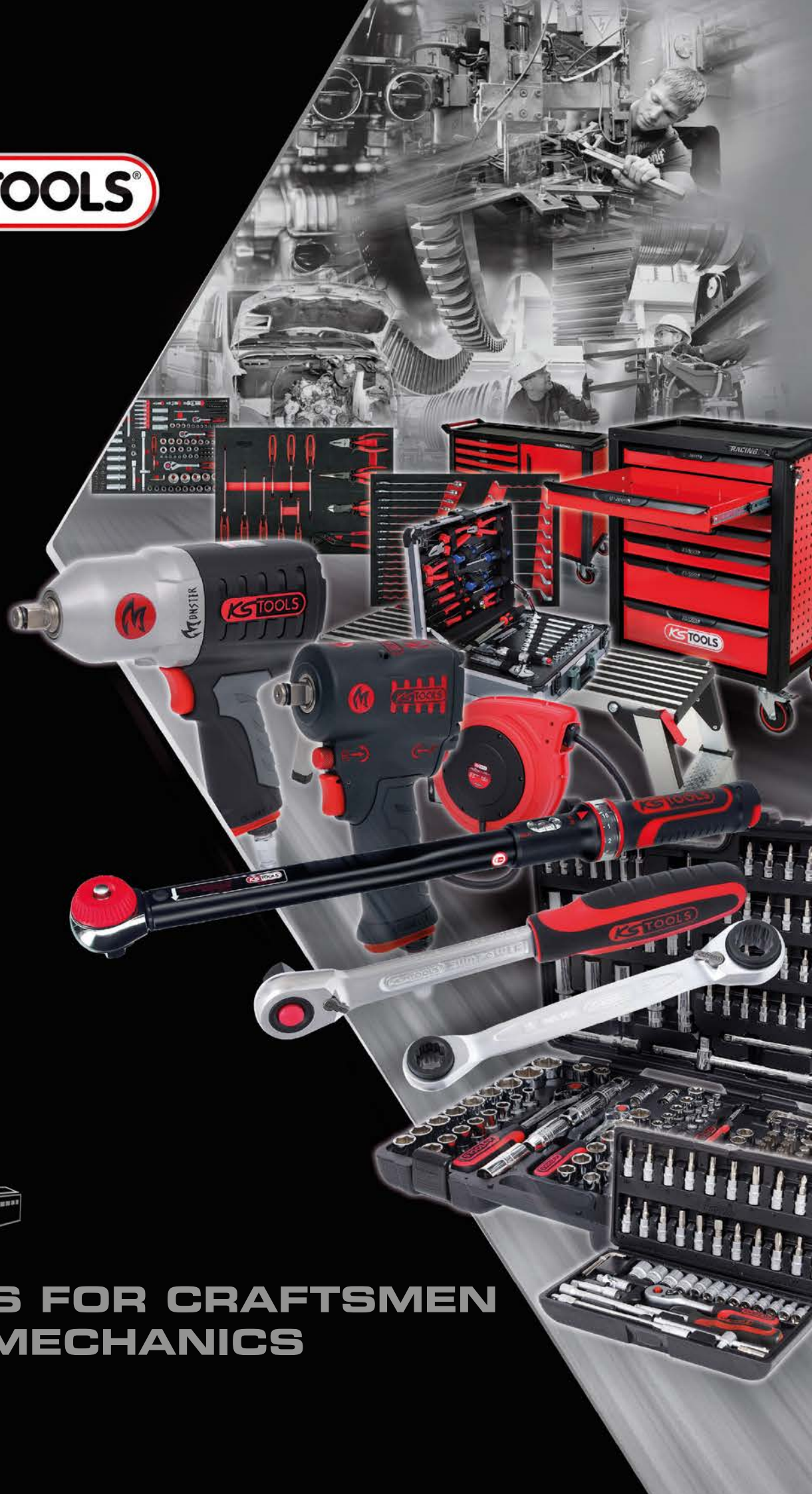


TOOLS FOR CRAFTSMEN AND MECHANICS

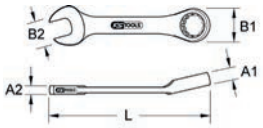
KS TOOLS®

Innovation is
our mission!

MINI COMBINATION SPANNERS

CHROME*plus*® combination spanner, stubby

- FlankTraction profile
- Jaw 15° offset
- Ring head 15° offset
- Mirror polished
- Chrome vanadium



	mm	A1 mm	A2 mm	B1 mm	B2 mm	L mm	g	
518.0001	4	5,0	5,0	12,5	16,5	80,0	10	
518.0002	4,5	5,5	5,0	12,5	16,5	80,0	10	
518.0003	5,0	5,5	5,0	12,8	16,8	80,0	10	
518.0004	5,5	5,5	5,0	13,0	17,0	90,0	13	
518.0005	6,0	5,8	5,0	13,0	17,0	90,0	13	
518.0006	7,0	5,8	5,0	13,5	17,8	100,0	20	
518.0007	8,0	5,9	5,2	13,5	17,8	100,0	20	
518.0008	9,0	6,0	5,2	14,2	18,9	110,0	27	
518.0010	10	7,5	5,8	16,1	22,2	95,0	37	
518.0011	11	7,8	6,1	17,9	23,9	100,0	45	
518.0012	12	7,8	6,6	19,1	25,5	104,0	51	
518.0013	13	9,1	7,0	19,9	27,1	109,0	54	
518.0014	14	9,4	7,6	21,8	29,2	114,0	71	
518.0015	15	9,6	7,8	22,5	30,1	120,0	76	
518.0016	16	9,8	7,9	24,1	32,8	124,0	88	
518.0017	17	10,8	8,7	26,1	35,8	130,0	115	
518.0018	18	11,0	9,1	27,0	36,7	134,0	118	
518.0019	19	11,9	9,9	28,6	38,1	140,0	148	

CHROME*plus*® combination spanner set, stubby

- FlankTraction profile
- Jaw 15° offset
- Ring head 15° offset
- Mirror polished
- Chrome vanadium

			g	
518.0040	7 pcs	10 - 11 - 12 - 13 - 14 - 17 - 19 mm	600	

GEAR*plus*® combination ratcheting spanner, stubby

- FlankTraction profile
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- Ratchet head offset at 15°
- With reversing lever
- High quality finish
- Chrome vanadium

	mm	A1 mm	A2 mm	B1 mm	B2 mm	L mm	g	
503.4631	8	6,5	4,0	16,6	16,7	90,0	30	
503.4632	9	6,9	4,4	18,4	18,8	93,0	40	
503.4633	10	7,3	4,8	20,0	20,8	95,0	45	
503.4634	11	7,7	5,2	21,8	23,0	103,0	50	
503.4635	12	8,2	5,5	22,7	25,0	106,0	55	
503.4636	13	8,6	5,8	24,7	27,1	108,0	60	
503.4637	14	9,0	6,2	27,0	29,2	115,0	70	
503.4638	15	9,4	6,5	28,3	31,3	119,0	90	
503.4639	16	10,0	6,8	30,0	33,4	123,0	100	
503.4640	17	10,3	7,2	31,8	35,5	127,0	110	
503.4641	18	10,7	7,7	32,6	37,6	131,0	120	
503.4642	19	11,2	8,2	33,8	39,7	139,0	150	

GEAR*plus*® combination ratcheting spanner set, stubby

- FlankTraction profile
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- Ratchet head offset at 15°
- With reversing lever
- High quality finish
- Chrome vanadium
- In durable plastic storage case

			kg	
503.4652	12 pcs	8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm	1,08	

GEAR*plus*® combination ratcheting spanner set, stubby

- FlankTraction profile
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- Ratchet head offset at 15°
- With reversing lever
- Square drive adaptor to DIN 3120 - ISO 1174 with ball lock
- For bits to DIN 3126 / C 6,3
- High quality finish
- Chrome vanadium
- In durable plastic storage case

1/4" 3/8" 1/2"

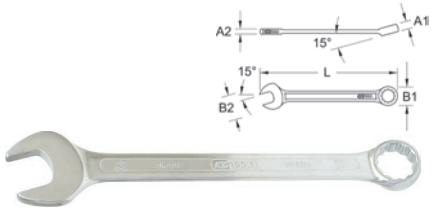
			kg	
503.4653	16 pcs	GEAR*plus*® combination ratcheting spanner set, stubby	1,35	

12 x		8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm
1 x		1/4“
3 x		1/4“ - 3/8“ - 1/2“

COMBINATION SPANNERS

Combination spanners, offset

- FlankTraction profile
- DIN 3113 Form A / ISO 3318 / ISO 7738
- Jaw 15° offset
- Ring head 15° offset
- Polished heads
- Matt finish
- Chrome vanadium



	mm		A1 mm	A2 mm	B1 mm	B2 mm	L mm	g	
517.0606	6		4,7	4,0	10,1	15,5	100,0	10	
517.0607	7		5,0	4,0	11,5	17,0	110,0	15	
517.0608	8		5,5	4,5	12,8	19,2	120,0	20	
517.0609	9		5,9	4,5	14,2	21,2	130,0	30	
517.0610	10		6,5	5,0	15,6	23,2	140,0	40	
517.0611	11		6,9	5,4	16,9	25,3	150,0	45	
517.0612	12		7,3	5,5	18,3	27,2	160,0	60	
517.0613	13		7,8	5,9	19,7	29,4	170,0	60	
517.0614	14		8,3	6,2	21,2	31,5	180,0	80	
517.0615	15		8,6	6,4	22,5	33,2	190,0	90	
517.0616	16		8,9	6,7	24,0	34,7	200,0	100	
517.0617	17		9,3	6,9	25,3	36,5	210,0	120	
517.0618	18		9,9	7,2	26,8	38,7	220,0	140	
517.0619	19		10,5	7,4	28,1	40,7	230,0	170	
517.0620	20		10,9	7,7	29,7	43,1	240,0	190	
517.0621	21		11,3	8,0	31,3	44,5	250,0	210	
517.0622	22		11,5	8,2	32,6	46,9	260,0	230	
517.0623	23		13,5	7,6	33,0	49,5	270,0	245	
517.0624	24		14,0	8,0	35,5	50,4	280,0	320	

	mm		A1 mm	A2 mm	B1 mm	B2 mm	L mm	g
517.0625	25		14,5	8,2	36,0	54,5	290,0	340
517.0626	26		15,0	8,5	37,0	56,5	300,0	350
517.0627	27		15,5	8,8	39,6	59,5	310,0	420
517.0628	28		16,0	9,0	40,0	60,0	320,0	440
517.0629	29		16,5	9,5	41,5	61,5	330,0	470
517.0630	30		17,0	10,1	43,7	61,8	340,0	500
517.0632	32		18,0	10,4	46,4	65,8	360,0	530
517.0634	34		20,0	10,0	49,7	66,0	420,0	675
517.0636	36		19,5	11,0	51,5	77,0	380,0	690
517.0638	38		21,5	13,0	56,0	76,0	450,0	1000
517.0641	41		22,0	11,0	58,5	87,0	440,0	750
517.0646	46		25,0	15,2	71,5	93,0	506,0	1640
517.0650	50		26,4	16,4	75,6	102,0	540,0	2200
517.1901		1/4"	5,0	3,9	9,8	15,7	100,0	20
517.1902		5/16"	5,9	4,4	12,7	19,0	120,0	22
517.1903		3/8"	6,4	4,5	14,1	20,9	130,0	34
517.1904		7/16"	7,4	5,2	16,9	25,4	150,0	45
517.1951		1/2"	8,4	5,8	19,7	29,3	170,0	55
517.1906		9/16"	8,9	6,1	21,1	31,2	180,0	78
517.1907		5/8"	9,8	6,6	24,0	34,5	200,0	104
517.1908		11/16"	10,3	6,9	25,4	37,3	210,0	102
517.1909		3/4"	11,1	7,3	28,2	40,4	230,0	130
517.1911		25/32"	11,4	7,5	29,6	42,3	240,0	172
517.1912		13/16"	11,7	7,7	31,0	44,2	250,0	168
517.1913		7/8"	12,0	7,9	32,3	46,6	260,0	176
517.1914		15/16"	12,7	8,3	35,1	50,1	280,0	240
517.1952		1"	13,0	8,5	36,5	52,8	290,0	270
517.1916		1.1/16"	13,6	8,9	39,2	55,9	310,0	330
517.1917		1.1/8"	13,9	9,1	40,6	57,8	320,0	330
517.1918		1.3/16"	14,6	9,5	43,4	62,6	340,0	430
517.1919		1.1/4"	15,2	9,9	46,6	66,9	360,0	510
517.1921		1.5/16"	15,2	10,0	46,0	66,0	340,0	775
517.1922		1.3/8"	18,4	13,0	52,0	74,0	390,0	1015
517.1923		1.7/16"	19,0	13,0	52,1	75,0	390,0	1015
517.1924		1.1/2"	19,0	13,0	55,5	75,0	390,0	1015

Combination spanners set, offset

- FlankTraction profile
- DIN 3113 Form A / ISO 3318 / ISO 7738
- Jaw 15° offset
- Ring head 15° offset
- Polished heads
- Matt finish
- Chrome vanadium

			kg
517.0045	5 pcs	8 - 10 - 13 - 17 - 19 mm	0,54

Combination spanners set, offset

- FlankTraction profile
- DIN 3113 Form A / ISO 3318 / ISO 7738
- Jaw 15° offset
- Ring head 15° offset
- Polished heads
- Matt finish
- Chrome vanadium

			kg
517.0048	8 pcs	8 - 9 - 10 - 11 - 13 - 14 - 17 - 19 mm	0,55

Combination spanners set, offset

- FlankTraction profile
- DIN 3113 Form A / ISO 3318 / ISO 7738
- Jaw 15° offset
- Ring head 15° offset
- Polished heads
- Matt finish
- Chrome vanadium

			kg
517.0080	10 pcs	8 - 10 - 11 -12 - 13 - 14 - 15 - 17 - 19 - 22 mm	1,02

Combination spanners set, offset

- FlankTraction profile
- DIN 3113 Form A / ISO 3318 / ISO 7738
- Jaw 15° offset
- Ring head 15° offset
- Polished heads
- Matt finish
- Chrome vanadium

			kg
517.0052	12 pcs	8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm	0,88

Combination spanners set, offset

- FlankTraction profile
- DIN 3113 Form A / ISO 3318 / ISO 7738
- Jaw 15° offset
- Ring head 15° offset
- Polished heads
- Matt finish
- Chrome vanadium

			kg
517.0085	12 pcs	10 - 11 - 12 - 13 - 14 - 17 - 19 - 22 - 24 - 27 - 30 - 32 mm	2,53

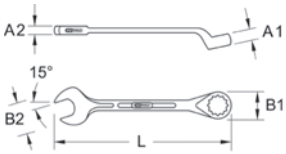
Combination spanners set, offset

- FlankTraction profile
- DIN 3113 Form A / ISO 3318 / ISO 7738
- Jaw 15° offset
- Ring head 15° offset
- Polished heads
- Matt finish
- Chrome vanadium

			kg
517.0043	21 pcs	6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 24 - 27 - 30 - 32 mm	3,80

Combination spanners, offset

- FlankTraction profile
- DIN 3113 Form B / ISO 3318 / ISO 7738
- Jaw 15° offset
- Ring head 70° offset
- Ring head 10° angled
- Matt finish
- Chrome vanadium



	mm		A1 mm	A2 mm	B1 mm	B2 mm	L mm	kg
517.1606	6		5,5	3,7	11,0	15,5	110,0	0,02
517.1607	7		6,0	3,7	12,5	17,5	120,0	0,02
517.1608	8		6,5	4,3	13,8	20,0	130,0	0,03
517.1609	9		7,0	4,3	15,0	21,5	140,0	0,04
517.1610	10		7,5	4,7	16,5	23,5	150,0	0,04
517.1611	11		8,0	5,1	18,0	25,0	158,0	0,05
517.1612	12		8,5	5,3	19,6	27,0	165,0	0,07
517.1613	13		7,0	5,5	21,2	29,5	175,0	0,08
517.1614	14		9,5	5,7	23,0	31,5	185,0	0,09
517.1615	15		10,0	6,1	24,4	33,5	195,0	0,10
517.1616	16		10,5	6,5	26,0	35,5	210,0	0,12
517.1617	17		11,0	6,9	27,6	37,0	225,0	0,14
517.1618	18		11,5	7,3	28,8	40,0	240,0	0,16
517.1619	19		12,0	7,7	30,5	42,5	255,0	0,18
517.1620	20		12,5	8,1	31,5	44,0	270,0	0,20
517.1621	21		13,0	8,5	33,0	45,5	285,0	0,24
517.1622	22		13,5	8,9	34,5	47,5	300,0	0,28
517.1623	23		14,5	9,5	37,0	52,0	320,0	0,38
517.1624	24		14,5	9,5	37,0	52,0	320,0	0,38
517.1625	25		15,5	10,3	39,0	54,5	350,0	0,44
517.1626	26		15,5	10,3	39,0	54,5	350,0	0,44
517.1627	27		16,5	11,3	42,0	60,5	380,0	0,49
517.1628	28		16,5	11,3	42,0	60,5	380,0	0,49
517.1629	29		17,5	12,5	45,0	64,0	410,0	0,68
517.1630	30		17,5	12,5	45,0	64,0	410,0	0,68
517.1632	32		18,5	12,5	49,0	66,0	430,0	0,72
517.1636	36		22,0	12,5	55,0	77,0	460,0	1,07
517.1638	38		22,0	12,5	55,0	77,0	465,0	1,08
517.1641	41		24,5	13,5	60,0	85,0	510,0	1,26
517.1646	46		25,5	16,0	66,0	93,0	530,0	1,70

	mm		A1 mm	A2 mm	B1 mm	B2 mm	L mm	kg
517.1650	50		26,5	16,5	74,0	104,0	560,0	2,20
517.1655	55		28,3	19,0	82,0	112,0	570,0	2,90
517.1660	60		31,0	20,0	90,0	123,0	660,0	3,60
517.1665	65		33,0	22,0	98,0	133,0	710,0	4,55
517.1670	70		35,0	24,0	105,0	143,0	760,0	5,80
517.1675	75		38,0	26,0	110,0	153,0	810,0	6,65
517.1680	80		41,0	28,0	119,0	163,0	860,0	8,50
517.2601		1/4"	5,5	3,7	11,0	15,5	110,0	0,02
517.2602		5/16"	6,5	4,3	13,8	20,0	130,0	0,03
517.2603		3/8"	7,5	4,7	16,5	23,5	150,0	0,04
517.2604		7/16"	8,0	5,1	18,0	25,0	158,0	0,05
517.2651		1/2"	9,0	5,5	21,2	29,5	175,0	0,08
517.2606		9/16"	9,5	5,7	23,0	31,5	185,0	0,09
517.2607		5/8"	10,5	6,5	26,0	35,5	210,0	0,12
517.2608		11/16"	11,0	6,9	27,6	37,0	225,0	0,14
517.2609		3/4"	12,0	7,7	30,5	42,5	255,0	0,18
517.2611		25/32"	12,5	8,1	31,5	44,0	270,0	0,20
517.2612		13/16"	13,0	8,5	33,0	45,5	285,0	0,24
517.2613		7/8"	13,5	8,9	34,5	47,5	300,0	0,28
517.2614		15/16"	14,5	9,5	37,0	52,0	320,0	0,38
517.2652		1"	15,5	10,3	39,0	54,5	350,0	0,44
517.2616		1.1/16"	16,5	11,0	42,0	60,5	380,0	0,49
517.2617		1.1/8"	16,5	11,3	42,0	60,5	380,0	0,49
517.2618		1.3/16"	17,5	12,5	45,0	64,0	410,0	0,68
517.2619		1.1/4"	16,5	11,3	42,0	60,5	380,0	0,49
517.2621		1.5/16"	18,5	12,5	49,0	66,0	430,0	0,72
517.2622		1.3/8"	22,0	12,5	55,0	77,0	460,0	1,07
517.2623		1.7/16"	23,0	12,5	55,0	77,0	461,0	1,07
517.2624		1.1/2"	22,0	12,5	55,0	77,0	465,0	1,08
517.2653		1.9/16"	12,5	12,5	55,0	77,0	465,0	1,08
517.2626		1.5/8"	13,5	13,5	60,0	85,0	510,0	1,26
517.2627		1.11/16"	13,5	13,5	60,0	85,0	510,0	1,26
517.2628		1.3/4"	16,0	16,0	66,0	93,0	530,0	1,70
517.2629		1.13/16"	16,0	16,0	66,0	93,0	530,0	1,70
517.2631		1.7/8"	16,0	16,0	66,0	93,0	530,0	1,70
517.2632		1.15/16"	16,5	16,5	74,0	104,0	560,0	2,20
517.2633		2"	16,5	16,5	74,0	104,0	560,0	2,20
517.2634		2.1/16"	16,5	16,5	74,0	104,0	560,0	2,20
517.2635		2.1/8"	16,5	16,5	74,0	104,0	560,0	2,20
517.2636		2.3/16"	19,0	19,0	82,0	112,0	570,0	2,90
517.2637		2.1/4"	19,0	19,0	82,0	112,0	570,0	2,90
517.2638		2.5/16"	19,0	19,0	82,0	112,0	570,0	2,90
517.2639		2.3/8"	20,0	20,0	90,0	123,0	660,0	3,60
517.2641		2.7/16"	20,0	20,0	90,0	123,0	660,0	3,60
517.2642		2.1/2"	22,0	22,0	98,0	133,0	710,0	4,55
517.2643		2.9/16"	22,0	22,0	98,0	133,0	710,0	4,55
517.2644		2.3/4"	24,0	24,0	105,0	143,0	760,0	5,80
517.2645		3"	26,0	26,0	110,0	153,0	810,0	6,65
517.2646		3.1/8"	28,0	28,0	119,0	163,0	860,0	8,50
517.2647		3.1/4"	28,0	28,0	119,0	163,0	860,0	8,50

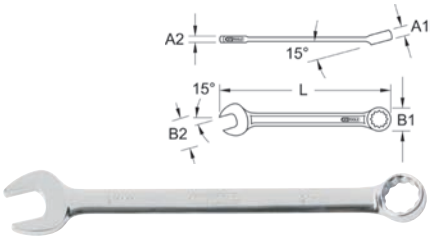
Combination spanners set, offset

- FlankTraction profile
- DIN 3113 Form B / ISO 3318 / ISO 7738
- Jaw 15° offset
- Ring head 70° offset
- Ring head 10° angled
- Matt finish
- Chrome vanadium

			kg
517.0090	8 pcs	8 - 10 - 12 - 13 - 14 - 17 - 19 - 22 mm	0,92
517.0095	12 pcs	6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 17 - 19 - 22 mm	1,00
517.0099	25 pcs	6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21- 22 - 23 - 24 - 25 - 26 - 27 - 28 - 30 - 32 mm	5,96

CHROME*plus*® Combination spanner, offset

- FlankTraction profile
- DIN 3113 / ISO 3318 / ISO 7738
- Jaw 15° offset
- Ring head 15° offset
- Mirror polished
- Chrome vanadium



	mm		A1 mm	A2 mm	B1 mm	B2 mm	L mm	g
518.0606	6		4,6	4,3	10,5	13,7	128,0	21
518.0607	7		5,1	4,6	11,6	15,2	138,0	25
518.0608	8		5,7	4,7	12,6	18,9	148,0	32
518.0609	9		8,1	5,8	15,6	20,6	154,0	46
518.0610	10		8,3	6,0	16,4	21,5	162,0	48
518.0611	11		8,5	6,8	17,8	23,0	167,0	62
518.0612	12		8,6	6,9	18,3	25,6	174,0	70
518.0613	13		8,8	7,1	20,3	26,3	178,0	71
518.0614	14		9,6	7,7	22,1	28,9	190,0	95
518.0617	17		11,0	8,8	26,7	36,3	225,0	159
518.0619	19		11,2	9,2	28,3	38,6	248,0	176
518.0615	15		10,7	8,5	24,5	32,6	205,0	124
518.0616	16		10,7	8,5	24,5	32,6	205,0	124
518.0618	18		11,2	9,2	28,3	38,6	248,0	176
518.0620	20		12,4	9,8	30,5	42,5	270,0	233
518.0621	21		12,4	9,8	30,5	42,5	270,0	233
518.0622	22		12,9	10,4	33,3	46,5	292,0	335
518.0624	24		13,9	10,8	35,4	48,5	314,0	395
518.0627	27		15,4	12,3	38,4	53,5	359,0	512
518.0630	30		15,8	12,9	43,1	57,2	390,0	662
518.0632	32		16,4	13,0	45,1	62,0	425,0	800
518.3001		1/4"	4,6	4,3	10,5	13,7	128,0	21
518.3002		5/16"	5,7	4,7	12,6	18,9	148,0	32
518.3003		3/8"	8,1	5,8	15,6	20,6	154,0	46
518.3004		7/16"	8,5	6,8	17,8	23,0	167,0	62
518.3005		1/2"	8,8	7,1	20,3	26,3	178,0	71
518.3006		9/16"	9,6	7,7	22,1	28,9	190,0	95
518.3007		5/8"	10,7	8,5	24,5	32,6	205,0	124
518.3008		11/16"	11,0	8,8	26,7	36,3	225,0	155
518.3009		3/4"	11,2	9,2	28,3	38,6	248,0	176
518.3010		13/16"	12,4	9,8	30,5	42,5	270,0	233
518.3011		7/8"	12,9	10,4	33,3	46,5	292,0	287
518.3012		15/16"	13,9	10,8	35,4	48,5	314,0	332
518.3013		1"	14,4	11,4	36,5	50,4	336,0	422
518.3014		1.1/16"	15,4	12,3	38,4	53,5	359,0	512
518.3015		1.1/8"	15,8	12,9	43,1	57,2	390,0	664
518.3016		1.1/4"	16,4	13,0	45,1	62,0	425,0	847

CHROME*plus*® combination spanner set, offset

- FlankTraction profile
- DIN 3113 / ISO 3318 / ISO 7738
- Jaw 15° offset
- Ring head 15° offset
- Mirror polished
- Chrome vanadium

			g
518.0640	9 pcs	8 - 9 - 10 - 11 - 12 - 13 - 14 - 17 - 19 mm	930

CHROME*plus*® Combination spanner set, offset

- FlankTraction profile
- DIN 3113 / ISO 3318 / ISO 7738
- Jaw 15° offset
- Ring head 15° offset
- Mirror polished
- Chrome vanadium

			kg
518.0641	11 pcs	8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 17 - 19 - 22 mm	1,40

CHROME*plus*® Combination spanner set, offset

- FlankTraction profile
- DIN 3113 / ISO 3318 / ISO 7738
- Jaw 15° offset
- Ring head 15° offset
- Mirror polished
- Chrome vanadium

			kg
518.0643	13 pcs	6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 17 - 19 - 22 mm	1,40

CHROME*plus*® Combination spanner set, offset

- FlankTraction profile
- DIN 3113 / ISO 3318 / ISO 7738
- Jaw 15° offset
- Ring head 15° offset
- Mirror polished
- Chrome vanadium

			kg
518.0644	4 pcs	24 - 27 - 30 - 32 mm	2,50

CHROME*plus*® Combination spanner set, offset

- FlankTraction profile
- DIN 3113 / ISO 3318 / ISO 7738
- Jaw 15° offset
- Ring head 15° offset
- Mirror polished
- Chrome vanadium

			kg
518.3000	11 pcs	1/4" - 5/16" - 3/8" - 7/16" - 1/2" - 9/16" - 5/8" - 11/16" - 3/4" - 13/16" - 7/8"	1,30

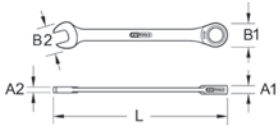
CHROME*plus*® Combination spanner set, offset

- FlankTraction profile
- DIN 3113 / ISO 3318 / ISO 7738
- Jaw 15° offset
- Ring head 15° offset
- Mirror polished
- Chrome vanadium

			kg
518.3020	7 pcs	3/8" - 7/16" - 1/2" - 9/16" - 5/8" - 11/16" - 3/4"	0,73

GEAR*plus*® Combination ratcheting spanner

- FlankTraction profile
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- Straight form
- Exact gearing with 72 teeth
- High quality finish
- Chrome vanadium



	mm		A1 mm	A2 mm	B1 mm	B2 mm	L mm	kg
503.42055	5,5		6,3	3,9	14,0	15,0	127,5	0,02
503.4206	6		6,3	3,9	14,0	15,0	128,0	0,03
503.4207	7		6,5	4,0	16,8	16,7	140,0	0,03
503.4208	8		6,5	4,0	16,8	16,7	140,0	0,03
503.4209	9		6,9	4,4	18,8	18,7	149,0	0,04
503.4210	10		7,3	4,8	20,8	20,8	158,0	0,05
503.4211	11		7,7	5,2	21,8	23,0	165,0	0,06
503.4212	12		8,2	5,5	22,8	24,6	171,0	0,07
503.4213	13		8,6	5,8	24,8	26,8	178,0	0,08
503.4214	14		9,0	6,2	27,8	29,0	190,0	0,11
503.4215	15		9,4	6,5	28,8	31,0	199,0	0,12
503.4216	16		9,9	6,8	30,8	33,0	208,0	0,15
503.4217	17		10,3	7,2	31,8	35,5	225,0	0,18
503.4218	18		10,7	7,7	32,8	37,5	236,0	0,21
503.4219	19		11,2	8,2	33,8	39,4	247,0	0,24
503.4221	21		13,0	9,0	40,0	45,8	289,0	0,34
503.4222	22		13,0	9,0	40,0	45,8	289,0	0,35
503.4224	24		14,5	10,0	46,0	51,8	322,0	0,47
503.4227	27		15,5	10,5	52,0	56,4	358,0	0,58
503.4228	30		17,0	11,4	58,0	62,7	401,0	0,86
503.4229	32		17,5	12,5	62,0	66,4	424,0	1,06
503.4230	34		17,5	13,0	62,0	70,0	459,0	1,17
503.4252	36		18,0	13,4	66,0	78,0	489,0	1,30
503.4253	38		18,0	13,4	66,0	78,0	489,0	1,40
503.4248	41		19,5	16,5	71,0	86,0	565,0	2,00
503.4102		5/16"	6,5	4,0	16,8	16,7	140,0	0,03
503.4103		3/8"	7,3	4,8	20,8	20,8	158,0	0,04
503.4104		7/16"	7,7	5,2	21,8	23,0	165,0	0,05
503.4105		1/2"	8,6	5,8	24,8	26,8	178,0	0,07
503.4106		9/16"	9,0	6,2	27,8	29,0	190,0	0,11
503.4107		5/8"	9,9	6,8	30,8	33,0	208,0	0,13
503.4108		11/16"	10,3	7,2	31,8	35,5	225,0	0,17
503.4109		3/4"	11,2	8,2	33,8	39,4	247,0	0,22

GEAR*plus*® Combination ratcheting spanner set

- FlankTraction profile
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- Straight form
- Exact gearing with 72 teeth
- High quality finish
- Chrome vanadium

			kg
503.4204	4 pcs	10 - 13 - 17 - 19 mm	650

GEAR*plus*® Combination ratcheting spanner set

- FlankTraction profile
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- Straight form
- Exact gearing with 72 teeth
- Mirror polished
- Chrome vanadium

			kg
503.4270	4 pcs	24 - 27 - 30 - 32 mm	3,07

GEAR*plus*® ratchet combination spanner set

- FlankTraction profile
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- Straight form
- Exact gearing with 72 teeth
- High quality finish
- Chrome vanadium

			kg
503.4255	5 pcs	8 - 10 - 13 - 17 - 19 mm	670

GEAR*plus*® Combination ratcheting spanner set

- FlankTraction profile
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- Straight form
- Exact gearing with 72 teeth
- High quality finish
- Chrome vanadium

			kg
503.4202	5 pcs	5/16" - 3/8" - 1/2" - 11/16" - 3/4"	690

GEAR*plus*® combination ratcheting spanner set

- FlankTraction profile
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- Straight form
- Exact gearing with 72 teeth
- High quality finish
- Chrome vanadium

			kg
503.4250	10 pcs	8-10-11-12-13-14-16-17-18-19 mm	1,24

GEAR*plus*® combination ratcheting spanner set

- FlankTraction profile
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- Straight form
- Exact gearing with 72 teeth
- High quality finish
- Chrome vanadium
- In durable plastic storage case

			g
503.4259	6 pcs	8 - 10 - 12 - 13 - 17 - 19 mm	970

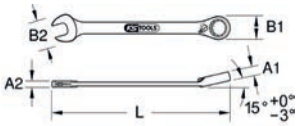
GEAR*plus*® combination ratcheting spanner set

- FlankTraction profile
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- Straight form
- Exact gearing with 72 teeth
- High quality finish
- Chrome vanadium
- In durable plastic storage case

			kg
503.4265	12 pcs	8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm	1,88

GEAR*plus*® reversing combination ratcheting spanner

- FlankTraction profile
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- Ratchet head offset at 15°
- Exact gearing with 72 teeth
- With reversing lever
- High quality finish
- Chrome vanadium



	mm		A1 mm	A2 mm	B1 mm	B2 mm	L mm	g
503.4606	6		6,3	3,9	14,0	15,0	127,5	30
503.4607	7		6,5	4,6	16,4	16,2	140,0	30
503.4608	8		6,5	4,6	16,4	16,2	140,0	30
503.4609	9		6,9	4,9	18,3	18,2	150,0	40
503.4610	10		7,3	5,3	20,0	20,5	159,0	50
503.4611	11		7,7	5,6	21,4	22,6	166,0	60
503.4612	12		8,2	6,0	22,6	24,6	172,0	70
503.4613	13		8,6	6,4	24,5	26,7	178,0	80
503.4614	14		9,0	6,8	27,0	28,8	191,0	100
503.4615	15		9,4	7,0	28,2	30,8	200,0	120
503.4616	16		9,9	7,2	30,3	33,2	208,0	150
503.4617	17		10,3	7,7	31,6	35,1	225,0	160
503.4618	18		10,7	8,2	32,3	37,2	236,0	190
503.4619	19		11,2	8,8	33,7	39,3	248,0	220
503.4621	21		13,0	9,0	40,1	46,2	290,0	245
503.4622	22		13,0	9,0	40,1	46,2	290,0	360
503.4624	24		14,5	10,0	46,5	51,5	323,0	470
503.4627	27		15,5	10,5	52,5	56,5	357,0	660
503.4628	30		17,0	11,4	58,5	62,7	400,0	860
503.4629	32		17,5	12,5	62,5	66,4	423,0	1050
503.4630	34		17,5	13,0	62,5	70,6	460,0	1200
503.4643	36		18,0	13,4	65,8	79,0	488,0	1300
503.4644	38		18,0	13,4	65,8	79,0	488,0	1400
503.4648	41		19,5	16,5	71,0	86,0	565,0	2000
503.4681		5/16"	6,5	4,0	16,6	16,7	145,0	30
503.4683		3/8"	7,3	4,8	20,0	20,8	159,0	60
503.4684		7/16"	7,7	5,2	21,8	23,0	165,0	70
503.4685		1/2"	8,6	5,8	24,7	27,1	178,0	80
503.4686		9/16"	9,0	6,5	27,0	29,2	190,0	100
503.4687		5/8"	9,9	6,8	30,0	33,4	208,0	140
503.4688		11/16"	10,3	7,2	31,8	35,5	225,0	170
503.4689		3/4"	11,2	8,2	33,8	39,7	248,0	230

GEAR*plus*® combination ratcheting spanner set

- FlankTraction profile
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- Straight form
- Exact gearing with 72 teeth
- Square drive adaptor to DIN 3120 - ISO 1174 with ball lock
- For bits to DIN 3126 / C 6,3
- High quality finish
- Chrome vanadium
- In durable plastic storage case

1/4" 3/8" 1/2"

			kg
503.4260	10 pcs	GEAR*plus*® combination ratcheting spanner set	1,06
6 x		8 - 10 - 12 - 13 - 17 - 19 mm	
1 x		1/4“	
3 x		1/4“ - 3/8“ - 1/2“	

GEAR*plus*® combination ratcheting spanner set

- FlankTraction profile
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- Straight form
- Exact gearing with 72 teeth
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- For bits to DIN 3126 / C 6,3
- High quality finish
- Chrome vanadium
- In durable plastic storage case

1/4" 3/8" 1/2"

			kg
503.4266	16 pcs	GEAR*plus*® combination ratcheting spanner set	1,73
12 x		8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm	
1 x		1/4“	
3 x		1/4“ - 3/8“ - 1/2“	

GEAR*plus*® reversing combination ratcheting spanner set

- FlankTraction profile
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- Ratchet head offset at 15°
- Exact gearing with 72 teeth
- With reversing lever
- High quality finish
- Chrome vanadium

			g
503.4604	4 pcs	10 - 13 - 17 - 19 mm	650

GEAR*plus*® reversing combination ratcheting spanner set

- FlankTraction profile
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- Ratchet head offset at 15°
- Exact gearing with 72 teeth
- With reversing lever
- High quality finish
- Chrome vanadium

			g
503.4605	5 pcs	8 - 10 - 13 - 17 - 19 mm	700

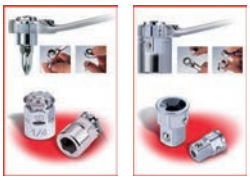
GEAR*plus*® Reversing combination ratcheting spanner set

- FlankTraction profile
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- Ratchet head offset at 15°
- Exact gearing with 72 teeth
- With reversing lever
- High quality finish
- Chrome vanadium

			g
503.4602	5 pcs	5/16" - 3/8" - 1/2" - 11/16" - 3/4"	600

GEAR*plus*® reversing combination ratcheting spanner set

- FlankTraction profile
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- Ratchet head offset at 15°
- Exact gearing with 72 teeth
- With reversing lever
- Square drive adaptor to DIN 3120 - ISO 1174 with ball lock
- For bits to DIN 3126 / C 6,3
- High quality finish
- Chrome vanadium
- In durable plastic storage case



1/4" 3/8" 1/2"

			kg
503.4650	9 pcs	GEAR*plus*® reversing combination ratcheting spanner set	1,10

5 x		8 - 10 - 13 - 17 - 19 mm
1 x		1/4"
3 x		1/4" - 3/8" - 1/2"

GEAR*plus*® reversing combination ratcheting spanner set

- FlankTraction profile
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- Ratchet head offset at 15°
- Exact gearing with 72 teeth
- With reversing lever
- High quality finish
- Chrome vanadium
- In durable plastic storage case

			kg
503.4646	6 pcs	8 - 10 - 12 - 13 - 17 - 19 mm	1,04

GEAR*plus*® reversing combination ratcheting spanner set

- FlankTraction profile
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- Ratchet head offset at 15°
- Exact gearing with 72 teeth
- With reversing lever
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- For bits to DIN 3126 / C 6,3
- High quality finish
- Chrome vanadium
- In durable plastic storage case

1/4" 3/8" 1/2"

			kg
503.4647	10 pcs	GEAR*plus*® reversing combination ratcheting spanner set	1,11

6 x		8 - 10 - 12 - 13 - 17 - 19 mm
1 x		1/4"
3 x		1/4" - 3/8" - 1/2"

GEAR*plus*® reversing combination ratcheting spanner set

- FlankTraction profile
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- Ratchet head offset at 15°
- Exact gearing with 72 teeth
- With reversing lever
- High quality finish
- Chrome vanadium
- In durable plastic storage case

			kg
503.4665	12 pcs	8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm	1,71

GEAR*plus*® reversing combination ratcheting spanner set

- FlankTraction profile
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- Ratchet head offset at 15°
- Exact gearing with 72 teeth
- With reversing lever
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- For bits to DIN 3126 / C 6,3
- High quality finish
- Chrome vanadium
- In durable plastic storage case

1/4" 3/8" 1/2"

			kg
503.4666	16 pcs	GEAR*plus*® reversing combination ratcheting spanner set	1,79

12 x		8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm
1 x		1/4"
3 x		1/4" - 3/8" - 1/2"

GEAR*plus*® reversing combination ratcheting spanner

- FlankTraction profile
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- Ratchet head offset at 15°
- With reversing lever
- Ring stop fuction
- High quality finish
- Chrome vanadium

	mm	A1 mm	A2 mm	B1 mm	B2 mm	L mm	g
503.4908	8	6,5	4,6	16,6	16,7	140,0	40
503.4909	9	6,9	4,9	18,4	18,8	150,0	45
503.4910	10	7,3	5,3	20,0	20,8	159,0	50
503.4911	11	7,7	5,6	21,8	23,0	165,0	60
503.4912	12	8,2	6,0	22,7	25,0	172,0	70
503.4913	13	8,6	6,4	24,7	27,1	178,0	80
503.4914	14	9,0	6,8	27,0	29,2	191,0	100
503.4915	15	9,4	7,0	28,3	31,1	200,0	120
503.4916	16	9,9	7,2	30,0	33,4	208,0	140
503.4917	17	10,3	7,7	31,8	35,5	226,0	170
503.4918	18	10,7	8,2	32,6	37,6	237,0	200
503.4919	19	11,2	8,8	33,8	39,7	248,0	210

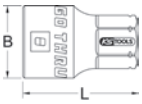
GEAR*plus*® reversing combination ratcheting spanner set

- FlankTraction profile
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- Ratchet head offset at 15°
- With reversing lever
- High quality finish
- Chrome vanadium
- In durable plastic storage case

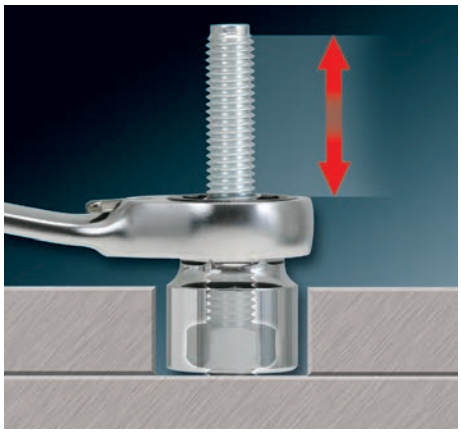
			kg
503.4955	5 pcs	8 - 10 - 13 - 17 - 19 mm	0,66

GEAR*plus*® Socket adapter with go through

- FlankTraction profile
- With go through function
- Suitable for ring stop spanners
- High quality finish
- Chrome vanadium



	mm	B mm	L mm	g
503.4978	8	12,0	19,8	10
503.4979	9	12,0	21,2	10
503.4980	10	15,0	22,6	10
503.4981	11	16,2	22,9	10
503.4982	12	17,4	24,5	20
503.4983	13	18,7	25,8	20
503.4984	14	19,9	26,1	20
503.4985	15	20,8	28,0	30
503.4986	16	22,6	29,5	30
503.4987	17	23,7	30,6	30
503.4988	18	24,5	32,0	40
503.4989	19	26,1	33,5	50



GEAR*plus*® reversing combination ratcheting spanner set

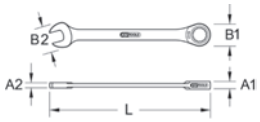
- FlankTraction profile
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- Ratchet head offset at 15°
- With reversing lever
- Versatile sockets with go through function
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- For bits to DIN 3126 / C 6,3
- High quality finish
- Chrome vanadium
- In durable plastic storage case

1/4" 3/8" 1/2" 5/16" 10 mm

			kg
503.4960	30 pcs	GEAR*plus*® reversing combination ratcheting spanner set	2,43
12 x		8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm	
12 x		8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm	
3 x		1/4" - 5/16" - 10 mm	
3 x		1/4" - 3/8" - 1/2"	

DUO GEAR*plus*® combination spanner set with ratchet mechanism in ring and open jaw

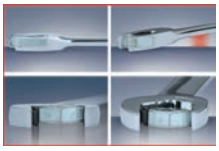
- Open end side with innovative ratchet mechanism
- FlankTraction profile
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- Straight form
- Exact gearing with 72 teeth
- High quality finish
- Chrome vanadium



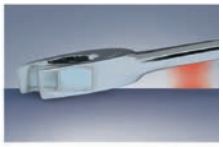
	mm	A1 mm	A2 mm	B1 mm	B2 mm	L mm	Nm	Nm	g
503.5208	8	6,5	4,1	16,4	16,2	140,0	15,0	36,0	30
503.5209	9	6,9	4,3	18,3	18,3	150,0	21,1	48,0	40
503.5210	10	7,3	4,8	20,0	20,0	159,0	31,1	85,2	50
503.5211	11	7,7	5,1	21,4	21,4	166,0	46,1	96,0	60
503.5212	12	8,2	5,3	22,6	22,6	172,0	49,1	109,2	70
503.5213	13	8,6	5,9	24,5	24,5	178,0	62,1	138,0	80
503.5214	14	9,0	6,3	27,0	27,0	191,0	86,0	189,6	110
503.5215	15	9,4	6,6	28,2	28,2	200,0	104,1	240,0	120
503.5216	16	9,9	6,9	30,3	30,3	208,0	124,1	297,6	150
503.5217	17	10,3	7,3	31,6	31,6	225,0	139,1	320,4	170
503.5218	18	10,7	7,8	32,3	32,3	236,0	155,1	364,8	210
503.5219	19	11,2	8,3	33,7	33,7	248,0	186,1	387,6	218
503.5221	21	13,0	8,8	40,1	46,2	290,0	248,1	446,4	340
503.5222	22	13,0	8,8	40,1	46,2	290,0	279,1	489,6	340
503.5224	24	14,5	9,8	46,5	51,5	323,0	341,2	610,8	470
503.5227	27	15,5	10,4	52,9	56,1	352,0	432,0	805,2	650
503.5228	30	17,1	11,2	57,6	62,5	396,0	570,0	954,0	875
503.5229	32	17,6	12,1	61,9	66,2	418,0	650,0	1086,0	1035

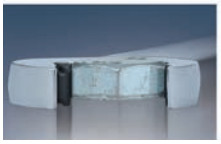
DUO GEAR*plus*® combination spanner set with ratchet mechanism in ring and open jaw

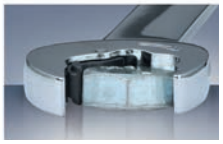
- Open end side with innovative ratchet mechanism
- FlankTraction profile
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- Straight form
- Exact gearing with 72 teeth
- High quality finish
- Chrome vanadium
- In durable plastic storage case



			kg
503.5205	5 pcs	8 - 10 - 13 - 17 - 19 mm	0,66







DUO GEAR*plus*® combination spanner with ratchet mechanism in ring and open jaw, reversible

- Open end side with innovative ratchet mechanism
- FlankTraction profile
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- Ring head 15° offset
- With reversing lever
- Exact gearing with 72 teeth
- High quality finish
- Chrome vanadium

	mm	A1 mm	A2 mm	B1 mm	B2 mm	L mm	Nm	Nm	g
503.5908	8	6,5	4,1	16,4	16,2	140,0	15,0	36,0	40
503.5909	9	6,9	4,3	18,3	18,2	150,0	21,1	48,0	45
503.5910	10	7,3	4,8	20,0	20,5	159,0	31,1	85,2	50
503.5911	11	7,7	5,1	21,4	22,6	166,0	46,1	96,0	60
503.5912	12	8,2	5,3	22,6	24,6	172,0	49,1	109,2	70
503.5913	13	8,6	5,9	24,5	26,7	178,0	62,1	138,0	80
503.5914	14	9,0	6,3	27,0	28,8	191,0	86,0	189,6	100
503.5915	15	9,4	6,6	28,2	30,8	200,0	104,1	240,0	120
503.5916	16	9,9	6,9	30,3	33,2	208,0	124,1	297,6	140
503.5917	17	10,3	7,3	31,6	35,1	225,0	139,1	320,4	170
503.5918	18	10,7	7,8	32,3	37,2	236,0	155,1	364,8	200
503.5919	19	11,2	8,3	33,7	39,3	248,0	186,1	387,6	210
503.5921	21	13,0	8,8	40,1	46,2	290,0	248,1	446,4	365
503.5922	22	13,0	8,8	40,0	46,2	290,0	279,1	489,6	375
503.5924	24	14,5	9,8	46,5	51,5	323,0	341,2	610,8	470
503.5927	27	15,5	10,4	52,9	56,1	352,0	432,0	805,2	650
503.5928	30	17,1	11,2	57,6	62,5	396,0	570,0	954,0	875
503.5929	32	17,6	12,1	61,9	66,2	418,0	650,0	1086,0	1035

DUO GEAR*plus*® combination spanner set with ratchet mechanism in ring and open jaw, reversible

- Open end side with innovative ratchet mechanism
- FlankTraction profile
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- Ring head 15° offset
- With reversing lever
- Exact gearing with 72 teeth
- High quality finish
- Chrome vanadium
- In durable plastic storage case

			kg
503.5905	5 pcs	8 - 10 - 13 - 17 - 19 mm	0,66

DUO GEARplus® Combination ratchet wrench with ratchet function, reversible

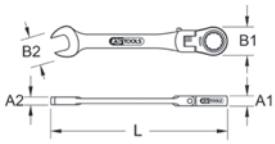
- Open end side with innovative ratchet mechanism
- FlankTraction profile
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- Ring head 15° offset
- With reversing lever
- Exact gearing with 72 teeth
- High quality finish
- Chrome vanadium

			kg
503.5950	10 pcs	8 - 10 - 11 - 12 - 13 - 14 - 16 - 17 - 18 - 19 mm	1,22

FLEXIBLE COMBINATION SPANNERS

GEAR*plus*® flexible locking combination ratcheting spanner

- FlankTraction profile
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- With flexible locking head
- Exact gearing with 72 teeth
- 180° revolving head
- High quality finish
- Chrome vanadium



	mm	A1 mm	A2 mm	B1 mm	B2 mm	L mm	g
503.4808	8	6,5	4,3	16,7	16,2	127,0	30
503.4809	9	6,9	4,6	18,6	18,2	131,5	40
503.4810	10	7,3	5,0	20,0	20,3	136,0	50
503.4811	11	7,7	5,4	21,8	22,5	141,0	60
503.4812	12	8,2	5,8	23,0	24,3	147,5	70
503.4813	13	8,6	6,1	25,2	26,8	154,0	80
503.4814	14	9,0	6,4	26,8	28,7	160,0	100
503.4815	15	9,4	6,9	28,3	30,5	169,0	120
503.4816	16	9,9	7,2	29,8	32,9	179,0	150
503.4817	17	10,3	7,6	31,8	34,5	190,0	160
503.4818	18	10,7	8,0	32,8	37,0	203,0	190
503.4819	19	11,2	8,6	33,9	39,2	215,0	220

GEAR*plus*® flexible locking combination ratcheting spanner set

- FlankTraction profile
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- With flexible locking head
- Exact gearing with 72 teeth
- 180° revolving head
- High quality finish
- Chrome vanadium
- In durable plastic storage case

			kg
503.4859	6 pcs	8 - 10 - 12 - 13 - 17 - 19 mm	1,21

GEARplus® Articulated Ratchet Combination Wrench, lockable

- FlankTraction profile
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- With flexible locking head
- Exact gearing with 72 teeth
- 180° revolving head
- High quality finish
- Chrome vanadium

			kg
503.4850	10 pcs	8 - 10 - 11 - 12 - 13 - 14 - 16 - 17 - 18 - 19 mm	1,21

GEAR*plus*® flexible locking combination ratcheting spanner set

- FlankTraction profile
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- With flexible locking head
- Exact gearing with 72 teeth
- 180° revolving head
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- For bits to DIN 3126 / C 6,3
- High quality finish
- Chrome vanadium
- In durable plastic storage case

1/4" 3/8" 1/2" 5/16" 10 mm

			kg
503.4867	12 pcs	GEAR*plus*® flexible locking combination ratcheting spanner set	1,30

6 x		8 - 10 - 12 - 13 - 17 - 19 mm
3 x		1/4" - 5/16" - 10 mm
3 x		1/4" - 3/8" - 1/2"

GEAR*plus*® flexible locking combination ratcheting spanner set

- FlankTraction profile
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- With flexible locking head
- Exact gearing with 72 teeth
- 180° revolving head
- High quality finish
- Chrome vanadium
- In durable plastic storage case

			kg
503.4865	12 pcs	8 - 9 - 10 - 11 -12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm	2,56

GEAR*plus*® flexible locking combination ratcheting spanner set

- FlankTraction profile
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- With flexible locking head
- Exact gearing with 72 teeth
- 180° revolving head
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- For bits to DIN 3126 / C 6,3
- High quality finish
- Chrome vanadium
- In durable plastic storage case

1/4" 3/8" 1/2" 5/16" 10 mm

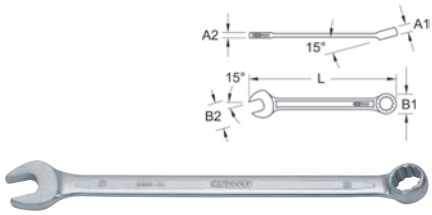
			kg
503.4868	18 pcs	GEAR*plus*® flexible locking combination ratcheting spanner set	2,90

12 x		8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm
3 x		1/4“ - 5/16“ - 10 mm
3 x		1/4“ - 3/8“ - 1/2“

COMBINATION SPANNERS, EXTRA LONG

Combination spanner, extra long

- FlankTraction profile
- Jaw 15° offset
- Ring head 15° offset
- Matt finish
- Chrome vanadium



	mm	A1 mm	A2 mm	B1 mm	B2 mm	L mm	g
517.1508	8	7,5	4,5	13,2	20,3	170,0	45
517.1509	9	8,0	4,5	14,6	22,4	180,0	55
517.1510	10	8,5	5,0	16,0	24,4	190,0	60
517.1511	11	9,0	5,5	17,2	26,4	200,0	75
517.1512	12	9,5	6,0	19,0	28,4	210,0	90
517.1513	13	10,0	6,5	20,0	30,5	225,0	108
517.1514	14	11,0	7,0	21,8	32,5	235,0	120
517.1515	15	12,0	7,5	23,0	34,5	250,0	150
517.1516	16	13,0	8,0	24,5	36,4	265,0	174
517.1517	17	14,0	8,5	26,5	38,4	280,0	206
517.1518	18	15,0	9,0	28,0	40,6	295,0	240
517.1519	19	16,0	9,5	29,5	42,6	310,0	272
517.1520	20	16,0	9,5	29,5	42,0	310,0	265
517.1521	21	17,0	10,0	33,0	46,6	340,0	370
517.1522	22	18,0	11,0	34,5	48,7	350,0	410
517.1523	23	18,0	11,5	34,0	47,0	345,0	400
517.1524	24	19,0	12,0	37,5	52,7	400,0	535
517.1525	25	19,0	12,0	37,0	52,0	395,0	510
517.1526	26	20,0	13,0	41,0	58,0	445,0	700
517.1527	27	20,0	13,0	42,0	58,9	450,0	680
517.1528	28	20,0	13,5	41,0	58,0	445,0	660
517.1530	30	21,0	14,0	47,0	64,8	480,0	870
517.1532	32	22,0	15,0	49,5	67,0	500,0	1000
517.1534	34	23,0	15,0	53,0	70,0	520,0	1100
517.1536	36	24,0	16,0	57,2	73,0	550,0	1320
517.1541	41	26,0	16,0	63,5	86,0	600,0	1700
517.1546	46	27,0	17,5	70,9	96,0	640,0	2230

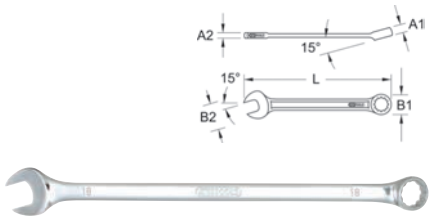
Combination spanner set, extra long

- FlankTraction profile
- Execution similar to DIN 3113
- Jaw 15° offset
- Ring head 15° offset
- Matt finish
- Chrome vanadium

			kg
517.1500	5 pcs	8 - 10 - 13 - 17 - 19 mm	0,70
517.1505	11 pcs	12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 21 - 22 - 24 mm	2,67

CHROME*plus*® combination spanner, extra long

- FlankTraction profile
- Jaw 15° offset
- Ring head 15° offset
- Mirror polished
- Chrome vanadium



	mm	A1 mm	A2 mm	B1 mm	B2 mm	L mm	g
519.0650	10	6,9	5,1	15,8	22,8	189,0	53
519.0651	11	7,0	5,3	17,3	24,6	207,0	62
519.0652	12	7,8	5,6	18,8	27,2	225,0	77
519.0653	13	8,5	5,7	20,4	28,6	243,0	113
519.0654	14	9,1	6,9	21,8	31,4	261,0	128
519.0655	15	9,3	7,0	23,4	33,5	279,0	144
519.0656	16	10,0	7,3	24,8	35,3	297,0	182
519.0657	17	10,1	7,4	26,2	37,6	314,0	197
519.0658	18	11,3	7,8	27,5	39,4	333,0	223
519.0659	19	12,7	8,7	28,7	41,5	349,0	271

CHROME*plus*® combination spanner set, extra long

- FlankTraction profile
- Jaw 15° offset
- Ring head 15° offset
- Mirror polished
- Chrome vanadium

			kg
519.0660	10 pcs	10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm	1,73

OPEN ENDED SPANNERS

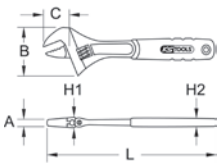
One handed multi function spanner

- Multi function spanner with ratchet function
- For complete screw working
- Adapts itself automatically to the screw size
- Self-clamping on flat pipes, bots, shafts, and unscrewed bodies of hexagonal, multitooth, Spline and TX screws
- No sliping due to the coarse teeth
- Chrome vanadium

	mm	L mm	g
114.0055	8-17/14-32	260,0	530

Adjustable spanner

- DIN 3117 Form A
- Jaw 15° offset
- Swedish type design
- With mm scale
- With hanging hole
- Matt finish
- Chrome vanadium



	mm		A mm	B mm	C mm	H1 mm	H2 mm	L mm	L	g
577.0100	13	1/2"	6,4	31,0	10,9	9,5	8,9	100,0	4"	50
577.0150	18	23/32"	7,1	46,0	15,2	11,6	10,7	150,0	6"	130
577.0200	23	29/32"	8,7	57,4	20,6	14,6	11,9	200,0	8"	250
577.0250	28	1.1/8"	11,1	69,8	24,9	16,9	14,5	250,0	10"	450
577.0300	34	1.5/16"	13,5	82,3	29,0	20,5	15,2	300,0	12"	690
577.0375	43	1.11/16"	15,9	104,3	37,1	25,4	17,5	375,0	15"	1240
577.0450	53	2.1/16"	18,2	120,0	45,2	30,9	19,1	450,0	18"	2100

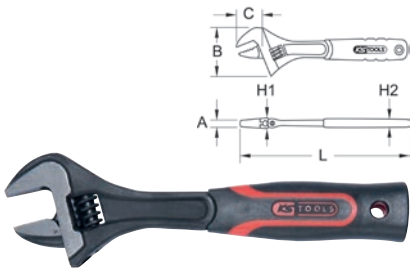
Adjustable spanner set

- DIN 3117 Form A
- Jaw 15° offset
- Swedish type design
- With mm scale
- With hanging hole
- Matt finish
- Chrome vanadium

			kg
577.0299	2 pcs	250 - 300 mm	1,14
577.0399	3 pcs	250 - 300 - 375 mm	2,80

Adjustable spanner with dual component comfort grip handle

- DIN 3117 Form A
- Jaw 15° offset
- Swedish type design
- With mm scale
- With hanging hole
- Two component handle
- Phosphate finish
- Chrome vanadium



	mm		A mm	B mm	C mm	H1 mm	H2 mm	L mm	L	g
577.0201	23	29/32"	8,7	57,4	20,6	14,6	11,9	200,0	8"	250
577.0251	28	1.1/8"	11,1	69,8	24,9	16,9	14,5	250,0	10"	450
577.0301	34	1.5/16"	13,5	82,3	29,0	20,5	15,2	300,0	12"	690

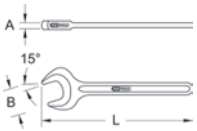
Adjustable spanner set with dual component comfort grip handle

- DIN 3117 Form A
- Jaw 15° offset
- Swedish type design
- With mm scale
- With hanging hole
- Two component handle
- Phosphate finish
- Chrome vanadium

			kg
577.0199	3 pcs	200 - 250 - 300 mm	1,39

Single open ended spanner

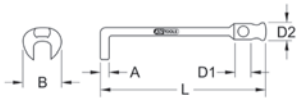
- DIN 894 / ISO 3380
- Jaw 15° offset
- For heavy duty applications
- Phosphate finish
- Tempered steel



	mm	A mm	B mm	L mm	g
517.2506	6	3,2	15,5	75,0	10
517.2507	7	3,5	17,0	80,0	11
517.2508	8	3,5	19,0	95,0	16
517.2509	9	4,0	20,0	100,0	20
517.2510	10	4,5	22,0	105,0	20
517.2511	11	5,0	24,5	115,0	25
517.2512	12	5,0	26,5	125,0	35
517.2513	13	5,5	28,5	135,0	40
517.2514	14	5,5	30,0	140,0	40
517.2515	15	5,5	32,0	145,0	45
517.2516	16	5,5	33,0	155,0	45
517.2517	17	6,0	36,0	150,0	70
517.2518	18	6,0	36,0	160,0	68
517.2519	19	7,0	40,0	170,0	80
517.0522	22	8,0	48,0	193,0	170
517.0524	24	9,0	50,0	217,0	170
517.2318	25	9,0	52,0	217,0	142
517.0527	27	9,8	56,0	239,0	230
517.0530	30	10,8	62,0	263,0	290
517.0532	32	11,8	66,0	275,0	350
517.0536	36	12,8	74,0	305,0	410
517.0538	38	12,8	74,0	305,0	410
517.0540	40	13,7	87,0	350,0	620
517.0541	41	13,8	87,0	344,0	620
517.0542	42	13,5	87,0	350,0	700
517.0546	46	19,8	94,0	380,0	850
517.0548	48	16,5	99,0	395,0	940
517.0550	50	15,8	102,0	413,0	1020
517.0555	55	16,8	112,0	459,0	1280
517.0560	60	17,7	122,0	494,0	1630
517.0565	65	18,7	132,0	528,0	1710
517.0570	70	19,7	142,0	572,0	2500
517.0575	75	20,7	152,0	610,0	3500
517.0580	80	21,7	162,0	645,0	3700
517.0585	85	23,0	173,0	690,0	4780
517.0590	90	23,0	173,0	690,0	5450
517.0595	95	25,0	195,0	847,0	5590
517.0596	100	25,0	195,0	847,0	5800
517.2605	105	28,0	217,0	1000,0	8900
517.2610	110	28,0	217,0	1000,0	9000
517.2615	115	28,0	220,0	1000,0	9000
517.2620	120	28,0	220,0	1000,0	9000
517.2625	125	28,0	220,0	1000,0	8300
517.2630	130	28,0	225,0	1000,0	8300
517.0635	135	28,0	225,0	1000,0	8200

Pronged wrench

- Light work in inaccessible places
- Alternative insert for tommy bar
- Matt finish
- Special tool steel



	mm	L mm	A mm	B mm	D1 mm	D2 mm	g
517.9150	13	160,0	5,5	28,0	8,5	13,8	95
517.9151	14	160,0	5,5	28,0	8,5	13,8	93
517.9152	16	200,0	6,0	33,0	10,5	16,8	160
517.9153	17	200,0	6,0	33,0	10,5	16,8	169
517.9154	18	200,0	7,0	37,0	12,5	19,6	216
517.9155	19	200,0	7,0	37,0	12,5	19,6	224
517.9156	21	200,0	8,0	42,0	12,5	19,6	272
517.9157	22	200,0	8,0	42,0	12,5	19,6	265
517.9158	24	250,0	9,0	46,0	14,5	23,6	419
517.9169	27	250,0	10,0	52,0	14,5	23,6	519
517.9170	30	250,0	11,0	57,0	16,5	27,6	633
517.9171	32	250,0	11,8	61,0	16,5	27,6	712
517.9172	36	315,0	12,8	68,0	19,0	31,5	1034
517.9173	41	315,0	14,0	76,0	19,0	31,0	1197
517.9174	46	315,0	15,0	85,0	21,0	34,0	1486
517.9175	50	315,0	15,0	92,0	21,0	34,0	1674

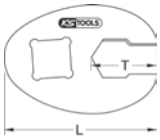
Tommy bar for crowfoot spanners

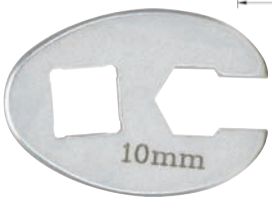
- Matt finish
- Special tool steel

	D mm	L mm	g
517.9176	8,0	177,0	75
517.9177	10,0	197,0	128
517.9178	12,0	246,0	229
517.9179	14,0	316,0	385
517.9180	16,0	396,0	635
517.9181	18,0	495,0	995

Crawfoot wrench, hexagonal

- 6 point
- Internal square drive
- For manual operation
- Matt finish
- Chrome vanadium





3/8"

	mm	L mm	T mm	g	
913.3810	10,0	40,0	16,0	40	
913.3811	11,0	37,0	13,0	40	
913.3812	12,0	37,0	15,0	40	
913.3813	13,0	36,0	14,0	40	
913.3814	14,0	43,0	18,0	60	
913.3815	15,0	42,0	20,0	60	
913.3816	16,0	43,0	22,0	60	
913.3817	17,0	48,0	23,0	80	
913.3818	18,0	46,0	21,0	80	
913.3819	19,0	44,0	22,0	80	

Crawfoot wrench, hexagonal

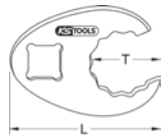
- 6 point
- Internal square drive
- For manual operation
- Matt finish
- Chrome vanadium

3/8"

			g	
913.3800	10 pcs	10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm	630	

CHROME*plus*® 12 point crawfoot wrench

- 12 point
- Internal square drive
- For manual operation
- Mirror polished
- Chrome vanadium



3/8"

	mm	L mm	T mm	g	
913.3910	10,0	36,0	13,0	40	
913.3911	11,0	36,0	17,0	40	
913.3912	12,0	37,0	14,0	40	
913.3913	13,0	37,0	17,0	40	
913.3914	14,0	41,0	19,0	60	
913.3915	15,0	42,0	21,0	60	
913.3916	16,0	43,0	22,0	60	
913.3917	17,0	46,0	22,0	80	
913.3919	19,0	46,0	23,0	80	
913.3922	22,0	54,0	30,0	90	

CHROME*plus*® 12 point crawfoot wrench set

- 12 point
- Internal square drive
- For manual operation
- Mirror polished
- Chrome vanadium
- Includes storage rail

3/8"

			g	
913.3900	10 pcs	10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 19 - 22 mm	500	

Insertable open-ended wrench

- For tightening and loosening pipe connections
- For manual operation
- Internal square drive adaptor to DIN 3120 / ISO 1174
- Special tool steel

	□	mm	g	
913.1941	3/8"	18	140	
913.1942	3/8"	22	150	
913.1943	3/8"	24	160	
913.1944	1/2"	27	170	
913.1945	1/2"	32	180	
913.1946	1/2"	34	220	
913.1947	1/2"	36	230	
913.1948	1/2"	37	240	
913.1949	1/2"	38	280	
913.1950	1/2"	41	380	

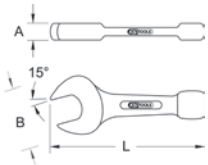
12 point crawfoot wrench

- 12 point
- For tightening and loosening pipe connections
- For manual operation
- Slim execution
- For difficult to access areas
- Burnished
- Special tool steel
- In durable plastic storage case

	□	mm	g	
913.1301	3/8"	19	62	
913.1302	1/2"	21	94	
913.1303	1/2"	22	112	
913.1304	1/2"	24	120	
913.1305	1/2"	27	153	
913.1306	1/2"	30	170	
913.1307	1/2"	32	168	
913.1308	3/4"	36	337	
913.1309	3/4"	41	400	
913.1310	3/4"	46	632	

Slogging open end spanner

- DIN 133
- Jaw 15° offset
- With impact area
- For heavy duty applications
- Phosphate finish
- Chrome vanadium



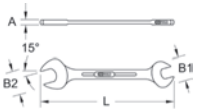
	mm		A mm	B mm	L mm	kg	
517.2122	22		16,0	55,0	180,0	0,30	
517.0124	24		16,0	55,0	180,0	0,28	
517.0127	27		16,3	56,0	181,0	0,39	
517.0130	30		16,7	62,0	188,0	0,53	
517.0132	32		17,2	66,0	196,0	0,53	
517.0136	36		18,2	76,0	211,0	0,76	
517.0141	41		19,2	88,0	227,0	0,92	
517.0146	46		19,7	98,0	256,0	1,31	
517.0150	50		21,2	106,5	281,0	1,57	
517.0155	55		23,6	117,0	310,0	2,31	
517.0160	60		24,1	128,0	321,0	2,31	
517.0165	65		27,6	139,0	351,0	3,30	
517.0170	70		29,6	150,0	370,0	4,56	
517.0175	75		31,0	161,5	390,0	4,46	
517.0180	80		34,0	172,5	406,0	6,12	
517.0185	85		34,0	172,5	406,0	5,74	
517.0190	90		38,4	194,0	456,0	8,04	
517.0195	95		38,4	194,0	456,0	8,16	
517.0196	100		46,0	225,0	500,0	11,80	
517.2105	105		46,3	225,5	500,0	11,20	
517.2110	110		46,3	225,5	500,0	14,00	
517.2115	115		54,2	245,5	525,0	13,80	
517.2120	120		54,2	254,5	525,0	18,00	
517.2125	125		50,0	255,0	545,0	17,80	
517.2130	130		55,0	275,0	575,0	21,00	
517.2135	135		55,0	275,0	575,0	20,40	
517.2140	140		55,0	275,0	575,0	20,00	
517.2145	145		60,0	305,0	640,0	28,50	
517.2150	150		60,0	305,0	640,0	28,30	
517.2155	155		60,0	305,0	640,0	28,00	
517.2160	160		60,0	305,0	640,0	28,40	
517.2165	165		70,0	342,0	715,0	42,00	
517.2170	170		70,0	342,0	715,0	39,00	
517.2175	175		70,0	342,0	715,0	39,00	
517.2180	180		70,0	392,0	715,0	40,00	
517.2185	185		70,0	392,0	715,0	39,50	
517.2190	190		78,0	392,0	800,0	53,00	
517.2195	195		78,0	392,0	800,0	52,00	
517.2200	200		78,0	392,0	800,0	51,00	
517.2205	205		78,0	392,0	800,0	51,00	
517.2210	210		78,0	392,0	800,0	50,50	
517.2220	220		72,0	415,0	800,0	48,00	
517.2251		1.1/16"	16,3	56,0	181,0	0,30	
517.2254		1.1/8"	16,3	56,0	181,0	0,35	
517.2255		1.3/16"	16,7	62,0	188,0	0,40	
517.2253		1.1/4"	16,7	62,0	188,0	0,53	
517.2258		1.5/16"	17,2	66,0	196,0	0,65	
517.2257		1.3/8"	17,2	66,0	196,0	0,76	
517.2260		1.7/16"	18,2	76,0	211,0	1,25	
517.2252		1.1/2"	18,2	76,0	211,0	0,35	
517.2262		1.9/16"	19,2	88,0	227,0	2,05	
517.2259		1.5/8"	19,2	88,0	227,0	0,95	
517.2263		1.11/16"	19,2	88,0	227,0	2,45	
517.2256		1.3/4"	19,2	88,0	227,0	0,48	
517.2264		1.13/16"	19,7	98,0	256,0	1,31	
517.2261		1.7/8"	19,7	98,0	256,0	1,60	
517.2265		1.15/16"	21,2	106,5	281,0	4,25	
517.2266		2"	21,2	106,5	281,0	4,88	
517.2267		2.1/16"	21,2	106,5	281,0	6,10	
517.2270		2.1/8"	21,2	106,0	281,0	7,60	
517.2271		2.3/16"	23,6	117,0	310,0	11,50	
517.2269		2.1/4"	23,6	117,0	310,0	8,25	
517.2274		2.5/16"	23,6	117,0	310,0	13,80	
517.2273		2.3/8"	23,6	128,0	321,0	14,00	
517.2276		2.7/16"	23,6	128,0	321,0	17,80	
517.2268		2.1/2"	23,6	128,0	321,0	5,90	

	mm		A mm	B mm	L mm	kg
517.2278		2.9/16"	27,6	139,0	351,0	17,80
517.2275		2.5/8"	27,6	139,0	351,0	18,00
517.2272		2.3/4"	29,6	150,0	370,0	11,20
517.2279		2.13/16"	29,6	150,0	370,0	21,00
517.2277		2.7/8"	29,6	150,0	370,0	18,00
517.2280		2.15/16"	31,0	161,5	390,0	20,40
517.2281		3"	31,0	161,5	390,0	20,00
517.2284		3.1/8"	34,0	172,5	406,0	28,00
517.2283		3.1/4"	34,0	172,5	406,0	28,30
517.2286		3.3/8"	34,0	172,5	406,0	42,00
517.2282		3.1/2"	38,4	194,0	456,0	28,50
517.2287		3.5/8"	38,4	194,0	456,0	39,00
517.2285		3.3/4"	38,4	194,0	456,0	28,40
517.2288		3.7/8"	46,3	225,5	500,0	39,00
517.2289		4"	46,3	225,5	500,0	40,00
517.2292		4.1/8"	46,3	225,5	800,0	52,00
517.2291		4.1/4"	47,0	235,0	510,0	53,00
517.2290		4.1/2"	47,0	235,0	510,0	39,50
517.2293		4.3/4"	50,0	255,0	545,0	51,00
517.2294		5"	50,0	255,0	545,0	51,00
517.2296		5.3/8"	55,0	275,0	575,0	48,00
517.2295		5.3/4"	55,0	275,0	575,0	50,50
517.2297		6"	60,0	305,0	640,0	47,50

DOUBLE OPEN ENDED SPANNERS

Double open ended spanners

- DIN 3110 / ISO 1085 / ISO 10102 / ISO 3318
- Jaw 15° offset
- Ground heads
- Matt finish
- Chrome vanadium

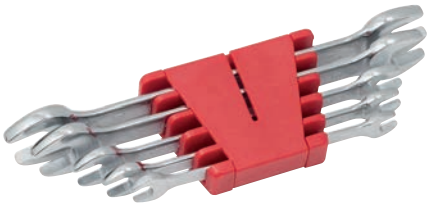


	mm		A mm	B1 mm	B2 mm	L mm	g
517.0738	3,2x5,5		3,0	10,5	12,0	97,0	11
517.0739	4x5		4,0	14,0	16,0	125,0	21
517.0745	5,5x7		3,6	15,7	17,7	122,0	17
517.0701	6x7		3,7	15,5	18,0	122,0	20
517.0702	8x9		4,0	20,4	22,7	140,0	40
517.0740	8x10		4,0	18,0	22,0	140,0	30
517.0747	9x11		4,8	23,9	26,9	156,0	45
517.0704	10x11		5,0	24,9	27,1	157,0	50
517.0741	10x12		5,5	22,0	28,0	162,0	60
517.0706	10x13		5,0	24,9	31,2	157,0	70
517.0748	10x14		5,3	28,0	31,0	172,0	65
517.0742	11x13		5,0	25,0	29,0	172,0	69
517.0749	11x14		5,3	28,0	31,0	172,0	75
517.0707	12x13		5,0	29,2	31,2	172,0	70
517.0751	12x14		5,3	28,0	31,0	172,0	75
517.0743	13x14		6,0	30,0	31,5	188,0	90
517.0752	13x15		5,7	32,5	34,9	190,0	95
517.0708	13x17		6,0	31,2	38,9	172,0	120
517.0709	14x15		5,5	33,3	35,3	190,0	100
517.0753	14x17		2,9	32,1	38,2	204,0	120
517.0710	16x17		6,0	37,1	38,9	205,0	130
517.0744	16x18		6,5	36,0	40,0	220,0	150
517.0711	17x19		6,5	38,9	42,8	222,0	180
517.0712	18x19		6,5	40,9	42,8	222,0	180
517.0714	20x22		7,0	45,5	49,5	236,0	230
517.0713	19x22		7,0	42,8	49,5	236,0	200
517.0757	19x24		7,3	42,3	52,5	250,0	250
517.0715	21x23		7,5	47,0	51,0	250,0	220
517.0758	21x24		7,3	47,4	51,5	250,0	250
517.0736	22x24		7,5	49,5	54,5	250,0	260
517.0761	24x26		7,8	51,6	52,5	265,0	330
517.0716	24x27		8,0	54,5	61,0	266,0	330
517.0764	24x30		8,1	52,5	64,8	280,0	395
517.0737	25x28		8,5	65,0	61,0	280,0	360
517.0765	27x29		8,1	58,6	64,8	280,0	460
517.0766	27x30		8,1	58,6	64,4	280,0	475
517.0767	27x32		8,6	59,7	69,9	302,0	500
517.0718	30x32		9,0	65,5	69,0	302,0	510
517.0768	30x34		8,6	64,8	73,0	302,0	540
517.0769	30x36		9,5	64,8	76,7	326,0	630
517.0771	32x36		9,5	69,5	76,7	326,0	630
517.0725	36x41		10,0	77,0	85,0	380,0	950

	mm		A mm	B1 mm	B2 mm	L mm	g
517.0726	41x46		10,7	86,5	95,5	400,0	1220
517.0728	46x50		11,6	97,0	103,0	420,0	1920
517.0772	55x60		16,5	110,0	120,0	565,0	3000
517.0781		1/4x5/16"	3,9	17,7	20,8	120,0	25
517.0782		5/16x3/8"	3,9	20,8	22,9	140,0	35
517.0783		3/8x7/16"	4,8	23,9	26,9	156,0	45
517.0784		7/16x1/2"	5,3	28,0	31,0	172,0	85
517.0785		1/2x9/16"	5,7	32,5	34,9	190,0	95
517.0786		9/16x5/8"	5,7	32,5	34,9	190,0	103
517.0787		19/32x11/16"	5,9	36,1	39,2	204,0	132
517.0788		5/8x11/16"	5,9	36,1	39,2	204,0	132
517.0789		11/16x3/4"	6,5	40,2	42,3	223,0	155
517.0791		5/8x3/4"	6,5	40,2	42,3	223,0	155
517.0792		3/4x25/32"	6,8	44,9	48,4	236,0	230
517.0793		3/4x7/8"	6,8	44,9	48,8	236,0	230
517.0794		13/16x7/8"	6,8	44,9	48,8	236,0	230
517.0795		15/16x1"	7,8	51,6	52,5	265,0	315
517.0796		1x1.1/8"	8,1	55,2	61,3	280,0	405
517.0797		1.1/16x1.1/4"	8,6	59,7	69,9	302,0	440

Double open ended spanner set

- DIN 3110 / ISO 1085 / ISO 10102 / ISO 3318
- Jaw 15° offset
- Ground heads
- Matt finish
- Chrome vanadium



			g
517.0145	5 pcs	8x9 - 10x11 - 12x13 - 16x17 - 18x19 mm	465

Double open ended spanner set

- DIN 3110 / ISO 1085 / ISO 10102 / ISO 3318
- Jaw 15° offset
- Ground heads
- Matt finish
- Chrome vanadium

			g
517.0148	8 pcs	6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17 - 18x19 - 20x22 mm	810

Double open ended spanner set

- DIN 3110 / ISO 1085 / ISO 10102 / ISO 3318
- Jaw 15° offset
- Ground heads
- Matt finish
- Chrome vanadium

			kg
517.0149	10 pcs	8x10 - 10x12 - 13x17 - 14x15 - 16x18 - 17x19 - 20x22 - 21x23 - 24x27 - 30x32 mm	1,95

Double open ended spanner set

- DIN 3110 / ISO 1085 / ISO 10102 / ISO 3318
- Jaw 15° offset
- Ground heads
- Matt finish
- Chrome vanadium

			kg
517.0123	11 pcs	6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17 - 18x19 - 20x22 - 21x23 - 24x27 - 30x32 mm	1,60

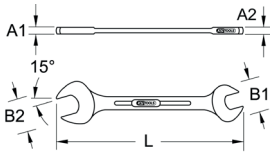
Double open ended spanner set

- DIN 3110 / ISO 1085 / ISO 10102 / ISO 3318
- Jaw 15° offset
- Ground heads
- Matt finish
- Chrome vanadium

			kg
517.0125	12 pcs	6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17 - 18x19 - 20x22 - 21x23 - 24x27 - 25x28 - 30x32 mm	2,40

CHROME*plus*® Double open ended spanner

- DIN 3110 / ISO 3318 / ISO 1085 / ISO 10102
- Jaw 15° offset
- Mirror polished
- Chrome vanadium



	mm		A1 mm	A2 mm	B1 mm	B2 mm	L mm	g
518.0701	6x7		4,5	4,6	14,3	16,1	125,0	27
518.0702	8x9		5,0	5,5	17,1	19,1	140,0	32
518.0704	10x11		5,7	5,9	20,5	23,3	157,0	58
518.0706	10x13		6,6	6,8	26,2	29,7	157,0	93
518.0707	12x13		6,5	6,8	27,0	29,7	172,0	93
518.0709	14x15		7,2	7,2	29,2	32,8	190,0	122
518.0710	16x17		7,4	7,5	33,4	38,6	205,0	170
518.0719	16x18		7,4	7,4	33,5	38,6	210,0	170
518.0711	17x19		8,2	8,2	36,2	39,2	220,0	212
518.0712	18x19		8,2	8,4	36,2	39,2	220,0	212
518.0714	20x22		8,6	8,6	37,6	43,0	236,0	235
518.0715	21x23		8,8	8,8	42,6	45,1	250,0	277
518.0716	24x27		9,8	9,8	49,5	51,6	265,0	410
518.0718	30x32		12,1	12,1	55,9	66,4	300,0	693
518.0720	36x41		12,2	12,2	73,8	84,0	380,0	992
518.3201		1/4"x5/16"	4,5	4,6	14,3	16,1	125,0	27
518.3202		3/8"x7/16"	5,7	5,9	20,5	23,3	157,0	58
518.3203		1/2"x9/16"	6,5	6,8	27,0	29,7	172,0	93
518.3204		9/16"x5/8"	7,2	7,4	29,2	32,8	185,0	122
518.3205		5/8"x11/16"	7,4	7,5	33,5	38,6	205,0	170
518.3206		11/16"x3/4"	8,2	8,4	36,2	39,2	220,0	212
518.3207		3/4"x7/8"	8,6	9,1	37,6	43,0	236,0	235
518.3208		15/16"x1"	9,8	9,9	49,5	51,6	265,0	410
518.3209		1.1/8"x1.1/4"	12,1	12,3	55,9	66,4	300,0	693

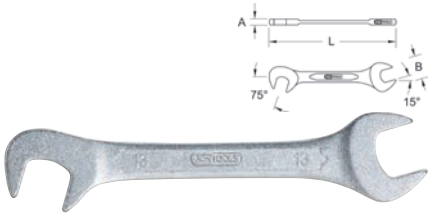
CHROME*plus*® Double open ended spanner set

- DIN 3110 / ISO 3318 / ISO 1085 / ISO 10102
- Jaw 15° offset
- Mirror polished
- Chrome vanadium

			kg
518.0747	7 pcs	8x9 - 10x11 - 12x13 - 14x15 - 16x17 - 18x19 - 20x22 mm	1,03
518.0743	3 pcs	21x23 - 24x27 - 30x32 mm	1,42
518.3220	6 pcs	1/4"x5/16" - 3/8"x7/16" - 1/2"x9/16" - 5/8"x11/16" - 11/16"x3/4" - 3/4"x7/8"	0,80
518.3200	8 pcs	1/4"x5/16" - 3/8"x7/16" - 1/2"x9/16" - 5/8"x11/16" - 11/16"x3/4" - 3/4"x7/8" - 15/16"x1" - 1.1/8"x1.1/4"	1,90

Double open ended spanners

- Jaw 15° and 75° offset
- Both jaws the same size
- Ground heads
- Extra flat heads
- Matt finish
- Chrome vanadium



	mm	A mm	B mm	L mm	g
517.1732	3,2	2,4	10,0	70,0	6
517.1740	4	2,4	10,0	70,0	6
517.1750	5	2,4	13,0	75,0	8
517.1755	5,5	2,4	13,0	75,0	8
517.1760	6	2,7	15,0	80,0	10
517.1770	7	2,7	15,0	80,0	10
517.1780	8	3,0	18,5	90,0	16
517.1790	9	3,0	18,5	90,0	16
517.1800	10	3,0	22,0	100,0	22
517.1810	11	3,0	22,0	100,0	22
517.1820	12	3,5	27,0	120,0	36
517.1830	13	3,5	27,0	120,0	36
517.1840	14	3,5	27,0	140,0	36
517.1841	15	4,8	32,5	140,0	68
517.1842	17	4,8	32,5	140,0	68

Double open ended spanner set

- Jaw 15° and 75° offset
- Both jaws the same size
- Ground heads
- Extra flat heads
- Matt finish
- Chrome vanadium

			kg
517.1700	15 pcs	3,2 - 3,5 - 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 mm	2,00

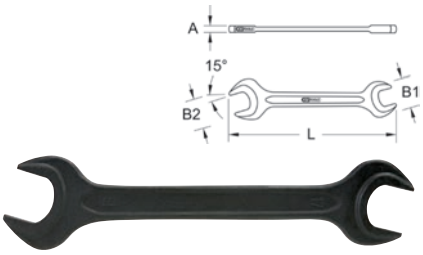
Double open ended spanners

- Jaw 20° and 80° offset
- Both jaws the same size
- Ground heads
- Extra flat heads
- Matt finish
- Chrome vanadium

	mm	A mm	B mm	L mm	g
517.1791	16	4,8	32,5	140,0	68

Double open ended spanner

- DIN 895 / ISO 3318 / ISO 1085
- Jaw 15° offset
- For heavy duty applications
- Phosphate finish
- Chrome vanadium



	mm	A mm	B1 mm	B2 mm	L mm	g
517.1406	6x7	3,2	15,0	17,0	96,0	10
517.1407	7x8	3,5	17,0	19,0	110,0	20
517.1408	8x9	3,7	19,0	20,5	108,0	15
517.2408	8x10	4,2	19,0	22,0	115,0	26
517.1409	9x10	4,3	18,8	23,3	118,0	30
517.2409	9x11	5,0	20,5	24,0	125,0	30
517.1410	10x11	5,0	22,0	24,5	124,0	30
517.2410	10x12	5,0	22,0	26,8	125,0	34
517.1411	10x13	5,0	22,0	28,5	128,0	40
517.2411	11x13	5,5	24,5	28,5	140,0	45
517.1412	12x13	5,5	26,5	28,5	140,0	40
517.2412	12x14	5,5	26,5	30,0	140,0	50
517.1413	13x14	5,5	28,5	30,0	140,0	40
517.2413	13x15	5,5	28,5	32,0	150,0	60
517.1415	13x17	6,0	28,5	36,0	158,0	70
517.1414	14x15	5,5	30,0	32,0	154,0	60
517.2414	14x17	6,0	30,0	36,0	160,0	70
517.1416	16x17	6,0	33,0	36,0	158,0	80
517.2746	16x18	7,0	30,0	35,0	160,0	88
517.1417	17x19	7,0	36,0	40,0	171,0	100
517.2417	17x22	8,0	36,0	46,0	190,0	145
517.1418	18x19	7,0	38,0	40,0	171,0	100
517.2748	18x21	7,0	35,0	40,0	190,0	120
517.1419	19x22	8,0	40,0	46,0	195,0	135
517.2419	19x24	9,0	40,0	50,0	215,0	140
517.1420	20x22	8,0	42,5	46,0	195,0	135
517.2421	21x23	9,0	44,0	49,0	215,0	180
517.1422	22x24	9,0	46,0	50,0	221,0	180
517.2422	22x27	10,0	46,0	56,0	235,0	230
517.1423	24x27	9,8	50,0	56,0	246,0	260
517.2751	24x30	11,0	50,0	60,0	265,0	320
517.1425	25x28	9,8	53,0	58,0	246,0	330
517.1426	27x30	10,8	56,0	62,0	275,0	400
517.2427	27x32	12,0	56,0	66,0	270,0	370
517.1430	30x32	11,8	62,0	66,0	278,0	420
517.2430	30x36	13,0	62,0	74,0	305,0	500
517.1432	32x36	12,8	66,0	74,0	310,0	520
517.1436	36x41	13,8	74,0	84,0	347,0	800
517.1441	41x46	14,8	84,0	94,0	383,0	950
517.1446	46x50	15,8	94,0	102,0	420,0	1200
517.1450	50x55	16,5	102,0	112,0	450,0	1400
517.1455	55x60	18,0	112,0	122,0	480,0	1900
517.1465	65x70	20,0	132,0	142,0	580,0	2310
517.1475	75x80	21,0	152,0	162,0	665,0	4480

Double open ended spanner set

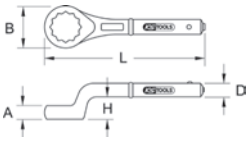
- DIN 895 / ISO 3318 / ISO 1085
- Jaw 15° offset
- For heavy duty applications
- Phosphate finish
- Chrome vanadium

			kg
517.1490	8 pcs	6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17 - 18x19 - 20x22 mm	0,57
517.1491	10 pcs	6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17 - 18x19 - 20x22 - 24x27 - 30x32 mm	1,41

SINGLE RING ENDED SPANNER

Offset single ring spanner

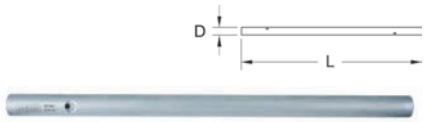
- FlankTraction profile
- Ring head 75° offset
- With shaft for snap-on handle
- With locking pin
- Heavy duty to deliver maximum torque
- Matt finish
- Chrome vanadium



	mm		A mm	B mm	D mm	H mm	L mm	kg
517.9022	22		17,0	38,0	18,3	29,0	180,0	0,32
517.9024	24		17,0	38,0	19,0	29,5	180,0	0,35
517.9027	27		17,0	42,0	19,0	31,5	190,0	0,40
517.9030	30		18,0	48,0	19,0	33,5	195,0	0,45
517.9032	32		18,0	49,0	21,8	34,0	200,0	0,55
517.9036	36		18,0	49,0	21,8	34,0	200,0	0,65
517.9038	38		20,0	54,0	22,0	35,5	245,0	0,70
517.9041	41		20,0	54,0	21,8	35,5	205,0	0,75
517.9042	42		22,0	62,0	22,0	39,5	265,0	0,75
517.9046	46		22,0	62,0	25,0	39,5	265,0	1,05
517.9050	50		23,0	69,0	25,0	40,0	280,0	1,15
517.9055	55		25,5	76,0	25,0	42,5	290,0	1,40
517.9060	60		28,0	81,0	30,0	45,5	300,0	2,10
517.9065	65		30,5	90,0	30,0	49,0	345,0	2,30
517.9070	70		33,0	98,0	30,0	53,0	355,0	2,60
517.9075	75		35,5	105,0	30,0	55,0	365,0	3,00
517.9080	80		38,0	110,0	30,0	57,5	375,0	3,45
517.9085	85		40,5	125,0	30,0	59,0	385,0	3,80
517.9090	90		45,0	140,0	30,0	63,0	410,0	4,88
517.9095	95		45,0	140,0	30,0	63,0	410,0	5,67
517.9100	100		47,0	140,0	30,0	63,0	412,0	6,66
517.9105	105		47,0	143,0	30,0	63,0	415,0	7,50
517.9110		7/8"	17,0	38,0	18,0	29,0	195,0	0,32
517.9111		1"	17,0	38,0	18,3	29,0	180,0	0,37
517.9112		1.1/16"	17,0	38,0	18,3	31,5	185,0	0,41
517.9115		1.1/8"	17,0	38,0	18,3	33,0	185,0	0,41
517.9116		1.3/16"	18,0	48,0	18,3	33,0	195,0	0,49
517.9114		1.1/4"	18,0	49,0	21,3	34,0	230,0	0,72
517.9119		1.5/16"	20,0	54,0	21,3	34,0	240,0	0,72
517.9118		1.3/8"	20,0	54,0	21,3	35,0	240,0	0,84
517.9121		1.7/16"	20,0	54,0	21,3	35,0	250,0	0,84
517.9113		1.1/2"	20,0	54,0	21,3	39,0	240,0	0,84
517.9123		1.9/16"	23,0	69,0	21,3	39,0	250,0	0,94
517.9120		1.5/8"	23,0	69,0	21,3	39,0	250,0	0,94
517.9124		1.11/16"	23,0	69,0	21,3	39,0	250,0	0,94
517.9117		1.3/4"	22,0	62,0	21,4	40,0	250,0	0,94
517.9125		1.13/16"	23,0	69,0	24,1	40,0	260,0	1,30
517.9122		1.7/8"	23,0	69,0	24,1	40,0	260,0	1,30
517.9126		2"	28,0	81,0	24,1	42,0	270,0	1,45
517.9127		2.1/16"	28,0	81,0	24,1	42,0	270,0	1,45
517.9130		2.1/8"	28,0	81,0	24,1	45,0	270,0	1,45
517.9131		2.3/16"	28,0	81,0	24,1	45,0	270,0	1,50
517.9129		2.1/4"	28,0	81,0	24,1	45,0	270,0	1,50
517.9134		2.5/16"	30,5	90,0	29,1	49,0	325,0	2,40
517.9133		2.3/8"	30,5	90,0	29,1	49,0	325,0	2,40
517.9135		2.7/16"	30,5	90,0	29,1	49,0	345,0	2,60
517.9128		2.1/2"	30,5	90,0	29,1	53,0	325,0	2,40
517.9136		2.9/16"	30,5	90,0	29,1	53,0	345,0	2,60
517.9132		2.3/4"	30,5	90,0	29,1	55,0	345,0	2,80
517.9137		2.13/16"	38,0	110,0	29,1	55,0	375,0	3,00
517.9138		2.15/16"	38,0	110,0	29,1	57,5	375,0	3,00
517.9139		3"	38,0	110,0	29,1	57,5	375,0	3,00
517.9142		3.1/8"	40,5	125,0	29,1	59,0	385,0	4,10
517.9141		3.1/4"	40,5	125,0	29,1	59,0	385,0	4,10
517.9144		3.3/8"	40,5	125,0	29,1	59,0	385,0	4,10
517.9140		3.1/2"	40,5	125,0	29,1	63,0	385,0	4,10
517.9145		3.5/8"	45,0	140,0	29,1	63,0	410,0	4,95
517.9143		3.3/4"	45,0	140,0	29,1	63,0	410,0	4,95
517.9146		3.7/8"	45,0	140,0	29,1	63,0	410,0	4,95
517.9147		4"	45,0	140,0	29,1	63,0	412,0	4,95

Snap-on handle for single ring spanner

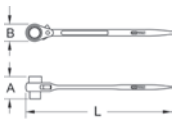
- Four different sizes
- Matt finish
- Chrome vanadium



	mm	D mm	L mm	#	kg
517.9001	24 - 30	19,0	460,0	1	0,75
517.9002	32 - 41	22,0	610,0	2	1,25
517.9003	46 - 55	25,0	760,0	3	2,30
517.9004	60 - 105	30,0	860,0	4	2,80

Scaffold spanner, reversing

- FlankTraction profile
- Exact gearing with 32 teeth
- Centering pin at the handle end
- extremely stable
- Reversible
- Phosphate finish
- Chrome vanadium



	mm	A mm	B mm	L mm	g
522.1013	10x13	36,5	31,0	240,0	200
522.1317	13x17	44,2	34,0	280,0	270
522.1618	16x18	49,0	42,1	315,0	450
522.1719	17x19	49,3	42,3	315,0	450
522.1922	19x22	49,5	42,3	315,0	450
522.1924	19x24	54,0	51,3	360,0	750
522.2427	24x27	54,0	51,6	360,0	750
522.2430	24x30	62,2	64,5	450,0	1280
522.3036	30x36	67,0	65,2	450,0	1300
522.3236	32x36	67,1	65,4	450,0	1300

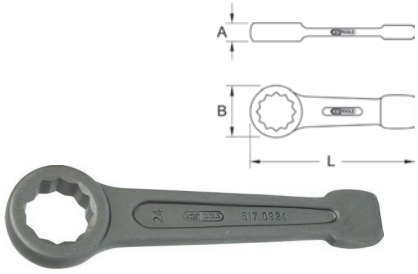
4 in 1 Scaffolding Wrench

- FlankTraction profile
- Exact gearing with 28 teeth
- with a pointed cone on the handle
- forged hammer
- fold-out nail puller on the wrench head
- extremely stable
- Reversible
- Matt finish
- Chrome vanadium

	mm	A mm	B mm	L mm	g
522.2219	19x22	50,0	55,0	310,0	470

Slogging ring spanner

- FlankTraction profile
- DIN 7444
- With impact area
- For heavy duty applications
- Phosphate finish
- Chrome molybdenum

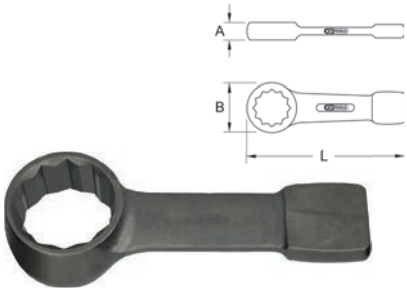


	mm		A mm	B mm	L mm	kg
517.0922	22		15,0	43,0	165,0	0,24
517.0924	24		15,0	42,5	160,0	0,24
517.2336	26		16,0	46,0	160,0	0,34
517.0927	27		15,5	47,0	180,0	0,33
517.2339	28		17,0	52,0	190,0	0,46
517.0930	30		16,5	51,5	190,0	0,44
517.0932	32		16,5	54,0	195,0	0,53
517.2337	33		17,0	55,0	195,0	0,55
517.2341	34		18,0	58,0	205,0	0,57
517.0936	36		19,5	60,0	205,0	0,55
517.2338	37		18,0	58,0	205,0	0,57
517.2342	38		18,0	58,0	205,0	0,57
517.0941	41		20,5	66,0	225,0	0,73
517.2343	42		20,0	66,0	240,0	0,76
517.2344	45		22,0	74,0	240,0	0,95
517.0946	46		22,5	75,0	240,0	0,97
517.2345	47		22,0	74,0	240,0	0,95
517.0950	50		23,5	80,0	250,0	1,16
517.0955	55		25,0	87,5	270,0	1,52
517.2346	58		26,0	93,0	283,0	1,62
517.0960	60		26,0	93,5	270,0	1,46
517.2347	63		30,0	102,0	300,0	2,06
517.0965	65		29,0	101,0	290,0	2,18
517.0970	70		32,5	109,5	320,0	2,40
517.0975	75		34,0	114,5	325,0	2,76
517.0980	80		35,0	123,0	345,0	4,00
517.0985	85		37,0	129,0	360,0	4,86
517.0990	90		41,5	152,0	400,0	5,88
517.0995	95		41,5	152,0	400,0	5,88
517.0996	100		41,5	152,0	400,0	6,76
517.1905	105		47,5	172,0	435,0	6,53
517.1910	110		47,5	172,0	435,0	8,60
517.1915	115		47,5	172,0	435,0	8,60
517.1920	120		54,0	182,0	480,0	13,20
517.1925	125		54,0	182,0	480,0	13,20

	mm		A mm	B mm	L mm	kg
517.1930	130		58,0	202,0	520,0	13,80
517.1935	135		58,0	202,0	520,0	13,80
517.1940	140		58,0	202,0	520,0	13,80
517.1945	145		64,0	228,0	580,0	19,20
517.1950	150		64,0	228,0	580,0	19,20
517.1955	155		64,0	228,0	580,0	19,20
517.1960	160		64,0	228,0	580,0	19,20
517.1965	165		70,0	265,0	650,0	28,60
517.1970	170		70,0	265,0	650,0	28,60
517.1975	175		70,0	265,0	650,0	28,60
517.1980	180		70,0	265,0	650,0	34,00
517.1985	185		75,0	290,0	700,0	33,50
517.1990	190		75,0	290,0	700,0	33,00
517.1995	195		75,0	290,0	700,0	32,50
517.2900	200		75,0	290,0	700,0	32,00
517.2905	205		80,0	320,0	750,0	38,50
517.2910	210		80,0	320,0	750,0	38,00
517.2915	215		80,0	320,0	750,0	38,70
517.2920	220		80,0	320,0	750,0	37,50
517.2930	230		80,0	320,0	750,0	36,00
517.2348		1"	15,0	43,0	165,0	0,23
517.2951		1.1/16"	15,5	47,0	180,0	0,35
517.2954		1.1/8"	15,5	47,0	180,0	0,35
517.2955		1.3/16"	16,5	51,5	190,0	0,47
517.2953		1.1/4"	16,5	51,5	190,0	0,53
517.2958		1.5/16"	16,5	53,0	195,0	0,47
517.2957		1.3/8"	16,5	53,0	195,0	0,57
517.2960		1.7/16"	19,5	60,0	205,0	0,57
517.2952		1.1/2"	19,5	60,0	205,0	0,57
517.2962		1.9/16"	20,5	66,0	225,0	0,76
517.2959		1.5/8"	20,5	66,0	225,0	0,76
517.2963		1.11/16"	20,5	66,0	225,0	0,76
517.2956		1.3/4"	20,5	66,0	225,0	0,95
517.2964		1.13/16"	22,5	75,0	240,0	0,95
517.2961		1.7/8"	22,5	75,0	240,0	0,95
517.2965		1.15/16"	23,5	80,0	250,0	1,12
517.2966		2"	23,5	80,0	250,0	1,12
517.2967		2.1/16"	23,5	80,0	250,0	1,12
517.2970		2.1/8"	23,5	80,0	250,0	1,56
517.2971		2.3/16"	25,0	87,5	270,0	1,56
517.2969		2.1/4"	25,0	87,5	270,0	1,56
517.2974		2.5/16"	26,0	93,5	270,0	1,63
517.2973		2.3/8"	26,0	93,5	270,0	1,63
517.2976		2.7/16"	26,0	93,5	270,0	1,63
517.2968		2.1/2"	29,0	101,0	290,0	2,06
517.2978		2.9/16"	29,0	101,0	290,0	2,06
517.2975		2.5/8"	29,0	101,0	290,0	2,06
517.2972		2.3/4"	32,5	109,5	320,0	3,00
517.2979		2.13/16"	32,5	109,5	320,0	3,00
517.2977		2.7/8"	32,5	109,5	320,0	3,00
517.2980		2.15/16"	34,0	114,5	325,0	3,00
517.2981		3"	34,0	114,5	325,0	3,00
517.2984		3.1/8"	35,0	123,0	345,0	4,00
517.2983		3.1/4"	36,0	126,0	360,0	4,00
517.2986		3.3/8"	36,0	126,0	360,0	4,00
517.2982		3.1/2"	40,0	142,0	390,0	4,00
517.2987		3.5/8"	40,0	142,0	390,0	5,40
517.2985		3.3/4"	41,5	152,0	400,0	5,74
517.2988		3.7/8"	45,0	155,0	420,0	5,40
517.2989		4"	45,0	155,0	420,0	6,53
517.2992		4.1/8"	45,0	155,0	420,0	6,53
517.2991		4.1/4"	48,0	170,0	450,0	8,60
517.2990		4.1/2"	48,0	170,0	450,0	8,60
517.2993		4.3/4"	54,0	182,0	480,0	13,20
517.2994		5"	54,0	182,0	480,0	13,20
517.2995		5.1/8"	58,0	202,0	520,0	13,30
517.2997		5.3/8"	58,0	202,0	520,0	13,80
517.2996		5.3/4"	64,0	228,0	580,0	19,20
517.2998		6"	64,0	228,0	580,0	19,20

Striking-face box wrench, deep type

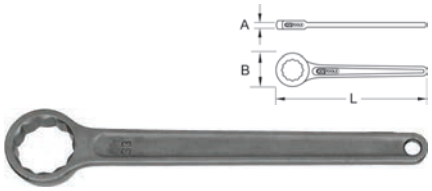
- FlankTraction profile
- DIN 7444
- With impact area
- For heavy duty applications
- Phosphate finish
- Chrome vanadium



	mm	A mm	B mm	L mm	kg
517.9332	32	21,0	54,0	180,0	0,56
517.9336	36	24,0	59,0	210,0	0,77
517.9341	41	29,0	63,5	230,0	1,26
517.9346	46	32,0	75,0	254,0	1,74
517.9350	50	35,0	84,0	279,0	2,25
517.9355	55	37,0	94,0	305,0	3,16
517.9360	60	42,0	97,0	343,0	3,89
517.9365	65	46,0	105,0	356,0	4,90
517.9370	70	48,0	117,5	394,0	6,53
517.9375	75	51,0	133,0	457,0	8,33
517.9380	80	51,0	133,0	457,0	8,66
517.9385	85	51,0	133,0	457,0	8,27
517.9390	90	51,0	133,0	457,0	8,77
517.9395	95	58,0	152,0	483,0	9,70
517.9301	100	58,0	152,0	483,0	9,90
517.9302	105	52,0	168,0	495,0	11,70
517.9303	110	52,0	168,0	495,0	12,13
517.9304	115	70,0	178,0	533,0	14,63
517.9305	120	70,0	178,0	533,0	14,78

Single-end box wrench, straight

- FlankTraction profile
- In accordance with DIN 3111
- Chrome vanadium



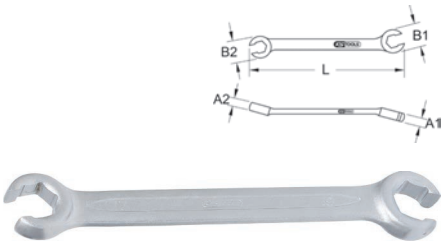
	mm		A mm	B mm	L mm	kg
517.2521	13		8,3	25,0	138,0	0,05
517.2522	14		8,3	25,0	138,0	0,05
517.2523	15		8,3	25,0	138,0	0,05
517.2524	16		8,3	25,0	138,0	0,05
517.2525	17		9,5	31,0	155,0	0,08
517.2526	18		9,5	31,0	155,0	0,08
517.2527	19		11,5	34,0	171,0	0,10
517.2528	20		11,5	34,0	171,0	0,10
517.2529	21		11,5	34,0	171,0	0,10
517.2531	22		13,0	37,5	190,0	0,14
517.2532	24		15,0	38,5	215,0	0,16
517.2533	25		15,0	38,5	215,0	0,16
517.2534	26		15,0	38,5	215,0	0,16
517.2535	27		16,0	41,5	230,0	0,20
517.2536	28		16,0	41,5	230,0	0,20
517.2537	29		16,0	41,5	230,0	0,20
517.2538	30		18,0	47,5	254,0	0,28
517.2539	32		19,0	49,0	265,0	0,35
517.2541	33		19,0	49,0	265,0	0,35
517.2542	34		19,0	49,0	265,0	0,35
517.2543	36		22,0	56,0	295,0	0,49
517.2544	38		22,0	56,0	295,0	0,49
517.2546	41		25,0	63,5	330,0	0,70
517.2547	43		25,0	63,5	330,0	0,70
517.2548	44		25,0	63,5	330,0	0,70
517.2549	46		27,0	70,5	365,0	0,96
517.2551	47		27,0	70,5	365,0	0,96

	mm		A mm	B mm	L mm	kg
517.2552	50		28,0	77,0	400,0	1,26
517.2553	52		28,0	77,0	400,0	1,26
517.2554	55		29,5	83,5	442,0	1,59
517.2555	56		29,5	83,5	442,0	1,59
517.2556	57		29,5	83,5	442,0	1,59
517.2557	58		29,5	83,5	442,0	1,59
517.2558	60		30,0	89,5	475,0	1,82
517.2559	65		32,0	97,0	510,0	2,22
517.2561	70		35,0	106,0	555,0	3,00
517.2562	75		38,0	114,0	590,0	3,39
517.2563	76		38,0	114,0	590,0	3,40
517.2564	80		40,0	120,5	620,0	4,10
517.2565	85		42,0	127,5	665,0	4,65
517.2566	90		45,0	135,5	698,0	5,10
517.2567	95		45,0	140,0	700,0	5,60
517.2568		13/16"	11,5	34,0	171,0	0,10
517.2569		7/8"	13,0	37,5	190,0	0,14
517.2572		1.1/16"	16,0	41,5	230,0	0,16
517.2573		1.1/8"	16,0	41,5	230,0	0,20
517.2574		1.1/4"	19,0	49,0	265,0	0,20
517.2575		1.5/16"	19,0	49,0	265,0	0,35
517.2576		1.3/8"	19,0	49,0	265,0	0,35
517.2577		1.1/2"	22,0	56,0	295,0	0,49
517.2578		1.5/8"	25,0	63,5	330,0	0,70
517.2581		1.13/16"	27,0	70,5	365,0	0,70
517.2582		1.7/8"	27,0	70,5	365,0	0,96
517.2583		2"	28,0	77,0	400,0	0,96
517.2584		2.1/4"	29,5	83,5	442,0	1,26
517.2585		2.3/8"	30,0	89,5	475,0	1,59
517.2586		2.1/2"	30,0	89,5	475,0	1,82
517.2587		2.5/8"	32,0	97,0	510,0	1,82
517.2588		2.3/4"	35,0	106,0	555,0	2,22
517.2589		2.15/16"	38,0	114,0	590,0	3,39
517.2591		3"	38,0	114,0	590,0	3,39
517.2592		3.1/8"	40,0	120,5	620,0	4,10

OPEN DOUBLE RING SPANNERS

Open double ring spanner, offset

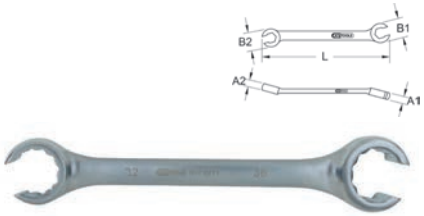
- 6 point
- DIN 3118
- Jaw 15° offset
- Opening 15° cranked
- Chrome vanadium



	mm		A1 mm	A2 mm	B1 mm	B2 mm	L mm	g
517.0252	8x10		6,6	6,7	17,6	19,8	143,0	45
517.0253	9x11		7,6	7,4	21,3	22,9	152,0	50
517.0254	10x11		7,6	7,4	21,3	22,9	152,0	60
517.0255	10x12		7,6	7,4	21,3	22,9	152,0	80
517.9244	11x13		9,0	10,0	21,5	24,0	170,0	95
517.0257	12x13		8,8	9,0	23,1	23,8	156,0	100
517.0258	12x14		10,0	9,9	25,3	27,6	178,0	110
517.9247	13x14		9,0	11,0	23,5	26,0	190,0	115
517.9252	13x15		10,5	11,8	26,0	29,0	180,0	118
517.0260	14x15		11,4	11,5	30,0	32,1	196,0	120
517.9248	14x16		11,0	14,0	25,0	29,0	200,0	135
517.0261	14x17		11,4	11,5	30,0	32,1	196,0	140
517.0263	16x18		11,4	11,5	30,0	32,1	196,0	160
517.0264	17x19		11,4	11,5	30,0	32,1	196,0	180
517.0265	19x21		13,5	13,1	34,1	37,6	207,0	240
517.0266	19x22		13,5	13,1	34,1	37,6	207,0	240
517.9251	21x23		16,5	18,0	37,0	40,0	245,0	310
517.0267	22x24		13,5	17,0	37,6	46,0	252,0	320
517.0268	24x27		17,0	16,2	46,0	42,3	264,0	430
517.0269	30x32		22,4	20,4	46,3	44,8	283,0	700
517.9255		5/16"x3/8"	6,5	8,0	18,0	20,0	140,0	42
517.9256		9/16"x5/8"	11,2	12,2	28,0	32,0	195,0	120
517.9257		5/8"x3/4"	12,2	13,2	32,0	35,0	210,0	185
517.9258		7/8"x1"	15,2	16,2	41,0	45,0	250,0	325

Open double ring spanner, offset

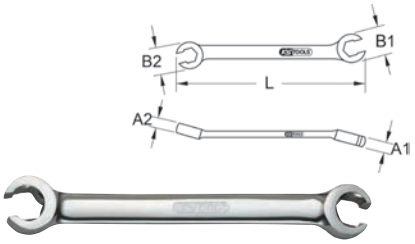
- 12 point
- DIN 3118
- Jaw 10-15° offset
- Opening 10-15° cranked
- Chrome vanadium



	mm	A1 mm	A2 mm	B1 mm	B2 mm	L mm	g	
460.2511	17x19	12,0	13,0	30,0	33,0	220,0	250	
517.0271	32x36	25,0	23,0	58,0	51,0	315,0	640	
517.0272	36x41	27,0	25,0	65,0	58,0	350,0	820	

CHROME*plus*® Open double ring spanner, offset

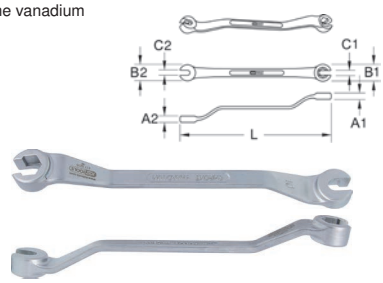
- 6 point
- DIN 3118
- Jaw 15° offset
- Opening 15° cranked
- Mirror polished
- Chrome vanadium



	mm		A1 mm	A2 mm	B1 mm	B2 mm	L mm	g	
518.0511	6x8		6,6	6,7	17,6	19,8	143,0	50	
518.0512	8x12		6,7	7,4	19,8	21,3	147,0	50	
518.0513	9x11		7,6	7,4	21,3	22,9	152,0	60	
518.0523	10x11		7,6	7,4	21,3	22,9	152,0	60	
518.0514	10x12		7,6	7,4	21,3	22,9	152,0	60	
518.0524	12x13		8,8	9,0	23,1	23,8	156,0	80	
518.0515	13x14		10,0	9,9	25,3	25,3	178,0	120	
518.0525	14x15		11,4	11,5	30,0	30,0	196,0	170	
518.0526	14x17		11,4	11,5	30,0	30,0	196,0	170	
518.0516	15x17		11,4	11,5	30,0	30,0	196,0	170	
518.0517	16x18		11,4	11,5	30,0	30,0	196,0	170	
518.0518	17x19		11,4	11,5	30,0	30,0	196,0	170	
518.0519	19x21		13,5	13,1	34,1	34,1	207,0	220	
518.0520	19x22		13,5	13,1	34,1	34,1	207,0	220	
518.0521	24x27		17,0	16,2	46,0	46,0	264,0	360	
518.0522	30x32		22,4	20,4	46,3	46,3	283,0	480	
518.0501		1/4"x5/16"	6,6	6,7	17,6	19,8	143,0	50	
518.0503		3/8"x7/16"	7,6	7,4	21,3	22,9	152,0	60	
518.0506		7/16"x1/2"	8,8	9,0	23,1	23,8	158,0	80	
518.0504		1/2"x9/16"	10,0	9,9	25,3	27,6	178,0	120	
518.0505		5/8"x11/16"	11,4	11,5	30,0	32,1	196,0	170	
518.0507		3/4"x7/8"	13,5	13,1	34,1	37,6	207,0	220	

CHROME*plus*® Open double ring spanner set, offset

- 6 point
- Ring head 30° offset
- Spanner has double sized head
- Heavy duty head
- For brake pipe couplers
- No slippage
- Mirror polished
- Chrome vanadium

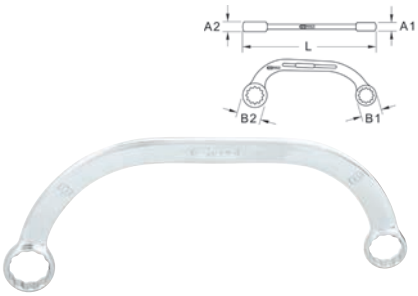


	mm	A1 mm	A2 mm	B1 mm	B2 mm	C1 mm	C2 mm	L mm	g	
517.0270	10x11	10,5	11,2	17,8	20,0	6,0	6,1	175,0	80	

DOUBLE RING SPANNERS

CHROME*plus*® Starter and block spanner

- FlankTraction profile
- Suitable for narrow spaces
- Mirror polished
- Chrome vanadium



	mm		A1 mm	A2 mm	B1 mm	B2 mm	g	
518.0852	10x12		7,5	8,5	16,5	19,8	60	

	mm		A1 mm	A2 mm	B1 mm	B2 mm	g	
518.0853	11x13		7,5	8,5	16,8	19,8	98	
518.2355	12x13		8,5	9,2	20,5	23,5	98	
518.2363	12x14		8,5	9,2	20,5	23,5	98	
518.2356	13x15		8,5	9,2	20,5	23,5	98	
518.2364	13x16		9,0	9,2	22,7	25,5	110	
518.2358	14x16		9,0	9,2	22,7	25,8	122	
518.0856	14x17		9,0	9,2	22,7	25,8	129	
518.2359	15x17		9,5	10,2	25,5	28,5	152	
518.0857	16x18		9,5	10,2	25,5	28,5	171	
518.2361	17x19		9,5	10,2	25,5	28,5	171	
518.2367	18x21		10,0	11,5	28,8	33,0	210	
518.2362	19x21		10,0	11,5	28,8	33,0	215	
518.0859	19x22		10,0	11,5	28,8	33,0	244	
518.2365		5/8"x3/4"	9,5	10,2	25,5	28,5	171	
518.2366		3/4"x7/8"	10,0	11,5	28,8	33,0	240	

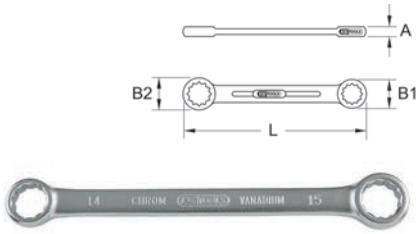
CHROME*plus*® half moon - and manifold spanner set

- FlankTraction profile
- Suitable for narrow spaces
- Mirror polished
- Chrome vanadium

			g	
518.0850	5 pcs	10x12 - 11x13 - 14x17 - 16x18 - 19x22 mm	890	

ULTIMATE*plus* double ring ended spanner

- FlankTraction profile
- In accordance to DIN ISO
- Straight form
- Matt finish
- Chrome vanadium



	mm	A mm	B1 mm	B2 mm	L mm	g	
920.0406	6x7	4,5	10,0	11,5	99,0	10	
920.0408	8x9	5,2	13,0	11,5	114,0	15	
920.0410	10x11	5,8	16,0	17,0	131,0	28	
920.0412	12x13	6,4	19,0	20,5	149,0	35	
920.0414	14x15	7,2	21,5	23,0	161,0	50	
920.0416	16x17	7,8	24,5	25,5	169,0	65	
920.0417	17x19	8,5	25,5	28,0	186,0	80	
920.0418	18x19	8,5	27,0	28,0	186,0	80	
920.0419	19x22	9,4	28,0	32,5	209,0	115	
920.0420	20x22	9,4	29,5	32,5	209,0	120	
920.0421	21x23	10,0	30,5	33,5	233,0	145	
920.0422	22x24	10,0	32,5	35,5	233,0	150	
920.0424	24x26	10,8	35,5	38,0	261,0	190	
920.0425	24x27	10,8	35,5	39,0	260,0	200	
920.0426	25x28	11,6	36,5	41,0	289,0	240	
920.0427	27x32	12,6	39,0	46,0	320,0	320	
920.0430	30x32	12,6	43,5	46,0	320,0	340	

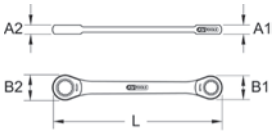
ULTIMATE*plus* straight double open ended spanner set

- FlankTraction profile
- In accordance to DIN ISO
- Straight form
- Matt finish
- Chrome vanadium

			kg
920.0448	8 pcs	6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17 - 18x19 - 20x22 mm	0,66
920.0450	12 pcs	6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17 - 18x19 - 20x22 - 21x23 - 24x27 - 25x28 - 30x32 mm	1,69

GEAR*plus*® Double ratchet ring spanner

- FlankTraction profile
- In accordance to DIN 3110 / ISO 3318
- Straight form
- Exact gearing with 72 teeth
- Mirror polished
- Chrome vanadium



	mm		A1 mm	A2 mm	B1 mm	B2 mm	L mm	g
503.4502	8x9		6,5	6,9	16,8	20,2	128,0	60
503.4511	8x10		7,3	6,5	20,0	17,0	128,0	40
503.4503	10x11		7,3	7,7	20,2	20,2	150,0	80
503.4512	10x13		7,3	8,6	20,2	20,2	150,0	80
503.4504	12x13		8,2	8,6	23,0	23,0	170,0	100
503.4505	14x15		9,0	9,4	26,5	26,5	190,0	140
503.4506	16x18		9,9	10,7	29,5	29,5	210,0	180
503.4507	17x19		10,3	11,2	31,5	31,5	230,0	220
503.4402		5/16"x3/8"	6,5	7,3	16,8	20,2	128,0	40
503.4403		7/16"x1/2"	7,7	8,6	23,0	24,8	170,0	80
503.4404		9/16"x5/8"	9,0	9,9	26,5	29,5	190,0	125
503.4405		11/16"x3/4"	10,3	11,2	31,5	33,5	230,0	200

GEAR*plus*® double ratchet ring spanner set

- FlankTraction profile
- In accordance to DIN 3310 / ISO 3318
- Straight form
- Exact gearing with 72 teeth
- Mirror polished
- Chrome vanadium

			g
503.4552	2 pcs	10x13 - 17x19 mm	335

GEAR*plus*® double ratchet ring spanner set

- FlankTraction profile
- In accordance to DIN 3310 / ISO 3318
- Straight form
- Exact gearing with 72 teeth
- Mirror polished
- Chrome vanadium
- Supplied in a leather pouch

			g
503.4557	6 pcs	8x 9 - 10x11 - 12x13 - 14x15 - 16x18 - 17x19 mm	900

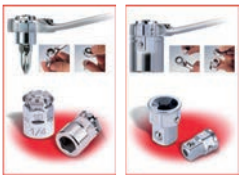
GEAR*plus*® double ratchet ring spanner set

- FlankTraction profile
- In accordance to DIN 3310 / ISO 3318
- Straight form
- Exact gearing with 72 teeth
- Mirror polished
- Chrome vanadium
- In durable plastic storage case

			g
503.4556	6 pcs	8x 9 - 10x11 - 12x13 - 14x15 - 16x18 - 17x19 mm	790

GEAR*plus*® double ratchet ring spanner set

- FlankTraction profile
- In accordance to DIN 3310 / ISO 3318
- Straight form
- Exact gearing with 72 teeth
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- For bits to DIN 3126 / C 6,3
- Mirror polished
- Chrome vanadium
- In durable plastic storage case

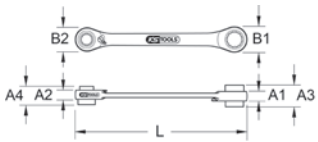


1/4" 3/8" 1/2"

			kg
503.4560	10 pcs	GEAR*plus*® double ratchet ring spanner set	1,20
6 x		8x9 - 10x11 - 12x13 - 14x15 - 16x18 17x19 mm	
1 x		1/4"	
3 x		1/4" - 3/8" - 1/2"	

4 in 1 GEARplus® flexible reversing double ratchet ring spanner

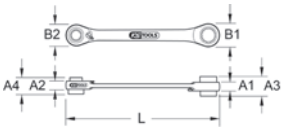
- FlankTraction profile
- Straight form
- Exact gearing with 72 teeth
- With flexible head
- Four different sizes on each spanner
- With reversing lever
- High quality finish
- Chrome vanadium



	mm	A1 mm	A2 mm	A3 mm	A4 mm	B1 mm	B2 mm	L mm	g
503.4745	10x13-17x19	11,2	9,0	22,0	17,1	33,7	27,0	253,0	196

4 in 1 GEAR*plus*® reversing double ratchet ring spanner

- FlankTraction profile
- Straight form
- Exact gearing with 72 teeth
- Four different sizes on each spanner
- With reversing lever
- High quality finish
- Chrome vanadium

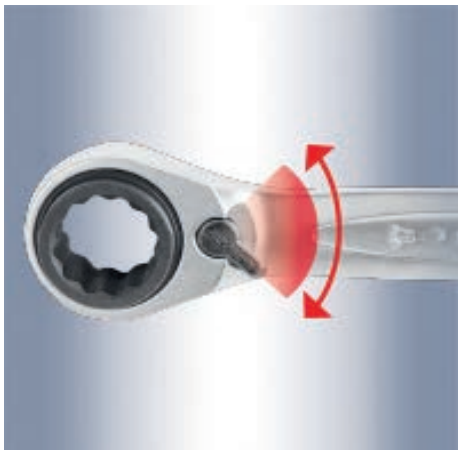


	mm	A1 mm	A2 mm	A3 mm	A4 mm	B1 mm	B2 mm	L mm	g
503.4541	8x11-9x10	7,7	7,3	14,6	13,8	21,8	20,0	150,0	68
503.4656	8x10-12x13	8,6	7,3	16,8	13,8	24,8	16,8	150,0	86
503.4543	12x15-13x14	9,4	9,0	18,0	17,1	29,5	18,0	190,0	147
503.4565	10x19-13x17	11,2	9,0	21,9	17,1	33,6	21,9	190,0	196
503.4546	16x19-17x18	11,2	10,3	21,9	20,2	33,5	21,9	230,0	244
503.4657	14x17-18x19	11,2	10,3	21,9	19,3	33,5	21,9	230,0	245
503.4553	21x27-22x24	16,0	13,0	30,0	26,0	52,0	40,0	275,0	610
503.4554	30x36-32x34	18,0	18,0	36,0	35,0	65,0	62,0	360,0	1400

4 in 1 GEAR*plus*® reversing double ratchet ring spanner

- FlankTraction profile
- Straight form
- Exact gearing with 72 teeth
- Four different sizes on each spanner
- With reversing lever
- High quality finish
- Chrome vanadium

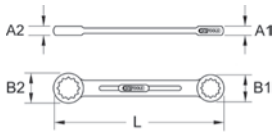
			g
503.4655	2 pcs	8x10 - 12x13 - 14x17 - 18x19 mm	340
503.4540	3 pcs	8x11 - 9x10 - 12x15 - 13x14 - 16x19 - 17x18 mm	550
503.4550	2 pcs	21x27 - 22x24 - 30x36 - 32x34 mm	2010



OPEN DOUBLE RING SPANNERS, EXTRA LONG

CHROME*plus*® double ring spanner, extra long

- FlankTraction profile
- Thin walled
- Mirror polished
- Chrome molybdenum



	mm	A1 mm	A2 mm	B1 mm	B2 mm	L mm	g
518.1802	6x8	11,6	10,2	7,3	6,3	197,0	60
518.0821	8x10	7,5	8,4	12,5	15,0	235,0	72
518.0822	10x11	8,5	9,5	14,3	17,0	291,0	95
518.0823	12x14	10,4	11,3	17,8	20,3	328,0	157
518.0824	13x15	11,5	13,2	20,2	23,3	386,0	217
518.0825	16x18	13,0	14,8	23,7	26,6	407,0	284
518.0826	17x19	13,0	14,8	23,7	26,6	407,0	284
518.1806	18x19	26,5	25,3	15,1	15,1	401,0	380
518.0827	20x21	13,5	15,2	27,5	29,7	415,0	376
518.1809	20x22	31,0	28,5	17,0	16,7	421,0	460
518.0828	22x24	15,4	17,7	31,3	34,0	430,0	482

CHROME*plus*® double ring spanner set, extra long

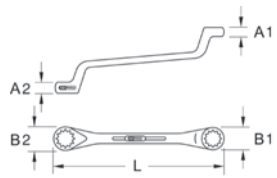
- FlankTraction profile
- Thin walled
- Mirror polished
- Chrome molybdenum

			kg
518.0800	6 pcs	10x11 - 12x14 - 13x15 - 16x18 - 17x19 - 22x24 mm	2,06

OPEN DOUBLE RING SPANNERS, OFFSET

Double ring spanner, offset

- FlankTraction profile
- DIN 838 / ISO 1085 / ISO 10104 / ISO 3318
- Ring head 75° offset
- Thin walled
- Polished heads
- Matt finish
- Chrome vanadium



	mm		A1 mm	A2 mm	B1 mm	B2 mm	kg
517.0836	5,5x7		6,4	5,9	12,0	10,5	0,04
517.0801	6x7		5,2	5,6	10,3	11,8	0,05
517.0802	8x9		6,3	6,4	12,9	14,2	0,08
517.0837	8x10		7,7	6,8	16,6	13,6	0,06
517.0838	9x10		7,7	7,3	16,6	15,0	0,08
517.0839	9x11		8,2	7,3	18,1	15,1	0,06
517.0804	10x11		7,2	7,5	16,0	16,9	0,11
517.0841	10x12		9,2	7,7	21,2	16,7	0,08
517.0806	10x13		7,2	9,0	16,0	20,0	0,12
517.0843	10x14		9,6	7,7	22,6	16,7	0,12
517.0842	11x13		9,2	8,7	21,2	20,0	0,12
517.0844	11x14		9,6	8,7	22,6	20,0	0,12
517.0807	12x13		8,2	9,0	18,5	20,0	0,14
517.0845	12x14		9,6	8,7	22,6	20,0	0,12
517.0846	13x14		9,6	9,2	24,0	21,1	0,15
517.0847	13x15		9,6	9,2	24,0	21,1	0,17
517.0808	13x17		9,0	11,0	20,0	25,2	0,22
517.0809	14x15		9,5	10,0	21,5	22,9	0,18
517.0835	14x17		9,5	11,0	21,5	25,2	0,21
517.0810	16x17		10,3	11,0	24,7	25,2	0,22
517.0848	16x18		11,1	10,5	28,0	25,7	0,20
517.0811	17x19		11,0	11,2	25,2	28,0	0,27
517.0812	18x19		10,6	11,2	26,1	28,0	0,27
517.0814	19x22		11,2	12,5	28,0	32,2	0,33
517.0852	19x24		13,2	19,2	37,3	29,8	0,35
517.0813	20x22		11,7	12,5	30,5	32,2	0,30
517.0815	21x23		12,2	12,5	30,7	33,8	0,41
517.0853	21x24		13,2	12,2	37,3	32,7	0,34
517.0854	22x24		13,2	12,5	37,3	34,3	0,34
517.0856	24x26		14,3	13,2	41,0	37,3	0,42
517.0816	24x27		12,7	13,7	36,0	40,0	0,43
517.0817	24x30		12,7	14,5	36,0	42,5	0,53
517.0857	25x28		14,7	13,6	43,3	37,3	0,46
517.0858	27x29		15,1	14,3	45,4	39,5	0,46
517.0859	27x30		15,1	14,3	45,4	40,8	0,47
517.0819	27x32		13,7	15,1	40,0	46,0	0,66
517.0818	30x32		14,5	15,1	42,5	46,0	0,66
517.0861	30x34		15,0	17,0	45,0	53,0	0,76
517.0862	30x36		15,0	17,0	45,0	53,0	0,74
517.0821	32x36		15,1	17,0	46,0	52,0	0,89
517.0825	36x41		17,7	19,7	53,2	61,1	1,15
517.0826	41x46		20,4	22,2	62,0	75,5	1,43
517.0827	46x50		22,2	23,6	68,9	91,8	1,96
517.0863	55x60		25,0	26,0	86,0	94,0	3,20
517.0864	65x70		27,0	28,0	103,0	110,0	4,70
517.0865	75x80		29,0	30,0	121,0	127,0	7,40
517.0866	85x90		29,0	30,0	121,0	127,0	7,20
517.0881		1/4x5/16"	8,3	6,4	13,5	12,1	0,05
517.0882		5/16x3/8"	7,3	6,8	15,1	12,1	0,06
517.0883		3/8x7/16"	8,2	7,7	18,1	16,6	0,06
517.0884		7/16x1/2"	9,2	8,7	21,2	20,0	0,10
517.0885		1/2x9/16"	9,6	9,2	24,0	21,1	0,12
517.0886		9/16x19/32"	10,1	9,6	25,0	22,4	0,14
517.0887		9/16x5/8"	10,8	10,5	27,5	25,7	0,18
517.0888		19/32x11/16"	10,8	10,5	27,5	25,7	0,20
517.0889		11/16x3/4"	11,4	11,1	30,0	28,0	0,24
517.0891		5/8x3/4"	11,4	10,5	30,0	25,7	0,24
517.0892		3/4x25/32"	11,8	11,4	32,2	30,0	0,24
517.0893		3/4x7/8"	12,5	11,4	34,3	39,8	0,28
517.0894		13/16x7/8"	12,5	11,8	34,3	32,0	0,28
517.0895		15/16x1"	14,3	13,2	41,0	37,3	0,44
517.0896		1.1/16x1.1/4"	15,5	13,2	45,9	37,3	0,60

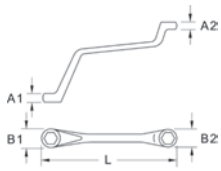
Double ring spanner set, offset

- 12 point
- DIN 838 / ISO 1085 / ISO 10104 / ISO 3318
- Ring head 75° offset
- Thin walled
- Polished heads
- Matt finish
- Chrome vanadium

			kg
517.0295	5 pcs	8x9 - 10x11 - 12x13 - 16x17 - 18x19 mm	0,76
517.0248	8 pcs	6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17 - 18x19 - 20x22 mm	1,12
517.0222	11 pcs	6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17 - 18x19 - 20x22 - 21x23 - 24x27 - 30x32 mm	2,93
517.0250	12 pcs	6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17 - 18x19 - 20x22 - 21x23 - 24x27 - 25x28 - 30-32 mm	3,27

Brake bleeding spanner

- 6 point
- Ideally suited to brake bleed screws
- Ring head cranked and offset
- For bleeding the brakes without dismantling of the wheels
- Matt finish
- Chrome vanadium



	mm	A1 mm	A2 mm	B1 mm	B2 mm	L mm	g
518.0307	7	5,3	5,6	12,9	12,1	190,0	60
518.0308	8	7,5	7,0	16,0	15,8	211,0	130
518.0309	9	7,4	6,9	16,0	15,9	211,0	130
518.0310	10	7,3	7,1	17,5	16,9	236,0	135
518.0311	11	7,2	7,0	17,3	16,9	236,0	135

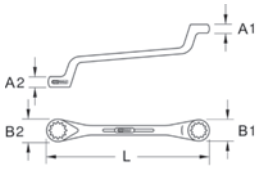
Brake bleeding spanner set

- 6 point
- Ideally suited to brake bleed screws
- Ring head cranked and offset
- For bleeding the brakes without dismantling of the wheels
- Matt finish
- Chrome vanadium
- Supplied in a leather pouch

			kg
518.0300	5 pcs	7 - 8 - 9 - 10 - 11 mm	1,20

CHROME*plus*® Double ring spanner, offset

- FlankTraction profile
- DIN 838 / ISO 3318 / ISO 1085 / ISO 10104
- Ring head 75° offset
- Thin walled
- Mirror polished
- Chrome vanadium



	mm		A1 mm	A2 mm	B1 mm	B2 mm	L mm	g
518.0801	6x7		5,9	6,6	10,2	12,5	168,0	52
518.0802	8x9		7,0	7,1	13,7	15,5	183,0	68
518.0804	10x11		7,5	7,5	16,8	18,2	198,0	92
518.0807	12x13		8,3	7,8	19,8	21,6	217,0	139
518.0809	14x15		9,0	9,1	22,7	24,7	239,0	167
518.0810	16x17		9,2	9,5	25,3	26,0	260,0	198
518.0811	17x19		10,3	10,8	28,6	29,8	292,0	263
518.0812	18x19		10,3	10,8	28,6	29,8	292,0	263
518.0814	20x22		10,4	11,4	31,1	34,6	318,0	319
518.0815	21x23		10,8	11,9	32,5	35,6	327,0	352
518.0816	24x27		11,8	13,7	36,5	41,4	339,0	466
518.0818	30x32		13,1	14,6	46,1	49,3	362,0	607
518.3101		1/4"x5/16"	5,4	6,0	10,8	13,1	165,0	40
518.3102		5/16"x3/8"	6,4	7,0	14,7	16,2	170,0	58
518.3103		3/8"x7/16"	6,9	7,6	16,3	18,6	195,0	73
518.3104		1/2"x9/16"	8,6	9,0	19,8	21,0	206,0	116
518.3105		9/16"x5/8"	8,8	9,3	21,4	24,8	232,0	134
518.3106		5/8"x11/16"	10,2	10,4	24,3	26,2	237,0	191
518.3107		11/16"x3/4"	11,1	11,6	27,8	29,3	270,0	269
518.3108		3/4"x7/8"	11,4	12,0	28,7	32,4	292,0	327
518.3109		7/8"x15/16"	11,6	12,3	21,1	34,4	327,0	345
518.3110		13/16"x7/8"	11,6	12,3	21,1	34,4	327,0	345
518.3111		15/16"x1"	14,0	14,1	34,4	36,5	362,0	517
518.3112		1"x1.1/8"	13,7	15,2	39,6	42,1	372,0	625
518.3113		1.1/8"x1.1/4"	17,2	18,6	44,4	48,3	392,0	880

CHROME*plus*® double ring ended spanner set

- FlankTraction profile
- DIN 838 / ISO 3318 / ISO 1085 / ISO 10104
- Ring head 75° offset
- Thin walled
- Mirror polished
- Chrome vanadium

			kg
518.0847	7 pcs	8x9 - 10x11 - 12x13 - 14x15 - 16x17 - 18x19 - 20x22 mm	1,03
518.0843	3 pcs	21x23 - 24x27 - 30x32 mm	1,51
518.3120	6 pcs	1/4"x5/16" - 3/8"x7/16" - 1/2"x9/16" - 9/16"x5/8" - 11/16"x3/4" - 13/16"x7/8"	1,10
518.3100	8 pcs	1/4"x5/16" - 3/8"x7/16" - 1/2"x9/16" - 9/16"x5/8" - 11/16"x3/4" - 13/16"x7/8" - 15/16"x1" - 1.1/8"x1.1/4"	2,46

11 mm + 1/4" Go through reversing ratchet

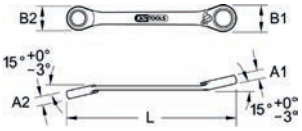
- Especially handy and compact
- Rotating assembly
- Very flat design for hard to access places
- Ratchet head offset at 15°
- Exact gearing with 72 teeth
- With reversing lever
- Matt finish
- Chrome vanadium

1/4" 11 mm

		A1 mm	A2 mm	B1 mm	B2 mm	L mm	g
918.3072	1/4" x 11 mm	10,2	9,7	17,2	14,2	115,0	45

GEAR*plus*® reversing double ratchet ring spanner

- FlankTraction profile
- In accordance to DIN 3110 / ISO 3318
- Ratchet head 15° offset
- Exact gearing with 72 teeth
- With reversing lever
- High quality finish
- Chrome vanadium



	mm	A1 mm	A2 mm	B1 mm	B2 mm	L mm	g
503.4571	8x9	6,9	6,5	20,2	16,8	128,0	60
503.4572	8x10	7,4	6,7	20,2	16,7	128,0	65
503.4573	10x11	7,7	7,3	21,8	20,2	150,0	70
503.4574	10x13	8,7	7,4	25,4	20,5	150,0	80
503.4575	12x13	8,6	8,2	24,8	23,0	170,0	100
503.4576	14x15	9,4	9,0	29,5	26,5	190,0	140
503.4577	16x18	10,7	9,9	33,5	29,5	210,0	180
503.4578	17x19	11,2	10,3	33,5	31,5	230,0	220

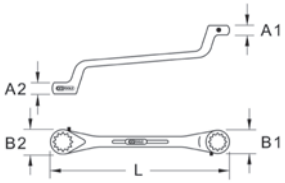
GEAR*plus*® double reversing ratchet ring spanner

- FlankTraction profile
- In accordance to DIN 3110 / ISO 3318
- Ratchet head 15° offset
- Exact gearing with 72 teeth
- With reversing lever
- High quality finish
- Chrome vanadium
- Supplied in a leather pouch

			g
503.4580	6 pcs	8x9 - 10x11 - 12x13 - 14x15 - 16x18 - 17x19 mm	790

Ratchet ring spanner, reversing

- FlankTraction profile
- In accordance to DIN 838 / ISO 1085
- Ring head 75° offset
- Reversible
- Exact gearing with 24 teeth
- Matt finish
- Chrome vanadium



	mm	A1 mm	A2 mm	B1 mm	B2 mm	L mm	g
520.1011	10x11	11,5	11,7	23,3	25,1	210,0	180
520.1214	12x14	12,1	12,4	26,4	30,8	245,0	260
520.1317	13x17	13,2	13,3	31,5	36,3	265,0	360
520.1516	15x16	14,6	14,7	33,1	34,9	260,0	420
520.1922	19x22	16,1	16,2	39,8	43,8	325,0	600
520.2427	24x27	17,7	17,9	47,4	51,6	390,0	800
520.3032	30x32	19,7	19,9	55,1	57,1	410,0	1300

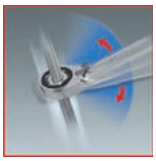
Ratchet ring spanner set, reversing

- FlankTraction profile
- In accordance to DIN 838 / ISO 1085
- Ring head 75° offset
- Reversible
- Exact gearing with 24 teeth
- Matt finish
- Chrome vanadium

			kg
520.1000	5 pcs	10x11 - 12x14 - 13x17 - 15x16 - 19x22 mm	1,85
520.1100	7 pcs	10x11 - 12x14 - 13x17 - 15x16 - 19x22 - 24x27 - 30x32 mm	4,05

GEARplus® Universal double ratchet ring spanner set

- Ratchet head 15° offset
- Exact gearing with 72 teeth
- With reversing lever
- With through inserts
- Waistband to key insert prevents slipping
- Suitable for narrow spaces
- High quality finish
- Chrome vanadium
- In durable plastic storage case

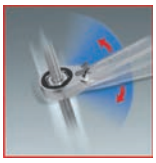


			g
503.4645	10 pcs	GEARplus® Universal double ratchet ring spanner set	500

1 x		14 x 19 mm
9 x		8 - 9 - 10 - 11 - 12 - 13 - 15 - 16 - 17 mm

GEARplus® Universal double ratchet ring spanner set

- Ratchet head 15° offset
- Exact gearing with 72 teeth
- With reversing lever
- With through inserts
- Waistband to key insert prevents slipping
- Suitable for narrow spaces
- High quality finish
- Chrome vanadium
- In durable plastic storage case



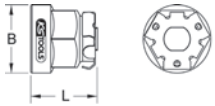
			g
503.4625	8 pcs	GEARplus® Universal double ratchet ring spanner set	500

1 x		14 x 19 mm
7 x		5/16" - 3/8" - 7/16" - 1/2" - 9/16" - 5/8" - 11/16"

ACCESSORIES

GEARplus® Bit adapter

- FlankTraction profile (12 point)
- Mirror polished
- Chrome vanadium



1/4" 5/16" 10 mm

	mm	○	B mm	L mm	g
503.4290	10,0	1/4"	11,0	15,7	6
503.4292	13,0	5/16"	15,5	15,3	11
503.4293	13,0	10 mm	21,0	21,0	17

GEARplus® Bit adapter set

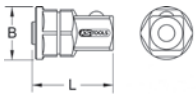
- FlankTraction profile (12 point)
- Mirror polished
- Chrome vanadium

5/16" 10 mm

			g
503.4294	2 pcs	13 mm x 5/16" - 13 mm x 10 mm	100

GEARplus® Socket adapter

- With a push button quick release function
- FlankTraction profile (12 point)
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Mirror polished
- Chrome vanadium



1/4" 3/8" 1/2"

	mm	■	B mm	L mm	g
503.4296	10 mm	1/4"	11,1	16,7	50
503.4297	13 mm	3/8"	14,5	21,7	70
503.4298	19 mm	1/2"	21,4	28,8	100

GEAR*plus*® Socket adapter set, for metric spanner

- With a push button quick release function
- Suitable for metric GEAR*plus*® spanners
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- For bits to DIN 3126 / C 6,3
- Mirror polished
- Chrome vanadium



1/4" 3/8" 1/2"

503.4286	4 pcs	GEAR*plus*® Socket adapter set, for metric spanner	270
1 x		10 mm x 1/4"	
3 x		10 mm x 1/4" - 13 mm x 3/8" - 19 mm x 1/2"	

GEAR*plus*® Socket adapter set, for imperial spanners

- With a push button quick release function
- Suitable for imperial GEAR*plus*® spanners
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- For bits to DIN 3126 / C 6,3
- Mirror polished
- Chrome vanadium

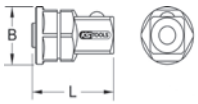


1/4" 3/8" 1/2"

503.4287	4 pcs	GEAR*plus*® Socket adapter set, for imperial spanners	100
1 x		3/8" x 1/4"	
3 x		3/8" x 1/4" - 1/2" x 3/8" - 3/4" x 1/2"	

GEAR*plus*® Socket adapter for ring stop spanner

- With a push button quick release function
- Suitable for ring stop spanners
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Mirror polished
- Chrome vanadium

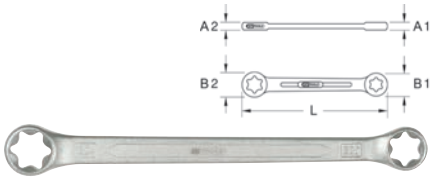
1/2"

		B mm	L mm		
503.4998	19 mm	1/2"	21,4	28,8	100

DOUBLE RING SPANNERS FOR TX E PROFILE

Double ring spanner for Torx E-Profile

- Torx-E-Profile
- Straight form
- Thin walled
- Matt finish
- Chrome vanadium



		A1 mm	A2 mm	B1 mm	B2 mm	L mm	
911.0371	E6 x E8	4,2	5,3	7,3	9,7	114,0	20
911.0372	E7 x E11	5,2	7,2	10,8	14,8	130,0	50
911.0373	E10 x E12	6,5	7,7	12,3	15,1	141,0	40
911.0374	E14 x E18	8,2	10,3	17,0	21,1	180,0	90
911.0375	E16 x E22	8,4	11,8	19,7	27,3	205,0	130
911.0376	E20 x E24	11,0	12,6	23,9	27,9	224,0	170

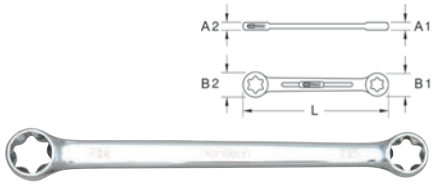
Double ring spanner set for Torx E-Profile

- Torx-E-Profile
- Straight form
- Thin walled
- Matt finish
- Chrome vanadium

911.0370	6 pcs	E6xE8 - E7xE11 - E10xE12 - E14xE18 - E16xE22 - E20xE24	585

CHROME*plus*® Double ring spanner for Torx E-Profile

- Torx-E-Profile
- Straight form
- Thin walled
- Mirror polished
- Chrome vanadium



		A1 mm	A2 mm	B1 mm	B2 mm	L mm	
518.0861	E6 x E8	4,2	5,3	7,3	9,7	114,0	17
518.0862	E10 x E12	6,5	7,7	12,3	15,1	141,0	36
518.0863	E14 x E18	8,2	10,3	17,0	21,1	180,0	88
518.0864	E20 x E24	11,0	12,6	23,9	27,9	224,0	165

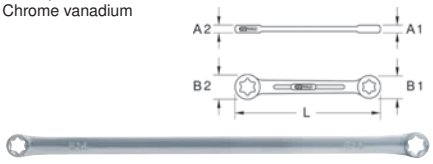
CHROME*plus*® Double ring spanner set for Torx E-Profile

- Torx-E-Profile
- Straight form
- Thin walled
- Mirror polished
- Chrome vanadium

518.0860	4 pcs	E6xE8 - E10xE12 - E14xE18 - E20xE24	410

CHROME*plus*® Double ring spanner for Torx-E profile, extra long

- Torx-E-Profile
- Thin walled
- Mirror polished
- Chrome vanadium



		A1 mm	A2 mm	B1 mm	B2 mm	L mm	
518.0931	E6 x E7	5,8	6,9	9,5	11,0	200,0	42
518.0932	E8 x E10	7,3	8,6	12,0	14,3	240,0	68
518.0933	E11 x E12	9,1	9,9	14,9	16,6	280,0	109
518.0934	E14 x E16	10,3	11,2	18,1	19,8	320,0	161
518.0935	E18 x E20	11,6	12,7	22,8	25,7	360,0	227
518.0936	E22 x E24	13,3	14,0	26,9	29,2	400,0	344

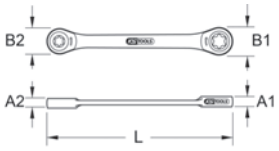
CHROME*plus*® Double ring spanner set for Torx-E profile, extra long

- Torx-E-Profile
- Thin walled
- Mirror polished
- Chrome vanadium

518.0930	6 pcs	E6-E7-E8-E10-E11-E12-E14-E16-E18-E20-E22-E24	943

GEAR*plus*® Double ring ratchet spanner for Torx E profile

- Ideally suited for the assembly and disassembly in tight-fitting areas and changing the transmission
- Torx E
- Straight form
- Exact gearing with 72 teeth
- Mirror polished
- Chrome vanadium



		A1 mm	A2 mm	B1 mm	B2 mm	L mm	
503.4351	E6 x E8	6,5	6,9	16,8	20,2	128,0	70
503.4353	E10 x E12	7,3	7,7	20,2	21,8	150,0	60
503.4355	E14 x E18	9,0	9,9	26,5	29,5	190,0	150
503.4357	E20 x E24	10,3	11,2	31,5	33,5	230,0	230

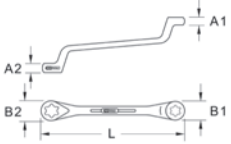
GEAR*plus*® Double ring ratcheting spanner set for Torx E profile

- Ideally suited for the assembly and disassembly in tight-fitting areas and changing the transmission
- Torx E
- Straight form
- Exact gearing with 72 teeth
- Mirror polished
- Chrome vanadium

503.4364	4 pcs	E6xE8 - E10xE12 - E14xE18 - E20xE24	475

Double ring spanner for Torx E profile, offset

- Torx-E-Profile
- Ring head 75° offset
- Thin walled
- Matt finish
- Chrome vanadium



		A1 mm	A2 mm	B1 mm	B2 mm	L mm	
911.0361	E6 x E8	5,5	6,2	10,0	12,3	147,0	32
911.0362	E7 x E11	5,6	7,0	11,3	14,5	159,0	43
911.0363	E10 x E12	5,9	6,8	13,5	15,5	175,0	50
911.0364	E14 x E18	7,7	9,3	17,3	21,7	215,0	108
911.0365	E16 x E22	8,1	11,6	20,1	27,4	234,0	157
911.0366	E20 x E24	11,3	13,3	23,5	28,2	262,0	223

Double ring spanner set for Torx E profile, offset

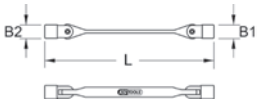
- Torx-E-Profile
- Ring head 75° offset
- Thin walled
- Matt finish
- Chrome vanadium

911.0360	6 pcs	E6xE8 - E7xE11 - E10xE12 - E14xE18 - E16xE22 - E20xE24	970

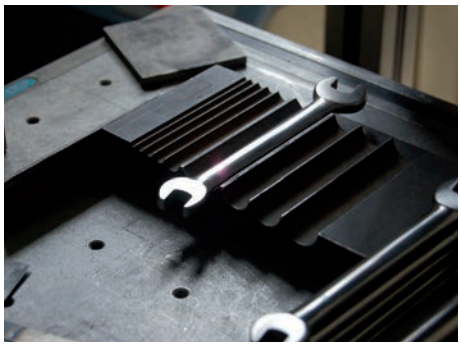
FLEXIBLE SPANNERS

Double revolving head spanner

- FlankTraction profile
- With flexible head
- Extra large pivoting range
- Suitable for narrow spaces
- Matt finish
- Chrome vanadium



	mm		B1 mm	B2 mm	L mm	
517.0300	6x7		10,5	11,2	198,0	90
517.0301	8x9		12,3	12,7	198,0	91
517.0302	10x11		14,8	15,7	216,0	118
517.0303	12x13		18,7	18,9	223,0	172
517.0344	13x17		19,0	24,0	240,0	250
517.0304	14x15		20,8	20,9	245,0	214
517.0305	16x17		22,7	23,8	257,0	282
517.0349	16x18		23,0	25,0	260,0	285
517.0345	17x19		24,0	26,0	260,0	348
517.0306	18x19		25,7	25,8	273,0	359
517.0307	20x22		27,7	30,0	297,0	486
517.0308	21x23		27,7	32,0	297,0	492
517.0346	24x27		33,0	37,0	335,0	520
517.0347	30x32		40,0	42,0	350,0	575
517.0351		3/8"x7/16	15,0	16,0	200,0	110
517.0352		1/2"x9/16	19,0	22,0	225,0	210
517.0353		5/8"x11/16	23,0	24,0	260,0	280
517.0354		11/16"x3/4	23,0	24,0	260,0	320



Double revolving head spanner set

- FlankTraction profile
- With flexible head
- Extra large pivoting range
- Suitable for narrow spaces
- Matt finish
- Chrome vanadium

517.0310	6 pcs	8x9 - 10x11 - 12x13 - 14x15 - 16x17 - 18x19 mm	1,34

Double revolving head spanner for Torx E profile

- Torx-E-Profile
- With flexible head
- Extra large pivoting range
- Suitable for narrow spaces
- Matt finish
- Chrome vanadium

		B1 mm	B2 mm	L mm	
517.0330	E6 x E8	12,9	12,9	200,0	85
517.0332	E10 x E12	14,6	16,0	220,0	130
517.0333	E14 x E16	19,1	20,9	245,0	190
517.0334	E18 x E20	21,9	22,8	255,0	270
517.0335	E22 x E24	25,9	25,9	270,0	370

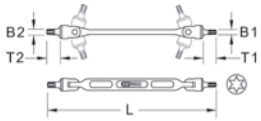
Torx E profile double headed revolving wrench set

- Torx-E-Profile
- With flexible head
- Extra large pivoting range
- Suitable for narrow spaces
- Matt finish
- Chrome vanadium

517.0340	5 pcs	E6xE8 - E10xE12 - E14xE16 - E18xE20 - E22xE24	1,00

Double revolving head spanner for Torx

- Torx
- With flexible head
- Extra large pivoting range
- Suitable for narrow spaces
- Matt finish
- Chrome vanadium



		B1 mm	B2 mm	T1 mm	T2 mm	L mm	g
517.0315	T15 x T20	14,7	14,7	7,9	7,9	225,0	110
517.0316	T25 x T27	15,0	15,0	9,0	9,0	225,0	130
517.0317	T30 x T40	14,8	14,8	8,7	8,7	225,0	150
517.0318	T45 x T50	16,9	16,9	12,4	12,4	245,0	190
517.0319	T55 x T60	17,0	17,0	13,5	13,5	245,0	250

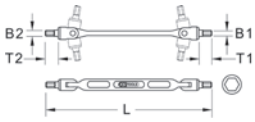
Double revolving head spanner set for Torx

- Torx
- With flexible head
- Extra large pivoting range
- Suitable for narrow spaces
- Matt finish
- Chrome vanadium

			g
517.0320	5 pcs	T15xT20 - T25xT27 - T30xT40 - T45xT50 - T55xT60	845

Hexagonal double revolving head wrench

- 6 point
- With flexible head
- Extra large pivoting range
- Suitable for narrow spaces
- Matt finish
- Chrome vanadium

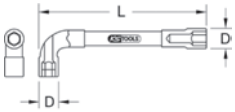


	mm	B1 mm	B2 mm	T1 mm	T2 mm	L mm	g
517.0341	3x4	15,0	15,0	5,8	4,5	205,0	115
517.0342	5x6	18,0	18,0	6,7	6,0	218,0	170
517.0343	8x10	20,0	20,0	8,7	10,1	225,0	225
517.0355	12x14	22,0	22,0	15,0	16,0	270,0	282
517.0356	17x19	24,0	30,0	18,0	20,0	295,0	525

BOX SPANNERS

ULTIMATE*plus* double box spanner with go through centre

- 6 point
- Ring head 90° offset
- With go through function
- High quality finish
- Chrome vanadium



	mm	D mm	L mm	kg
517.0406	6	10,0	102,0	0,05
517.0407	7	11,0	106,0	0,06
517.0408	8	12,5	114,0	0,07
517.0409	9	13,5	122,0	0,09
517.0410	10	15,0	129,0	0,11
517.0411	11	16,5	136,0	0,13
517.0412	12	18,0	144,0	0,16
517.0413	13	19,5	152,0	0,18
517.0414	14	21,0	160,0	0,23
517.0415	15	22,5	169,0	0,26
517.0416	16	24,0	178,0	0,32
517.0417	17	25,5	187,0	0,35
517.0418	18	26,5	195,0	0,41
517.0419	19	28,0	204,0	0,45
517.0420	20	29,5	212,0	0,51
517.0421	21	30,5	221,0	0,56
517.0422	22	32,0	230,0	0,66
517.0423	23	33,5	240,0	0,76
517.0424	24	34,5	250,0	0,83
517.0427	27	38,0	296,0	1,24
517.0430	30	42,0	330,0	1,57
517.0432	32	44,5	350,0	1,84
517.0434	34	47,0	340,0	1,60
517.0436	36	49,5	380,0	2,40

ULTIMATE*plus* double box spanner set, offset

- 6 point
- Ring head 90° offset
- With go through function
- High quality finish
- Chrome vanadium

			kg
517.0450	9 pcs	8 - 9 - 10 - 11 - 12 - 13 - 14 - 17 - 19 mm	1,55
517.0451	11 pcs	6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 17 - 19 mm	1,60
517.0452	8 pcs	8 - 10 - 11 - 13 - 17 - 19 - 22 - 24 mm	2,60
517.0453	21 pcs	6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 24 - 27 - 30 - 32 mm	8,40
517.0454	26 pcs	6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 23 - 24 - 25 - 26 - 27 - 28 - 29 - 30 - 32 mm	15,90
517.0455	13 pcs	8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 24 mm	4,56

Pipe head spanner

- 6 point
- DIN 896 / ISO 2236 / ISO 1085
- With hollow shaft
- Matt finish
- Chrome vanadium

	mm	A1 mm	A2 mm	L mm		g
518.0870	6x7	10,0	11,0	100,0	1,2,3	27
518.0871	8x9	11,0	12,0	110,0	1,2,3	43
518.0872	10x11	12,5	13,0	120,0	1,2,3	63
518.0881	10x13	13,0	14,5	140,0	2,3	80
518.0873	12x13	14,0	14,5	130,0	2,3	96
518.0874	14x15	15,0	16,0	140,0	2,3	132
518.0875	16x17	16,0	17,0	150,0	2,3	155
518.0882	17x19	17,0	20,0	160,0	2,3	160
518.0876	18x19	18,0	20,0	160,0	2,3	187
518.0877	20x22	20,0	21,0	170,0	2,3	275
518.0878	21x23	20,0	20,0	180,0	2,3	310
518.0883	24x26	24,0	26,0	190,0	4	365
518.0879	24x27	24,0	26,0	190,0	4	365
518.0880	30x32	27,0	31,0	220,0	4	610
518.0884	36x41	32,0	35,0	220,0	5	650
518.0885	41x46	35,0	38,0	240,0	5	950
518.0886	46x50	38,0	40,0	240,0	5	1050

Tommy bar for box spanner

- Hardened
- Matt finish
- Chrome vanadium

	mm	A1 mm	A2 mm	A3 mm	L mm	#	g
518.0865	6x7-10x11	6,0	6,0	6,0	115,0	1	40
518.0866	6x7-21x23	5,8	8,0	9,5	160,0	2	80
518.0868	24x26-30x32	14,0	14,0	14,0	204,0	4	260
518.0869	36x41-46x50	15,6	15,6	15,6	253,0	5	370

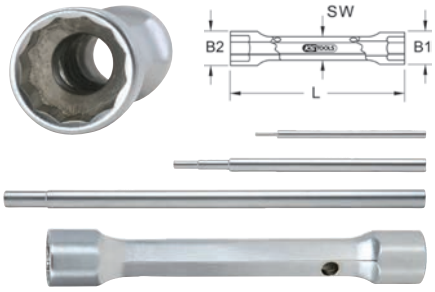
Box wrench sets

- 6 point
- DIN 896 / ISO 2236 / ISO 1085
- With hollow shaft
- Matt finish
- Chrome vanadium

			g
518.0900	10 pcs	Box wrench sets	920
8 x		6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17 - 18x19 - 20x22 mm	
2 x		6-11 + 10-22 mm	

ULTIMATE*plus* Double box spanner

- FlankTraction profile
- DIN 896 form A / ISO 2236
- Extremly versatile
- With centre hole
- Hexagonal shank
- Can use a ring spanner to drive
- High quality finish
- Chrome vanadium



	mm	B1 mm	B2 mm	mm	L mm		g
518.0406	6x7	9,0	10,0	8,0	100,0	1	27
518.0408	8x9	11,5	12,5	9,0	110,0	1	43
518.0410	10x11	14,0	15,0	11,0	120,0	1	63
518.0412	12x13	16,5	17,5	13,0	130,0	2	96
518.0414	14x15	19,5	20,0	14,0	140,0	2	132
518.0416	16x17	21,0	22,0	16,0	150,0	2	155
518.0418	18x19	23,0	24,0	18,0	160,0	2	187
518.0420	20x22	26,0	28,0	20,0	170,0	2	275
518.0421	21x23	27,0	29,0	21,0	180,0	2	310
518.0424	24x26	30,0	32,0	24,0	190,0	3	365
518.0425	25x28	31,0	34,0	25,0	200,0	3	410
518.0427	27x29	34,0	36,0	27,0	210,0	3	540
518.0430	30x32	37,0	39,0	30,0	220,0	3	610

Tommy bar for double box spanner

- Hardened
- High quality finish
- Chrome vanadium

	mm	A1 mm	A2 mm	A3 mm	L mm	#	g
518.0450	6x7-10x11	2,6	5,0	5,0	100,0	1	10
518.0455	12x13-21x23	5,9	7,0	9,3	170,0	2	80
518.0460	24x26-30x32	11,6	12,5	12,5	290,0	3	280

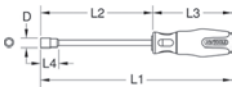
ULTIMATE*plus* Double box head spanner set

- FlankTraction profile
- DIN 896 form A / ISO 2236
- Extremly versatile
- With centre hole
- Can use a ring spanner to drive
- High quality finish
- Chrome vanadium

			kg
518.0405	10 pcs	ULTIMATE*plus* Double box head spanner set	1,16
8 x		6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17 - 18x19 - 20x22 mm	
2 x		#1 100 mm + #2 170 mm	

ERGOTORQUE*plus*® socket screwdriver

- Two component handle
- 6 point
- Matt finish
- Chrome vanadium



	mm	D mm	L1 mm	L2 mm	L3 mm	L4 mm	g
159.1265	3	6,6	150,0	150,0	105,0	4,3	60
159.1201	4	6,6	255,0	150,0	105,0	4,3	60
159.1266	4,5	7,6	150,0	150,0	105,0	4,4	70
159.1202	5	7,6	255,0	150,0	105,0	4,4	70
159.1203	5,5	8,2	255,0	150,0	105,0	4,8	80
159.1204	6	8,8	255,0	150,0	105,0	5,5	80
159.1205	7	10,0	255,0	150,0	105,0	6,8	110
159.1206	8	11,2	264,0	150,0	114,0	7,0	110
159.1207	9	13,9	264,0	150,0	114,0	9,3	110
159.1208	10	15,0	264,0	150,0	114,0	9,9	120
159.1209	11	16,5	264,0	150,0	114,0	10,3	130
159.1210	12	17,6	264,0	150,0	114,0	11,2	180
159.1212	14	18,9	264,0	150,0	114,0	13,0	180

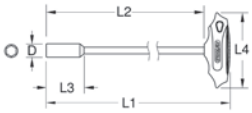
ERGOTORQUE*plus*® socket screwdriver set

- Two component handle
- 6 point
- Matt finish
- Chrome vanadium

			g
159.1200	8 pcs	5 - 6 - 7 - 8 - 10 - 11 - 12 - 13	800

T-handle socket screwdriver, long

- Long execution
- FlankTraction profile
- Two component handle
- Continuous hardened
- Matt chrome
- Special tool steel



	mm	D mm	L1 mm	L2 mm	L3 mm	L4 mm	g
158.50055	5,5	9,9	264,0	230,0	10,0	95,0	80
158.5006	6	9,9	264,0	230,0	10,0	95,0	100
158.5007	7	10,1	264,0	230,0	10,0	95,0	120
158.5008	8	12,5	270,0	230,0	14,0	115,0	140
158.5009	9	13,6	270,0	230,0	12,0	115,0	150
158.5010	10	14,5	270,0	230,0	14,0	115,0	160
158.5011	11	15,7	270,0	230,0	15,0	115,0	180
158.5012	12	16,7	270,0	230,0	15,0	115,0	180
158.5013	13	17,6	270,0	230,0	16,0	115,0	180
158.5014	14	19,2	270,0	230,0	15,0	115,0	190

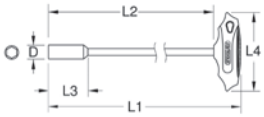
T-handle socket srewdriver set

- FlankTraction profile
- Two component handle
- Continuous hardened
- Matt chrome
- Special tool steel
- In sturdy wall bracket

			kg
158.5000	6 pcs	6 - 8 - 10 - 12 - 13 - 14 mm	1,40

T-handle socket screwdriver, extra long

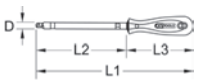
- Extra long execution
- FlankTraction profile
- Two component handle
- Continuous hardened
- Matt chrome
- Special tool steel



	mm	D mm	L1 mm	L2 mm	L3 mm	L4 mm	g
158.5408	8	12,6	390,0	350,0	13,0	115,0	180
158.5409	9	13,6	390,0	350,0	14,0	115,0	190
158.5410	10	14,7	390,0	350,0	15,0	115,0	220
158.5413	13	17,7	390,0	350,0	15,0	115,0	230
158.5414	14	19,1	390,0	350,0	16,0	115,0	250

ERGOTORQUE*plus*® socket screwdriver

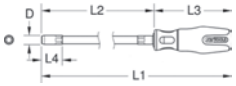
- Two component handle
- 6 point
- Flexible
- Limited torque
- Double spiral shaft
- Plastic protective coating
- Chrome vanadium



	mm	D mm	L1 mm	L2 mm	L3 mm	L4 mm	g
159.1126	6,0	10,8	259,0	150,0	109,0	9,3	155
159.1127	7,0	11,7	259,0	150,0	109,0	10,0	155
159.2128	8,0	11,9	259,0	150,0	109,0	10,0	155
159.1125	10,0	12,5	279,0	170,0	109,0	14,3	170

ERGOTORQUE*plus*® socket screwdriver, extra long

- Two component handle
- 6 point
- Flexible
- Ideal for deep seated screw-hose clamps
- Limited torque
- Double spiral shaft
- Plastic protective coating
- Chrome vanadium

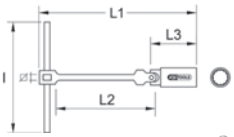


	mm	D mm	L1 mm	L2 mm	L3 mm	L4 mm	g
911.1175	5	11,9	614,0	500,0	114,0	8,9	270
911.1176	6	10,9	614,0	500,0	114,0	11,3	280
911.1177	7	11,7	614,0	500,0	114,0	11,3	280
911.1178	8	11,7	614,0	500,0	114,0	11,3	280

T-HANDLE FLEXIBLE WRENCH

T-handle spark plug spanner with joint, long

- 12 point
- Double hexagon profile allows the pickup of hexagon and 12-point spark plugs
- For difficult to access areas
- Universal usage
- With flexible head
- With rubber stop for holding the spark plugs
- Matt finish
- Chrome vanadium



	mm	I mm	L1 mm	L2 mm	L3 mm	g
517.1131	14,0	200,0	500,0	418,5	81,5	490
517.1132	16,0	200,0	500,0	418,5	81,5	500
517.1133	18,0	200,0	500,0	418,5	81,5	580
517.1134	21,0	200,0	500,0	418,5	81,5	590

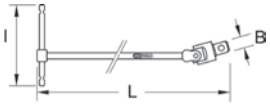
T-handle universal wrench, extra long

- 6 point
- With flexible head
- For difficult to access areas
- Matt finish
- Chrome vanadium

	mm	B mm	I mm	L mm	g
517.1108	8	12,0	200,0	394,0	400
517.1109	9	14,5	200,0	395,0	420
517.1110	10	15,3	200,0	490,0	460
517.1111	11	17,0	200,0	491,0	470
517.1112	12	18,0	200,0	493,0	485
517.1113	13	18,0	200,0	493,0	485
517.1114	14	20,0	200,0	495,0	480
517.1115	15	22,0	200,0	495,0	480
517.1116	16	22,0	200,0	496,0	490
517.1117	17	24,0	200,0	469,0	495
517.1118	18	26,0	200,0	500,0	500
517.1119	19	28,0	200,0	500,0	520

T-Handle universal wrench for sockets, extra long

- In accordance to DIN 3122 / ISO 3315
- Square drive adaptor compliant with DIN 3122 - ISO 1174 with a ball locking device
- With flexible head
- For difficult to access areas
- Matt finish
- Chrome vanadium

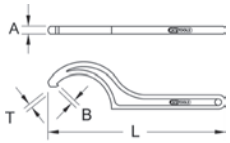


	■	B mm	I mm	L mm	g
517.1125	1/4"	6,3	200,0	490,0	420
517.1126	3/8"	9,5	200,0	495,0	540
517.1127	1/2"	12,6	200,0	500,0	760

HOOK WRENCH

Fixed hook wrench with nose

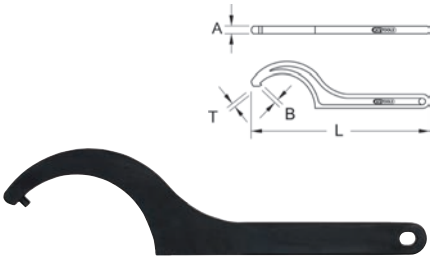
- In accordance to DIN 1810 Form A
- With hanging hole
- For slotted nuts
- Burnished
- Chrome vanadium



	mm	A mm	B mm	L mm	T mm	g
517.1370	12 - 14	2,5	2,0	109,5	1,5	22
517.1371	16 - 20	2,5	2,0	109,5	1,5	22
517.1372	25 - 28	4,0	2,5	135,9	2,0	36
517.1373	30 - 32	4,0	2,5	135,9	2,0	36
517.1374	34 - 36	5,0	3,0	170,2	2,0	82
517.1375	40 - 42	5,0	3,0	170,3	2,0	76
517.1376	45 - 50	6,0	3,5	195,0	2,0	132
517.1377	52 - 55	7,0	3,5	220,0	2,5	176
517.1378	58 - 62	7,0	4,0	240,0	2,5	224
517.1379	68 - 75	7,6	4,0	260,0	3,0	280
517.1380	80 - 90	8,0	5,0	280,0	3,5	368
517.1381	92 - 100	8,0	5,0	280,0	3,5	394
517.1382	110 - 115	9,5	5,0	334,9	4,0	590
517.1383	120 - 130	9,5	5,0	334,9	4,0	540
517.2371	135 - 145	12,3	6,0	385,0	5,0	841
517.2372	155 - 165	12,3	6,0	385,0	5,0	820
517.2373	180 - 195	14,3	6,0	465,0	5,0	1445
517.2374	205 - 220	14,3	6,0	465,0	5,0	1448

Fixed hook wrench with pin

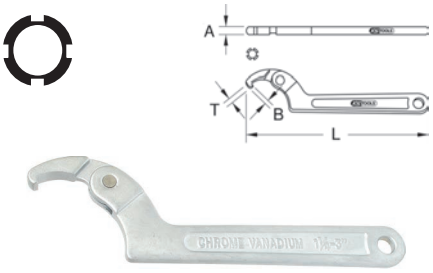
- In accordance to DIN 1810 Form B
- With hanging hole
- For pin type round nuts
- Burnished
- Chrome vanadium



	mm	A mm	B mm	L mm	T mm	g
517.1471	12 - 14	3,0	2,0	110,0	2,0	25
517.1472	16 - 18	3,0	2,5	110,0	2,5	25
517.1473	20 - 22	3,0	2,5	110,0	2,5	25
517.1474	25 - 28	4,0	3,0	136,0	3,0	55
517.1488	30 - 32	5,0	4,0	136,0	3,0	55
517.1476	34 - 36	5,0	4,0	170,0	3,5	100
517.1477	40 - 42	5,0	4,0	170,0	3,5	100
517.1478	45 - 50	6,0	5,0	206,0	4,0	165
517.1479	52 - 55	6,0	5,0	206,0	4,0	165
517.1480	58 - 62	7,0	5,0	240,0	5,0	270
517.1481	68 - 75	7,0	6,0	240,0	5,0	270
517.1482	80 - 90	8,0	6,0	280,0	6,0	410
517.1483	95 - 100	8,0	8,0	280,0	6,0	410
517.1484	110 - 115	8,0	8,0	335,0	8,0	610
517.1485	120 - 130	8,0	8,0	335,0	8,0	610
517.1486	135 - 145	8,0	8,0	380,0	8,0	790
517.1487	155 - 165	8,0	8,0	380,0	8,0	790
517.2312	205 - 220	10,0	10,0	470,0	10,0	1580
517.2314	180 - 195	10,0	10,0	465,0	10,0	1500

Hook wrench with nose

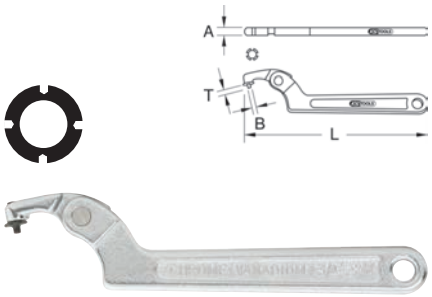
- In accordance to DIN 1810 Form A
- With flexible head
- With hanging hole
- For slotted nuts
- Matt finish
- Chrome vanadium



	mm		A mm	B mm	L mm	T mm	g
517.1302	19-50	3/4-2"	9,0	3,5	162,0	2,9	100
517.1303	32-76	1.1/4-3"	11,5	4,5	205,0	3,7	210
517.1304	50-120	2-4.3/4"	12,4	6,5	295,0	4,6	420
517.1305	114-158	4.1/2-6.1/4"	12,4	9,8	315,0	8,3	440
517.2379	155-230	5.5/8"-9.3/50"	8,0	11,0	420,0	18,0	1000

Flexible hook wrench with pin

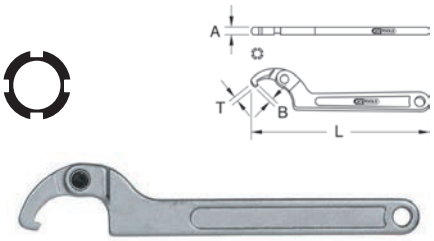
- In accordance to DIN 1810 Form B
- With flexible head
- With hanging hole
- For pin type round nuts
- Matt finish
- Chrome vanadium



	mm		A mm	B mm	L mm	T mm	g
517.1312	19-50	3/4-2"	9,2	4,0	165,0	4,0	110
517.1313	32-76	1.1/4-3"	11,3	5,0	210,0	4,7	220
517.1314	50-120	2-4.3/4"	12,5	6,0	295,0	5,5	420
517.1315	114-158	4.1/2-6.1/4"	12,6	8,0	320,0	7,6	440

Hook wrench with nose

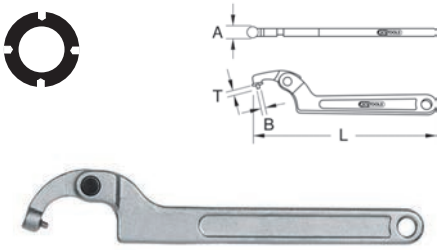
- In accordance to DIN 1810 Form A
- With flexible head
- With hanging hole
- For slotted nuts
- Matt finish
- Chrome vanadium



	mm	A mm	B mm	L mm	T mm	g
517.1316	13 - 35	5,2	3,2	175,0	3,2	96
517.1317	35 - 50	5,9	4,0	202,0	4,2	186
517.1318	50 - 80	7,5	4,9	280,0	5,2	392
517.1319	80 - 120	8,2	5,3	345,0	5,8	656
517.1320	120 - 180	10,8	8,9	465,0	7,8	1286

Flexible hook wrench with pin

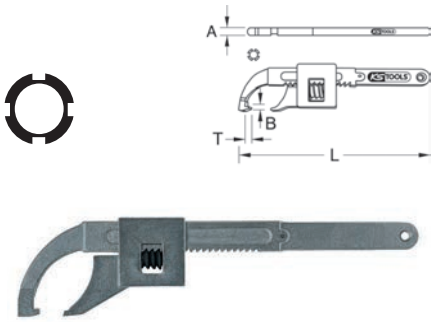
- In accordance to DIN 1810 Form B
- With flexible head
- With hanging hole
- For pin type round nuts
- Matt finish
- Chrome vanadium



	mm	A mm	B mm	L mm	T mm	g
517.1323	15 - 35	9,8	2,8	177,0	2,8	96
517.1324	35 - 50	10,7	3,8	202,0	3,6	186
517.1325	50 - 80	14,0	4,8	280,0	5,0	380
517.1326	80 - 120	17,2	5,8	345,0	7,0	652
517.1327	120 - 180	19,2	7,8	465,0	9,0	1318

Hook wrench with nose

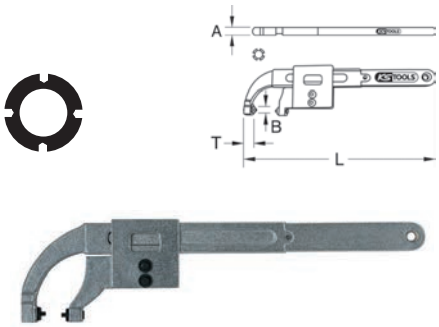
- In accordance to DIN 1810 Form A
- With flexible head
- With hanging hole
- For slotted nuts
- Infinitely variable
- Matt finish
- Chrome vanadium



	mm	A mm	B mm	L mm	T mm	g
517.1397	10 - 50	7,6	4,2	210,0	4,5	380
517.1398	20 - 100	8,2	6,8	360,0	5,5	840
517.1399	30 - 200	10,6	9,4	570,0	7,0	2250

Flexible hook wrench with pin

- In accordance to DIN 1810 Form B
- With flexible head
- With hanging hole
- For pin type round nuts
- Infinitely variable
- Matt finish
- Chrome vanadium



	mm	A mm	B mm	L mm	T mm	g
517.1328	10-50	8,3	2,6	210,0	2,5	380
517.1329	20-100	12,3	4,0	360,0	4,5	840
517.1330	30-200	17,3	5,8	570,0	4,8	2250

Adjustable hook wrench with nose

- With hanging hole
- For slotted nuts
- Burnished
- Chrome vanadium

	mm	Length mm	Thickness mm	g
517.2474	20-42	180,0	4	100
517.2475	45-90	250,0	6	25
517.2476	95-165	335,0	10	710

Articulated two-hole nut driver

- DIN 3,116 A
- Phosphate finish
- Special tool steel

	mm	A mm	B mm	L mm	T mm	kg
517.2375	18 - 40	5,0	3,0	150,0	4,0	0,09
517.2376	40 - 80	6,0	4,0	220,0	6,0	0,25
517.2377	80 - 125	8,0	6,0	320,0	7,0	0,67
517.2378	125 - 200	10,0	8,0	450,0	8,0	1,75

Pin-type face wrench

- DIN 3,116 A
- Phosphate finish
- Special tool steel

	mm	A mm	B mm	L mm	T mm	g
517.2013	13	3,0	2,5	90,0	3,0	27
517.2015	15	3,0	3,0	90,0	4,0	27
517.2020	20	4,0	3,0	122,0	5,0	50
517.2025	25	4,0	3,0	137,0	4,0	65
517.2030	30	4,0	4,0	164,0	5,0	85
517.2035	35	5,0	5,0	180,0	6,0	120
517.2040	40	5,0	4,0	167,0	5,0	120
517.2045	45	5,0	4,0	187,0	5,0	145
517.2050	50	5,0	5,0	198,0	6,0	175
517.2060	60	6,0	5,0	213,0	6,0	220
517.2075	75	6,0	6,0	243,0	7,0	330
517.2090	90	6,0	7,0	270,0	7,5	410

Pin-type face wrench set, seamlessly adjustable with interchangeable pins

- Universal application for common two-hole nuts
- With interchangeable pins
- Each double pin wrench is replacing 4 single key sizes
- Adjustable in diameter
- Phosphate finish
- Special tool steel
- In durable plastic storage case

			kg
150.3205	20 pcs	Pin-type face wrench set, seamlessly adjustable with interchangeable pins	1,56

consists of:

		g
150.3206	Pin-type face wrench, adjustable, 263 mm	485
150.3207	Pin-type face wrench, adjustable, 215 mm	293
150.3208	Pin-type face wrench, adjustable, 161 mm	155
150.3209	Pin-type face wrench, adjustable, 115 mm	57
150.3210	Pin pair, Ø 2.37 mm	2
150.3211	Pin pair, Ø 2.90 mm	2
150.3212	Pin pair, Ø 4.87 mm	5
150.3213	Pin pair, Ø 5.91 mm	7
150.3214	Pin pair, Ø 6.87 mm	13
150.3215	Pin pair, Ø 7.92 mm	15
150.3216	Pin pair, Ø 9.87 mm	28
150.3217	Pin pair, Ø 11.90 mm	37

SLOGGING SPANNER

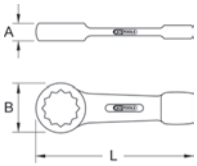
Slogging open end spanner

- DIN 133
- Jaw 15° offset
- With impact area
- For heavy duty applications
- Phosphate finish
- Chrome vanadium

	mm		A mm	B mm	L mm	kg
517.2122	22		16,0	55,0	180,0	0,30
517.0124	24		16,0	55,0	180,0	0,28
517.0127	27		16,3	56,0	181,0	0,39
517.0130	30		16,7	62,0	188,0	0,53
517.0132	32		17,2	66,0	196,0	0,53
517.0136	36		18,2	76,0	211,0	0,76
517.0141	41		19,2	88,0	227,0	0,92
517.0146	46		19,7	98,0	256,0	1,31
517.0150	50		21,2	106,5	281,0	1,57
517.0155	55		23,6	117,0	310,0	2,31
517.0160	60		24,1	128,0	321,0	2,31
517.0165	65		27,6	139,0	351,0	3,30
517.0170	70		29,6	150,0	370,0	4,56
517.0175	75		31,0	161,5	390,0	4,46
517.0180	80		34,0	172,5	406,0	6,12
517.0185	85		34,0	172,5	406,0	5,74
517.0190	90		38,4	194,0	456,0	8,04
517.0195	95		38,4	194,0	456,0	8,16
517.0196	100		46,0	225,0	500,0	11,80
517.2105	105		46,3	225,5	500,0	11,20
517.2110	110		46,3	225,5	500,0	14,00
517.2115	115		54,2	245,5	525,0	13,80
517.2120	120		54,2	254,5	525,0	18,00
517.2125	125		50,0	255,0	545,0	17,80
517.2130	130		55,0	275,0	575,0	21,00
517.2135	135		55,0	275,0	575,0	20,40
517.2140	140		55,0	275,0	575,0	20,00
517.2145	145		60,0	305,0	640,0	28,50
517.2150	150		60,0	305,0	640,0	28,30
517.2155	155		60,0	305,0	640,0	28,00
517.2160	160		60,0	305,0	640,0	28,40
517.2165	165		70,0	342,0	715,0	42,00
517.2170	170		70,0	342,0	715,0	39,00
517.2175	175		70,0	342,0	715,0	39,00
517.2180	180		70,0	392,0	715,0	40,00
517.2185	185		70,0	392,0	715,0	39,50
517.2190	190		78,0	392,0	800,0	53,00
517.2195	195		78,0	392,0	800,0	52,00
517.2200	200		78,0	392,0	800,0	51,00
517.2205	205		78,0	392,0	800,0	51,00
517.2210	210		78,0	392,0	800,0	50,50
517.2220	220		72,0	415,0	800,0	48,00
517.2251		1.1/16"	16,3	56,0	181,0	0,30
517.2254		1.1/8"	16,3	56,0	181,0	0,35
517.2255		1.3/16"	16,7	62,0	188,0	0,40
517.2253		1.1/4"	16,7	62,0	188,0	0,53
517.2258		1.5/16"	17,2	66,0	196,0	0,65
517.2257		1.3/8"	17,2	66,0	196,0	0,76
517.2260		1.7/16"	18,2	76,0	211,0	1,25
517.2252		1.1/2"	18,2	76,0	211,0	0,35
517.2262		1.9/16"	19,2	88,0	227,0	2,05
517.2259		1.5/8"	19,2	88,0	227,0	0,95
517.2263		1.11/16"	19,2	88,0	227,0	2,45
517.2256		1.3/4"	19,2	88,0	227,0	0,48
517.2264		1.13/16"	19,7	98,0	256,0	1,31
517.2261		1.7/8"	19,7	98,0	256,0	1,60
517.2265		1.15/16"	21,2	106,5	281,0	4,25
517.2266		2"	21,2	106,5	281,0	4,88
517.2267		2.1/16"	21,2	106,5	281,0	6,10
517.2270		2.1/8"	21,2	106,0	281,0	7,60
517.2271		2.3/16"	23,6	117,0	310,0	11,50
517.2269		2.1/4"	23,6	117,0	310,0	8,25
517.2274		2.5/16"	23,6	117,0	310,0	13,80
517.2273		2.3/8"	23,6	128,0	321,0	14,00
517.2276		2.7/16"	23,6	128,0	321,0	17,80
517.2268		2.1/2"	23,6	128,0	321,0	5,90
517.2278		2.9/16"	27,6	139,0	351,0	17,80
517.2275		2.5/8"	27,6	139,0	351,0	18,00
517.2272		2.3/4"	29,6	150,0	370,0	11,20
517.2279		2.13/16"	29,6	150,0	370,0	21,00
517.2277		2.7/8"	29,6	150,0	370,0	18,00
517.2280		2.15/16"	31,0	161,5	390,0	20,40
517.2281		3"	31,0	161,5	390,0	20,00
517.2284		3.1/8"	34,0	172,5	406,0	28,00
517.2283		3.1/4"	34,0	172,5	406,0	28,30
517.2286		3.3/8"	34,0	172,5	406,0	42,00
517.2282		3.1/2"	38,4	194,0	456,0	28,50
517.2287		3.5/8"	38,4	194,0	456,0	39,00
517.2285		3.3/4"	38,4	194,0	456,0	28,40
517.2288		3.7/8"	46,3	225,5	500,0	39,00
517.2289		4"	46,3	225,5	500,0	40,00
517.2292		4.1/8"	46,3	225,5	800,0	52,00
517.2291		4.1/4"	47,0	235,0	510,0	53,00
517.2290		4.1/2"	47,0	235,0	510,0	39,50
517.2293		4.3/4"	50,0	255,0	545,0	51,00
517.2294		5"	50,0	255,0	545,0	51,00
517.2296		5.3/8"	55,0	275,0	575,0	48,00
517.2295		5.3/4"	55,0	275,0	575,0	50,50
517.2297		6"	60,0	305,0	640,0	47,50

Slogging ring spanner

- FlankTraction profile
- DIN 7444
- With impact area
- For heavy duty applications
- Phosphate finish
- Chrome molybdenum



	mm		A mm	B mm	L mm	kg
517.0922	22		15,0	43,0	165,0	0,24
517.0924	24		15,0	42,5	160,0	0,24
517.0927	27		15,5	47,0	180,0	0,33
517.0930	30		16,5	51,5	190,0	0,44
517.0932	32		16,5	54,0	195,0	0,53
517.0936	36		19,5	60,0	205,0	0,55
517.0941	41		20,5	66,0	225,0	0,73
517.0946	46		22,5	75,0	240,0	0,97
517.0950	50		23,5	80,0	250,0	1,16
517.0955	55		25,0	87,5	270,0	1,52
517.0960	60		26,0	93,5	270,0	1,46
517.0965	65		29,0	101,0	290,0	2,18
517.0970	70		32,5	109,5	320,0	2,40
517.0975	75		34,0	114,5	325,0	2,76
517.0980	80		35,0	123,0	345,0	4,00
517.0985	85		37,0	129,0	360,0	4,86
517.0990	90		41,5	152,0	400,0	5,88
517.0995	95		41,5	152,0	400,0	5,88
517.0996	100		41,5	152,0	400,0	6,76
517.1905	105		47,5	172,0	435,0	6,53
517.1910	110		47,5	172,0	435,0	8,60
517.1915	115		47,5	172,0	435,0	8,60
517.1920	120		54,0	182,0	480,0	13,20
517.1925	125		54,0	182,0	480,0	13,20
517.1930	130		58,0	202,0	520,0	13,80
517.1935	135		58,0	202,0	520,0	13,80
517.1940	140		58,0	202,0	520,0	13,80
517.1945	145		64,0	228,0	580,0	19,20
517.1950	150		64,0	228,0	580,0	19,20
517.1955	155		64,0	228,0	580,0	19,20
517.1960	160		64,0	228,0	580,0	19,20
517.1965	165		70,0	265,0	650,0	28,60
517.1970	170		70,0	265,0	650,0	28,60
517.1975	175		70,0	265,0	650,0	28,60
517.1980	180		70,0	265,0	650,0	34,00
517.1985	185		75,0	290,0	700,0	33,50
517.1990	190		75,0	290,0	700,0	33,00
517.1995	195		75,0	290,0	700,0	32,50
517.2900	200		75,0	290,0	700,0	32,00
517.2905	205		80,0	320,0	750,0	38,50
517.2910	210		80,0	320,0	750,0	38,00
517.2915	215		80,0	320,0	750,0	38,70
517.2920	220		80,0	320,0	750,0	37,50
517.2930	230		80,0	320,0	750,0	36,00
517.2348		1"	15,0	43,0	165,0	0,23
517.2951		1.1/16"	15,5	47,0	180,0	0,35
517.2954		1.1/8"	15,5	47,0	180,0	0,35
517.2955		1.3/16"	16,5	51,5	190,0	0,47
517.2953		1.1/4"	16,5	51,5	190,0	0,53
517.2958		1.5/16"	16,5	53,0	195,0	0,47
517.2957		1.3/8"	16,5	53,0	195,0	0,57
517.2960		1.7/16"	19,5	60,0	205,0	0,57
517.2952		1.1/2"	19,5	60,0	205,0	0,57
517.2962		1.9/16"	20,5	66,0	225,0	0,76
517.2959		1.5/8"	20,5	66,0	225,0	0,76
517.2963		1.11/16"	20,5	66,0	225,0	0,76
517.2956		1.3/4"	20,5	66,0	225,0	0,95
517.2964		1.13/16"	22,5	75,0	240,0	0,95
517.2961		1.7/8"	22,5	75,0	240,0	0,95
517.2965		1.15/16"	23,5	80,0	250,0	1,12
517.2966		2"	23,5	80,0	250,0	1,12
517.2967		2.1/16"	23,5	80,0	250,0	1,12
517.2970		2.1/8"	23,5	80,0	250,0	1,56

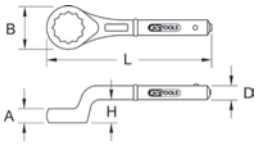
	mm		A mm	B mm	L mm	kg
517.2971		2.3/16"	25,0	87,5	270,0	1,56
517.2969		2.1/4"	25,0	87,5	270,0	1,56
517.2974		2.5/16"	26,0	93,5	270,0	1,63
517.2973		2.3/8"	26,0	93,5	270,0	1,63
517.2976		2.7/16"	26,0	93,5	270,0	1,63
517.2968		2.1/2"	29,0	101,0	290,0	2,06
517.2978		2.9/16"	29,0	101,0	290,0	2,06
517.2975		2.5/8"	29,0	101,0	290,0	2,06
517.2972		2.3/4"	32,5	109,5	320,0	3,00
517.2979		2.13/16"	32,5	109,5	320,0	3,00
517.2977		2.7/8"	32,5	109,5	320,0	3,00
517.2980		2.15/16"	34,0	114,5	325,0	3,00
517.2981		3"	34,0	114,5	325,0	3,00
517.2984		3.1/8"	35,0	123,0	345,0	4,00
517.2983		3.1/4"	36,0	126,0	360,0	4,00
517.2986		3.3/8"	36,0	126,0	360,0	4,00
517.2982		3.1/2"	40,0	142,0	390,0	4,00
517.2987		3.5/8"	40,0	142,0	390,0	5,40
517.2985		3.3/4"	41,5	152,0	400,0	5,74
517.2988		3.7/8"	45,0	155,0	420,0	5,40
517.2989		4"	45,0	155,0	420,0	6,53
517.2992		4.1/8"	45,0	155,0	420,0	6,53
517.2991		4.1/4"	48,0	170,0	450,0	8,60
517.2990		4.1/2"	48,0	170,0	450,0	8,60
517.2993		4.3/4"	54,0	182,0	480,0	13,20
517.2994		5"	54,0	182,0	480,0	13,20
517.2995		5.1/8"	58,0	202,0	520,0	13,30
517.2997		5.3/8"	58,0	202,0	520,0	13,80
517.2996		5.3/4"	64,0	228,0	580,0	19,20
517.2998		6"	64,0	228,0	580,0	19,20

Intermediate sizes are also available upon request.

SINGLE RING ENDED SPANNER

Offset single ring spanner

- FlankTraction profile
- Ring head 75° offset
- With shaft for snap-on handle
- With locking pin
- Heavy duty to deliver maximum torque
- Matt finish
- Chrome vanadium



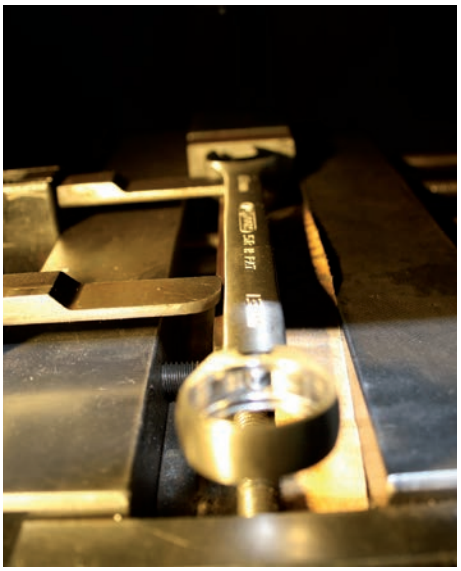
	mm		A mm	B mm	D mm	H mm	L mm	kg
517.9022	22		17,0	38,0	18,3	29,0	180,0	0,32
517.9024	24		17,0	38,0	19,0	29,5	180,0	0,35
517.9027	27		17,0	42,0	19,0	31,5	190,0	0,40
517.9030	30		18,0	48,0	19,0	33,5	195,0	0,45
517.9032	32		18,0	49,0	21,8	34,0	200,0	0,55
517.9036	36		18,0	49,0	21,8	34,0	200,0	0,65
517.9041	41		20,0	54,0	21,8	35,5	205,0	0,75
517.9046	46		22,0	62,0	25,0	39,5	265,0	1,05
517.9050	50		23,0	69,0	25,0	40,0	280,0	1,15
517.9055	55		25,5	76,0	25,0	42,5	290,0	1,40
517.9060	60		28,0	81,0	30,0	45,5	300,0	2,10
517.9065	65		30,5	90,0	30,0	49,0	345,0	2,30
517.9070	70		33,0	98,0	30,0	53,0	355,0	2,60
517.9075	75		35,5	105,0	30,0	55,0	365,0	3,00
517.9080	80		38,0	110,0	30,0	57,5	375,0	3,45
517.9085	85		40,5	125,0	30,0	59,0	385,0	3,80
517.9090	90		45,0	140,0	30,0	63,0	410,0	4,88
517.9095	95		45,0	140,0	30,0	63,0	410,0	5,67
517.9100	100		47,0	140,0	30,0	63,0	412,0	6,66

	mm		A mm	B mm	D mm	H mm	L mm	kg
517.9105	105		47,0	143,0	30,0	63,0	415,0	7,50
517.9110		7/8"	17,0	38,0	18,0	29,0	195,0	0,32
517.9111		1"	17,0	38,0	18,3	29,0	180,0	0,37
517.9112		1.1/16"	17,0	38,0	18,3	31,5	185,0	0,41
517.9115		1.1/8"	17,0	38,0	18,3	33,0	185,0	0,41
517.9116		1.3/16"	18,0	48,0	18,3	33,0	195,0	0,49
517.9114		1.1/4"	18,0	49,0	21,3	34,0	230,0	0,72
517.9119		1.5/16"	20,0	54,0	21,3	34,0	240,0	0,72
517.9118		1.3/8"	20,0	54,0	21,3	35,0	240,0	0,84
517.9121		1.7/16"	20,0	54,0	21,3	35,0	250,0	0,84
517.9113		1.1/2"	20,0	54,0	21,3	39,0	240,0	0,84
517.9123		1.9/16"	23,0	69,0	21,3	39,0	250,0	0,94
517.9120		1.5/8"	23,0	69,0	21,3	39,0	250,0	0,94
517.9124		1.11/16"	23,0	69,0	21,3	39,0	250,0	0,94
517.9117		1.3/4"	22,0	62,0	21,4	40,0	250,0	0,94
517.9125		1.13/16"	23,0	69,0	24,1	40,0	260,0	1,30
517.9122		1.7/8"	23,0	69,0	24,1	40,0	260,0	1,30
517.9126		2"	28,0	81,0	24,1	42,0	270,0	1,45
517.9127		2.1/16"	28,0	81,0	24,1	42,0	270,0	1,45
517.9130		2.1/8"	28,0	81,0	24,1	45,0	270,0	1,45
517.9131		2.3/16"	28,0	81,0	24,1	45,0	270,0	1,50
517.9129		2.1/4"	28,0	81,0	24,1	45,0	270,0	1,50
517.9134		2.5/16"	30,5	90,0	29,1	49,0	325,0	2,40
517.9133		2.3/8"	30,5	90,0	29,1	49,0	325,0	2,40
517.9135		2.7/16"	30,5	90,0	29,1	49,0	345,0	2,60
517.9128		2.1/2"	30,5	90,0	29,1	53,0	325,0	2,40
517.9136		2.9/16"	30,5	90,0	29,1	53,0	345,0	2,60
517.9132		2.3/4"	30,5	90,0	29,1	55,0	345,0	2,80
517.9137		2.13/16"	38,0	110,0	29,1	55,0	375,0	3,00
517.9138		2.15/16"	38,0	110,0	29,1	57,5	375,0	3,00
517.9139		3"	38,0	110,0	29,1	57,5	375,0	3,00
517.9142		3.1/8"	40,5	125,0	29,1	59,0	385,0	4,10
517.9141		3.1/4"	40,5	125,0	29,1	59,0	385,0	4,10
517.9144		3.3/8"	40,5	125,0	29,1	59,0	385,0	4,10
517.9140		3.1/2"	40,5	125,0	29,1	63,0	385,0	4,10
517.9145		3.5/8"	45,0	140,0	29,1	63,0	410,0	4,95
517.9143		3.3/4"	45,0	140,0	29,1	63,0	410,0	4,95
517.9146		3.7/8"	45,0	140,0	29,1	63,0	410,0	4,95
517.9147		4"	45,0	140,0	29,1	63,0	412,0	4,95

Snap-on handle for single ring spanner

- Four different sizes
- Matt finish
- Chrome vanadium

	mm	D mm	L mm	#	kg
517.9001	24 - 30	19,0	460,0	1	0,75
517.9002	32 - 41	22,0	610,0	2	1,25
517.9003	46 - 55	25,0	760,0	3	2,30
517.9004	60 - 105	30,0	860,0	4	2,80



SOCKETS AND OPERATING TOOLS

KS TOOLS

Innovation is our mission!

1/4" SOCKETS

Hexagonal socket

- 6 point
- FlankTraction profile
- According to DIN 3124 / ISO 2725
- Internal square to DIN 3120 / ISO 1174 with ball reception
- For manual operation
- Matt finish
- Chrome vanadium

1/4"

	mm		L mm	D1 mm	D2 mm	T mm	g
917.1445	3,0		25,0	6,2	11,0	7,0	8
917.1446	3,5		25,0	6,7	12,0	7,0	8
917.1404	4,0		25,0	7,0	12,0	7,0	9
917.14045	4,5		25,0	8,0	12,0	8,0	10
917.1405	5,0		25,0	8,0	12,0	8,0	10
917.14055	5,5		25,0	9,0	12,0	8,0	10
917.1406	6,0		25,0	9,0	12,0	8,0	10
917.1407	7,0		25,0	11,0	12,0	10,0	11
917.1408	8,0		25,0	12,0	11,0	10,0	11
917.1409	9,0		25,0	13,0	11,0	10,0	12
917.1410	10,0		25,0	14,0	12,0	12,0	13
917.1411	11,0		25,0	16,0	14,0	12,0	20
917.1412	12,0		25,0	17,0	15,0	13,0	21
917.1413	13,0		25,0	18,0	16,0	13,0	24
917.1414	14,0		25,0	20,0	17,0	14,0	28
917.1499		5/32"	25,0	7,0	12,0	8,0	9
917.1516		3/16"	25,0	7,0	12,0	10,0	10
917.1517		7/32"	25,0	8,0	12,0	10,0	10
917.1518		1/4"	25,0	9,0	12,0	10,0	10
917.1519		9/32"	25,0	11,0	12,0	10,0	12
917.1520		5/16"	25,0	12,0	11,0	10,0	12
917.1521		11/32"	25,0	13,0	11,0	13,0	13
917.1522		3/8"	25,0	14,0	12,0	13,0	14
917.1602		13/32"	25,0	16,0	14,0	12,0	20
917.1523		7/16"	25,0	16,0	14,0	13,0	19
917.1524		1/2"	25,0	18,0	16,0	13,0	24
917.1601		9/16"	25,0	20,0	17,0	13,0	29

Hexagonal socket set

- 6 point
- FlankTraction profile
- According to DIN 3124 / ISO 2725
- Internal square to DIN 3120 / ISO 1174 with ball reception
- For manual operation
- Matt finish
- Includes storage rail

1/4"

			kg
917.0620	10 pcs	4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm	0,35

Hexagonal socket, deep

- 6 point
- FlankTraction profile
- According to DIN 3124 / ISO 2725
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Long execution
- For manual operation
- Matt finish
- Chrome vanadium

1/4"

	mm		L mm	D1 mm	D2 mm	T mm	g
917.1525	4,0		50,0	7,0	11,0	10,0	19
917.1526	4,5		50,0	8,0	11,0	10,0	19
917.1527	5,0		50,0	8,0	11,0	10,0	15
917.1528	5,5		50,0	9,0	11,0	10,0	21
917.1426	6,0		50,0	9,0	11,0	17,0	23
917.1427	7,0		50,0	11,0	11,0	6,0	20
917.1428	8,0		50,0	10,0	11,0	21,0	24
917.1429	9,0		50,0	13,0	12,0	21,0	28
917.1430	10,0		50,0	14,0	12,0	21,0	35
917.1431	11,0		50,0	16,0	14,0	21,0	43
917.1432	12,0		50,0	17,0	15,0	21,0	46
917.1433	13,0		50,0	18,0	18,0	25,0	51
917.1448	14,0		50,0	20,0	17,0	21,0	60
917.1515		5/32"	50,0	7,0	11,0	10,0	19
917.1531		3/16"	50,0	8,0	11,0	10,0	20
917.1532		7/32"	50,0	9,0	11,0	11,5	21
917.1533		1/4"	50,0	10,0	11,0	17,0	23
917.1534		9/32"	50,0	10,0	11,0	21,0	24
917.1535		5/16"	50,0	12,0	11,0	21,0	24
917.1536		11/32"	50,0	13,0	11,0	21,0	29
917.1537		3/8"	50,0	14,0	12,0	21,0	37
917.1451		13/32"	50,0	14,0	17,0	21,0	35
917.1538		7/16"	50,0	16,0	14,0	21,0	42
917.1539		1/2"	50,0	18,0	16,0	21,0	42
917.1449		9/16"	50,0	20,0	17,0	21,0	60

Hexagonal socket set, deep

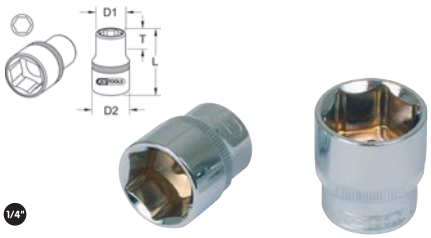
- 6 point
- FlankTraction profile
- According to DIN 3124 / ISO 2725
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Long execution
- For manual operation
- Matt finish
- Includes storage rail

1/4"

			kg
917.0610	10 pcs	4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm	0,36

CHROME*plus*® Hexagonal socket

- 6 point
- FlankTraction profile
- According to DIN 3124 / ISO 2725
- Internal square to DIN 3120 / ISO 1174 with ball reception
- For manual operation
- Mirror polished
- Chrome vanadium



1/4"

	mm		D1 mm	D2 mm	L mm	T mm	g
918.4445	3,0		6,2	11,0	25,0	7,0	8
918.4446	3,5		6,7	12,0	25,0	7,0	8
918.1404	4,0		7,0	12,0	25,0	2,0	10
918.14045	4,5		7,0	12,0	25,0	2,0	40
918.1405	5,0		8,0	12,0	25,0	3,0	40
918.14055	5,5		9,0	12,0	25,0	3,0	40
918.1406	6,0		9,0	12,0	25,0	4,0	40
918.1407	7,0		11,0	12,0	25,0	4,0	40
918.1408	8,0		12,0	12,0	25,0	5,0	40
918.1409	9,0		13,0	13,0	25,0	5,0	12
918.1410	10,0		14,0	14,0	25,0	6,0	40
918.1411	11,0		16,0	16,0	25,0	7,0	40
918.1412	12,0		17,0	17,0	25,0	8,0	40
918.1413	13,0		18,0	18,0	25,0	8,0	40
918.1414	14,0		20,0	20,0	25,0	10,0	40
918.1511		5/32"	5,6	10,7	25,0	2,0	10
918.1512		3/16"	8,0	12,0	25,0	3,0	10
918.1513		7/32"	9,0	12,0	25,0	3,0	10
918.1514		1/4"	10,0	12,0	25,0	4,0	10
918.1515		9/32"	11,0	12,0	25,0	4,0	12
918.1516		5/16"	12,0	12,0	25,0	5,0	14
918.1517		11/32"	13,0	13,0	25,0	5,0	16
918.1518		3/8"	14,0	14,0	25,0	6,0	20
918.2501		13/32"	16,0	16,0	25,0	7,0	40
918.1519		7/16"	16,0	16,0	25,0	7,0	25
918.1520		1/2"	18,0	18,0	25,0	8,0	35
918.15205		9/16"	20,0	20,0	25,0	10,0	40

CHROME*plus*® Hexagonal socket set

- 6 point
- FlankTraction profile
- According to DIN 3124 / ISO 2725
- Internal square to DIN 3120 / ISO 1174 with ball reception
- For manual operation
- Mirror polished
- Includes storage rail

1/4"

			kg
918.0620	10 pcs	4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm	0,35

CHROME*plus*® Hexagonal socket, deep

- 6 point
- FlankTraction profile
- According to DIN 3124 / ISO 2725
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Long execution
- For manual operation
- Mirror polished
- Chrome vanadium

1/4"

	mm		D1 mm	D2 mm	L mm	T mm	g
918.1424	4,0		7,0	11,0	50,0	3,0	15
918.14245	4,5		8,0	11,0	50,0	3,0	15
918.1425	5,0		8,0	11,0	50,0	4,0	15
918.14255	5,5		9,0	11,0	50,0	5,0	20
918.1426	6,0		9,0	11,0	50,0	5,0	20
918.1427	7,0		11,0	11,0	50,0	6,0	20
918.1428	8,0		12,0	12,0	50,0	8,0	25
918.1429	9,0		13,0	13,0	50,0	8,0	30
918.1430	10,0		14,0	14,0	50,0	9,0	35
918.1431	11,0		16,0	16,0	50,0	11,0	45
918.1432	12,0		17,0	17,0	50,0	12,0	50
918.1433	13,0		18,0	18,0	50,0	12,0	65
918.1435	14,0		20,0	17,0	50,0	16,0	70
918.1521		5/32"	6,7	10,7	50,0	3,0	20
918.1522		3/16"	8,0	11,0	50,0	4,0	15
918.1523		7/32"	9,0	11,0	50,0	5,0	20
918.1524		1/4"	10,0	11,0	50,0	5,0	20
918.1525		9/32"	11,0	11,0	50,0	6,0	20
918.1526		5/16"	12,0	12,0	50,0	8,0	25
918.1527		11/32"	13,0	13,0	50,0	8,0	30
918.1528		3/8"	14,0	14,0	50,0	9,0	35
918.4451		13/32"	14,0	16,0	50,0	21,0	35
918.1529		7/16"	16,0	16,0	50,0	11,0	50
918.1530		1/2"	18,0	18,0	50,0	12,0	65
918.4449		9/16"	20,0	17,0	50,0	21,0	60

CHROME*plus*® hexagonal socket set, deep

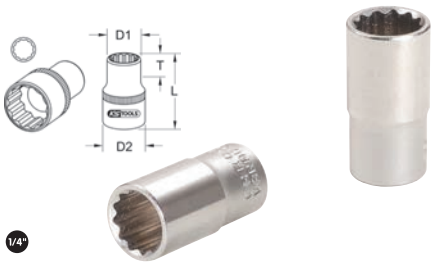
- 6 point
- FlankTraction profile
- According to DIN 3124 / ISO 2725
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Long execution
- For manual operation
- Mirror polished
- Chrome vanadium
- Includes storage rail

1/4"

			kg
918.0610	10 pcs	4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm	0,36

12 Point socket

- 12 point
- FlankTraction profile
- According to DIN 3124 / ISO 2725
- Internal square to DIN 3120 / ISO 1174 with ball reception
- For manual operation
- Matt finish
- Chrome vanadium



1/4"

	mm		D1 mm	D2 mm	L mm	g
917.1461	4,0		7,0	12,0	25,0	10
917.1462	4,5		8,0	12,0	25,0	10
917.1463	5,0		8,0	12,0	25,0	10
917.1464	5,5		9,0	12,0	25,0	12
917.1465	6,0		10,0	12,0	25,0	10
917.1466	7,0		11,0	12,0	25,0	10
917.1467	8,0		12,0	12,0	25,0	15
917.1468	9,0		13,0	13,0	25,0	15
917.1469	10,0		15,0	15,0	25,0	20
917.1470	11,0		16,0	16,0	25,0	25
917.1471	12,0		17,0	17,0	25,0	25
917.1472	13,0		18,0	18,0	25,0	30
917.1473	14,0		20,0	20,0	25,0	40
917.1474		3/16"	8,0	12,0	25,0	11
917.1475		7/32"	9,0	12,0	25,0	12
917.1476		1/4"	10,0	12,0	25,0	13
917.1477		9/32"	11,0	12,0	25,0	14
917.1478		5/16"	12,0	12,0	25,0	15
917.1479		11/32"	13,0	13,0	25,0	15
917.1480		3/8"	14,0	14,0	25,0	15
917.1484		13/32"	15,0	15,0	25,0	20
917.1481		7/16"	16,0	16,0	25,0	25
917.1482		1/2"	18,0	18,0	25,0	30
917.1483		9/16"	20,0	20,0	25,0	40

12 point socket set

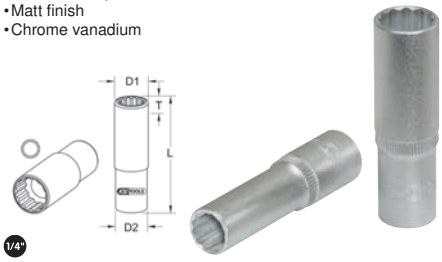
- 12 point
- FlankTraction profile
- According to DIN 3124 / ISO 2725
- Internal square to DIN 3120 / ISO 1174 with ball reception
- For manual operation
- Matt finish
- Includes storage rail

1/4"

			kg
917.0625	10 pcs	4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm	0,35

12 Point socket, deep

- 12 point
- FlankTraction profile
- According to DIN 3124 / ISO 2725
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Long execution
- For manual operation
- Matt finish
- Chrome vanadium



1/4"

	mm		D1 mm	D2 mm	L mm	g
917.1604	4,0		7,0	11,0	50,0	15
917.16045	4,5		8,0	11,0	50,0	15
917.1605	5,0		8,0	11,0	50,0	15
917.16055	5,5		9,0	11,0	50,0	20
917.1606	6,0		9,0	11,0	50,0	20
917.1607	7,0		11,0	11,0	50,0	20
917.1608	8,0		12,0	12,0	50,0	25
917.1609	9,0		13,0	13,0	50,0	30
917.1610	10,0		14,0	14,0	50,0	35
917.1611	11,0		16,0	16,0	50,0	45
917.1612	12,0		17,0	17,0	50,0	50
917.1613	13,0		18,0	18,0	50,0	65
917.4561	14,0		17,0	19,0	50,0	80
917.1565		3/16"	8,0	12,0	50,0	11
917.1566		7/32"	9,0	12,0	50,0	12
917.1567		1/4"	10,0	12,0	50,0	13
917.1568		9/32"	11,0	12,0	50,0	14
917.1569		5/16"	12,0	12,0	50,0	15
917.1570		11/32"	13,0	13,0	50,0	15
917.1571		3/8"	14,0	14,0	50,0	15
917.1572		7/16"	16,0	16,0	50,0	25
917.1573		1/2"	18,0	18,0	50,0	30
917.1574		9/16"	20,0	20,0	50,0	40

12 Point socket set, deep

- 12 point
- FlankTraction profile
- According to DIN 3124 / ISO 2725
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Long execution
- For manual operation
- Matt finish
- Includes storage rail

1/4"

			kg
917.0630	10 pcs	4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm	0,35

CHROME*plus*® 12 point socket

- 12 point
- FlankTraction profile
- According to DIN 3124 / ISO 2725
- Internal square to DIN 3120 / ISO 1174 with ball reception
- For manual operation
- Mirror polished
- Chrome vanadium

1/4"

	mm		D1 mm	D2 mm	L mm	g
918.1502	4,0		7,0	12,0	25,0	10
918.1503	4,5		7,0	12,0	25,0	10
918.1504	5,0		8,0	12,0	25,0	10
918.1506	5,5		9,0	12,0	25,0	10
918.1507	6,0		9,0	12,0	25,0	10
918.1508	7,0		11,0	12,0	25,0	10
918.1509	8,0		12,0	12,0	25,0	10
918.1541	9,0		13,0	13,0	25,0	11
918.1542	10,0		14,0	14,0	25,0	12
918.1543	11,0		16,0	16,0	25,0	17
918.1544	12,0		17,0	17,0	25,0	20
918.1546	13,0		18,0	18,0	25,0	23
918.1547	14,0		20,0	20,0	25,0	40
918.1548		3/16"	8,0	12,0	25,0	9
918.1549		7/32"	9,0	12,0	25,0	9
918.1551		1/4"	10,0	12,0	25,0	10
918.1552		9/32"	11,0	12,0	25,0	10
918.1553		5/16"	12,0	12,0	25,0	9
918.1554		11/32"	13,0	13,0	25,0	11
918.1555		3/8"	14,0	14,0	25,0	12
918.4163		13/32"	15,0	15,0	25,0	20
918.1556		7/16"	16,0	16,0	25,0	25
918.1557		1/2"	18,0	18,0	25,0	23
918.1559		9/16"	20,0	20,0	25,0	40

CHROME*plus*® 12 Point socket set

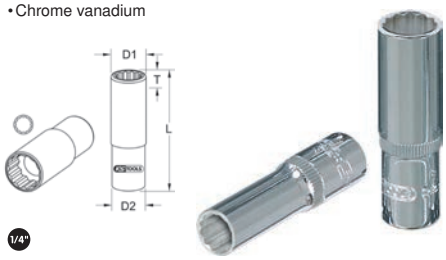
- 12 point
- FlankTraction profile
- According to DIN 3124 / ISO 2725
- Internal square to DIN 3120 / ISO 1174 with ball reception
- For manual operation
- Mirror polished
- Includes storage rail

1/4"

			kg
918.0615	10 pcs	4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm	0,35

CHROME*plus*® 12 Point socket, deep

- 12 point
- FlankTraction profile
- According to DIN 3124 / ISO 2725
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Long execution
- For manual operation
- Mirror polished
- Chrome vanadium



1/4"

	mm		D1 mm	D2 mm	L mm	g
918.1561	4,0		7,0	11,0	50,0	15
918.1562	4,5		8,0	11,0	50,0	15
918.1563	5,0		8,0	11,0	50,0	15
918.1589	5,5		9,0	11,0	50,0	20
918.1591	6,0		9,0	11,0	50,0	20
918.1592	7,0		11,0	11,0	50,0	20
918.1596	8,0		12,0	12,0	50,0	25
918.1597	9,0		13,0	13,0	50,0	30
918.1598	10,0		14,0	14,0	50,0	35
918.1599	11,0		16,0	16,0	50,0	45
918.1418	12,0		17,0	17,0	50,0	50
918.1419	13,0		18,0	18,0	50,0	65
918.2561	14,0		17,0	19,0	50,0	80
918.1423		3/16"	8,0	11,0	50,0	15
918.1601		7/32"	9,0	11,0	50,0	20
918.1602		1/4""	10,0	11,0	50,0	20
918.1603		9/32"	11,0	11,0	50,0	20
918.1611		5/16"	12,0	12,0	50,0	25
918.1613		11/32"	13,0	13,0	50,0	30
918.1615		3/8"	14,0	14,0	50,0	35
918.1616		7/16"	16,0	16,0	50,0	50
918.1618		1/2"	18,0	18,0	50,0	65

CHROME*plus*® 12-point socket-set, deep

- 12 point
- FlankTraction profile
- According to DIN 3124 / ISO 2725
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Long execution
- For manual operation
- Mirror polished
- Includes storage rail

1/4"

			kg
918.0630	10 pcs	4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm	0,35

Torx E Socket

- Torx E
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- For manual operation
- Matt finish
- Chrome vanadium

1/4"

		D1 mm	D2 mm	L mm	T mm	g
911.4313	E4	6,0	11,0	25,0	5,0	10
911.4314	E5	7,0	11,0	25,0	5,0	10
911.4315	E6	8,0	11,0	25,0	5,0	11
911.4316	E7	10,0	11,0	25,0	6,0	11,5
911.4317	E8	10,0	12,0	25,0	7,0	12,5
911.4332	E10	12,0	13,0	25,0	7,0	17
911.4350	E11	14,0	15,0	25,0	8,0	15
911.4352	E12	16,0	14,0	25,0	8,0	28

Torx E Socket set

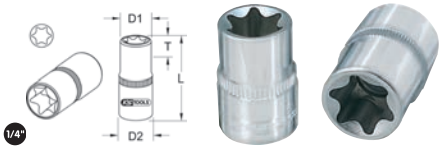
- Torx E
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- For manual operation
- Matt finish
- Chrome vanadium
- Includes storage rail

1/4"

			kg
911.4355	7 pcs	E4 - E5 - E6 - E7 - E8 - E10 - E11	0,10

CHROME*plus*® Torx E Socket

- Torx E
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- For manual operation
- Mirror polished
- Chrome vanadium



1/4"

		D1 mm	D2 mm	L mm	T mm	g
918.1582	E4	6,0	11,0	25,0	5,0	10
918.1583	E5	7,0	11,0	25,0	5,0	10
918.1584	E6	8,0	11,0	25,0	5,0	10
918.1585	E7	10,0	11,0	25,0	6,0	10
918.1586	E8	11,0	12,0	25,0	7,0	15
918.1587	E10	13,0	13,0	25,0	7,0	15
918.1588	E11	13,0	15,0	25,0	8,0	15
918.4352	E12	14,0	12,0	25,0	10,0	17

CHROME*plus*® Torx E Socket set

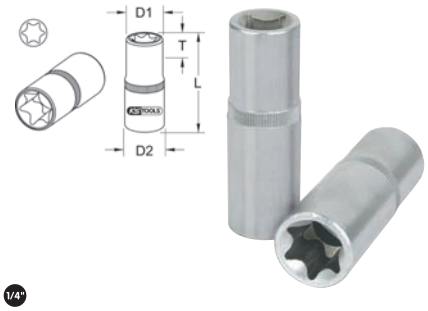
- Torx E
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- For manual operation
- Matt finish
- Chrome vanadium
- Includes storage rail

1/4"

			g
918.4355	7 pcs	E4 - E5 - E6 - E7 - E8 - E10 - E11	100

Torx E Socket, deep

- Torx E
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Long execution
- For manual operation
- Matt finish
- Chrome vanadium



1/4"

		D1 mm	D2 mm	L mm	T mm	g
917.2401	E4	6,0	11,0	50,0	10,0	14
917.2402	E5	7,0	11,0	50,0	10,0	16
917.2403	E6	8,0	11,0	50,0	10,0	18
917.2404	E7	9,0	11,0	50,0	10,0	18
917.2405	E8	11,0	12,0	50,0	10,0	20
917.2406	E10	13,0	13,0	50,0	10,0	26

CHROME*plus*® Torx E Socket, deep

- Torx E
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Long execution
- For manual operation
- Mirror polished
- Chrome vanadium

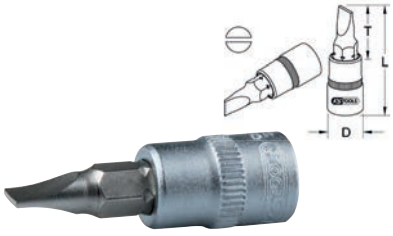
1/4"

		D1 mm	D2 mm	L mm	T mm	g
918.2401	E4	6,0	11,0	50,0	10,0	14
918.2402	E5	7,0	11,0	50,0	10,0	16
918.2403	E6	8,0	11,0	50,0	10,0	18
918.2404	E7	9,0	11,0	50,0	10,0	18
918.2405	E8	11,0	12,0	50,0	10,0	20
918.2406	E10	13,0	13,0	50,0	10,0	26

1/4" BIT SOCKETS

Bit socket for slotted screws

- Slotted
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- with press-fitted nickel-plated bit
- For manual operation
- Matt finish
- Chrome vanadium

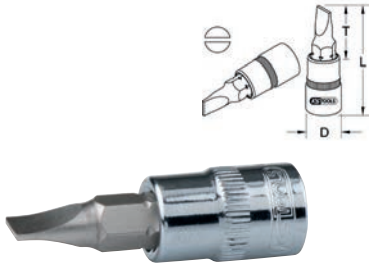


1/4"

	mm	D mm	L mm	T mm	g
911.1418	4,0	12,0	37,0	18,0	20
911.1419	5,5	12,0	37,0	18,0	20
917.1421	6,5	12,0	37,0	18,0	20
911.1420	7,0	12,0	37,0	18,0	20
917.1422	8,0	12,0	37,0	18,0	20

CHROME*plus*® Bit socket for slotted screws

- Slotted
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- with press-fitted nickel-plated bit
- For manual operation
- Mirror polished
- Chrome vanadium

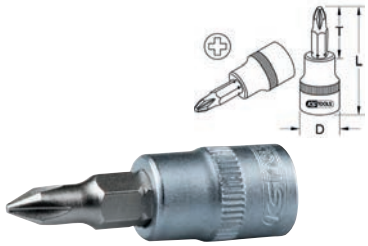


1/4"

	mm	D mm	L mm	T mm	g
918.1487	4,0	12,0	37,0	18,0	20
918.1488	5,5	12,0	37,0	18,0	20
918.1489	6,5	12,0	37,0	18,0	20
918.1491	7,0	12,0	37,0	18,0	20
918.1486	8,0	12,0	37,0	18,0	20

Bit socket for phillips head screws PH

- PH
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- with press-fitted nickel-plated bit
- For manual operation
- Matt finish
- Chrome vanadium

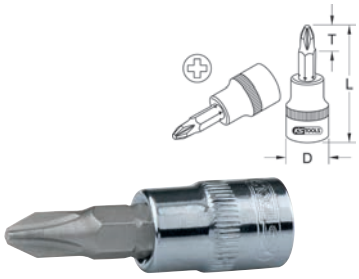


1/4"

		D mm	L mm	T mm	g
911.1482	PH0	12,0	37,0	18,0	15
911.1415	PH1	12,0	37,0	18,0	20
911.1416	PH2	12,0	37,0	18,0	20
911.1417	PH3	12,0	37,0	18,0	20
911.1421	PH4	12,0	37,0	18,0	20

CHROME*plus*® Bit socket for phillips screws PH

- PH
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- with press-fitted nickel-plated bit
- For manual operation
- Mirror polished
- Chrome vanadium

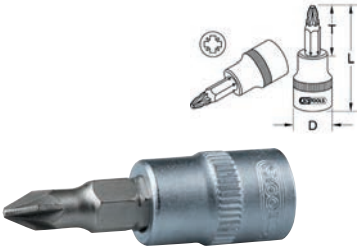


1/4"

		D mm	L mm	T mm	g
918.1416	PH0	12,0	37,0	18,0	20
918.1468	PH1	12,0	37,0	18,0	20
918.1469	PH2	12,0	37,0	18,0	20
918.1436	PH3	12,0	37,0	18,0	20
918.1440	PH4	12,0	37,0	18,0	20

Bit socket for pozidriv screws PZ

- PZ
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- with press-fitted nickel-plated bit
- For manual operation
- Matt finish
- Chrome vanadium

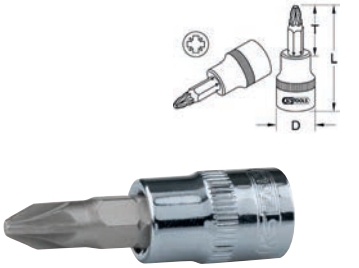


1/4"

		D mm	L mm	T mm	g
911.1483	PZ 0	12,0	37,0	18,0	15
911.1401	PZ 1	12,0	37,0	18,0	14
911.1402	PZ 2	12,0	37,0	18,0	15
911.1403	PZ 3	12,0	37,0	18,0	15
917.1415	PZ 4	12,0	37,0	18,0	20

CHROME*plus*® Bit socket for pozidriv screws PZ

- PZ
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- with press-fitted nickel-plated bit
- For manual operation
- Mirror polished
- Chrome vanadium

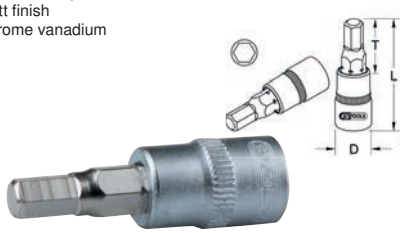


1/4"

		D mm	L mm	T mm	g
918.1417	PZ0	12,0	37,0	18,0	14
918.1477	PZ1	12,0	37,0	18,0	15
918.1478	PZ2	12,0	37,0	18,0	15
918.1437	PZ3	12,0	37,0	18,0	15
918.1448	PZ4	12,0	37,0	18,0	20

Bit socket for hexagon screws

- Hexagon socket
- In accordance with DIN 7422
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- with press-fitted nickel-plated bit
- For manual operation
- Matt finish
- Chrome vanadium



1/4"

	mm		D mm	L mm	T mm	g
917.1434	2,0		12,0	37,0	18,0	14
917.1435	2,5		12,0	37,0	18,0	14
911.1436	3,0		12,0	37,0	18,0	14
911.1437	4,0		12,0	37,0	18,0	14
911.1438	5,0		12,0	37,0	18,0	15
911.1439	6,0		12,0	37,0	18,0	16
911.1440	7,0		12,0	37,0	18,0	17
911.1441	8,0		12,0	37,0	18,0	18
917.1452	10,0		12,0	37,0	18,0	20
917.1440		1/8"	12,0	37,0	18,0	14
917.1441		5/32"	12,0	37,0	18,0	14
917.1442		3/16"	12,0	37,0	18,0	15
917.1443		7/32"	12,0	37,0	18,0	15
917.1444		1/4"	12,0	37,0	18,0	16

Bit socket set for hexagon screws

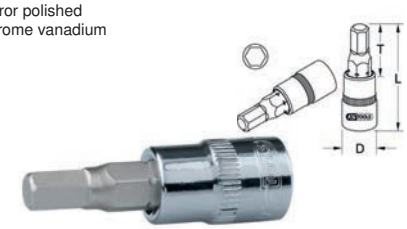
- Hexagon socket
- In accordance with DIN 7422
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- with press-fitted nickel-plated bit
- For manual operation
- Matt finish
- Chrome vanadium
- Includes storage rail

1/4"

			kg
911.1544	7 pcs	2,5 - 3 - 4 - 5 - 6 - 7 - 8 mm	0,17

CHROME*plus*® Bit socket for hexagon screws

- Hexagon socket
- In accordance with DIN 7422
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- with press-fitted nickel-plated bit
- For manual operation
- Mirror polished
- Chrome vanadium



1/4"

	mm		D mm	L mm	T mm	g
918.1438	2,0		12,0	37,0	18,0	12
918.1439	2,5		12,0	37,0	18,0	13
918.1461	3,0		12,0	37,0	18,0	20
918.1462	4,0		12,0	37,0	18,0	20
918.1463	5,0		12,0	37,0	18,0	15
918.1464	6,0		12,0	37,0	18,0	25
918.1465	7,0		12,0	37,0	18,0	25
918.1466	8,0		12,0	37,0	18,0	25
918.4361	10,0		12,0	37,0	18,0	20
918.1531		1/8"	12,0	37,0	18,0	25
918.1532		5/32"	12,0	37,0	18,0	25
918.1533		3/16"	12,0	37,0	18,0	25
918.1534		7/32"	12,0	37,0	18,0	25
918.1535		1/4"	12,0	37,0	18,0	25

CHROME*plus*® Bit socket set for hexagon screws

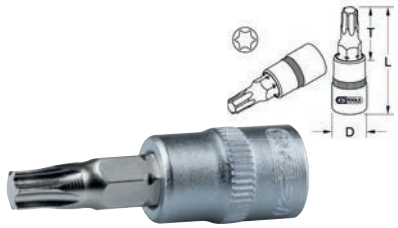
- Hexagon socket
- In accordance with DIN 7422
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- with press-fitted nickel-plated bit
- For manual operation
- Mirror polished
- Chrome vanadium
- Includes storage rail

1/4"

			kg
918.1670	7 pcs	2,5 - 3 - 4 - 5 - 6 - 7 - 8 mm	0,17

Bit socket for Torx screws

- Torx
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- with press-fitted nickel-plated bit
- For manual operation
- Matt finish
- Chrome vanadium



1/4"

		D mm	L mm	T mm	g
911.4407	T6	12,0	37,0	18,0	13
911.4362	T7	12,0	37,0	18,0	13
911.1448	T8	12,0	37,0	18,0	13
911.1478	T9	12,0	37,0	18,0	14
911.1442	T10	12,0	37,0	18,0	14
911.1443	T15	12,0	37,0	18,0	14
911.1444	T20	12,0	37,0	18,0	14
911.1445	T25	12,0	37,0	18,0	15
911.1449	T27	12,0	37,0	18,0	15
911.1446	T30	12,0	37,0	18,0	16
911.1447	T40	12,0	37,0	18,0	16

Bit socket set for Torx screws

- Torx
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- with press-fitted nickel-plated bit
- For manual operation
- Matt finish
- Chrome vanadium
- Includes storage rail

1/4"

			kg
911.1458	7 pcs	T10 - T15 - T20 - T25 - T27 - T30 -T40	0,16

CHROME*plus*® Bit socket for Torx screws

- Torx
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- with press-fitted nickel-plated bit
- For manual operation
- Mirror polished
- Chrome vanadium

1/4"

		D mm	L mm	T mm	g	
918.2407	T6	12,0	37,0	18,0	13	
918.1496	T7	12,0	37,0	18,0	20	
918.1492	T8	12,0	37,0	18,0	13	
918.1494	T9	12,0	37,0	18,0	14	
918.1479	T10	12,0	37,0	18,0	14	
918.1480	T15	12,0	37,0	18,0	14	
918.1481	T20	12,0	37,0	18,0	14	
918.1482	T25	12,0	37,0	18,0	15	
918.1483	T27	12,0	37,0	18,0	15	
918.1484	T30	12,0	37,0	18,0	16	
918.1485	T40	12,0	37,0	18,0	16	

CHROME*plus*® Bit socket set for Torx screws

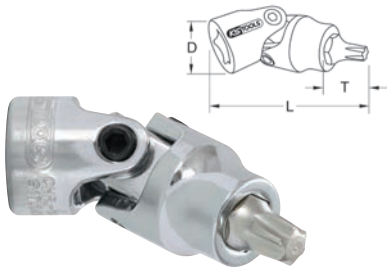
- Torx
- Internal square drive adaptor to DIN 3120 / ISO 1174
- with press-fitted nickel-plated bit
- For manual operation
- Matt finish
- Chrome vanadium
- Includes storage rail

1/4"

			kg	
918.1558	7 pcs	T10 - T15 - T20 - T25 - T27 - T30 -T40	0,16	

CHROME*plus*® bit socket with joint for Torx screws

- Torx
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- with press-fitted nickel-plated bit
- For manual operation
- Ideal for difficult to access areas
- Screwed joints
- Especially short execution
- Mirror polished
- Chrome vanadium



1/4"

		D mm	L mm	T mm	g	
917.1491	T8	15,0	40,0	10,0	22	
917.1492	T10	15,0	40,0	10,0	22	
917.1493	T15	15,0	40,0	10,0	22	
917.1494	T20	15,0	40,0	10,0	22	
917.1495	T25	15,0	40,0	10,0	23	
917.1496	T27	15,0	40,0	10,0	23	
917.1497	T30	15,0	40,0	10,0	23	
917.1498	T40	15,0	40,0	10,0	25	

CHROME*plus*® bit socket set with joint for Torx screws

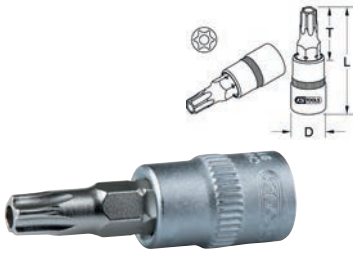
- Torx
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- with press-fitted nickel-plated bit
- For manual operation
- Ideal for difficult to access areas
- Screwed joints
- Especially short execution
- Mirror polished
- Chrome vanadium
- In durable plastic storage case

1/4"

			g	
917.1490	8 pcs	T8 - T10 - T15 - T20 - T25 - T27 - T30 - T40	350	

Bit socket for Torx tamperproof screws

- For tamperproof Torx
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- with press-fitted nickel-plated bit
- For manual operation
- Matt finish
- Chrome vanadium



1/4"

		D mm	L mm	T mm	g	
911.1461	TB8	12,0	37,0	20,0	14	
911.1485	TB9	12,0	37,0	18,0	14	
911.1462	TB10	12,0	37,0	20,0	14	
911.1463	TB15	12,0	37,0	20,0	14	
911.1464	TB20	12,0	37,0	20,0	14	
911.1465	TB25	12,0	37,0	20,0	15	
911.1466	TB27	12,0	37,0	20,0	15	
911.1467	TB30	12,0	37,0	20,0	15	
911.1468	TB40	12,0	37,0	20,0	20	

Bit socket set for Torx tamperproof screws

- For tamperproof Torx
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Press fitted nickel plated stud
- For manual operation
- Matt finish
- Chrome vanadium
- Includes storage rail

1/4"

			kg	
911.1460	7 pcs	TB10 - TB15 - TB20 - TB25 - TB27 - TB30 - TB40	0,16	

CHROME*plus*® Bit socket for Torx tamperproof screws

- For tamperproof Torx
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- with press-fitted nickel-plated bit
- For manual operation
- Mirror polished
- Chrome vanadium

1/4"

		D mm	L mm	T mm	g	
918.1467	TB8	12,0	37,0	18,0	20	
918.1415	TB9	12,0	37,0	18,0	20	
918.1470	TB10	12,0	37,0	18,0	20	
918.1471	TB15	12,0	37,0	18,0	20	
918.1472	TB20	12,0	37,0	18,0	20	
918.1473	TB25	12,0	37,0	18,0	20	
918.1474	TB27	12,0	37,0	18,0	20	
918.1475	TB30	12,0	37,0	18,0	20	
918.1476	TB40	12,0	37,0	18,0	20	

CHROME*plus*® Bit socket set for Torx tamperproof screws

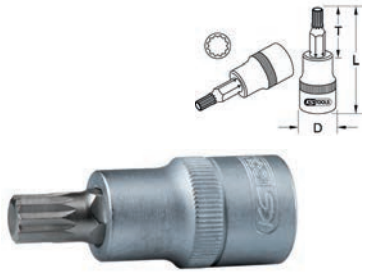
- For tamperproof Torx
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Press fitted nickel plated stud
- For manual operation
- Matt finish
- Chrome vanadium
- Includes storage rail

1/4"

			kg	
918.1460	7 pcs	TB10 - TB15 - TB20 - TB25 - TB27 - TB30 - TB40	0,16	

Bit socket for spline (XZN®) screws

- Spline (XZN®)
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- with press-fitted nickel-plated bit
- For manual operation
- Matt finish
- Chrome vanadium



1/4"

		D mm	L mm	T mm	g	
917.1541	M4	12,0	37,0	18,0	20	
917.1542	M5	12,0	37,0	18,0	20	
917.1543	M6	12,0	37,0	18,0	20	
917.1544	M7	12,0	37,0	18,0	16	
917.1545	M8	12,0	37,0	18,0	20	
917.1546	M10	12,0	37,0	18,0	20	

Bit socket set for spline (XZN®) screws

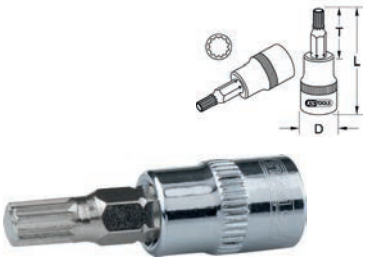
- Spline (XZN®)
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- with press-fitted nickel-plated bit
- For manual operation
- Matt finish
- Chrome vanadium
- Includes storage rail

1/4"

			kg
911.1547	6 pcs	M4 - M5 - M6 - M7 - M8 - M10	0,16

CHROME*plus*® Bit socket for spline (XZN®) screws

- Spline (XZN®)
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- with press-fitted nickel-plated bit
- For manual operation
- Mirror polished
- Chrome vanadium



1/4"

		D mm	L mm	T mm	g
918.1441	M4	12,0	37,0	18,0	20
918.1442	M5	12,0	37,0	18,0	20
918.1443	M6	12,0	37,0	18,0	20
918.1444	M7	12,0	37,0	18,0	20
918.1445	M8	12,0	37,0	18,0	20
918.1446	M10	12,0	37,0	18,0	20

CHROME*plus* bit socket set for spline (XZN®) screws

- Spline (XZN®)
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- with press-fitted nickel-plated bit
- For manual operation
- Mirror polished
- Chrome vanadium
- Includes storage rail

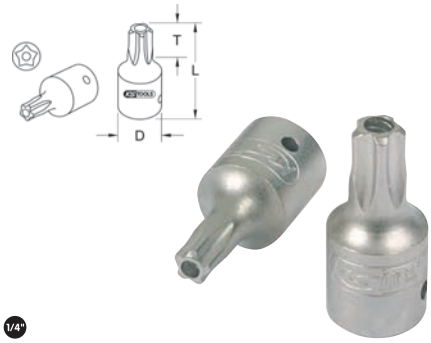
1/4"

			kg
918.0645	6 pcs	M4 - M5 - M6 - M7 - M8 - M10	0,16

Bit socket for five star tamperproof screws

- Five star, tamperproof
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- For manual operation
- Matt finish
- Chrome vanadium

Application range: Control devices, alternator, air quantity meter, exterior mirror, insertion pumps for pump-line-nozzle system, door lock fastening screw for **Volkswagen**, **Audi**, **Ford**, **Mercedes**, Rover, **Seat**, **Škoda**, **Volvo** etc.



1/4"

	D	D mm	L mm	T mm	g
911.2471	TS8	12,0	25,0	5,0	10
911.1471	TS10	12,0	25,0	6,0	10
911.1472	TS15	12,0	25,0	6,0	10
911.1473	TS20	12,0	25,0	7,0	10
911.1474	TS25	12,0	25,0	7,0	10
911.1475	TS27	12,0	25,0	8,0	10
911.1476	TS30	12,0	25,0	8,0	10
911.1477	TS40	12,0	25,0	9,0	10

Bit socket set for tamperproof five star screws

- Five star, tamperproof
- For the assembly and disassembly of safety bolts on temperature sensors and air volume measuring instruments
- For modern diesel injection systems (pump-nozzle device, pump and electricity nozzle, common rail), e.g. Bosch injection systems
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- For manual operation
- Matt finish
- Chrome vanadium
- Includes storage rail

Application range: Control units, alternator, air flow meter, exterior mirrors, plug-in pumps for pump line nozzle system (also for **Mercedes** Atego and Actros), door lock fastening screws for **Volkswagen**, **Audi**, **Ford**, **Mercedes**, **Rover**, **Seat**, **Škoda**, **Volvo** etc.

1/4"

			kg
911.1470	7 pcs	TS10 - TS15 - TS20 - TS25 - TS27 - TS30 - TS40	0,16

Bit set for tamperproof five star screws

- Five star, tamperproof
- For the assembly and disassembly of safety bolts on temperature sensors and air volume measuring instruments
- For modern diesel injection systems (pump-nozzle device, pump and electricity nozzle, common rail), e.g. Bosch injection systems
- External hexagon drive to DIN 3126 / ISO 1173 - E 6,3
- Can be used by hand or with an electric screwdriver
- 1/4" Bit adaptor socket
- Ideally suited for fittings in trade and industry
- Nickel plated
- Special tool steel

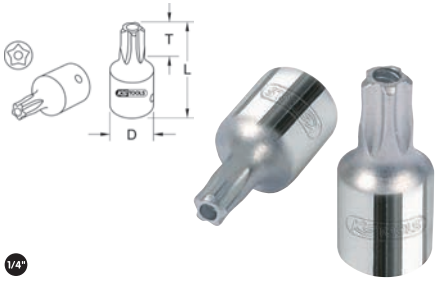
Application range: Control devices, alternator, air quantity meter, exterior mirror, insertion pumps for pump-line-nozzle system, door lock fastening screw for **Volkswagen**, **Audi**, **Ford**, **Mercedes**, **Rover**, **Seat**, **Škoda**, **Volvo** etc.

1/4"

			g
911.1480	8 pcs	TS10 - TS15 - TS20 - TS25 - TS27 - TS30 - TS40	50

CHROME*plus*® Bit socket for five star tamperproof screws

- Five star, tamperproof
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- For manual operation
- Mirror polished
- Chrome vanadium



1/4"

		D mm	L mm	T mm	g
918.1575	TS10	12,0	25,0	6,0	10
918.1576	TS15	12,0	25,0	6,0	10
918.1577	TS20	12,0	25,0	7,0	10
918.1578	TS25	12,0	25,0	7,0	10
918.1579	TS27	12,0	25,0	8,0	10
918.1580	TS30	12,0	25,0	8,0	10
918.1581	TS40	12,0	25,0	9,0	10
918.2411	TS45	12,0	25,0	9,0	10
918.2412	TS50	12,0	25,0	9,0	10

CHROME*plus*® Bit socket set for five star tamperproof screws

- Five star, tamperproof
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- For manual operation
- Mirror polished
- Chrome vanadium
- Includes storage rail

1/4"

			kg
918.1545	7 pcs	TS10 - TS15 - TS20 - TS25 - TS27 - TS30 -TS40	0,16

Cylinder head bolt socket set

- Range of all current inserts for cylinder head screws
- Correct and quick engine repair
- Matt finish
- Chrome vanadium
- In durable plastic storage case

Application range: Cylinder head screws, air quantity meter, oil sump drain plugs, gearbox oil, airbag, brake saddle etc.

1/4" 1/2"

			kg
911.4500	38 pcs	Cylinder head bolt socket set	6,50

9 x	1/4": 37 mm, TS10 - TS15 - TS20 - TS25 - TS27 - TS30 - TS40 - TS45 - TS50
5 x	1/2": 55 mm, 14 - 17 - 19 - 22 - 24 mm
1 x	1/2": 55 mm, M16
1 x	1/2": 75 mm, M18
1 x	1/2": 100 mm, M9
2 x	1/2": 110 mm, M9 - M16
1 x	1/2": 110 mm, TB80
3 x	1/2": 140 mm, 10 - 11 - 13 mm
6 x	1/2": 140 mm, T40 - T45 - T50 - T55 - T60 - T70
3 x	1/2": 140 mm, M10 - M12 - M14
1 x	1/2": 140 mm, M10
1 x	1/2": 160 mm, 5 mm
1 x	1/2": 240 mm, 7 mm
2 x	1/2": 240 mm, M7 - M8
1 x	1/2": 300 mm, TB30

GO THROUGH SOCKETS

11 mm + 1/4" Go through reversing ratchet

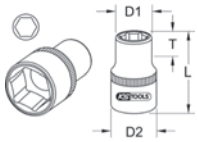
- Especially handy and compact
- Rotating assembly
- Very flat design for hard to access places
- Ratchet head offset at 15°
- Exact gearing with 72 teeth
- With reversing lever
- Matt finish
- Chrome vanadium

1/4" 11 mm

		A1 mm	A2 mm	B1 mm	B2 mm	L mm	g
918.3072	1/4" x 11 mm	10,2	9,7	17,2	14,2	115,0	45

11 mm Go through socket

- With 11 mm hexagon drive
- 6 point
- FlankTraction profile
- Very short design for hard to access places
- For manual operation with go-through-reversing ratchet 918.3072
- Matt finish
- Chrome vanadium



	mm	L mm	D1 mm	D2 mm	T mm	g
918.3061	5,0	18,0	11,0	8,0	9,0	20
918.3062	6,0	18,0	11,0	10,0	9,0	20
918.3063	7,0	18,0	11,0	11,0	9,0	20
918.3064	8,0	18,0	11,0	12,0	9,0	20
918.3065	9,0	18,0	11,0	13,0	9,0	20
918.3066	10,0	18,0	11,0	14,0	9,0	20
918.3067	11,0	18,0	11,0	16,0	9,0	20
918.3068	12,0	18,0	11,0	17,0	9,0	20
918.3069	13,0	18,0	11,0	18,0	9,0	20
918.3071	14,0	18,0	11,0	20,0	9,0	20

Go through socket and bit set

- Especially handy and compact
- Rotating assembly
- Very flat design for hard to access places
- Ratchet head offset at 15°
- Exact gearing with 72 teeth
- With reversing lever
- Matt finish
- Chrome vanadium
- In durable plastic case

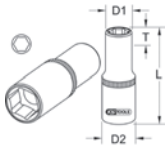
			g
918.3050	31 pcs	Go through socket and bit set	420

10 x	5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 mm
1 x	1/4" x 11 mm
4 x	PH0 - PH1 - 2 x PH2
3 x	PZ0 - PZ1 - PZ2
2 x	4 - 6 mm
4 x	3 - 4 - 5 - 6 mm
7 x	T10 - T15 - T20 - T25 - T27 - T30 - T40

1/4" ADAPTERS

Bit adaptor socket

- Internal square to DIN 3120 / ISO 1174 with ball reception
- For 1/4" bits with external hexagon drive to DIN 3126 / ISO 1173
- For manual operation
- Matt finish
- Chrome vanadium



1/4"

	D1 mm	D2 mm	L mm	T mm	g
911.4337	10,0	12,0	25,0	8,0	10

CHROME*plus*® Bit adaptor socket

- Internal square to DIN 3120 / ISO 1174 with ball reception
- For 1/4" bits with external hexagon drive to DIN 3126 / ISO 1173
- For manual operation
- Mirror polished
- Chrome vanadium

1/4"

	D1 mm	D2 mm	L mm	T mm	g
918.1421	10,0	12,0	25,0	8,0	10

Bit adaptor socket

- Clamping ring
- Internal square to DIN 3120 / ISO 1174 with ball reception
- For 1/4" bits with external hexagon drive to DIN 3126 / ISO 1173
- For manual operation
- Matt finish
- Chrome vanadium

1/4"

	D1 mm	D2 mm	L mm	T mm	g
911.4327	10,0	12,0	25,0	8,0	10

CHROME*plus*® Bit adaptor socket

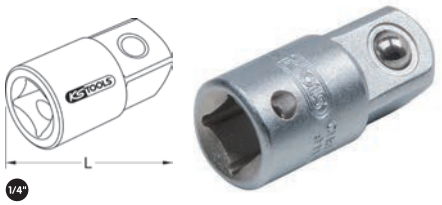
- Clamping ring
- Internal square to DIN 3120 / ISO 1174 with ball reception
- For 1/4" bits with external hexagon drive to DIN 3126 / ISO 1173
- For manual operation
- Mirror polished
- Chrome vanadium

1/4"

	D1 mm	D2 mm	L mm	T mm	g
918.1422	10,0	12,0	25,0	8,0	10

Adaptor

- DIN 3123 / ISO 3316
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Internal square to DIN 3120 / ISO 1174 with ball reception
- For manual operation
- Matt finish
- Chrome vanadium



1/4"

	□	■	L mm	g
911.1494	1/4"	3/8"	25,0	30

Adaptor and reducing adaptor set

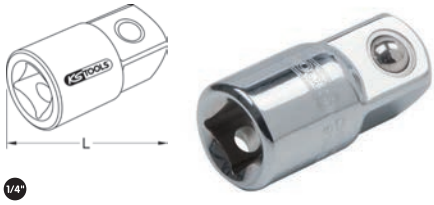
- DIN 3123 / ISO 3316
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Internal square to DIN 3120 / ISO 1174 with ball reception
- For manual operation
- Matt finish
- Chrome vanadium
- In durable plastic storage case

1/4" 3/8" 1/2"

			kg
911.0106	6 pcs	1/4" x 3/8" - 3/8" x 1/4" - 3/8" x 1/2" - 1/2" x 3/8" - 1/2" x 3/4" - 3/4" x 1/2"	0,66

CHROME*plus*® Adaptor

- DIN 3123 / ISO 3316
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Internal square to DIN 3120 / ISO 1174 with ball reception
- For manual operation
- Mirror polished
- Chrome vanadium



1/4"

	□	■	L mm	g
918.1501	1/4"	3/8"	25,0	30

CHROME*plus*® adaptor and reducing adaptor set

- DIN 3123 / ISO 3316
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Internal square to DIN 3120 / ISO 1174 with ball reception
- For manual operation
- Mirror polished
- Chrome vanadium
- In durable plastic storage case

1/4" 3/8" 1/2"

			kg
918.0106	6 pcs	1/4" x 3/8" - 3/8" x 1/4" - 3/8" x 1/2" - 1/2" x 3/8" - 1/2" x 3/4" - 3/4" x 1/2"	0,66

Adaptor and reducing adaptor set

- DIN 3123 / ISO 3316
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Internal square to DIN 3120 / ISO 1174 with ball reception
- For manual operation
- Matt finish
- Chrome vanadium
- In durable plastic storage case

1/4" 3/8" 1/2" 3/4"

			g
917.0707	7 pcs	Adaptor and reducing adaptor set	660

consists of:

		g
514.1113	1/4" Auto slimlock magnetic quick release bit holder, 65mm	30
911.1494	Adaptor, 1/4"Mx3/8"F	30
911.3892	Adaptor,3/8" Fx1/2" M	60
911.1234	Adaptor, 1/2"F x 3/4"M	140
911.3897	Reducing adaptor, 3/8"Fx1/4"M	60
911.1233	Reducing adaptor, 1/2"F x 3/8"M	50
911.3412	Reducing adaptor 3/4"F x 1/2"M	195

CHROME*plus*® adaptor and reducing adaptor set

- DIN 3123 / ISO 3316
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Internal square to DIN 3120 / ISO 1174 with ball reception
- For manual operation
- Mirror polished
- Chrome vanadium
- In durable plastic storage case

1/4" 3/8" 1/2" 3/4"

			kg
918.0707	7 pcs	CHROME*plus*® adaptor and reducing adaptor set	0,66

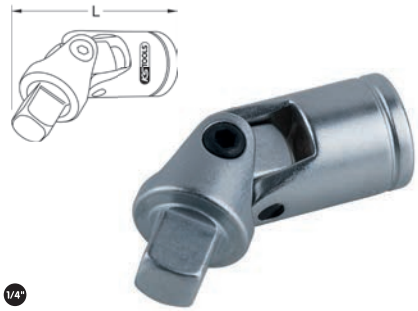
consists of:

		g
514.1113	1/4" Auto slimlock magnetic quick release bit holder, 65mm	30
918.1753	1/2" CHROMEplus Reducing adaptor, 1/2"F x 3/8"M	50
918.1501	1/4" CHROMEplus Adaptor, 1/4"Fx3/8"M	30
918.1754	1/2" CHROMEplus Adaptor, 1/2"Fx3/4"M	140
918.3930	3/8" CHROMEplus Reducing adaptor, 3/8"F x 1/4"M	60
918.3931	3/8" CHROMEplus Adaptor, 3/8"Fx1/2"M	60
918.3412	CHROMEplus Reducing adaptor 3/4"F x 1/2"M	195

1/4" UNIVERSAL JOINTS

Universal joint

- DIN 3123 / ISO 3316
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Flexible joint
- For manual operation
- Matt finish
- Chrome vanadium



1/4"

	□	■	L mm	g
911.1450	1/4"	1/4"	38,0	20

CHROME*plus*® Universal joint

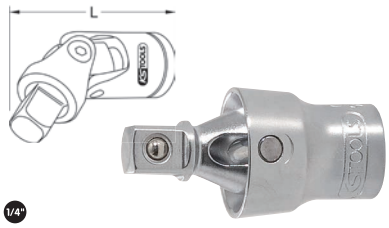
- DIN 3123 / ISO 3316
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Flexible joint
- For manual operation
- Mirror polished
- Chrome vanadium

1/4"

	□	■	L mm	g
918.1450	1/4"	1/4"	38,0	20

Power universal ball joint

- Ideal for use with electric screwdriver
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Very low running rotation
- New joint construction
- Outstanding use of angles up to 45°
- Very breakage resistant
- Can be used by hand or with an electric screwdriver
- Matt finish
- Chrome vanadium



1/4"

	□	■	L mm	g
917.1450	1/4"	1/4"	35,0	30

CHROME*plus*® Power universal ball joint

- Ideal for use with electric screwdriver
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Very low running rotation
- New joint construction
- Outstanding use of angles up to 45°
- Very breakage resistant
- Can be used by hand or with an electric screwdriver
- Mirror polished
- Chrome vanadium

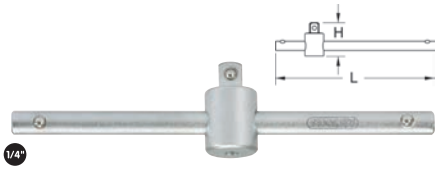
1/4"

	□	■	L mm	g
919.1450	1/4"	1/4"	35,0	30

1/4" T-HANDLES

Sliding T-handle

- DIN 3122 / ISO 3315
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- For manual operation
- Matt finish
- Chrome vanadium

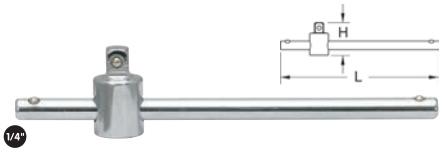


1/4"

	■	H mm	L mm	g
911.1425	1/4"	6,0	110,0	50

CHROME*plus*® Sliding T-handle

- DIN 3122 / ISO 3315
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- For manual operation
- Mirror polished
- Chrome vanadium



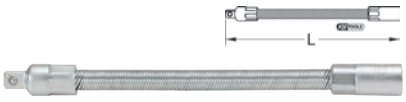
1/4"

	■	H mm	L mm	g
918.1451	1/4"	6,0	110,0	50

1/4" EXTENSIONS

Flexible extension

- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Limited torque due to a spiral spring
- For difficult to access areas
- For manual operation
- Matt finish
- Chrome vanadium

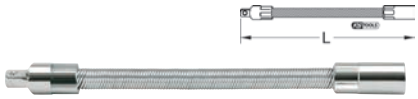


1/4"

	L mm	g
911.1422	150,0	60

CHROME*plus*® Flexible extension

- Square drive adaptor to DIN 3123 / ISO 3316 with ball lock
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Limited torque due to a spiral spring
- For difficult to access areas
- For manual operation
- Mirror polished
- Chrome vanadium



1/4"

	L mm	g
918.1505	150,0	60

Extension with hexagon drive

- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Hexagon drive
- For manual operation
- Matt finish
- Chrome vanadium

1/4"

	L mm	g
911.1423	50,0	30
911.1486	75,0	35
911.1424	100,0	40
911.1451	150,0	90
911.1504	250,0	130
911.2584	350,0	158
911.2585	400,0	164

Extension set

- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Hexagon drive
- For manual operation
- Matt finish
- Chrome vanadium

1/4" 3/8" 1/2"

			kg
911.0007	9 pcs	Extension set	1,22
3 x		1/4" : 50 - 100 - 250 mm	
4 x		3/8" : 45 - 75 - 150 - 200 mm	
2 x		1/2" : 125 - 250 mm	

CHROME*plus*® Extension

- DIN 3123 / ISO 3316
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Internal square to DIN 3120 / ISO 1174 with ball reception
- For manual operation
- Mirror polished
- Chrome vanadium

1/4"

	L mm	g
918.1452	50,0	20
918.1453	75,0	30
918.1455	100,0	50
918.1454	150,0	60
918.1652	250,0	130

CHROME*plus*® Extension set

- DIN 3123 / ISO 3316
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Internal square to DIN 3120 / ISO 1174 with ball reception
- For manual operation
- Mirror polished
- Chrome vanadium

1/4" 3/8" 1/2"

			kg
918.0007	9 pcs	CHROME*plus*® Extension set	1,22
3 x		1/4" : 50 - 100 - 250 mm	
4 x		3/8" : 45 - 75 - 150 - 200 mm	
2 x		1/2" : 125 - 250 mm	

Wobble extension with hexagon drive

- Internal square to DIN 3120 / ISO 1174 with ball reception
- Wobble extension with ball lock
- 8° tilt angle to each side
- Hexagon drive
- For manual operation
- Mirror polished
- Chrome vanadium

1/4"

	L mm	g
911.1506	50,0	20
911.1509	75,0	35
911.1507	100,0	40
911.1508	150,0	60
911.1543	250,0	130

Wobble extension set

- Internal square to DIN 3120 / ISO 1174 with ball reception
- Wobble extension with ball lock
- 8° tilt angle to each side
- For manual operation
- Matt finish
- Chrome vanadium

1/4" 3/8" 1/2"

			kg
911.0009	9 pcs	Wobble extension set	1,22
3 x		1/4" : 50 - 100 - 250 mm	
4 x		3/8" : 45 - 75 - 150 - 200 mm	
2 x		1/2" : 125 - 250 mm	

CHROME*plus*® Wobble extension

- Internal square to DIN 3120 / ISO 1174 with ball reception
- Wobble extension with ball lock
- 8° tilt angle to each side
- For manual operation
- Mirror polished
- Chrome vanadium

1/4"

	L mm	g
918.1403	50,0	20
918.1653	75,0	35
918.1401	100,0	40
918.1402	150,0	60
918.1458	250,0	100

CHROME*plus*® Wobble extension set

- Internal square to DIN 3120 / ISO 1174 with ball reception
- Wobble extension with ball lock
- 8° tilt angle to each side
- For manual operation
- Mirror polished
- Chrome vanadium

1/4" 3/8" 1/2"

			kg
918.0009	9 pcs	CHROME*plus*® Wobble extension set	1,22
3 x		1/4" : 50 - 100 - 250 mm	
4 x		3/8" : 45 - 75 - 150 - 225 mm	
2 x		1/2" : 125 - 250 mm	

CHROME*plus*® extension with interlock

- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Interlocking mechanism against accidental loosening
- For manual operation
- Mirror polished
- Chrome vanadium

1/4"

	L mm	g
919.1402	100,0	40
919.1404	150,0	60
919.1406	250,0	100

CHROME*plus*® Extension set with interlock

- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Interlocking mechanism against accidental loosening
- For manual operation
- Mirror polished
- Chrome vanadium

1/4"

			kg
919.0143	3 pcs	100 - 150 - 250 mm	0,33

CHROME*plus*® Extension set with interlock

- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Interlocking mechanism against accidental loosening
- For manual operation
- Mirror polished
- Chrome vanadium

1/4" 3/8" 1/2"

			kg
919.0007	7 pcs	CHROME*plus*® Extension set with interlock	1,24
2 x		1/4" : 100 - 150 mm	
3 x		3/8" : 75 - 150 - 250 mm	
2 x		1/2" : 125 - 250 mm	

1/4" MANUAL DRIVE TOOLS

Square drive screwdriver

- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Two component handle
- Matt finish
- Chrome vanadium

1/4"

	D mm	L1 mm	L2 mm	L3 mm	g
911.1434	6,0	150,0	60,0	90,0	140

CHROME*plus*® Square drive screwdriver

- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Two component handle
- Mirror polished
- Chrome vanadium

1/4"

	D	L1 mm	L2 mm	L3 mm	g
918.1434	1/4"	150,0	60,0	90,0	60

ERGOTORQUE*plus*® Square screwdriver

- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Two component handle
- Flexible blade with double spiral shaft
- Limited torque
- Plastic protective coating

1/4"

	D mm	L1 mm	L2 mm	L3 mm	g
159.1120	15,0	200,0	150,0	50,0	150

Flexi head drive handle

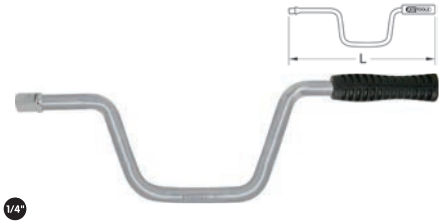
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Ideal for difficult to access areas
- Protects ratchet and torque wrenches from overloading
- Burnished head
- Matt finish
- Chrome vanadium

1/4"

	L mm	g
911.1568	145,0	70

Crank handle

- DIN 3122 / ISO 3315
- Square drive to DIN 3120 / ISO 1174 with ball lock
- For manual operation
- Matt finish
- Chrome vanadium



1/4"

	L mm	g
911.2358	370,0	310

1/4" RATCHETS

Hand reversible ratchet

- According to DIN 3122 / ISO 3315
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Reversible
- Easy and handy to use
- Extremely slim head
- Fine gearing 72 teeth ratchet mechanism
- Ergonomic 2 component handle
- Chrome vanadium

1/4"

	■	Tooth	g
914.1410	1/4"	72	50

Mini hand reversible ratchet set

- According to DIN 3122 / ISO 3315
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Reversible
- Easy and handy to use
- Extremely slim head
- Fine gearing 72 teeth ratchet mechanism
- Ergonomic 2 component handle
- Chrome vanadium

1/4" 3/8" 1/2"

			g
914.1215	3 pcs	Mini hand reversible ratchet set	165

consists of:

		g
914.1410	Hand reversible ratchet, 1/4", 72 teeth	50
914.3810	Hand reversible ratchet, 3/8", 72 teeth	55
914.1210	Hand reversible ratchet, 1/2", 72 teeth	60

ERGOTORQUE®*max* T-handle ratchet

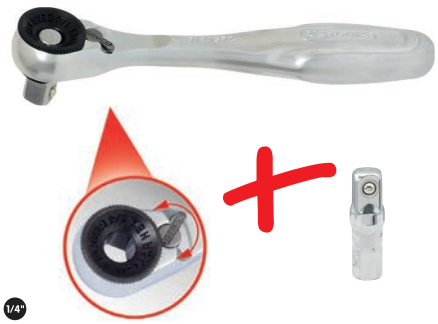
- DIN 3122 / ISO 3315
- With 1/4" square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Two component handle
- Reversible
- Exact gearing with 45-teeth
- With hanging hole
- Handy and compact
- Matt finish
- Chrome vanadium

1/4"

	B mm	L1 mm	L2 mm	g
151.1109	115,0	110,0	55,0	40

Bit ratchet reversible with adaptor for sockets

- With 1/4" square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- For bits with external hexagon drive to DIN 3126 / ISO 1173 - C 6,3
- Reversible
- Exact gearing with 72 teeth
- Extremely flat construction form
- Matt finished
- Special tool steel



1/4"

		Length mm	○	■	g
918.1595	2 pcs	100,0	1/4"	1/4"	98

Bit-joint change-over ratchet set with plug adapter for sockets

- For bits with external hexagon drive to DIN 3126 / ISO 1173 - C 6,3
- With square drive according to DIN 3120 / ISO 1174 with ball lock
- Reversible
- 180° revolving head
- Fine gearing 72 teeth ratchet mechanism
- Infinitely variable
- With extension and 1/4" plug-in adapter
- Extremely flat construction form
- Matt finished
- Chrome vanadium

1/4"

		Length mm	○	■	
918.1590	3 pcs	119,0	1/4"	1/4"	104

consists of:

503.8231	Socket adaptor f.bit ratchet, 1/4"x1/4"	6
918.1560	1/4" Bit-joint reversing ratchet, length 119mm	66
514.1124	1/4" extension, 100mm	33

Mini reversible ratchet

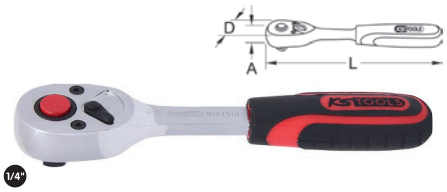
- According to DIN 3122 / ISO 3315
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Reversible
- Fine gearing 72 teeth ratchet mechanism
- With ejection mechanism on the ratchet head
- Ergonomic 2 component handle
- Recessed reverse lever
- Matt finish
- Chrome vanadium

1/4"

	A mm	D mm	L mm	Repair set	
911.1510	10,0	22,0	110,0	911.1599	70

CHROME*plus*® Mini reversible ratchet

- According to DIN 3122 / ISO 3315
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Reversible
- Fine gearing 72 teeth ratchet mechanism
- With ejection mechanism on the ratchet head
- Ergonomic 2 component handle
- Recessed reverse lever
- Mirror polished
- Chrome vanadium



1/4"

	A mm	D mm	L mm	Repair set	
918.1510	10,0	22,0	110,0	911.1599	70

Reversible ratchet

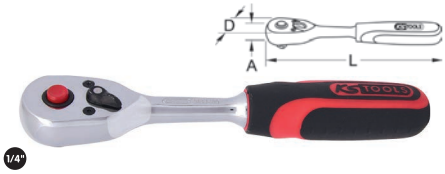
- DIN 3122 / ISO 3315
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Reversible
- Exact gearing 45 teeth ratchet mechanism
- With ejection mechanism on the ratchet head
- Ergonomic 2 component handle
- Matt finish
- Chrome vanadium

1/4"

	A mm	D mm	L mm	Repair set	
911.1400	12,0	25,0	145,0	911.1499	130

CHROME*plus*® Reversible ratchet

- DIN 3122 / ISO 3315
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Reversible
- Exact gearing 45 teeth ratchet mechanism
- With ejection mechanism on the ratchet head
- Ergonomic 2 component handle
- Mirror polished
- Chrome vanadium

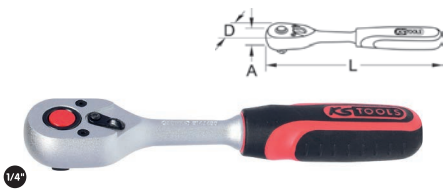


1/4"

	A mm	D mm	L mm	Repair set	
918.1400	12,0	25,0	145,0	911.1499	130

Reversible ratchet

- According to DIN 3122 / ISO 3315
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Reversible
- Fine gearing 72 teeth ratchet mechanism
- With ejection mechanism on the ratchet head
- Ergonomic 2 component handle
- Recessed reverse lever
- Matt finish
- Chrome vanadium



1/4"

	A mm	D mm	L mm	Repair set	
914.1490	12,0	26,0	145,0	914.1497	130

CHROME*plus*® Reversible ratchet

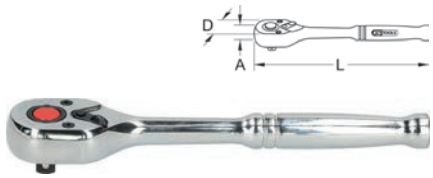
- According to DIN 3122 / ISO 3315
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Reversible
- Fine gearing 72 teeth ratchet mechanism
- With ejection mechanism on the ratchet head
- Ergonomic 2 component handle
- Recessed reverse lever
- Mirror polished
- Chrome vanadium

1/4"

	A mm	D mm	L mm	Repair set	
918.1490	12,0	26,0	145,0	914.1497	130

CHROME*plus*® Reversible ratchet

- According to DIN 3122 / ISO 3315
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Reversible
- Fine gearing 72 teeth ratchet mechanism
- With ejection mechanism on the ratchet head
- Recessed reverse lever
- Mirror polished
- Chrome vanadium

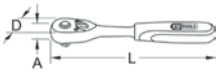


1/4"

	A mm	D mm	L mm	Repair set	
918.1593	12,0	25,0	145,0	914.1497	150

SlimPOWER reversible ratchet

- According to DIN 3122 / ISO 3315
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Reversible
- Very robust as a result of double pin technology
- Extremely slim head
- Fine gearing 72 teeth ratchet mechanism
- With ejection mechanism on the ratchet head
- Ergonomic 2-component handle with a soft zone
- Mirror polished
- Chrome vanadium



1/4"

	A mm	D mm	L mm	Repair set	
920.1490	20,0	20,0	140,0	920.1490-1	80

SlimPOWER reversible ratchet set

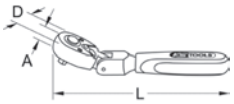
- According to DIN 3122 / ISO 3315
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Reversible
- Extremely slim head
- Fine gearing 72 teeth ratchet mechanism
- With ejection mechanism on the ratchet head
- Ergonomic 2-component handle with a soft zone
- Mirror polished
- Chrome vanadium

1/4" 1/2"

920.0002	2 pcs	1/4" + 1/2"	430

Flexibel head reversible ratchet

- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- 180° revolving head with locking device
- Reversible
- Exact gearing 45 teeth ratchet mechanism
- With ejection mechanism on the ratchet head
- Ergonomic 2 component handle
- Recessed reverse lever
- Matt finish
- Chrome vanadium

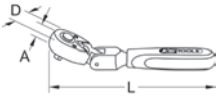


1/4"

	A mm	D mm	L mm	Repair set	
911.1495	12,0	26,0	140,0	911.1499	160

CHROME*plus*® Flexibel head reversible ratchet

- DIN 3122 / ISO 3315
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- 180° revolving head
- Reversible
- Exact gearing 72 teeth ratchet mechanism
- With ejection mechanism on the ratchet head
- Ergonomic 2 component handle
- Recessed reverse lever
- Mirror polished
- Chrome vanadium



1/4"

	A mm	D mm	L mm	Repair set	
918.1493	12,0	26,0	140,0	914.1497	130

MODIFIX® Mini T-handle ratchet, rotating head

- Square drive to DIN 3120 / ISO 1174 with ball lock
- Reversible
- Fine gearing 72 teeth ratchet mechanism
- Multifunctional use
- Rotating shaft adjustable for constant tightening in the base of the rotating head
- Ergonomic 2-component handle with a soft zone
- Matt finish
- Chrome vanadium

Application: T-handle ratchet / screwdriver ratchet Adjustable in 2 positions 0° + 90°

1/4"

	A mm	D mm	L mm	head,spare	
914.1405	20,0	30,0	165,0	914.1405-1	179,0

SlimPOWER telescopic-joint changeover ratchet

- According to DIN 3122 / ISO 3315
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Reversible
- Very robust as a result of double pin technology
- 180° revolving head
- Fine gearing 72 teeth ratchet mechanism
- Adjustable in 5 steps
- With ejection mechanism on the ratchet head
- Ergonomic 2-component handle with a soft zone
- Matt finish
- Chrome vanadium

1/4"

	A mm	D mm	L mm	Repair set	
914.1420	10,0	21,0	150,0-200,0	914.1420-1	138

1/4" SET ASSORTMENTS

CHROME*plus*® Socket set

- 6 point
- FlankTraction profile
- Mirror polished
- Chrome vanadium
- In durable plastic storage case

1/4"

918.0613	13 pcs	CHROME*plus*® Socket set	0,78
11 x		4 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 13 mm	
1 x		100 mm	
1 x		140 mm	

Socket set

- 6 point
- FlankTraction profile
- Matt finish
- Chrome vanadium
- In durable plastic storage case

1/4"

911.0623	23 pcs	Socket set	0,45
12 x		4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 12 - 13 mm	
1 x		1/4“	
1 x		100 mm	
1 x		1/4“	
2 x		PH1 - PH2	
2 x		PZ1 - PZ2	
4 x		T15 - T20 - T25 - T30	

Socket set

- 6 point
- FlankTraction profile
- Matt finish
- Chrome vanadium
- In durable plastic storage case

1/4"

			kg
911.0625	25 pcs	Socket set	0,83
13 x		4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 12 - 13 - 14 mm	
2 x		50 - 100 mm	
1 x		150 mm	
1 x		1/4“	
1 x		1/4“	
1 x		1/4“	
1 x		1/4“ x 1/4“	
4 x		1,0 - 1,5 - 2,0 - 2,5 mm	
1 x		1/4“	

Socket set

- 6 point
- FlankTraction profile
- Matt finish
- Chrome vanadium
- In durable plastic storage case

1/4"

			kg
917.0626	26 pcs	Socket set	0,44
12 x		4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm	
1 x		1/4“	
1 x		100 mm	
1 x		1/4“	
2 x		PH1 - PH2	
2 x		PZ1 - PZ2	
3 x		4 - 5,5 - 6,5 mm	
4 x		T15 - T20 - T25 - T30	

CHROME*plus*® Socket set

- 6 point
- FlankTraction profile
- Mirror polished
- Chrome vanadium
- In durable plastic storage case

1/4"

			kg
918.0626	26 pcs	CHROME*plus*® Socket set	0,44
12 x		4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 12 - 13 mm	
1 x		1/4“	
1 x		100 mm	
1 x		1/4“	
2 x		PH1 - PH2	
2 x		PZ1 - PZ2	
3 x		4 - 5,5 - 6,5 mm	
4 x		T15 - T20 - T25 - T30	

Socket set

- 6 point
- FlankTraction profile
- Matt finish
- Chrome vanadium
- In durable steel storage case

1/4"

			kg
917.4030	30 pcs	Socket set	1,20
11 x		4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 14 mm	
3 x		4 - 5,5 - 6 mm	
3 x		PH1 - PH2 - PH3	
3 x		PZ1 - PZ2 - PZ3	
4 x		3 - 4 - 5 - 6 mm	
2 x		50 - 100 mm	
1 x		1/4“	
1 x		1/4“	
1 x		1/4“	
1 x		1/4“	

Socket set

- 6 point
- FlankTraction profile
- Matt finish
- Chrome vanadium
- In durable steel storage case

1/4"

			kg
911.0833	33 pcs	Socket set	1,52
13 x		4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 12 - 13 - 14 mm	
6 x		3 - 4 - 5 - 6 - 7 - 8 mm	
7 x		TB10 - TB15 - TB20 - TB25 - TB27 TB30 - TB40	
2 x		50 - 100 mm	
1 x		1/4“	
1 x		1/4“	
1 x		1/4“: 110 mm	
1 x		1/4“ x 1/4“	
1 x		140 mm	

CHROME*plus*® Socket set

- 6 point
- FlankTraction profile
- Mirror polished
- Chrome vanadium
- In durable plastic storage case

1/4"

918.0640	40 pcs	CHROME*plus*® Socket set	0,80
13 x		4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 12 - 13 - 14 mm	
2 x		PH1 - PH2	
6 x		PZ1 - PZ2	
7 x		3 - 4 - 5 - 6 - 7 - 8 mm	
5 x		T10 - T15 - T20 - T25 - T27 - T30 T40	
1 x		M4 - M5 - M6 - M8 - M10	
1 x		1/4“	
1 x		100 mm	
1 x		1/4“	
1 x		1/4“	
1 x		110 mm	

Socket set

- Matt finish
- Chrome vanadium
- In durable plastic storage case

1/4"

911.0646	46 pcs	Socket set	1,10
13 x		4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 12 - 13 - 14 mm	
3 x		4 - 5,5 - 7 mm	
3 x		PH1 - PH2 - PH3	
2 x		PZ1 - PZ2	
6 x		3 - 4 - 5 - 6 - 7 - 8 mm	
7 x		T10 - T15 - T20 - T25 - T27 - T30 T40	
2 x		50 - 100 mm	
1 x		150 mm	
1 x		1/4“	
1 x		1/4“	
1 x		1/4“	
4 x		1 - 1,5 - 2 - 2,5 mm	
1 x		1/4“ x 1/4“	
1 x		1/4“	

CHROME*plus*® Socket set

- 6 point
- FlankTraction profile
- Mirror polished
- Chrome vanadium
- In durable plastic storage case

1/4"

918.0646	46 pcs	CHROME*plus*® Socket set	1,10
13 x		4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 12 - 13 - 14 mm	
3 x		4 - 5,5 - 7 mm	
3 x		PH1 - PH2 - PH3	
2 x		PZ1 - PZ2	
6 x		3 - 4 - 5 - 6 - 7 - 8 mm	
7 x		T10 - T15 - T20 - T25 - T27 - T30 T40	
2 x		50 - 100 mm	
1 x		150 mm	
1 x		1/4“	
1 x		1/4“	
1 x		1/4“	
4 x		1 - 1,5 - 2 - 2,5 mm	
1 x		1/4“ x 1/4“	
1 x		145 mm	

CHROME*plus*® Socket set

- Imperial sizes
- 6 point
- FlankTraction profile
- Mirror polished
- Chrome vanadium
- In durable plastic storage case

1/4"

918.0847	47 pcs	CHROME*plus*® Socket set	1,13
10 x		5/32“ - 3/16“ - 7/32“ - 1/4“ - 9/32“ 5/16“ - 11/32“ - 3/8“ - 7/16“ - 1/2“	
10 x		5/32“ - 3/16“ - 7/32“ - 1/4“ - 9/32“ 5/16“ - 11/32“ - 3/8“ - 7/16“ - 1/2“	

3 x	4 - 5,5 - 7 mm
2 x	PH1 - PH2
5 x	1/8“ - 5/32“ - 3/16“ - 7/32“ - 1/4“
6 x	T10 - T15 - T20 - T25 - T30 - T40
4 x	M4 - M5 - M6 - M8
2 x	50 - 100 mm
1 x	150 mm
1 x	1/4“
1 x	1/4“
1 x	110 mm
1 x	110 mm

Socket set

- 6 point
- FlankTraction profile
- Matt finish
- Chrome vanadium
- In durable plastic storage case

1/4“

917.0648	48 pcs	Socket set	1,15 kg
13 x			4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 12 - 13 mm
1 x			1/4“
1 x			1/4“
2 x			50 - 100 mm
1 x			150 mm
1 x			110 mm
1 x			1/4“
1 x			150 mm
3 x			PH1 - PH2 - PH3
2 x			PZ1 - PZ2
7 x			T10 - T15 - T20 - T25 - T27 - T30 - T40
3 x			4 - 5,5 - 7 mm
6 x			3 - 4 - 5 - 6 - 7 - 8 mm
6 x			0,9 - 1,5 - 1,27 - 2 - 2,5 - 3 mm

CHROME*plus*® Socket set

- 6 point
- FlankTraction profile
- Mirror polished
- Chrome vanadium
- In durable plastic storage case

1/4“

918.0648	48 pcs	CHROME*plus*® Socket set	1,12 kg
13 x			4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 12 - 13 mm
1 x			1/4“
1 x			1/4“
2 x			50 - 100 mm
1 x			150 mm
1 x			110 mm
1 x			1/4“
1 x			150 mm
3 x			PH1 - PH2 - PH3
2 x			PZ1 - PZ2
7 x			T10 - T15 - T20 - T25 - T27 - T30 - T40
3 x			4 - 5,5 - 7 mm
6 x			3 - 4 - 5 - 6 - 7 - 8 mm
6 x			0,9 - 1,5 - 1,27 - 2 - 2,5 - 3 mm

Socket set

- 6 point
- FlankTraction profile
- Matt finish
- Chrome vanadium
- In durable plastic storage case

1/4“

951.0650	50 pcs	Socket set	1,89 kg
13 x			4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 mm
3 x			4 - 5,5 - 7 mm
3 x			PH1 - PH2 - PH3
3 x			PZ1 - PZ2 - PZ3
6 x			3 - 4 - 5 - 6 - 7 - 8 mm
7 x			T10 - T15 - T20 - T25 - T27 - T30 - T40
6 x			M4 - M5 - M6 - M7 - M8 - M10
1 x			1/4“ x 10 mm
1 x			150 mm
1 x			110 mm
1 x			150 mm
2 x			50 - 100 mm
1 x			100 mm
1 x			1/4“
1 x			140 mm

CHROME*plus*® socket set

- 6 point
- FlankTraction profile
- Mirror polished
- Chrome vanadium
- In durable plastic storage case

1/4“

958.0650	50 pcs	CHROME*plus*® socket set	1,70 kg
13 x			4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 mm
3 x			4 - 5,5 - 7 mm
3 x			PH1 - PH2 - PH3
3 x			PZ1 - PZ2 - PZ3
6 x			3 - 4 - 5 - 6 - 7 - 8 mm
7 x			T10 - T15 - T20 - T25 - T27 - T30 - T40
6 x			M4 - M5 - M6 - M7 - M8 - M10
1 x			1/4“ x 10 mm
1 x			150 mm
1 x			110 mm
1 x			150 mm
2 x			50 - 100 mm
1 x			100 mm
1 x			1/4“
1 x			140 mm

Socket set

- 6 point
- FlankTraction profile
- Matt finish
- Chrome vanadium
- In durable plastic storage case

1/4"

911.0651	51 pcs	Socket set	1,35 kg
13 x		4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 12 - 13 - 14 mm	
3 x		4 - 5,5 - 7 mm	
3 x		PH1 - PH2 - PH3	
3 x		PZ1 - PZ2 - PH3	
6 x		3 - 4 - 5 - 6 - 7 - 8 mm	
7 x		T10 - T15 - T20 - T25 - T27 - T30 T40	
2 x		50 - 100 mm	
1 x		150 mm	
1 x		1/4"	
1 x		1/4"	
1 x		1/4"	
1 x		1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm	
1 x		145 mm	

Socket set

- 6 point
- FlankTraction profile
- Matt finish
- Chrome vanadium
- In durable plastic storage case

1/4"

951.0652	52 pcs	Socket set	1,80 kg
11 x		3/16" - 7/32" - 1/4" - 9/32" - 5/16" - 11/32" 3/8" - 13/32" - 7/16" - 1/2" - 9/16"	
10 x		5/32" - 3/16" - 7/32" - 1/4" - 9/32" - 5/16" - 11/32" - 3/8" - 7/16" - 1/2"	
3 x		4 - 5,5 - 7 mm	
2 x		PH1 - PH2	
2 x		PZ1 - PZ2	
5 x		1/8" - 5/32" - 3/16" - 7/32" - 1/4"	
7 x		T10 - T15 - T20 - T25 - T27 - T30 - T40	
4 x		M4 - M5 - M6 - M8	
1 x		150 mm	
1 x		110 mm	
1 x		150 mm	
2 x		50 - 100 mm	
1 x		1/4"	
1 x		1/4"	
1 x		140 mm	

CHROME*plus*® socket set

- 6 point
- FlankTraction profile
- Mirror polished
- Chrome vanadium
- In durable plastic storage case

1/4"

958.0652	52 pcs	CHROME*plus*® socket set	1,90 kg
11 x		3/16" - 7/32" - 1/4" - 9/32" - 5/16" - 11/32" 3/8" - 13/32" - 7/16" - 1/2" - 9/16"	
10 x		5/32" - 3/16" - 7/32" - 1/4" - 9/32" - 5/16" - 11/32" - 3/8" - 7/16" - 1/2"	
3 x		4 - 5,5 - 7 mm	
2 x		PH1 - PH2	
2 x		PZ1 - PZ2	
5 x		1/8" - 5/32" - 3/16" - 7/32" - 1/4"	
7 x		T10 - T15 - T20 - T25 - T27 - T30 - T40	
4 x		M4 - M5 - M6 - M8	
1 x		150 mm	
1 x		110 mm	
1 x		150 mm	
2 x		50 - 100 mm	
1 x		1/4"	
1 x		1/4"	
1 x		140 mm	

Socket set

- 6 point
- FlankTraction profile
- Matt finish
- Chrome vanadium
- In durable plastic storage case

1/4"

911.0653	53 pcs	Socket set	1,55 kg
13 x		4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 12 - 13 - 14 mm	
7 x		6 - 7 - 8 - 10 - 11 - 12 - 13 mm	
3 x		4 - 5,5 - 7 mm	
3 x		PH1 - PH2 - PH3	
3 x		PZ1 - PZ2 - PZ3	
6 x		3 - 4 - 5 - 6 - 7 - 8 mm	
6 x		T10 - T15 - T20 - T25 - T30 - T40	
2 x		50 - 100 mm	
1 x		150 mm	
1 x		1/4"	
1 x		1/4"	
1 x		1/4"	
1 x		1 - 1,5 - 2 - 2,5 mm	
1 x		1/4" x 1/4"	
1 x		145 mm	

Socket set

- 6 point
- FlankTraction profile
- Matt finish
- Chrome vanadium
- In durable plastic storage case

1/4"

951.0654	54 pcs	Socket set	1,89 kg
13 x		4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 mm	

9 x		5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm
3 x		4 - 5,5 - 7 mm
2 x		PH1 - PH2
2 x		PZ1 - PZ2
6 x		3 - 4 - 5 - 6 - 7 - 8 mm
7 x		T10 - T15 - T20 - T25 - T27 - T30 - T40
4 x		M4 - M5 - M6 - M8
1 x		150 mm
1 x		110 mm
1 x		150 mm
1 x		50 mm
1 x		100 mm
1 x		1/4“
1 x		1/4“
1 x		140 mm

CHROME*plus*® socket set

- 6 point
- FlankTraction profile
- Mirror polished
- Chrome vanadium
- In durable plastic storage case

1/4“

				kg
958.0654	54 pcs	CHROME*plus*® socket set		1,89
13 x				4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 mm
9 x				5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm
3 x				4 - 5,5 - 7 mm
2 x				PH1 - PH2
2 x				PZ1 - PZ2
6 x				3 - 4 - 5 - 6 - 7 - 8 mm
7 x				T10 - T15 - T20 - T25 - T27 - T30 - T40
4 x				M4 - M5 - M6 - M8
1 x				150 mm
1 x				110 mm
1 x				150 mm
1 x				50 mm
1 x				100 mm
1 x				1/4“
1 x				1/4“
1 x				140 mm

1/4” SET ASSORTMENTS

Torx Socket set

- Matt finish
- Chrome vanadium
- In durable plastic storage case

1/4“ 1/2“

				kg
911.4307	21 pcs	Torx Socket set		1,15
4 x				1/4“: E4 - E5 - E6 - E8
5 x				1/2“: E10 - E12 - E14 - E18 - E20
7 x				1/4“: T8 - T10 - T15 - T20 - T25 T27 - T30
5 x				1/2“: T40 - T45 - T50 - T55 - T60

Torx Socket set

- Matt finish
- Chrome vanadium
- In durable plastic storage case

1/4“ 3/8“ 1/2“

				kg
911.4302	31 pcs	Torx Socket set		1,40
6 x				1/4“: T10 - T15 - T20 - T25 - T27 - T30
3 x				5/16“: T40 - T45 - T50
3 x				1/4“: TB30 x 30 mm - TB25 x 75 mm - TB30 x 75 mm
2 x				1/2“: T55 - T60
4 x				1/4“: E5 - E6 - E7 - E8
3 x				3/8“: E10 - E12 - E14
3 x				1/2“: E16 - E18 - E20
3 x				1/4“ x 1/4“ - 3/8“ x 5/16“ - 1/2“ x 5/16“
4 x				E6 x E8 - E7 x E11 - E10 x E12 E14 x E18 -

Torx Socket and bit set

- Matt finish
- Chrome vanadium
- In durable plastic storage case

1/4“ 3/8“ 1/2“

				kg
911.4305	57 pcs	Torx Socket and bit set		2,00
2 x				3/8“ x 10mm - 1/2“ x 1/4“
12 x				1/4“: E4 - E5 - E6 - E7 - E8; 3/8“: E10 - E11 - E12 - E14;1/2“: E16 - E18 - E20
7 x				4 - 5 - 6 - 7 - 8 - 10 - 12 mm
9 x				TB20 - TB25 - TB27 - TB30 - TB40 - TB45 - TB50 - TB55 - TB60
5 x				M5 - M6 - M8 - M10 - M12
2 x				8 - 10 mm
2 x				PH2 - PH3
5 x				5 - 6 - 7 - 8 - 10 mm
9 x				T20 - T25 - T27 - T30 - T40 - T45 - T50 - T55 - T60
4 x				M6 - M8 - M10 - M12

Torx Socket and bit set

- Matt finish
- Chrome vanadium
- In durable plastic storage case

1/4“ 3/8“ 1/2“

				kg
911.4301-1	30 pcs	Torx Socket and bit set		1,45
5 x				1/4“: E4 - E5 - E6 - E7 - E8
4 x				3/8“: E10 - E11 - E12 - E14
5 x				1/2“: E16 - E18 - E20 - E22 - E24
2 x				3/8“ x 10 mm - 1/2“ x 10mm
7 x				30 mm (T20 - T25 - T30 - T40 - T45 T50 - T55)
7 x				75 mm (T20 - T25 - T30 - T40 - T45 T50 - T55)

Torx Bit socket set for Torx tamperproof screws

- Matt finish
- Chrome vanadium
- In durable plastic storage case

1/4" 3/8" 1/2"

			kg
911.4301-2	30 pcs	Torx Bit socket set for Torx tamper-proof screws	1,45
5 x		1/4": E4 - E5 - E6 - E7 - E8	
4 x		3/8": E10 - E11 - E12 - E14	
5 x		1/2": E16 - E18 - E20 - E22 - E24	
2 x		3/8" x 10 mm - 1/2" x 10mm	
7 x		30 mm (TB20 - TB25 - TB30 - TB40 TB45 - TB50 - TB55)	
7 x		75 mm (TB20 - TB25 - TB30 - TB40 TB45 - TB50 - TB55)	

Socket set

- 6 point
- FlankTraction profile
- Matt finish
- Chrome vanadium
- In durable plastic storage case

1/4" 1/2"

			kg
951.0668	68 pcs	Socket set	4,97
10 x		1/4": 5,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 mm	
20 x		1/2": 8 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 23 - 24 - 27 - 30 - 32 - 34 mm	
3 x		1/4": 4,5 - 6,5 - 8 mm	
3 x		1/4": PH1 - PH2 - PH3	
3 x		1/4": PZ1 - PZ2 - PZ3	
6 x		1/4": 3 - 4 - 5 - 6 - 7 - 8 mm	
7 x		1/4": T15 - T20 - T25 - T27 - T30 - T40 - T45	
5 x		1/4": M4 - M5 - M6 - M8 - M10	
1 x		1/4"	
1 x		1/4"	
2 x		1/4": 50 - 100 mm	
2 x		1/2": 125 - 250 mm	
2 x		1/4" - 1/2"	
1 x		1/4": 150 mm	
2 x		1/4" - 1/2"	

CHROME*plus*® socket set

- 6 point
- FlankTraction profile
- Mirror polished
- Chrome vanadium
- In durable plastic storage case

1/4" 1/2"

			kg
958.0668	68 pcs	CHROME*plus*® socket set	4,97
10 x		1/4": 5,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 mm	
20 x		1/2": 8 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 23 - 24 - 27 - 30 - 32 - 34 mm	
3 x		1/4": 4,5 - 6,5 - 8 mm	
3 x		1/4": PH1 - PH2 - PH3	
3 x		1/4": PZ1 - PZ2 - PZ3	
6 x		1/4": 3 - 4 - 5 - 6 - 7 - 8 mm	
7 x		1/4": T15 - T20 - T25 - T27 - T30 - T40 - T45	
5 x		1/4": M4 - M5 - M6 - M8 - M10	
1 x		1/4"	
1 x		1/4"	
2 x		1/4": 50 - 100 mm	
2 x		1/2": 125 - 250 mm	
2 x		1/4" - 1/2"	
1 x		1/4": 150 mm	
2 x		1/4" - 1/2"	

CHROME*plus*® Socket set

- 6 point
- FlankTraction profile
- Mirror polished
- Chrome vanadium
- In durable plastic storage case

1/4" 1/2"

			kg
918.0678	78 pcs	CHROME*plus*® Socket set	6,30
13 x		1/4": 4-4,5-5-5,5-6-7-8-9-10-11-12 13-14 mm	
8 x		1/4": 6-7-8-9-10-11-12-13 mm	
15 x		1/2": 13-14-15-16-17-18-19-20-21-22 24-27-30-32-34 mm	
5 x		1/2": 14-15-17-19-22 mm	
3 x		1/2": 16-18-21 mm	
2 x		1/4": PH1-PH2	
2 x		1/4": PZ1-PZ2	
6 x		1/4": 3-4-5-6-7-8 mm	
7 x		1/4": T10-T15-T20-T25-T27 T30-T40	
6 x		1/4": M4-M5-M6-M7-M8-M10	
1 x		1/4"	
2 x		1/4": 50-100 mm	
1 x		1/4"	
1 x		1/4"	
1 x		1/4": 145 mm	
1 x		F3/8" x M1/2"	
2 x		1/2": 125-250 mm	
1 x		1/2"	
1 x		1/2": 250 mm	

Socket set

- 6 point
- FlankTraction profile
- Matt finish
- Chrome vanadium
- In durable plastic storage case

1/4" 1/2"

			kg
911.0682	82 pcs	Socket set	5,80
13 x		1/4": 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 mm	
12 x		1/2": 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 24 - 27 - 30 - 32 mm	
2 x		1/2": 16 - 21 mm	
3 x		1/4": 4 - 5,5 - 7 mm	
2 x		1/4": PH1 - PH2	
2 x		1/4": PZ1 - PZ2	
4 x		1/4": 3 - 4 - 5 - 6 mm	
6 x		1/4": T8 - T10 - T15 - T20 - T25 - T30	
3 x		5/16": 8 - 10 - 12 mm	
2 x		5/16": PH3 - PH4	
2 x		5/16": PZ3 - PZ4	
4 x		5/16": 8 - 10 - 12 - 14	
4 x		5/16": T40 - T45 - T50 - T55	
2 x		1/4": 50 - 100 mm	
1 x		1/4": 150 mm	
1 x		1/4"	
1 x		1/4"	
1 x		1/4"	
1 x		1/4"	
1 x		1/4"	
2 x		1/2": 125 + 250 mm	
1 x		1/2"	
1 x		1/2"	
1 x		1/2" x 5/16"	
1 x		1/2"	
9 x		8 - 10 - 11 - 12 - 13 - 14 - 17 - 19 - 22 mm	

Tool kit

- 6 point
- FlankTraction profile
- Matt finish
- Chrome vanadium
- In durable plastic storage case

1/4" 1/2"

			kg
911.0688	88 pcs	Tool kit	7,45
12 x		1/4": 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 12 - 13 mm	
17 x		1/2": 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 23 - 24 - 25 - 26 - 27 - 28 30 - 32 mm	
1 x		1/4": 911.2060	
2 x		1/4": 50 - 100 mm	
1 x		1/4"	
1 x		1/4"	
1 x		1/4": 145 mm	
1 x		1/2": 125 mm	
1 x		1/2": 250 mm	
2 x		6,5 - 8 mm	
2 x		PH1 - PH2	
1 x		150 - 250 V	
1 x		250 mm	
1 x		180 mm	
1 x		300 g	
12 x		6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 17 19 - 22 mm	

Socket set

- 6 point
- FlankTraction profile
- Matt finish
- Chrome vanadium
- In durable plastic storage case

1/4" 1/2"

			kg
911.0694	94 pcs	Socket set	6,20
13 x		1/4": 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 12 - 13 - 14 mm	
8 x		1/4": 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm	
18 x		1/2": 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 19 - 20 - 21 - 22 - 23 - 24 27 - 30 - 32 mm	
4 x		1/2": 14 - 15 - 17 - 19 mm	
2 x		1/2": 16 - 21 mm	
3 x		1/4": 4 - 5,5 - 7 mm	
2 x		1/4": PH1 - PH2	
2 x		1/4": PZ1 - PZ2	
4 x		1/4": 3 - 4 - 5 - 6 mm	
6 x		1/4": TB8 - TB10 - TB15 - TB20 - TB25 - TB30	
2 x		1/4": 50 - 100 mm	
1 x		1/4": 150 mm	
3 x		5/16": 8 - 10 - 12 mm	
2 x		5/16": PH3 - PH4	
2 x		5/16": PZ3 - PZ4	
4 x		5/16": 8 - 10 - 12 - 14 mm	
4 x		5/16": TB40 - TB45 - TB50 - TB55	
1 x		1/4"	
1 x		1/4"	
1 x		1/4"	
1 x		1/4": 145 mm	
4 x		1 - 1,5 - 2 - 2,5 mm	
1 x		1/4"	
2 x		1/2": 125 - 250 mm	
1 x		1/2"	
1 x		1/2"	
1 x		1/2" x 5/16"	
1 x		1/2": 250 mm	

CHROME*plus*® Socket set

- 6 point
- FlankTraction profile
- Mirror polished
- Chrome vanadium
- In durable plastic storage case

1/4" 1/2"

			kg
918.0694	94 pcs	CHROME*plus*® Socket set	6,38

13 x	1/4": 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 11 - 12 - 13 - 14 mm
8 x	1/4": 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm
18 x	1/2": 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 19 - 20 - 21 - 22 - 23 - 24 - 27 - 30 - 32 mm
4 x	1/2": 14 - 15 - 17 - 19 mm
2 x	1/2": 16 - 21 mm
3 x	1/4": 4 - 5,5 - 7 mm
2 x	1/4": PH1 - PH2
2 x	1/4": PZ1 - PZ2
4 x	1/4": 3 - 4 - 5 - 6 mm
6 x	1/4": TB8 - TB10 - TB15 - TB20 TB25 - TB30
2 x	1/4": 50 - 100 mm
1 x	1/4": 150 mm
3 x	5/16": 8 - 10 - 12 mm
2 x	5/16": PH3 - PH4
2 x	5/16": PZ3 - PZ4
4 x	5/16": 8 - 10 - 12 - 14 mm
4 x	5/16": T40 - T45 - T50 - T55
1 x	1/4"
1 x	1/4"
1 x	1/4"
1 x	1/4": 145 mm
4 x	1 - 1,5 - 2 - 2,5 mm
1 x	1/4"
2 x	1/2": 125 - 250 mm
1 x	F3/8" x M1/2"
1 x	1/2"
1 x	1/2" x 5/16"
1 x	1/2": 250 mm

Socket set

- 6 point
- FlankTraction profile
- Matt finish
- Chrome vanadium
- In durable plastic storage case

1/4" 1/2"

			kg
917.0796	96 pcs	Socket set	6,30

13 x	1/4": 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 11 - 12 - 13 -14 mm
8 x	1/4": 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm
18 x	1/2": 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 19 - 20 - 21 - 22 - 23 - 24 - 27 - 30 - 32 mm
4 x	1/2": 14 - 15 - 17 - 19 mm
2 x	1/2": 16 - 21 mm
1 x	1/4"
1 x	1/2"
1 x	3/8"Fx1/2"M
1 x	1/4"
1 x	1/2"x 5/16"
1 x	110 mm
2 x	1/4": 50 - 100 mm
2 x	1/2": 125 - 250 mm
1 x	1/4": 150 mm
1 x	1/4"
1 x	1/4"
1 x	1/2"
2 x	1/4": PH1 - PH2
2 x	1/4": PZ1 - PZ2
3 x	1/4": 4 - 5,5 - 7 mm
4 x	1/4": 3 - 4 - 5 - 6 mm
6 x	1/4": TB8 - TB10 - TB15 - TB20 TB25 - TB30
2 x	5/16": PZ3 - PZ4
2 x	5/16": PH3 - PH4
3 x	5/16": 8 - 10 - 12 mm
4 x	5/16": 8 - 10 - 12 - 14 mm
4 x	5/16": TB40 - TB45 - TB50 - TB55
5 x	0,9 - 1,27 - 1,5 - 2,0 - 2,5 mm

CHROME*plus*® Socket set

- 6 point
- FlankTraction profile
- Mirror polished
- Chrome vanadium
- In durable plastic storage case

1/4" 1/2"

			kg
918.0796	96 pcs	CHROME*plus*® Socket set	6,20

13 x	1/4": 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 11 - 12 - 13 -14 mm
8 x	1/4": 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm
18 x	1/2": 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 19 - 20 - 21 - 22 - 23 - 24 - 27 - 30 - 32 mm
4 x	1/2": 14 - 15 - 17 - 19 mm
2 x	1/2": 16 - 21 mm
1 x	1/4"
1 x	1/2"
1 x	3/8"Fx1/2"M
1 x	1/4"
1 x	1/2"x 5/16"
1 x	110 mm
2 x	1/4": 50 - 100 mm
2 x	1/2": 125 - 250 mm
1 x	1/4": 150 mm
1 x	1/4"
1 x	1/4"
1 x	1/2"
2 x	1/4": PH1 - PH2
2 x	1/4": PZ1 - PZ2
3 x	1/4": 4 - 5,5 - 7 mm
4 x	1/4": 3 - 4 - 5 - 6 mm
6 x	1/4": TB8 - TB10 - TB15 - TB20 TB25 - TB30
2 x	5/16": PZ3 - PZ4
2 x	5/16": PH3 - PH4
3 x	5/16": 8 - 10 - 12 mm
4 x	5/16": 8 - 10 - 12 - 14 mm
4 x	5/16": TB40 - TB45 - TB50 - TB 55
5 x	0,9 - 1,27 - 1,5 - 2,0 - 2,5 mm

Universal tool kit set

- 6 point
- FlankTraction profile
- Matt finish
- Chrome vanadium
- In durable plastic storage case

1/4" 1/2"

917.0797	97 pcs	Universal tool kit set	9,00 kg
12 x			1/4": 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm
16 x			1/2": 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 19 - 20 - 21 - 22 - 24 - 27 - 30 - 32 mm
1 x			1/4"
1 x			1/2"
1 x			1/2": 125 mm
1 x			1/4": 100 mm
1 x			1/4"
1 x			1/2"
3 x			PH0 - PH1 - PH2
4 x			3 - 4 - 5,5 - 6,5 mm
3 x			1/4": PH1 - PH2 - PH3
3 x			1/4": PZ1 - PZ2 - PZ3
3 x			1/4": 4 - 5,5 - 6,5 mm
4 x			1/4": 3 - 4 - 5 - 6 mm
9 x			1/4": T8 - T9 - T10 - T15 - T20 - T25 - T27 - T30 - T40
12 x			8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 -17 - 18 - 19 mm
1 x			
1 x			300 g
1 x			160 mm
1 x			200 mm
9 x			1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm
9 x			T10 - T15 - T20 - T25 - T27 - T30 - T40 - T45 - T50

CHROME*plus*® Universal tool kit set

- 6 point
- FlankTraction profile
- Mirror polished
- Chrome vanadium
- In durable plastic storage case

1/4" 1/2"

918.0797	97 pcs	CHROME*plus*® Universal tool kit set	9,00 kg
12 x			1/4": 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm
16 x			1/2": 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 19 - 20 - 21 - 22 - 24 - 27 - 30 - 32 mm
1 x			1/4"
1 x			1/2"
1 x			1/2": 125 mm
1 x			1/4": 100 mm
1 x			1/4"
1 x			1/2"
3 x			PH0 - PH1 - PH2
4 x			3 - 4 - 5,5 - 6,5 mm
3 x			1/4": PH1 - PH2 - PH3
3 x			1/4": PZ1 - PZ2 - PZ3
3 x			1/4": 4 - 5,5 - 6,5 mm
4 x			1/4": 3 - 4 - 5 - 6 mm
9 x			1/4": T8 - T9 - T10 - T15 - T20 - T25 - T27 - T30 - T40
12 x			8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 -17 - 18 - 19 mm
1 x			
1 x			300 g
1 x			160 mm
1 x			200 mm
9 x			1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm
9 x			T10 - T15 - T20 - T25 - T27 - T30 - T40 - T45 - T50

CHROME*plus*® Socket set

- Imperial sizes
- 6 point
- FlankTraction profile
- Mirror polished
- Chrome vanadium
- In durable plastic storage case

1/4" 3/8"

918.0699	99 pcs	CHROME*plus*® Socket set	6,30 kg
12 x			1/4": 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 11 - 12 - 13 mm
10 x			1/4": 5/32" - 3/16" - 7/32" - 1/4" - 9/32" 5/16" - 11/32" - 3/8" - 7/16" - 1/2"
16 x			3/8": 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 16 - 17 - 18 - 19 - 20 - 21 - 22 24 mm
5 x			3/8": 10 - 12 - 13 - 17 - 19 mm
11 x			3/8": 1/4" - 5/16" - 3/8" - 7/16" - 1/2" 9/16" - 5/8" - 11/16" - 3/4" - 13/16" 7/8"
5 x			3/8": 3/8" - 7/16" - 1/2" - 9/16" - 5/8"
3 x			3/8": 16 - 18 - 21 mm
3 x			3/8": 5,5 - 6,5 - 8 mm
2 x			3/8": PH1 - PH2
2 x			3/8": PZ1 - PZ2
5 x			3/8": 5 - 6 - 7 - 8 - 10 mm
5 x			3/8": 5/32" - 3/16" - 1/4" - 5/16" - 3/8"
8 x			3/8": T10 - T15 - T20 - T25 - T27 - T30 T40 - T45
5 x			3/8": M4 - M5 - M6 - M8 - M10
1 x			1/4"
1 x			1/4": 100 mm
1 x			1/4"
2 x			3/8": 75 - 150 mm
1 x			3/8"
1 x			3/8": 200 mm

Socket set

- 6 point
- FlankTraction profile
- Matt finish
- Chrome vanadium
- In durable plastic storage case

1/4" 3/8"

951.0699	100 pcs	Socket set	6,20 kg
12 x			1/4": 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 11 - 12 - 13 mm
10 x			1/4": 3/16" - 7/32" - 1/4" - 9/32" - 5/16" - 11/32" - 3/8" - 7/16" - 1/2" - 9/16" - 13/32"
16 x			3/8": 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 24 mm
11 x			3/8": 1/4" - 5/16" - 3/8" - 7/16" - 1/2" - 9/16" - 5/8" - 11/16" - 3/4" - 13/16" - 7/8
5 x			3/8": 10 - 12 - 13 - 17 - 19 mm
5 x			3/8": 3/8" - 7/16" - 1/2" - 9/16" - 5/8"
3 x			3/8": 16 - 18 - 21 mm
3 x			3/8": 5,5 - 6,5 - 8 mm
2 x			3/8": PH1 - PH2
2 x			3/8": PZ1 - PZ2
5 x			3/8": 5 - 6 - 7 - 8 - 10 mm
5 x			3/8": 5/32" - 3/16" - 1/4" - 5/16" - 3/8"
8 x			3/8": T10 - T15 - T20 - T25 - T27 - T30 - T40 - T45
5 x			3/8": M4 - M5 - M6 - M8 - M10
1 x			1/4": 150 mm
1 x			1/4": 100 mm
2 x			3/8": 75 - 150 mm
1 x			3/8"
2 x			1/4" - 3/8"

CHROME*plus*® socket set

- 6 point
- FlankTraction profile
- Mirror polished
- Chrome vanadium
- In durable plastic storage case

1/4" 3/8"

958.0699	100 pcs	CHROME*plus*® socket set	6,20 kg
12 x			1/4": 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 11 - 12 - 13 mm
10 x			1/4": 3/16" - 7/32" - 1/4" - 9/32" - 5/16" - 11/32" - 3/8" - 7/16" - 1/2" - 9/16" - 13/32"
16 x			3/8": 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 24 mm
11 x			3/8": 1/4" - 5/16" - 3/8" - 7/16" - 1/2" - 9/16" - 5/8" - 11/16" - 3/4" - 13/16" - 7/8
5 x			3/8": 10 - 12 - 13 - 17 - 19 mm
5 x			3/8": 3/8" - 7/16" - 1/2" - 9/16" - 5/8"
3 x			3/8": 16 - 18 - 21 mm
3 x			3/8": 5,5 - 6,5 - 8 mm
2 x			3/8": PH1 - PH2
2 x			3/8": PZ1 - PZ2
5 x			3/8": 5 - 6 - 7 - 8 - 10 mm
5 x			3/8": 5/32" - 3/16" - 1/4" - 5/16" - 3/8"
8 x			3/8": T10 - T15 - T20 - T25 - T27 - T30 - T40 - T45
5 x			3/8": M4 - M5 - M6 - M8 - M10
1 x			1/4": 150 mm
1 x			1/4": 100 mm
2 x			3/8": 75 - 150 mm
1 x			3/8"
2 x			1/4" - 3/8"

Socket set

- 6 point
- FlankTraction profile
- Matt finish
- Chrome vanadium
- In durable plastic storage case

1/4" 1/2"

911.0708	108 pcs	Socket set	7,00 kg
13 x			1/4": 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 mm
8 x			1/4": 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm
5 x			1/4": E4 - E5 - E6 - E7 - E8
3 x			1/4": 4 - 5,5 - 6,5 mm
2 x			1/4": PH1 - PH2
2 x			1/4": PZ1 - PZ2
4 x			1/4": 3 - 4 - 5 - 6 mm
7 x			1/4": T8 - T10 - T15- T20 - T25- T27 T30
17 x			1/2": 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 18 - 19 - 20 - 21 - 22 - 24 - 27 30 - 32 mm
5 x			1/2": 14 - 15 - 17 - 19 - 22 mm
8 x			1/2": E10 - E11 - E12 - E14 - E16 E18 - E20 - E24
2 x			1/2": 16 - 21 mm
2 x			1/4": 50 - 100 mm
3 x			5/16": 8 - 10 - 12 mm
2 x			5/16": PH3 - PH4
2 x			5/16": PZ3 - PZ4
5 x			5/16": 7 - 8 - 10 - 12 - 14 mm
5 x			5/16": T40 - T45 - T50 - T55 - T60
1 x			1/4"
1 x			1/4"
1 x			1/4"
1 x			1/4": 145 mm
3 x			1,5 - 2 - 2,5 mm
1 x			1/2": 125 - 250 mm
1 x			1/2"
1 x			1/2"
1 x			1/2" x 5/16"
1 x			1/2": 250 mm

Socket set

- 6 point
- FlankTraction profile
- Matt finish
- Chrome vanadium
- In durable plastic storage case

1/4" 1/2"

			kg
951.0711	110 pcs	Socket set	7,60
13 x		1/4": 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 mm	
8 x		1/4": 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm	
5 x		1/4": E4 - E5 - E6 - E7 - E8	
18 x		1/2": 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 24 - 27 - 30 - 32 - 34 mm	
5 x		1/2": 14 - 15 - 17 - 19 - 22 mm	
8 x		1/2": E10 - E11 - E12 - E14 - E16 - E18 - E20 - E24	
3 x		1/2": 16 - 18 - 21 mm	
2 x		1/4": 4 - 5,5 mm	
2 x		1/4": PH1 - PH2	
2 x		1/4": PZ1 - PZ2	
4 x		1/4": 3 - 4 - 5 - 6 mm	
7 x		1/4": T8 - T10 - T15 - T20 - T25 - T27 - T30	
4 x		1/4": M4 - M5 - M6 - M8	
3 x		5/16": 8 - 10 - 12 mm	
2 x		5/16": PH3 - PH4	
2 x		5/16": PZ3 - PZ4	
5 x		5/16": 7 - 8 - 10 - 12 - 14 mm	
5 x		5/16": T40 - T45 - T50 - T55 - T60	
1 x		1/4"	
1 x		1/2" x 5/16"	
1 x		1/4": 100 mm	
2 x		1/2": 125 - 250 mm	
1 x		1/4"	
1 x		3/8"F x 1/2"M	
2 x		1/4" - 1/2"	
1 x		1/4": 150 mm	
2 x		1/4" - 1/2"	

CHROME*plus*® socket set

- 6 point
- FlankTraction profile
- Mirror polished
- Chrome vanadium
- In durable plastic storage case

1/4" 1/2"

			kg
958.0711	110 pcs	CHROME*plus*® socket set	7,80
13 x		1/4": 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 mm	
8 x		1/4": 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm	
5 x		1/4": E4 - E5 - E6 - E7 - E8	
18 x		1/2": 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 24 - 27 - 30 - 32 - 34 mm	
5 x		1/2": 14 - 15 - 17 - 19 - 22 mm	
8 x		1/2": E10 - E11 - E12 - E14 - E16 - E18 - E20 - E24	
3 x		1/2": 16 - 18 - 21 mm	
2 x		1/4": 4 - 5,5 mm	
2 x		1/4": PH1 - PH2	
2 x		1/4": PZ1 - PZ2	
4 x		1/4": 3 - 4 - 5 - 6 mm	
7 x		1/4": T8 - T10 - T15 - T20 - T25 - T27 - T30	
4 x		1/4": M4 - M5 - M6 - M8	
3 x		5/16": 8 - 10 - 12 mm	
2 x		5/16": PH3 - PH4	
2 x		5/16": PZ3 - PZ4	
5 x		5/16": 7 - 8 - 10 - 12 - 14 mm	
5 x		5/16": T40 - T45 - T50 - T55 - T60	
1 x		1/4"	
1 x		1/2" x 5/16"	
1 x		1/4": 100 mm	
2 x		1/2": 125 - 250 mm	
1 x		1/4"	
1 x		3/8"F x 1/2"M	
2 x		1/4" - 1/2"	
1 x		1/4": 150 mm	
2 x		1/4" - 1/2"	

CHROME*plus*® Socket set

- 6 point
- FlankTraction profile
- Mirror polished
- Chrome vanadium
- In durable plastic storage case

1/4" 3/8" 1/2"

			kg
918.0724	124 pcs	CHROME*plus*® Socket set	9,50
10 x		1/4": 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 13 mm	
6 x		1/4": 5 - 6 - 7 - 8 - 9 - 10 mm	
11 x		3/8": 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 17 - 18 - 19 mm	
6 x		3/8": 10 - 11 - 12 - 13 - 14 - 15 mm	
8 x		3/8": E8 - E10 - E11 - E12 - E14 - E16 E18 - E20	
8 x		1/2": 20 - 21 - 22 - 24 - 27 - 30 - 32 34 mm	
6 x		1/2": 10 - 12 - 13 - 14 - 17 - 19 mm	
2 x		1/2": E22 - E24	
2 x		1/2": 16 - 21 mm	
1 x		1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm	
12 x		8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 17 - 18 - 19 mm	
2 x		3/8": 4 - 5,5 mm	
3 x		3/8": PH1 - PH2 - PH3	
3 x		3/8": PZ1 - PZ2 - PZ3	
5 x		3/8": 3 - 4 - 5 - 6 - 8 mm	
5 x		3/8": T20 - T30 - T40 - T45 - T50	
4 x		3/8": M4 - M5 - M6 - M8	
7 x		1/4": T10 - T15 - T20 - T25 - T27 T30 -T40	
1 x		1/4"	
1 x		1/4"	
1 x		1/4": 100 mm	
2 x		3/8": 75 - 150 mm	
2 x		1/2": 125 - 250 mm	
3 x		1/4" - 3/8" - 1/2"	
2 x		1/2": F1/2" x M 3/8"	
3 x		1/4" - 3/8" - 1/2"	

Socket set

- 6 point
- FlankTraction profile
- Matt finish
- Chrome vanadium
- In durable plastic storage case

1/4" 1/2"

			kg
951.0751	151 pcs	Socket set	8,50

13 x	1/4": 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 11 - 12 - 13 - 14 mm
18 x	1/2": 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 19 - 20 - 21 - 22 - 24 - 27 - 30 - 32 - 34 mm
6 x	1/4": 8 - 9 - 10 - 12 - 13 - 14 mm
4 x	1/2": 17 - 18 - 19 - 22 mm
2 x	1/2": 16 - 21 mm
5 x	1/4": E4 - E5 - E6 - E7 - E8
8 x	1/2"": E10 - E11 - E12 - E14 - E16 - E18 - E20 - E24
3 x	1/4"": 4 - 5,5 - 6,5 mm
2 x	1/4": PH1 - PH2
2 x	1/4": PZ1 - PZ2
4 x	3/8": 3 - 4 - 5 - 6 mm
8 x	1/4": T8 - T9 - T10 - T15 - T20 - T25 - T27 - T30
5 x	1/4": M4 - M5 - M6 - M7 - M8
8 x	1/4": TB7 - TB8 - TB9 - TB10 - TB15 - TB20 - TB25 - TB27
8 x	1/4": TS10 - TS15 - TS20 - TS25 - TS27 - TS30 - TS40 - TS45
5 x	1/4": M5 - M6 - M7 - M8 - M9
3 x	5/16": 8 - 10 - 12 mm
5 x	5/16": 7 - 8 - 10 - 12 - 14 mm
2 x	5/16": PH3 - PH4
2 x	5/16": PZ3 - PZ4
6 x	5/16": T40 - T45 - T50 - T55 - T60 - T70
6 x	5/16": TB40 - TB45 - TB50 - TB55 - TB60 - TB70
2 x	5/16": M10 - M12
2 x	5/16": M10 - M12
1 x	1/4": 110 mm
1 x	1/4": 150 mm
2 x	1/4": 50 - 100 mm
2 x	1/2": 125 - 250 mm
1 x	3/8" x 1/2"
2 x	1/4" - 1/2"
2 x	1/4" - 1/2"
2 x	1/4" - 1/2"
9 x	8 - 9 - 10 - 11 - 12 - 13 - 14 - 17 - 19 mm

CHROME*plus*® socket set

- 6 point
- FlankTraction profile
- Mirror polished
- Chrome vanadium
- In durable plastic storage case

1/4" 1/2"

			kg
958.0751	151 pcs	CHROME*plus*® socket set	8,50

13 x	1/4": 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 11 - 12 - 13 - 14 mm
18 x	1/2": 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 19 - 20 - 21 - 22 - 24 - 27 - 30 - 32 - 34 mm
6 x	1/4": 8 - 9 - 10 - 12 - 13 - 14 mm
4 x	1/2": 17 - 18 - 19 - 22 mm
2 x	1/2": 16 - 21 mm
5 x	1/4": E4 - E5 - E6 - E7 - E8
8 x	1/2"": E10 - E11 - E12 - E14 - E16 - E18 - E20 - E24
3 x	1/4"": 4 - 5,5 - 6,5 mm
2 x	1/4": PH1 - PH2
2 x	1/4": PZ1 - PZ2
4 x	3/8": 3 - 4 - 5 - 6 mm
8 x	1/4": T8 - T9 - T10 - T15 - T20 - T25 - T27 - T30
5 x	1/4": M4 - M5 - M6 - M7 - M8
8 x	1/4": TB7 - TB8 - TB9 - TB10 - TB15 - TB20 - TB25 - TB27
8 x	1/4": TS10 - TS15 - TS20 - TS25 - TS27 - TS30 - TS40 - TS45
5 x	1/4": M5 - M6 - M7 - M8 - M9
3 x	5/16": 8 - 10 - 12 mm
5 x	5/16": 7 - 8 - 10 - 12 - 14 mm
2 x	5/16": PH3 - PH4
2 x	5/16": PZ3 - PZ4
6 x	5/16": T40 - T45 - T50 - T55 - T60 - T70
6 x	5/16": TB40 - TB45 - TB50 - TB55 - TB60 - TB70
2 x	5/16": M10 - M12
2 x	5/16": M10 - M12
1 x	1/4": 110 mm
1 x	1/4": 150 mm
2 x	1/4": 50 - 100 mm
2 x	1/2": 125 - 250 mm
1 x	3/8" x 1/2"
2 x	1/4" - 1/2"
2 x	1/4" - 1/2"
2 x	1/4" - 1/2"
9 x	8 - 9 - 10 - 11 - 12 - 13 - 14 - 17 - 19 mm

Socket set

- 6 point
- FlankTraction profile
- Matt finish
- Chrome vanadium
- In durable plastic storage case

1/4" 3/8" 1/2"

			kg
917.0779	179 pcs	Socket set	9,00

13 x	1/4": 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 11 - 12 - 13 - 14 mm
7 x	1/4": 4 - 5 - 6 - 7 - 8 - 9 - 10 mm
10 x	3/8": 10 - 11 - 12 - 13 - 14 - 15 - 16 17 - 18 - 19 mm
6 x	3/8": 10 - 11 - 12 - 13 - 14 - 15 mm
17 x	1/2": 10 - 11 - 12 - 13 - 14 - 15 - 16 17 - 18 - 19 - 20 - 21 - 22 - 24 - 27 30 - 32 mm
5 x	1/2": 16 - 17 - 18 - 19 - 22 mm
1 x	3/8": 18 mm
2 x	1/2": 16 - 21 mm
4 x	1/4": 4 - 5,5 - 6,5 - 7 mm
3 x	1/4": PH0 - PH1 - PH2
3 x	1/4": PZ0 - PZ1 - PZ2
4 x	1/4": 3 - 4 - 5 - 6 mm
8 x	1/4": T8 - T9 - T10 - T15 - T20 - T25 - T27 T30
8 x	1/4": TB8 - TB9 - TB10 - TB15 - TB20 TB25 TB27 - TB30
5 x	1/4": E4 - E5 - E6 - E7 - E8
6 x	3/8": E10 - E11 - E12 - E14 - E16 - E18
2 x	1/2": E20 - E24
11 x	1/4": T5 - T6 - T7 - T8 - T9 - T10 - T15 T20 - T25 - T27 - T30
1 x	1/4": TB7
3 x	1/4": M5 - M6 - M8

5 x	1/4“: M5 - M6 - M7 - M8 - M9
8 x	1/4“: TS10 - TS15 - TS20 - TS25 TS27 - TS30 - TS40 - TS45
3 x	5/16“: 8 - 10 - 12 mm
5 x	5/16“: 7 - 8 - 10 - 12 - 14 mm
2 x	5/16“: PH3 - PH4
2 x	5/16“: PZ3 - PZ4
6 x	5/16“: T40 - T45 - T50 - T55 - T60 - T70
6 x	5/16“: TB40 - TB45 - TB50 - TB55 TB60 - TB70
7 x	1,3 - 1,5 - 2 - 2,5 - 3 - 4 - 5 mm
1 x	1/4“: 150 mm
1 x	1/4“: 110 mm
2 x	1/4“: 50 - 100 mm
1 x	3/8“: 150 mm
2 x	1/2“: 125 - 250 mm
3 x	1/4“ - 3/8“ - 1/2
1 x	1/4“ x 1/4“
1 x	3/8“ x 5/16“
1 x	1/2“ x 5/16“
1 x	3/8“Fx1/2“M
3 x	1/4“ - 3/8“ - 1/2

Socket set

- 6 point
- FlankTraction profile
- Matt finish
- Chrome vanadium
- In durable plastic storage case

1/4“ 3/8“ 1/2“

			kg
917.0795	195 pcs	Socket set	10,00

13 x	1/4“: 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 -14 mm
10 x	3/8“: 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm
17 x	1/2“: 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 23 - 24 - 27 - 30 - 32 mm
7 x	1/4“: 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm
6 x	3/8“: 10 - 11 - 12 - 13 - 14 - 15 mm
5 x	1/2“: 16 - 17 - 18 - 19 - 22 mm
5 x	1/4“: E4 - E5 - E6 - E7 - E8
6 x	3/8“: E10 - E11 - E12 - E14 - E16 - E18
2 x	1/2“: E20 - E24
1 x	3/8“: 18 mm
2 x	1/2“: 16 - 21 mm

3 x	1/4“ - 3/8“ - 1/2“
1 x	1/4“ x 1/4“
2 x	3/8“ x 5/16“ - 1/2“ x 5/16“
1 x	3/8“F - 1/2“M
2 x	1/4“: 50 - 100 mm
1 x	3/8“: 150 mm
2 x	1/2“: 125 - 250 mm
1 x	150 mm
3 x	1/4“ - 3/8“ - 1/2“
1 x	110 mm
3 x	1/4“: PH0 - PH1 - PH2
3 x	1/4“: PZ0 - PZ1 - PZ2
8 x	1/4“: T8 - T9 - T10 - T15 - T20 - T25 - T27 - T30
8 x	1/4“: TB8 - TB9 - TB10 - TB15 - TB20 - TB25 - TB27 - TB30
4 x	1/4“: 4 - 5,5 - 6,5 - 7 mm
4 x	1/4“: 3 - 4 - 5 - 6 mm
7 x	1 -1,5 - 2 - 2,5 - 3 - 4 - 5 mm
3 x	1/4“: PH1 - PH2 - PH3
2 x	1/4“: PZ1 - PZ2
11 x	1/4“: T5 - T6 - T7 - T8 - T9 - T10 - T15 - T20 - T25 - T27 - T30
8 x	1/4“: TB7 - TB10 - TB15 - TB20 - TB25 - TB27 - TB30 - TB40
3 x	1/4“: 4 - 5 - 6 mm
3 x	1/4“: M5 - M6 - M8
8 x	1/4“: TS10 - TS15 - TS20 - TS25 - TS27 - TS30 - TS40 - TS45
5 x	1/4“: M5 - M6 - M7 - M8 - M9
2 x	5/16“: PH3 - PH4
2 x	5/16“: PZ3 - PZ4
6 x	5/16“: T40 - T45 - T50 - T55 - T60 - T70
6 x	5/16“: TB40 - TB45 - TB50 - TB55 - TB60 - TB70
5 x	5/16“: 7 - 8 - 10 - 12 - 14 mm
3 x	5/16“: 8 - 10 - 12 mm

CHROME*plus*® Socket set

- 6 point
- FlankTraction profile
- Mirror polished
- Chrome vanadium
- In durable plastic storage case

1/4“ 3/8“ 1/2“

			kg
918.0795	195 pcs	CHROME*plus*® Socket set	10,00

13 x	1/4“: 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 11 - 12 - 13 -14 mm
10 x	3/8“: 10 - 11 - 12 - 13 - 14 - 15 - 16 17 - 18 - 19 mm
17 x	1/2“: 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 19 - 20 - 21 - 22 - 23 - 24 - 27 - 30 - 32 mm
7 x	1/4“: 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm
6 x	3/8“: 10 - 11 - 12 - 13 - 14 - 15 mm
5 x	1/2“: 16 - 17 - 18 - 19 - 22 mm
5 x	1/4“: E4 - E5 - E6 - E7 - E8
6 x	3/8“: E10 - E11 - E12 - E14 - E16 - E18
2 x	1/2“: E20 - E24
1 x	3/8“: 18 mm
2 x	1/2“: 16 - 21 mm
3 x	1/4“ - 3/8“ - 1/2“
1 x	1/4“ x 1/4“
1 x	3/8“ x 5/16“
1 x	1/2“ x 5/16“
1 x	3/8“F - 1/2“M
2 x	1/4“: 50 - 100 mm
1 x	3/8“: 150 mm
2 x	1/2“: 125 - 250 mm
1 x	150 mm
3 x	1/4“ - 3/8“ - 1/2“
1 x	110 mm
3 x	1/4“: PH0 - PH1 - PH2
3 x	1/4“: PZ0 - PZ1 - PZ2
8 x	1/4“: T8 - T9 - T10 - T15 - T20 - T25 T27 - T30
8 x	1/4“: TB8 - TB9 - TB10 - TB15 - TB20 TB25 - TB27 - TB30
4 x	1/4“: 4 - 5,5 - 6,5 - 7 mm
4 x	1/4“: 3 - 4 - 5 - 6 mm
7 x	1 -1,5 - 2 - 2,5 - 3 - 4 - 5 mm
3 x	1/4“: PH1 - PH2 - PH3
2 x	1/4“: PZ1 - PZ2
11 x	1/4“: T5 - T6 - T7 - T8 - T9 - T10 - T15 T20 - T25 - T27 - T30
8 x	1/4“: TB7 - TB10 - TB15 - TB20 TB25 - TB27 - TB30 - TB40
3 x	1/4“: 4 - 5 - 6 mm
3 x	1/4“: M5 - M6 - M8
8 x	1/4“: TS10 - TS15 - TS20 - TS25 TS27 - TS30 - TS40 - TS45
5 x	1/4“: M5 - M6 - M7 - M8 - M9
2 x	5/16“: PH3 - PH4
2 x	5/16“: PZ3 - PZ4
6 x	5/16“: T40 - T45 - T50 - T55 - T60 - T70
6 x	5/16“: TB40 - TB45 - TB50 - TB55 TB60 - TB70
5 x	5/16“: 7 - 8 - 10 - 12 - 14 mm
3 x	5/16“: 8 - 10 - 12 mm

Socket set

- 6 point
- FlankTraction profile
- Matt finish
- Chrome vanadium
- In durable plastic storage case

1/4" 3/8" 1/2"

			kg
917.0216	216 pcs	Socket set	11,60
13 x		1/4": 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 11 - 12 - 13 -14 mm	
10 x		3/8": 10 - 11 - 12 - 13 - 14 - 15 - 16 17 - 18 - 19 mm	
16 x		1/2": 10 - 11 - 12 - 13 - 14 - 15 - 17 - 18 19 - 20 - 21 - 22 - 24 - 27 - 30 - 32 mm	
10 x		1/4": 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 14 - 15 mm	
6 x		3/8": 10 - 11 - 12 - 13 - 14 - 15 mm	
3 x		1/2": 17 - 19 - 22 mm	
5 x		1/4": E4 - E5 - E6 - E7 - E8	
6 x		3/8": E10 - E11 - E12 - E14 - E16 - E18	
8 x		1/2": E10 - E11 - E12 - E14 - E16 E18 - E20 - E24	
1 x		3/8": 18 mm	
2 x		1/2": 16 - 21 mm	
3 x		1/4" - 3/8" - 1/2"	
1 x		1/4" x 1/4"	
2 x		3/8" x 5/16" - 1/2" x 5/16"	
2 x		1/4": 50 - 100 mm	
1 x		3/8": 150 mm	
2 x		1/2": 125 - 250 mm	
1 x		110 mm	
3 x		1/4" - 3/8" - 1/2"	
1 x		1/4": 205 mm	
1 x		150 mm	
2 x		1/2": T55 - T60	
2 x		1/4": PH1 - PH2	
2 x		1/4": PZ1 - PZ2	
6 x		1/4": T8 - T10 - T15 - T20 - T25 - T30	
6 x		1/4": TB8 - TB10 - TB15 - TB20 TB25 - TB30	
3 x		1/4": 4 - 5,5 - 6,5 mm	
4 x		1/4": 3 - 4 - 5 - 6 mm	
1 x		5/16": TS50	
7 x		1,3 -1,5 - 2 - 2,5 - 3 - 4 - 5 mm	
1 x		1/4": 50 mm	
4 x		1/4": PH0 - PH1 - PH2 - PH3	
4 x		1/4": PZ0 - PZ1 - PZ2 - PZ3	
8 x		1/4": T8 - T10 - T15 - T20 - T25 - T27 T30 - T40	
8 x		1/4": TB8 - TB10 - TB15 - TB20 TB25 - TB27 - TB30 - TB40	
3 x		1/4": 4 - 5 - 6 mm	
3 x		1/4": M5 - M6 - M8	
3 x		1/4": 4 - 5,5 - 7 mm	
3 x		1/4": M5 - M6 - M8	
2 x		1/4": 6 - 8 mm	
3 x		1/4": 4 - 6 - 8 mm	
3 x		1/4": 1 - 2 - 3 mm	
3 x		5/16": PH2 - PH3 - PH4	
3 x		5/16": PZ2 - PZ3 - PZ4	
6 x		5/16": T30 - T40 - T45 - T50 - T55 - T60	
6 x		5/16": TB30 - TB40 - TB45 - TB50 - TB55 - TB60	
4 x		5/16": 7 - 8 - 10 - 12 mm	
4 x		5/16": M5 - M6 - M8 - M10	
3 x		5/16": 8 - 10 - 12 mm	
12 x		8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm	

CHROME*plus*® Socket set

- 6 point
- FlankTraction profile
- Mirror polished
- Chrome vanadium
- In durable plastic storage case

1/4" 3/8" 1/2"

			kg
918.0216	216 pcs	CHROME*plus*® Socket set	11,60
13 x		1/4": 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 11 - 12 - 13 -14 mm	
10 x		3/8": 10 - 11 - 12 - 13 - 14 - 15 - 16 17 - 18 - 19 mm	
14 x		1/2": 13 - 14 - 15 - 16 - 17 - 18 - 19 20 - 21 - 22 - 24 - 27 - 30 - 32 mm	
7 x		1/4": 4 - 5 - 6 - 7 - 8 - 9 - 10 mm	
6 x		3/8": 10 - 11 - 12 - 13 - 14 - 15 mm	
5 x		1/2": 16 - 17 - 18 - 19 - 22 mm	
5 x		1/4": E4 - E5 - E6 - E7 - E8	
6 x		3/8": E10 - E11 - E12 - E14 - E16 - E18	
3 x		1/2": E20 - E22 - E24	
1 x		3/8": 18 mm	
2 x		1/2": 16 - 21 mm	
3 x		1/4" - 3/8" - 1/2"	
1 x		1/4" x 1/4"	
2 x		3/8" x 5/16" - 1/2" x 5/16"	
1 x		3/8"F - 1/2"M	
2 x		1/4": 50 - 100 mm	
1 x		3/8": 150 mm	
2 x		1/2": 125 - 250 mm	
1 x		110 mm	
3 x		1/4" - 3/8" - 1/2"	
1 x		1/4": 205 mm	
1 x		150 mm	
2 x		1/2": T55 - T60	
3 x		1/4": PH0 - PH1 - PH2	
3 x		1/4": PZ0 - PZ1 - PZ2	
8 x		1/4": T8 - T9 - T10 - T15 - T20 - T25 T27 - T30	
8 x		1/4": TB8 - TB9 - TB10 - TB15 - TB20 TB25 - TB27 - TB30	
4 x		1/4": 4 - 5,5 - 6,5 - 7 mm	
4 x		1/4": 3 - 4 - 5 - 6 mm	
1 x		5/16": TS50	
7 x		1,3 -1,5 - 2 - 2,5 - 3 - 4 - 5 mm	
1 x		1/4": 50 mm	
4 x		1/4": PH0 - PH1 - PH2 - PH3	
4 x		1/4": PZ0 - PZ1 - PZ2 - PZ3	
8 x		1/4": T8 - T10 - T15 - T20 - T25 - T27 T30 - T40	
8 x		1/4": TB8 - TB10 - TB15 - TB20 TB25 - TB27 - TB30 - TB40	
3 x		1/4": 4 - 5 - 6 mm	
3 x		1/4": M5 - M6 - M8	
3 x		1/4": 4 - 5,5 - 7 mm	
3 x		1/4": M5 - M6 - M8	
2 x		1/4": 6 - 8 mm	
3 x		1/4": 4 - 6 - 8 mm	
3 x		1/4": 1 - 2 - 3 mm	
3 x		5/16": PH2 - PH3 - PH4	
3 x		5/16": PZ2 - PZ3 - PZ4	
6 x		5/16": T30 - T40 - T45 - T50 - T55 - T60	
6 x		5/16": TB30 - TB40 - TB45 - TB50 TB55 - TB60	
4 x		5/16": 7 - 8 - 10 - 12 mm	
4 x		5/16": M5 - M6 - M8 - M10	
3 x		5/16": 8 - 10 - 12 mm	
12 x		8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 17 - 18 - 19 mm	

1/4“ TOOL CASES & TROLLEYS

Socket set

- 6 point
- FlankTraction profile
- Matt finish
- Chrome vanadium
- In durable steel storage case

1/4“ 1/2“

			kg
917.4052	52 pcs	Socket set	6,25
11 x		1/4“: 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 11 - 13 mm	
13 x		1/2“: 10 - 11 - 12 - 13 - 14 - 15 - 17 19 - 21 - 24 - 27 - 30 - 32 mm	
3 x		1/4“: 4 - 5,5 - 7 mm	
3 x		1/4“: PH1 - PH3 - PH4	
4 x		1/4“: 3 - 4 - 5 - 6 mm	
2 x		1/2“: 8 - 10 mm	
1 x		1/2“: PH3	
5 x		1/2“: 7 - 8 - 10 - 12 - 14 mm	
2 x		1/4“: 50 - 100 mm	
2 x		1/2“: 125 - 250 mm	
1 x		1/4“	
1 x		1/4“	
1 x		1/2“	
1 x		1/4“	
1 x		1/4“: 145 mm	
1 x		1/2“: 250 mm	

Socket set

- 6 point
- FlankTraction profile
- Matt finish
- Chrome vanadium
- In a classy aluminium case

1/4“ 1/2“

			kg
911.0670	70 pcs	Socket set	7,30
13 x		1/4“: 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 11 - 12 - 13 - 14 mm	
3 x		1/4“: 8 - 10 - 13 mm	
12 x		1/2“: 15 - 16 - 17 - 18 - 19 - 20 - 21 22 - 24 - 27 - 30 - 32 mm	
2 x		1/2“: 17 - 19 mm	
3 x		1/4“: 4 - 5,5 - 7 mm	
2 x		1/4“: PH1 - PH2	
2 x		1/4“: PZ1 - PZ2	
6 x		1/4“: 3 - 4 - 5 - 6 - 7 - 8 mm	
6 x		1/4“: T10 - T15 - T20 - T25 - T30 - T40	
3 x		1,5 - 2 - 2,5 mm	
2 x		1/4“: 50 - 100 mm	
1 x		1/4“	
1 x		1/4“	
1 x		1/4“	
1 x		1/4“: 145 mm	
2 x		1/2“: 125 - 250 mm	
1 x		1/2“ x 3/8“	
1 x		1/2“	
1 x		1/2“: 250 mm	
7 x		8 - 10 - 12 - 13 - 14 - 17 - 19 mm	

Tool set for plumbing and heating mechanics

- Ideal set of compilation for plumbing, heating and air conditioning
- Can be used by hand or with an electric screwdriver
- Ideally suited for fittings in trade and industry
- 6 point
- FlankTraction profile
- Matt finish
- Chrome vanadium
- In a classy aluminium case

1/4“ 1/2“

			kg
911.0695	95 pcs	Tool set for plumbing and heating mechanics	13,86
13 x		1/2“: 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 21 - 22 - 24 mm	
2 x		1/4“: 50 - 100 mm	
1 x		1/2“: 125 mm	
1 x		1/2“: 270 mm	
1 x		1/2“	
10 x		8x9 - 10x11 - 12x13 - 14x15 - 16x17 - 18x19 - 20x22 - 21x23 - 24x27 - 30x32 mm	
9 x		1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm	
1 x			
1 x		200 mm	
1 x		250 mm	
1 x		250x25 mm	
1 x		38 mm	
3 x		HB	
1 x		1/4“: 911.2060	
1 x		1/4“: 205 mm	
1 x		1/4“: 911.2060	
1 x		1/4“: 205 mm	
1 x		150 - 250 V	
4 x		3 - 4 - 5,5 - 6,5 mm	
2 x		PH1 - PH2	
1 x		17 x 19 mm	
4 x		1/2“: 3/8“ - 1/2“ - 3/4“ - 1“	
1 x		250 mm	
1 x		Ø 10 - 32 mm	
1 x		160 mm	
1 x		3 - 28 mm	
1 x		3 - 42 mm	
1 x		240 mm	
1 x		1“: 45° - 320 mm	

CHROME*plus*® Socket set

- 6 point
- FlankTraction profile
- Mirror polished
- Chrome vanadium
- In a classy aluminium case

1/4" 1/2"

			kg
918.0702	102 pcs	CHROME*plus*® Socket set	9,70
13 x		1/4": 4 - 4,5 - 5,5 - 6 - 7 - 8 - 9 - 10 11 - 12 - 13 - 14 mm	
3 x		1/4": 8 - 10 - 13 mm	
13 x		1/2": 13 - 15 - 17 - 18 - 19 - 20 - 21 22 - 24 - 27 - 30 - 32 - 34 mm	
5 x		1/2": 14 - 15 - 17 - 19 - 22 mm	
3 x		1/4": PH1 - PH2 - PH3	
2 x		1/4": PZ1 - PZ2	
4 x		1/4": 3 - 4 - 5 - 6 mm	
7 x		1/4": T10 - T15 - T20 - T25 - T27 T30 - T40	
3 x		1/4": M4 - M5 - M6	
3 x		1/4": E6 - E7 - E8	
6 x		1/2": E10 - E12 - E14 - E16 - E18 E20	
2 x		1/2": 16 - 21 mm	
1 x		1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm	
1 x		5/16": PZ3	
2 x		5/16": 8 - 10 mm	
4 x		5/16": TB45 - TB50 - TB55 - TB60	
3 x		5/16": M8 - M10 - M12	
1 x		1/4"	
1 x		1/4"	
2 x		1/4": 50 - 100 mm	
2 x		1/2": 125 - 250 mm	
1 x		F3/8" x M1/2"	
1 x		1/2"	
1 x		1/2" x 5/16"	
2 x		1/4" - 1/2"	
7 x		7 - 8 - 10 - 12 - 13 - 17 - 19 mm	

Electrians tool set

- Ideal set for electrians
- Can be used by hand or with an electric screwdriver
- Ideally suited for fittings in trade and industry
- 6 point
- FlankTraction profile
- Matt finish
- Chrome vanadium
- In a classy aluminium case

1/4" 1/2"

			kg
911.0628	128 pcs	Electrians tool set	10,88
12 x		1/4": 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm	
12 x		1/2": 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 21 - 22 mm	
2 x		1/4": 50 - 100 mm	
1 x		1/2": 125 mm	
2 x		1/4" - 1/2"	
1 x		1/4": 110 mm	
1 x		28 mm	
1 x			
1 x			
1 x		28 mm	
1 x		145 mm	
1 x		300 g	
3 x		HB	
1 x		250 mm	
1 x		250x25 mm	
1 x		38 mm	
1 x		2 m	
1 x		300 mm	
1 x		1/4": 911.2060	
1 x		1/4": 205 mm	
1 x		1/4": 145 mm	
1 x		1/2": 250 mm	
9 x		1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm	
1 x		5 m	
18 x		100 mm	
10 x		8 - 10 - 11 - 12 - 13 - 14 - 15 - 17 - 19 - 22 mm	
1 x		150 - 250 V	
4 x		2,5 - 4 - 5,5 - 6,5 mm	
2 x		PH1 - PH2	
1 x		160 mm	
1 x		160 mm	
1 x		170 mm	
1 x		165 mm	

Universal tool kit

- 6 point
- FlankTraction profile
- Matt finish
- Chrome vanadium
- In a classy aluminium case

1/4" 1/2"

			kg
911.0727	127 pcs	Universal tool kit	12,40

13 x	1/4": 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 mm
13 x	1/2": 10 - 13 - 14 - 16 - 17 - 18 - 19 - 20 - 22 - 24 - 27 - 30 - 32 mm
2 x	1/2": 16 - 21 mm
1 x	1/4": 911.2060
2 x	1/4": 50 - 100 mm
1 x	1/4"
1 x	1/4": 110 mm
1 x	1/4": 145 mm
1 x	1/4"
2 x	1/2": 125 - 250 mm
1 x	F3/8" x M1/2"
1 x	1/2"
1 x	1/2": 250 mm
1 x	2 - 2,5 - 3 - 4 - 5 - 6 - 8 -10 mm
1 x	T10 - T15 - T20 - T25 - T30 - T40 - T45 - T50
2 x	5,5 - 6,5 mm
2 x	PH1 - PH2
1 x	1/4": 150 mm
8 x	8 - 9 - 10 - 11 - 13 - 14 - 17 - 19 mm
1 x	160 mm
1 x	180 mm
1 x	200 mm
1 x	240 mm
1 x	200 mm
1 x	145 mm
1 x	300 g
1 x	150 - 250 V
1 x	
1 x	250 mm
1 x	200 mm
1 x	150 mm
3 x	907.2131
1 x	
1 x	
1 x	0 - 150 mm
1 x	300 mm
1 x	5 m x 19 mm
1 x	
1 x	

Universal tool kit

- 6 point
- FlankTraction profile
- Removeable plastic storage trays
- Matt finish
- Chrome vanadium
- Telescopic carrying handle
- In a classy aluminium trolley

1/4" 1/2"

			kg
911.0735	135 pcs	Universal tool kit	17,60

9 x	1/4": 4 - 5 - 6 - 7 - 8 - 9 - 11 - 12 - 13 mm
4 x	1/4": 8 - 9 - 10 - 13 mm
13 x	1/2": 10 - 11 - 12 - 13 - 14 - 15 - 16 17 - 18 - 19 - 21 - 22 - 24 mm
1 x	1/4": 911.2060
1 x	2 - 2,5 - 3 - 4 - 5 - 6 - 8 -10 mm
1 x	T10 - T15 - T20 - T25 - T30 - T40 - T45 - T50
1 x	1/4": 100 mm
1 x	1/4": 150 mm
1 x	1/4"
1 x	1/4"
1 x	1/4"
1 x	1/4": 145 mm
1 x	1/2": 125 mm
1 x	1/2"
1 x	1/2": 250 mm
1 x	1/2": 250 mm
2 x	4 - 8 mm
2 x	PH1 - PH2
1 x	PH2
2 x	PZ1 - PZ2
1 x	PZ2
11 x	8 - 9 - 10 - 11 - 12 - 13 - 14 - 16 - 17 18 - 19 mm
1 x	150 - 250 V
1 x	3,5 mm
2 x	PH1 - PH2
1 x	max. 2 kg
1 x	160 mm
1 x	160 mm
1 x	220 mm
1 x	240 mm
1 x	250 mm
1 x	10"
1 x	
1 x	160 mm
1 x	140 mm
1 x	165 mm
1 x	3 - 42 mm
1 x	300 mm
1 x	200 mm
1 x	200 mm
1 x	8 mm
1 x	190 mm
1 x	300 g
1 x	5 m x 19 mm
1 x	400 mm

Universal tool kit set

- 6 point
- FlankTraction profile
- Matt finish
- Chrome vanadium
- In a classy aluminium case

1/4" 1/2"

			kg
911.0649	149 pcs	Universal tool kit set	12,68

12 x	1/4": 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm
14 x	1/2": 10 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 21 - 22 - 24 - 27 - 30 - 32 mm
2 x	1/4": 50 - 100 mm
2 x	1/2": 125 - 250 mm
2 x	1/4" - 1/2"
1 x	1/4": 110 mm
1 x	1/4" x 1/4"
1 x	3/8"F x 1/2"M
1 x	1/2" x 5/16"
3 x	5/16": 10 - 12 - 14 mm
2 x	5/16": PH3 - PH4
2 x	5/16": 8 - 10 mm
4 x	5/16": T40 - T45 - T50 - T55
1 x	
1 x	
1 x	300 g
1 x	
1 x	145 mm
1 x	200 mm
1 x	38 mm
1 x	270 mm
1 x	1/4": 911.2060
1 x	1/4": 205 mm
1 x	1/4": 145 mm
1 x	1/2": 250 mm
9 x	1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm
1 x	0 - 150 mm
1 x	5 m
20 x	100 mm
1 x	130 - 630 mm
1 x	
10 x	8 - 10 - 11 - 12 - 13 - 14 - 15 - 17 - 19 - 22 mm
1 x	150 - 250 V
3 x	3 - 5,5 - 6,5 mm
2 x	PH1 - PH2
1 x	PZ2
1 x	160 mm
1 x	180 mm
1 x	160 mm
1 x	240 mm
1 x	250 mm

CHROME*plus*® Tool kit

- 6 point
- FlankTraction profile
- Removeable plastic storage trays
- Mirror polished
- Chrome vanadium
- Telescopic carrying handle
- In a classy aluminium trolley

1/4" 1/2"

			kg
918.0690	90 pcs	CHROME*plus*® Tool kit	10,50

13 x	1/4": 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 11 - 12 - 13 - 14 mm
10 x	1/2": 15 - 17 - 18 - 19 - 20 - 22 - 24 27 - 30 - 32 mm
2 x	1/2": 16 - 21 mm
1 x	1/4"
2 x	1/4": 50 - 100 mm
1 x	1/4"
1 x	1/4" x 1/4"
1 x	1/4": 185 mm
1 x	1/4"
1 x	1/4": 140 mm
2 x	1/2": 125 - 250 mm
1 x	1/2"
1 x	1/2": F3/8" - M1/2"
1 x	1/2": 250 mm
6 x	1/4": 3 - 4 - 5 - 6 - 7 - 8 mm
5 x	1/4": PH0 - PH1 - 2 x PH2 - PH3
5 x	1/4": PZ0 - PZ1 - 2 x PZ2 - PZ3
6 x	1/4": 3 - 4 - 5 - 6 - 7 - 8 mm
7 x	1/4": T10 - T15 - T20 - T25 - T27 T30 - T40
1 x	1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm
7 x	7 - 8 - 10 - 12 - 13 - 17 - 19 mm
2 x	5,5 - 6,5 mm
2 x	PH1 - PH2
1 x	240 mm
1 x	180 mm

Universal tool kit set

- 6 point
- FlankTraction profile
- Matt finish
- Chrome vanadium
- In a classy aluminium case

1/4" 1/2"

			kg
911.0630	130 pcs	Universal tool kit set	14,14

12 x	1/4": 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm
16 x	1/2": 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 21 - 22 - 24 - 27 - 30 - 32 mm
2 x	1/4": 50 - 100 mm
2 x	1/2": 125 - 250 mm
2 x	1/4" - 1/2"
1 x	1/2": 250 mm
1 x	1/4" x 1/4"
1 x	28 mm
1 x	

1 x	
1 x	0 - 150 mm
1 x	300 g
1 x	130 - 630 mm
1 x	300 mm
1 x	1/4“: 911.2060
1 x	1/4“: 150 mm
1 x	1/4“: 205 mm
1 x	1/4“: 145 mm
1 x	1/2“: 250 mm
1 x	1/4“
9 x	1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm
9 x	TS10 - TS15 - TS20 - TS25 - TS27 - TS30 - TS40 - TS45 - TS50
1 x	
1 x	5 m
11 x	8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 17 - 19 - 22 mm
2 x	4 - 8 mm
2 x	PH1 - PH2
2 x	PZ1 - PZ2
1 x	150 - 250 V
1 x	3 mm
2 x	PH1 - PH2
1 x	160 mm
1 x	180 mm
1 x	200 mm
1 x	240 mm
1 x	250 mm

1/4” TOOL CHESTS

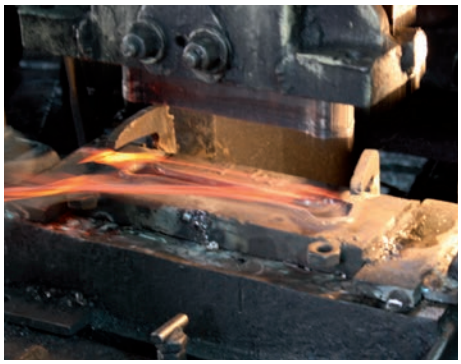
Universal tool kit

- With 3 drawers and upper insert storage
- 6 point
- FlankTraction profile
- Matt finish
- Chrome vanadium
- Central locking of all drawers through lid opening and lid closure
- Lid locked by cylinder lock
- In durable steel tool chest

1/4“ 1/2“

			kg
911.0100	100 pcs	Universal tool kit	19,80

12 x	1/4“: 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 -9 - 10 11 - 12 - 13 mm
12 x	1/2“: 14 - 15 - 16 - 17 - 18 - 19 - 20 22 - 24 - 27 - 30 - 32 mm
2 x	1/2“: 16 - 21 mm
1 x	1/4“: 911.2060
1 x	1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm
4 x	1/4“: 50 - 100 mm; 1/2“: 125 - 250 mm
2 x	1/4“: 100 mm; 1/2“: 250 mm
1 x	1/4“
2 x	1/4“ - 1/2“
2 x	1/4“: 145 mm; 1/2“: 250 mm
12 x	6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 17 19 - 22 mm
4 x	4,0 x 100 mm - 4,5 x 100 mm 5,0 x 100 mm - 5,0 x 150 mm
2 x	PH1 x 75 mm - PH2 x 100 mm
1 x	160 mm
1 x	180 mm
1 x	200 mm
1 x	10“



CHROME*plus*® Universal tool set

- With 3 drawers and upper insert storage
- 6 point
- FlankTraction profile
- Mirror polished
- Chrome vanadium
- Central locking of all drawers through lid opening and lid closure
- Lid locked by cylinder lock
- In durable steel tool chest

1/4“ 1/2“

			kg
918.0100	99 pcs	CHROME*plus*® Universal tool set	19,50

13 x	1/4“: 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 13 - 14 mm
3 x	1/4“: 8 - 10 - 13 mm
1 x	1/4“: 50 mm
1 x	1/4“
1 x	1/4“: 110 mm
1 x	1/4“: 140 mm
3 x	1/4“: 4 - 5,5 - 7 mm
2 x	1/4“: PH1 - PH2
2 x	1/4“: PZ1 - PZ2
6 x	1/4“: 3 - 4 - 5 - 6 - 7 - 8 mm
7 x	1/4“: T10 - T15 - T20 - T25 - T27 T30 - T40
12 x	1/2“: 13 - 15 - 17 - 18 - 19 - 20 - 21 22 - 24 - 27 - 30 - 32 mm
2 x	1/2“: 17 - 19 mm
2 x	1/2“: 16 - 21 mm
2 x	1/2“: 125 - 250 mm
1 x	1/2“: F3/8“ x M 1/2“
1 x	1/2“
1 x	1/2“: 250 mm
1 x	1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 7 - 8 - 10 mm
12 x	8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 17 - 18 - 19 mm
6 x	6 x 38 - 3 x 75 - 4 x 100 - 5,5 x 100 6,5 x 125 - 8 x 150 mm
4 x	PH2 x 38 mm - PH1 x 75 mm - PH2 x 100 mm - PH3 x 150 mm
1 x	160 mm
1 x	180 mm
1 x	200 mm
1 x	10“
1 x	250 mm
1 x	300 g

CHROME*plus*® Universal tool set

- With 3 drawers and upper insert storage
- 6 point
- FlankTraction profile
- Mirror polished
- Chrome vanadium
- Central locking of all drawers through lid opening and lid closure
- Lid locked by cylinder lock
- In durable steel tool chest

1/4" 1/2"

			kg
918.0200	99 pcs	CHROME*plus*® Universal tool set	19,50
13 x		1/4": 4 - 4,5 - 5 -5,5 - 6 - 7 - 8 - 9 - 10 11 - 12 - 13 - 14 mm	
3 x		1/4": 8 - 10 - 13 mm	
1 x		1/4": 50 mm	
1 x		1/4"	
1 x		1/4": 110 mm	
1 x		1/4": 145 mm	
3 x		1/4": 4 - 4,5 - 7 mm	
2 x		1/4": PH1 - PH2	
2 x		1/4": PZ1 - PZ2	
6 x		1/4": 3 - 4 - 5 - 6 - 7 - 8 mm	
7 x		1/4": T10 - T15 - T20 - T25 - T27 T30 - T40	
12 x		1/2": 13 - 15 - 17 - 18 - 19 - 20 - 21 22 - 24 - 27 - 30 - 32 mm	
2 x		1/2": 17 - 19 mm	
2 x		1/2": 16 - 21 mm	
2 x		1/2": 125 - 250 mm	
1 x		1/2": F3/8" x M 1/2"	
1 x		1/2"	
1 x		1/2": 250 mm	
1 x		1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm	
12 x		8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 17 - 18 - 19 mm	
6 x		6 x 38 mm - 3 x 75 mm - 4 x 100 mm 5,5 x 100 mm - 6,5 x 125 mm - 8 x 150 mm	
4 x		PH2 x 38 mm - PH1 x 75 mm PH2 x 100 mm - PH3 x 150 mm	
1 x		160 mm	
1 x		180 mm	
1 x		200 mm	
1 x		10"	
1 x		250 mm	
1 x		300 g	

CHROME*plus*® Universal tool set

- With 3 drawers and upper insert storage
- Imperial sizes
- 6 point
- FlankTraction profile
- Mirror polished
- Chrome vanadium
- Central locking of all drawers through lid opening and lid closure
- Lid locked by cylinder lock
- In durable steel tool chest

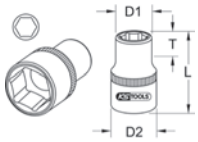
1/4" 1/2"

			kg
918.0150	99 pcs	CHROME*plus*® Universal tool set	25,60
13 x		1/4": 5/32" - 3/16" - 7/32" - 1/4" - 9/32" - 5/16" 11/32" - 3/8" - 13/32" - 7/16" - 15/32" - 1/2" - 9/16"	
3 x		1/4": 5/16" - 3/8" - 1/2"	
1 x		1/4": 50 mm	
1 x		1/4"	
1 x		1/4": 110 mm	
1 x		1/4": 140 mm	
3 x		1/4": 5/32" - 1/4" - 9/32"	
2 x		1/4": PH1 - PH2	
2 x		1/4": PZ1 - PZ2	
6 x		1/4": 1/8" - 5/32" - 3/16" - 7/32" - 1/4" - 5/16"	
7 x		1/4": T10 - T15 - T20 - T25 - T27 - T30 - T40	
12 x		1/2": 7/16" - 1/2" - 9/16" - 5/8" - 11/16" - 3/4" 13/16" - 7/8" - 15/16" 1.1/16" - 1.3/16" - 1.1/4"	
2 x		1/2": 11/16" - 3/4"	
2 x		1/2": 16 - 21 mm	
2 x		1/2": 125 - 250 mm	
1 x		1/2": F3/8" x M 1/2"	
1 x		1/2"	
1 x		1/2": 250 mm	
1 x		1/16" - 5/64" - 3/32" - 1/8" - 5/32" - 3/16" 7/32" - 1/4" - 5/16" - 3/8"	
12 x		1/4" - 5/16" - 3/8" - 7/16" - 1/2" - 9/16" - 5/8" 11/16" - 3/4" - 13/16" - 7/8" - 15/16"	
6 x		6 x 38 mm - 3 x 75 mm - 4 x 100 mm 5,5 x 100 mm - 6,5 x 125 mm - 8 x 150 mm	
4 x		PH2 x 38 mm - PH1 x 75 mm PH2 x 100 mm - PH3 x 150 mm	
1 x		125 mm	
1 x		180 mm	
1 x		200 mm	
1 x		10"	
1 x		250 mm	
1 x		300 g	

3/8" SOCKETS

Hexagonal socket

- 6 point
- FlankTraction profile
- According to DIN 3124 / ISO 2725
- Internal square to DIN 3120 / ISO 1174 with ball reception
- For manual operation
- Matt finish
- Chrome vanadium



3/8"

	mm		D1 mm	D2 mm	L mm	T mm	g
917.3806	6,0		10,0	18,0	28,0	5,0	20
917.3807	7,0		11,0	18,0	28,0	5,0	22
917.3808	8,0		12,0	18,0	28,0	9,0	24
917.3809	9,0		14,0	18,0	28,0	9,0	26
917.3810	10,0		15,0	18,0	28,0	9,0	30
917.3811	11,0		16,0	18,0	28,0	9,0	30
917.3812	12,0		17,0	18,0	28,0	9,0	32
917.3813	13,0		19,0	18,0	28,0	9,0	35
917.3814	14,0		20,0	18,0	29,0	11,0	40
917.3815	15,0		21,0	20,0	30,0	13,0	42
917.3816	16,0		22,0	21,0	30,0	13,0	48
917.3817	17,0		24,0	22,0	30,0	13,0	55
917.3818	18,0		25,0	23,0	30,0	13,0	60
917.3819	19,0		26,0	24,0	30,0	13,0	70
917.3820	20,0		27,0	25,0	31,0	13,0	75
917.3821	21,0		29,0	26,0	31,0	14,0	82
917.3822	22,0		30,0	26,0	32,0	15,0	85
917.4823	23,0		31,0	28,0	30,0	15,0	88
917.3824	24,0		31,0	27,0	32,0	16,0	88
917.3870		1/4"	10,0	18,0	30,0	6,0	20
917.3871		9/32"	11,0	18,0	30,0	7,0	22
917.3872		5/16"	12,0	18,0	30,0	7,0	24
917.3873		11/32"	13,0	18,0	30,0	7,0	26
917.3874		3/8"	14,0	18,0	30,0	9,0	26
917.3875		7/16"	16,0	16,0	27,0	10,0	30
917.3876		1/2"	18,0	18,0	30,0	12,0	30
917.3877		9/16"	20,0	20,0	30,0	13,0	30
917.3801		19/32"	19,0	20,8	30,0	13,0	40
917.3878		5/8"	22,0	22,0	30,0	13,0	40
917.3879		11/16"	23,0	24,0	30,0	14,0	50
917.3880		3/4"	25,0	26,0	30,0	15,0	60
917.3881		13/16"	21,0	28,0	32,0	16,0	70
917.3882		7/8"	29,0	30,0	32,0	18,0	80

Hexagonal socket set

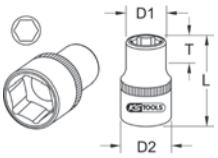
- 6 point
- FlankTraction profile
- According to DIN 3124 / ISO 2725
- Internal square to DIN 3120 / ISO 1174 with ball reception
- For manual operation
- Matt finish
- Chrome vanadium
- Includes storage rail

3/8"

			kg
911.0608	11 pcs	8 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm	0,75

CHROME*plus*® hexagonal socket

- 6 point
- FlankTraction profile
- According to DIN 3124 / ISO 2725
- Internal square to DIN 3120 / ISO 1174 with ball reception
- For manual operation
- Mirror polished
- Chrome vanadium



3/8"

	mm		D1 mm	D2 mm	L mm	T mm	g	
918.3936	6,0		10,0	18,0	28,0	5,0	20	
918.3937	7,0		11,0	18,0	27,0	5,0	22	
918.3808	8,0		12,0	18,0	27,0	9,0	24	
918.3809	9,0		14,0	18,0	27,0	9,0	26	
918.3810	10,0		15,0	18,0	27,0	9,0	30	
918.3811	11,0		16,0	18,0	27,0	9,0	30	
918.3812	12,0		17,0	18,0	30,0	9,0	32	
918.3813	13,0		19,0	18,0	30,0	9,0	35	
918.3814	14,0		20,0	18,0	30,0	11,0	40	
918.3815	15,0		21,0	20,0	30,0	13,0	42	
918.3816	16,0		22,0	21,0	30,0	13,0	48	
918.3817	17,0		24,0	22,0	30,0	13,0	55	
918.3818	18,0		25,0	24,0	30,0	13,0	60	
918.3819	19,0		26,0	25,0	30,0	13,0	70	
918.3820	20,0		27,7	24,9	30,0	16,0	70	
918.3821	21,0		27,8	25,0	32,0	16,0	63	
918.3822	22,0		29,8	26,6	30,0	16,0	82	
918.4818	23,0		31,0	28,0	30,0	15,0	88	
918.3824	24,0		31,7	29,0	30,0	16,0	92	
918.3901		1/4"	10,5	16,9	28,0	11,5	20	
918.3912		9/32"	10,6	16,9	28,0	11,5	22	
918.3902		5/16"	11,9	16,9	28,0	11,5	20	
918.3903		11/32"	14,2	16,9	28,0	11,5	26	
918.3913		3/8"	14,6	16,9	28,0	11,5	26	
918.3904		7/16"	15,6	16,9	28,0	11,5	30	
918.3905		1/2"	17,8	16,9	28,0	11,5	30	
918.3906		9/16"	19,8	16,9	28,0	14,3	30	
918.3951		19/32"	19,0	20,8	30,0	13,0	40	
918.3907		5/8"	21,8	18,8	28,0	14,3	40	
918.3908		11/16"	23,9	19,9	30,0	16,4	50	
918.3909		3/4"	25,8	22,9	30,0	16,4	60	
918.3910		13/16"	27,8	25,0	30,0	16,4	70	
918.3911		7/8"	29,8	28,8	30,0	16,4	80	

CHROME*plus*® Hexagonal socket set

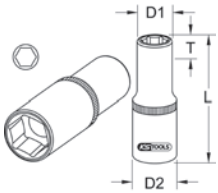
- 6 point
- FlankTraction profile
- According to DIN 3124 / ISO 2725
- Internal square to DIN 3120 / ISO 1174 with ball reception
- For manual operation
- Mirror polished
- Includes storage rail

3/8"

			kg	
918.0608	11 pcs	8 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm	0,75	

Hexagonal socket, deep

- 6 point
- For installing and removing the glow plugs
- FlankTraction profile
- According to DIN 3124 / ISO 2725
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Long execution
- For manual operation
- Matt finish
- Chrome vanadium



3/8"

	mm		D1 mm	D2 mm	L mm	T mm	g	
917.4806	6,0		10,0	17,0	63,0	8,0	50	
917.4807	7,0		11,0	17,0	63,0	8,0	50	
917.3828	8,0		12,0	16,0	63,0	10,0	110	
917.3829	9,0		14,0	17,0	63,0	11,0	110	
917.3830	10,0		15,0	18,0	63,0	11,0	110	
917.3831	11,0		16,0	18,0	63,0	12,0	120	
917.3832	12,0		17,0	18,0	63,0	14,0	120	
917.3833	13,0		19,0	19,0	63,0	14,0	140	
917.3834	14,0		20,0	20,0	63,0	17,0	140	
917.3835	15,0		21,0	21,0	63,0	17,0	140	
917.3836	16,0		22,0	22,0	63,0	17,0	150	
917.3837	17,0		24,0	21,0	63,0	17,0	150	
917.3838	18,0		24,0	25,0	63,0	20,0	150	
917.3839	19,0		26,0	22,0	63,0	20,0	150	
917.3840	20,0		28,0	24,0	63,0	20,0	150	
917.3841	21,0		28,0	24,0	63,0	20,0	150	
917.3842	22,0		30,0	24,0	63,0	23,0	150	
917.4808	24,0		32,0	30,0	63,0	24,0	160	
917.3843		3/8"	15,0	18,0	63,0	11,0	50	
917.3844		7/16"	16,0	18,0	63,0	12,0	50	
917.3845		1/2"	19,0	19,0	63,0	14,0	70	
917.3846		9/16"	20,0	20,0	63,0	17,0	70	
917.3847		5/8"	22,0	22,0	63,0	17,0	90	
917.3848		11/16"	24,0	21,0	63,0	17,0	90	
917.3849		3/4"	26,0	22,0	63,0	20,0	90	
917.3802		13/16"	27,0	25,0	63,0	23,0	180	
917.3803		7/8"	29,0	26,5	63,0	25,0	190	

Hexagonal socket set, deep

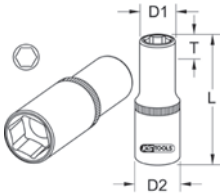
- 6 point
- FlankTraction profile
- According to DIN 3124 / ISO 2725
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Long execution
- For manual operation
- Matt finish
- Chrome vanadium
- Includes storage rail

3/8"

			kg	
911.0611	11 pcs	8 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm	0,75	

CHROME*plus*® Hexagonal socket, deep

- 6 point
- FlankTraction profile
- According to DIN 3124 / ISO 2725
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Long execution
- For manual operation
- Mirror polished
- Chrome vanadium



3/8"

	mm		D1 mm	D2 mm	L mm	g	
918.4931	6		10,0	17,0	63,0	50	
918.4932	7		11,0	17,0	63,0	50	
918.3828	8		12,6	16,9	63,0	43	
918.3829	9		17,0	13,0	63,0	45	
918.3830	10		14,6	16,9	63,0	51	
918.3831	11		16,0	16,9	63,0	52	
918.3832	12		17,8	16,9	63,0	59	
918.3833	13		17,8	16,9	63,0	75	
918.3834	14		19,6	17,9	63,0	77	
918.3835	15		21,8	19,6	63,0	78	
918.3836	16		21,8	19,6	63,0	82	
918.3837	17		23,7	21,8	63,0	107	
918.3838	18		25,7	22,9	63,0	120	
918.3839	19		25,7	22,9	63,0	149	
918.3840	20		27,8	25,2	63,0	154	
918.3841	21		27,8	25,5	63,0	150	
918.3842	22		29,9	26,8	63,0	159	
918.4933	24		32,0	30,0	63,0	160	
918.3923		3/8"	14,6	16,9	63,0	50	
918.3924		7/16"	15,9	16,9	63,0	50	
918.3925		1/2"	17,8	16,9	63,0	70	
918.3926		9/16"	19,8	18,0	63,0	70	
918.3927		5/8"	23,8	21,7	63,0	90	
918.3928		11/16"	23,8	21,7	63,0	90	
918.3929		3/4"	25,8	23,2	63,0	90	
918.3706		13/16"	27,0	25,0	63,0	130	
918.3707		7/8"	29,0	26,5	63,0	180	

CHROME*plus*® hexagonal socket set, deep

- 6 point
- According to DIN 3124 / ISO 2725
- Square socket according to DIN 3120 - ISO 1174 with ball catching groove
- Long execution
- For manual operation
- FlankTraction profile
- Mirror polished
- Chrome vanadium
- Includes storage rail

3/8"

			kg	
918.0611	11 pcs	8 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm	0,75	

hexagonal socket with flexible joint

- 6 point
- FlankTraction profile
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Screwed joints
- For manual operation
- Matt finish
- Chrome vanadium

3/8"

	mm	D1 mm	D2 mm	L mm	T mm	g
917.3941	10,0	15,0	20,0	40,0	6,0	50
917.3942	11,0	16,0	20,0	40,0	6,0	60
917.3943	12,0	17,0	20,0	40,0	7,0	70
917.3944	13,0	19,0	20,0	40,0	7,0	80
917.3945	14,0	20,0	20,0	40,0	9,0	80
917.3946	15,0	21,0	20,0	40,0	9,0	80
917.3947	16,0	22,0	20,0	40,0	10,0	80
917.3948	17,0	24,0	20,0	40,0	11,0	80
917.3949	18,0	24,0	20,0	40,0	12,0	100
917.3951	19,0	26,0	20,0	40,0	13,0	100

hexagonal socket set with flexible joint

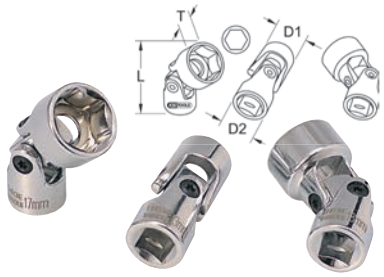
- 6 point
- FlankTraction profile
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Screwed joints
- For manual operation
- Matt finish
- Chrome vanadium
- Includes storage rail

3/8"

			kg
917.3940	10 pcs	10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm	1,10

CHROME*plus*® hexagonal socket with flexible joint

- 6 point
- FlankTraction profile
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Screwed joints
- For manual operation
- Mirror polished
- Chrome vanadium



3/8"

	mm	D1 mm	D2 mm	L mm	T mm	g
911.3841	10,0	15,0	20,0	40,0	6,0	50
911.3842	11,0	16,0	20,0	40,0	6,0	60
911.3843	12,0	17,0	20,0	40,0	7,0	70
911.3844	13,0	19,0	20,0	40,0	7,0	80
911.3845	14,0	20,0	20,0	40,0	9,0	80
911.3846	15,0	21,0	20,0	40,0	9,0	80
911.3847	16,0	22,0	20,0	40,0	10,0	80
911.3848	17,0	24,0	20,0	40,0	11,0	80
911.3849	18,0	24,0	20,0	40,0	12,0	100
911.3851	19,0	26,0	20,0	40,0	13,0	100

CHROME*plus*® hexagonal socket set with flexible joint

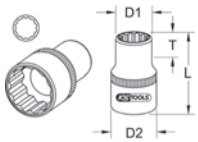
- 6 point
- FlankTraction profile
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Screwed joints
- For manual operation
- Mirror polished
- Chrome vanadium
- Includes storage rail

3/8"

			kg
911.3840	10 pcs	10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm	1,11

12 Point socket

- 12 point
- FlankTraction profile
- According to DIN 3124 / ISO 2725
- Internal square to DIN 3120 / ISO 1174 with ball reception
- For manual operation
- Matt finish
- Chrome vanadium



3/8"

	mm		D1 mm	D2 mm	L mm	T mm	g
917.3804	6,0		10,0	18,0	28,0	5,0	20
917.3805	7,0		11,0	18,0	28,0	5,0	22
911.3981	8,0		12,0	18,0	28,0	9,0	24
911.3982	9,0		14,0	18,0	28,0	9,0	26
911.3983	10,0		15,0	18,0	28,0	9,0	30
911.3984	11,0		16,0	18,0	28,0	9,0	30
911.3985	12,0		17,0	18,0	28,0	9,0	32
911.3986	13,0		19,0	18,0	28,0	9,0	35
911.3987	14,0		20,0	18,0	29,0	11,0	40
911.3988	15,0		21,0	20,0	30,0	13,0	42
911.3989	16,0		22,0	21,0	30,0	13,0	48
911.3992	17,0		24,0	22,0	30,0	13,0	55
911.3993	18,0		25,0	23,0	30,0	13,0	60
911.3994	19,0		26,0	24,0	30,0	13,0	70
917.4811	20,0		26,0	20,0	30,0	15,5	51
911.3996	21,0		29,0	26,0	31,0	14,0	82
911.3997	22,0		30,0	26,0	32,0	15,0	85
917.4812	23,0		32,0	30,0	32,0	16,5	90
911.3998	24,0		31,0	27,0	32,0	15,0	90
917.4814		3/16	10,0	17,0	28,0	9,0	20
917.3823		1/4"	10,0	18,0	30,0	6,0	20
917.3825		9/32"	11,0	18,0	30,0	7,0	22
917.3826		5/16"	12,0	18,0	30,0	7,0	24
917.3827		11/32"	13,0	18,0	30,0	7,0	26
917.3851		3/8"	14,0	18,0	30,0	9,0	26
917.4815		13/32	16,0	17,0	28,0	12,5	30
917.3852		7/16"	16,0	16,0	27,0	10,0	30
911.4000		1/2"	18,0	19,0	28,0	9,0	35
911.4001		9/16"	20,0	19,0	29,0	11,0	40
911.4002		19/32"	21,0	20,0	30,0	13,0	42
911.4003		5/8"	22,0	21,0	30,0	13,0	48
911.4004		11/16"	24,0	23,0	30,0	13,0	55
911.4005		3/4"	26,0	24,0	30,0	13,0	70
917.4813		25/32	26,0	24,3	30,0	12,5	46
917.3854		13/16"	21,0	28,0	32,0	16,0	70
911.4006		7/8"	30,0	27,0	32,0	15,0	100
917.4816		15/16	32,0	28,0	32,0	15,0	110
917.4817		1	34,0	30,0	32,0	15,5	120

12 point socket set

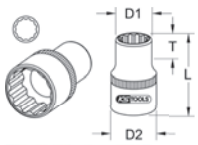
- 12 point
- FlankTraction profile
- According to DIN 3124 / ISO 2725
- Internal square to DIN 3120 / ISO 1174 with ball reception
- For manual operation
- Matt finish
- Includes storage rail

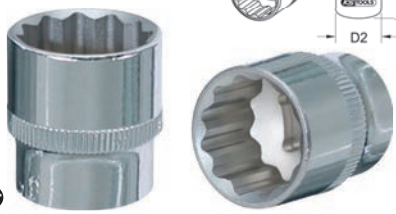
3/8"

			kg
911.0609	11 pcs	8 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm	0,75

CHROME*plus*® 12 point socket

- 12 point
- FlankTraction profile
- According to DIN 3124 / ISO 2725-1
- Internal square to DIN 3120 / ISO 1174 with ball reception
- For manual operation
- Mirror polished
- Chrome vanadium





3/8"

	mm		D1 mm	D2 mm	L mm	T mm	g
918.3723	6,0		10,0	18,0	28,0	5,0	20
918.3725	7,0		11,0	18,0	28,0	5,0	22
918.3708	8,0		12,0	18,0	28,0	9,0	24
918.3709	9,0		14,0	18,0	28,0	9,0	26
918.3710	10,0		15,0	18,0	28,0	9,0	30
918.3711	11,0		16,0	18,0	28,0	9,0	30
918.3712	12,0		17,0	18,0	28,0	9,0	32
918.3713	13,0		19,0	18,0	28,0	9,0	35
918.3714	14,0		20,0	18,0	29,0	11,0	40
918.3715	15,0		21,0	20,0	30,0	13,0	42
918.3716	16,0		22,0	21,0	30,0	13,0	48
918.3717	17,0		24,0	22,0	30,0	13,0	55
918.3718	18,0		25,0	23,0	30,0	13,0	60
918.3719	19,0		26,0	24,0	30,0	13,0	70
918.3720	20,0		27,0	25,0	31,0	13,0	75
918.3721	21,0		29,0	26,0	31,0	14,0	82
918.3722	22,0		30,0	26,0	32,0	15,0	85
918.4812	23,0		31,0	27,0	32,0	16,5	90
918.3724	24,0		31,0	27,0	32,0	16,0	88
918.4814		3/16"	10,0	17,0	28,0	9,0	20
918.3726		1/4"	10,0	18,0	30,0	6,0	20
918.3727		9/32"	11,0	18,0	30,0	7,0	22
918.3728		5/16"	12,0	18,0	30,0	7,0	24
918.3729		11/32"	13,0	18,0	30,0	7,0	26
918.3731		3/8"	14,0	18,0	30,0	9,0	26
918.4815		13/32"	16,0	17,0	28,0	12,5	30
918.3732		7/16"	16,0	18,0	30,0	10,0	30
918.3733		1/2"	18,0	18,0	30,0	12,0	30
918.3734		9/16"	20,0	20,0	30,0	13,0	30
918.3741		19/32"	19,0	20,8	30,0	13,0	40
918.3735		5/8"	22,0	22,0	30,0	13,0	40
918.3736		11/16"	23,0	24,0	30,0	14,0	50
918.3737		3/4"	25,0	26,0	30,0	15,0	60
918.4813		25/32"	26,0	24,3	30,0	12,5	46
918.3738		13/16"	21,0	28,0	32,0	16,0	70
918.3739		7/8"	29,0	30,0	32,0	18,0	80
918.4816		15/16"	32,0	28,0	32,0	15,0	110
918.4817		1"	34,0	30,0	32,0	15,5	120

CHROME*plus*® 12 Point socket set

- 12 point
- FlankTraction profile
- According to DIN 3124 / ISO 2725
- Internal square to DIN 3120 / ISO 1174 with ball reception
- For manual operation
- Mirror polished
- Includes storage rail

3/8"

			kg	
918.0601	11 pcs	8 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm	0,75	

12 Point socket, deep

- 12 point
- FlankTraction profile
- According to DIN 3124 / ISO 2725
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Long execution
- For manual operation
- Matt finish
- Chrome vanadium

3/8"

	○ mm	○	D1 mm	D2 mm	L mm	T mm	g	
917.4831	6,0		10,0	16,0	63,0	8,0	34	
917.4832	7,0		11,0	16,0	63,0	8,0	36	
917.3855	8,0		12,0	16,0	63,0	10,0	40	
917.3856	9,0		14,0	17,0	63,0	10,0	43	
917.3970	10,0		15,0	18,0	63,0	11,0	50	
917.3971	11,0		16,0	18,0	63,0	12,0	60	
917.3972	12,0		17,0	18,0	63,0	14,0	65	
917.3973	13,0		19,0	19,0	63,0	14,0	70	
917.3974	14,0		20,0	20,0	63,0	17,0	85	
917.3975	15,0		21,0	21,0	63,0	17,0	85	
917.3976	16,0		22,0	22,0	63,0	17,0	95	
917.3977	17,0		24,0	21,0	63,0	17,0	105	
917.3978	18,0		25,0	22,0	63,0	20,0	110	
917.3979	19,0		26,0	22,0	63,0	20,0	120	
917.3980	20,0		27,0	24,0	63,0	20,0	135	
917.3981	21,0		29,0	24,0	63,0	20,0	145	
917.3982	22,0		30,0	24,0	63,0	23,0	160	
917.4833	24,0		32,0	30,0	63,0	24,0	160	
917.4834		1/4"	10,0	16,0	63,0	8,0	36	
917.4835		5/16"	12,0	16,0	63,0	8,0	36	
917.3983		3/8"	14,0	18,0	63,0	11,0	50	
917.3984		7/16"	16,0	18,0	63,0	12,0	60	
917.3985		1/2"	18,0	19,0	63,0	14,0	70	
917.3986		9/16"	20,0	20,0	63,0	17,0	85	
917.3987		5/8"	22,0	22,0	63,0	17,0	95	
917.3988		11/16"	24,0	21,0	63,0	17,0	105	
917.3989		3/4"	26,0	22,0	63,0	20,0	135	
917.3990		13/16"	28,0	24,0	63,0	20,0	145	
917.3991		7/8"	30,0	24,0	63,0	23,0	160	
917.4836		15/16"	32,0	30,0	63,0	20,0	170	
917.4838		1"	32,0	30,0	63,0	24,0	185	

12 Point socket set, deep

- 12 point
- FlankTraction profile
- According to DIN 3124 / ISO 2725
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Long execution
- For manual operation
- Matt finish
- Includes storage rail

3/8"

			kg	
911.0606	11 pcs	8 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm	0,75	

CHROME*plus*® 12 Point socket, deep

- 12 point
- FlankTraction profile
- According to DIN 3124 / ISO 2725
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Long execution
- For manual operation
- Mirror polished
- Chrome vanadium

3/8"

	⬢ mm	⬢	D1 mm	D2 mm	L mm	T mm	g	
918.4831	6,0		10,0	16,0	63,0	8,0	34	
918.4832	7,0		11,0	16,0	63,0	8,0	36	
918.3742	8,0		12,0	16,0	63,0	10,0	45	
918.3743	9,0		14,0	17,0	63,0	10,0	50	
918.3744	10,0		15,0	18,0	64,0	11,0	50	
918.3745	11,0		16,0	18,0	64,0	12,0	60	
918.3746	12,0		17,0	18,0	64,0	14,0	65	
918.3747	13,0		19,0	19,0	64,0	14,0	70	
918.3748	14,0		20,0	20,0	64,0	17,0	85	
918.3749	15,0		21,0	21,0	64,0	17,0	85	
918.3751	16,0		22,0	22,0	64,0	17,0	95	
918.3752	17,0		24,0	21,0	64,0	17,0	105	
918.3753	18,0		25,0	22,0	64,0	20,0	110	
918.3754	19,0		26,0	22,0	64,0	20,0	120	
918.3755	20,0		27,0	24,0	64,0	20,0	135	
918.3756	21,0		29,0	24,0	64,0	20,0	145	
918.3757	22,0		30,0	24,0	64,0	23,0	160	
918.4833	24,0		32,0	30,0	63,0	24,0	160	
918.4834		1/4"	10,0	16,0	63,0	8,0	36	
918.4835		5/16"	12,0	16,0	63,0	8,0	36	
918.3758		3/8"	14,0	18,0	64,0	11,0	50	
918.3759		7/16"	16,0	18,0	64,0	12,0	60	
918.3761		1/2"	18,0	19,0	64,0	14,0	70	
918.3762		9/16"	20,0	20,0	64,0	17,0	85	
918.4837		19/32"	27,0	21,0	63,0	20,0	175	
918.3763		5/8"	22,0	22,0	64,0	17,0	95	
918.3764		11/16"	24,0	22,0	64,0	17,0	105	
918.3765		3/4"	26,0	22,0	64,0	20,0	135	
918.3766		13/16"	28,0	24,0	64,0	20,0	145	
918.3767		7/8"	30,0	24,0	64,0	23,0	160	
918.4836		15/16"	32,0	30,0	63,0	20,0	170	
918.4838		1"	32,0	30,0	63,0	24,0	185	

CHROME*plus*® 12-point socket-set, deep

- 12 point
- FlankTraction profile
- According to DIN 3124 / ISO 2725
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Long execution
- For manual operation
- Mirror polished
- Includes storage rail

3/8"

			kg	
918.0602	11 pcs	8 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm	0,75	

12-sided socket with joint

- 12 point
- FlankTraction profile
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Screwed joints
- For manual operation
- Matt finish
- Chrome vanadium

3/8"

	⬢ mm	⬢	L mm	D1 mm	D2 mm	g	
917.4851	10		44,0	15,4	19,0	55	
917.4852	11		46,0	16,2	19,0	57	
917.4853	12		46,0	17,5	19,0	57	
917.4854	13		49,0	18,0	19,0	59	
917.4855	14		49,0	20,0	19,0	60	
917.4856	15		49,0	22,0	19,0	65	
917.4857	16		49,0	22,0	19,0	65	
917.4858	17		49,0	24,3	19,0	70	
917.4859	18		51,0	25,7	19,0	70	
917.4861	19		51,0	25,7	19,0	75	
917.4862		3/8"	44,0	14,5	19,0	55	
917.4863		7/16"	46,0	15,5	19,0	57	
917.4864		1/2"	49,0	19,0	19,0	59	
917.4865		9/16"	49,0	20,0	19,0	60	
917.4866		5/8"	49,0	22,0	19,0	65	
917.4867		11/16"	49,0	24,3	19,0	70	
917.4868		3/4"	49,0	25,7	19,0	75	

CHROME*plus*® 12-sided socket with joint

- 12 point
- FlankTraction profile
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Screwed joints
- For manual operation
- Mirror polished
- Chrome vanadium

3/8"

	⬢ mm	⬢	L mm	D1 mm	g	
918.4851	10		44,0	15,4	55	
918.4852	11		46,0	16,2	57	

	mm		L mm	D1 mm	g
918.4853	12		46,0	17,5	57
918.4854	13		49,0	18,0	59
918.4855	14		49,0	20,0	60
918.4856	15		49,0	22,0	65
918.4857	16		49,0	22,0	65
918.4858	17		49,0	24,3	70
918.4859	18		51,0	25,7	70
918.4861	19		51,0	25,7	75
918.4862		3/8"	44,0	14,5	55
918.4863		7/16"	46,0	15,5	57
918.4864		1/2"	49,0	19,0	59
918.4865		9/16"	49,0	20,0	60
918.4866		5/8"	49,0	22,0	65
918.4867		11/16"	49,0	24,3	70
918.4868		3/4"	49,0	25,7	75

Torx E socket

- Torx E
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- For manual operation
- Matt finish
- Chrome vanadium

3/8"

		D1 mm	D2 mm	L mm	T mm	g
911.4338	E4	7,0	17,0	28,0	5,0	25
911.4339	E5	7,0	18,0	28,0	5,0	25
911.4340	E6	9,0	18,0	28,0	5,0	25
911.4341	E7	10,0	18,0	28,0	6,0	25
911.4342	E8	11,0	18,0	28,0	6,0	25
911.4318	E10	13,0	18,0	28,0	9,0	30
911.4319	E11	14,0	18,0	28,0	9,0	30
911.4320	E12	15,0	18,0	28,0	9,0	30
911.4321	E14	17,0	18,0	28,0	9,0	35
911.4343	E16	18,0	19,0	28,0	9,0	40
911.4344	E18	19,0	19,0	28,0	9,0	40
911.4345	E20	19,0	20,0	28,0	9,0	40

Torx E socket set

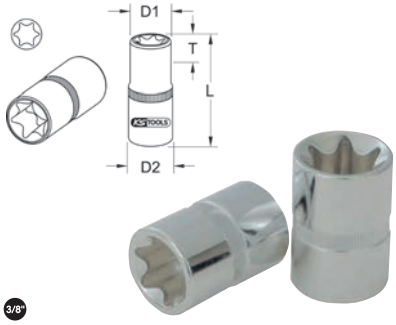
- Torx E
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- For manual operation
- Matt finish
- Chrome vanadium
- Includes storage rail

3/8"

			kg
911.3930	10 pcs	E5 - E6 - E7 - E8 - E10 - E11 - E12 - E14 - E16 - E18	0,31

CHROME*plus*® Torx E socket

- Torx E
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- For manual operation
- Mirror polished
- Chrome vanadium



3/8"

		D1 mm	D2 mm	L mm	T mm	g
918.3971	E4	7,0	17,0	28,0	5,0	25
918.3972	E5	7,0	18,0	28,0	5,0	25
918.3973	E6	9,0	18,0	28,0	5,0	25
918.3974	E7	10,0	18,0	28,0	6,0	25
918.3975	E8	11,0	18,0	28,0	6,0	25
918.3976	E10	13,0	18,0	28,0	9,0	30
918.3977	E11	14,0	18,0	28,0	9,0	30
918.3978	E12	15,0	18,0	28,0	9,0	30
918.3979	E14	17,0	18,0	28,0	9,0	35
918.3980	E16	18,0	23,0	28,0	9,0	40
918.3981	E18	19,0	24,0	28,0	9,0	40
918.3982	E20	19,0	17,0	28,0	9,0	40

CHROME*plus*® Torx E socket set

- Torx E
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- For manual operation
- Mirror polished
- Chrome vanadium
- Includes storage rail

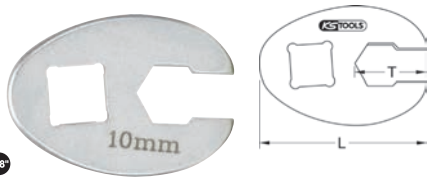
3/8"

			kg
918.3955	10 pcs	E5 - E6 - E7 - E8 - E10 - E11 - E12 - E14 - E16 - E18	0,31

3/8" OPEN-ENDED AND RING SPANNER

Crawfoot wrench, hexagonal

- 6 point
- Internal square drive
- For manual operation
- Matt finish
- Chrome vanadium



3/8"

	mm	L mm	T mm	g
913.3810	10,0	40,0	16,0	40
913.3811	11,0	37,0	13,0	40
913.3812	12,0	37,0	15,0	40
913.3813	13,0	36,0	14,0	40
913.3814	14,0	43,0	18,0	60
913.3815	15,0	42,0	20,0	60
913.3816	16,0	43,0	22,0	60
913.3817	17,0	48,0	23,0	80
913.3818	18,0	46,0	21,0	80
913.3819	19,0	44,0	22,0	80

Crawfoot wrench, hexagonal

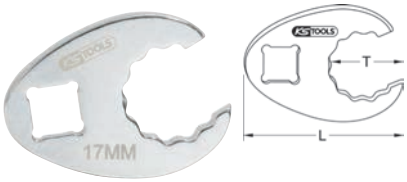
- 6 point
- Internal square drive
- For manual operation
- Matt finish
- Chrome vanadium

3/8"

			kg
913.3800	10 pcs	10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm	0,63

CHROME*plus*® 12 point crawfoot wrench

- 12 point
- Internal square drive
- For manual operation
- Mirror polished
- Chrome vanadium



3/8"

	○ mm	L mm	T mm	g
913.3910	10,0	36,0	13,0	40
913.3911	11,0	36,0	17,0	40
913.3912	12,0	37,0	14,0	40
913.3913	13,0	37,0	17,0	40
913.3914	14,0	41,0	19,0	60
913.3915	15,0	42,0	21,0	60
913.3916	16,0	43,0	22,0	60
913.3917	17,0	46,0	22,0	80
913.3919	19,0	46,0	23,0	80
913.3922	22,0	54,0	30,0	90

CHROME*plus*® 12 point crawfoot wrench set

- 12 point
- Internal square drive
- For manual operation
- Mirror polished
- Chrome vanadium
- Includes storage rail

3/8"

			kg
913.3900	10 pcs	10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 19 - 22 mm	0,50

Combination wrench, extra flat

- ideally suited for installing and removing screws and oil filter covers that are difficult to access when changing the oil filter
- 6 point
- Suitable for left and right side operation
- Internal square drive to DIN 3120 - ISO 1174
- For manual operation
- Phosphate finish

3/8"

	■	mm	g
150.9586	3/8"	24,0	80
150.9587	3/8"	27,0	85
150.9588	3/8"	32,0	97
150.9589	3/8"	36,0	103
150.9591	3/8"	38,0	107

Ring spanner set, extra flat

- ideally suited for installing and removing screws and oil filter covers that are difficult to access when changing the oil filter
- 6 point
- Suitable for left and right side operation
- Internal square drive to DIN 3120 - ISO 1174
- For manual operation
- Phosphate finish
- Includes storage rail

3/8"

150.9585	5 pcs	24 - 27 - 32 - 36 - 38 mm	507

Joint ring wrench socket set (open)

- Hexagon (open)
- Special construction allows for the removal and tightening of hard-to-reach screws
- Universal usage
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- For manual operation
- Mirror polished
- Chrome vanadium
- In durable plastic storage case

Application range: universally suited to all pipe screws on injection systems, brake systems etc.

3/8"

911.1710	7 pcs	Joint ring wrench socket set (open)	900

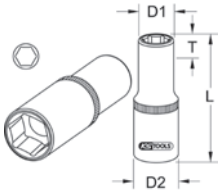
consists of:

911.1711	3/8" Joint ring wrench socket, 11 mm	60
911.1712	3/8" Joint ring wrench socket, 12 mm	70
911.1713	3/8" Joint ring wrench socket, 14 mm	80
911.1714	3/8" Joint ring wrench socket, 16 mm	140
911.1715	3/8" Joint ring wrench socket, 17 mm	150
911.1716	3/8" Joint ring wrench socket, 18 mm	160
911.1717	3/8" Joint ring wrench socket, 19 mm	170

3/8" SPARK PLUG SOCKETS

Spark plug socket

- 6 point
- DIN 3124 / ISO 3315
- FlankTraction profile
- Internal square to DIN 3120 / ISO 1174 with ball reception
- With rubber stop for holding the spark plugs
- Long execution
- For manual operation
- Matt finish
- Chrome vanadium

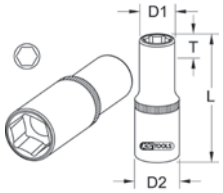


3/8"

	Profile	mm		D1 mm	D2 mm	L mm	
911.3804	○	16,0		22,0	19,0	65,0	94
911.3823	○	18,0		26,0	21,0	65,0	136
911.3805	○	21,0		28,0	22,0	65,0	140
911.3909	○		5/8"	22,0	19,0	65,0	94
911.3908	○		13/16"	28,0	22,0	65,0	136

CHROME*plus*® Spark plug socket

- 6 point
- DIN 3124 / ISO 3315
- FlankTraction profile
- Internal square to DIN 3120 / ISO 1174 with ball reception
- With rubber stop for holding the spark plugs
- Long execution
- For manual operation
- Mirror polished
- Chrome vanadium



3/8"

	Profile	mm		D1 mm	D2 mm	L mm	
918.3804	○	16,0		22,0	19,0	65,0	94
918.3805	○	18,0		26,0	23,0	64,0	94
918.3806	○	21,0		28,0	22,0	65,0	136
918.3992	○		5/8"	22,0	19,0	65,0	94
918.3991	○		13/16"	28,0	22,0	65,0	136

Special spark plug socket, thin-walled

- 12 point
- Double hexagon profile allows the pickup of hexagon and 12-point spark plugs
- Extra slim design
- For spark plugs with platinum electrodes for example Bosch 14 ZR
- With rubber stop for holding the spark plugs
- Internal square drive to DIN 3120 / ISO 1174
- For manual operation
- Matt finish
- Chrome vanadium

Application range: BMW E90 N 54 engine 335i from 2006, 1 Series (F20) 118i
Renault Modus, Twingo, Clio, Kangoo with 1.2 l 16V engine
Peugeot 207, 307
Citroën C4 1.4 and 1.6 l 16V engine, C5 2.0 l HPi engine
Mercedes Motor M156, engine M 276
Nissan Micra, Note
MINI 1.2 - 1.4 l 4 cyl from 2007
FORD 1.0 EcoBoost engine
Alfa 1.8 TBI engine
KIA

3/8"

	Profile	mm	D1 mm	D2 mm	L mm	
911.3990	○	14,0	20,0	18,0	63,0	75

CHROMEplus® Special spark plug socket, thin-walled

- 12 point
- Double hexagon profile allows the pickup of hexagon and 12-point spark plugs
- Extra slim design
- For spark plugs with platinum electrodes for example Bosch 14 ZR
- With rubber stop for holding the spark plugs
- Internal square drive to DIN 3120 / ISO 1174
- For manual operation
- Mirror polished
- Chrome vanadium

Application range: BMW E90 N 54 engine 335i from 2006, 1 Series (F20) 118i
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Mercedes Motor M156, engine M 276
Nissan Micra, Note
MINI 1.2 - 1.4 l 4 cyl from 2007
FORD 1.0 EcoBoost engine
Alfa 1.8 TBI engine
KIA

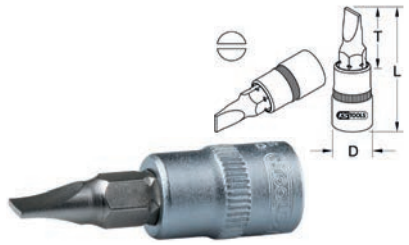
3/8"

	Profile	mm	D1 mm	D2 mm	L mm	
918.3990	○	14,0	20,0	18,0	65,0	75

3/8" BIT SOCKETS

Bit socket for slotted screws

- Slotted
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- with press-fitted nickel-plated bit
- For manual operation
- Matt finish
- Chrome vanadium



3/8"

	mm	D mm	L mm	T mm	g
911.3946	4,0	18,0	50,0	24,0	45
911.3947	5,0	18,0	50,0	24,0	45
911.3878	5,5	18,0	50,0	24,0	45
911.3879	6,5	18,0	50,0	24,0	45
911.3880	8,0	18,0	50,0	24,0	50
911.3949	10,0	18,0	50,0	24,0	50
911.3948	12,0	18,0	50,0	24,0	50

CHROME*plus*® bit socket for slotted screws

- Slotted
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- with press-fitted nickel-plated bit
- For manual operation
- Mirror polished
- Chrome vanadium

3/8"

	mm	D mm	L mm	T mm	g
918.3851	4,0	18,0	50,0	24,0	40
918.3852	5,0	18,0	50,0	24,0	40
918.3853	5,5	18,0	50,0	24,0	45
918.3854	6,5	18,0	50,0	24,0	45
918.3855	8,0	18,0	50,0	24,0	50
918.3986	10,0	18,0	50,0	24,0	50
918.3987	12,0	18,0	50,0	24,0	50

Bit socket for phillips head screws PH

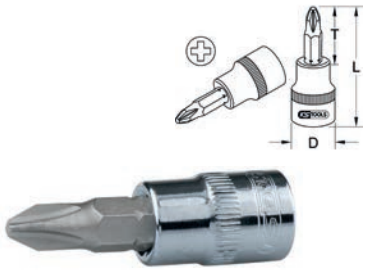
- PH
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- with press-fitted nickel-plated bit
- For manual operation
- Matt finish
- Chrome vanadium

3/8"

		D mm	L mm	T mm	g
911.3875	PH 1	18,0	50,0	24,0	35
911.3876	PH 2	18,0	50,0	24,0	45
911.3877	PH 3	18,0	50,0	24,0	50
911.2366	PH 4	18,0	50,0	24,0	55

CHROME*plus*® bit socket for Phillips screws PH

- PH
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- with press-fitted nickel-plated bit
- For manual operation
- Mirror polished
- Chrome vanadium

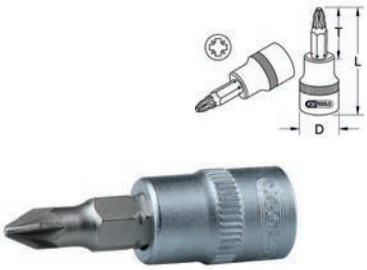


3/8"

		D mm	L mm	T mm	g
918.3868	PH 1	18,0	50,0	24,0	35
918.3869	PH 2	18,0	50,0	24,0	45
918.3891	PH 3	18,0	50,0	24,0	50
918.2366	PH 4	18,0	50,0	24,0	55

Bit socket for pozidriv screws PZ

- PZ
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- with press-fitted nickel-plated bit
- For manual operation
- Matt finish
- Chrome vanadium

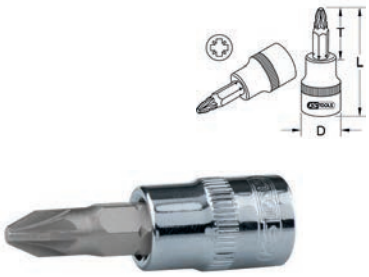


3/8"

		D mm	L mm	T mm	g
911.3881	PZ 1	18,0	50,0	24,0	40
911.3882	PZ 2	18,0	50,0	24,0	40
911.3883	PZ 3	18,0	50,0	24,0	55

CHROME*plus*® bit socket for pozidriv screws PZ

- PZ
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- with press-fitted nickel-plated bit
- For manual operation
- Mirror polished
- Chrome vanadium

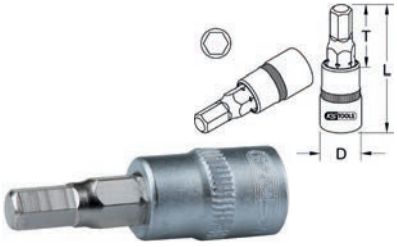


3/8"

		D mm	L mm	T mm	g
918.3877	PZ 1	18,0	50,0	24,0	40
918.3878	PZ 2	18,0	50,0	24,0	40
918.3892	PZ 3	18,0	50,0	24,0	55

Bit socket for hexagon screws

- Hexagon socket
- In accordance with DIN 7422
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- with press-fitted nickel-plated bit
- For manual operation
- Matt finish
- Chrome vanadium



3/8"

	mm		D mm	L mm	T mm	g
911.3863	3,0		18,0	50,0	24,0	40
911.3864	4,0		18,0	50,0	24,0	43
911.3865	5,0		18,0	50,0	24,0	44
911.3866	6,0		18,0	50,0	24,0	45
911.3867	7,0		18,0	50,0	24,0	46
911.3868	8,0		18,0	50,0	24,0	47
917.3857	10,0		18,0	50,0	24,0	60
911.3862	12,0		18,0	50,0	24,0	65
917.3962		5/32"	18,0	50,0	24,0	40
917.3967		1/8"	18,0	50,0	24,0	47
917.3963		3/16"	18,0	50,0	24,0	43
917.3968		7/32"	18,0	50,0	24,0	60
917.3964		1/4"	18,0	50,0	24,0	44
917.3965		5/16"	18,0	50,0	24,0	45
917.3966		3/8"	18,0	50,0	24,0	46

Bit socket set for hexagon key screws

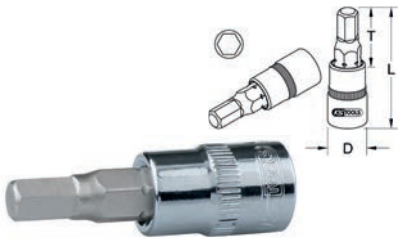
- Hexagon socket
- In accordance with DIN 7422
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Press fitted stud
- For manual operation
- Matt finish
- Chrome vanadium
- Includes storage rail

3/8"

			kg
911.3945	7 pcs	4 - 5 - 6 - 7 - 8 - 10 - 12 mm	0,31

CHROME*plus*® Bit socket for hexagon screws

- Hexagon socket
- In accordance with DIN 7422
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- with press-fitted nickel-plated bit
- For manual operation
- Mirror polished
- Chrome vanadium



3/8"

	mm		D mm	L mm	T mm	g
918.3861	3,0		18,0	50,0	24,0	40
918.3862	4,0		18,0	50,0	24,0	43
918.3863	5,0		18,0	50,0	24,0	44
918.3864	6,0		18,0	50,0	24,0	45
918.3865	7,0		18,0	50,0	24,0	46

	mm		D mm	L mm	T mm	g
918.3866	8,0		18,0	50,0	24,0	47
918.3867	10,0		18,0	50,0	24,0	60
918.3961	12,0		18,0	50,0	24,0	65
918.3967		1/8"	18,0	50,0	24,0	47
918.3962		5/32"	18,0	50,0	24,0	40
918.3963		3/16"	18,0	50,0	24,0	43
918.3968		7/32"	18,0	50,0	24,0	60
918.3964		1/4"	18,0	50,0	24,0	44
918.3965		5/16"	18,0	50,0	24,0	45
918.3966		3/8"	18,0	50,0	24,0	46

CHROME*plus*® bit socket set for hexagon screws

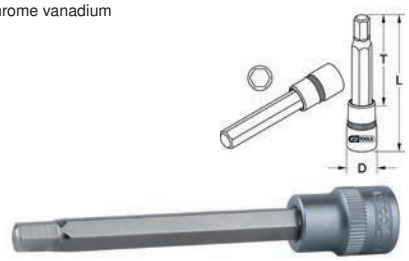
- Hexagon socket
- In accordance with DIN 7422
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- with press-fitted nickel-plated bit
- For manual operation
- Mirror polished
- Chrome vanadium
- Includes storage rail

3/8"

			kg
918.3921	7 pcs	4 - 5 - 6 - 7 - 8 - 10 - 12 mm	0,31

Bit socket for hexagon screws, long

- Hexagon socket
- In accordance with DIN 7422
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Long execution
- with press-fitted nickel-plated bit
- For manual operation
- Matt finish
- Chrome vanadium



3/8"

	mm	D mm	L mm	T mm	g
911.1561	4,0	18,0	100,0	74,0	50
911.1562	5,0	18,0	100,0	74,0	50
911.1563	6,0	18,0	100,0	74,0	50
911.1564	7,0	18,0	100,0	74,0	50
911.1565	8,0	18,0	100,0	74,0	60
911.1566	10,0	18,0	100,0	74,0	60
911.1567	12,0	18,0	100,0	74,0	60

Bit socket set for hexagon screws, long

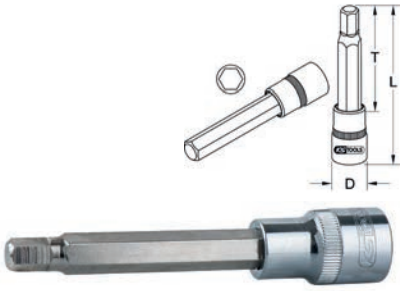
- Hexagon socket
- In accordance with DIN 7422
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Long execution
- with press-fitted nickel-plated bit
- For manual operation
- Matt finish
- Chrome vanadium
- Includes storage rail

3/8"

			kg
911.1560	7 pcs	4 - 5 - 6 - 7 - 8 - 10 - 12 mm	0,52

CHROME*plus*® bit socket for hexagon screws, long

- Hexagon socket
- In accordance with DIN 7422
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Long execution
- with press-fitted nickel-plated bit
- For manual operation
- Mirror polished
- Chrome vanadium



3/8"

	mm	D mm	L mm	T mm	g
918.3914	4,0	18,0	100,0	74,0	50
918.3915	5,0	18,0	100,0	74,0	50
918.3916	6,0	18,0	100,0	74,0	50
918.3917	7,0	18,0	100,0	74,0	50
918.3918	8,0	18,0	100,0	74,0	60
918.3919	10,0	18,0	100,0	74,0	60
918.3920	12,0	18,0	100,0	74,0	60

CHROME*plus*® bit socket set for hexagon screws, long

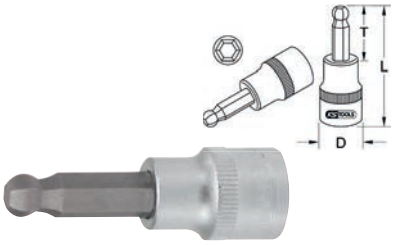
- Hexagon socket
- In accordance with DIN 7422
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Long execution
- with press-fitted nickel-plated bit
- For manual operation
- Mirror polished
- Chrome vanadium
- Includes storage rail

3/8"

			kg
918.3960	7 pcs	4 - 5 - 6 - 7 - 8 - 10 - 12 mm	0,52

Bit socket for hexagon screws with ball end

- Ball end hexagon socket
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- with press-fitted nickel-plated bit
- For manual operation
- Matt finish
- Chrome vanadium



3/8"

	mm	D mm	L mm	T mm	g
917.3860	3,0	18,0	50,0	24,0	45
917.3861	4,0	18,0	50,0	24,0	45
917.3862	5,0	18,0	50,0	24,0	45
917.2413	5,5	18,0	50,0	24,0	40
917.3863	6,0	18,0	50,0	24,0	45
917.3864	7,0	18,0	50,0	24,0	45
917.3868	8,0	18,0	50,0	24,0	45
917.3869	10,0	18,0	50,0	24,0	45

Bit socket set for hexagon-screws with ball end

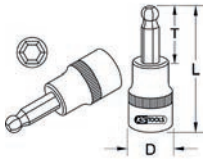
- Ball end hexagon socket
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- with press-fitted nickel-plated bit
- For manual operation
- Matt finish
- Chrome vanadium
- Includes storage rail

3/8"

			kg
911.3922	7 pcs	3 - 4 - 5 - 6 - 7 - 8 - 10 mm	0,41

CHROME*plus*® bit socket for hexagon screws with ball end

- Ball end hexagon socket
- In accordance with DIN 7422
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- with press-fitted nickel-plated bit
- For manual operation
- Mirror polished
- Chrome vanadium



3/8"

	mm	D mm	L mm	T mm	g
918.3870	3,0	18,0	50,0	24,0	34
918.3871	4,0	18,0	50,0	24,0	34
918.3872	5,0	18,0	50,0	24,0	35
918.2413	5,5	18,0	50,0	24,0	40
918.3873	6,0	18,0	50,0	24,0	35
918.3874	7,0	18,0	50,0	24,0	40
918.3875	8,0	18,0	50,0	24,0	40
918.3876	10,0	18,0	50,0	24,0	45

CHROMEplus® bit socket-set for hexagon screws with ball end

- Ball end hexagon socket
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- with press-fitted nickel-plated bit
- For manual operation
- Mirror polished
- Chrome vanadium
- Includes storage rail

3/8"

			kg
918.3772	7 pcs	3 - 4 - 5 - 6 - 7 - 8 - 10 mm	0,41

Bit socket for Torx screws

- Torx
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- with press-fitted nickel-plated bit
- For manual operation
- Matt finish
- Chrome vanadium

3/8"

		D mm	L mm	T mm	g	
911.3921	T9	18,0	50,0	24,0	42	
911.3887	T10	18,0	50,0	24,0	45	
911.3869	T15	18,0	50,0	24,0	45	
911.3870	T20	18,0	50,0	24,0	45	
911.3871	T25	18,0	50,0	24,0	45	
911.3872	T27	18,0	50,0	24,0	45	
911.3873	T30	18,0	50,0	24,0	45	
911.3874	T40	18,0	50,0	24,0	45	
911.3885	T45	18,0	50,0	24,0	50	
911.3884	T50	18,0	50,0	24,0	70	
911.3888	T55	18,0	50,0	24,0	70	
911.3889	T60	18,0	50,0	24,0	70	

Bit socket set for Torx screws

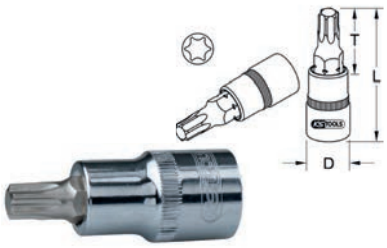
- Torx
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- with press-fitted nickel-plated bit
- For manual operation
- Matt finish
- Chrome vanadium
- Includes storage rail

3/8"

			kg	
911.3935	10 pcs	T10 - T15 - T20 - T25 - T27 - T30 - T40 - T45 - T50 - T55	0,41	

CHROME*plus*® bit socket for Torx screws

- Torx
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- with press-fitted nickel-plated bit
- For manual operation
- Mirror polished
- Chrome vanadium



3/8"

		D mm	L mm	T mm	g	
918.3768	T9	18,0	50,0	24,0	42	
918.3879	T10	18,0	50,0	24,0	45	
918.3880	T15	18,0	50,0	24,0	45	
918.3881	T20	18,0	50,0	24,0	45	
918.3882	T25	18,0	50,0	24,0	45	
918.3883	T27	18,0	50,0	24,0	45	
918.3884	T30	18,0	50,0	24,0	45	
918.3885	T40	18,0	50,0	24,0	35	
918.3886	T45	18,0	50,0	24,0	50	
918.3887	T50	18,0	50,0	24,0	70	
918.3888	T55	18,0	50,0	24,0	70	
918.3889	T60	18,0	50,0	24,0	70	

CHROME*plus*® bit socket set for Torx screws

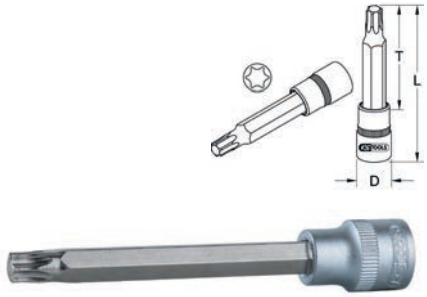
- Torx
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- with press-fitted nickel-plated bit
- For manual operation
- Mirror polished
- Chrome vanadium
- Includes storage rail

3/8"

			kg	
918.3939	10 pcs	T10 - T15 - T20 - T25 - T27 - T30 - T40 - T45 - T50 - T55	0,41	

Bit socket for Torx screws, long

- Torx
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Long execution
- with press-fitted nickel-plated bit
- For manual operation
- Matt finish
- Chrome vanadium



3/8"

		D mm	L mm	T mm	g	
911.1551	T20	18,0	100,0	74,0	50	
911.1552	T25	18,0	100,0	74,0	50	
911.1553	T27	18,0	100,0	74,0	50	
911.1554	T30	18,0	100,0	74,0	60	
911.1555	T40	18,0	100,0	74,0	60	
911.1556	T45	18,0	100,0	74,0	60	
911.1557	T50	18,0	100,0	74,0	60	
911.1558	T55	18,0	100,0	74,0	80	
911.1559	T60	18,0	100,0	74,0	100	

Bit socket set for Torx screws, long

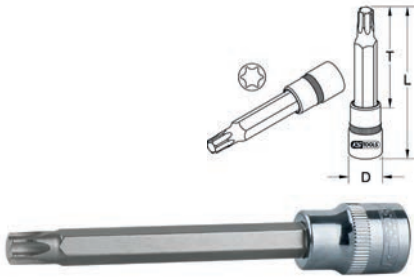
- Torx
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Long execution
- with press-fitted nickel-plated bit
- For manual operation
- Matt finish
- Chrome vanadium
- Includes storage rail

3/8"

			kg	
911.1550	9 pcs	T20 - T25 - T27 - T30 - T40 - T45 - T50 - T55 - T60	0,65	

CHROME*plus*® bit socket for Torx screws, long

- Torx
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Long execution
- with press-fitted nickel-plated bit
- For manual operation
- Mirror polished
- Chrome vanadium



3/8"

		D mm	L mm	T mm	g	
918.4011	T20	18,0	100,0	74,0	50	
918.4012	T25	18,0	100,0	74,0	50	
918.4013	T27	18,0	100,0	74,0	50	
918.4014	T30	18,0	100,0	74,0	60	
918.4015	T40	18,0	100,0	74,0	60	
918.4016	T45	18,0	100,0	74,0	60	
918.4017	T50	18,0	100,0	74,0	60	
918.4018	T55	18,0	100,0	74,0	80	
918.4019	T60	18,0	100,0	74,0	100	

CHROME*plus*® bit socket set for Torx screws, long

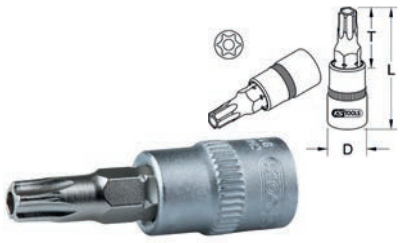
- Torx
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Long execution
- with press-fitted nickel-plated bit
- For manual operation
- Mirror polished
- Chrome vanadium
- Includes storage rail

3/8"

			kg	
918.1550	9 pcs	T20 - T25 - T27 - T30 - T40 - T45 - T50 - T55 - T60	0,65	

Bit socket for Torx tamperproof screws

- For tamperproof Torx
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- with press-fitted nickel-plated bit
- For manual operation
- Matt finish
- Chrome vanadium



3/8"

		D mm	L mm	T mm	g	
911.3960	TB10	18,0	47,0	24,0	33	
911.3961	TB15	18,0	47,0	24,0	34	
911.3962	TB20	18,0	47,0	24,0	34	
911.3963	TB25	18,0	47,0	24,0	34	

		D mm	L mm	T mm	g
911.3964	TB27	18,0	46,0	24,0	34
911.3965	TB30	18,0	64,0	24,0	35
911.3966	TB40	18,0	64,0	24,0	35
911.3967	TB45	18,0	64,0	24,0	38
911.3968	TB50	18,0	77,0	24,0	40
911.3969	TB55	18,0	77,0	24,0	45
911.3970	TB60	18,0	50,0	24,0	48

Bit socket set for Torx tamperproof screws

- For tamperproof Torx
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- with press-fitted nickel-plated bit
- For manual operation
- Matt finish
- Chrome vanadium
- Includes storage rail

3/8"

			kg
911.3940	10 pcs	TB10 - TB15 - TB20 - TB25 - TB27 - TB30 - TB40 - TB45 - TB50 - TB55	0,40

CHROME*plus*® bit socket for Torx tamperproof screws

- For tamperproof Torx
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- with press-fitted nickel-plated bit
- For manual operation
- Mirror polished
- Chrome vanadium

3/8"

		D mm	L mm	T mm	g
918.3940	TB10	18,0	50,0	24,0	47
918.3941	TB15	18,0	50,0	24,0	47
918.3942	TB20	18,0	50,0	24,0	47
918.3943	TB25	18,0	50,0	24,0	47
918.3944	TB27	18,0	50,0	24,0	34
918.3945	TB30	18,0	50,0	24,0	34
918.3946	TB40	18,0	50,0	24,0	64
918.3947	TB45	18,0	50,0	24,0	39
918.3948	TB50	18,0	50,0	24,0	77
918.3949	TB55	18,0	50,0	24,0	77
918.3950	TB60	18,0	50,0	24,0	77

CHROME*plus*® bit socket set for Torx tamperproof screws

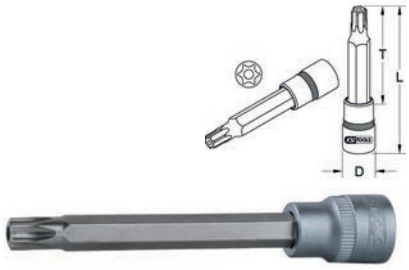
- For tamperproof Torx
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- with press-fitted nickel-plated bit
- For manual operation
- Mirror polished
- Chrome vanadium
- Includes storage rail

3/8"

			kg
918.3970	10 pcs	TB10 - TB15 - TB20 - TB25 - TB27 - TB30 - TB40 - TB45 - TB50 - TB55	0,40

Bit socket for Torx tamperproof screws, long

- For tamperproof Torx
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Long execution
- with press-fitted nickel-plated bit
- For manual operation
- Matt finish
- Chrome vanadium



3/8"

		D mm	L mm	T mm	g
911.3971	TB20	18,0	100,0	74,0	50
911.3972	TB25	18,0	100,0	74,0	50
911.3973	TB27	18,0	100,0	74,0	50
911.3974	TB30	18,0	100,0	74,0	60
911.3975	TB40	18,0	100,0	74,0	60
911.3976	TB45	18,0	100,0	74,0	60
911.3977	TB50	18,0	100,0	74,0	60
911.3978	TB55	18,0	100,0	74,0	80
911.3979	TB60	18,0	100,0	74,0	100

Bit socket set for Torx tamperproof screws, long

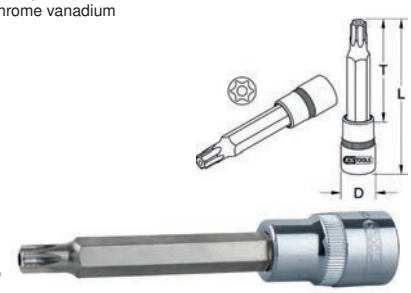
- For tamperproof Torx
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Long execution
- with press-fitted nickel-plated bit
- For manual operation
- Matt finish
- Chrome vanadium
- Includes storage rail

3/8"

			kg
911.3980	9 pcs	TB20 - TB25 - TB27 - TB30 - TB40 - TB45 - TB50 - TB55 - TB60	0,65

CHROME*plus*® bit socket for Torx tamperproof screws, long

- For tamperproof Torx
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Long execution
- with press-fitted nickel-plated bit
- For manual operation
- Mirror polished
- Chrome vanadium



3/8"

		D mm	L mm	T mm	g
918.4001	TB20	18,0	100,0	74,0	50
918.4002	TB25	18,0	100,0	74,0	50
918.4003	TB27	18,0	100,0	74,0	50
918.4004	TB30	18,0	100,0	74,0	60
918.4005	TB40	18,0	100,0	74,0	60
918.4006	TB45	18,0	100,0	74,0	60
918.4007	TB50	18,0	100,0	74,0	60
918.4008	TB55	18,0	100,0	74,0	80
918.4009	TB60	18,0	100,0	74,0	100

CHROME*plus*® bit socket set for Torx tamperproof screws, long

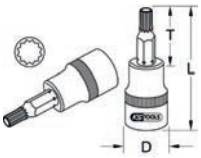
- For tamperproof Torx
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Long execution
- with press-fitted nickel-plated bit
- For manual operation
- Mirror polished
- Chrome vanadium
- Includes storage rail

3/8"

			kg
918.3969	9 pcs	TB20 - TB25 - TB27 - TB30 - TB40 - TB45 - TB50 - TB55 - TB60	0,65

Bit socket for XZN® screws

- Spline (XZN®)
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- with press-fitted nickel-plated bit
- For manual operation
- Matt finish
- Chrome vanadium



3/8"

		D mm	L mm	T mm	g
911.3918	M4	18,0	50,0	24,0	43
911.3915	M5	18,0	50,0	24,0	44
911.3916	M6	18,0	50,0	24,0	45
911.3917	M8	18,0	50,0	24,0	47
911.3920	M10	18,0	50,0	24,0	48

Bit socket for spline (XZN®) screws

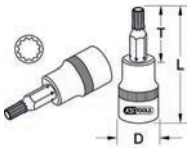
- Spline (XZN®)
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- With press fitted insert bit
- For manual operation
- Matt finish
- Chrome vanadium
- Includes storage rail

3/8"

			g
911.3923	5 pcs	M4 - M5 - M6 - M8 - M10	150

CHROME*plus*® bit socket for Spline(XZN®) screws

- Spline (XZN®)
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- with press-fitted nickel-plated bit
- For manual operation
- Mirror polished
- Chrome vanadium



3/8"

		D mm	L mm	T mm	g
918.3856	M4	18,0	50,0	24,0	43
918.3857	M5	18,0	50,0	24,0	44
918.3858	M6	18,0	50,0	24,0	45
918.3859	M8	18,0	50,0	24,0	47
918.3860	M10	18,0	50,0	24,0	48

CHROMEplus® bit socket set for Spline(XZN®) screws

- Spline (XZN®)
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- with press-fitted nickel-plated bit
- For manual operation
- Mirror polished
- Chrome vanadium
- Includes storage rail

3/8"

			kg
918.3773	5 pcs	M4 - M5 - M6 - M8 - M10	0,15

3/8" ADAPTERS

Bit adaptor socket

- Internal square to DIN 3120 / ISO 1174 with ball reception
- For 1/4" bits with external hexagon drive to DIN 3126 / ISO 1173
- For manual operation
- Matt finish
- Chrome vanadium

3/8"

	□	○	L mm	D1 mm	D2 mm	T mm	g
911.3894	3/8"	1/4"	25,0	12,0	17,0	11,0	20
911.4328	3/8"	5/16"	30,0	13,0	17,0	14,0	30

CHROME*plus*® bit adaptor socket

- Internal square to DIN 3120 / ISO 1174 with ball reception
- For 1/4" bits with external hexagon drive to DIN 3126 / ISO 1173
- For manual operation
- Mirror polished
- Chrome vanadium

3/8"

	□	○	L mm	D1 mm	D2 mm	T mm	g
918.3983	3/8"	1/4"	25,0	12,0	17,0	11,0	20
918.3984	3/8"	5/16"	30,0	13,0	17,0	14,0	30
918.3985	3/8"	10 mm	30,0	17,0	17,0	11,0	30

Bit adaptor socket with clamping ring

- Clamping ring
- Internal square to DIN 3120 / ISO 1174 with ball reception
- For 10 mm Bits with external hexagon drive to DIN 3126 / ISO 1173
- For manual operation
- Matt finish
- Chrome vanadium

3/8"

	□	○	L mm	D1 mm	g
911.4331	3/8	5/16"	28,0	13,0	25
911.4311	3/8	10 mm	30,0	17,0	30

Adaptor

- DIN 3123 / ISO 3316
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Internal square to DIN 3120 / ISO 1174 with ball reception
- For manual operation
- Matt finish
- Chrome vanadium

3/8"

	□	■	L mm	g
911.3892	3/8"	1/2"	30,0	60

CHROME*plus*® adaptor

- DIN 3123 / ISO 3316
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Internal square to DIN 3120 / ISO 1174 with ball reception
- For manual operation
- Mirror polished
- Chrome vanadium

3/8"

	□	■	L mm	g
918.3931	3/8"	1/2"	30,0	60

Reducing adaptor

- DIN 3123 / ISO 3316
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Internal square to DIN 3120 / ISO 1174 with ball reception
- For manual operation
- Matt finish
- Chrome vanadium

3/8"

	□	■	L mm	g
911.3897	3/8"	1/4"	30,0	60

CHROME*plus*® reducing adaptor

- DIN 3123 / ISO 3316
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Internal square to DIN 3120 / ISO 1174 with ball reception
- For manual operation
- Mirror polished
- Chrome vanadium

3/8"

	□	■	L mm	g
918.3930	3/8"	1/4"	30,0	60

Adaptor and reducing adaptor set

- DIN 3123 / ISO 3316
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Internal square to DIN 3120 / ISO 1174 with ball reception
- For manual operation
- Matt finish
- Chrome vanadium
- In durable plastic storage case

1/4" 3/8" 1/2"

			kg	
911.0106	6 pcs	1/4" x 3/8" - 3/8" x 1/4" - 3/8" x 1/2" - 1/2" x 3/8" - 1/2" x 3/4" - 3/4" x 1/2"	0,66	

CHROME*plus*® adaptor and reducing adaptor set

- DIN 3123 / ISO 3316
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Internal square to DIN 3120 / ISO 1174 with ball reception
- For manual operation
- Mirror polished
- Chrome vanadium
- In durable plastic storage case

1/4" 3/8" 1/2"

			kg	
918.0106	6 pcs	1/4" x 3/8" - 3/8" x 1/4" - 3/8" x 1/2" - 1/2" x 3/8" - 1/2" x 3/4" - 3/4" x 1/2"	0,66	

Adaptor and reducing adaptor set

- DIN 3123 / ISO 3316
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Internal square to DIN 3120 / ISO 1174 with ball reception
- For manual operation
- Matt finish
- Chrome vanadium
- In durable plastic storage case

1/4" 3/8" 1/2" 3/4"

			g	
917.0707	7 pcs	Adaptor and reducing adaptor set	660	

consists of:

		g	
514.1113	1/4" Auto slimlock magnetic quick release bit holder, 65mm	30	
911.1494	Adaptor, 1/4"Mx3/8"F	30	
911.3892	Adaptor,3/8" Fx1/2" M	60	
911.1234	Adaptor, 1/2"F x 3/4"M	140	
911.3897	Reducing adaptor, 3/8"Fx1/4"M	60	
911.1233	Reducing adaptor, 1/2"F x 3/8"M	50	
911.3412	Reducing adaptor 3/4"F x 1/2"M	195	

CHROME*plus*® adaptor and reducing adaptor set

- DIN 3123 / ISO 3316
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Internal square to DIN 3120 / ISO 1174 with ball reception
- For manual operation
- Mirror polished
- Chrome vanadium
- In durable plastic storage case

1/4" 3/8" 1/2" 3/4"

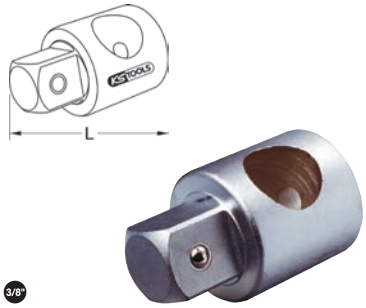
			g	
918.0707	7 pcs	CHROME*plus*® adaptor and reducing adaptor set	0,66	

consists of:

		g	
514.1113	1/4" Auto slimlock magnetic quick release bit holder, 65mm	30	
918.1753	1/2" CHROMEplus Reducing adaptor, 1/2"F x 3/8"M	50	
918.1501	1/4" CHROMEplus Adaptor, 1/4"Fx3/8"M	30	
918.1754	1/2" CHROMEplus Adaptor, 1/2"Fx3/4"M	140	
918.3930	3/8" CHROMEplus Reducing adaptor, 3/8"F x 1/4"M	60	
918.3931	3/8" CHROMEplus Adaptor, 3/8"Fx1/2"M	60	
918.3412	CHROMEplus Reducing adaptor 3/4"F x 1/2"M	195	

Sliding adaptor and reducing adaptor

- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Internal square to DIN 3120 / ISO 1174 with ball reception
- To the use with extensions
- Also usably as adaptors and/or reducing adaptors Reducing adaptor
- For manual operation
- Matt finish
- Chrome vanadium



3/8"

	□	■	L mm	g	
911.1207	3/8"	1/2"	40,0	60	
911.3826	1/2"	3/8"	40,0	60	

CHROME*plus*® sliding / adaptor and reducing adaptor

- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Internal square to DIN 3120 / ISO 1174 with ball reception
- To the use with extensions
- Also usably as adaptors and/or reducing adaptors Reducing adaptor
- For manual operation
- Matt finish
- Chrome vanadium

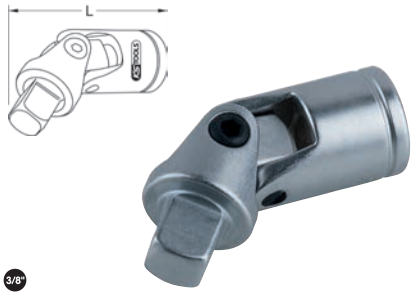
3/8"

	□	■	L mm	g	
918.3807	1/2"	3/8"	40,0	60	
918.1449	1/4"	3/8"	40,0	60	

3/8" UNIVERSAL JOINTS

Universal joint

- DIN 3122 / ISO 3315
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Flexible joint
- For manual operation
- Matt finish
- Chrome vanadium



3/8"

	□	■	L mm	g	
911.3850	3/8"	3/8"	55,0	80	

CHROME*plus*® universal joint

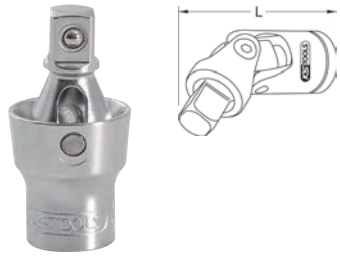
- DIN 3123 / ISO 3316
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Flexible joint
- For manual operation
- Mirror polished
- Chrome vanadium

3/8"

	□	■	L mm	g	
918.3988	3/8"	3/8"	55,0	80	

Power universal ball joint

- Ideal for use with electric screwdriver
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Very low running rotation
- New joint construction
- Outstanding use of angles up to 45°
- Very breakage resistant
- Can be used by hand or with an electric screwdriver
- Matt finish
- Chrome vanadium



3/8"

	□	■	L mm	g
917.3850	3/8"	3/8"	50,0	80

CHROME*plus*® power universal joint

- Ideal for use with electric screwdriver
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Very low running rotation
- New joint construction
- Outstanding use of angles up to 45°
- Very breakage resistant
- Can be used by hand or with an electric screwdriver
- Mirror polished
- Chrome vanadium

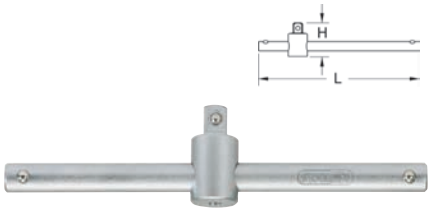
3/8"

	□	■	L mm	g
919.3850	3/8"	3/8"	50,0	80

3/8" T-HANDLES

Sliding T-handle

- DIN 3122 / ISO 3315
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- For manual operation
- Matt finish
- Chrome vanadium

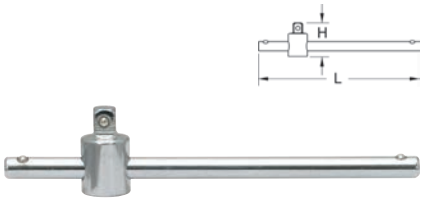


3/8"

	■	H mm	L mm	g
911.3855	3/8"	40,0	160,0	160

CHROME*plus*® sliding T handle

- DIN 3122 / ISO 3315
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- For manual operation
- Mirror polished
- Chrome vanadium



3/8"

	■	H mm	L mm	g
918.3845	3/8"	40,0	160,0	160

3/8" EXTENSIONS

Extension

- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Internal square to DIN 3120 / ISO 1174 with ball reception
- For manual operation
- Matt finish
- Chrome vanadium

3/8"

	L mm	g
911.3852	45,0	40
911.3801	75,0	50
911.4882	125,0	110
911.3802	150,0	160
911.3856	200,0	200
911.3803	250,0	240
911.4883	300,0	270
911.4884	500,0	420
911.4885	700,0	620

Extension set

- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Hexagon drive
- For manual operation
- Matt finish
- Chrome vanadium

1/4" 3/8" 1/2"

			kg
911.0007	9 pcs	Extension set	1,22
3 x		1/4" : 50 - 100 - 250 mm	
4 x		3/8" : 45 - 75 - 150 - 200 mm	
2 x		1/2" : 125 - 250 mm	

CHROME*plus*® extension

- DIN 3123 / ISO 3316
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Hexagon drive
- For manual operation
- Mirror polished
- Chrome vanadium

3/8"

	L mm	g
918.3769	45,0	40
918.3896	75,0	120
918.3897	150,0	150
918.3771	200,0	190
918.3898	250,0	240

CHROME*plus*® Extension set

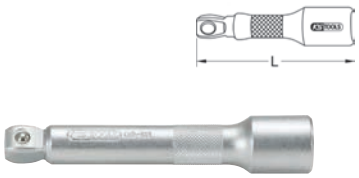
- DIN 3123 / ISO 3316
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Internal square to DIN 3120 / ISO 1174 with ball reception
- For manual operation
- Mirror polished
- Chrome vanadium

1/4" 3/8" 1/2"

			kg
918.0007	9 pcs	CHROME*plus*® Extension set	1,22
3 x		1/4" : 50 - 100 - 250 mm	
4 x		3/8" : 45 - 75 - 150 - 200 mm	
2 x		1/2" : 125 - 250 mm	

Wobble extension

- Internal square to DIN 3120 / ISO 1174 with ball reception
- Wobble extension with ball lock
- 8° tilt angle to each side
- For manual operation
- Matt finish
- Chrome vanadium



3/8"

	L mm	g
911.3910	45,0	40
911.3911	75,0	80
911.3912	150,0	140
911.3913	200,0	190
911.3914	250,0	240

Wobble extension set

- Internal square to DIN 3120 / ISO 1174 with ball reception
- Wobble extension with ball lock
- 8° tilt angle to each side
- For manual operation
- Matt finish
- Chrome vanadium

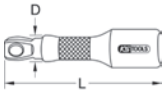
1/4" 3/8" 1/2"

			kg
911.0009	9 pcs	Wobble extension set	1,22

3 x		1/4" : 50 - 100 - 250 mm
4 x		3/8" : 45 - 75 - 150 - 200 mm
2 x		1/2" : 125 - 250 mm

CHROME*plus*® wobble extension

- Internal square to DIN 3120 / ISO 1174 with ball reception
- Wobble extension with ball lock
- 8° tilt angle to each side
- For manual operation
- Mirror polished
- Chrome vanadium



3/8"

	L mm	g
918.3935	45,0	120
918.3801	75,0	150
918.3802	150,0	145
918.3958	225,0	210
918.3803	250,0	240

CHROME*plus*® Wobble extension set

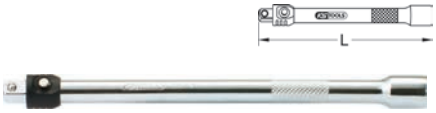
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Wobble extension with ball lock
- 8° tilt angle to each side
- For manual operation
- Mirror polished
- Chrome vanadium

1/4" 3/8" 1/2"

			kg
918.0009	9 pcs	CHROME*plus*® Wobble extension set	1,22

CHROME*plus*® extension with interlock

- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Interlocking mechanism against accidental loosening
- For manual operation
- Mirror polished
- Chrome vanadium



3/8"

	L mm	g
919.3801	75,0	70
919.3804	150,0	140
919.3806	250,0	250

CHROME*plus*® extension set with interlock

- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Interlocking mechanism against accidental loosening
- For manual operation
- Mirror polished
- Chrome vanadium

3/8"

		kg
919.0383	3 pcs	75 - 150 - 250 mm	0,56

CHROME*plus*® Extension set with interlock

- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Interlocking mechanism against accidental loosening
- For manual operation
- Mirror polished
- Chrome vanadium

1/4" 3/8" 1/2"

			kg
919.0007	7 pcs	CHROME*plus*® Extension set with interlock	1,24

2 x		1/4" : 100 - 150 mm
3 x		3/8" : 75 - 150 - 250 mm
2 x		1/2" : 125 - 250 mm

3/8" MANUAL DRIVE TOOLS

Flexi head drive handle

- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Ideal for difficult to access areas
- Protects ratchet and torque wrenches from overloading
- Burnished head
- Matt finish
- Chrome vanadium

3/8"

	Length mm	g
911.3919	210,0	210

CHROME*plus*® Flexi head drive handle

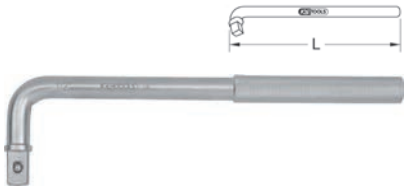
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Ideal for difficult to access areas
- Protects ratchet and torque wrenches from overloading
- Burnished head
- Mirror polished
- Chrome vanadium

3/8"

	L mm	head,spare	g
918.3700	260,0	918.3826-1	390
918.3826	400,0	918.3826-1	542
918.3701	450,0	918.3826-1	615

Offset handle

- DIN 3122 / ISO 3315
- Square drive to DIN 3120 / ISO 1174 with ball lock
- For manual operation
- Matt finish
- Chrome vanadium



3/8"

	L mm	g
911.3925	180,0	198

Crank handle

- DIN 3122 / ISO 3315
- Square drive to DIN 3120 / ISO 1174 with ball lock
- For manual operation
- Matt finish
- Chrome vanadium

3/8"

	L mm	g
911.3950	190,0	482

3/8" RATCHETS

Hand reversible ratchet

- According to DIN 3122 / ISO 3315
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Reversible
- Easy and handy to use
- Extremely slim head
- Fine gearing 72 teeth ratchet mechanism
- Ergonomic 2 component handle
- Chrome vanadium

3/8"

	■	Tooth	g
914.3810	3/8"	72	55

Mini hand reversible ratchet set

- According to DIN 3122 / ISO 3315
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Reversible
- Easy and handy to use
- Extremely slim head
- Fine gearing 72 teeth ratchet mechanism
- Ergonomic 2 component handle
- Chrome vanadium

1/4" 3/8" 1/2"

			g
914.1215	3 pcs	Mini hand reversible ratchet set	165

consists of:

		g
914.1410	Hand reversible ratchet, 1/4", 72 teeth	50
914.3810	Hand reversible ratchet, 3/8", 72 teeth	55
914.1210	Hand reversible ratchet, 1/2", 72 teeth	60

Reversible ratchet

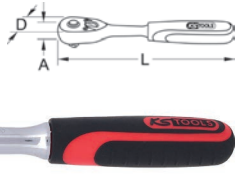
- According to DIN 3122 / ISO 3315
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Reversible
- Fine gearing 72 teeth ratchet mechanism
- With ejection mechanism on the ratchet head
- Ergonomic 2 component handle
- Recessed reverse lever
- Matt finish
- Chrome vanadium

3/8"

	A mm	D mm	L mm	Repair set	g
914.3890	17,0	32,0	200,0	914.3897	130

CHROME*plus*® reversible ratchet

- According to DIN 3122 / ISO 3315
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Reversible
- Fine gearing 72 teeth ratchet mechanism
- With ejection mechanism on the ratchet head
- Two component handle with a soft zone, is ergonomic in design and comfortable in the hand
- Lightweight recessed reverse lever
- Mirror polished
- Chrome vanadium

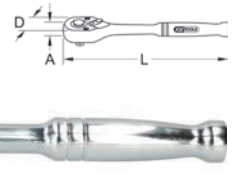


3/8"

	A mm	D mm	L mm	Repair set	g
918.3890	17,0	32,0	200,0	914.3897	130

CHROME*plus*® reversible ratchet

- According to DIN 3122 / ISO 3315
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Reversible
- Fine gearing 72 teeth ratchet mechanism
- With ejection mechanism on the ratchet head
- Lightweight recessed reverse lever
- Mirror polished
- Chrome vanadium



3/8"

	A mm	D mm	L mm	Repair set	g
918.3993	17,0	31,0	180,0	914.3897	540

SlimPOWER reversible ratchet

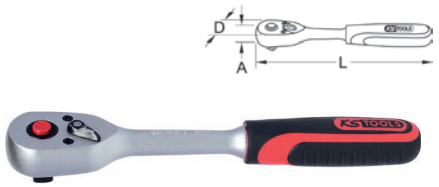
- According to DIN 3122 / ISO 3315
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Reversible
- Very robust as a result of double pin technology
- Extremely slim head
- Fine gearing 72 teeth ratchet mechanism
- With ejection mechanism on the ratchet head
- Ergonomic 2-component handle with a soft zone
- Mirror polished
- Chrome vanadium

3/8"

	A mm	D mm	L mm	Repair set	g
920.3890	14,0	26,0	190,0	920.3890-2	267

Reversible ratchet

- DIN 3122 / ISO 3315
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Reversible
- Exact gearing 45 teeth ratchet mechanism
- With ejection mechanism on the ratchet head
- Two component handle with a soft zone, is ergonomic in design and comfortable in the hand
- Matt finish
- Chrome vanadium

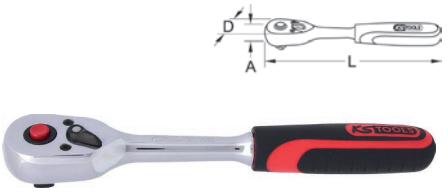


3/8"

	A mm	D mm	L mm	Repair set	g
911.3800	16,0	32,0	200,0	911.3899	310

CHROME*plus*® reversible ratchet

- DIN 3122 / ISO 3315
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Reversible
- Exact gearing 45 teeth ratchet mechanism
- With ejection mechanism on the ratchet head
- Two component handle with a soft zone, is ergonomic in design and comfortable in the hand
- Mirror polished
- Chrome vanadium

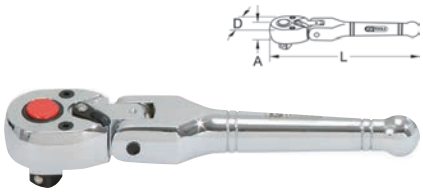


3/8"

	A mm	D mm	L mm	Repair set	g
918.3800	16,0	32,0	200,0	911.3899	310

CHROME*plus*® flexible head reversible ratchet

- According to DIN 3122 / ISO 3315
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- 180° revolving head
- Reversible
- Fine gearing 72 teeth ratchet mechanism
- With ejection mechanism on the ratchet head
- Recessed reverse lever
- Mirror polished
- Chrome vanadium

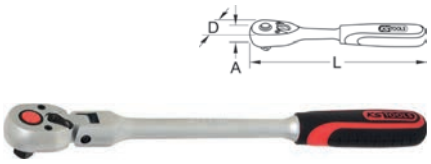


3/8"

	A mm	D mm	L mm	Repair set	g
918.3997	16,0	31,0	150,0	914.3897	170

Flexible head reversible ratchet

- According to DIN 3122 / ISO 3315
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- 180° revolving head
- Reversible
- Exact gearing 72 teeth ratchet mechanism
- With ejection mechanism on the ratchet head
- Ergonomic 2 component handle
- Recessed reverse lever
- Matt finish
- Chrome vanadium

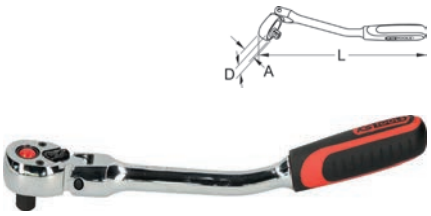


3/8"

	A mm	D mm	L mm	Repair set	g
914.3896	16,0	30,0	275,0	914.3897	260

CHROME*plus*® flexible head reversible ratchet with cranked shaft

- According to DIN 3122 / ISO 3315
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- 180° revolving head
- Cranked shaft
- Reversible
- Fine gearing 72 teeth ratchet mechanism
- With ejection mechanism on the ratchet head
- Ergonomic 2 component handle
- Lightweight recessed reverse lever
- Mirror polished
- Chrome vanadium



3/8"

	A mm	D mm	L mm	Repair set	g
918.3895	16,0	30,0	275,0	914.3895	230

SlimPOWER telescopic-joint changeover ratchet

- According to DIN 3122 / ISO 3315
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Reversible
- Very robust as a result of double pin technology
- 180° revolving head
- Fine gearing 72 teeth ratchet mechanism
- Adjustable in 6 steps
- With ejection mechanism on the ratchet head
- Ergonomic 2-component handle with a soft zone
- Matt finish
- Chrome vanadium

3/8"

	A mm	D mm	L mm	Repair set	g
914.3820	14,0	28,0	258,0-373,0	914.3820-1	390,0

3/8" SET ASSORTMENTS

CHROME*plus*® spark plug service set

- Mirror polished
- Chrome vanadium
- In durable plastic storage case

3/8"

			kg
918.0607	7 pcs	CHROME*plus*® spark plug service set	1,44
4 x		14 - 16 - 18 - 21 mm	
1 x		150 mm	
1 x		150 mm	
1 x		270 mm	

Socket set

- 12 point
- FlankTraction profile
- Matt finish
- Chrome vanadium
- In durable plastic storage case

3/8"

			kg
911.3995	22 pcs	Socket set	2,00
15 x		8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 17 - 18 - 19 - 21 - 22 - 24 mm	
1 x		3/8"	
2 x		75 - 150 mm	
1 x		3/8"	
2 x		16 - 21 mm	
1 x		1/2"F x 3/8"M	

Socket set

- 6 point
- FlankTraction profile
- Matt finish
- Chrome vanadium
- In durable plastic storage case

3/8"

			kg
911.0626	26 pcs	Socket set	2,70
18 x		6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 24 mm	
2 x		16 - 21 mm	
3 x		50 - 75 - 200 mm	
1 x		3/8"	
1 x		3/8"	
1 x		200 mm	

CHROME*plus*® socket set

- 6 point
- FlankTraction profile
- Mirror polished
- Chrome vanadium
- In durable plastic storage case

3/8"

			kg
918.0627	27 pcs	CHROME*plus*® socket set	2,40
13 x		8 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 22 - 24 mm	
10 x		10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm	
2 x		75 - 150 mm	
1 x		3/8“	
1 x		195 mm	

CHROME*plus*® socket set

- 6 point
- FlankTraction profile
- Mirror polished
- Chrome vanadium
- In durable plastic storage case

3/8"

			kg
958.0627	27 pcs	CHROME*plus*® socket set	2,64
13 x		8 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 18 - 19 - 22 - 24 mm	
10 x		10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 18 - 19 mm	
2 x		75 - 150 mm	
1 x		3/8“	
1 x		190 mm	

CHROME*plus*® Socket set

- Imperial sizes
- 6 point
- FlankTraction profile
- Mirror polished
- Chrome vanadium
- In durable plastic storage case

3/8"

			kg
918.0846	46 pcs	CHROME*plus*® Socket set	1,13
11 x		1/4“ - 5/16“ - 3/8“ - 7/16“ - 1/2“ - 9/16“ 5/8“ - 11/16“ - 3/4“ - 13/16“ - 7/8“	
6 x		3/8“ - 7/16“ - 1/2“ - 9/16“ - 11/16“ 3/4“	
2 x		5/8“ - 13/16“	
7 x		1/8“ - 5/32“ - 3/16“ - 7/32“ - 1/4“ 5/16“ - 3/8“	
10 x		T10 - T15 - T20 - T25 - T27 - T30 T40 - T45 - T50 - T55	
5 x		M4 - M5 - M6 - M8 - M10	
2 x		75 - 150 mm	
1 x		3/8“	
1 x		160 mm	
1 x		195 mm	

Socket set

- 6 point
- FlankTraction profile
- Matt finish
- Chrome vanadium
- In durable plastic storage case

3/8"

			kg
951.0627	27 pcs	Socket set	2,64
13 x		8 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 18 - 19 - 22 - 24 mm	
10 x		10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 18 - 19 mm	
2 x		75 - 150 mm	
1 x		3/8“	
1 x		190 mm	

Socket set

- 6 point
- FlankTraction profile
- Matt finish
- Chrome vanadium
- In durable steel storage case

3/8"

			kg
917.4031	30 pcs	Socket set	2,88
16 x		6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 16 - 17 - 19 - 21 - 22 - 24 mm	
7 x		8 - 10 - 11 - 12 - 13 - 15 - 17 mm	
2 x		16 - 21 mm	
2 x		75 - 200 mm	
1 x		3/8“	
1 x		3/8“	
1 x		200 mm	

Socket set

- 6 point
- FlankTraction profile
- Matt finish
- Chrome vanadium
- In durable plastic storage case

3/8"

			kg
951.0646	46 pcs	Socket set	3,80
11 x		1/4“ - 5/16“ - 3/8“ - 7/16“ - 1/2“ - 9/16“ - 5/8“ - 11/16“ - 3/4“ - 13/16“ - 7/8“	
6 x		3/8“ - 7/16“ - 1/2“ - 9/16“ - 11/16“ - 3/4“	

2 x	5/8“ - 13/16“
7 x	1/8“ - 5/32“ - 3/16“ - 7/32“ - 1/4“ - 5/16“ - 3/8“
10 x	T10 - T15 - T20 - T25 - T27 - T30 - T40 - T45 - T50 - T55
5 x	M4 - M5 - M6 - M8 - M10
1 x	160 mm
2 x	75 - 150 mm
1 x	3/8“
1 x	190 mm

CHROME*plus*® socket set

- 6 point
- FlankTraction profile
- Mirror polished
- Chrome vanadium
- In durable plastic storage case

3/8“

			kg
958.0646	46 pcs	CHROME*plus*® socket set	3,80

11 x	1/4“ - 5/16“ - 3/8“ - 7/16“ - 1/2“ - 9/16“ - 5/8“ - 11/16“ - 3/4“ - 13/16“ - 7/8“
6 x	3/8“ - 7/16“ - 1/2“ - 9/16“ - 11/16“ - 3/4“
2 x	5/8“ - 13/16“
7 x	1/8“ - 5/32“ - 3/16“ - 7/32“ - 1/4“ - 5/16“ - 3/8“
10 x	T10 - T15 - T20 - T25 - T27 - T30 - T40 - T45 - T50 - T55
5 x	M4 - M5 - M6 - M8 - M10
1 x	160 mm
2 x	75 - 150 mm
1 x	3/8“
1 x	190 mm

Socket set

- 6 point
- FlankTraction profile
- Matt finish
- Chrome vanadium
- In durable plastic storage case

3/8“

			kg
911.0661	61 pcs	Socket set	4,20

18 x	6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 16 - 17 - 18 - 19 - 20 - 21 - 22 24 mm
10 x	8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 17 - 19 mm
3 x	5,5 - 6,5 - 8 mm
3 x	PH1 - PH2 - PH3
3 x	PZ1 - PZ2 - PZ3
7 x	3 - 4 - 5 - 6 - 7 - 8 - 10 mm
10 x	T10 - T15 - T20 - T25 - T27 - T30 T40 - T45 - T50 - T55
2 x	16 - 21 mm
2 x	75 - 250 mm
1 x	3/8“
1 x	3/8“
1 x	200 mm

CHROME*plus*® socket set

- 6 point
- FlankTraction profile
- Mirror polished
- Chrome vanadium
- In durable plastic storage case

3/8“

			kg
918.0661	61 pcs	CHROME*plus*® socket set	3,80

18 x	6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 16 - 17 - 18 - 19 - 20 - 21 - 22 - 24 mm
10 x	8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 17 19 mm
2 x	16 - 21 mm
3 x	5,5 - 6,5 - 8 mm
3 x	PH1 - PH2 - PH3
3 x	PZ1 - PZ2 - PZ3
7 x	3 - 4 - 5 - 6 - 7 - 8 - 10 mm
10 x	T10 - T15 - T20 - T25 - T27 - T30 T40 - T45 - T50 - T55
2 x	75 - 150 mm
1 x	3/8“
1 x	3/8“
1 x	200 mm

Socket set

- 6 point
- FlankTraction profile
- Matt finish
- Chrome vanadium
- In durable plastic storage case

3/8“

			kg
951.0666	66 pcs	Socket set	4,67

18 x	6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 24 mm
10 x	8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 17 - 19 mm
2 x	16 - 21 mm
3 x	5,5 - 6,5 - 8 mm
7 x	3 - 4 - 5 - 6 - 7 - 8 - 10 mm
3 x	PH1 - PH2 - PH3
3 x	PZ1 - PZ2 - PZ3
10 x	T10 - T15 - T20 - T25 - T27 - T30 - T40 - T45 - T50 - T55
5 x	M4 - M5 - M6 - M8 - M10
2 x	75 - 250 mm
1 x	3/8“
1 x	1/2“F x 3/8“M
1 x	190 mm

CHROME*plus*® socket set

- 6 point
- FlankTraction profile
- Mirror polished
- Chrome vanadium
- In durable plastic storage case

3/8"

958.0666	66 pcs	CHROME*plus*® socket set	4,67 kg
18 x			6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 24 mm
10 x			8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 17 - 19 mm
2 x			16 - 21 mm
3 x			5,5 - 6,5 - 8 mm
7 x			3 - 4 - 5 - 6 - 7 - 8 - 10 mm
3 x			PH1 - PH2 - PH3
3 x			PZ1 - PZ2 - PZ3
10 x			T10 - T15 - T20 - T25 - T27 - T30 - T40 - T45 - T50 - T55
5 x			M4 - M5 - M6 - M8 - M10
2 x			75 - 250 mm
1 x			3/8"
1 x			1/2"F x 3/8"M
1 x			190 mm

3/8" SET ASSORTMENTS

Torx Socket and bit set

- Matt finish
- Chrome vanadium
- In durable plastic storage case

1/4" 3/8" 1/2"

911.4301-1	30 pcs	Torx Socket and bit set	1,45 kg
5 x			1/4": E4 - E5 - E6 - E7 - E8
4 x			3/8": E10 - E11 - E12 - E14
5 x			1/2": E16 - E18 - E20 - E22 - E24
2 x			3/8" x 10 mm - 1/2" x 10mm
7 x			30 mm (T20 - T25 - T30 - T40 - T45 T50 - T55)
7 x			75 mm (T20 - T25 - T30 - T40 - T45 T50 - T55)

Torx Bit socket set for Torx tamperproof screws

- Matt finish
- Chrome vanadium
- In durable plastic storage case

1/4" 3/8" 1/2"

911.4301-2	30 pcs	Torx Bit socket set for Torx tamper-proof screws	1,45 kg
5 x			1/4": E4 - E5 - E6 - E7 - E8
4 x			3/8": E10 - E11 - E12 - E14
5 x			1/2": E16 - E18 - E20 - E22 - E24
2 x			3/8" x 10 mm - 1/2" x 10mm
7 x			30 mm (TB20 - TB25 - TB30 - TB40 TB45 - TB50 - TB55)
7 x			75 mm (TB20 - TB25 - TB30 - TB40 TB45 - TB50 - TB55)

Torx Socket set

- Matt finish
- Chrome vanadium
- In durable plastic storage case

1/4" 3/8" 1/2"

911.4302	31 pcs	Torx Socket set	1,40 kg
6 x			1/4": T10 - T15 - T20 - T25 - T27 - T30
3 x			5/16": T40 - T45 - T50
3 x			1/4": TB30 x 30 mm - TB25 x 75 mm - TB30 x 75 mm
2 x			1/2": T55 - T60
4 x			1/4": E5 - E6 - E7 - E8
3 x			3/8": E10 - E12 - E14
3 x			1/2": E16 - E18 - E20
3 x			1/4" x 1/4" - 3/8" x 5/16" - 1/2" x 5/16"
4 x			E6 x E8 - E7 x E11 - E10 x E12 E14 x E18 -

Torx Socket and bit set

- Matt finish
- Chrome vanadium
- In durable plastic storage case

1/4" 3/8" 1/2"

911.4305	57 pcs	Torx Socket and bit set	2,00 kg
2 x			3/8" x 10mm - 1/2" x 1/4"
12 x			1/4": E4 - E5 - E6 - E7 - E8; 3/8": E10 - E11 - E12 - E14;1/2": E16 - E18 - E20
7 x			4 - 5 - 6 - 7 - 8 - 10 - 12 mm
9 x			TB20 - TB25 - TB27 - TB30 - TB40 - TB45 - TB50 - TB55 - TB60
5 x			M5 - M6 - M8 - M10 - M12
2 x			8 - 10 mm

2 x	PH2 - PH3
5 x	5 - 6 - 7 - 8 - 10 mm
9 x	T20 - T25 - T27 - T30 - T40 - T45 - T50 - T55 - T60
4 x	M6 - M8 - M10 - M12

CHROME*plus*® Socket set

- Imperial sizes
- 6 point
- FlankTraction profile
- Mirror polished
- Chrome vanadium
- In durable plastic storage case

1/4" 3/8"

			kg
918.0699	99 pcs	CHROME*plus*® Socket set	6,30
12 x		1/4": 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 11 - 12 - 13 mm	
10 x		1/4": 5/32" - 3/16" - 7/32" - 1/4" - 9/32" 5/16" - 11/32" - 3/8" - 7/16" - 1/2"	
16 x		3/8": 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 16 - 17 - 18 - 19 - 20 - 21 - 22 24 mm	
5 x		3/8": 10 - 12 - 13 - 17 - 19 mm	
11 x		3/8": 1/4" - 5/16" - 3/8" - 7/16" - 1/2" 9/16" - 5/8" - 11/16" - 3/4" - 13/16" 7/8"	
5 x		3/8": 3/8" - 7/16" - 1/2" - 9/16" - 5/8"	
3 x		3/8": 16 - 18 - 21 mm	
3 x		3/8": 5,5 - 6,5 - 8 mm	
2 x		3/8": PH1 - PH2	
2 x		3/8": PZ1 - PZ2	
5 x		3/8": 5 - 6 - 7 - 8 - 10 mm	
5 x		3/8": 5/32" - 3/16" - 1/4" - 5/16" - 3/8"	
8 x		3/8": T10 - T15 - T20 - T25 - T27 - T30 T40 - T45	
5 x		3/8": M4 - M5 - M6 - M8 - M10	
1 x		1/4"	
1 x		1/4": 100 mm	
1 x		1/4"	
2 x		3/8": 75 - 150 mm	
1 x		3/8"	
1 x		3/8": 200 mm	

Socket set

- 6 point
- FlankTraction profile
- Matt finish
- Chrome vanadium
- In durable plastic storage case

1/4" 3/8"

			kg
951.0699	100 pcs	Socket set	6,20
12 x		1/4": 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 11 - 12 - 13 mm	
10 x		1/4": 3/16" - 7/32" - 1/4" - 9/32" - 5/16" - 11/32" - 3/8" - 7/16" - 1/2" - 9/16" - 13/32"	
16 x		3/8": 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 24 mm	
11 x		3/8": 1/4" - 5/16" - 3/8" - 7/16" - 1/2" - 9/16" - 5/8" - 11/16" - 3/4" - 13/16" - 7/8	
5 x		3/8": 10 - 12 - 13 - 17 - 19 mm	
5 x		3/8": 3/8" - 7/16" - 1/2" - 9/16" - 5/8"	
3 x		3/8": 16 - 18 - 21 mm	
3 x		3/8": 5,5 - 6,5 - 8 mm	
2 x		3/8": PH1 - PH2	
2 x		3/8": PZ1 - PZ2	
5 x		3/8": 5 - 6 - 7 - 8 - 10 mm	
5 x		3/8": 5/32" - 3/16" - 1/4" - 5/16" - 3/8"	
8 x		3/8": T10 - T15 - T20 - T25 - T27 - T30 - T40 - T45	
5 x		3/8": M4 - M5 - M6 - M8 - M10	
1 x		1/4": 150 mm	
1 x		1/4": 100 mm	
2 x		3/8": 75 - 150 mm	
1 x		3/8"	
2 x		1/4" - 3/8"	

CHROME*plus*® socket set

- 6 point
- FlankTraction profile
- Mirror polished
- Chrome vanadium
- In durable plastic storage case

3/8"

			kg
958.0699	100 pcs	CHROME*plus*® socket set	6,20
12 x		1/4": 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 11 - 12 - 13 mm	
10 x		1/4": 3/16" - 7/32" - 1/4" - 9/32" - 5/16" - 11/32" - 3/8" - 7/16" - 1/2" - 9/16" - 13/32"	
16 x		3/8": 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 24 mm	
11 x		3/8": 1/4" - 5/16" - 3/8" - 7/16" - 1/2" - 9/16" - 5/8" - 11/16" - 3/4" - 13/16" - 7/8	
5 x		3/8": 10 - 12 - 13 - 17 - 19 mm	
5 x		3/8": 3/8" - 7/16" - 1/2" - 9/16" - 5/8"	
3 x		3/8": 16 - 18 - 21 mm	
3 x		3/8": 5,5 - 6,5 - 8 mm	
2 x		3/8": PH1 - PH2	
2 x		3/8": PZ1 - PZ2	
5 x		3/8": 5 - 6 - 7 - 8 - 10 mm	
5 x		3/8": 5/32" - 3/16" - 1/4" - 5/16" - 3/8"	
8 x		3/8": T10 - T15 - T20 - T25 - T27 - T30 - T40 - T45	
5 x		3/8": M4 - M5 - M6 - M8 - M10	
1 x		1/4": 150 mm	
1 x		1/4": 100 mm	
2 x		3/8": 75 - 150 mm	
1 x		3/8"	
2 x		1/4" - 3/8"	

CHROME*plus*® Socket set

- 6 point
- FlankTraction profile
- Mirror polished
- Chrome vanadium
- In durable plastic storage case

1/4" 3/8" 1/2"

			kg
918.0724	124 pcs	CHROME*plus*® Socket set	9,50

10 x	1/4": 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 13 mm
6 x	1/4": 5 - 6 - 7 - 8 - 9 - 10 mm
11 x	3/8": 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 17 - 18 - 19 mm
6 x	3/8": 10 - 11 - 12 - 13 - 14 - 15 mm
8 x	3/8": E8 - E10 - E11 - E12 - E14 - E16 E18 - E20
8 x	1/2": 20 - 21 - 22 - 24 - 27 - 30 - 32 34 mm
6 x	1/2": 10 - 12 - 13 - 14 - 17 - 19 mm
2 x	1/2": E22 - E24
2 x	1/2": 16 - 21 mm
1 x	1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm
12 x	8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 17 - 18 - 19 mm
2 x	3/8": 4 - 5,5 mm
3 x	3/8": PH1 - PH2 - PH3
3 x	3/8": PZ1 - PZ2 - PZ3
5 x	3/8": 3 - 4 - 5 - 6 - 8 mm
5 x	3/8": T20 - T30 - T40 - T45 - T50
4 x	3/8": M4 - M5 - M6 - M8
7 x	1/4": T10 - T15 - T20 - T25 - T27 T30 -T40
1 x	1/4"
1 x	1/4"
1 x	1/4": 100 mm
2 x	3/8": 75 - 150 mm
2 x	1/2": 125 - 250 mm
3 x	1/4" - 3/8" - 1/2"
2 x	1/2": F1/2" x M 3/8"
3 x	1/4" - 3/8" - 1/2"

Socket set

- 6 point
- FlankTraction profile
- Matt finish
- Chrome vanadium
- In durable plastic storage case

1/4" 3/8" 1/2"

			kg
917.0779	179 pcs	Socket set	9,00

13 x	1/4": 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 11 - 12 - 13 - 14 mm
7 x	1/4": 4 - 5 - 6 - 7 - 8 - 9 - 10 mm
10 x	3/8": 10 - 11 - 12 - 13 - 14 - 15 - 16 17 - 18 - 19 mm
6 x	3/8": 10 - 11 - 12 - 13 - 14 - 15 mm
17 x	1/2": 10 - 11 - 12 - 13 - 14 - 15 - 16 17 - 18 - 19 - 20 - 21 - 22 - 24 - 27 30 - 32 mm
5 x	1/2": 16 - 17 - 18 - 19 - 22 mm
1 x	3/8": 18 mm
2 x	1/2": 16 - 21 mm
4 x	1/4": 4 - 5,5 - 6,5 - 7 mm
3 x	1/4": PH0 - PH1 - PH2
3 x	1/4": PZ0 - PZ1 - PZ2
4 x	1/4": 3 - 4 - 5 - 6 mm
8 x	1/4": T8 - T9 - T10 - T15 - T20 - T25 - T27 T30
8 x	1/4": TB8 - TB9 - TB10 - TB15 - TB20 TB25 TB27 - TB30
5 x	1/4": E4 - E5 - E6 - E7 - E8
6 x	3/8": E10 - E11 - E12 - E14 - E16 - E18
2 x	1/2": E20 - E24
11 x	1/4": T5 - T6 - T7 - T8 - T9 - T10 - T15 T20 - T25 - T27 - T30
1 x	1/4": TB7
3 x	1/4": M5 - M6 - M8
5 x	1/4": M5 - M6 - M7 - M8 - M9
8 x	1/4": TS10 - TS15 - TS20 - TS25 TS27 - TS30 - TS40 - TS45
3 x	5/16": 8 - 10 - 12 mm
5 x	5/16": 7 - 8 - 10 - 12 - 14 mm
2 x	5/16": PH3 - PH4
2 x	5/16": PZ3 - PZ4
6 x	5/16": T40 - T45 - T50 - T55 - T60 - T70
6 x	5/16": TB40 - TB45 - TB50 - TB55 TB60 - TB70
7 x	1,3 - 1,5 - 2 - 2,5 - 3 - 4 - 5 mm
1 x	1/4": 150 mm
1 x	1/4": 110 mm
2 x	1/4": 50 - 100 mm
1 x	3/8": 150 mm
2 x	1/2": 125 - 250 mm
3 x	1/4" - 3/8" - 1/2
1 x	1/4" x 1/4"
1 x	3/8" x 5/16"
1 x	1/2" x 5/16"
1 x	3/8"Fx1/2"M
3 x	1/4" - 3/8" - 1/2

Socket set

- 6 point
- FlankTraction profile
- Matt finish
- Chrome vanadium
- In durable plastic storage case

1/4" 3/8" 1/2"

			kg
917.0795	195 pcs	Socket set	10,00

13 x	1/4": 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 -14 mm
10 x	3/8": 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm
17 x	1/2": 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 23 - 24 - 27 - 30 - 32 mm
7 x	1/4": 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm
6 x	3/8": 10 - 11 - 12 - 13 - 14 - 15 mm
5 x	1/2": 16 - 17 - 18 - 19 - 22 mm
5 x	1/4": E4 - E5 - E6 - E7 - E8
6 x	3/8": E10 - E11 - E12 - E14 - E16 - E18
2 x	1/2": E20 - E24
1 x	3/8": 18 mm
2 x	1/2": 16 - 21 mm
3 x	1/4" - 3/8" - 1/2"
1 x	1/4" x 1/4"
2 x	3/8" x 5/16" - 1/2" x 5/16"

1 x	3/8“F - 1/2“M
2 x	1/4“: 50 - 100 mm
1 x	3/8“: 150 mm
2 x	1/2“: 125 - 250 mm
1 x	150 mm
3 x	1/4“ - 3/8“ - 1/2“
1 x	110 mm
3 x	1/4“: PH0 - PH1 - PH2
3 x	1/4“: PZ0 - PZ1 - PZ2
8 x	1/4“: T8 - T9 - T10 - T15 - T20 - T25 - T27 - T30
8 x	1/4“: TB8 - TB9 - TB10 - TB15 - TB20 - TB25 - TB27 - TB30
4 x	1/4“: 4 - 5,5 - 6,5 - 7 mm
4 x	1/4“: 3 - 4 - 5 - 6 mm
7 x	1 -1,5 - 2 - 2,5 - 3 - 4 - 5 mm
3 x	1/4“: PH1 - PH2 - PH3
2 x	1/4“: PZ1 - PZ2
11 x	1/4“: T5 - T6 - T7 - T8 - T9 - T10 - T15 - T20 - T25 - T27 - T30
8 x	1/4“: TB7 - TB10 - TB15 - TB20 - TB25 - TB27 - TB30 - TB40
3 x	1/4“: 4 - 5 - 6 mm
3 x	1/4“: M5 - M6 - M8
8 x	1/4“: TS10 - TS15 - TS20 - TS25 - TS27 - TS30 - TS40 - TS45
5 x	1/4“: M5 - M6 - M7 - M8 - M9
2 x	5/16“: PH3 - PH4
2 x	5/16“: PZ3 - PZ4
6 x	5/16“: T40 - T45 - T50 - T55 - T60 - T70
6 x	5/16“: TB40 - TB45 - TB50 - TB55 - TB60 - TB70
5 x	5/16“: 7 - 8 - 10 - 12 - 14 mm
3 x	5/16“: 8 - 10 - 12 mm

CHROME*plus*® Socket set

- 6 point
- FlankTraction profile
- Mirror polished
- Chrome vanadium
- In durable plastic storage case

1/4" 3/8" 1/2"

			kg
918.0795	195 pcs	CHROME*plus*® Socket set	10,00

13 x	1/4“: 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 11 - 12 - 13 -14 mm
10 x	3/8“: 10 - 11 - 12 - 13 - 14 - 15 - 16 17 - 18 - 19 mm
17 x	1/2“: 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 19 - 20 - 21 - 22 - 23 - 24 - 27 - 30 - 32 mm
7 x	1/4“: 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm
6 x	3/8“: 10 - 11 - 12 - 13 - 14 - 15 mm
5 x	1/2“: 16 - 17 - 18 - 19 - 22 mm
5 x	1/4“: E4 - E5 - E6 - E7 - E8
6 x	3/8“: E10 - E11 - E12 - E14 - E16 - E18
2 x	1/2“: E20 - E24
1 x	3/8“: 18 mm
2 x	1/2“: 16 - 21 mm
3 x	1/4“ - 3/8“ - 1/2“
1 x	1/4“ x 1/4“
1 x	3/8“ x 5/16“
1 x	1/2“ x 5/16“
1 x	3/8“F - 1/2“M
2 x	1/4“: 50 - 100 mm
1 x	3/8“: 150 mm
2 x	1/2“: 125 - 250 mm
1 x	150 mm
3 x	1/4“ - 3/8“ - 1/2“
1 x	110 mm
3 x	1/4“: PH0 - PH1 - PH2
3 x	1/4“: PZ0 - PZ1 - PZ2
8 x	1/4“: T8 - T9 - T10 - T15 - T20 - T25 T27 - T30
8 x	1/4“: TB8 - TB9 - TB10 - TB15 - TB20 TB25 - TB27 - TB30
4 x	1/4“: 4 - 5,5 - 6,5 - 7 mm
4 x	1/4“: 3 - 4 - 5 - 6 mm
7 x	1 -1,5 - 2 - 2,5 - 3 - 4 - 5 mm
3 x	1/4“: PH1 - PH2 - PH3
2 x	1/4“: PZ1 - PZ2
11 x	1/4“: T5 - T6 - T7 - T8 - T9 - T10 - T15 T20 - T25 - T27 - T30
8 x	1/4“: TB7 - TB10 - TB15 - TB20 TB25 - TB27 - TB30 - TB40
3 x	1/4“: 4 - 5 - 6 mm
3 x	1/4“: M5 - M6 - M8
8 x	1/4“: TS10 - TS15 - TS20 - TS25 TS27 - TS30 - TS40 - TS45
5 x	1/4“: M5 - M6 - M7 - M8 - M9
2 x	5/16“: PH3 - PH4
2 x	5/16“: PZ3 - PZ4
6 x	5/16“: T40 - T45 - T50 - T55 - T60 - T70
6 x	5/16“: TB40 - TB45 - TB50 - TB55 TB60 - TB70
5 x	5/16“: 7 - 8 - 10 - 12 - 14 mm
3 x	5/16“: 8 - 10 - 12 mm

Socket set

- 6 point
- FlankTraction profile
- Matt finish
- Chrome vanadium
- In durable plastic storage case

1/4" 3/8" 1/2"

			kg
917.0216	216 pcs	Socket set	11,60

13 x	1/4“: 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 11 - 12 - 13 -14 mm
10 x	3/8“: 10 - 11 - 12 - 13 - 14 - 15 - 16 17 - 18 - 19 mm
16 x	1/2“: 10 - 11 - 12 - 13 - 14 - 15 - 17 - 18 19 - 20 - 21 - 22 - 24 - 27 - 30 - 32 mm
10 x	1/4“: 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 14 - 15 mm
6 x	3/8“: 10 - 11 - 12 - 13 - 14 - 15 mm
3 x	1/2“: 17 - 19 - 22 mm
5 x	1/4“: E4 - E5 - E6 - E7 - E8
6 x	3/8“: E10 - E11 - E12 - E14 - E16 - E18
8 x	1/2“: E10 - E11 - E12 - E14 - E16 E18 - E20 - E24
1 x	3/8“: 18 mm
2 x	1/2“: 16 - 21 mm
3 x	1/4“ - 3/8“ - 1/2“
1 x	1/4“ x 1/4“
2 x	3/8“ x 5/16“ - 1/2“ x 5/16“
2 x	1/4“: 50 - 100 mm
1 x	3/8“: 150 mm
2 x	1/2“: 125 - 250 mm
1 x	110 mm
3 x	1/4“ - 3/8“ - 1/2“
1 x	1/4“: 205 mm
1 x	150 mm
2 x	1/2“: T55 - T60
2 x	1/4“: PH1 - PH2
2 x	1/4“: PZ1 - PZ2
6 x	1/4“: T8 - T10 - T15 - T20 - T25 - T30
6 x	1/4“: TB8 - TB10 - TB15 - TB20 TB25 - TB30
3 x	1/4“: 4 - 5,5 - 6,5 mm
4 x	1/4“: 3 - 4 - 5 - 6 mm
1 x	5/16“: TS50

7 x	1,3 -1,5 - 2 - 2,5 - 3 - 4 - 5 mm
1 x	1/4“: 50 mm
4 x	1/4“: PH0 - PH1 - PH2 - PH3
4 x	1/4“: PZ0 - PZ1 - PZ2 - PZ3
8 x	1/4“: T8 - T10 - T15 - T20 - T25 - T27 T30 - T40
8 x	1/4“: TB8 - TB10 - TB15 - TB20 TB25 - TB27 - TB30 - TB40
3 x	1/4“: 4 - 5 - 6 mm
3 x	1/4“: M5 - M6 - M8
3 x	1/4“: 4 - 5,5 - 7 mm
3 x	1/4“: M5 - M6 - M8
2 x	1/4“: 6 - 8 mm
3 x	1/4“: 4 - 6 - 8 mm
3 x	1/4“: 1 - 2 - 3 mm
3 x	5/16“: PH2 - PH3 - PH4
3 x	5/16“: PZ2 - PZ3 - PZ4
6 x	5/16“: T30 - T40 - T45 - T50 - T55 - T60
6 x	5/16“: TB30 - TB40 - TB45 - TB50 - TB55 - TB60
4 x	5/16“: 7 - 8 - 10 - 12 mm
4 x	5/16“: M5 - M6 - M8 - M10
3 x	5/16“: 8 - 10 - 12 mm
12 x	8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm

CHROME*plus*® Socket set

- 6 point
- FlankTraction profile
- Mirror polished
- Chrome vanadium
- In durable plastic storage case

1/4" 3/8" 1/2"

			kg
918.0216	216 pcs	CHROME*plus*® Socket set	11,60

13 x	1/4“: 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 11 - 12 - 13 -14 mm
10 x	3/8“: 10 - 11 - 12 - 13 - 14 - 15 - 16 17 - 18 - 19 mm
14 x	1/2“: 13 - 14 - 15 - 16 - 17 - 18 - 19 20 - 21 - 22 - 24 - 27 - 30 - 32 mm
7 x	1/4“: 4 - 5 - 6 - 7 - 8 - 9 - 10 mm
6 x	3/8“: 10 - 11 - 12 - 13 - 14 - 15 mm
5 x	1/2“: 16 - 17 - 18 - 19 - 22 mm
5 x	1/4“: E4 - E5 - E6 - E7 - E8
6 x	3/8“: E10 - E11 - E12 - E14 - E16 - E18
3 x	1/2“: E20 - E22 - E24
1 x	3/8“: 18 mm
2 x	1/2“: 16 - 21 mm
3 x	1/4“ - 3/8“ - 1/2“
1 x	1/4“ x 1/4“
2 x	3/8“ x 5/16“ - 1/2“ x 5/16“
1 x	3/8“F - 1/2“M
2 x	1/4“: 50 - 100 mm
1 x	3/8“: 150 mm
2 x	1/2“: 125 - 250 mm
1 x	110 mm
3 x	1/4“ - 3/8“ - 1/2“
1 x	1/4“: 205 mm
1 x	150 mm
2 x	1/2“: T55 - T60
3 x	1/4“: PH0 - PH1 - PH2
3 x	1/4“: PZ0 - PZ1 - PZ2
8 x	1/4“: T8 - T9 - T10 - T15 - T20 - T25 T27 - T30
8 x	1/4“: TB8 - TB9 - TB10 - TB15 - TB20 TB25 - TB27 - TB30
4 x	1/4“: 4 - 5,5 - 6,5 - 7 mm
4 x	1/4“: 3 - 4 - 5 - 6 mm
1 x	5/16“: TS50
7 x	1,3 -1,5 - 2 - 2,5 - 3 - 4 - 5 mm
1 x	1/4“: 50 mm
4 x	1/4“: PH0 - PH1 - PH2 - PH3
4 x	1/4“: PZ0 - PZ1 - PZ2 - PZ3
8 x	1/4“: T8 - T10 - T15 - T20 - T25 - T27 T30 - T40
8 x	1/4“: TB8 - TB10 - TB15 - TB20 TB25 - TB27 - TB30 - TB40
3 x	1/4“: 4 - 5 - 6 mm
3 x	1/4“: M5 - M6 - M8
3 x	1/4“: 4 - 5,5 - 7 mm
3 x	1/4“: M5 - M6 - M8
2 x	1/4“: 6 - 8 mm
3 x	1/4“: 4 - 6 - 8 mm
3 x	1/4“: 1 - 2 - 3 mm
3 x	5/16“: PH2 - PH3 - PH4
3 x	5/16“: PZ2 - PZ3 - PZ4
6 x	5/16“: T30 - T40 - T45 - T50 - T55 - T60
6 x	5/16“: TB30 - TB40 - TB45 - TB50 TB55 - TB60
4 x	5/16“: 7 - 8 - 10 - 12 mm
4 x	5/16“: M5 - M6 - M8 - M10
3 x	5/16“: 8 - 10 - 12 mm
12 x	8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 17 - 18 - 19 mm

3/8“ TOOL CASES & TROLLEYS

Universal tool kit set

- 6 point
- FlankTraction profile
- Matt finish
- Chrome vanadium
- In a classy aluminium case

3/8“

			kg
911.0665	165 pcs	Universal tool kit set	9,40
17 x		3/8“: 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 21 - 22 - 24 mm	
1 x		3/8“: 150 mm	
1 x		3/8“	
1 x		3/8“ x 1/4“	
1 x			
3 x		150 mm	
1 x			
10 x			
1 x		145 mm	
1 x		300 g	
1 x		130 - 630 mm	
1 x		300 mm	
1 x		1/4“: 911.2060	
1 x		1/4“: 205 mm	
1 x		3/8“	
9 x		1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm	
1 x		5 m	
20 x		100 mm	
34 x			
10 x		8 - 10 - 11 - 12 - 13 - 14 - 15 - 17 - 19 - 22 mm	
2 x		PH00x2 - PH0x2,4 mm	
3 x		1,4 - 2 - 2,4 mm	
3 x		3 - 5,5 - 6,5 mm	
2 x		PH1 - PH2	
1 x		PZ2	
1 x		150 - 250 V	
1 x		0,75 - 6,0 mm	
1 x		160 mm	
1 x		180 mm	
1 x		200 mm	
1 x		240 mm	
1 x		250 mm	

CHROME*plus*® universal tool kit set

- 6 point
- FlankTraction profile
- Removeable plastic storage trays
- Mirror polished
- Chrome vanadium
- Telescopic carrying handle
- In a classy aluminium trolley

3/8“

			kg
918.0772	172 pcs	CHROME*plus*® universal tool kit set	19,00
16 x		8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 17 - 18 - 19 - 20 - 21 - 22 - 24 mm	
2 x		16 - 21 mm	
3 x		5,5 - 6,5 - 8 mm	
4 x		M4 - M5 - M6 - M8 - M10	
5 x		5 - 6 - 7 - 8 - 10 mm	
8 x		T10 - T15 - T20 - T25 - T27 - T30 T40 - T45	
2 x		PH1 - PH2	
2 x		PZ1 - PZ2	
1 x		2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm	
1 x		T10 - T15 - T20 - T25 - T30 - T40 - T45 - T50	

1 x	3/8“
1 x	3/8“
2 x	75 - 150 mm
1 x	250 mm
12 x	8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 17 - 18 - 19 mm
4 x	6 x 38 mm - 3 x 75 mm 6,5 x 125 mm - 10 x 250 mm
3 x	PH 1 x 75 mm - PH 2 x 100 mm PH 2 x 38 mm
2 x	PZ 1 x 75 mm - PZ 2 x 38 mm
1 x	160 mm
1 x	165 mm
1 x	180 mm
1 x	250 mm
1 x	
1 x	13“
1 x	10“
1 x	10“
1 x	140 mm
1 x	300 g
1 x	
1 x	5 mm
1 x	12 mm
1 x	
1 x	
1 x	100 mm
1 x	max. 2 kg
1 x	
1 x	
1 x	
1 x	
1 x	12,5 x 200 mm

3/8’’ TOOL CHESTS

CHROME*plus*® Universal tool kit set

- With 3 drawers and upper insert storage
- 6 point
- FlankTraction profile
- Mirror polished
- Chrome vanadium
- In durable steel tool chest

1/4“ 3/8“

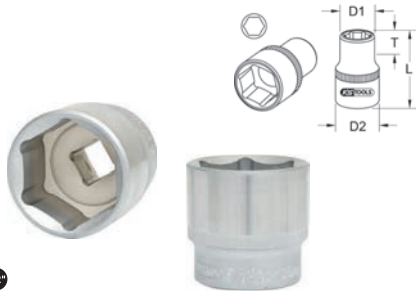
			kg
918.0250	99 pcs	CHROME*plus*® Universal tool kit set	22,00

13 x	1/4“: 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 mm
3 x	1/4“: 8 - 10 - 13 mm
1 x	1/4“: 50 mm
1 x	1/4“
1 x	1/4“: 110 mm
1 x	1/4“: 140 mm
3 x	1/4“: 4 - 5,5 - 7 mm
2 x	1/4“: PH1 - PH2
2 x	1/4“: PZ1 - PZ2
6 x	1/4“: 3 - 4 - 5 - 6 - 7 - 8 mm
7 x	1/4“: T10 - T15 - T20 - T25 - T27 T30 - T40
12 x	3/8“: 8 - 10 - 12 - 13 - 14 - 15 - 17 - 18 - 19 - 20 - 22 - 24 mm
2 x	3/8“: 17 - 19 mm
2 x	3/8“: 16 - 21 mm
2 x	3/8“: 75 - 150 mm
1 x	3/8“: F1/4“ x M 3/8“
1 x	3/8“
1 x	3/8“: 200 mm
1 x	1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm
12 x	8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 17 - 18 - 19 mm
6 x	6 x 38 mm - 3 x 75 mm - 4 x 100 mm 5,5 x 100 mm - 6,5 x 125 mm - 8 x 150 mm
4 x	PH2 x 38 mm - PH1 x 75 mm PH2 x 100 mm - PH3 x 150 mm
1 x	160 mm
1 x	180 mm
1 x	200 mm
1 x	10“
1 x	250 mm
1 x	300 g

1/2” SOCKETS

Hexagonal socket

- 6 point
- FlankTraction profile
- According to DIN 3124 / ISO 2725
- Internal square to DIN 3120 / ISO 1174 with ball reception
- For manual operation
- Matt finish
- Chrome vanadium



1/2”

	mm		D1 mm	D2 mm	L mm	T mm	g
917.1340	8,0		13,0	22,0	38,0	14,0	45
917.1341	9,0		14,0	22,0	38,0	14,0	48
917.1210	10,0		15,0	22,0	38,0	14,0	48
917.1211	11,0		16,0	22,0	38,0	14,0	51
917.1212	12,0		18,0	22,0	38,0	14,0	50
917.1213	13,0		19,0	22,0	38,0	14,0	54
917.1214	14,0		20,0	22,0	38,0	14,0	54
917.1215	15,0		21,0	22,0	38,0	14,0	51
917.1216	16,0		22,0	21,0	38,0	14,0	48
917.1217	17,0		24,0	22,0	38,0	14,0	63
917.1218	18,0		25,0	23,0	38,0	14,0	63
917.1219	19,0		26,0	23,0	38,0	17,0	63
917.1220	20,0		28,0	24,0	38,0	17,0	85
917.1221	21,0		28,0	25,0	38,0	17,0	77
917.1222	22,0		30,0	26,0	38,0	17,0	90
917.1223	23,0		32,0	28,0	38,0	17,0	114
917.1224	24,0		32,0	28,0	38,0	17,0	104
917.1342	25,0		34,0	30,0	42,0	20,0	130
917.1343	26,0		36,0	30,0	42,0	20,0	162
917.1227	27,0		36,0	30,0	42,0	20,0	150
917.1344	28,0		38,0	32,0	42,0	20,0	167
917.1345	29,0		38,0	32,0	42,0	20,0	185
917.1230	30,0		40,0	34,0	44,0	22,0	192
917.1225	31,0		42,0	36,0	44,0	22,0	254
917.1232	32,0		42,0	36,0	44,0	22,0	215
917.1226	33,0		44,0	36,0	44,0	22,0	531
917.1346	34,0		44,0	36,0	45,0	22,0	177
917.1347	36,0		48,0	40,0	45,0	22,0	270
917.1228		5/16”	13,0	22,0	38,0	14,0	45
917.1229		11/32”	14,0	22,0	38,0	14,0	48
917.1348		3/8”	15,0	22,0	38,0	14,0	50
917.1231		13/32”	15,0	22,0	38,0	14,0	50
917.1349		7/16”	17,0	22,0	38,0	14,0	51
917.1350		1/2”	19,0	22,0	38,0	14,0	54
917.1351		9/16”	20,0	22,0	38,0	14,0	54
917.1352		19/32”	22,0	20,0	38,0	14,0	51
917.1353		5/8”	22,0	21,0	38,0	14,0	48
917.1354		11/16”	24,0	22,0	38,0	14,0	63
917.1355		3/4”	26,0	23,0	38,0	15,0	63
917.1233		25/32”	26,0	23,0	38,0	17,0	70
917.1356		13/16”	28,0	26,0	38,0	16,0	77
917.1357		7/8”	30,0	26,0	38,0	16,0	90
917.1358		15/16”	32,0	28,0	38,0	17,0	104
917.1359		1”	34,0	30,0	42,0	20,0	123
917.1360		1.1/16”	36,0	31,0	42,0	22,0	123
917.1329		1.1/8”	38,0	33,0	43,0	22,0	268
917.1234		1.3/16”	40,0	34,0	44,0	22,0	192
917.1330		1.1/4”	42,0	36,0	44,0	22,0	371

Hexagonal socket set

- 6 point
- FlankTraction profile
- According to DIN 3124 / ISO 2725
- Internal square to DIN 3120 / ISO 1174 with ball reception
- For manual operation
- Matt finish
- Chrome vanadium
- Includes storage rail

1/2”

			kg
917.0635	10 pcs	10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm	0,72

CHROME*plus*® Hexagonal socket

- 6 point
- FlankTraction profile
- According to DIN 3124 / ISO 2725
- Internal square to DIN 3120 / ISO 1174 with ball reception
- For manual operation
- Mirror polished
- Chrome vanadium

1/2”

	mm		D1 mm	D2 mm	L mm	T mm	g
918.1208	8,0		13,0	23,0	38,0	7,0	45
918.1209	9,0		14,0	23,0	38,0	8,0	48
918.1210	10,0		16,0	23,0	38,0	14,0	50
918.1211	11,0		17,0	23,0	38,0	13,0	53
918.1212	12,0		18,0	23,0	38,0	13,0	55
918.1213	13,0		19,0	23,0	38,0	13,0	60
918.1214	14,0		21,0	23,0	38,0	13,0	62
918.1215	15,0		22,0	24,0	40,0	15,0	65
918.1216	16,0		23,0	24,0	40,0	15,0	68
918.1217	17,0		24,0	23,0	40,0	15,0	70
918.1218	18,0		26,0	23,0	40,0	17,0	72
918.1219	19,0		27,0	24,0	40,0	17,0	80
918.1220	20,0		28,0	26,0	40,0	17,0	85
918.1221	21,0		30,0	26,0	42,0	19,0	95
918.1222	22,0		31,0	26,0	42,0	19,0	100
918.1223	23,0		32,0	28,0	42,0	19,0	105
918.1224	24,0		33,0	28,0	42,0	19,0	110
918.1225	25,0		34,0	29,0	42,0	19,0	120
918.1226	26,0		36,0	29,0	42,0	19,0	130
918.1227	27,0		37,0	30,0	42,0	19,0	150
918.1228	28,0		38,0	31,0	43,0	20,0	165
918.1229	29,0		39,0	31,0	43,0	20,0	180
918.1230	30,0		41,0	33,0	43,0	21,0	200
918.1231	31,0		42,5	28,0	47,0	22,0	210
918.1232	32,0		53,0	35,0	45,0	23,0	210
918.1233	33,0		44,0	36,0	45,0	23,0	210
918.1234	34,0		46,0	37,0	45,0	23,0	260
918.1236	36,0		48,0	38,0	45,0	23,0	260
918.1235		5/16”	13,0	23,0	38,0	8,0	48
918.1237		11/32”	14,0	23,0	38,0	15,0	58
918.1301		3/8”	15,0	16,0	16,0	9,0	50
918.1238		13/32”	16,0	23,0	38,0	14,0	50
918.1302		7/16”	16,0	17,0	17,0	9,0	50
918.1303		1/2”	19,0	19,0	19,0	13,0	60
918.1304		9/16”	20,0	21,0	21,0	13,0	60
918.1305		19/32”	22,0	22,0	22,0	14,0	60
918.1306		5/8”	24,0	24,0	24,0	14,0	60
918.1307		11/16”	24,0	24,0	24,0	16,0	70
918.1308		3/4”	27,0	27,0	27,0	16,0	90
918.1239		25/32”	28,0	25,0	40,0	17,0	85
918.1309		13/16”	28,0	28,0	28,0	17,0	90
918.1310		7/8”	30,0	30,0	30,0	18,0	120
918.1311		15/16”	32,0	32,0	32,0	19,0	130
918.1312		1”	34,0	34,0	34,0	19,0	150
918.1313		1.1/16”	36,0	36,0	36,0	20,0	170
918.1314		1.1/8”	38,0	38,0	38,0	20,0	170
918.1255		1.3/16”	41,0	33,0	43,0	21,0	200
918.1315		1.1/4”	40,0	42,0	42,0	21,0	240

CHROME*plus*® Hexagonal socket set

- 6 point
- FlankTraction profile
- According to DIN 3124 / ISO 2725
- Internal square to DIN 3120 / ISO 1174 with ball reception
- For manual operation
- Mirror polished
- Chrome vanadium
- Includes storage rail

1/2”

			kg
918.0650	10 pcs	10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm	0,72

Hexagonal socket, deep

- 6 point
- FlankTraction profile
- According to DIN 3124 / ISO 2725
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Long execution
- For manual operation
- Matt finish
- Chrome vanadium

1/2”

	mm		D1 mm	D2 mm	L mm	T mm	g
917.1313	8,0		13,0	22,0	77,0	13,0	52
917.1309	9,0		14,0	22,0	77,0	13,0	57
917.1240	10,0		16,0	16,0	76,0	14,0	110
917.1241	11,0		17,0	17,0	76,0	13,0	110
917.1242	12,0		18,0	18,0	76,0	13,0	110
917.1243	13,0		20,0	19,0	76,0	13,0	120
917.1244	14,0		21,0	21,0	76,0	13,0	120
917.1245	15,0		22,0	22,0	76,0	15,0	140
917.1246	16,0		23,0	24,0	76,0	15,0	140
917.1247	17,0		24,0	24,0	76,0	15,0	140
917.1248	18,0		26,0	26,0	76,0	17,0	150
917.1249	19,0		27,0	27,0	76,0	17,0	150
917.1258	20,0		27,0	28,0	76,0	17,0	150
917.1259	21,0		27,0	28,0	76,0	19,0	190
917.1252	22,0		28,0	30,0	76,0	19,0	200
917.1315	23,0		32,0	28,0	77,0	33,0	135
917.1257	24,0		30,0	32,0	76,0	19,0	250
917.1328	25,0		36,0	30,0	77,0	33,0	150
917.1337	26,0		36,0	30,0	77,0	33,0	190
917.1254	27,0		34,0	36,0	76,0	19,0	280
917.1338	28,0		38,0	30,0	77,0	33,0	210
917.1339	29,0		40,0	30,0	77,0	33,0	235
917.1255	30,0		35,0	37,0	76,0	21,0	290
917.1256	32,0		36,0	38,0	76,0	23,0	310
917.1235	34,0		45,0	36,5	76,0	37,0	430
917.1306	35,0		49,0	40,0	78,0	35,0	600
917.5391	36,0		48,0	41,0	77,0	37,0	520
917.1201		3/8”	15,0	16,0	76,0	15,0	90
917.1202		7/16”	17,0	17,0	76,0	13,0	100
917.1203		1/2”	19,0	19,0	76,0	13,0	120
917.1205		9/16”	21,0	21,0	76,0	13,0	130
917.1236		5/8”	22,5	24,0	76,0	16,0	120
917.1206		11/16”	25,0	24,0	76,0	17,0	150
917.1207		3/4”	27,0	40,0	76,0	17,0	180
917.1237		13/16”	28,5	28,5	76,0	22,0	195
917.1208		7/8”	31,0	30,0	76,0	19,0	240
917.1204		15/16”	33,0	32,0	76,0	19,0	250
917.1209		1”	35,0	34,0	76,0	19,0	270

Hexagonal socket set, deep

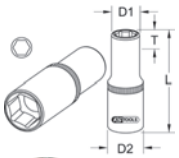
- 6 point
- FlankTraction profile
- According to DIN 3124 / ISO 2725
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Long execution
- For manual operation
- Matt finish
- Chrome vanadium
- Includes storage rail

1/2"

			kg
917.0615	10 pcs	10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm	1,50

CHROME*plus*® Hexagonal socket, deep

- 6 point
- FlankTraction profile
- According to DIN 3124 / ISO 2725
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Long execution
- For manual operation
- Mirror polished
- Chrome vanadium



1/2"

	mm		D1 mm	D2 mm	L mm	T mm	g
918.5355	8,0		13,0	22,0	77,0	13,0	52
918.5356	9,0		14,0	22,0	77,0	13,0	57
918.1240	10,0		16,0	16,0	76,0	13,0	110
918.1241	11,0		17,0	17,0	76,0	13,0	110
918.1242	12,0		18,0	18,0	76,0	13,0	110
918.1243	13,0		19,0	19,0	76,0	13,0	120
918.1244	14,0		21,0	21,0	76,0	13,0	120
918.1245	15,0		22,0	22,0	76,0	15,0	140
918.1246	16,0		23,0	24,0	76,0	15,0	140
918.1247	17,0		24,0	24,0	76,0	15,0	140
918.1248	18,0		26,0	26,0	76,0	17,0	150
918.1249	19,0		27,0	27,0	76,0	17,0	150
918.1260	20,0		27,0	28,0	76,0	17,0	150
918.1258	21,0		27,0	28,0	76,0	19,0	190
918.1252	22,0		28,0	30,0	76,0	19,0	200
918.5357	23,0		32,0	28,0	77,0	33,0	135
918.1254	24,0		30,0	32,0	76,0	19,0	250
918.5358	25,0		34,0	30,0	77,0	33,0	180
918.5359	26,0		36,0	30,0	77,0	33,0	190
918.1257	27,0		34,0	36,0	76,0	19,0	280
918.5361	28,0		38,0	30,0	77,0	33,0	210
918.5362	29,0		40,0	30,0	77,0	33,0	235
918.1272	30,0		35,0	37,0	76,0	21,0	300
918.1273	32,0		36,0	38,0	76,0	23,0	310
918.1256	34,0		45,0	36,5	76,0	37,0	430
918.5363	35,0		49,0	40,0	78,0	33,0	600
918.5391	36,0		48,0	41,0	77,0	37,0	520
918.1318		3/8"	15,0	16,0	76,0	13,0	90
918.1319		7/16"	17,0	17,0	76,0	13,0	100
918.1320		1/2"	19,0	19,0	76,0	13,0	120
918.1321		9/16"	21,0	21,0	76,0	13,0	130
918.1269		5/8"	22,5	24,0	76,0	16,0	120
918.1322		11/16"	25,0	24,0	76,0	17,0	150
918.1323		3/4"	30,0	27,0	76,0	17,0	180
918.1283		13/16"	28,5	28,5	76,0	22,0	195
918.1324		7/8"	31,0	30,0	76,0	19,0	240
918.1325		15/16"	33,0	32,0	76,0	19,0	250
918.1326		1"	35,0	34,0	76,0	19,0	270

CHROME*plus*® Hexagonal socket set, deep

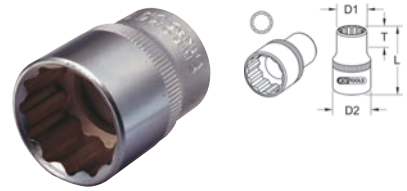
- 6 point
- FlankTraction profile
- According to DIN 3124 / ISO 2725
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Long execution
- For manual operation
- Mirror polished
- Chrome vanadium
- Includes storage rail

1/2"

			kg
918.0612	10 pcs	10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm	1,50

12 Point socket

- 12 point
- FlankTraction profile
- According to DIN 3124 / ISO 2725-1
- Internal square to DIN 3120 / ISO 1174 with ball reception
- For manual operation
- Matt finish
- Chrome vanadium



1/2"

	mm		D1 mm	D2 mm	L mm	T mm	g
917.1361	8,0		13,0	23,0	38,0	7,0	45
917.1362	9,0		14,0	23,0	38,0	8,0	48
911.1570	10,0		16,0	23,0	38,0	14,0	50
911.1571	11,0		17,0	23,0	38,0	13,0	53
911.1572	12,0		18,0	23,0	38,0	13,0	55
911.1573	13,0		19,0	23,0	38,0	13,0	60
911.1574	14,0		21,0	23,0	38,0	13,0	62
911.1575	15,0		22,0	24,0	40,0	15,0	65
911.1576	16,0		23,0	24,0	40,0	15,0	68
911.1577	17,0		24,0	23,0	40,0	15,0	70
911.1578	18,0		26,0	23,0	40,0	17,0	72
911.1579	19,0		27,0	24,0	40,0	17,0	80
911.1580	20,0		28,0	26,0	42,0	17,0	85
911.1581	21,0		29,0	26,0	42,0	19,0	95
911.1582	22,0		31,0	26,0	42,0	19,0	100
911.1583	23,0		32,0	28,0	42,0	19,0	105
911.1584	24,0		33,0	28,0	42,0	19,0	110
917.1363	25,0		34,0	29,0	42,0	19,0	120
917.1364	26,0		36,0	29,0	42,0	19,0	130
911.1585	27,0		37,0	30,0	42,0	19,0	150
917.1365	28,0		38,0	31,0	43,0	20,0	165
917.1366	29,0		39,0	31,0	43,0	20,0	180
911.1586	30,0		41,0	33,0	43,0	21,0	200
917.1238	31,0		42,5	28,0	47,0	22,0	210
911.1587	32,0		43,0	35,0	45,0	23,0	210
917.1367	33,0		44,0	36,0	45,0	23,0	210
917.1239	34,0		46,0	37,0	45,0	23,0	260
911.1589	36,0		40,0	48,0	45,0	24,0	368
917.1368		5/16"	13,0	23,0	38,0	7,0	45
917.1369		11/32"	14,0	23,0	38,0	8,0	48
917.1370		3/8"	15,0	23,0	38,0	15,0	58
917.1371		13/32"	16,0	23,0	38,0	14,0	50
917.1372		7/16"	17,0	23,0	38,0	13,0	53
917.1373		1/2"	19,0	23,0	38,0	13,0	60
917.1374		9/16"	21,0	23,0	38,0	13,0	62
917.1375		19/32"	22,0	24,0	40,0	15,0	65
917.1376		5/8"	23,0	24,0	40,0	15,0	68
917.1377		11/16"	25,0	23,0	40,0	17,0	70
917.1378		3/4"	27,0	24,0	40,0	17,0	80
917.1379		25/32"	28,0	25,0	40,0	17,0	85
917.1380		13/16"	29,0	26,0	42,0	19,0	95
917.1381		7/8"	31,0	27,0	42,0	19,0	100
917.1382		15/16"	33,0	28,0	42,0	19,0	110
917.1383		1"	35,0	29,0	42,0	19,0	123
917.1384		1. 1/16"	37,0	30,0	42,0	19,0	150
917.1385		1. 1/8"	39,0	31,0	43,0	20,0	180
917.1386		1. 3/16"	41,0	33,0	43,0	21,0	200
917.1387		1. 1/4"	43,0	35,0	45,0	23,0	210

12 Point socket set

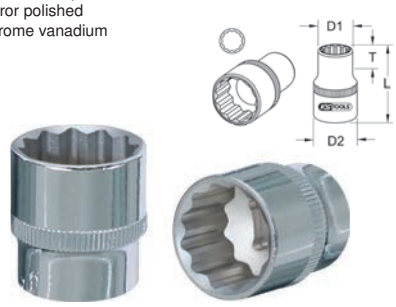
- 12 point
- FlankTraction profile
- According to DIN 3124 / ISO 2725-1
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Short execution
- For manual operation
- Matt finish
- Chrome vanadium
- Includes storage rail

1/2"

			kg
911.1285	15 pcs	10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 23 - 24 mm	1,20

CHROME*plus*® 12 Point socket

- 12 point
- FlankTraction profile
- According to DIN 3124 / ISO 2725-1
- Internal square to DIN 3120 / ISO 1174 with ball reception
- For manual operation
- Mirror polished
- Chrome vanadium



1/2"

	mm		D1 mm	D2 mm	L mm	T mm	g
918.1316	8,0		13,0	23,0	38,0	7,0	45
918.1327	9,0		14,0	23,0	38,0	8,0	48
918.1328	10,0		16,0	23,0	38,0	14,0	50
918.1329	11,0		17,0	23,0	38,0	13,0	53
918.1331	12,0		18,0	23,0	38,0	13,0	55
918.1332	13,0		19,0	23,0	38,0	13,0	60
918.1333	14,0		21,0	23,0	38,0	13,0	62
918.1334	15,0		22,0	24,0	40,0	15,0	65
918.1337	16,0		23,0	24,0	40,0	15,0	68
918.1338	17,0		24,0	23,0	40,0	15,0	70
918.1339	18,0		26,0	23,0	40,0	17,0	72
918.1341	19,0		27,0	24,0	40,0	17,0	80
918.1342	20,0		28,0	26,0	42,0	17,0	85
918.1343	21,0		29,0	26,0	42,0	19,0	95
918.1344	22,0		31,0	26,0	42,0	19,0	100
918.1345	23,0		32,0	28,0	42,0	19,0	105
918.1346	24,0		33,0	28,0	42,0	19,0	110
918.1347	25,0		34,0	29,0	42,0	19,0	120
918.1348	26,0		36,0	29,0	42,0	19,0	130
918.1351	27,0		37,0	30,0	42,0	19,0	150
918.1352	28,0		38,0	31,0	43,0	20,0	165
918.1353	29,0		39,0	31,0	43,0	20,0	180
918.1354	30,0		41,0	33,0	43,0	21,0	200
918.1355	31,0		42,5	28,0	47,0	22,0	210
918.1356	32,0		43,0	35,0	45,0	23,0	210
918.1357	33,0		44,5	45,0	47,0	22,0	215
918.1359	34,0		46,0	37,0	45,0	23,0	260
918.1361	36,0		48,0	38,0	45,0	23,0	260
918.1362		5/16"	13,0	23,0	38,0	7,0	45
918.1363		11/32"	14,0	23,0	38,0	8,0	48
918.1364		3/8"	15,0	23,0	38,0	15,0	58
918.1366		13/32"	16,0	23,0	38,0	14,0	50
918.1371		7/16"	17,0	23,0	38,0	13,0	53
918.1373		1/2"	19,0	23,0	38,0	13,0	60
918.1375		9/16"	21,0	23,0	38,0	13,0	62
918.1376		19/32"	22,0	24,0	40,0	15,0	65
918.1378		5/8"	23,0	24,0	40,0	15,0	68
918.1379		11/16"	25,0	23,0	40,0	17,0	70
918.1381		3/4"	27,0	24,0	40,0	17,0	80
918.1383		25/32"	28,0	25,0	40,0	17,0	85
918.1384		13/16"	29,0	26,0	42,0	19,0	95
918.1387		7/8"	31,0	27,0	42,0	19,0	100
918.1388		15/16"	33,0	28,0	42,0	19,0	110
918.1389		1"	35,0	29,0	42,0	19,0	123
918.1394		1.1/16"	37,0	30,0	42,0	19,0	150
918.1396		1.1/8"	39,0	31,0	43,0	20,0	180
918.1397		1.3/16"	41,0	33,0	43,0	21,0	200
918.1398		1.1/4"	43,0	35,0	45,0	23,0	210

CHROME*plus*® 12 Point socket set

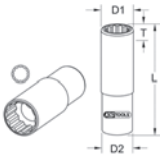
- 12 point
- FlankTraction profile
- According to DIN 3124 / ISO 2725-1
- Internal square to DIN 3120 / ISO 1174 with ball reception
- For manual operation
- Mirror polished
- Chrome vanadium
- Includes storage rail

1/2"

			kg
918.0655	10 pcs	10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm	0,72

12 Point socket, deep

- 12 point
- FlankTraction profile
- According to DIN 3124 / ISO 2725-1
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Long execution
- For manual operation
- Matt finish
- Chrome vanadium



1/2"

	○ mm	○	D1 mm	D2 mm	L mm	T mm	g
917.1261	10,0		16,0	23,0	77,0	12,0	88
917.1285	11,0		17,0	17,0	76,0	13,0	110
917.1262	12,0		18,0	23,0	77,0	14,0	102
917.1263	13,0		19,0	23,0	77,0	16,0	109
917.1264	14,0		21,0	23,0	77,0	17,0	112
917.1265	15,0		22,0	23,0	77,0	17,0	105
917.1266	16,0		23,0	24,0	77,0	18,0	98
917.1267	17,0		24,0	24,0	77,0	18,0	140
917.1268	18,0		26,0	25,0	82,0	20,0	145
917.1269	19,0		27,0	26,0	82,0	22,0	139
917.1286	20,0		27,0	28,0	76,0	17,0	150
917.1270	21,0		29,0	29,0	82,0	24,0	156
917.1271	22,0		31,0	29,0	82,0	24,0	200
917.1272	24,0		33,0	29,0	82,0	26,0	250
917.1273	27,0		37,0	30,0	82,0	30,0	268
917.1274	30,0		41,0	33,0	82,0	33,0	333
917.1275	32,0		43,0	35,0	82,0	36,0	371
917.1276	34,0		46,0	37,0	82,0	37,0	455
917.1287		3/8"	15,0	16,0	76,0	13,0	90
917.1288		7/16"	17,0	17,0	76,0	13,0	100
917.1277		1/2"	19,0	23,0	77,0	16,0	109
917.1278		9/16"	21,0	23,0	77,0	17,0	112
917.1279		5/8"	23,0	24,0	77,0	18,0	94
917.1280		11/16"	25,0	25,0	77,0	18,0	122
917.1281		3/4"	27,0	26,0	82,0	22,0	139
917.1282		13/16"	29,0	29,0	82,0	22,0	156
917.1283		7/8"	31,0	29,0	82,0	24,0	179
917.1284		15/16"	33,0	29,0	82,0	26,0	250
917.1289		1"	35,0	34,0	76,0	19,0	270
917.5348		1.1/16"	36,5	36,5	82,0	32,0	290
917.5349		1.1/8"	38,0	38,0	82,0	32,0	300
917.5351		1.1/4"	43,0	43,0	82,0	32,0	380

12 Point socket set, deep

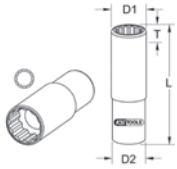
- 12 point
- FlankTraction profile
- According to DIN 3124 / ISO 2725-1
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Long execution
- For manual operation
- Matt finish
- Chrome vanadium
- Includes storage rail

1/2"

			kg
917.1750	10 pcs	10 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 21 mm	1,50

CHROME*plus*® 12 Point socket, deep

- 12 point
- FlankTraction profile
- According to DIN 3124 / ISO 2725-1
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Long execution
- For manual operation
- Mirror polished
- Chrome vanadium



1/2"

	○ mm	○	D1 mm	D2 mm	L mm	T mm	g
918.1666	10,0		16,0	16,0	76,0	13,0	110
918.1668	11,0		17,0	17,0	76,0	13,0	110
918.1678	12,0		18,0	18,0	76,0	13,0	110
918.1679	13,0		19,0	19,0	76,0	13,0	120
918.1683	14,0		21,0	21,0	76,0	13,0	120
918.1684	15,0		22,0	22,0	76,0	15,0	140
918.1698	16,0		23,0	24,0	76,0	15,0	140
918.1711	17,0		24,0	24,0	76,0	15,0	140
918.1712	18,0		26,0	26,0	76,0	17,0	150
918.1713	19,0		27,0	27,0	76,0	17,0	150
918.1714	20,0		27,0	28,0	76,0	17,0	150
918.1715	21,0		27,0	28,0	76,0	19,0	190
918.1716	22,0		28,0	30,0	76,0	19,0	200
918.1717	24,0		30,0	32,0	76,0	19,0	250
918.1718	27,0		34,0	36,0	76,0	19,0	280
918.1719	30,0		35,0	37,0	76,0	21,0	300
918.1731	32,0		36,0	38,0	76,0	23,0	310
918.1734	34,0		45,0	36,5	76,0	37,0	430
918.1735		3/8"	15,0	16,0	76,0	13,0	90
918.1736		7/16"	17,0	17,0	76,0	13,0	100
918.1737		1/2"	19,0	19,0	76,0	13,0	120
918.1285		9/16"	21,0	21,0	76,0	13,0	109
918.1284		5/8"	22,5	24,0	76,0	16,0	120
918.1286		11/16"	25,0	24,0	76,0	17,0	150
918.1287		3/4"	30,0	27,0	76,0	17,0	180
918.1288		13/16"	28,5	28,5	76,0	22,0	195
918.1289		7/8"	31,0	30,0	76,0	19,0	240
918.1738		15/16"	33,0	32,0	76,0	19,0	212
918.1298		1"	35,0	34,0	76,0	19,0	270
918.5348		1.1/16"	36,5	36,5	82,0	32,0	290
918.5349		1.1/8"	38,0	38,0	82,0	32,0	300
918.5351		1.1/4"	43,0	43,0	82,0	32,0	380

CHROME*plus*® 12 Point socket set, deep

- 6 point
- FlankTraction profile
- According to DIN 3124 / ISO 2725
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Long execution
- For manual operation
- Mirror polished
- Chrome vanadium
- Includes storage rail

1/2"

			kg
918.0660	10 pcs	10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm	0,74

Torx E Socket

- Torx E
- Internal square to DIN 3120 / ISO 1174 with ball reception
- For manual operation
- Matt finish
- Chrome vanadium

1/2"

		L mm	D1 mm	D2 mm	T mm	g
911.4333	E10	38,0	14,0	23,0	16,0	50
911.4334	E11	38,0	14,0	23,0	16,0	50
911.4335	E12	38,0	16,0	23,0	16,0	55
911.4336	E14	38,0	17,0	23,0	13,0	55
911.4322	E16	38,0	19,0	23,0	13,0	60
911.4323	E18	40,0	21,0	25,0	14,0	65
911.4324	E20	40,0	24,0	25,0	14,0	70
911.4325	E22	40,0	26,0	25,0	14,0	80
911.4326	E24	42,0	29,0	26,0	16,0	85

Torx E Socket set

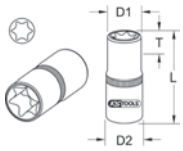
- Torx E
- Internal square to DIN 3120 / ISO 1174 with ball reception
- For manual operation
- Matt finish
- Chrome vanadium
- In durable steel storage case

1/2"

			kg
911.4410	9 pcs	E10 - E11 - E12 - E14 - E16 - E18 - E20 - E22 - E24	1,00

CHROME*plus*® Torx E Socket

- Torx E
- Internal square to DIN 3120 / ISO 1174 with ball reception
- For manual operation
- Mirror polished
- Chrome vanadium



1/2"

		L mm	D1 mm	D2 mm	T mm	g	
918.1276	E10	38,0	14,0	23,0	16,0	50	
918.1733	E11	38,0	14,0	23,0	16,0	50	
918.1278	E12	38,0	16,0	23,0	16,0	55	
918.1277	E14	38,0	17,0	23,0	13,0	55	
918.1280	E16	38,0	19,0	23,0	13,0	60	
918.1281	E18	40,0	21,0	25,0	14,0	65	
918.1282	E20	40,0	24,0	25,0	14,0	70	
918.1294	E22	40,0	26,0	25,0	14,0	80	
918.1295	E24	42,0	29,0	26,0	16,0	85	

CHROME*plus*® Torx E Socket set

- Torx E
- Internal square to DIN 3120 / ISO 1174 with ball reception
- For manual operation
- Mirror polished
- Chrome vanadium
- In durable steel storage case

1/2"

			kg	
918.4410	9 pcs	E10 - E11 - E12 - E14 - E16 - E18 - E20 - E22 - E24	1,00	

Torx E Socket, deep

- Torx E
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Long execution
- For manual operation
- Matt finish
- Chrome vanadium

1/2"

		L mm	D1 mm	D2 mm	T mm	g	
911.4423	E10	78,0	14,0	25,0	8,0	100	
911.4424	E11	78,0	15,0	25,0	12,0	100	
911.4425	E12	78,0	16,0	25,0	12,0	110	
911.4426	E14	78,0	17,0	25,0	13,0	100	
911.4427	E16	78,0	18,0	25,0	14,0	115	
911.4428	E18	78,0	20,0	25,0	16,0	130	
911.4429	E20	78,0	24,0	25,0	17,0	160	
911.4430	E22	78,0	26,0	25,0	17,0	195	
911.4431	E24	78,0	28,0	25,0	18,0	230	

Torx E Socket set, deep

- Torx E
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Long execution
- For manual operation
- Matt finish
- Chrome vanadium
- In durable plastic storage case

1/2"

			kg	
911.4420	8 pcs	E10 - E12 - E14 - E16 - E18 - E20 - E22 - E24	1,00	

CHROME*plus*® Torx E Socket, deep

- Torx E
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Long execution
- For manual operation
- Mirror polished
- Chrome vanadium

1/2"

		L mm	D1 mm	D2 mm	T mm	g	
918.1761	E10	78,0	14,0	25,0	8,0	100	
918.1762	E11	78,0	15,0	25,0	12,0	100	
918.1763	E12	78,0	16,0	25,0	12,0	110	
918.1764	E14	78,0	17,0	25,0	13,0	100	
918.1765	E16	78,0	18,0	25,0	14,0	115	
918.1766	E18	78,0	20,0	25,0	16,0	130	
918.1767	E20	78,0	24,0	25,0	17,0	160	
918.1768	E22	78,0	26,0	25,0	17,0	195	
918.1769	E24	78,0	28,0	25,0	18,0	230	

CHROME*plus*® Torx E Socket set, deep

- Torx E
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Long execution
- For manual operation
- Mirror polished
- Chrome vanadium
- In durable plastic storage case

1/2"

			kg	
918.4420	8 pcs	E10 - E12 - E14 - E16 - E18 - E20 - E22 - E24	1,00	

1/2" INSERTABLE OPEN-ENDED WRENCH

Insertable open-ended wrench

- For tightening and loosening pipe connections
- For manual operation
- Internal square drive adaptor to DIN 3120 / ISO 1174
- Special tool steel

	□	⬢ mm	g	
913.1941	3/8"	18	140	
913.1942	3/8"	22	150	
913.1943	3/8"	24	160	
913.1944	1/2"	27	170	
913.1945	1/2"	32	180	
913.1946	1/2"	34	220	
913.1947	1/2"	36	230	
913.1948	1/2"	37	240	
913.1949	1/2"	38	280	
913.1950	1/2"	41	380	

12 point crawfoot wrench

- 12 point
- For tightening and loosening pipe connections
- For manual operation
- Slim execution
- For difficult to access areas
- Burnished
- Special tool steel
- In durable plastic storage case

	□	mm	g
913.1302	1/2"	21	94
913.1303	1/2"	22	112
913.1304	1/2"	24	120
913.1305	1/2"	27	153
913.1306	1/2"	30	170
913.1307	1/2"	32	168

12 point crawfoot wrench set

- 12 point
- Internal square drive
- For tightening and loosening pipe connections
- For manual operation
- Slim execution
- For difficult to access areas
- Burnished
- Special tool steel
- In durable plastic storage case

			g
913.1300	10 pcs	12 point crawfoot wrench set	2,14

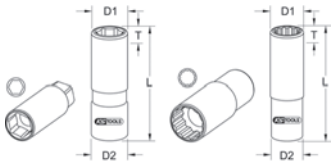
consists of:

		g
913.1301	3/8" 12 point crawfoot wrench, 19mm	62
913.1302	1/2" 12 point crawfoot wrench, 21mm	94
913.1303	1/2" 12 point crawfoot wrench, 22mm	112
913.1304	1/2" 12 point crawfoot wrench, 24mm	120
913.1305	1/2" 12 point crawfoot wrench, 27mm	153
913.1306	1/2" 12 point crawfoot wrench, 30mm	170
913.1307	1/2" 12 point crawfoot wrench, 32mm	168
913.1308	3/4" 12 point crawfoot wrench, 36mm	337
913.1309	3/4" 12 point crawfoot wrench, 41mm	400
913.1310	3/4" 12 point crawfoot wrench, 46mm	632

1/2" SPARK PLUG SOCKETS

Socket for spark plugs

- DIN 3124 / ISO 3315
- FlankTraction profile
- Internal square to DIN 3120 / ISO 1174 with ball reception
- With rubber stop for holding the spark plugs
- Long execution
- For manual operation
- Matt finish
- Chrome vanadium

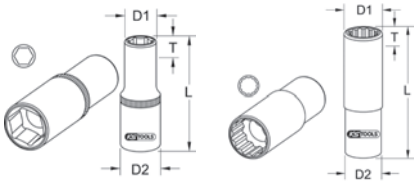


1/2"

	Profile	mm		D1 mm	D2 mm	L mm	T mm	g
911.1590	○	14,0		22,0	22,0	65,0	16,0	60
911.1205	○	16,0		22,0	22,0	65,0	26,0	60
911.1512	○	18,0		26,0	21,0	65,0	23,0	60
911.1206	○	21,0		28,0	24,0	65,0	26,0	60
911.1513	○		13/16"	28,0	24,0	65,0	23,0	60
911.1514	○		5/8"	22,0	22,0	65,0	18,0	60

CHROME*plus*® spark plug-socket

- DIN 3124 / ISO 3315
- FlankTraction profile
- Internal square to DIN 3120 / ISO 1174 with ball reception
- With rubber stop for holding the spark plugs
- Long execution
- For manual operation
- Mirror polished
- Chrome vanadium

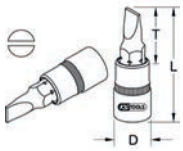


	Profile	mm		D1 mm	D2 mm	L mm	T mm	g
918.1390	○	14,0		22,0	22,0	65,0	16,0	60
918.1205	○	16,0		22,0	22,0	65,0	26,0	60
918.1207	○	18,0		26,0	21,0	65,0	23,0	60
918.1206	○	21,0		28,0	24,0	65,0	26,0	60
918.1391	○		5/8"	28,0	24,0	65,0	23,0	60
918.1392	○		13/16"	22,0	22,0	65,0	18,0	60

1/2" BIT SOCKETS

Bit socket for slotted screws

- Slotted
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- with press-fitted nickel-plated bit
- For manual operation
- Matt finish
- Chrome vanadium

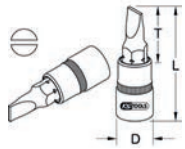


1/2"

	mm	D mm	L mm	T mm	g
917.1391	6,5	23,0	60,0	22,0	50
917.5343	7,0	23,0	60,0	22,0	50
917.1392	8,0	23,0	60,0	22,0	55
917.1393	10,0	23,0	60,0	22,0	60
917.1394	12,0	23,0	60,0	22,0	65
917.1395	14,0	25,0	60,0	20,0	80
917.1396	16,0	28,0	60,0	20,0	95
917.1311	18,0	27,0	60,0	20,0	110

CHROME*plus*® Bit socket for slotted screws

- Slotted
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- with press-fitted nickel-plated bit
- For manual operation
- Mirror polished
- Chrome vanadium

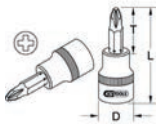


1/2"

	mm	D mm	L mm	T mm	g
918.5342	6,5	23,0	60,0	22,0	50
918.1790	7,0	23,0	60,0	22,0	50
918.1791	8,0	23,0	60,0	22,0	55
918.1792	10,0	23,0	60,0	22,0	60
918.1793	12,0	23,0	60,0	22,0	65
918.1794	14,0	25,0	60,0	20,0	80
918.1795	16,0	28,0	60,0	20,0	95
918.1796	18,0	27,0	60,0	20,0	110

Bit socket for phillips screws PH

- PH
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- with press-fitted nickel-plated bit
- For manual operation
- Matt finish
- Chrome vanadium

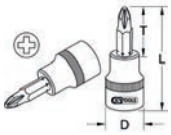


1/2"

		D mm	L mm	T mm	g
917.1397	PH 1	24,0	55,0	18,0	80
917.1398	PH 2	24,0	55,0	18,0	80
917.1399	PH 3	24,0	55,0	18,0	80
917.1301	PH 4	24,0	55,0	18,0	80

CHROME*plus*® Bit socket for phillips screws PH

- PH
- For Phillips head screw
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- with press-fitted nickel-plated bit
- For manual operation
- Mirror polished
- Chrome vanadium

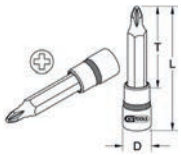


1/2"

		D mm	L mm	T mm	g
918.1635	PH 1	24,0	55,0	18,0	80
918.1636	PH 2	24,0	55,0	18,0	80
918.1637	PH 3	24,0	55,0	18,0	80
918.1739	PH 4	24,0	55,0	18,0	80

Bit socket for phillips screws PH, long

- PH
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- with press-fitted nickel-plated bit
- Long execution
- For manual operation
- Matt finish
- Chrome vanadium

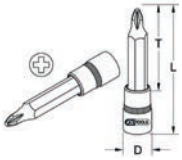


1/2"

		D mm	L mm	T mm	g
917.1388	PH 1	22,0	110,0	72,0	120
917.1389	PH 2	22,0	110,0	72,0	120
917.1390	PH 3	22,0	110,0	72,0	120
917.1302	PH 4	22,0	110,0	72,0	125

CHROME*plus*® Bit socket for phillips screws PH, long

- PH
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- with press-fitted nickel-plated bit
- Long execution
- For manual operation
- Mirror polished
- Chrome vanadium

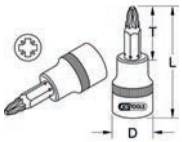


1/2"

		D mm	L mm	T mm	g
918.1685	PH 1	22,0	110,0	72,0	120
918.1686	PH 2	22,0	110,0	72,0	120
918.1687	PH 3	22,0	110,0	72,0	120
918.1756	PH 4	22,0	110,0	72,0	125

Bit socket for pozidriv screws PZ

- PZ
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- with press-fitted nickel-plated bit
- For manual operation
- Matt finish
- Chrome vanadium

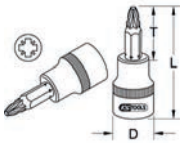


1/2"

		D mm	L mm	T mm	g
917.1697	PZ 1	24,0	55,0	18,0	80
917.1698	PZ 2	24,0	55,0	18,0	80
917.1699	PZ 3	24,0	55,0	18,0	80
917.1303	PZ 4	24,0	55,0	18,0	85

CHROME*plus*® Bit socket for pozidriv screws PZ

- PZ
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- with press-fitted nickel-plated bit
- For manual operation
- Mirror polished
- Chrome vanadium

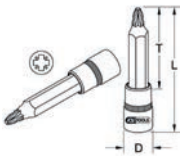


1/2"

		D mm	L mm	T mm	g
918.1680	PZ 1	24,0	55,0	18,0	70
918.1681	PZ 2	24,0	55,0	18,0	70
918.1682	PZ 3	24,0	55,0	18,0	70
918.1757	PZ 4	24,0	55,0	18,0	85

Bit socket for pozidriv screws PZ, long

- PZ
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- with press-fitted nickel-plated bit
- Long execution
- For manual operation
- Matt finish
- Chrome vanadium



1/2"

		D mm	L mm	T mm	g
917.1325	PZ 1	21,0	110,0	72,0	110
917.1326	PZ 2	21,0	110,0	72,0	110
917.1327	PZ 3	21,0	110,0	72,0	110
917.1305	PZ 4	21,0	110,0	72,0	110

CHROME*plus*® Bit socket for pozidriv screws PZ, long

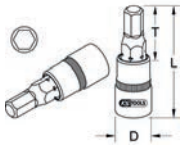
- PZ
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- with press-fitted nickel-plated bit
- Long execution
- For manual operation
- Mirror polished
- Chrome vanadium

1/2"

		D mm	L mm	T mm	g
918.1688	PZ 1	22,0	110,0	72,0	110
918.1689	PZ 2	22,0	110,0	72,0	110
918.1690	PZ 3	22,0	110,0	72,0	110
918.1758	PZ 4	21,0	110,0	72,0	110

Bit socket for hexagon screws

- Hexagon socket
- In accordance with DIN 7422
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Short execution
- with press-fitted nickel-plated bit
- For manual operation
- Matt finish
- Chrome vanadium



1/2"

	mm		D mm	L mm	T mm	g
911.1304	4,0		22,0	55,0	17,0	68
911.1305	5,0		22,0	55,0	17,0	68
911.1306	6,0		22,0	55,0	17,0	68
911.1307	7,0		22,0	55,0	17,0	70
911.1308	8,0		22,0	55,0	17,0	71
911.1309	9,0		22,0	55,0	17,0	74
911.1310	10,0		22,0	55,0	17,0	76
911.5301	11,0		22,0	55,0	17,0	80
911.1312	12,0		22,0	55,0	17,0	88
911.5302	13,0		22,0	90,0	17,0	90
911.1314	14,0		22,0	55,0	17,0	113
911.1317	17,0		22,0	55,0	17,0	150
911.1319	19,0		22,0	55,0	17,0	182
911.1322	22,0		22,0	55,0	17,0	195
911.1324	24,0		22,0	55,0	17,0	210
917.1316		3/16"	22,0	55,0	17,0	70
917.1317		7/32"	22,0	55,0	17,0	70
917.1318		1/4"	22,0	55,0	17,0	70
917.1319		9/32"	22,0	55,0	17,0	70
917.1320		5/16"	22,0	55,0	17,0	70
917.1321		3/8"	22,0	55,0	17,0	74
917.1322		1/2"	22,0	55,0	17,0	80
917.1323		9/16"	22,0	55,0	17,0	115
917.1324		5/8"	22,0	55,0	17,0	148
911.5304		3/4"	22,0	55,0	17,0	180

Bit socket set for hexagon screws

- Hexagon socket
- In accordance with DIN 7422
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Short execution
- with press-fitted nickel-plated bit
- For manual operation
- Matt finish
- Chrome vanadium
- Includes storage rail

1/2"

			kg
911.1320	7 pcs	5 - 6 - 7 - 8 - 10 - 12 - 14 mm	0,65

Bit socket set for hexagon screws

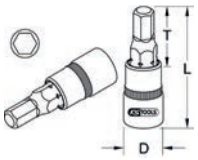
- Hexagon socket
- In accordance with DIN 7422
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Short execution
- with press-fitted nickel-plated bit
- For manual operation
- Matt finish
- Chrome vanadium
- In durable steel storage case

1/2"

			kg
911.1321	9 pcs	4 - 5 - 6 - 7 - 8 - 10 - 12 - 14 - 17 mm	2,30

CHROME*plus*® Bit socket for hexagon screws

- Hexagon socket
- In accordance with DIN 7422
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Short execution
- with press-fitted nickel-plated bit
- For manual operation
- Mirror polished
- Chrome vanadium



1/2"

	mm		D mm	L mm	T mm	g
918.1604	4,0		22,0	55,0	17,0	70
918.1605	5,0		22,0	55,0	17,0	70
918.1606	6,0		22,0	55,0	17,0	70
918.1607	7,0		22,0	55,0	17,0	70
918.1608	8,0		22,0	55,0	17,0	70
918.1609	9,0		22,0	55,0	17,0	70
918.1610	10,0		22,0	55,0	17,0	80
918.5301	11,0		22,0	55,0	17,0	80
918.1612	12,0		22,0	55,0	17,0	100
918.5302	13,0		22,0	55,0	17,0	90
918.1614	14,0		22,0	55,0	17,0	110
918.1617	17,0		22,0	55,0	17,0	150
918.1619	19,0		22,0	55,0	17,0	170
918.1631	22,0		22,0	55,0	17,0	180
918.1633	24,0		22,0	55,0	17,0	190
918.1701		3/16"	22,0	55,0	17,0	60
918.1702		7/32"	22,0	55,0	17,0	70
918.1703		1/4"	22,0	55,0	17,0	70
918.1704		9/32"	22,0	55,0	17,0	70
918.1705		5/16"	22,0	55,0	17,0	85
918.1706		3/8"	22,0	55,0	17,0	90
918.1707		1/2"	22,0	55,0	17,0	100
918.1708		9/16"	22,0	55,0	17,0	110
918.1709		5/8"	22,0	55,0	17,0	150
918.5304		3/4"	22,0	55,0	17,0	180

CHROME*plus*® Bit socket set for hexagon screws

- Hexagon socket
- In accordance with DIN 7422
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Short execution
- with press-fitted nickel-plated bit
- For manual operation
- Mirror polished
- Chrome vanadium
- Includes storage rail

1/2"

			kg
918.1335	7 pcs	5 - 6 - 7 - 8 - 10 - 12 - 14 mm	0,65

CHROME*plus*® Bit socket set for hexagon screws

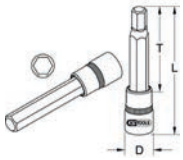
- Hexagon socket
- In accordance with DIN 7422
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Short execution
- with press-fitted nickel-plated bit
- For manual operation
- Mirror polished
- Chrome vanadium
- In durable steel storage case

1/2"

			kg
918.1330	9 pcs	4 - 5 - 6 - 7 - 8 - 10 - 12 - 14 - 17 mm	2,30

Bit socket for hexagon screws, long

- Hexagon socket
- In accordance with DIN 7422
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Long execution
- with press-fitted nickel-plated bit
- For manual operation
- Matt finish
- Chrome vanadium



1/2"

	mm	D mm	L mm	T mm	g
917.1331	4,0	22,0	110,0	72,0	103
911.1325	5,0	22,0	110,0	72,0	105
911.1326	6,0	22,0	110,0	72,0	106
911.1327	7,0	22,0	110,0	72,0	108
911.1328	8,0	22,0	110,0	72,0	108
911.1329	9,0	22,0	110,0	72,0	110
911.1330	10,0	22,0	110,0	72,0	112
911.5353	11,0	22,0	110,0	72,0	115
911.1332	12,0	22,0	110,0	72,0	140
911.5354	13,0	22,0	110,0	72,0	142
917.1332	14,0	24,0	110,0	72,0	185
911.1337	17,0	26,0	110,0	72,0	255
911.1339	19,0	28,0	110,0	72,0	315

Bit socket set for hexagon screws, long

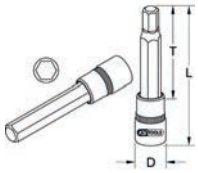
- Hexagon socket
- In accordance with DIN 7422
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Long execution
- with press-fitted nickel-plated bit
- For manual operation
- Matt finish
- Chrome vanadium
- Includes storage rail

1/2"

			kg
911.1336	6 pcs	5 - 6 - 7 - 8 - 10 - 12 mm	0,75

CHROME*plus*® Bit socket for hexagon screws, long

- Hexagon socket
- In accordance with DIN 7422
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Long execution
- with press-fitted nickel-plated bit
- For manual operation
- Mirror polished
- Chrome vanadium



1/2"

	mm	D mm	L mm	T mm	g
918.1654	4,0	22,0	110,0	72,0	103
918.1655	5,0	22,0	110,0	72,0	105
918.1656	6,0	22,0	110,0	72,0	106
918.1657	7,0	22,0	110,0	72,0	108
918.1658	8,0	22,0	110,0	72,0	108
918.1659	9,0	22,0	110,0	72,0	110
918.1660	10,0	22,0	110,0	72,0	112
918.1831	11,0	22,0	110,0	72,0	115
918.1662	12,0	22,0	110,0	72,0	140
918.1832	11,0	22,0	110,0	72,0	142
918.1664	14,0	22,0	110,0	72,0	185
918.1667	17,0	22,0	110,0	72,0	255
918.1669	19,0	22,0	110,0	72,0	315

CHROME*plus*® Bit socket set for hexagon screws, long

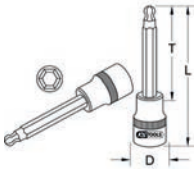
- Hexagon socket
- In accordance with DIN 7422
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Long execution
- with press-fitted nickel-plated bit
- For manual operation
- Mirror polished
- Chrome vanadium
- Includes storage rail

1/2"

			kg
918.1336	6 pcs	5 - 6 - 7 - 8 - 10 - 12 mm	0,88

Bit socket for hexagon screws with ball end, long

- Ball end hexagon socket
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Long execution
- with press-fitted nickel-plated bit
- For manual operation
- Matt finish
- Chrome vanadium



1/2"

	mm	D mm	L mm	T mm	g
911.1655	5,0	22,0	110,0	72,0	105
911.5312	5,0	22,0	240,0	122,0	200
911.1656	6,0	22,0	110,0	72,0	105
911.5315	6,0	22,0	200,0	202,0	200
911.5313	6,0	22,0	240,0	202,0	200
911.1657	7,0	22,0	110,0	72,0	107
911.1658	8,0	22,0	110,0	72,0	107
911.5316	8,0	22,0	200,0	162,0	200
911.5314	8,0	22,0	240,0	202,0	200
911.1659	9,0	22,0	110,0	72,0	110
911.1660	10,0	22,0	110,0	72,0	112
911.5317	10,0	22,0	200,0	162,0	210
911.1662	12,0	22,0	110,0	72,0	138
911.5318	12,0	22,0	200,0	162,0	220
911.5319	14,0	24,0	200,0	162,0	250
911.1667	17,0	26,0	110,0	72,0	249
911.1669	19,0	28,0	110,0	72,0	302

Bit socket set for hexagon screws, long

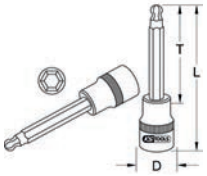
- For Hexagon screws
- With ball end
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Long execution
- with press-fitted nickel-plated bit
- For manual operation
- Matt finish
- Chrome vanadium
- Includes storage rail

1/2"

			kg
911.1650	6 pcs	5 - 6 - 7 - 8 - 10 - 12 mm	0,88

CHROME*plus*® Bit socket for hexagon screws with ball end, long

- Ball end hexagon socket
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Long execution
- with press-fitted nickel-plated bit
- For manual operation
- Mirror polished
- Chrome vanadium



1/2"

	mm	D mm	L mm	T mm	g
918.1771	5,0	22,0	110,0	72,0	104
918.5312	5,0	22,0	240,0	122,0	175
918.1772	6,0	22,0	110,0	72,0	105
918.5315	6,0	22,0	200,0	202,0	150
918.5313	6,0	22,0	240,0	202,0	180
918.1773	7,0	22,0	110,0	72,0	106
918.1774	8,0	22,0	110,0	72,0	107
918.5316	8,0	22,0	200,0	162,0	155
918.5314	8,0	22,0	240,0	202,0	190
918.1775	9,0	22,0	110,0	72,0	130
918.1776	10,0	22,0	110,0	72,0	130
918.5317	10,0	22,0	200,0	162,0	162
918.1777	12,0	22,0	110,0	72,0	138
918.5318	12,0	22,0	200,0	162,0	165
918.5319	14,0	24,0	200,0	162,0	170
918.1778	17,0	22,0	110,0	72,0	248
918.1779	19,0	22,0	110,0	72,0	300

CHROME*plus*® Bit socket set for hexagon screws, long

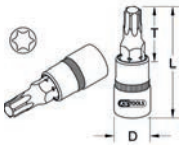
- For Hexagon screws
- With ball end
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Long execution
- with press-fitted nickel-plated bit
- For manual operation
- Mirror polished
- Chrome vanadium
- Includes storage rail

1/2"

			kg
918.1665	6 pcs	5 - 6 - 7 - 8 - 10 - 12 mm	0,88

Bit socket for Torx screws

- Torx
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- with press-fitted nickel-plated bit
- For manual operation
- Matt finish
- Chrome vanadium



1/2"

		D mm	L mm	T mm	g
917.1333	T10	22,0	55,0	17,0	80
917.1334	T15	22,0	55,0	17,0	80
911.1361	T20	22,0	55,0	17,0	70
911.1362	T25	22,0	55,0	17,0	700
911.1363	T27	22,0	55,0	17,0	710
911.1364	T30	22,0	55,0	17,0	710
911.1365	T40	22,0	55,0	17,0	730
911.1366	T45	22,0	55,0	17,0	90
911.1367	T50	22,0	55,0	17,0	90
911.1368	T55	22,0	55,0	17,0	770
911.1369	T60	22,0	55,0	17,0	90
911.1370	T70	22,0	55,0	17,0	110

Bit socket set for Torx screws

- Torx
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Short execution
- With press fitted insert bit
- For manual operation
- Matt finish
- Chrome vanadium
- In durable steel storage case

1/2"

			kg
911.1385	9 pcs	T20 - T25 - T27 - T30 - T40 - T45 - T50 - T55 - T60	1,50

CHROME*plus*® Bit socket for Torx screws

- Torx
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- with press-fitted nickel-plated bit
- For manual operation
- Mirror polished
- Chrome vanadium

1/2"

		D mm	L mm	T mm	g
918.1620	T10	22,0	55,0	17,0	67
918.1621	T15	22,0	55,0	17,0	67
918.1622	T20	22,0	55,0	17,0	67
918.1623	T25	22,0	55,0	17,0	67
918.1624	T27	22,0	55,0	17,0	67
918.1625	T30	22,0	55,0	17,0	68
918.1626	T40	22,0	55,0	17,0	69
918.1627	T45	22,0	55,0	17,0	70
918.1628	T50	22,0	55,0	17,0	70
918.1629	T55	22,0	55,0	17,0	73
918.1630	T60	22,0	55,0	17,0	86
918.1632	T70	22,0	55,0	17,0	110

CHROME*plus*® Bit socket set for Torx screws

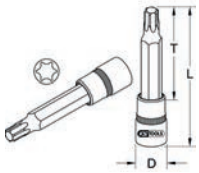
- Torx
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- with press-fitted nickel-plated bit
- For manual operation
- Mirror polished
- Chrome vanadium
- In durable steel storage case

1/2"

			kg
918.1385	9 pcs	T20 - T25 - T27 - T30 - T40 - T45 - T50 - T55 - T60	1,50

Bit socket for Torx screws, long

- Torx
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Long execution
- with press-fitted nickel-plated bit
- For manual operation
- Matt finish
- Chrome vanadium



1/2"

		D mm	L mm	T mm	g
911.1518	T10	22,0	110,0	72,0	102
911.1519	T15	22,0	110,0	72,0	102
911.1521	T20	22,0	110,0	72,0	104
911.1522	T25	22,0	110,0	72,0	104
911.1523	T27	22,0	110,0	72,0	104
911.1524	T30	22,0	110,0	72,0	105
911.1525	T40	22,0	110,0	72,0	105
911.1526	T45	22,0	110,0	72,0	109
911.1527	T50	22,0	110,0	72,0	108
911.1528	T55	22,0	110,0	72,0	110
911.1529	T60	22,0	110,0	72,0	135
911.1517	T70		110,0	72,0	180
911.5308	T80	26,0	110,0	72,0	240

Bit socket set for Torx screws, long

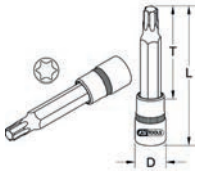
- Torx
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Long execution
- With press fitted insert bit
- For manual operation
- Matt finish
- Chrome vanadium
- Includes storage rail

1/2"

			kg
911.1520	9 pcs	T20 - T25 - T27 - T30 - T40 - T45 - T50 - T55 - T60	1,24

CHROME*plus*® Bit socket for Torx screws, long

- Torx
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Long execution
- with press-fitted nickel-plated bit
- For manual operation
- Mirror polished
- Chrome vanadium



1/2"

		D mm	L mm	T mm	g
918.1640	T10	22,0	110,0	72,0	120
918.1641	T15	22,0	110,0	72,0	120
918.1642	T20	22,0	110,0	72,0	120
918.1643	T25	22,0	110,0	72,0	120
918.1644	T27	22,0	110,0	72,0	120
918.1645	T30	22,0	110,0	72,0	120
918.1646	T40	22,0	110,0	72,0	120
918.1647	T45	22,0	110,0	72,0	120
918.1648	T50	22,0	110,0	72,0	120
918.1649	T55	22,0	110,0	72,0	130
918.1650	T60	22,0	110,0	72,0	150
918.1651	T70	22,0	110,0	72,0	180
918.5308	T80	22,0	110,0	72,0	240

CHROME*plus*® Bit socket set for Torx screws, long

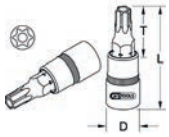
- Torx
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Long execution
- with press-fitted nickel-plated bit
- For manual operation
- Mirror polished
- Chrome vanadium
- Includes storage rail

1/2"

			kg
918.1317	9 pcs	T20 - T25 - T27 - T30 - T40 - T45 - T50 - T55 - T60	1,24

Bit socket for Torx tamperproof screws

- For tamperproof Torx
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- with press-fitted nickel-plated bit
- For manual operation
- Matt finish
- Chrome vanadium



1/2"

		D mm	L mm	T mm	g
917.1335	TB10	22,0	55,0	17,0	65
917.1336	TB15	22,0	55,0	17,0	66
911.1371	TB20	22,0	55,0	17,0	90
911.1372	TB25	22,0	55,0	17,0	90
911.1373	TB27	22,0	55,0	17,0	90
911.1374	TB30	22,0	55,0	17,0	90
911.1375	TB40	22,0	55,0	17,0	90
911.1376	TB45	22,0	55,0	17,0	90
911.1377	TB50	22,0	55,0	17,0	90
911.1378	TB55	22,0	55,0	17,0	90
911.1379	TB60	22,0	55,0	17,0	90
911.1380	TB70	22,0	55,0	17,0	107

Bit socket set for Torx tamperproof screws

- For tamperproof Torx
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- With press fitted insert bit
- For manual operation
- Matt finish
- Chrome vanadium
- In durable steel storage case

1/2"

			kg
911.1386	9 pcs	TB20 - TB25 - TB27 - TB30 - TB40 - TB45- TB50 - TB55 - TB60	1,50

CHROME*plus*® Bit socket for Torx tamperproof screws

- For tamperproof Torx
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- with press-fitted nickel-plated bit
- For manual operation
- Mirror polished
- Chrome vanadium

1/2"

		D mm	L mm	T mm	g
918.1720	TB10	18,0	55,0	24,0	80
918.1721	TB15	18,0	55,0	24,0	80
918.1722	TB20	18,0	55,0	24,0	68
918.1723	TB25	18,0	55,0	24,0	68
918.1724	TB27	18,0	55,0	24,0	68
918.1725	TB30	18,0	55,0	24,0	68
918.1726	TB40	18,0	55,0	24,0	69
918.1727	TB45	18,0	55,0	24,0	70
918.1728	TB50	18,0	55,0	24,0	70
918.1729	TB55	18,0	55,0	24,0	72
918.1730	TB60	18,0	55,0	24,0	84
918.1732	TB70	18,0	55,0	24,0	107

CHROME*plus*® Bit socket set for Torx tamperproof screws

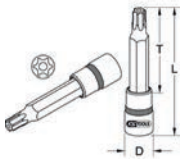
- For tamperproof Torx
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Short execution
- with press-fitted nickel-plated bit
- For manual operation
- Mirror polished
- Chrome vanadium
- In durable steel storage case

1/2"

			kg
918.1386	9 pcs	TB20 - TB25 - TB27 - TB30 - TB40 - TB45- TB50 - TB55 - TB60	1,50

Bit socket for Torx tamperproof screws, long

- For tamperproof Torx
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Long execution
- with press-fitted nickel-plated bit
- For manual operation
- Matt finish
- Chrome vanadium



1/2"

		D mm	L mm	T mm	g
917.1291	TB10	22,0	110,0	72,0	115
917.1292	TB15	22,0	110,0	72,0	115
917.1293	TB20	22,0	110,0	72,0	120
917.1294	TB25	22,0	110,0	72,0	120
917.1295	TB27	22,0	110,0	72,0	120
917.1296	TB30	22,0	110,0	72,0	130
917.1297	TB40	22,0	110,0	72,0	130
917.1298	TB45	22,0	110,0	72,0	130
917.1299	TB50	22,0	110,0	72,0	150
917.1251	TB55	22,0	110,0	72,0	150
917.1253	TB60	22,0	110,0	72,0	150
917.1304	TB70	22,0	110,0	72,0	155

Bit socket set for Torx tamperproof screws, long

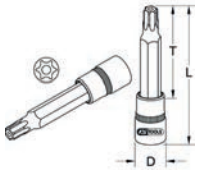
- For tamperproof Torx
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Long execution
- with press-fitted nickel-plated bit
- For manual operation
- Matt finish
- Chrome vanadium
- Includes storage rail

1/2"

			kg
917.1790	9 pcs	TB20 - TB25 - TB27 - TB30 - TB40 - TB45 - TB50 - TB55 - TB60	1,50

CHROME*plus*® Bit socket for Torx tamperproof screws, long

- For tamperproof Torx
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- with press-fitted nickel-plated bit
- For manual operation
- Mirror polished
- Chrome vanadium



1/2"

		D mm	L mm	T mm	g
918.1740	TB10	22,0	110,0	72,0	115
918.1741	TB15	22,0	110,0	72,0	115
918.1742	TB20	22,0	110,0	72,0	120
918.1743	TB25	22,0	110,0	72,0	120
918.1744	TB27	22,0	110,0	72,0	120
918.1745	TB30	22,0	110,0	72,0	130
918.1746	TB40	22,0	110,0	72,0	130
918.1747	TB45	22,0	110,0	72,0	130
918.1748	TB50	22,0	110,0	72,0	150
918.1749	TB55	22,0	110,0	72,0	150
918.1750	TB60	22,0	110,0	72,0	150
918.1759	TB70	22,0	110,0	72,0	155

CHROME*plus*® Bit socket set for Torx tamperproof screws, long

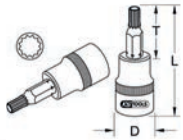
- Torx
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Long execution
- with press-fitted nickel-plated bit
- For manual operation
- Mirror polished
- Chrome vanadium
- Includes storage rail

1/2"

			kg
918.1890	9 pcs	TB20 - TB25 - TB27 - TB30 - TB40 - TB45 - TB50 - TB55 - TB60	1,50

Bit socket for spline (XZN®) screws

- Spline (XZN®)
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- with press-fitted nickel-plated bit
- For manual operation
- Matt finish
- Chrome vanadium



1/2"

		D mm	L mm	T mm	g
911.5305	M4	22,0	55,0	17,0	65
911.1340	M5	22,0	55,0	17,0	68
911.1341	M6	22,0	55,0	17,0	69
911.1347	M7	22,0	55,0	17,0	69
911.1342	M8	22,0	55,0	17,0	71
911.1313	M9	22,0	55,0	17,0	71
911.1343	M10	22,0	55,0	17,0	72
911.1344	M12	22,0	55,0	17,0	85
911.1345	M14	24,0	55,0	17,0	105
911.1346	M16	26,0	55,0	17,0	140
911.5306	M17	22,0	55,0	17,0	143
911.5307	M18	22,0	55,0	17,0	145

Bit socket for spline (XZN®) screws

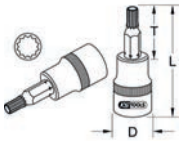
- Spline (XZN®)
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- With press fitted insert bit
- For manual operation
- Matt finish
- Chrome vanadium
- Includes storage rail

1/2"

			kg
911.1349	6 pcs	M5 - M6 - M8 - M10 - M12 - M14	0,59

CHROME*plus*® Bit socket for spline (XZN®) screws

- Spline (XZN®)
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- with press-fitted nickel-plated bit
- For manual operation
- Mirror polished
- Chrome vanadium



1/2"

		D mm	L mm	T mm	g
918.5305	M4	22,0	55,0	17,0	65
918.1671	M5	22,0	55,0	17,0	70
918.1672	M6	22,0	55,0	17,0	70
918.1673	M8	22,0	55,0	17,0	70
918.1797	M9	22,0	55,0	17,0	95
918.1674	M10	22,0	55,0	17,0	80
918.1675	M12	22,0	55,0	17,0	100
918.1676	M14	22,0	55,0	17,0	110
918.1677	M16	22,0	55,0	17,0	140
918.5306	M17	26,0	55,0	17,0	143
918.5307	M18	28,0	55,0	17,0	145

CHROME*plus*® Bit socket set for spline (XZN®) screws

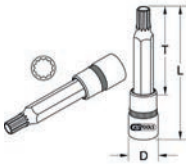
- Spline (XZN®)
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- with press-fitted nickel-plated bit
- For manual operation
- Mirror polished
- Chrome vanadium
- Includes storage rail

1/2"

			kg
918.1349	6 pcs	M5 - M6 - M8 - M10 - M12 - M14	0,59

Bit socket for spline (XZN®) screws, long

- Spline (XZN®)
- For loosening and tightening cylinder head screws
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Long execution
- with press-fitted nickel-plated bit
- For manual operation
- Matt finish
- Chrome vanadium



1/2"

		D mm	L mm	T mm	g
911.1350	M5	22,0	110,0	72,0	107
911.1351	M6	22,0	110,0	72,0	109
911.1352	M8	22,0	110,0	72,0	109
911.1359	M9	22,0	110,0	72,0	112
911.1353	M10	22,0	110,0	72,0	112
911.1354	M12	22,0	110,0	72,0	138
911.1355	M14	22,0	110,0	72,0	179
911.1356	M16	22,0	110,0	72,0	250

Bit socket set for spline (XZN®) screws, long

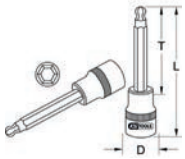
- Spline (XZN®)
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Long execution
- With press fitted insert bit
- For manual operation
- Matt finish
- Chrome vanadium
- Includes storage rail

1/2"

			kg
911.1358	6 pcs	M5 - M6 - M8 - M10 - M12 - M14	0,75

CHROME*plus*® Bit socket for spline (XZN®) screws, long

- Spline (XZN®)
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Long execution
- with press-fitted nickel-plated bit
- For manual operation
- Mirror polished
- Chrome vanadium



1/2"

		D mm	L mm	T mm	g
918.1691	M5	22,0	110,0	72,0	120
918.1692	M6	22,0	110,0	72,0	120
918.1693	M8	22,0	110,0	72,0	120
918.1699	M9	22,0	110,0	72,0	130
918.1694	M10	22,0	110,0	72,0	120
918.1695	M12	22,0	110,0	72,0	150
918.1696	M14	22,0	110,0	72,0	180
918.1697	M16	22,0	110,0	72,0	190

CHROME*plus*® Bit socket set for spline (XZN®) screws, long

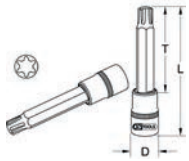
- Spline (XZN®)
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Long execution
- with press-fitted nickel-plated bit
- For manual operation
- Mirror polished
- Chrome vanadium
- Includes storage rail

1/2"

			kg
918.1358	6 pcs	M5 - M6 - M8 - M10 - M12 - M14	0,93

Bit socket for RIBE® screws, long

- RIBE®
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Long execution
- with press-fitted nickel-plated bit
- For manual operation
- Matt finish
- Chrome vanadium



1/2"

	D	L mm	D mm	T mm	g
911.1921	M5	110,0	22,0	10,0	108
911.1922	M6	110,0	22,0	10,0	108
911.1923	M7	110,0	22,0	10,0	109
911.1993	M7	240,0	22,0	10,0	175
911.1924	M8	110,0	22,0	10,0	109
911.1994	M8	240,0	22,0	10,0	175
911.1925	M9	110,0	22,0	10,0	112
911.1926	M10	110,0	22,0	10,0	112
911.1980	M10	140,0	22,0	10,0	194
911.1995	M12	110,0	24,0	14,0	175
911.1996	M13	110,0	24,0	14,0	175
911.1997	M14	110,0	24,0	14,0	175

Bit socket set for RIBE® screws, long

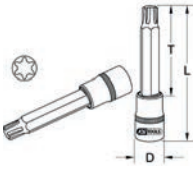
- For tamperproof RIBE® profile
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Long execution
- With press fitted insert bit
- For manual operation
- Matt finish
- Chrome vanadium
- Includes storage rail

1/2"

			kg
911.1335	9 pcs	M5 - M6 - M7 - M8 - M9 - M10 - M12 - M13 - M14	1,20

CHROME*plus*® RIBE® Bit socket

- RIBE®
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Long execution
- with press-fitted nickel-plated bit
- For manual operation
- Mirror polished
- Chrome vanadium



1/2"

	D	D mm	L mm	T mm	g
918.1806	M5	22,0	110,0	10,0	103
918.1807	M6	22,0	110,0	10,0	104
918.1808	M7	22,0	110,0	10,0	105
918.1811	M7	22,0	240,0	10,0	175
918.1809	M8	22,0	110,0	10,0	106
918.1812	M8	22,0	240,0	10,0	175
918.1810	M9	22,0	110,0	10,0	108
918.1818	M10	22,0	110,0	10,0	109
918.5309	M10	22,0	240,0	10,0	194
918.1813	M12	24,0	110,0	14,0	175
918.1814	M13	24,0	110,0	14,0	175
918.1815	M14	24,0	110,0	14,0	175

CHROME*plus*® Bit socket set for RIBE® screws, long

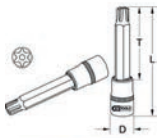
- RIBE®
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Long execution
- with press-fitted nickel-plated bit
- For manual operation
- Mirror polished
- Chrome vanadium
- Includes storage rail

1/2"

			kg
918.1340	9 pcs	M5 - M6 - M7 - M8 - M9 - M10 - M12 - M13 - M14	1,20

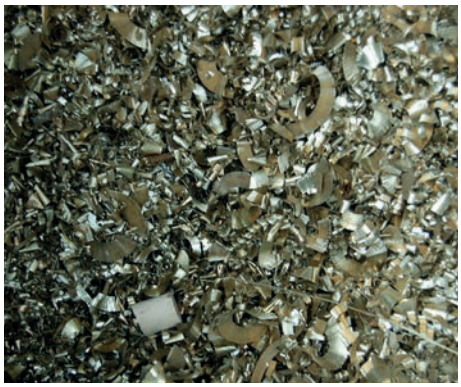
RIBE® Bit socket for tamperproof screws, long

- For tamperproof RIBE® profile
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Long execution
- with press-fitted nickel-plated bit
- For manual operation
- Matt finish
- Chrome vanadium



1/2"

		D mm	L mm	T mm	g
911.3951	M5	22,0	110,0	72,0	120
911.3952	M6	22,0	110,0	72,0	120
911.3953	M7	22,0	110,0	72,0	120
911.3954	M8	22,0	110,0	72,0	120
911.3955	M9	22,0	110,0	72,0	130
911.3956	M10	22,0	110,0	72,0	130
911.3957	M12	22,0	110,0	72,0	150
911.3958	M13	22,0	110,0	72,0	180
911.3959	M14	22,0	110,0	72,0	180



RIBE® Bit socket set for tamperproof screws, long

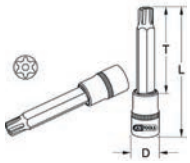
- For tamperproof RIBE® profile
- RIBE® profile for tamperproof screws
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Long execution
- With press fitted insert bit
- For manual operation
- Matt finish
- Chrome vanadium
- Includes storage rail

1/2"

			kg
911.1630	9 pcs	M5 - M6 - M7 - M8 - M9 - M10 - M12 - M13 - M14	1,24

CHROME*plus*® RIBE® Bit socket for tamperproof screws, long

- For tamperproof RIBE® profile
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Long execution
- with press-fitted nickel-plated bit
- For manual operation
- Mirror polished
- Chrome vanadium



1/2"

	D	D mm	L mm	T mm	g
918.1780	M5	22,0	110,0	72,0	120
918.1781	M6	22,0	110,0	72,0	120
918.1782	M7	22,0	110,0	72,0	120
918.1783	M8	22,0	110,0	72,0	120
918.1784	M9	22,0	110,0	72,0	130
918.1785	M10	22,0	110,0	72,0	130
918.1786	M12	22,0	110,0	72,0	150
918.1787	M13	22,0	110,0	72,0	180
918.1788	M14	22,0	110,0	72,0	180

CHROME*plus*® RIBE® bit socket set for tamperproof screws, long

- For tamperproof RIBE® profile
- RIBE® profile for tamperproof screws
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Long execution
- with press-fitted nickel-plated bit
- For manual operation
- Mirror polished
- Chrome vanadium
- Includes storage rail

1/2"

			kg
918.1895	9 pcs	M5 - M6 - M7 - M8 - M9 - M10 - M12 - M13 - M14	1,24

CHROME*plus*® Bit socket set

- Mirror polished
- Chrome vanadium
- In durable plastic storage case

1/2"

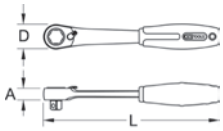
			kg
918.1752	32 pcs	CHROME*plus*® Bit socket set	6,30

8 x		5 - 6 - 7 - 8 - 10 - 12 - 14 - 17 mm
4 x		6 - 8 - 10 - 12 mm
8 x		T25 - T27 - T30 - T40 - T45 - T50 - T55 - T60
4 x		T30 - T40 - T50 - T60
4 x		M5 - M6 - M8 - M10
4 x		M6 - M8 - M10 - M12

GO THROUGH SOCKETS

19 mm TRIPLE*plus*® Go through reversing ratchet

- 19 mm Hexagon drive
- Reversible
- Exact gearing 72 teeth ratchet mechanism
- Extremely slim head
- Two component handle with soft zone
- Matt finish
- Chrome vanadium



	A mm	D mm	L mm	g
918.4051	12,0	34,0	205,0	190

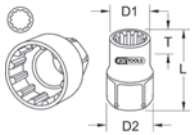
19 mm TRIPLE*plus*® Go through extension

- For manual operation TRIPLEplus® go through reversing ratchet 918.4051
- Matt finish
- Chrome vanadium

	mm	L mm	g
918.4052	19,0	75,0	110

19 mm TRIPLE*plus*® Go through socket

- TRIPLEplus® Profile
- For manual operation TRIPLEplus® go through reversing ratchet 918.4051
- Matt finish
- Chrome vanadium



	mm	L mm	D1 mm	D2 mm	T mm	g
916.4060	10,0	32,0	16,0	16,0	12,0	40
916.4061	11,0	32,0	17,0	17,0	12,0	40
916.4062	12,0	32,0	18,0	18,0	12,0	40
916.4063	13,0	32,0	19,0	19,0	12,0	40
916.4064	14,0	32,0	21,0	21,0	12,0	40
916.4065	15,0	32,0	22,0	22,0	12,0	40
916.4066	16,0	32,0	24,0	24,0	12,0	40
916.4067	17,0	32,0	25,0	25,0	12,0	40
916.4068	18,0	32,0	26,0	26,0	12,0	40
916.4069	19,0	32,0	27,0	27,0	12,0	40
916.4071	21,0	32,0	29,0	29,0	12,0	40
916.4072	22,0	32,0	31,0	31,0	12,0	50
916.4074	24,0	32,0	33,0	33,0	12,0	50

19 mm TRIPLE*plus*® Go through socket adaptor

- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- For manual operation TRIPLEplus® go through reversing ratchet 918.4051
- With a push button quick release function
- Matt finish
- Chrome vanadium

3/8" 1/2"

	□	L mm	g
918.4053	3/8"	28,0	40
918.4054	1/2"	35,0	50

TRIPLE*plus*® Go through socket set

- Matt finish
- Chrome vanadium
- In durable plastic storage case

3/8" 1/2"

			kg
916.4050	17 pcs	TRIPLE*plus*® Go through socket set	1,46
13 x		10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 21 - 22 - 24 mm	
1 x		75 mm	
1 x		19 mm x 3/8“	
1 x		19 mm x 1/2“	
1 x		19 mm	

1/2” ADAPTERS

Bit adaptor socket

- Internal square to DIN 3120 / ISO 1174 with ball reception
- For 5/16” bits with external hexagon drive to DIN 3126 / ISO 1173
- For manual operation
- Matt finish
- Chrome vanadium

1/2"

	■	○	L mm	D1 mm	D2 mm	T mm	g
911.1253	1/2"	5/16"	40,0	16,0	22,0	14,0	50

CHROME*plus*® Bit adaptor socket

- Internal square to DIN 3120 / ISO 1174 with ball reception
- For 5/16” Bits with external hexagon drive to DIN 3126 / ISO 1173
- For manual operation
- Mirror polished
- Chrome vanadium

1/2"

	□	○	L mm	D1 mm	D2 mm	T mm	g
918.1266	1/2"	5/16"	38,0	17,0	22,0	15,0	50

Bit adaptor socket with clamping ring

- Clamping ring
- Internal square to DIN 3120 / ISO 1174 with ball reception
- For 10 mm Bits with external hexagon drive to DIN 3126 / ISO 1173
- For manual operation
- Matt finish
- Chrome vanadium

1/2"

	■	○	L mm	D1 mm	D2 mm	T mm	g
911.4312	1/2"	10mm	40,0	17,0	22,0	15,0	50
911.4351	1/2"	5/16"	38,0	17,0	22,0	20,0	25

CHROME*plus*® Bit adaptor socket with clamping ring

- Clamping ring
- Internal square to DIN 3120 / ISO 1174 with ball reception
- For 10 mm Bits with external hexagon drive to DIN 3126 / ISO 1173
- For manual operation
- Mirror polished
- Chrome vanadium

1/2"

	□	○	L mm	D1 mm	D2 mm	T mm	g
918.1271	1/2"	10mm	35,0	17,0	22,0	15,0	40
918.4351	1/2"	5/16"	38,0	17,0	22,0	14,0	59

Adaptor and reducing adaptor

- DIN 3123 / ISO 3316
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Internal square to DIN 3120 / ISO 1174 with ball reception
- For manual operation
- Matt finish
- Chrome vanadium

1/2"

	□	■	L mm	g
911.1233	1/2"	3/8"	46,0	50
911.1234	1/2"	3/4"	46,0	140

Adaptor and reducing adaptor set

- DIN 3123 / ISO 3316
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Internal square to DIN 3120 / ISO 1174 with ball reception
- For manual operation
- Matt finish
- Chrome vanadium
- In durable plastic storage case

1/4" 3/8" 1/2"

			kg
911.0106	6 pcs	1/4" x 3/8" - 3/8" x 1/4" - 3/8" x 1/2" - 1/2" x 3/8" - 1/2" x 3/4" - 3/4" x 1/2"	0,66

CHROME*plus*® Adaptor and reducing adaptor

- DIN 3123 / ISO 3316
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Internal square to DIN 3120 / ISO 1174 with ball reception
- For manual operation
- Mirror polished
- Chrome vanadium

1/2"

	□	■	L mm	g
918.1753	1/2"	3/8"	46,0	50
918.1754	1/2"	3/4"	46,0	140

CHROME*plus*® adaptor and reducing adaptor set

- DIN 3123 / ISO 3316
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Internal square to DIN 3120 / ISO 1174 with ball reception
- For manual operation
- Mirror polished
- Chrome vanadium
- In durable plastic storage case

1/4" 3/8" 1/2"

			kg
918.0106	6 pcs	1/4" x 3/8" - 3/8" x 1/4" - 3/8" x 1/2" - 1/2" x 3/8" - 1/2" x 3/4" - 3/4" x 1/2"	0,66

Sliding adaptor and reducing adaptor

- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Internal square to DIN 3120 / ISO 1174 with ball reception
- To the use with extensions
- Also usably as adaptors and/or reducing adaptors Reducing adaptor
- For manual operation
- Matt finish
- Chrome vanadium

1/2"

	□	■	L mm	g
911.1207	3/8"	1/2"	40,0	60

CHROME*plus*® Sliding adaptor and reducing adaptor

- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Internal square to DIN 3120 / ISO 1174 with ball reception
- To the use with extensions
- For manual operation
- Mirror polished
- Chrome vanadium

1/2"

	□	■	L mm	g
918.1261	3/8"	1/2"	40,0	70

Adaptor and reducing adaptor set

- DIN 3123 / ISO 3316
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Internal square to DIN 3120 / ISO 1174 with ball reception
- For manual operation
- Matt finish
- Chrome vanadium
- In durable plastic storage case

1/4" 3/8" 1/2" 3/4"

			g
917.0707	7 pcs	Adaptor and reducing adaptor set	660

consists of:

		g
514.1113	1/4" Auto slimlock magnetic quick release bit holder, 65mm	30
911.1494	Adaptor, 1/4"Mx3/8"F	30
911.3892	Adaptor,3/8" Fx1/2" M	60
911.1234	Adaptor, 1/2"F x 3/4"M	140
911.3897	Reducing adaptor, 3/8"Fx1/4"M	60
911.1233	Reducing adaptor, 1/2"F x 3/8"M	50
911.3412	Reducing adaptor 3/4"F x 1/2"M	195

CHROME*plus*® adaptor and reducing adaptor set

- DIN 3123 / ISO 3316
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Internal square to DIN 3120 / ISO 1174 with ball reception
- For manual operation
- Mirror polished
- Chrome vanadium
- In durable plastic storage case

1/4" 3/8" 1/2" 3/4"

			g
918.0707	7 pcs	CHROME*plus*® adaptor and reducing adaptor set	660

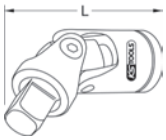
consists of:

514.1113	1/4" Auto slimlock magnetic quick release bit holder, 65mm	30
918.1753	1/2" CHROMEplus Reducing adaptor, 1/2"F x 3/8"M	50
918.1501	1/4" CHROMEplus Adaptor, 1/4"Fx3/8"M	30
918.1754	1/2" CHROMEplus Adaptor, 1/2"Fx3/4"M	140
918.3930	3/8" CHROMEplus Reducing adaptor, 3/8"F x 1/4"M	60
918.3931	3/8" CHROMEplus Adaptor, 3/8"Fx1/2"M	60
918.3412	CHROMEplus Reducing adaptor 3/4"F x 1/2"M	195

1/2" UNIVERSAL JOINTS

Universal joint

- DIN 3123 / ISO 3316
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Flexible joint
- Matt finish
- Chrome vanadium

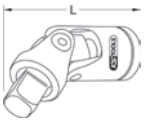


1/2"

	□	■	L mm	
911.1250	1/2"	1/2"	73,0	160

CHROME*plus*® Universal joint

- DIN 3123 / ISO 3316
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Flexible joint
- For manual operation
- Mirror polished
- Chrome vanadium

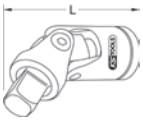


1/2"

	□	■	L mm	
918.1250	1/2"	1/2"	73,0	170

Power universal ball joint

- Ideal for use with electric screwdriver
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Very low running rotation
- New joint construction
- Outstanding use of angles up to 45°
- Very breakage resistant
- Can be used by hand or with an electric screwdriver
- Matt finish
- Chrome vanadium

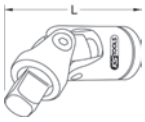


1/2"

	□	■	L mm	
917.1250	1/2"	1/2"	70,0	160

CHROME*plus*® Power universal ball joint

- Ideal for use with electric screwdriver
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Very low running rotation
- New joint construction
- Outstanding use of angles up to 45°
- Very breakage resistant
- Can be used by hand or with an electric screwdriver
- Mirror polished
- Chrome vanadium



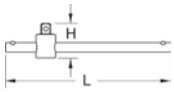
1/2"

	□	■	L mm	
919.1250	1/2"	1/2"	70,0	160

1/2" T-HANDLES

Sliding T-handle

- DIN 3122 / ISO 3315
- Square drive to DIN 3120 / ISO 1174 with ball lock
- For manual operation
- Matt finish
- Chrome vanadium

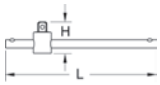


1/2"

	H mm	L mm	
911.1204	42,0	250,0	440

CHROME*plus*® Sliding T-handle

- DIN 3122 / ISO 3315
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- For manual operation
- Mirror polished
- Chrome vanadium



1/2"

	H mm	L mm	
918.1263	42,0	250,0	360

1/2" EXTENSIONS

Extension

- DIN 3123 / ISO 3316
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Internal square to DIN 3120 / ISO 1174 with ball reception
- For manual operation
- Matt finish
- Chrome vanadium

1/2"

	L mm	kg
911.1235	50,0	0,10
911.1201	75,0	0,12
911.1202	125,0	0,18
911.1315	180,0	0,26
911.1203	250,0	0,38
911.1316	305,0	0,41
911.1835	375,0	0,57
911.1833	500,0	0,75
911.1834	700,0	1,10

Extension set

- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Hexagon drive
- For manual operation
- Matt finish
- Chrome vanadium

1/4" 3/8" 1/2"

911.0007	9 pcs	Extension set	1,22
3 x		1/4" : 50 - 100 - 250 mm	
4 x		3/8" : 45 - 75 - 150 - 200 mm	
2 x		1/2" : 125 - 250 mm	

CHROME*plus*® Extension

- DIN 3123 / ISO 3316
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Internal square to DIN 3120 / ISO 1174 with ball reception
- For manual operation
- Mirror polished
- Chrome vanadium

1/2"

	L mm	g	
918.1274	50,0	90	
918.1279	75,0	120	
918.1202	125,0	180	
918.1816	180,0	260	
918.1203	250,0	420	
918.1817	305,0	410	

CHROME*plus*® Extension set

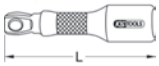
- DIN 3123 / ISO 3316
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Internal square to DIN 3120 / ISO 1174 with ball reception
- For manual operation
- Mirror polished
- Chrome vanadium

1/4" 3/8" 1/2"

			kg	
918.0007	9 pcs	CHROME*plus*® Extension set	1,22	
3 x		1/4" : 50 - 100 - 250 mm		
4 x		3/8" : 45 - 75 - 150 - 200 mm		
2 x		1/2" : 125 - 250 mm		

Wobble extension

- Internal square to DIN 3120 / ISO 1174 with ball reception
- Wobble extension with ball lock
- 8° tilt angle to each side
- For manual operation
- Matt finish
- Chrome vanadium



1/2"

	L mm	g	
911.1381	50,0	90	
911.1382	75,0	120	
911.1383	125,0	180	
911.1318	180,0	260	
911.1384	250,0	340	
911.1323	305,0	410	
911.1838	375,0	580	
911.1836	500,0	770	
911.1837	700,0	1200	

Wobble extension set

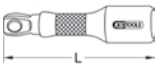
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Wobble extension with ball lock
- 8° tilt angle to each side
- For manual operation
- Matt finish
- Chrome vanadium

1/4" 3/8" 1/2"

			kg	
911.0009	9 pcs	Wobble extension set	1,22	
3 x		1/4" : 50 - 100 - 250 mm		
4 x		3/8" : 45 - 75 - 150 - 200 mm		
2 x		1/2" : 125 - 250 mm		

CHROME*plus*® Wobble extension

- Internal square to DIN 3120 / ISO 1174 with ball reception
- Wobble extension with ball lock
- 8° tilt angle to each side
- For manual operation
- Mirror polished
- Chrome vanadium



1/2"

	L mm	g	
918.1264	50,0	90	
918.1267	75,0	120	
918.1201	125,0	180	
918.1661	180,0	260	
918.1204	250,0	420	
918.1663	305,0	410	

CHROME*plus*® Wobble extension set

- Internal square to DIN 3120 / ISO 1174 with ball reception
- Wobble extension with ball lock
- 8° tilt angle to each side
- For manual operation
- Mirror polished
- Chrome vanadium

1/4" 3/8" 1/2"

			kg	
918.0009	9 pcs	CHROME*plus*® Wobble extension set	1,22	
3 x		1/4" : 50 - 100 - 250 mm		
4 x		3/8" : 45 - 75 - 150 - 225 mm		
2 x		1/2" : 125 - 250 mm		

CHROME*plus*® Extension with interlock

- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Interlocking mechanism against accidental loosening
- For manual operation
- Mirror polished
- Chrome vanadium

1/2"

	L mm	g	
919.1201	75,0	130	
919.1203	125,0	220	
919.1206	250,0	450	

CHROME*plus*® Extension set with interlock

- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Interlocking mechanism against accidental loosening
- For manual operation
- Mirror polished
- Chrome vanadium

1/2"

			kg	
919.0123	3 pcs	75 - 125 - 250 mm	0,80	

CHROME*plus*® Extension set with interlock

- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Interlocking mechanism against accidental loosening
- For manual operation
- Mirror polished
- Chrome vanadium

1/4" 3/8" 1/2"

			kg	
919.0007	7 pcs	CHROME*plus*® Extension set with interlock	1,24	
2 x		1/4" : 100 - 150 mm		
3 x		3/8" : 75 - 150 - 250 mm		
2 x		1/2" : 125 - 250 mm		

1/2” MANUAL DRIVE TOOLS

L-Handle

- DIN 3122 / ISO 3315
- Square drive to DIN 3120 / ISO 1174 with ball lock
- For manual operation
- Matt finish
- Chrome vanadium

1/2”

	L mm	
911.1331	220,0	415

Speed brace

- DIN 3122 / ISO 3315
- Square drive to DIN 3120 / ISO 1174 with ball lock
- For manual operation
- Matt finish
- Chrome vanadium

1/2”

	L mm	
911.1338	400,0	500

Flexi head drive handle

- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Ideal for difficult to access areas
- Protects ratchet and torque wrenches from overloading
- Burnished head
- Matt finish
- Chrome vanadium

1/2”

	L mm	
917.1425	370,0	550

CHROME*plus*® Flexible head drive handle

- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Ideal for difficult to access areas
- Protects ratchet and torque wrenches from overloading
- Burnished head
- Mirror polished
- Chrome vanadium

1/2”

			L mm	head,spare	
918.1291	A	1/2”	360,0	918.1292-1	660
918.1297	B	1/2”	460,0	918.1292-1	1115
918.1292	B	1/2”	600,0	918.1292-1	1420
918.1293	B	1/2”	760,0	918.1292-1	1630

1/2” RATCHETS

Hand reversible ratchet

- According to DIN 3122 / ISO 3315
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Reversible
- Easy and handy to use
- Extremely slim head
- Fine gearing 72 teeth ratchet mechanism
- Ergonomic 2 component handle
- Chrome vanadium

1/2”

		Tooth	
914.1210	1/2”	72	60

Mini hand reversible ratchet set

- According to DIN 3122 / ISO 3315
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Reversible
- Easy and handy to use
- Extremely slim head
- Fine gearing 72 teeth ratchet mechanism
- Ergonomic 2 component handle
- Chrome vanadium

1/4” 3/8” 1/2”

914.1215	3 pcs	Mini hand reversible ratchet set	165

consists of:

914.1410	Hand reversible ratchet, 1/4”, 72 teeth	50
914.3810	Hand reversible ratchet, 3/8”, 72 teeth	55
914.1210	Hand reversible ratchet, 1/2”, 72 teeth	60

Reversible ratchet

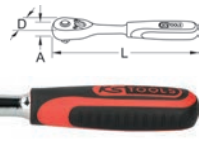
- DIN 3122 / ISO 3315
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Reversible
- Exact gearing 45 teeth ratchet mechanism
- With ejection mechanism on the ratchet head
- Ergonomic 2 component handle
- Matt finish
- Chrome vanadium

1/2”

	A mm	D mm	L mm	Repair set	
911.1200	18,0	42,0	250,0	911.1299	580

CHROME*plus*® Reversible ratchet

- DIN 3122 / ISO 3315
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Reversible
- Exact gearing 45 teeth ratchet mechanism
- With ejection mechanism on the ratchet head
- Ergonomic 2 component handle
- Mirror polished
- Chrome vanadium



1/2”

	A mm	D mm	L mm	Repair set	
918.1200	18,0	42,0	250,0	911.1299	580

Reversible ratchet

- According to DIN 3122 / ISO 3315
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Reversible
- Fine gearing 72 teeth ratchet mechanism
- With ejection mechanism on the ratchet head
- Ergonomic 2 component handle
- Recessed reverse lever
- Matt finish
- Chrome vanadium

1/2”

	A mm	D mm	L mm	Repair set	
914.1290	20,5	40,0	250,0	914.1297	700

CHROME*plus*® Reversible ratchet

- According to DIN 3122 / ISO 3315
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Reversible
- Fine gearing 72 teeth ratchet mechanism
- With ejection mechanism on the ratchet head
- Ergonomic 2 component handle
- Recessed reverse lever
- Mirror polished
- Chrome vanadium

1/2”

	A mm	D mm	L mm	Repair set	
918.1290	21,0	40,0	250,0	914.1297	600

CHROME*plus*® Reversible ratchet

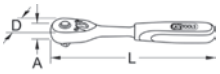
- According to DIN 3122 / ISO 3315
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Reversible
- Fine gearing 72 teeth ratchet mechanism
- With ejection mechanism on the ratchet head
- Recessed reverse lever
- Mirror polished
- Chrome vanadium

1/2"

	A mm	D mm	L mm	Repair set	g
918.1393	21,0	40,0	250,0	914.1297	630

SlimPOWER reversible ratchet

- According to DIN 3122 / ISO 3315
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Reversible
- Very robust as a result of double pin technology
- Extremely slim head
- Fine gearing 72 teeth ratchet mechanism
- With ejection mechanism on the ratchet head
- Ergonomic 2-component handle with a soft zone
- Mirror polished
- Chrome vanadium



1/2"

	A mm	D mm	L mm	Repair set	g
920.1290	34,0	32,0	245,0	920.1290-1	356

SlimPOWER reversible ratchet set

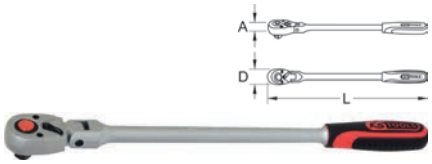
- According to DIN 3122 / ISO 3315
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Reversible
- Extremely slim head
- Fine gearing 72 teeth ratchet mechanism
- With ejection mechanism on the ratchet head
- Ergonomic 2-component handle with a soft zone
- Mirror polished
- Chrome vanadium

1/4" 1/2"

			g
920.0002	2 pcs	1/4" + 1/2"	430

Flexibel head reversible ratchet

- DIN 3122 / ISO 3315
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Extra long
- 180° revolving head
- Reversible
- Exact gearing 72 teeth ratchet mechanism
- With ejection mechanism on the ratchet head
- Ergonomic 2 component handle
- Recessed reverse lever
- Matt finish
- Chrome vanadium



1/2"

	A mm	D mm	L mm	Repair set	g
914.1296	20,0	40,0	440,0	914.1297	800

CHROME*plus*® Telescopic reversible ratchet

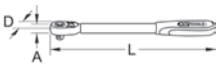
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Reversible
- With exact gearing 36 teeth ratchet mechanism
- Infinitely variable
- With ejection mechanism on the ratchet head
- Ergonomic 2 component handle
- Mirror polished
- Chrome vanadium

1/2"

	A mm	D mm	L mm	Repair set	g
918.1270	19,0	43,0	380,0-500,0	918.1275	1200

SlimPOWER telescopic-joint changeover ratchet

- According to DIN 3122 / ISO 3315
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Reversible
- Very robust as a result of double pin technology
- 180° revolving head
- Fine gearing 72 teeth ratchet mechanism
- Adjustable in 7 steps
- With ejection mechanism on the ratchet head
- Ergonomic 2-component handle with a soft zone
- Matt finish
- Chrome vanadium



1/2"

	A mm	D mm	L mm	Repair set	g
914.1220	16,0	33,0	294,0-432,0	914.1220-1	620,0

1/2" SET ASSORTMENTS

Socket set

- 6 point
- FlankTraction profile
- Matt finish
- Chrome vanadium
- In durable plastic storage case

1/2"

			kg
911.0620	20 pcs	Socket set	3,30

15 x		10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 18 - 19 - 22 - 24 - 27 - 30 - 32 mm
2 x		125 - 250 mm
1 x		1/2"
1 x		1/2"
1 x		250 mm

CHROME*plus*® Socket set

- 6 point
- FlankTraction profile
- Mirror polished
- Chrome vanadium
- In durable plastic storage case

1/2"

			kg
918.0625	22 pcs	CHROME*plus*® Socket set	4,75

17 x		10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 19 - 21 - 22 - 24 - 27 - 30 - 32 - 34 mm
2 x		125 - 250 mm
1 x		1/2"
1 x		3/8" x M1/2"
1 x		380 - 500 mm

CHROME*plus*® Socket set

- 6 point
- FlankTraction profile
- Mirror polished
- Chrome vanadium
- In durable plastic storage case

1/2"

			kg
918.0623	23 pcs	CHROME*plus*® Socket set	2,40
18 x		10-11-12-13-14-15-16-17-18-19-20 21-22-24-27-30-32-34 mm	
2 x		125 - 250 mm	
1 x		1/2“	
1 x		3/8“ x M1/2“	
1 x		250 mm	

Socket set

- 6 point
- FlankTraction profile
- Matt finish
- Chrome vanadium
- In durable plastic storage case

1/2"

			kg
951.0624	24 pcs	Socket set	4,30
20 x		8 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 23 - 24 - 27 - 30 - 32 - 34 mm	
2 x		125 - 250 mm	
1 x		1/2“	
1 x		245 mm	

CHROME*plus*® Socket set

- 6 point
- FlankTraction profile
- Mirror polished
- Chrome vanadium
- In durable plastic storage case

1/2"

			kg
958.0624	24 pcs	CHROME*plus*® Socket set	4,30
20 x		8 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 23 - 24 - 27 - 30 - 32 - 34 mm	
2 x		125 - 250 mm	
1 x		1/2“	
1 x		245 mm	

Socket set

- 6 point
- FlankTraction profile
- Matt finish
- Chrome vanadium
- In durable steel storage case

1/2"

			kg
917.4024	24 pcs	Socket set	5,00
17 x		10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 19 - 20 - 21 - 22 - 24 - 27 - 30 32 mm	
2 x		16 - 21 mm	
2 x		125 - 250 mm	
1 x		1/2“	
1 x		1/2“	
1 x		250 mm	

Socket set

- 12 point
- FlankTraction profile
- Matt finish
- Chrome vanadium
- In durable plastic storage case

1/2"

			kg
911.1595	24 pcs	Socket set	3,00
17 x		10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 19 - 20 - 21 - 22 - 24 - 27 - 30 - 32 mm	
1 x		250 mm	
2 x		125 - 250 mm	
1 x		1/2“	
2 x		16 - 21 mm	
1 x		3/8“F x 1/2“M	

Socket set

- 6 point
- FlankTraction profile
- Matt finish
- Chrome vanadium
- In durable plastic storage case

1/2"

			kg
917.0728	28 pcs	Socket set	4,20
18 x		10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 23 - 24 - 27 - 30 - 32 mm	
2 x		16 - 21 mm	
1 x		1/2“	
2 x		125 - 250 mm	
1 x		1/2“	
1 x		250 mm	
3 x		1,5 - 2 - 2,5 mm	

CHROME*plus*® Socket set

- 6 point
- FlankTraction profile
- Mirror polished
- Chrome vanadium
- In durable plastic storage case

1/2"

			kg
918.0728	28 pcs	CHROME*plus*® Socket set	4,28
18 x		10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 23 - 24 - 27 - 30 - 32 mm	
2 x		16 - 21 mm	
1 x		1/2“	
2 x		125 - 250 mm	
1 x		1/2“	
1 x		250 mm	
3 x		1,5 - 2 - 2,5 mm	

Socket set

- 6 point
- FlankTraction profile
- Matt finish
- Chrome vanadium
- In durable plastic storage case

1/2"

			kg
951.0630	30 pcs	Socket set	5,87
15 x		3/8“ - 7/16“ - 1/2“ - 9/16“ - 19/32“ - 5/8“ - 11/16“ - 3/4“ - 13/16“ - 7/8“ - 15/16“ - 1“ - 1.1/16“ - 1.1/8“ - 1.1/4“	
7 x		1/2“ - 9/16“ - 11/16“ - 3/4“ - 7/8“ - 15/16“ - 1“	
2 x		5/8“ - 13/16“	
2 x		125 - 250 mm	
1 x		1/2“	
1 x		1/2“F x 3/8“M	
1 x		370 mm	
1 x		245 mm	

CHROME*plus*® Socket set

- 6 point
- FlankTraction profile
- Mirror polished
- Chrome vanadium
- In durable plastic storage case

1/2"

			kg
918.0635	35 pcs	CHROME*plus*® Socket set	5,75
18 x		10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 19 - 20 - 21 - 22 - 24 - 27 - 30 - 32 - 34 mm	
10 x		10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 18 - 19 mm	
2 x		16 - 21 mm	
2 x		125 - 250 mm	
1 x		1/2“	
1 x		F3/8“ x M1/2“	
1 x		250 mm	

CHROME*plus*® Socket set

- Imperial sizes
- 6 point
- FlankTraction profile
- Mirror polished
- Chrome vanadium
- In durable plastic storage case

1/2"

			kg
918.0830	30 pcs	CHROME*plus*® Socket set	3,40
15 x		3/8“-7/16“-1/2“-9/16“-19/32“-5/8“-11/16“-3/4“ 13/16“-7/8“-15/16“-1“-1.1“/16“-1.1“/8“-1.1“/4“	
7 x		1/2“ - 9/16“ - 11/16“ - 3/4“ - 7/8“ 15/16“ - 1“	
2 x		5/8“ - 13/16“	
2 x		125 - 250 mm	
1 x		1/2“	
1 x		F1/2“ x M3/8“	
1 x		380 mm	
1 x		250 mm	

CHROME*plus*® Socket set

- 6 point
- FlankTraction profile
- Mirror polished
- Chrome vanadium
- In durable plastic storage case

1/2"

			kg
958.0630	30 pcs	CHROME*plus*® Socket set	5,87
15 x		3/8“ - 7/16“ - 1/2“ - 9/16“ - 19/32“ - 5/8“ - 11/16“ - 3/4“ - 13/16“ - 7/8“ - 15/16“ - 1“ - 1.1/16“ - 1.1/8“ - 1.1/4“	
7 x		1/2“ - 9/16“ - 11/16“ - 3/4“ - 7/8“ - 15/16“ - 1“	
2 x		5/8“ - 13/16“	
2 x		125 - 250 mm	
1 x		1/2“	
1 x		1/2“F x 3/8“M	
1 x		370 mm	
1 x		245 mm	

Socket set

- 6 point
- FlankTraction profile
- Matt finish
- Chrome vanadium
- In durable plastic storage case

1/2"

			kg
951.0639	39 pcs	Socket set	5,90
20 x		8-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-27-30-32-34 mm	
10 x		10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm	
4 x		14 - 16 - 18 - 21 mm	
2 x		125 - 250 mm	
1 x		3/8“ x 1/2“	
1 x		1/2“	
1 x		245 mm	

CHROME*plus*® Socket set

- 6 point
- FlankTraction profile
- Mirror polished
- Chrome vanadium
- In durable plastic storage case

1/2"

			kg
958.0639	39 pcs	CHROME*plus*® Socket set	5,90
20 x		8 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 23 - 24 - 27 - 30 - 32 - 34 mm	
2 x		125 - 250 mm	
1 x		1/2"	
1 x		245 mm	

1/2" SET ASSORTMENTS

Torx Socket and bit set

- Matt finish
- Chrome vanadium
- In durable plastic storage case

1/4" 3/8" 1/2"

			kg
911.4301-1	30 pcs	Torx Socket and bit set	1,45
5 x		1/4": E4 - E5 - E6 - E7 - E8	
4 x		3/8": E10 - E11 - E12 - E14	
5 x		1/2": E16 - E18 - E20 - E22 - E24	
2 x		3/8" x 10 mm - 1/2" x 10mm	
7 x		30 mm (T20 - T25 - T30 - T40 - T45 T50 - T55)	
7 x		75 mm (T20 - T25 - T30 - T40 - T45 T50 - T55)	

Torx Bit socket set for Torx tamperproof screws

- Matt finish
- Chrome vanadium
- In durable plastic storage case

1/4" 3/8" 1/2"

			kg
911.4301-2	30 pcs	Torx Bit socket set for Torx tamper-proof screws	1,45
5 x		1/4": E4 - E5 - E6 - E7 - E8	
4 x		3/8": E10 - E11 - E12 - E14	
5 x		1/2": E16 - E18 - E20 - E22 - E24	
2 x		3/8" x 10 mm - 1/2" x 10mm	
7 x		30 mm (TB20 - TB25 - TB30 - TB40 TB45 - TB50 - TB55)	
7 x		75 mm (TB20 - TB25 - TB30 - TB40 TB45 - TB50 - TB55)	

Torx Socket set

- Matt finish
- Chrome vanadium
- In durable plastic storage case

1/4" 3/8" 1/2"

			kg
911.4302	31 pcs	Torx Socket set	1,40
6 x		1/4": T10 - T15 - T20 - T25 - T27 - T30	
3 x		5/16": T40 - T45 - T50	
3 x		1/4": TB30 x 30 mm - TB25 x 75 mm - TB30 x 75 mm	
2 x		1/2": T55 - T60	
4 x		1/4": E5 - E6 - E7 - E8	
3 x		3/8": E10 - E12 - E14	
3 x		1/2": E16 - E18 - E20	
3 x		1/4" x 1/4" - 3/8" x 5/16" - 1/2" x 5/16"	
4 x		E6 x E8 - E7 x E11 - E10 x E12 E14 x E18 -	

Universal tool kit set

- 6 point
- FlankTraction profile
- Matt finish
- Chrome vanadium
- In very high-quality 2-component plastic case

1/2"

			kg
940.0047	47 pcs	Universal tool kit set	8,40
14 x		1/2": 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 24	
3 x		1/2": 16 - 18 - 21 mm	
14 x		6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 -15 - 16 - 17 - 18 - 19	
1 x		T8 - T10 - T15 - T20 - T25 - T27 - T30 - T40	
1 x		2,5 - 3 - 4 - 5 - 6 - 7 - 8 - 10 mm	
1 x		3 - 48 V	
1 x		250 mm	
3 x		3 - 5,5 - 8 mm	
2 x		PH1 - PH2	
1 x		250 mm	
2 x		125 - 250 mm	
1 x		1/2"	
1 x		240 mm	
1 x		180 mm	
1 x		300 g	

Tool kit

- 6 point
- FlankTraction profile
- Matt finish
- Chrome vanadium
- In durable plastic storage case

1/4" 1/2"

			kg
911.0650	50 pcs	Tool kit	5,20

9 x	10 - 11 - 12 - 13 - 14 - 15 - 17 - 19 22 mm
1 x	1/4“: PZ1 - PZ2 - T10 - T15 - T20 T25 - T30 - T40
1 x	21 mm
1 x	250 mm
1 x	1/2“
1 x	1/2“
1 x	1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm
1 x	250 mm
3 x	4,5 - 5,5 - 6,5 mm
2 x	PH1 - PH2
1 x	200 mm
1 x	150 - 250 V
1 x	240 mm
1 x	180 mm
1 x	300 g
8 x	8 - 10 - 11 - 12 - 13 - 14 - 17 - 19 mm

Torx Socket and bit set

- Matt finish
- Chrome vanadium
- In durable plastic storage case

1/4“ 3/8“ 1/2“

			kg
911.4305	57 pcs	Torx Socket and bit set	2,00

2 x	3/8“ x 10mm - 1/2“ x 1/4“
12 x	1/4“: E4 - E5 - E6 - E7 - E8; 3/8“: E10 - E11 - E12 - E14;1/2“: E16 - E18 - E20
7 x	4 - 5 - 6 - 7 - 8 - 10 - 12 mm
9 x	TB20 - TB25 - TB27 - TB30 - TB40 - TB45 - TB50 - TB55 - TB60
5 x	M5 - M6 - M8 - M10 - M12
2 x	8 - 10 mm
2 x	PH2 - PH3
5 x	5 - 6 - 7 - 8 - 10 mm
9 x	T20 - T25 - T27 - T30 - T40 - T45 - T50 - T55 - T60
4 x	M6 - M8 - M10 - M12

Socket set

- 6 point
- FlankTraction profile
- Matt finish
- Chrome vanadium
- In durable plastic storage case

1/4“ 1/2“

			kg
951.0668	68 pcs	Socket set	4,97

10 x	1/4“: 5,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 mm
20 x	1/2“: 8 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 23 - 24 - 27 - 30 - 32 - 34 mm
3 x	1/4“: 4,5 - 6,5 - 8 mm
3 x	1/4“: PH1 - PH2 - PH3
3 x	1/4“: PZ1 - PZ2 - PZ3
6 x	1/4“: 3 - 4 - 5 - 6 - 7 - 8 mm
7 x	1/4“: T15 - T20 - T25 - T27 - T30 - T40 - T45
5 x	1/4“: M4 - M5 - M6 - M8 - M10
1 x	1/4“
1 x	1/4“
2 x	1/4“: 50 - 100 mm
2 x	1/2“: 125 - 250 mm
2 x	1/4“ - 1/2“
1 x	1/4“: 150 mm
2 x	1/4“ - 1/2“

CHROME*plus*® socket set

- 6 point
- FlankTraction profile
- Mirror polished
- Chrome vanadium
- In durable plastic storage case

1/4“ 1/2“

			kg
958.0668	68 pcs	CHROME*plus*® socket set	4,97

10 x	1/4“: 5,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 mm
20 x	1/2“: 8 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 23 - 24 - 27 - 30 - 32 - 34 mm
3 x	1/4“: 4,5 - 6,5 - 8 mm
3 x	1/4“: PH1 - PH2 - PH3
3 x	1/4“: PZ1 - PZ2 - PZ3
6 x	1/4“: 3 - 4 - 5 - 6 - 7 - 8 mm
7 x	1/4“: T15 - T20 - T25 - T27 - T30 - T40 - T45
5 x	1/4“: M4 - M5 - M6 - M8 - M10
1 x	1/4“
1 x	1/4“
2 x	1/4“: 50 - 100 mm
2 x	1/2“: 125 - 250 mm
2 x	1/4“ - 1/2“
1 x	1/4“: 150 mm
2 x	1/4“ - 1/2“

CHROME*plus*® Socket set

- 6 point
- FlankTraction profile
- Mirror polished
- Chrome vanadium
- In durable plastic storage case

1/4“ 1/2“

			kg
918.0678	78 pcs	CHROME*plus*® Socket set	6,30

13 x	1/4“: 4-4,5-5-5,5-6-7-8-9-10-11-12 13-14 mm
8 x	1/4“: 6-7-8-9-10-11-12-13 mm
15 x	1/2“: 13-14-15-16-17-18-19-20-21-22 24-27-30-32-34 mm
5 x	1/2“: 14-15-17-19-22 mm
3 x	1/2“: 16-18-21 mm
2 x	1/4“: PH1-PH2
2 x	1/4“: PZ1-PZ2
6 x	1/4“: 3-4-5-6-7-8 mm
7 x	1/4“: T10-T15-T20-T25-T27 T30-T40
6 x	1/4“: M4-M5-M6-M7-M8-M10
1 x	1/4“
2 x	1/4“: 50-100 mm
1 x	1/4“
1 x	1/4“

1 x	1/4“: 145 mm
1 x	F3/8“ x M1/2“
2 x	1/2“: 125-250 mm
1 x	1/2“
1 x	1/2“: 250 mm

CHROME*plus*® Socket set

- 6 point
- FlankTraction profile
- Mirror polished
- Chrome vanadium
- In durable plastic storage case

1/4“ 1/2“

918.0694	94 pcs	CHROME*plus*® Socket set	6,38 kg
13 x		1/4“: 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 11 - 12 - 13 - 14 mm	
8 x		1/4“: 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm	
18 x		1/2“: 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 19 - 20 - 21 - 22 - 23 - 24 - 27 - 30 - 32 mm	
4 x		1/2“: 14 - 15 - 17 - 19 mm	
2 x		1/2“: 16 - 21 mm	
3 x		1/4“: 4 - 5,5 - 7 mm	
2 x		1/4“: PH1 - PH2	
2 x		1/4“: PZ1 - PZ2	
4 x		1/4“: 3 - 4 - 5 - 6 mm	
6 x		1/4“: TB8 - TB10 - TB15 - TB20 TB25 - TB30	
2 x		1/4“: 50 - 100 mm	
1 x		1/4“: 150 mm	
3 x		5/16“: 8 - 10 - 12 mm	
2 x		5/16“: PH3 - PH4	
2 x		5/16“: PZ3 - PZ4	
4 x		5/16“: 8 - 10 - 12 - 14 mm	
4 x		5/16“: T40 - T45 - T50 - T55	
1 x		1/4“	
1 x		1/4“	
1 x		1/4“	
1 x		1/4“: 145 mm	
4 x		1 - 1,5 - 2 - 2,5 mm	
1 x		1/4“	

1 x	F3/8“ x M1/2“
1 x	1/2“
1 x	1/2“ x 5/16“
1 x	1/2“: 250 mm
2 x	1/2“: 125 - 250 mm

Socket set

- 6 point
- FlankTraction profile
- Matt finish
- Chrome vanadium
- In durable plastic storage case

1/4“ 1/2“

917.0796	96 pcs	Socket set	6,30 kg
13 x		1/4“: 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 -14 mm	
8 x		1/4“: 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm	
18 x		1/2“: 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 23 - 24 - 27 - 30 - 32 mm	
4 x		1/2“: 14 - 15 - 17 - 19 mm	
2 x		1/2“: 16 - 21 mm	
1 x		1/4“	
1 x		1/2“	
1 x		3/8“Fx1/2“M	
1 x		1/4“	
1 x		1/2“x 5/16“	
1 x		110 mm	
2 x		1/4“: 50 - 100 mm	
2 x		1/2“: 125 - 250 mm	
1 x		1/4“: 150 mm	
1 x		1/4“	
1 x		1/4“	
1 x		1/2“	
2 x		1/4“: PH1 - PH2	
2 x		1/4“: PZ1 - PZ2	
3 x		1/4“: 4 - 5,5 - 7 mm	
4 x		1/4“: 3 - 4 - 5 - 6 mm	
6 x		1/4“: TB8 - TB10 - TB15 - TB20 - TB25 - TB30	
2 x		5/16“: PZ3 - PZ4	

2 x	5/16“: PH3 - PH4
3 x	5/16“: 8 - 10 - 12 mm
4 x	5/16“: 8 - 10 - 12 - 14 mm
4 x	5/16“: TB40 - TB45 - TB50 - TB55
5 x	0,9 - 1,27 - 1,5 - 2,0 - 2,5 mm

CHROME*plus*® Socket set

- 6 point
- FlankTraction profile
- Mirror polished
- Chrome vanadium
- In durable plastic storage case

1/4“ 1/2“

918.0796	96 pcs	CHROME*plus*® Socket set	6,20 kg
13 x		1/4“: 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 11 - 12 - 13 -14 mm	
8 x		1/4“: 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm	
18 x		1/2“: 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 19 - 20 - 21 - 22 - 23 - 24 - 27 - 30 - 32 mm	
4 x		1/2“: 14 - 15 - 17 - 19 mm	
2 x		1/2“: 16 - 21 mm	
1 x		1/4“	
1 x		1/2“	
1 x		3/8“Fx1/2“M	
1 x		1/4“	
1 x		1/2“x 5/16“	
1 x		110 mm	
2 x		1/4“: 50 - 100 mm	
2 x		1/2“: 125 - 250 mm	
1 x		1/4“: 150 mm	
1 x		1/4“	
1 x		1/4“	
1 x		1/2“	
2 x		1/4“: PH1 - PH2	
2 x		1/4“: PZ1 - PZ2	
3 x		1/4“: 4 - 5,5 - 7 mm	
4 x		1/4“: 3 - 4 - 5 - 6 mm	
6 x		1/4“: TB8 - TB10 - TB15 - TB20 TB25 - TB30	
2 x		5/16“: PZ3 - PZ4	

2 x	5/16“: PH3 - PH4
3 x	5/16“: 8 - 10 - 12 mm
4 x	5/16“: 8 - 10 - 12 - 14 mm
4 x	5/16“: TB40 - TB45 - TB50 - TB 55
5 x	0,9 - 1,27 - 1,5 - 2,0 - 2,5 mm

Universal tool kit set

- 6 point
- FlankTraction profile
- Matt finish
- Chrome vanadium
- In durable plastic storage case

1/4“ 1/2“

917.0797	97 pcs	Universal tool kit set	9,00 kg
12 x		1/4“: 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm	
16 x		1/2“: 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 19 - 20 - 21 - 22 - 24 - 27 - 30 - 32 mm	
1 x		1/4“	
1 x		1/2“	
1 x		1/2“: 125 mm	
1 x		1/4“: 100 mm	
1 x		1/4“	
1 x		1/2“	
3 x		PH0 - PH1 - PH2	
4 x		3 - 4 - 5,5 - 6,5 mm	
3 x		1/4“: PH1 - PH2 - PH3	
3 x		1/4“: PZ1 - PZ2 - PZ3	
3 x		1/4“: 4 - 5,5 - 6,5 mm	
4 x		1/4“: 3 - 4 - 5 - 6 mm	
9 x		1/4“: T8 - T9 - T10 - T15 - T20 - T25 - T27 - T30 - T40	
12 x		8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 -17 - 18 - 19 mm	
1 x			
1 x		300 g	
1 x		160 mm	
1 x		200 mm	
9 x		1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm	
9 x		T10 - T15 - T20 - T25 - T27 - T30 - T40 - T45 - T50	

CHROME*plus*® Universal tool kit set

- 6 point
- FlankTraction profile
- Mirror polished
- Chrome vanadium
- In durable plastic storage case

1/4“ 1/2“

918.0797	97 pcs	CHROME*plus*® Universal tool kit set	9,00 kg
12 x		1/4“: 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm	
16 x		1/2“: 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 19 - 20 - 21 - 22 - 24 - 27 - 30 - 32 mm	
1 x		1/4“	
1 x		1/2“	
1 x		1/2“: 125 mm	
1 x		1/4“: 100 mm	
1 x		1/4“	
1 x		1/2“	
3 x		PH0 - PH1 - PH2	
4 x		3 - 4 - 5,5 - 6,5 mm	
3 x		1/4“: PH1 - PH2 - PH3	
3 x		1/4“: PZ1 - PZ2 - PZ3	
3 x		1/4“: 4 - 5,5 - 6,5 mm	
4 x		1/4“: 3 - 4 - 5 - 6 mm	
9 x		1/4“: T8 - T9 - T10 - T15 - T20 - T25 - T27 - T30 - T40	
12 x		8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 -17 - 18 - 19 mm	
1 x			
1 x		300 g	
1 x		160 mm	
1 x		200 mm	
9 x		1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm	
9 x		T10 - T15 - T20 - T25 - T27 - T30 - T40 - T45 - T50	

Socket set

- 6 point
- FlankTraction profile
- Matt finish
- Chrome vanadium
- In durable plastic storage case

1/4“ 1/2“

951.0711	110 pcs	Socket set	7,60 kg
13 x		1/4“: 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 mm	
8 x		1/4“: 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm	
5 x		1/4“: E4 - E5 - E6 - E7 - E8	
18 x		1/2“: 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 24 - 27 - 30 - 32 - 34 mm	
5 x		1/2“: 14 - 15 - 17 - 19 - 22 mm	
8 x		1/2“: E10 - E11 - E12 - E14 - E16 - E18 - E20 - E24	
3 x		1/2“: 16 - 18 - 21 mm	
2 x		1/4“: 4 - 5,5 mm	
2 x		1/4“: PH1 - PH2	
2 x		1/4“: PZ1 - PZ2	
4 x		1/4“: 3 - 4 - 5 - 6 mm	
7 x		1/4“: T8 - T10 - T15 - T20 - T25 - T27 - T30	
4 x		1/4“: M4 - M5 - M6 - M8	
3 x		5/16“: 8 - 10 - 12 mm	
2 x		5/16“: PH3 - PH4	
2 x		5/16“: PZ3 - PZ4	
5 x		5/16“: 7 - 8 - 10 - 12 - 14 mm	
5 x		5/16“: T40 - T45 - T50 - T55 - T60	
1 x		1/4“	
1 x		1/2“ x 5/16“	
1 x		1/4“: 100 mm	
2 x		1/2“: 125 - 250 mm	
1 x		1/4“	
1 x		3/8“F x 1/2“M	
2 x		1/4“ - 1/2“	
1 x		1/4“: 150 mm	
2 x		1/4“ - 1/2“	

CHROME*plus*® socket set

- 6 point
- FlankTraction profile
- Mirror polished
- Chrome vanadium
- In durable plastic storage case

1/4" 1/2"

958.0711	110 pcs	CHROME*plus*® socket set	7,80 kg
13 x		1/4": 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 mm	
8 x		1/4": 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm	
5 x		1/4": E4 - E5 - E6 - E7 - E8	
18 x		1/2": 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 24 - 27 - 30 - 32 - 34 mm	
5 x		1/2": 14 - 15 - 17 - 19 - 22 mm	
8 x		1/2": E10 - E11 - E12 - E14 - E16 - E18 - E20 - E24	
3 x		1/2": 16 - 18 - 21 mm	
2 x		1/4": 4 - 5,5 mm	
2 x		1/4": PH1 - PH2	
2 x		1/4": PZ1 - PZ2	
4 x		1/4": 3 - 4 - 5 - 6 mm	
7 x		1/4": T8 - T10 - T15 - T20 - T25 - T27 - T30	
4 x		1/4": M4 - M5 - M6 - M8	
3 x		5/16": 8 - 10 - 12 mm	
2 x		5/16": PH3 - PH4	
2 x		5/16": PZ3 - PZ4	
5 x		5/16": 7 - 8 - 10 - 12 - 14 mm	
5 x		5/16": T40 - T45 - T50 - T55 - T60	
1 x		1/4"	
1 x		1/2" x 5/16"	
1 x		1/4": 100 mm	
2 x		1/2": 125 - 250 mm	
1 x		1/4"	
1 x		3/8"F x 1/2"M	
2 x		1/4" - 1/2"	
1 x		1/4": 150 mm	
2 x		1/4" - 1/2"	

CHROME*plus*® Socket set

- 6 point
- FlankTraction profile
- Mirror polished
- Chrome vanadium
- In durable plastic storage case

1/4" 3/8" 1/2"

918.0724	124 pcs	CHROME*plus*® Socket set	9,50 kg
10 x		1/4": 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 13 mm	
6 x		1/4": 5 - 6 - 7 - 8 - 9 - 10 mm	
11 x		3/8": 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 17 - 18 - 19 mm	
6 x		3/8": 10 - 11 - 12 - 13 - 14 - 15 mm	
8 x		3/8": E8 - E10 - E11 - E12 - E14 - E16 E18 - E20	
8 x		1/2": 20 - 21 - 22 - 24 - 27 - 30 - 32 34 mm	
6 x		1/2": 10 - 12 - 13 - 14 - 17 - 19 mm	
2 x		1/2": E22 - E24	
2 x		1/2": 16 - 21 mm	
1 x		1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm	
12 x		8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 17 - 18 - 19 mm	
2 x		3/8": 4 - 5,5 mm	
3 x		3/8": PH1 - PH2 - PH3	
3 x		3/8": PZ1 - PZ2 - PZ3	
5 x		3/8": 3 - 4 - 5 - 6 - 8 mm	
5 x		3/8": T20 - T30 - T40 - T45 - T50	
4 x		3/8": M4 - M5 - M6 - M8	
7 x		1/4": T10 - T15 - T20 - T25 - T27 T30 -T40	
1 x		1/4"	
1 x		1/4"	
1 x		1/4": 100 mm	
2 x		3/8": 75 - 150 mm	
2 x		1/2": 125 - 250 mm	
3 x		1/4" - 3/8" - 1/2"	
2 x		1/2": F1/2" x M 3/8"	
3 x		1/4" - 3/8" - 1/2"	

Socket set

- 6 point
- FlankTraction profile
- Matt finish
- Chrome vanadium
- In durable plastic storage case

1/4" 1/2"

951.0751	151 pcs	Socket set	8,50 kg
13 x		1/4": 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 11 - 12 - 13 - 14 mm	
18 x		1/2": 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 19 - 20 - 21 - 22 - 24 - 27 - 30 - 32 - 34 mm	
6 x		1/4": 8 - 9 - 10 - 12 - 13 - 14 mm	
4 x		1/2": 17 - 18 - 19 - 22 mm	
2 x		1/2": 16 - 21 mm	
5 x		1/4": E4 - E5 - E6 - E7 - E8	
8 x		1/2"": E10 - E11 - E12 - E14 - E16 - E18 - E20 - E24	
3 x		1/4"": 4 - 5,5 - 6,5 mm	
2 x		1/4": PH1 - PH2	
2 x		1/4": PZ1 - PZ2	
4 x		3/8": 3 - 4 - 5 - 6 mm	
8 x		1/4": T8 - T9 - T10 - T15 - T20 - T25 - T27 - T30	
5 x		1/4": M4 - M5 - M6 - M7 - M8	
8 x		1/4": TB7 - TB8 - TB9 - TB10 - TB15 - TB20 - TB25 - TB27	
8 x		1/4": TS10 - TS15 - TS20 - TS25 - TS27 - TS30 - TS40 - TS45	
5 x		1/4": M5 - M6 - M7 - M8 - M9	
3 x		5/16": 8 - 10 - 12 mm	
5 x		5/16": 7 - 8 - 10 - 12 - 14 mm	
2 x		5/16": PH3 - PH4	
2 x		5/16": PZ3 - PZ4	
6 x		5/16": T40 - T45 - T50 - T55 - T60 - T70	
6 x		5/16": TB40 - TB45 - TB50 - TB55 - TB60 - TB70	
2 x		5/16": M10 - M12	
2 x		5/16": M10 - M12	
1 x		1/4": 110 mm	
1 x		1/4": 150 mm	
2 x		1/4": 50 - 100 mm	
2 x		1/2": 125 - 250 mm	

1 x	3/8“ x 1/2“
2 x	1/4“ - 1/2“
2 x	1/4“ - 1/2“
2 x	1/4“ - 1/2“
9 x	8 - 9 - 10 - 11 - 12 - 13 - 14 - 17 - 19 mm

CHROME*plus*® socket set

- 6 point
- FlankTraction profile
- Mirror polished
- Chrome vanadium
- In durable plastic storage case

1/4“ 1/2“

958.0751	151 pcs	CHROME*plus*® socket set	8,50 kg

13 x	1/4“: 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 11 - 12 - 13 - 14 mm
18 x	1/2“: 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 19 - 20 - 21 - 22 - 24 - 27 - 30 - 32 - 34 mm
6 x	1/4“: 8 - 9 - 10 - 12 - 13 - 14 mm
4 x	1/2“: 17 - 18 - 19 - 22 mm
2 x	1/2“: 16 - 21 mm
5 x	1/4“: E4 - E5 - E6 - E7 - E8
8 x	1/2““: E10 - E11 - E12 - E14 - E16 - E18 - E20 - E24
3 x	1/4““: 4 - 5,5 - 6,5 mm
2 x	1/4“: PH1 - PH2
2 x	1/4“: PZ1 - PZ2
4 x	3/8“: 3 - 4 - 5 - 6 mm
8 x	1/4“: T8 - T9 - T10 - T15 - T20 - T25 - T27 - T30
5 x	1/4“: M4 - M5 - M6 - M7 - M8
8 x	1/4“: TB7 - TB8 - TB9 - TB10 - TB15 - TB20 - TB25 - TB27
8 x	1/4“: TS10 - TS15 - TS20 - TS25 - TS27 - TS30 - TS40 - TS45
5 x	1/4“: M5 - M6 - M7 - M8 - M9
3 x	5/16“: 8 - 10 - 12 mm
5 x	5/16“: 7 - 8 - 10 - 12 - 14 mm
2 x	5/16“: PH3 - PH4
2 x	5/16“: PZ3 - PZ4
6 x	5/16“: T40 - T45 - T50 - T55 - T60 - T70
6 x	5/16“: TB40 - TB45 - TB50 - TB55 - TB60 - TB70
2 x	5/16“: M10 - M12

2 x	5/16“: M10 - M12
1 x	1/4“: 110 mm
1 x	1/4“: 150 mm
2 x	1/4“: 50 - 100 mm
2 x	1/2“: 125 - 250 mm
1 x	3/8“ x 1/2“
2 x	1/4“ - 1/2“
2 x	1/4“ - 1/2“
2 x	1/4“ - 1/2“
9 x	8 - 9 - 10 - 11 - 12 - 13 - 14 - 17 - 19 mm

Socket set

- 6 point
- FlankTraction profile
- Matt finish
- Chrome vanadium
- In durable plastic storage case

1/4“ 3/8“ 1/2“

917.0779	179 pcs	Socket set	9,00 kg

13 x	1/4“: 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 11 - 12 - 13 - 14 mm
7 x	1/4“: 4 - 5 - 6 - 7 - 8 - 9 - 10 mm
10 x	3/8“: 10 - 11 - 12 - 13 - 14 - 15 - 16 17 - 18 - 19 mm
6 x	3/8“: 10 - 11 - 12 - 13 - 14 - 15 mm
17 x	1/2“: 10 - 11 - 12 - 13 - 14 - 15 - 16 17 - 18 - 19 - 20 - 21 - 22 - 24 - 27 30 - 32 mm
5 x	1/2“: 16 - 17 - 18 - 19 - 22 mm
1 x	3/8“: 18 mm
2 x	1/2“: 16 - 21 mm
4 x	1/4“: 4 - 5,5 - 6,5 - 7 mm
3 x	1/4“: PH0 - PH1 - PH2
3 x	1/4“: PZ0 - PZ1 - PZ2
4 x	1/4“: 3 - 4 - 5 - 6 mm
8 x	1/4“: T8 - T9 - T10 - T15 - T20 - T25 - T27 T30
8 x	1/4“: TB8 - TB9 - TB10 - TB15 - TB20 TB25 TB27 - TB30
5 x	1/4“: E4 - E5 - E6 - E7 - E8
6 x	3/8“: E10 - E11 - E12 - E14 - E16 - E18
2 x	1/2“: E20 - E24

11 x	1/4“: T5 - T6 - T7 - T8 - T9 - T10 - T15 T20 - T25 - T27 - T30
1 x	1/4“: TB7
3 x	1/4“: M5 - M6 - M8
5 x	1/4“: M5 - M6 - M7 - M8 - M9
8 x	1/4“: TS10 - TS15 - TS20 - TS25 TS27 - TS30 - TS40 - TS45
3 x	5/16“: 8 - 10 - 12 mm
5 x	5/16“: 7 - 8 - 10 - 12 - 14 mm
2 x	5/16“: PH3 - PH4
2 x	5/16“: PZ3 - PZ4
6 x	5/16“: T40 - T45 - T50 - T55 - T60 - T70
6 x	5/16“: TB40 - TB45 - TB50 - TB55 TB60 - TB70
7 x	1,3 - 1,5 - 2 - 2,5 - 3 - 4 - 5 mm
1 x	1/4“: 150 mm
1 x	1/4“: 110 mm
2 x	1/4“: 50 - 100 mm
1 x	3/8“: 150 mm
2 x	1/2“: 125 - 250 mm
3 x	1/4“ - 3/8“ - 1/2
1 x	1/4“ x 1/4“
1 x	3/8“ x 5/16“
1 x	1/2“ x 5/16“
1 x	3/8“Fx1/2“M
3 x	1/4“ - 3/8“ - 1/2

Socket set

- 6 point
- FlankTraction profile
- Matt finish
- Chrome vanadium
- In durable plastic storage case

1/4" 3/8" 1/2"

			kg
917.0795	195 pcs	Socket set	10,00
13 x		1/4": 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 11 - 12 - 13 -14 mm	
10 x		3/8": 10 - 11 - 12 - 13 - 14 - 15 - 16 17 - 18 - 19 mm	
17 x		1/2": 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 19 - 20 - 21 - 22 - 23 - 24 - 27 - 30 - 32 mm	
7 x		1/4": 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm	
6 x		3/8": 10 - 11 - 12 - 13 - 14 - 15 mm	
5 x		1/2": 16 - 17 - 18 - 19 - 22 mm	
5 x		1/4": E4 - E5 - E6 - E7 - E8	
6 x		3/8": E10 - E11 - E12 - E14 - E16 - E18	
2 x		1/2": E20 - E24	
1 x		3/8": 18 mm	
2 x		1/2": 16 - 21 mm	
3 x		1/4" - 3/8" - 1/2"	
1 x		1/4" x 1/4"	
2 x		3/8" x 5/16" - 1/2" x 5/16"	
1 x		3/8"F - 1/2"M	
2 x		1/4": 50 - 100 mm	
1 x		3/8": 150 mm	
2 x		1/2": 125 - 250 mm	
1 x		150 mm	
3 x		1/4" - 3/8" - 1/2"	
1 x		110 mm	
3 x		1/4": PH0 - PH1 - PH2	
3 x		1/4": PZ0 - PZ1 - PZ2	
8 x		1/4": T8 - T9 - T10 - T15 - T20 - T25 T27 - T30	
8 x		1/4": TB8 - TB9 - TB10 - TB15 - TB20 TB25 - TB27 - TB30	
4 x		1/4": 4 - 5,5 - 6,5 - 7 mm	
4 x		1/4": 3 - 4 - 5 - 6 mm	

CHROME*plus*® Socket set

- 6 point
- FlankTraction profile
- Mirror polished
- Chrome vanadium
- In durable plastic storage case

1/4" 3/8" 1/2"

			kg
918.0795	195 pcs	CHROME*plus*® Socket set	10,00
13 x		1/4": 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 11 - 12 - 13 -14 mm	
10 x		3/8": 10 - 11 - 12 - 13 - 14 - 15 - 16 17 - 18 - 19 mm	
17 x		1/2": 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 19 - 20 - 21 - 22 - 23 - 24 - 27 - 30 - 32 mm	
7 x		1/4": 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm	
6 x		3/8": 10 - 11 - 12 - 13 - 14 - 15 mm	
5 x		1/2": 16 - 17 - 18 - 19 - 22 mm	
5 x		1/4": E4 - E5 - E6 - E7 - E8	
6 x		3/8": E10 - E11 - E12 - E14 - E16 - E18	
2 x		1/2": E20 - E24	
1 x		3/8": 18 mm	
2 x		1/2": 16 - 21 mm	
3 x		1/4" - 3/8" - 1/2"	
1 x		1/4" x 1/4"	
2 x		3/8" x 5/16" - 1/2" x 5/16"	
1 x		3/8"F - 1/2"M	
2 x		1/4": 50 - 100 mm	
1 x		3/8": 150 mm	
2 x		1/2": 125 - 250 mm	
1 x		150 mm	
3 x		1/4" - 3/8" - 1/2"	
1 x		110 mm	
3 x		1/4": PH0 - PH1 - PH2	
3 x		1/4": PZ0 - PZ1 - PZ2	
8 x		1/4": T8 - T9 - T10 - T15 - T20 - T25 T27 - T30	
8 x		1/4": TB8 - TB9 - TB10 - TB15 - TB20 TB25 - TB27 - TB30	
4 x		1/4": 4 - 5,5 - 6,5 - 7 mm	
4 x		1/4": 3 - 4 - 5 - 6 mm	
7 x		1 -1,5 - 2 - 2,5 - 3 - 4 - 5 mm	

Socket set

- 6 point
- FlankTraction profile
- Matt finish
- Chrome vanadium
- In durable plastic storage case

1/4" 3/4" 1/2"

			kg
917.0216	216 pcs	Socket set	11,60
13 x		1/4": 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 11 - 12 - 13 -14 mm	
10 x		3/8": 10 - 11 - 12 - 13 - 14 - 15 - 16 17 - 18 - 19 mm	
16 x		1/2": 10 - 11 - 12 - 13 - 14 - 15 - 17 - 18 19 - 20 - 21 - 22 - 24 - 27 - 30 - 32 mm	
10 x		1/4": 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 14 - 15 mm	
6 x		3/8": 10 - 11 - 12 - 13 - 14 - 15 mm	
3 x		1/2": 17 - 19 - 22 mm	
5 x		1/4": E4 - E5 - E6 - E7 - E8	
6 x		3/8": E10 - E11 - E12 - E14 - E16 - E18	
8 x		1/2": E10 - E11 - E12 - E14 - E16 E18 - E20 - E24	
1 x		3/8": 18 mm	
2 x		1/2": 16 - 21 mm	
3 x		1/4" - 3/8" - 1/2"	
1 x		1/4" x 1/4"	
2 x		3/8" x 5/16" - 1/2" x 5/16"	
2 x		1/4": 50 - 100 mm	
1 x		3/8": 150 mm	
2 x		1/2": 125 - 250 mm	
1 x		110 mm	
3 x		1/4" - 3/8" - 1/2"	
1 x		1/4": 205 mm	
1 x		150 mm	
2 x		1/2": T55 - T60	
2 x		1/4": PH1 - PH2	
2 x		1/4": PZ1 - PZ2	
6 x		1/4": T8 - T10 - T15 - T20 - T25 - T30	
6 x		1/4": TB8 - TB10 - TB15 - TB20 TB25 - TB30	
3 x		1/4": 4 - 5,5 - 6,5 mm	
4 x		1/4": 3 - 4 - 5 - 6 mm	
1 x		5/16": TS50	

CHROME*plus*® Socket set

- 6 point
- FlankTraction profile
- Mirror polished
- Chrome vanadium
- In durable plastic storage case

1/4" 3/8" 1/2"

			kg
918.0216	216 pcs	CHROME*plus*® Socket set	11,60
13 x		1/4": 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 -14 mm	
10 x		3/8": 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm	
14 x		1/2": 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 24 - 27 - 30 - 32 mm	
7 x		1/4": 4 - 5 - 6 - 7 - 8 - 9 - 10 mm	
6 x		3/8": 10 - 11 - 12 - 13 - 14 - 15 mm	
5 x		1/2": 16 - 17 - 18 - 19 - 22 mm	
5 x		1/4": E4 - E5 - E6 - E7 - E8	
6 x		3/8": E10 - E11 - E12 - E14 - E16 - E18	
3 x		1/2": E20 - E22 - E24	
1 x		3/8": 18 mm	
2 x		1/2": 16 - 21 mm	
3 x		1/4" - 3/8" - 1/2"	
1 x		1/4" x 1/4"	
2 x		3/8" x 5/16" - 1/2" x 5/16"	
1 x		3/8"F - 1/2"M	
2 x		1/4": 50 - 100 mm	
1 x		3/8": 150 mm	
2 x		1/2": 125 - 250 mm	
1 x		110 mm	
3 x		1/4" - 3/8" - 1/2"	
1 x		1/4": 205 mm	
1 x		150 mm	
2 x		1/2": T55 - T60	
3 x		1/4": PH0 - PH1 - PH2	
3 x		1/4": PZ0 - PZ1 - PZ2	
8 x		1/4": T8 - T9 - T10 - T15 - T20 - T25 - T27 - T30	
8 x		1/4": TB8 - TB9 - TB10 - TB15 - TB20 - TB25 - TB27 - TB30	
4 x		1/4": 4 - 5,5 - 6,5 - 7 mm	
4 x		1/4": 3 - 4 - 5 - 6 mm	

1/2" TOOL CASES & TROLLEYS

Tool set for plumbing and heating mechanics

- Ideal set of compilation for plumbing, heating and air conditioning
- Can be used by hand or with an electric screwdriver
- Ideally suited for fittings in trade and industry
- 6 point
- FlankTraction profile
- Matt finish
- Chrome vanadium
- In a classy aluminium case

1/4" 1/2"

			kg
911.0695	95 pcs	Tool set for plumbing and heating mechanics	13,86
13 x		1/2": 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 21 - 22 - 24 mm	
2 x		1/4": 50 - 100 mm	
1 x		1/2": 125 mm	
1 x		1/2": 270 mm	
1 x		1/2"	
10 x		8x9 - 10x11 - 12x13 - 14x15 - 16x17 - 18x19 - 20x22 - 21x23 - 24x27 - 30x32 mm	
9 x		1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm	
1 x			
1 x		200 mm	
1 x		250 mm	
1 x		250x25 mm	
1 x		38 mm	
3 x		HB	
1 x		1/4": 911.2060	
1 x		1/4": 205 mm	
1 x		1/4": 911.2060	
1 x		1/4": 205 mm	
1 x		150 - 250 V	
4 x		3 - 4 - 5,5 - 6,5 mm	
2 x		PH1 - PH2	
1 x		17 x 19 mm	
4 x		1/2": 3/8" - 1/2" - 3/4" - 1"	
1 x		250 mm	
1 x		Ø 10 - 32 mm	
1 x		160 mm	
1 x		3 - 28 mm	
1 x		3 - 42 mm	
1 x		240 mm	
1 x		1": 45° - 320 mm	

CHROME*plus*® Socket set

- 6 point
- FlankTraction profile
- Mirror polished
- Chrome vanadium
- In a classy aluminium case

1/4" 1/2"

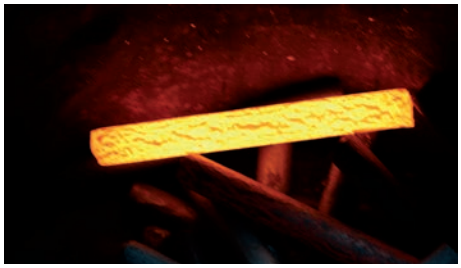
			kg
918.0702	102 pcs	CHROME*plus*® Socket set	9,70
13 x		1/4": 4 - 4,5 - 5,5 - 6 - 7 - 8 - 9 - 10 11 - 12 - 13 - 14 mm	
3 x		1/4": 8 - 10 - 13 mm	
13 x		1/2": 13 - 15 - 17 - 18 - 19 - 20 - 21 22 - 24 - 27 - 30 - 32 - 34 mm	
5 x		1/2": 14 - 15 - 17 - 19 - 22 mm	
3 x		1/4": PH1 - PH2 - PH3	
2 x		1/4": PZ1 - PZ2	
4 x		1/4": 3 - 4 - 5 - 6 mm	
7 x		1/4": T10 - T15 - T20 - T25 - T27 T30 - T40	
3 x		1/4": M4 - M5 - M6	
3 x		1/4": E6 - E7 - E8	
6 x		1/2": E10 - E12 - E14 - E16 - E18 E20	
2 x		1/2": 16 - 21 mm	
1 x		1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm	
1 x		5/16": PZ3	
2 x		5/16": 8 - 10 mm	
4 x		5/16": TB45 - TB50 - TB55 - TB60	
3 x		5/16": M8 - M10 - M12	
1 x		1/4"	
1 x		1/4"	
2 x		1/4": 50 - 100 mm	
2 x		1/2": 125 - 250 mm	
1 x		F3/8" x M1/2"	
1 x		1/2"	
1 x		1/2" x 5/16"	
2 x		1/4" - 1/2"	
7 x		7 - 8 - 10 - 12 - 13 - 17 - 19 mm	

Electrians tool set

- Ideal set for electrians
- Can be used by hand or with an electric screwdriver
- Ideally suited for fittings in trade and industry
- 6 point
- FlankTraction profile
- Matt finish
- Chrome vanadium
- In a classy aluminium case

1/4" 1/2"

			kg
911.0628	128 pcs	Electrians tool set	10,88
12 x		1/4": 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm	
12 x		1/2": 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 21 - 22 mm	
2 x		1/4": 50 - 100 mm	
1 x		1/2": 125 mm	
2 x		1/4" - 1/2"	
1 x		1/4": 110 mm	
1 x		28 mm	
1 x			
1 x			
1 x		28 mm	
1 x		145 mm	
1 x		300 g	
3 x		HB	
1 x		250 mm	
1 x		250x25 mm	
1 x		38 mm	
1 x		2 m	
1 x		300 mm	
1 x		1/4": 911.2060	
1 x		1/4": 205 mm	



Universal tool kit

- 6 point
- FlankTraction profile
- Removeable plastic storage trays
- Matt finish
- Chrome vanadium
- Telescopic carrying handle
- In a classy aluminium trolley

1/4" 1/2"

			kg
911.0735	135 pcs	Universal tool kit	17,60
9 x		1/4": 4 - 5 - 6 - 7 - 8 - 9 - 11 - 12 - 13 mm	
4 x		1/4": 8 - 9 - 10 - 13 mm	
13 x		1/2": 10 - 11 - 12 - 13 - 14 - 15 - 16 17 - 18 - 19 - 21 - 22 - 24 mm	
1 x		1/4": 911.2060	
1 x		2 - 2,5 - 3 - 4 - 5 - 6 - 8 -10 mm	
1 x		T10 - T15 - T20 - T25 - T30 - T40 - T45 - T50	
1 x		1/4": 100 mm	
1 x		1/4": 150 mm	
1 x		1/4"	
1 x		1/4"	
1 x		1/4"	
1 x		1/4": 145 mm	
1 x		1/2": 125 mm	
1 x		1/2"	
1 x		1/2": 250 mm	
1 x		1/2": 250 mm	
2 x		4 - 8 mm	
2 x		PH1 - PH2	
1 x		PH2	
2 x		PZ1 - PZ2	
1 x		PZ2	
11 x		8 - 9 - 10 - 11 - 12 - 13 - 14 - 16 - 17 18 - 19 mm	
1 x		150 - 250 V	
1 x		3,5 mm	
2 x		PH1 - PH2	
1 x		max. 2 kg	
1 x		160 mm	
1 x		160 mm	
1 x		220 mm	
1 x		240 mm	
1 x		250 mm	
1 x		10"	
1 x			
1 x		160 mm	
1 x		140 mm	
1 x		165 mm	
1 x		3 - 42 mm	
1 x		300 mm	
1 x		200 mm	
1 x		200 mm	
1 x		8 mm	
1 x		190 mm	
1 x		300 g	
1 x		5 m x 19 mm	
1 x		400 mm	

Universal tool kit set

- 6 point
- FlankTraction profile
- Matt finish
- Chrome vanadium
- In a classy aluminium case

1/4" 1/2"

			kg
911.0649	149 pcs	Universal tool kit set	12,68
12 x		1/4": 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm	
14 x		1/2": 10 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 21 - 22 - 24 - 27 - 30 - 32 mm	
2 x		1/4": 50 - 100 mm	
2 x		1/2": 125 - 250 mm	
2 x		1/4" - 1/2"	
1 x		1/4": 110 mm	
1 x		1/4" x 1/4"	
1 x		3/8"F x 1/2"M	
1 x		1/2" x 5/16"	
3 x		5/16": 10 - 12 - 14 mm	
2 x		5/16": PH3 - PH4	

1 x	0 - 150 mm
1 x	5 m
20 x	100 mm
1 x	130 - 630 mm
1 x	
10 x	8 - 10 - 11 - 12 - 13 - 14 - 15 - 17 - 19 - 22 mm
1 x	150 - 250 V
3 x	3 - 5,5 - 6,5 mm
2 x	PH1 - PH2
1 x	PZ2
1 x	160 mm
1 x	180 mm
1 x	160 mm
1 x	240 mm
1 x	250 mm
2 x	5/16“: 8 - 10 mm
4 x	5/16“: T40 - T45 - T50 - T55
1 x	
1 x	
1 x	300 g
1 x	
1 x	145 mm
1 x	200 mm
1 x	38 mm
1 x	270 mm
1 x	1/4“: 911.2060
1 x	1/4“: 205 mm
1 x	1/4“: 145 mm
1 x	1/2“: 250 mm
9 x	1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm

CHROME*plus*® Tool kit

- 6 point
- FlankTraction profile
- Removeable plastic storage trays
- Mirror polished
- Chrome vanadium
- Telescopic carrying handle
- In a classy aluminium trolley

1/4" 1/2"

			kg
918.0690	90 pcs	CHROME*plus*® Tool kit	10,50

13 x	1/4“: 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 11 - 12 - 13 - 14 mm
10 x	1/2“: 15 - 17 - 18 - 19 - 20 - 22 - 24 27 - 30 - 32 mm
2 x	1/2“: 16 - 21 mm
1 x	1/4“
2 x	1/4“: 50 - 100 mm
1 x	1/4“
1 x	1/4“ x 1/4“
1 x	1/4“: 185 mm
1 x	1/4“
1 x	1/4“: 140 mm
2 x	1/2“: 125 - 250 mm
1 x	1/2“
1 x	1/2“: F3/8“ - M1/2“
1 x	1/2“: 250 mm
6 x	1/4“: 3 - 4 - 5 - 6 - 7 - 8 mm
5 x	1/4“: PH0 - PH1 - 2 x PH2 - PH3
5 x	1/4“: PZ0 - PZ1 - 2 x PZ2 - PZ3
6 x	1/4“: 3 - 4 - 5 - 6 - 7 - 8 mm
7 x	1/4“: T10 - T15 - T20 - T25 - T27 T30 - T40
1 x	1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm
7 x	7 - 8 - 10 - 12 - 13 - 17 - 19 mm
2 x	5,5 - 6,5 mm
2 x	PH1 - PH2
1 x	240 mm
1 x	180 mm

Universal tool kit

- 6 point
- FlankTraction profile
- Matt finish
- Chrome vanadium
- In a classy aluminium case

1/4" 1/2"

			kg
911.0727	127 pcs	Universal tool kit	12,40

13 x	1/4“: 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 mm
13 x	1/2“: 10 - 13 - 14 - 16 - 17 - 18 - 19 - 20 - 22 - 24 - 27 - 30 - 32 mm
2 x	1/2“: 16 - 21 mm
1 x	1/4“: 911.2060
2 x	1/4“: 50 - 100 mm
1 x	1/4“
1 x	1/4“: 110 mm
1 x	1/4“: 145 mm
1 x	1/4“
2 x	1/2“: 125 - 250 mm
1 x	F3/8“ x M1/2“
1 x	1/2“
1 x	1/2“: 250 mm
1 x	2 - 2,5 - 3 - 4 - 5 - 6 - 8 -10 mm
1 x	T10 - T15 - T20 - T25 - T30 - T40 - T45 - T50
2 x	5,5 - 6,5 mm
2 x	PH1 - PH2
1 x	1/4“: 150 mm
8 x	8 - 9 - 10 - 11 - 13 - 14 - 17 - 19 mm
1 x	160 mm
1 x	180 mm
1 x	200 mm
1 x	240 mm
1 x	200 mm
1 x	145 mm
1 x	300 g
1 x	150 - 250 V
1 x	
1 x	250 mm

1 x		200 mm
1 x		150 mm
3 x		907.2131
1 x		
1 x		
1 x		0 - 150 mm
1 x		300 mm
1 x		5 m x 19 mm
1 x		
1 x		

Universal tool kit set

- 6 point
- FlankTraction profile
- Matt finish
- Chrome vanadium
- In a classy aluminium case

1/4" 1/2"

			kg
911.0630	130 pcs	Universal tool kit set	14,14

12 x		1/4“: 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm
16 x		1/2“: 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 21 - 22 - 24 - 27 - 30 - 32 mm
2 x		1/4“: 50 - 100 mm
2 x		1/2“: 125 - 250 mm
2 x		1/4“ - 1/2“
1 x		1/2“: 250 mm
1 x		1/4“ x 1/4“
1 x		28 mm
1 x		
1 x		
1 x		0 - 150 mm
1 x		300 g
1 x		130 - 630 mm
1 x		300 mm
1 x		1/4“: 911.2060
1 x		1/4“: 150 mm
1 x		1/4“: 205 mm
1 x		1/4“: 145 mm
1 x		1/2“: 250 mm

1 x		1/4“
9 x		1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm
9 x		TS10 - TS15 - TS20 - TS25 - TS27 - TS30 - TS40 - TS45 - TS50
1 x		
1 x		5 m
11 x		8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 17 - 19 - 22 mm
2 x		4 - 8 mm
2 x		PH1 - PH2
2 x		PZ1 - PZ2
1 x		150 - 250 V
1 x		3 mm
2 x		PH1 - PH2
1 x		160 mm
1 x		180 mm
1 x		200 mm
1 x		240 mm
1 x		250 mm

1/2” TOOL CHESTS

Universal tool kit

- With 3 drawers and upper insert storage
- 6 point
- FlankTraction profile
- Matt finish
- Chrome vanadium
- Central locking of all drawers through lid opening and lid closure
- Lid locked by cylinder lock
- In durable steel tool chest

1/4" 1/2"

			kg
911.0100	100 pcs	Universal tool kit	19,80

12 x		1/4“: 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 -9 - 10 11 - 12 - 13 mm
12 x		1/2“: 14 - 15 - 16 - 17 - 18 - 19 - 20 22 - 24 - 27 - 30 - 32 mm
2 x		1/2“: 16 - 21 mm
1 x		1/4“: 911.2060
1 x		1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm
4 x		1/4“: 50 - 100 mm; 1/2“: 125 - 250 mm
2 x		1/4“: 100 mm; 1/2“: 250 mm
1 x		1/4“
2 x		1/4“ - 1/2“
2 x		1/4“: 145 mm; 1/2“: 250 mm

12 x		6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 17 19 - 22 mm
4 x		4,0 x 100 mm - 4,5 x 100 mm 5,0 x 100 mm - 5,0 x 150 mm
2 x		PH1 x 75 mm - PH2 x 100 mm
1 x		160 mm
1 x		180 mm
1 x		200 mm
1 x		10“

CHROME*plus*® Universal tool set

- With 3 drawers and upper insert storage
- 6 point
- FlankTraction profile
- Mirror polished
- Chrome vanadium
- Central locking of all drawers through lid opening and lid closure
- Lid locked by cylinder lock
- In durable steel tool chest

1/4" 1/2"

			kg
918.0100	99 pcs	CHROME*plus*® Universal tool set	19,50
13 x		1/4": 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 13 - 14 mm	
3 x		1/4": 8 - 10 - 13 mm	
1 x		1/4": 50 mm	
1 x		1/4"	
1 x		1/4": 110 mm	
1 x		1/4": 140 mm	
3 x		1/4": 4 - 5,5 - 7 mm	
2 x		1/4": PH1 - PH2	
2 x		1/4": PZ1 - PZ2	
6 x		1/4": 3 - 4 - 5 - 6 - 7 - 8 mm	
7 x		1/4": T10 - T15 - T20 - T25 - T27 T30 - T40	
12 x		1/2": 13 - 15 - 17 - 18 - 19 - 20 - 21 22 - 24 - 27 - 30 - 32 mm	
2 x		1/2": 17 - 19 mm	
2 x		1/2": 16 - 21 mm	
2 x		1/2": 125 - 250 mm	
1 x		1/2": F3/8" x M 1/2"	
1 x		1/2"	
1 x		1/2": 250 mm	
1 x		1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 7 - 8 - 10 mm	
12 x		8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 17 - 18 - 19 mm	
6 x		6 x 38 - 3 x 75 - 4 x 100 - 5,5 x 100 6,5 x 125 - 8 x 150 mm	
4 x		PH2 x 38 mm - PH1 x 75 mm - PH2 x 100 mm - PH3 x 150 mm	
1 x		160 mm	
1 x		180 mm	
1 x		200 mm	
1 x		10"	
1 x		250 mm	
1 x		300 g	

CHROME*plus*® Universal tool set

- With 3 drawers and upper insert storage
- 6 point
- FlankTraction profile
- Mirror polished
- Chrome vanadium
- Central locking of all drawers through lid opening and lid closure
- Lid locked by cylinder lock
- In durable steel tool chest

1/4" 1/2"

			kg
918.0200	99 pcs	CHROME*plus*® Universal tool set	19,50
13 x		1/4": 4 - 4,5 - 5 -5,5 - 6 - 7 - 8 - 9 - 10 11 - 12 - 13 - 14 mm	
3 x		1/4": 8 - 10 - 13 mm	
1 x		1/4": 50 mm	
1 x		1/4"	
1 x		1/4": 110 mm	
1 x		1/4": 145 mm	
3 x		1/4": 4 - 4,5 - 7 mm	
2 x		1/4": PH1 - PH2	
2 x		1/4": PZ1 - PZ2	
6 x		1/4": 3 - 4 - 5 - 6 - 7 - 8 mm	
7 x		1/4": T10 - T15 - T20 - T25 - T27 T30 - T40	
12 x		1/2": 13 - 15 - 17 - 18 - 19 - 20 - 21 22 - 24 - 27 - 30 - 32 mm	
2 x		1/2": 17 - 19 mm	
2 x		1/2": 16 - 21 mm	
2 x		1/2": 125 - 250 mm	
1 x		1/2": F3/8" x M 1/2"	
1 x		1/2"	
1 x		1/2": 250 mm	
1 x		1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm	
12 x		8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 17 - 18 - 19 mm	
6 x		6 x 38 mm - 3 x 75 mm - 4 x 100 mm 5,5 x 100 mm - 6,5 x 125 mm - 8 x 150 mm	
4 x		PH2 x 38 mm - PH1 x 75 mm PH2 x 100 mm - PH3 x 150 mm	
1 x		160 mm	
1 x		180 mm	
1 x		200 mm	
1 x		10"	
1 x		250 mm	
1 x		300 g	

CHROME*plus*® Universal tool set

- With 3 drawers and upper insert storage
- Imperial sizes
- 6 point
- FlankTraction profile
- Mirror polished
- Chrome vanadium
- Central locking of all drawers through lid opening and lid closure
- Lid locked by cylinder lock
- In durable steel tool chest

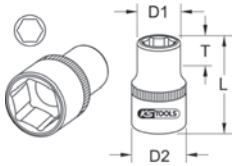
1/4" 1/2"

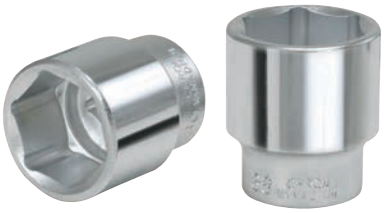
			kg
918.0150	99 pcs	CHROME*plus*® Universal tool set	25,60
13 x		1/4": 5/32" - 3/16" - 7/32" - 1/4" - 9/32" - 5/16" 11/32" - 3/8" - 13/32" - 7/16" - 15/32" - 1/2" - 9/16"	
3 x		1/4": 5/16" - 3/8" - 1/2"	
1 x		1/4": 50 mm	
1 x		1/4"	
1 x		1/4": 110 mm	
1 x		1/4": 140 mm	
3 x		1/4": 5/32" - 1/4" - 9/32"	
2 x		1/4": PH1 - PH2	
2 x		1/4": PZ1 - PZ2	
6 x		1/4": 1/8" - 5/32" - 3/16" - 7/32" - 1/4" - 5/16"	
7 x		1/4": T10 - T15 - T20 - T25 - T27 - T30 - T40	
12 x		1/2": 7/16" - 1/2" - 9/16" - 5/8" - 11/16" - 3/4" 13/16" - 7/8" - 15/16" 1.1/16" - 1.3/16" - 1.1/4"	
2 x		1/2": 11/16" - 3/4"	
2 x		1/2": 16 - 21 mm	
2 x		1/2": 125 - 250 mm	
1 x		1/2": F3/8" x M 1/2"	
1 x		1/2"	
1 x		1/2": 250 mm	
1 x		1/16" - 5/64" - 3/32" - 1/8" - 5/32" - 3/16" 7/32" - 1/4" - 5/16" - 3/8"	
12 x		1/4" - 5/16" - 3/8" - 7/16" - 1/2" - 9/16" - 5/8" 11/16" - 3/4" - 13/16" - 7/8" - 15/16"	
6 x		6 x 38 mm - 3 x 75 mm - 4 x 100 mm 5,5 x 100 mm - 6,5 x 125 mm - 8 x 150 mm	
4 x		PH2 x 38 mm - PH1 x 75 mm PH2 x 100 mm - PH3 x 150 mm	
1 x		125 mm	
1 x		180 mm	
1 x		200 mm	
1 x		10"	
1 x		250 mm	
1 x		300 g	

3/4" SOCKETS

Hexagonal socket

- 6 point
- FlankTraction profile
- According to DIN 3124 / ISO 2725
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Short execution
- For manual operation
- Matt finish
- Chrome vanadium



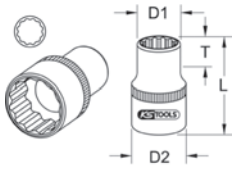


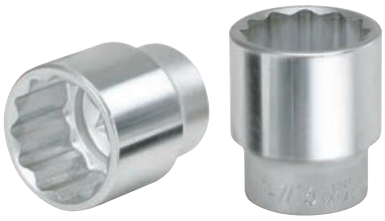
3/4"

	mm		D1 mm	D2 mm	L mm	T mm	
911.3406	18,0		28,0	36,0	52,0	19,0	210
911.3419	19,0		30,0	36,0	52,0	19,0	210
911.3421	21,0		32,0	36,0	52,0	19,0	220
911.3422	22,0		33,0	36,0	52,0	19,0	220
911.3423	23,0		35,0	38,0	52,0	19,0	220
911.3424	24,0		36,0	38,0	52,0	20,0	220
911.4103	25,0		36,0	35,0	52,0	17,0	246
911.3426	26,0		37,0	36,0	55,0	23,0	220
911.3427	27,0		40,0	36,0	55,0	24,0	230
911.4102	28,0		40,0	36,0	52,0	19,0	235
911.3429	29,0		42,0	36,0	55,0	24,0	260
911.3430	30,0		43,0	38,0	58,0	26,0	290
911.3432	32,0		46,0	38,0	58,0	27,0	300
911.3407	33,0		47,0	40,0	58,0	26,0	355
911.3408	34,0		47,0	40,0	58,0	24,0	360
911.3435	35,0		50,0	40,0	60,0	27,0	400
911.3436	36,0		51,0	40,0	60,0	28,0	430
911.4104	37,0		50,0	42,0	58,0	25,0	485
911.3438	38,0		53,0	41,0	60,0	28,0	490
911.4109	40,0		54,0	45,0	62,0	28,0	540
911.3441	41,0		57,0	44,0	63,0	31,0	540
911.4105	42,0		51,0	45,0	64,0	29,0	591
911.4112	43,0		58,0	45,0	65,0	29,0	620
911.4113	44,0		60,0	48,0	66,0	31,0	695
911.3446	46,0		63,0	44,0	66,0	33,0	630
911.4106	47,0		64,0	48,0	70,0	33,0	755
911.3450	50,0		68,0	48,0	69,0	35,0	840
911.4107	54,0		72,0	48,0	74,0	35,0	1010
911.3409	55,0		75,0	53,0	68,0	33,0	960
911.3411	60,0		80,0	53,0	68,0	33,0	1050
911.3413		3/4"	28,0	34,0	50,0	16,0	175
911.3414		13/16"	31,0	35,0	50,0	16,0	190
911.3416		7/8"	33,5	36,0	52,0	19,0	225
911.3418		15/16"	35,0	38,0	52,0	20,0	260
911.3425		1"	38,0	36,0	52,0	22,0	225
911.3428		1.1/16"	40,0	36,0	55,0	24,0	250
911.3431		1.1/8"	41,0	36,0	55,0	24,0	260
911.3433		1.3/16"	43,0	38,0	57,0	24,0	270
911.3437		1.1/4"	45,0	38,0	58,0	26,0	330
911.3439		1.5/16"	47,0	40,0	58,0	26,0	375
911.3442		1.3/8"	50,0	40,0	60,0	28,0	405
911.3443		1.7/16"	51,0	40,0	60,0	28,0	410
911.3444		1.1/2"	53,0	40,0	60,0	28,0	430
911.3445		1.5/8"	57,0	44,0	63,0	30,0	530
911.3447		1.11/16"	59,0	44,0	63,0	30,0	565
911.3448		1.3/4"	61,0	44,0	65,0	32,0	625
911.3449		1.13/16"	63,0	44,0	65,0	32,0	630
911.3451		1.7/8"	65,0	44,0	65,0	32,0	660
911.3452		2"	69,0	48,0	68,0	34,0	810

12 Point socket

- 12 point
- FlankTraction profile
- According to DIN 3124 / ISO 2725
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Short execution
- For manual operation
- Matt finish
- Chrome vanadium



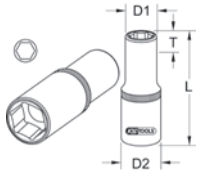


3/4"

	mm		D1 mm	D2 mm	L mm	T mm	
911.3474	17,0		27,0	34,0	50,0	16,0	100
911.3517	18,0		28,0	36,0	52,0	19,0	210
911.3518	19,0		30,0	36,0	52,0	19,0	210
911.4114	20,0		32,0	30,0	50,0	16,0	210
911.3525	21,0		32,0	36,0	52,0	19,0	220
911.3528	22,0		33,0	36,0	52,0	19,0	220
911.3531	23,0		35,0	38,0	52,0	19,0	220
911.3533	24,0		36,0	38,0	52,0	20,0	220
911.4115	25,0		36,0	36,0	52,0	17,0	240
911.3534	26,0		37,0	36,0	55,0	23,0	220
911.3537	27,0		40,0	36,0	55,0	24,0	230
911.4116	28,0		36,0	36,0	63,0	19,0	245
911.3539	29,0		42,0	36,0	55,0	24,0	260
911.3542	30,0		43,0	38,0	58,0	26,0	290
911.3543	32,0		46,0	38,0	58,0	27,0	300
911.3544	33,0		47,0	40,0	58,0	26,0	355
911.3545	34,0		47,0	40,0	58,0	24,0	360
911.3547	35,0		50,0	40,0	60,0	27,0	400
911.3548	36,0		51,0	40,0	60,0	28,0	430
911.4118	37,0		42,0	42,0	58,0	25,0	485
911.3549	38,0		53,0	41,0	60,0	28,0	490
911.3557	41,0		57,0	44,0	63,0	31,0	540
911.4117	42,0		45,0	45,0	64,0	19,0	590
911.4124	43,0		48,0	48,0	65,0	19,0	620
911.4125	44,0		48,0	48,0	66,0	31,0	695
911.3598	46,0		63,0	44,0	66,0	33,0	630
911.4119	47,0		48,0	48,0	70,0	33,0	750
911.3599	50,0		68,0	48,0	69,0	35,0	840
911.4121	52,0		48,0	48,0	72,0	35,0	900
911.4122	54,0		48,0	48,0	74,0	35,0	1010
911.3453	55,0		75,0	53,0	68,0	33,0	960
911.3454	60,0		80,0	53,0	68,0	33,0	1050
911.3519		3/4"	29,0	35,0	50,0	16,0	210
911.3521		13/16"	31,0	35,0	51,0	17,0	220
911.3522		7/8"	33,0	35,0	51,0	18,0	220
911.3523		15/16"	34,0	35,0	51,0	19,0	220
911.3524		1"	37,0	38,0	52,0	20,0	220
911.3526		1.1/16"	39,0	38,0	54,0	20,0	220
911.3527		1.1/8"	41,0	38,0	57,0	20,0	230
911.3529		1.3/16"	43,0	38,0	57,0	21,0	260
911.3530		1.1/4"	45,0	38,0	58,0	22,0	290
911.3532		1.5/16"	47,0	40,0	59,0	24,0	300
911.3535		1.3/8"	49,0	40,0	59,0	24,0	400
911.3536		1.7/16"	50,0	40,0	60,0	27,0	430
911.3538		1.1/2"	52,0	41,0	64,0	30,0	490
911.4134		1.9/16"	45,0	45,0	62,0	28,0	540
911.3541		1.5/8"	56,0	40,0	67,0	30,0	540
911.3455		1.11/16"	59,0	44,0	63,0	30,0	565
911.3546		1.3/4"	60,0	40,0	70,0	32,0	630
911.3456		1.13/16"	63,0	44,0	65,0	32,0	630
911.3457		1.7/8"	65,0	44,0	65,0	32,0	660
911.3550		2"	67,0	40,0	80,0	34,0	840
911.4135		2.1/16"	50,0	50,0	74,0	35,0	950
911.4129		2.1/8"	50,0	50,0	76,0	35,0	657
911.4131		2.3/16"	50,0	50,0	76,0	37,0	1120
911.4132		2.1/4"	50,0	50,0	76,0	37,0	1120
911.4136		2.3/8"	50,0	50,0	78,0	40,0	1240

Hexagonal socket, deep

- 6 point
- FlankTraction profile
- According to DIN 3124 / ISO 2725
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Long execution
- For manual operation
- Matt finish
- Chrome vanadium



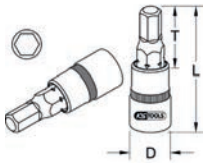
3/4"

	mm	D1 mm	D2 mm	L mm	T mm	
911.4142	19,0	30,0	36,0	90,0	20,0	388
911.4143	21,0	30,0	36,0	90,0	22,0	444
911.4144	22,0	33,0	36,0	90,0	22,0	460
911.4145	23,0	34,0	36,0	90,0	24,0	462
911.4146	24,0	35,0	36,0	90,0	24,0	477
911.4147	26,0	38,0	36,0	90,0	25,0	433
911.4148	27,0	38,0	36,0	90,0	28,0	431
911.4149	29,0	40,0	38,0	90,0	28,0	502
911.4151	30,0	42,0	38,0	90,0	31,0	584
911.4152	32,0	44,0	38,0	90,0	34,0	580
911.4153	33,0	46,0	38,0	90,0	34,0	646
911.4154	34,0	47,0	42,0	90,0	34,0	717
911.4155	35,0	48,0	42,0	90,0	37,0	677
911.4156	36,0	50,0	42,0	90,0	37,0	724
911.4157	38,0	52,0	45,0	90,0	41,0	913
911.4158	41,0	56,0	45,0	90,0	41,0	864
911.4159	42,0	58,0	45,0	90,0	46,0	913

3/4" BIT SOCKETS

Bit socket for hexagon screws

- Hexagon socket
- In accordance with DIN 7422
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Short execution
- with press-fitted nickel-plated bit
- For manual operation
- Matt finish
- Chrome vanadium



3/4"

	mm	D mm	L mm	T mm	
911.3458	14,0	38,0	80,0	25,0	350
911.3459	17,0	38,0	80,0	25,0	390
911.3461	19,0	38,0	80,0	25,0	430
911.3462	22,0	38,0	80,0	25,0	480

Bit socket for hexagon screws, long

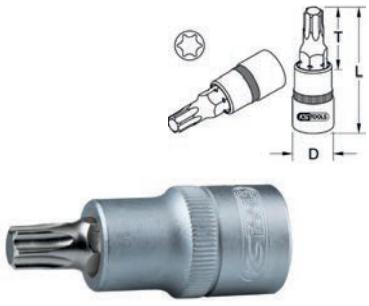
- Hexagon socket
- In accordance with DIN 7422
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Long execution
- with press-fitted nickel-plated bit
- For manual operation
- Matt finish
- Chrome vanadium

3/4"

	mm	D mm	L mm	T mm	g
911.3463	14,0	38,0	155,0	100,0	450
911.3464	17,0	38,0	155,0	100,0	540
911.3465	19,0	38,0	155,0	100,0	580
911.3466	22,0	38,0	155,0	100,0	610

Bit socket for Torx screws

- Torx
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- with press-fitted nickel-plated bit
- For manual operation
- Matt finish
- Chrome vanadium



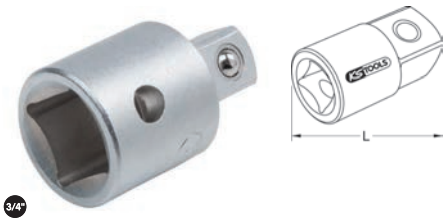
3/4"

		D mm	L mm	T mm	g
911.3467	T60	38,0	80,0	25,0	340
911.3468	T70	38,0	80,0	25,0	380
911.3469	T80	38,0	80,0	25,0	415
911.3471	T90	38,0	80,0	25,0	450
911.3472	T100	38,0	80,0	25,0	460

3/4" ADAPTERS

Reducing adaptor

- DIN 3123 / ISO 3316
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Internal square to DIN 3120 / ISO 1174 with ball reception
- For manual operation
- Matt finish
- Chrome vanadium



3/4"

	□	■	L mm	g
911.3412	3/4	1/2"	56,0	195

CHROME*plus*® reducing adaptor

- DIN 3123 / ISO 3316
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Internal square to DIN 3120 / ISO 1174 with ball reception
- For manual operation
- Mirror polished
- Chrome vanadium

3/4"

	□	■	L mm	g
918.3412	3/4"	1/2"	56,0	195

Adaptor

- DIN 3123 / ISO 3316
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Internal square to DIN 3120 / ISO 1174 with ball reception
- For manual operation
- Matt finish
- Chrome vanadium

3/4"

	□	■	L mm	g
911.3473	3/4"	1"	60,0	335

CHROME*plus*® Adaptor

- DIN 3123 / ISO 3316
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Internal square to DIN 3120 / ISO 1174 with ball reception
- For manual operation
- Mirror polished
- Chrome vanadium

3/4"

	□	■	L mm	g
918.3473	1"	3/4"	70,0	700

Adaptor and reducing adaptor set

- DIN 3123 / ISO 3316
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Internal square to DIN 3120 / ISO 1174 with ball reception
- For manual operation
- Matt finish
- Chrome vanadium
- In durable plastic storage case

1/4" 3/8" 1/2"

			kg
911.0106	6 pcs	1/4" x 3/8" - 3/8" x 1/4" - 3/8" x 1/2" - 1/2" x 3/8" - 1/2" x 3/4" - 3/4" x 1/2"	0,66

CHROME*plus*® adaptor and reducing adaptor set

- DIN 3123 / ISO 3316
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Internal square to DIN 3120 / ISO 1174 with ball reception
- For manual operation
- Mirror polished
- Chrome vanadium
- In durable plastic storage case

1/4" 3/8" 1/2"

			kg
918.0106	6 pcs	1/4" x 3/8" - 3/8" x 1/4" - 3/8" x 1/2" - 1/2" x 3/8" - 1/2" x 3/4" - 3/4" x 1/2"	0,66

Adaptor and reducing adaptor set

- DIN 3123 / ISO 3316
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Internal square to DIN 3120 / ISO 1174 with ball reception
- For manual operation
- Matt finish
- Chrome vanadium
- In durable plastic storage case

1/4" 3/8" 1/2" 3/4"

			kg
917.0707	7 pcs	Adaptor and reducing adaptor set	660

1 x		1/4“: 65 mm
1 x		1/2“F x 3/8“M
1 x		1/2“F x 3/4“M
1 x		1/4“F x 3/8“M
1 x		3/8“F x 1/4“M
1 x		3/8“F x 1/2“M
1 x		3/4“F x 1/2“M

CHROME*plus*® adaptor and reducing adaptor set

- DIN 3123 / ISO 3316
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Internal square to DIN 3120 / ISO 1174 with ball reception
- For manual operation
- Mirror polished
- Chrome vanadium
- In durable plastic storage case

1/4" 3/8" 1/2" 3/4"

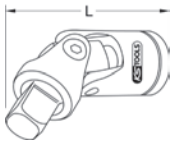
			kg
918.0707	7 pcs	CHROME*plus*® adaptor and reducing adaptor set	0,66

1 x		1/4“: 65 mm
1 x		1/2“F x 3/8“M
1 x		1/4“F x 3/8“M
1 x		1/2“F x 3/4“M
1 x		3/8“F x 1/4“M
1 x		3/8“F x 1/2“M
1 x		3/4“F x 1/2“M

3/4” UNIVERSAL JOINTS

Universal joint

- DIN 3123 / ISO 3316
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Flexible joint
- Matt finish
- Chrome vanadium



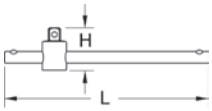
3/4"

	■	□	L mm	kg
911.3460	3/4”	3/4	115,0	400

3/4” T-HANDLES

Sliding T-handle

- DIN 3122 / ISO 3315
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- For manual operation
- Matt finish
- Chrome vanadium



3/4"

	H mm	L mm	kg
911.3405	16,0	450,0	1,22

3/4” EXTENSIONS

Extensions

- DIN 3123 / ISO 3316
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Internal square to DIN 3120 / ISO 1174 with ball reception
- For manual operation
- Matt finish
- Chrome vanadium

3/4"

	L mm	kg
911.3402	100,0	420
911.3403	200,0	730
911.3404	400,0	1600

3/4” MANUAL DRIVE TOOLS

L-Handle

- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Ideal for difficult to access areas
- Protects ratchet and torque wrenches from overloading
- Chrome vanadium

3/4"

	L mm	D mm	kg
911.4141	500,0	25,0	2,20

L-Handle

- DIN 3122 / ISO 3315
- Square drive to DIN 3120 / ISO 1174 with ball lock
- For manual operation
- Matt finish
- Chrome vanadium

3/4"

	L mm	kg
911.3520	320,0	0,96
911.3420	480,0	1,20

Flexi head drive handle

- Square drive to DIN 3120 / ISO 1174 with ball lock
- Ideal for difficult to access areas
- Protects ratchet and torque wrenches from overloading
- For manual operation
- Matt finish
- Chrome vanadium

3/4"

	L mm	kg
911.3470	500,0	2,00

CHROME*plus*® Flexible head drive handle

- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Ideal for difficult to access areas
- Protects ratchet and torque wrenches from overloading
- Burnished head
- Mirror polished
- Chrome vanadium

3/4"

	L mm	head,spare	kg
918.1801	1030,0	918.1801-1	3,80

3/4" RATCHETS

Reversible ratchet

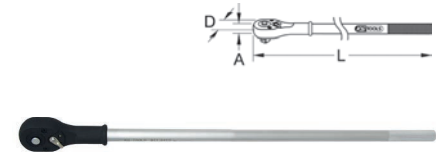
- DIN 3122 / ISO 3315
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Reversible
- Fine gearing 72 teeth ratchet mechanism
- With ejection mechanism on the ratchet head
- Ergonomic handle
- Matt finish
- Chrome vanadium

3/4"

	A mm	D mm	L mm	Repair set	kg
911.3400	21,0	55,0	500,0	911.3498	1,98

Reversible ratchet

- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Maximum load capacity up to 1.750 Nm
- Reversible
- Exact gearing 24-teeth ratchet mechanism
- Extremely substaintial handle bar
- With ejection mechanism on the ratchet head
- Knurled handle
- Recessed reverse lever
- Ideally suited for extreme loads
- Burnished head
- Matt finish
- Chrome vanadium

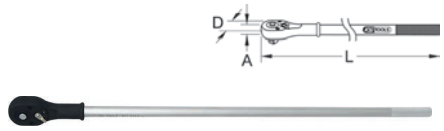


3/4"

	A mm	D mm	L mm	Repair set	kg
911.3415	35,0	70,0	520,0	911.3499	4,50

Reversible ratchet

- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Maximum load capacity up to 1.750 Nm
- Reversible
- Exact gearing 24-teeth ratchet mechanism
- Extremely substaintial handle bar
- With ejection mechanism on the ratchet head
- Knurled handle
- Recessed reverse lever
- Ideally suited for extreme loads
- Burnished head
- Matt finish
- Chrome vanadium

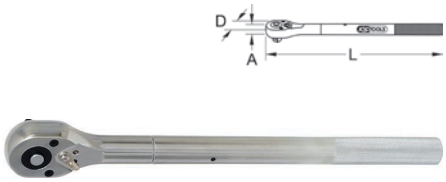


3/4"

	A mm	D mm	L mm	Repair set	kg
911.3410	35,0	70,0	1000,0	911.3499	3,00

CHROME*plus*® Reversible ratchet

- According to DIN 3122 / ISO 3315
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Reversible
- Exact gearing 24-teeth ratchet mechanism
- With ejection mechanism on the ratchet head
- Knurled handle
- Recessed reverse lever
- Mirror polished
- Chrome vanadium

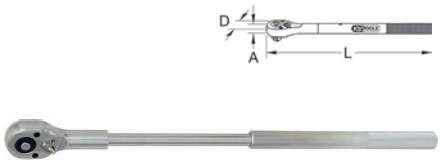


3/4"

	A mm	D mm	L mm	Repair set	kg
911.3401	30,0	63,0	500,0	911.3499	2,55

CHROME*plus*® Telescopic reversible ratchet

- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Reversible
- Exact gearing 24-teeth ratchet mechanism
- With ejection mechanism on the ratchet head
- Knurled handle
- Recessed reverse lever
- Mirror polished
- Chrome vanadium

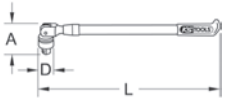


3/4"

	A mm	D mm	L mm	Repair set	kg
911.3490	30,0	63,0	510-730	911.3499	3,35

Adjustable lengths high torque ratchet

- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Reversible
- Exact gearing 24-teeth ratchet mechanism
- Infinitely variable
- Mirror polished
- Chrome vanadium



3/4"

	■	D mm	L mm	A mm	kg
918.1805	3/4"	46,0	610-915	96,0	3,00

3/4" SOCKETS

Socket set

- 6 point
- FlankTraction profile
- Matt finish
- Chrome vanadium
- In durable plastic storage case

3/4"

			kg
911.0721	21 pcs	Socket set	14,50
16 x		19 - 21 - 22 - 23 - 24 - 26 - 27 - 29 - 30 32 - 35 - 36 - 38 - 41 -46 - 50 mm	
3 x		100 - 200 - 400 mm	
1 x		450 mm	
1 x		500 mm	

Socket set

- Imperial sizes
- 6 point
- FlankTraction profile
- Matt finish
- Chrome vanadium
- In durable plastic storage case

3/4"

			kg
911.0752	21 pcs	Socket set	14,00
16 x		3/4" - 13/16" - 7/8" - 15/16" - 1" - 1.1/16" - 1.1/8" - 1.3/16" - 1.1/4" - 1.5/16" - 1.3/8" - 1.7/16" - 1.1/2" - 1.5/8" - 1.3/4" - 2"	
3 x		100 - 200 - 400 mm	
1 x		450 mm	
1 x		500 mm	

Socket set

- 12 point
- FlankTraction profile
- Matt finish
- Chrome vanadium
- In durable plastic storage case

3/4"

			kg
911.0722	21 pcs	Socket set	14,00
16 x		19 - 21 - 22 - 23 - 24 - 26 - 27 - 29 - 30 32 - 35 - 36 - 38 - 41 - 46 - 50 mm	
3 x		100 - 200 - 400 mm	
1 x		450 mm	
1 x		520 mm	

Socket set

- Imperial sizes
- FlankTraction profile
- 12 point
- Matt finish
- Chrome vanadium
- In durable plastic storage case

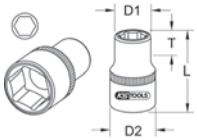
3/4"

			kg
911.0751	21 pcs	Socket set	14,50
16 x		3/4"-13/16"-7/8"-15/16"-1"-1.1/16"-1.1/8"-1.3/16" 1.1/4"-1.5/16-1.3/8"-1.7/16"-1.1/2"-1.5/8"-1.3/4"-2"	
3 x		100 - 200 - 400 mm	
1 x		450 mm	
1 x		520 mm	

1" SOCKETS

Hexagonal socket

- 6 point
- FlankTraction profile
- According to DIN 3124 / ISO 2725
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Short execution
- For manual operation
- Matt finish
- Chrome vanadium

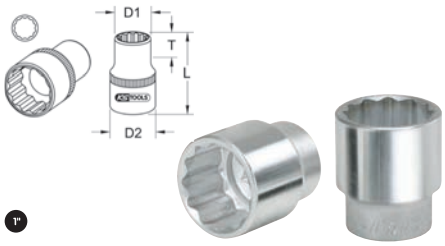


1"

	mm		D1 mm	D2 mm	L mm	T mm	kg
911.1036	36,0		51,0	45,0	66,0	25,0	0,51
911.1038	38,0		54,0	45,0	66,0	26,0	0,54
911.1041	41,0		57,0	45,0	70,0	30,0	0,55
911.1046	46,0		65,0	50,0	75,0	30,0	0,80
911.1050	50,0		70,0	57,0	76,0	31,0	1,00
911.1054	54,0		74,0	57,0	81,0	32,0	1,10
911.1055	55,0		76,0	57,0	81,0	32,0	1,20
911.1058	58,0		79,0	57,0	81,0	32,0	1,26
911.1060	60,0		82,0	57,0	85,0	40,0	1,40
911.1063	63,0		86,0	57,0	87,0	40,0	1,50
911.1065	65,0		88,0	57,0	87,0	40,0	1,63
911.1067	67,0		90,0	57,0	88,0	40,0	1,70
911.1070	70,0		94,0	68,0	93,0	44,0	2,00
911.1071	71,0		95,0	68,0	93,0	45,0	2,10
911.1075	75,0		100,0	68,0	97,0	45,0	2,20
911.1077	77,0		101,0	68,0	101,0	50,0	2,25
911.1080	80,0		105,0	68,0	103,0	51,0	2,25
911.1824	82,0		110,8	63,3	110,0	52,0	3,20
911.1825	85,0		114,0	71,3	110,0	52,0	3,70
911.1826	90,0		121,0	71,3	110,0	56,0	4,10
911.1827	95,0		127,0	71,3	110,0	56,0	4,60
911.1828	100,0		133,0	71,3	115,0	56,0	5,00
911.1022		1.7/16"	55,0	48,0	70,0	30,0	0,60
911.1023		1.1/2"	56,0	48,0	70,0	30,0	0,65
911.1024		1.5/8"	60,0	50,0	70,0	30,0	0,70
911.1025		1.13/16"	66,0	50,0	75,0	33,0	0,83
911.1026		1.7/8"	68,0	50,0	75,0	33,0	0,89
911.1027		2"	72,0	50,0	75,0	5,0	0,94
911.1028		2.1/16"	74,0	50,0	75,0	35,0	0,99
911.1821		2.1/8"	74,4	56,3	84,0	31,0	1,20
911.1029		2.3/16"	78,0	50,0	80,0	37,0	1,18
911.1031		2.1/4"	80,0	50,0	80,0	37,0	1,23
911.1032		2.3/8"	84,0	50,0	85,0	41,0	1,39
911.1033		2.7/16"	86,0	50,0	85,0	41,0	1,54
911.1822		2.1/2"	86,4	58,3	92,0	35,0	1,46
911.1034		2.9/16"	90,0	59,5	88,0	44,5	1,79
911.1035		2.5/8"	92,0	59,0	88,0	44,0	1,81
911.1037		2.3/4"	96,0	59,0	92,0	48,0	2,06
911.1039		2.13/16"	98,0	60,0	92,0	48,0	2,14
911.1042		2.15/16"	102,0	60,0	95,0	51,0	2,30
911.1043		3"	104,0	60,0	95,0	51,0	2,35
911.1044		3.1/8"	109,0	60,0	97,0	54,0	2,56
911.1823		3.3/8"	113,4	73,3	110,0	56,0	3,20

12 Point socket

- 12 point
- FlankTraction profile
- According to DIN 3124 / ISO 2725
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Short execution
- For manual operation
- Matt finish
- Chrome vanadium



1"

	mm		D1 mm	D2 mm	L mm	T mm	kg
911.4139	35,0		50,0	46,0	65,0	26,0	0,50
911.1045	36,0		54,0	48,0	70,0	30,0	0,51
911.1047	38,0		56,0	48,0	70,0	30,0	0,60
911.1048	41,0		60,0	50,0	70,0	31,0	0,64
911.1049	46,0		66,0	50,0	75,0	34,0	0,90
911.1051	50,0		71,0	50,0	75,0	35,0	1,10
911.1052	54,0		75,0	50,0	80,0	36,0	1,14
911.1053	55,0		80,0	50,0	80,0	38,0	1,30
911.1056	58,0		83,0	50,0	85,0	40,0	1,40
911.1057	60,0		85,0	50,0	85,0	41,0	1,50
911.1059	63,0		86,0	60,0	88,0	43,0	1,68
911.1061	65,0		88,0	60,0	88,0	45,0	1,74
911.1062	67,0		90,0	60,0	88,0	46,0	1,85
911.1064	70,0		92,0	60,0	92,0	48,0	2,00
911.1066	71,0		94,0	60,0	92,0	50,0	2,13
911.1068	75,0		95,0	60,0	95,0	51,0	2,28
911.1069	77,0		93,0	60,0	96,0	52,0	2,40
911.1072	80,0		97,0	60,0	97,0	54,0	2,58
911.1073		1.7/16"	55,0	48,0	70,0	30,0	0,60
911.1074		1.1/2"	56,0	48,0	70,0	30,0	0,65
911.1076		1.5/8"	60,0	50,0	70,0	30,0	0,70
911.1078		1.13/16"	66,0	50,0	75,0	33,0	0,83
911.1079		1.7/8"	68,0	50,0	75,0	33,0	0,89
911.1082		2"	72,0	50,0	75,0	5,0	0,94
911.1083		2.1/16"	74,0	50,0	75,0	35,0	0,99
911.1084		2.3/16"	78,0	50,0	80,0	37,0	1,18
911.1093		2.1/4"	80,0	50,0	80,0	37,0	1,23
911.1094		2.3/8"	84,0	50,0	85,0	41,0	1,39
911.1095		2.7/16"	86,0	50,0	85,0	41,0	1,54
911.1096		2.9/16"	90,0	59,5	88,0	44,5	1,79
911.1097		2.5/8"	92,0	59,0	88,0	44,0	1,81
911.1098		2.3/4"	96,0	59,0	92,0	48,0	2,06
911.0801		2.13/16"	98,0	60,0	92,0	48,0	2,14
911.0802		2.15/16"	102,0	60,0	95,0	51,0	2,30
911.0803		3"	104,0	60,0	95,0	51,0	2,35
911.0804		3.1/8"	109,0	60,0	97,0	54,0	2,56

1" BIT SOCKETS

Bit socket for hexagon screws

- Hexagon socket
- In accordance with DIN 7422
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Short execution
- with press-fitted nickel-plated bit
- For manual operation
- Matt finish
- Chrome vanadium

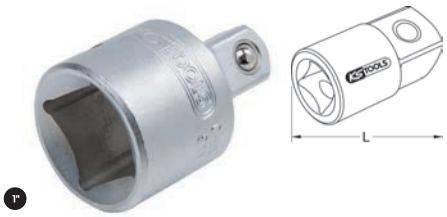
1"

	mm	D mm	L mm	T mm	g
911.1805	14,0	43,0	85,0	25,0	390
911.1806	17,0	43,0	85,0	25,0	415
911.1807	19,0	43,0	85,0	25,0	445
911.1808	22,0	48,0	90,0	25,0	660
911.1809	24,0	48,0	90,0	25,0	720
911.1811	27,0	49,0	90,0	25,0	830

1" ADAPTERS

Reducing adaptor

- DIN 3123 / ISO 3316
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Internal square to DIN 3120 / ISO 1174 with ball reception
- For manual operation
- Matt finish
- Chrome vanadium



	□	■	L mm	g
911.4166	1"	3/4"	70,0	480

CHROME*plus*® reducing adaptor

- DIN 3123 / ISO 3316
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Internal square to DIN 3120 / ISO 1174 with ball reception
- For manual operation
- Mirror polished
- Chrome vanadium

	□	■	L mm	g
918.4166	1"	3/4"	70,0	480

1" UNIVERSAL JOINTS

Universal joint

- DIN 3123 / ISO 3316
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Flexible joint
- Matt finish
- Chrome vanadium

	L mm	kg
911.4161	140,0	1,48

1" T-HANDLES

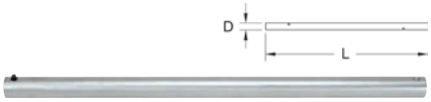
Sliding adaptor

- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- To the use with extensions
- For manual operation
- Matt finish
- Chrome vanadium

	L mm	g
911.1081	80,0	640

Universal handle

- With ball lock
- For manual operation
- Matt finish
- Chrome vanadium



	D mm	L mm	kg
911.1021	28,0	540,0	2,55

1" EXTENSIONS

CHROME*plus*® Extension

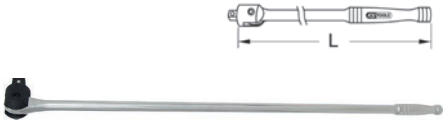
- DIN 3123 / ISO 3316
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Mirror polished
- Chrome vanadium

	L mm	kg
911.1020	200,0	1,33
911.1040	400,0	2,35

1/4" MANUAL DRIVE TOOLS

CHROME*plus*® Flexible head drive handle

- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Ideal for difficult to access areas
- Protects ratchet and torque wrenches from overloading
- Burnished head
- Mirror polished
- Chrome vanadium

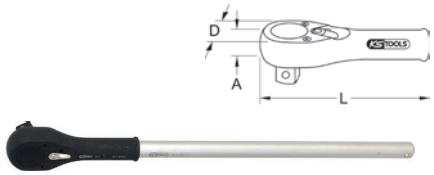


	L mm	head,spare	kg
918.1802	1050,0	918.1802-1	3,80

1" RATCHETS

Reversible ratchet

- According to DIN 3122 / ISO 3315
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Reversible
- Exact gearing 24-teeth ratchet mechanism
- Lightweight recessed reverse lever
- Ideally suited for extreme loads
- Burnished head
- With handle
- Mirror polished
- Chrome vanadium



	A mm	D mm	L mm	Replacement handle bar	Repair set	kg
911.1019	35,0	70,0	210,0	911.1021	911.1099	4,60

1" SET ASSORTMENTS

Socket set

- 6 point
- FlankTraction profile
- Matt finish
- Chrome vanadium
- Robust 24 teeth ratchet mechanism
- In durable steel storage case

			kg
911.0815	15 pcs	36 - 41 - 46 - 50 - 55 - 60 - 65 - 70 - 75 - 80 mm	29,00
911.0822	22 pcs	36 - 38 - 41 - 46 - 50 - 54 - 55 - 58 - 60 - 63 - 65 - 67 - 70 - 71 - 75 - 77 - 80 mm	43,50

Socket set

- 12 point
- FlankTraction profile
- Matt finish
- Chrome vanadium
- Robust 24 teeth ratchet mechanism
- In durable steel storage case

			kg
911.0814	15 pcs	36 - 41 - 46 - 50 - 55 - 60 - 65 - 70 - 75 - 80 mm	29,00
911.0824	22 pcs	36 - 38 - 41 - 46 - 50 - 54 - 55 - 58 - 60 - 63 - 65 - 67 - 70 - 71 - 75 - 77 - 80 mm	43,50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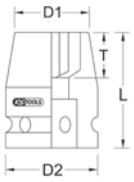
Innovation is
our mission!

1/4" POWER SOCKETS

Hexagon impact socket

- 6 point
- According to DIN 3129 / ISO 2725-2
- Internal square drive to DIN 3121 / ISO 1174
- Short execution
- For machinery usage
- Phosphate finish
- Chrome molybdenum



1/4"

	mm		L mm	D1 mm	D2 mm	T mm	kg
515.1501	4,0		23,0	10,0	13,0	3,0	12
515.1502	4,5		23,0	10,0	13,0	3,0	12
515.1503	5,0		23,0	10,0	13,0	3,0	12
515.1541	5,5		23,0	10,0	13,0	3,0	14
515.1542	6,0		23,0	10,0	13,0	3,0	14
515.1543	7,0		23,0	11,0	13,0	3,0	14
515.1544	8,0		23,0	12,0	13,0	3,5	14
515.1545	9,0		23,0	13,0	13,0	4,0	16
515.1546	10,0		23,0	14,0	13,0	5,0	16
515.1547	11,0		23,0	16,0	13,0	6,0	19
515.1548	12,0		23,0	17,0	13,0	6,0	19
515.1549	13,0		23,0	19,0	13,0	6,0	21
515.1550	14,0		23,0	20,0	13,0	7,0	21
515.1552		3/16"	23,0	9,0	13,0	3,0	14
515.1553		1/4"	23,0	10,0	13,0	3,0	14
515.1554		5/16"	23,0	13,0	13,0	3,0	14
515.1505		11/32"	23,0	13,0	10,0	4,0	15
515.1555		3/8"	23,0	14,0	13,0	4,0	16
515.1556		7/16"	23,0	16,0	13,0	6,0	19
515.1525		1/2"	23,0	17,0	14,0	6,0	22

Torx E impact socket, short

- Torx E
- Internal square drive to DIN 3121 / ISO 1174
- Short execution
- For machinery usage
- Phosphate finish
- Chrome molybdenum

1/4"

		L mm	D1 mm	D2 mm	T mm	kg
515.0998	E4	25,0	7,0	12,0	6,0	10
515.0999	E5	25,0	8,0	12,0	6,0	10
515.1066	E6	25,0	8,0	12,0	7,0	11
515.1067	E7	25,0	8,0	12,0	8,0	11
515.1068	E8	25,0	11,0	12,0	8,0	12
515.1069	E10	25,0	14,0	14,0	10,0	14
515.1071	E11	25,0	14,0	14,0	10,0	14
515.1074	E12	25,0	14,0	14,0	10,0	15

Spiral profile impact socket

- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Rejuvenating special profile with aggressive spiral nut
- For turning off of screws with rounded or turned heads
- Bites firmly to give a firm connection between stuck nut and head
- Phosphate finish
- Chrome molybdenum

1/4"

	mm	D mm	L mm	kg
913.1473	6,0	17,0	32,0	40
913.1408	8,0	17,0	32,0	40
913.1410	10,0	17,0	32,0	40
913.1470	11,0	17,0	32,0	40
913.1412	12,0	17,0	32,0	40

Spiral profile impact socket set

- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Rejuvenating special profile with aggressive spiral nut
- For turning off of screws with rounded or turned heads
- Bites firmly to give a firm connection between stuck nut and head
- Drive out pin
- Phosphate finish
- Chrome molybdenum
- In durable plastic storage case

1/4" 1/2"

			kg
913.1460	15 pcs	Spiral profile impact socket set	1,10
8 x		1/2": 13 - 14 - 15 - 17 - 19 - 21 - 24 - 27 mm	
5 x		1/4": 6 - 8 - 10 - 11 - 12 mm	
2 x		1/4"	

1/4" POWER EXTENSIONS

Impact extension

- Square drive adaptor to DIN 3121 / ISO 1174 with ball lock
- Internal square drive to DIN 3121 / ISO 1174
- For machinery usage
- Phosphate finish
- Chrome molybdenum

1/4"

	L mm	D mm	kg
515.1560	50,0	13,0	25
515.1580	100,0	13,0	48

1/4" IMPACT BALL JOINTS

Power universal ball joint

- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Very breakage resistant
- For machinery usage
- Phosphate finish
- Special steel

1/4"

	□	■	Length mm	kg
515.1584	1/4"	1/4"	40,0	25

1/4" POWER ADAPTERS

Impact socket adapter

- Square drive adaptor to DIN 3121 / ISO 1174 with ball lock
- Internal square drive to DIN 3121 / ISO 1174
- For machinery usage
- Phosphate finish
- Chrome molybdenum

1/4"

	□	■	L mm	D mm	kg
515.1530	1/4"	3/8"	26,0	13,0	16

Impact adaptor and reducing adaptor set

- Ideal set of compilation for adaptors and ball joints
- Chrome molybdenum
- In durable plastic storage case

1/4" 3/8" 1/2" 3/4"

			kg
515.0100	9 pcs	Impact adaptor and reducing adaptor set	1,78
1 x		1/4"F x 3/8"M	
1 x		3/8"F x 1/4"M	
1 x		3/8"F x 1/2"M	
1 x		1/2"F x 3/8"M	
1 x		1/2"F x 3/4"M	

1 x		3/4“F x 1/2“M
1 x		3/8“
1 x		1/2“
1 x		3/4“

1/4” POWER SECURING ELEMENTS

O-Ring

- For impact drivers and impact sockets
- For safeguard

1/4"

	for sockets mm	D mm	B mm	g
515.1403	5,5-17	9,0	3,0	1

Connection pin for sockets

- For impact drivers and impact sockets
- For safeguard

1/4"

	for sockets mm	D mm	L mm	g
515.1404	5,5-17	1,5	10,0	1

3/8” POWER SOCKETS

Hexagon impact socket

- 6 point
- According to DIN 3129 / ISO 2725-2
- Internal square drive to DIN 3121 / ISO 1174
- Short execution
- For machinery usage
- Phosphate finish
- Chrome molybdenum

3/8"

	mm		L mm	D1 mm	D2 mm	T mm	g
515.1506	6,0		28,0	11,0	19,0	3,0	32
515.1507	7,0		32,0	12,0	19,0	3,5	32
515.1508	8,0		32,0	14,0	19,0	4,0	32
515.1509	9,0		32,0	15,0	19,0	4,0	32
515.1510	10,0		32,0	16,0	19,0	5,0	33
515.1511	11,0		32,0	17,0	19,0	6,0	35
515.1512	12,0		32,0	18,0	19,0	6,0	35
515.1513	13,0		32,0	20,0	19,0	6,0	46
515.1514	14,0		32,0	21,0	22,0	8,0	46
515.1515	15,0		32,0	22,0	22,0	8,0	50
515.1516	16,0		32,0	24,0	22,0	8,0	54
515.1517	17,0		32,0	24,0	22,0	8,0	54
515.1518	18,0		32,0	26,0	22,0	9,0	62
515.1519	19,0		32,0	28,0	22,0	9,0	70
515.1520	20,0		32,0	28,0	22,0	9,0	70
515.1521	21,0		32,0	30,0	22,0	10,0	70
515.1522	22,0		32,0	32,0	22,0	10,0	83
515.1523	23,0		32,0	32,0	22,0	12,0	120
515.1524	24,0		32,0	34,0	22,0	12,0	130
515.1526		5/16”	26,0	14,5	19,0	3,5	30
515.1527		3/8”	26,0	15,2	19,0	3,5	30
515.1528		7/16”	26,0	16,7	19,0	3,5	35
515.1529		1/2”	27,0	18,5	19,0	3,5	45
515.1551		9/16”	27,0	20,5	22,0	4,0	55
515.1557		7/8”	28,0	22,5	22,0	4,0	60
515.1558		5/8”	290,0	24,5	22,0	4,0	65
515.1559		11/16”	30,0	26,8	22,0	5,0	75
515.1561		3/4”	31,0	28,5	22,0	5,0	85
515.1562		13/16”	32,0	30,0	22,0	5,0	95

Hexagon impact socket set

- 6 point
- According to DIN 3129 / ISO 2725-2
- Internal square drive to DIN 3121 / ISO 1174
- Short execution
- For machinery usage
- Phosphate finish
- Chrome molybdenum
- On a socket rail

3/8"

			kg
515.0608	8 pcs	10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 mm	1,49

Hexagon impact socket, deep

- 6 point
- Internal square drive to DIN 3121 / ISO 1174
- Long execution
- For machinery usage
- Phosphate finish
- Chrome molybdenum

3/8"

	mm	L mm	D1 mm	D2 mm	T mm	g
515.1606	6,0	63,0	11,0	19,0	4,0	75
515.1607	7,0	63,0	12,0	19,0	4,0	75
515.1608	8,0	63,0	14,0	19,0	4,0	75
515.1609	9,0	63,0	15,0	19,0	4,0	75
515.1610	10,0	63,0	16,0	19,0	5,0	75
515.1611	11,0	63,0	17,0	19,0	6,0	75
515.1612	12,0	63,0	18,0	19,0	6,0	80
515.1613	13,0	63,0	20,0	22,0	6,0	105
515.1614	14,0	63,0	21,0	22,0	8,0	105
515.1615	15,0	63,0	22,0	22,0	8,0	110
515.1616	16,0	63,0	24,0	22,0	8,0	125
515.1617	17,0	63,0	24,0	22,0	8,0	125
515.1618	18,0	63,0	26,0	22,0	9,0	135
515.1619	19,0	63,0	28,0	22,0	9,0	165
515.1620	20,0	63,0	28,0	22,0	9,0	220
515.1621	21,0	63,0	30,0	22,0	10,0	230
515.1622	22,0	63,0	32,0	22,0	10,0	240
515.1623	23,0	63,0	32,0	22,0	12,0	260
515.1624	24,0	63,0	34,0	22,0	12,0	260

Hexagont impact socket set, deep

- 6 point
- Internal square drive to DIN 3121 / ISO 1174
- Long execution
- For machinery usage
- Phosphate finish
- Chrome molybdenum
- On a socket rail

3/8"

			kg
515.0648	8 pcs	10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 mm	1,00

12 point impact socket

- 12 point
- Internal square drive to DIN 3121 / ISO 1174
- Short execution
- For machinery usage
- Phosphate finish
- Chrome molybdenum

3/8"

	mm		L mm	D1 mm	D2 mm	T mm	g
515.1563	6,0		28,0	11,3	19,0	3,0	32
515.1564	7,0		32,0	12,1	19,0	3,5	32
515.0958	8,0		28,0	14,0	19,0	4,0	40
515.0959	9,0		28,0	15,0	19,0	4,0	40
515.0960	10,0		28,0	16,0	19,0	5,0	40
515.0961	11,0		30,0	17,0	19,0	6,0	40
515.0962	12,0		30,0	18,0	19,0	6,0	40
515.0963	13,0		30,0	20,0	22,0	6,0	60
515.0964	14,0		30,0	21,0	22,0	8,0	60
515.0965	15,0		30,0	22,0	22,0	8,0	60
515.0966	16,0		30,0	24,0	22,0	8,0	70
515.0967	17,0		32,0	24,0	22,0	8,0	80
515.0968	18,0		32,0	26,0	22,0	9,0	80
515.0969	19,0		32,0	28,0	22,0	9,0	90
515.1565	20,0		32,0	27,8	22,0	9,0	70
515.1566	21,0		32,0	29,8	22,0	10,0	70
515.1567	22,0		32,0	31,8	22,0	10,0	83
515.1568	23,0		32,0	31,8	22,0	12,0	120
515.1569	24,0		32,0	33,8	22,0	12,0	130
515.1570		5/16”	26,0	14,5	19,0	3,5	30
515.1571		3/8”	26,0	15,2	19,0	3,5	30
515.1572		7/16”	26,0	16,7	19,0	3,5	35
515.1573		1/2”	27,0	18,5	19,0	3,5	45
515.1574		9/16”	27,0	20,5	22,0	4,0	55
515.1575		7/8”	28,0	22,5	22,0	4,0	60
515.1576		5/8”	290,0	24,5	22,0	4,0	65
515.1577		11/16”	30,0	26,8	22,0	5,0	75
515.1578		3/4”	31,0	28,5	22,0	5,0	85
515.1579		13/16”	32,0	30,0	22,0	5,0	95

12 Point impact socket

- 12 point
- Internal square drive to DIN 3121 / ISO 1174
- Short execution
- For machinery usage
- Phosphate finish
- Chrome molybdenum
- In durable plastic storage case

3/8"

			kg	
515.0950	10 pcs	8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 mm	1,65	

Spiral profile impact socket

- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Rejuvenating special profile with aggressive spiral nut
- For turning off of screws with rounded or turned heads
- Bites firmly to give a firm connection between stuck nut and head
- Phosphate finish
- Chrome molybdenum

3/8"

	mm	D mm	L mm	g	
913.3858	8,0	17,0	34,0	30	
913.3860	10,0	15,0	34,0	30	
913.3861	11,0	16,0	34,0	30	
913.3862	12,0	18,0	34,0	40	
913.3863	13,0	18,5	34,0	40	
913.3864	14,0	20,5	34,0	40	
913.3865	15,0	22,0	34,0	60	
913.3866	16,0	22,5	34,0	60	
913.3867	17,0	24,5	34,0	70	
913.3868	18,0	26,0	34,0	80	
913.3869	19,0	27,0	34,0	80	

Spiral profile impact socket set

- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Rejuvenating special profile with aggressive spiral nut
- For turning off of screws with rounded or turned heads
- Bites firmly to give a firm connection between stuck nut and head
- Drive out pin
- Phosphate finish
- Chrome molybdenum
- In durable plastic storage case

3/8"

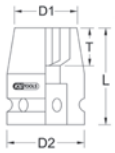
			g	
913.3855	10 pcs	Spiral profile impact socket set	660	

consists of:

		g	
913.3860	3/8" Spiral profile socket, 10 mm	30	
913.3861	3/8" Spiral profile socket, 11 mm	30	
913.3862	3/8" Spiral profile socket, 12 mm	40	
913.3863	3/8" Spiral profile socket, 13 mm	40	
913.3864	3/8" Spiral profile socket, 14 mm	40	
913.3865	3/8" Spiral profile socket, 15 mm	60	
913.3866	3/8" Spiral profile socket, 16 mm	60	
913.3867	3/8" Spiral profile socket, 17 mm	70	
913.3869	3/8" Spiral profile socket, 19 mm	80	
913.3870	Burr arbor	30	

Torx E impact socket

- Torx E profile
- Internal square drive to DIN 3121 / ISO 1174
- Short execution
- For machinery usage
- Phosphate finish
- Chrome molybdenum



3/8"

		L mm	D1 mm	D2 mm	T mm	g	
515.0970	E4	30,0	8,0	19,0	4,0	30	
515.0980	E5	30,0	8,0	19,0	4,0	30	
515.0981	E6	30,0	10,0	19,0	5,0	30	
515.0982	E7	30,0	10,0	19,0	6,0	30	
515.0983	E8	30,0	11,0	19,0	6,0	30	
515.0984	E10	30,0	13,0	19,0	8,0	37	
515.0996	E11	30,0	15,0	17,0	6,0	13	
515.0985	E12	30,0	15,0	19,0	9,0	40	
515.0986	E14	30,0	17,0	19,0	10,0	50	
515.0997	E16	30,0	20,0	20,0	10,0	24	

3/8" POWER BIT SOCKETS

Force bit socket for hexagon socket screws, short

- Internal square drive to DIN 3121 / ISO 1174
- Short execution
- For machinery usage
- Phosphate finish
- Chrome molybdenum

3/8"

	mm	Length mm	Ø mm	g	
515.1586	3,0	50,0	19,0	65	
515.1587	4,0	50,0	19,0	65	
515.1588	5,0	50,0	19,0	65	
515.1589	6,0	50,0	19,0	65	
515.1590	8,0	50,0	19,0	75	
515.1591	10,0	60,0	19,0	80	
515.1592	12,0	60,0	19,0	90	

3/8" POWER EXTENSIONS

Impact extension

- Square drive adaptor to DIN 3121 / ISO 1174 with ball lock
- Internal square drive to DIN 3121 / ISO 1174
- For machinery usage
- Phosphate finish
- Chrome molybdenum

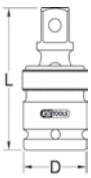
3/8"

	L mm	D mm	g	
515.1534	75,0	19,0	85	
515.1593	125,0	19,0	140	
515.1535	150,0	19,0	150	
515.1540	250,0	19,0	250	

3/8" POWER BALL JOINTS

Impact universal ball joint

- Square drive adaptor to DIN 3121 / ISO 1174 with ball lock
- Internal square drive to DIN 3121 / ISO 1174
- Suspension
- For machinery usage
- Phosphate finish
- Chrome molybdenum



3/8"

	□	■	L mm	D mm	g	
515.1533	3/8"	3/8"	53,0	24,0	105	

3/8” POWER ADAPTERS

Impact adaptor

- Square drive adaptor to DIN 3121 / ISO 1174 with ball lock
- Internal square drive to DIN 3121 / ISO 1174
- For machinery usage
- Phosphate finish
- Chrome molybdenum

3/8”

	□	■	L mm	D mm	g
515.1531	3/8”	1/4”	32,0	22,0	20
515.1532	3/8”	1/2”	36,0	22,0	62

Impact adaptor and reducing adaptor set

- Ideal set of compilation for adaptors and ball joints
- Chrome molybdenum
- In durable plastic storage case

1/4” 3/8” 1/2” 3/4”

			kg
515.0100	9 pcs	Impact adaptor and reducing adaptor set	1,78

1 x		1/4“F x 3/8“M
1 x		3/8“F x 1/4“M
1 x		3/8“F x 1/2“M
1 x		1/2“F x 3/8“M
1 x		1/2“F x 3/4“M
1 x		3/4“F x 1/2“M
1 x		3/8“
1 x		1/2“
1 x		3/4“

3/8” POWER SECURING ELEMENTS

O-Ring

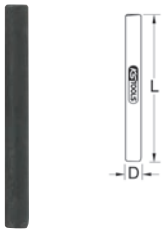
- For impact drivers and impact sockets
- For safeguard

3/8”

	for sockets mm	D mm	B mm	g
515.1536	6-12	13,0	4,0	10
515.1537	13-22	16,0	4,0	12

Connection pin for sockets

- For impact drivers and impact sockets
- For safeguard



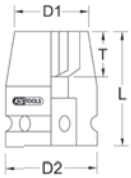
3/8”

	for sockets mm	D mm	L mm	g
515.1538	6-12	2,5	14,0	10
515.1539	13-22	2,5	16,0	14

1/2” POWER SOCKETS

Hexagon impact socket, extra short

- 6 point
- Very flat design
- According to DIN 3129 / ISO 2725-2
- Internal square drive to DIN 3121 / ISO 1174
- Short execution
- For machinery usage
- Phosphate finish
- Chrome molybdenum



1/2”

	mm	L mm	D1 mm	D2 mm	T mm	g
515.0056	10,0	28,0	18,0	25,0	6,0	50
515.0057	11,0	28,0	18,0	25,0	6,0	50
515.0058	12,0	28,0	19,0	25,0	6,0	50
515.0059	13,0	28,0	20,0	25,0	6,0	51
515.0061	14,0	28,0	22,0	25,0	6,0	52
515.0062	15,0	28,0	23,0	25,0	6,0	55
515.0063	16,0	28,0	25,0	25,0	6,0	60
515.0064	17,0	28,0	26,0	26,0	6,0	65
515.0066	18,0	28,0	28,0	28,0	6,0	81
515.0067	19,0	28,0	28,0	28,0	11,0	74
515.0068	20,0	28,0	30,0	30,0	11,0	89
515.0069	21,0	28,0	30,0	30,0	11,0	85
515.0071	22,0	28,0	32,0	30,0	11,0	93
515.0072	23,0	28,0	34,0	30,0	11,0	100
515.0073	24,0	28,0	34,0	30,0	10,0	100

Hexagon impact socket set, extra short

- 6 point
- Very flat design
- According to DIN 3129 / ISO 2725-2
- Internal square drive to DIN 3121 / ISO 1174
- Short execution
- For machinery usage
- Phosphate finish
- Chrome molybdenum
- Includes storage rail

1/2”

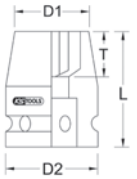
			kg
515.0055	15 pcs	Hexagon impact socket set, extra short	1,20

consists of:

		g
515.0056	1/2” Sechskant-Kraft-Stecknuss, extra kurz, 10,0 mm	50
515.0057	1/2” Sechskant-Kraft-Stecknuss, extra kurz, 11,0 mm	50
515.0058	1/2” Sechskant-Kraft-Stecknuss, extra kurz, 12,0 mm	50
515.0059	1/2” Sechskant-Kraft-Stecknuss, extra kurz, 13,0 mm	51
515.0061	1/2” Sechskant-Kraft-Stecknuss, extra kurz, 14,0 mm	52
515.0062	1/2” Sechskant-Kraft-Stecknuss, extra kurz, 15,0 mm	55
515.0063	1/2” Sechskant-Kraft-Stecknuss, extra kurz, 16,0 mm	60
515.0064	1/2” Sechskant-Kraft-Stecknuss, extra kurz, 17,0 mm	65
515.0066	1/2” Sechskant-Kraft-Stecknuss, extra kurz, 18,0 mm	81
515.0067	1/2” Sechskant-Kraft-Stecknuss, extra kurz, 19,0 mm	74
515.0068	1/2” Sechskant-Kraft-Stecknuss, extra kurz, 20,0 mm	89
515.0069	1/2” Sechskant-Kraft-Stecknuss, extra kurz, 21,0 mm	85
515.0071	1/2” Sechskant-Kraft-Stecknuss, extra kurz, 22,0 mm	93
515.0072	1/2” Sechskant-Kraft-Stecknuss, extra kurz, 23,0 mm	100
515.0073	1/2” Sechskant-Kraft-Stecknuss, extra kurz, 24,0 mm	100

Hexagon impact socket

- 6 point
- According to DIN 3129 / ISO 2725-2
- Internal square drive to DIN 3121 / ISO 1174
- Short execution
- For machinery usage
- Phosphate finish
- Chrome molybdenum



1/2”

	mm		L mm	D1 mm	D2 mm	T mm	g
515.1008	8,0		38,0	15,0	24,0	8,0	57
515.1009	9,0		38,0	16,0	24,0	8,0	60
515.1010	10,0		38,0	17,0	24,0	10,0	60
515.1011	11,0		38,0	18,0	24,0	10,0	62
515.1012	12,0		38,0	20,0	24,0	10,0	64
515.1013	13,0		38,0	21,0	24,0	10,0	67
515.1014	14,0		38,0	22,0	24,0	11,0	69
515.1015	15,0		38,0	23,0	24,0	11,0	74
515.1016	16,0		38,0	25,0	24,0	11,0	72
515.1017	17,0		38,0	26,0	26,0	12,0	89
515.1018	18,0		38,0	27,0	28,0	13,0	111
515.1019	19,0		38,0	28,0	28,0	13,0	100
515.1020	20,0		38,0	30,0	30,0	13,0	121
515.1021	21,0		38,0	30,0	30,0	14,0	125

	mm		L mm	D1 mm	D2 mm	T mm	g
515.1022	22,0		38,0	32,0	30,0	14,0	130
515.1023	23,0		38,0	34,0	30,0	15,0	140
515.1024	24,0		38,0	34,0	30,0	15,0	138
515.1025	25,0		40,0	36,0	30,0	16,0	157
515.1026	26,0		40,0	38,0	30,0	16,0	158
515.1027	27,0		42,0	38,0	30,0	18,0	158
515.1028	28,0		42,0	40,0	30,0	18,0	189
515.1029	29,0		42,0	40,0	30,0	19,0	176
515.1030	30,0		42,0	42,0	30,0	19,0	202
515.1031	31,0		42,0	42,0	30,0	20,0	223
515.1032	32,0		44,0	44,0	30,0	20,0	226
515.0040		3/8"	38,0	17,0	24,0	9,0	70
515.0041		7/16"	38,0	18,0	24,0	9,0	70
515.0042		1/2"	38,0	21,0	24,0	13,0	75
515.0043		9/16"	38,0	22,0	24,0	13,0	80
515.0044		5/8"	38,0	25,0	24,0	14,0	115
515.0045		11/16"	38,0	26,0	26,0	16,0	120
515.0046		3/4"	38,0	28,0	28,0	16,0	120
515.0047		13/16"	38,0	30,0	30,0	17,0	120
515.0048		7/8"	38,0	32,0	30,0	18,0	130
515.0049		15/16"	38,0	34,0	30,0	19,0	135
515.0050		1"	40,0	36,0	30,0	19,0	140
515.0051		1.1/16"	42,0	38,0	30,0	20,0	180
515.0052		1.1/8"	42,0	40,0	30,0	20,0	200
515.0053		1.1/4"	42,0	44,0	30,0	21,0	220
515.0054		1.5/16"	44,0	44,0	30,0	22,0	230

Hexagon impact socket set

- 6 point
- According to DIN 3129 / ISO 2725-2
- Internal square drive to DIN 3121 / ISO 1174
- Short execution
- For machinery usage
- Phosphate finish
- Chrome molybdenum
- In durable plastic storage case

1/2"

			kg
515.0112	12 pcs	Hexagon impact socket set	2,40
10 x		10 - 11 - 13 - 14 - 17 - 19 - 21 - 22 23 - 24 mm	
1 x		1/2"	
1 x		125 mm	

Hexagon impact socket, deep

- 6 point
- Internal square drive to DIN 3121 / ISO 1174
- Long execution
- For machinery usage
- Phosphate finish
- Chrome molybdenum

1/2"

	mm	L mm	D1 mm	D2 mm	T mm	g
515.1108	8,0	78,0	15,0	24,0	12,0	160
515.1109	9,0	78,0	16,0	24,0	12,0	160
515.1110	10,0	78,0	17,0	24,0	12,0	160
515.1111	11,0	78,0	18,0	24,0	13,0	160
515.1112	12,0	78,0	20,0	24,0	14,0	160
515.1113	13,0	78,0	21,0	24,0	14,0	180
515.1114	14,0	78,0	22,0	24,0	14,0	180
515.1115	15,0	78,0	23,0	24,0	15,0	210
515.1116	16,0	78,0	25,0	24,0	16,0	210
515.1117	17,0	78,0	26,0	26,0	17,0	220
515.1118	18,0	78,0	27,0	28,0	18,0	220
515.1119	19,0	78,0	28,0	28,0	20,0	220
515.1120	20,0	78,0	30,0	30,0	20,0	220
515.1121	21,0	78,0	30,0	30,0	22,0	220
515.1122	22,0	78,0	32,0	30,0	22,0	230
515.1123	23,0	78,0	34,0	30,0	24,0	230
515.1124	24,0	78,0	34,0	30,0	24,0	310
515.1125	25,0	78,0	36,0	30,0	24,0	340
515.1126	26,0	78,0	38,0	30,0	27,0	340
515.1127	27,0	78,0	38,0	30,0	27,0	410
515.1128	28,0	78,0	40,0	30,0	27,0	410
515.1129	29,0	78,0	40,0	30,0	27,0	410
515.1130	30,0	78,0	42,0	30,0	30,0	410
515.1131	31,0	78,0	42,0	30,0	31,0	410
515.1132	32,0	78,0	44,0	30,0	32,0	430
515.1139	33,0	78,0	30,0	46,0	32,0	440
515.1147	34,0	78,0	30,0	46,0	32,0	480
515.1148	35,0	78,0	30,0	48,0	36,0	520
515.1149	36,0	78,0	30,0	49,0	36,0	500
515.1151	38,0	78,0	30,0	52,0	36,0	600

Hexagon impact socket set, deep

- 6 point
- According to DIN 3129 / ISO 2725-2
- Internal square drive to DIN 3121 / ISO 1174
- Long execution
- For machinery usage
- Phosphate finish
- Chrome molybdenum
- On a magnetic storage rail

1/2"

			kg
515.0612	13 pcs	Hexagon impact socket set, deep	2,69
10 x		12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 21 - 22 mm	
1 x		1/2"	
1 x		125 mm	

12 point impact socket

- 12 point
- Internal square drive to DIN 3121 / ISO 1174
- Short execution
- For machinery usage
- Phosphate finish
- Chrome molybdenum

1/2"

	mm		L mm	D1 mm	D2 mm	T mm	g
515.0987	8,0		38,0	14,6	25,0	12,0	160
515.0988	9,0		38,0	15,8	25,0	12,0	160
515.0910	10,0		38,0	17,0	24,0	6,0	100
515.0911	11,0		38,0	18,0	24,0	7,0	100
515.0912	12,0		38,0	20,0	24,0	7,0	100
515.0913	13,0		38,0	21,0	24,0	8,0	100
515.0914	14,0		38,0	22,0	24,0	8,0	100
515.0915	15,0		38,0	23,0	24,0	9,0	140
515.0916	16,0		38,0	25,0	24,0	9,0	140
515.0917	17,0		38,0	26,0	26,0	10,0	140
515.0918	18,0		38,0	27,0	28,0	10,0	140
515.0919	19,0		38,0	28,0	28,0	12,0	140
515.0920	20,0		38,0	30,0	30,0	12,0	140
515.0921	21,0		38,0	30,0	30,0	13,0	150
515.0922	22,0		38,0	32,0	30,0	14,0	150
515.0923	23,0		38,0	34,0	30,0	14,0	160
515.0924	24,0		38,0	34,0	30,0	16,0	160
515.0925	25,0		42,0	35,8	30,0	24,0	340
515.0926	26,0		42,0	37,0	30,0	27,0	340
515.0927	27,0		42,0	38,3	30,0	27,0	410
515.0928	28,0		42,0	39,5	30,0	27,0	410
515.0929	29,0		42,0	40,8	30,0	27,0	410
515.0930	30,0		42,0	42,1	30,0	30,0	410
515.0931	31,0		44,0	43,3	30,0	30,0	410
515.0933	32,0		44,0	44,6	30,0	32,0	430
515.0901		3/8"	38,0	17,0	25,0	6,0	70
515.0902		7/16"	38,0	18,5	25,0	8,0	70
515.0903		1/2"	38,0	20,5	25,0	8,0	75
515.0904		9/16"	38,0	23,0	25,0	8,0	80
515.0905		5/8"	38,0	24,5	30,0	9,0	115
515.0906		11/16"	38,0	27,0	30,0	9,0	120
515.0907		3/4"	38,0	28,0	30,0	10,0	120
515.0908		13/16"	38,0	30,0	30,0	12,0	120
515.0909		7/8"	38,0	31,8	30,0	12,0	130
515.0934		15/16"	38,0	33,8	30,0	14,0	135
515.0935		1"	40,0	35,8	30,0	14,0	140
515.0936		1.1/16"	43,0	37,8	30,0	14,0	180
515.0937		1.1/8"	43,0	39,8	30,0	16,0	200
515.0938		1.1/4"	43,0	43,8	30,0	18,0	220
515.0939		1.5/16"	46,0	44,8	30,0	18,0	230

12 Point impact socket set

- 12 point
- Internal square drive to DIN 3121 / ISO 1174
- Short execution
- For machinery usage
- Phosphate finish
- Chrome molybdenum
- In durable plastic storage case

1/2"

			kg
515.0900	13 pcs	10 - 12 - 13 - 14 - 15 - 16 - 17 - 19 - 20 - 21 - 22 - 23 - 24 mm	2,80

12 point impact socket, deep

- 12 point
- Internal square drive to DIN 3121 / ISO 1174
- Long execution
- For machinery usage
- Phosphate finish
- Chrome molybdenum

1/2"

	mm	L mm	D1 mm	D2 mm	T mm	g
515.0940	8,0	78,0	14,0	25,0	12,0	160
515.0941	9,0	78,0	15,8	25,0	12,0	160

	○ mm	L mm	D1 mm	D2 mm	T mm	g
515.0942	10,0	78,0	17,0	25,0	12,0	155
515.0943	11,0	78,0	18,4	25,0	13,0	160
515.0944	12,0	78,0	16,6	25,0	14,0	160
515.0945	13,0	78,0	18,4	25,0	12,0	160
515.0946	14,0	78,0	20,8	25,0	12,0	185
515.0947	15,0	78,0	23,3	30,0	15,0	210
515.0948	16,0	78,0	24,6	25,0	13,0	210
515.0949	17,0	78,0	25,8	30,0	17,0	230
515.0951	18,0	78,0	27,1	30,0	18,0	240
515.0952	19,0	78,0	28,3	30,0	20,0	250
515.0953	20,0	78,0	29,5	30,0	20,0	260
515.0954	21,0	78,0	30,8	30,0	22,0	275
515.0955	22,0	78,0	32,3	30,0	22,0	300
515.0956	23,0	78,0	33,3	30,0	24,0	230
515.0957	24,0	78,0	34,6	30,0	24,0	370
515.0971	25,0	78,0	35,8	30,0	24,0	340
515.0972	26,0	78,0	37,0	30,0	27,0	340
515.0973	27,0	78,0	38,3	30,0	27,0	430
515.0974	28,0	78,0	39,5	30,0	27,0	410
515.0975	29,0	78,0	40,8	30,0	27,0	410
515.0976	30,0	85,0	42,1	30,0	27,0	510
515.0977	31,0	85,0	43,3	30,0	31,0	410
515.0978	32,0	85,0	44,6	30,0	32,0	560

12 Point impact socket set, deep

- 12 point
- According to DIN 3129 / ISO 2725-2
- Internal square drive to DIN 3121 / ISO 1174
- Long execution
- For machinery usage
- Phosphate finish
- Chrome molybdenum
- On a magnetic storage rail

1/2"

			kg
515.1140	13 pcs	12 Point impact socket set, deep	2,70
10 x		12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 21 - 22 mm	
1 x		1/2“	
1 x		125 mm	

Special drive shaft impact socket, long

- 12 point
- Internal square to DIN 3120 / ISO 1174 with ball reception
- For use in a 1/2” impact wrench
- For machinery usage
- Phosphate finish
- Chrome molybdenum

Application range: Drive shafts, flange shafts, fuel injectors, **Mercedes** Truck Transmissions G2/24/26, **Mercedes** Actros etc.

1/2"

	⬢ mm	Ø mm	Length mm	g
150.1705	30,0	42	85,0	450
150.1706	32,0	44	85,0	490
150.1704	34,0	46	85,0	430
150.1707	36,0	50	85,0	520

Torx E impact socket, short

- Torx E
- Internal square drive to DIN 3121 / ISO 1174
- Short execution
- For machinery usage
- Phosphate finish
- Chrome molybdenum

1/2"

		L mm	D1 mm	D2 mm	T mm	g
911.0975	E8	38,0	11,5	25,0	10,0	80
911.0958	E10	38,0	13,5	25,0	8,0	80
911.0976	E11	38,0	14,5	25,0	10,0	80
911.0959	E12	38,0	15,5	25,0	10,0	80
911.0961	E14	38,0	17,5	25,0	10,0	85
911.0962	E16	38,0	19,6	25,0	10,0	85
911.0963	E18	38,0	21,7	30,0	11,0	85
911.0964	E20	38,0	23,8	30,0	11,0	85
515.0979	E22	38,0	26,0	25,0	11,0	70
911.0969	E24	38,0	28,3	30,0	11,0	90

Impact socket set, short

- Torx E
- Internal square drive to DIN 3121 / ISO 1174
- For machinery usage
- Phosphate finish
- Chrome molybdenum
- Includes storage rail

1/2"

			kg
515.1106	7 pcs	E10 - E12 - E14 - E16 - E18 - E20 - E24	1,45

Torx E impact socket, deep

- Torx E
- Internal square drive to DIN 3121 / ISO 1174
- Long execution
- For machinery usage
- Phosphate finish
- Chrome molybdenum

1/2"

		L mm	D1 mm	D2 mm	T mm	g
515.1051	E10	75,0	13,0	22,0	8,0	150
515.1052	E11	75,0	14,0	22,0	21,0	150
515.1053	E12	75,0	16,0	22,0	21,0	150
515.1054	E14	75,0	16,0	22,0	18,0	170
515.1055	E16	75,0	19,0	22,0	20,0	180
515.1056	E18	75,0	20,0	22,0	19,0	200
515.1057	E20	75,0	24,0	22,0	20,0	240
515.1058	E22	75,0	26,0	24,0	34,0	280
515.1059	E24	75,0	28,0	26,0	21,0	320

Impact socket set

- Internal square drive to DIN 3121 / ISO 1174
- Long execution
- For machinery usage
- Phosphate finish
- Chrome molybdenum
- In durable plastic storage case

1/2"

			kg
515.1050	9 pcs	E10 - E11 - E12 - E14 - E16 - E18 - E20 - E22 - E24	1,97

Spiral profile impact socket

- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Rejuvenating special profile with aggressive spiral nut
- For turning off of screws with rounded or turned heads
- Bites firmly to give a firm connection between stuck nut and head
- Phosphate finish
- Chrome molybdenum

1/2"

	⬢ mm	D mm	L mm	g
913.1469	12,0	22,0	34,0	40
913.1468	13,0	22,0	34,0	50
913.1467	14,0	25,0	34,0	70
913.1466	15,0	25,0	34,0	70
913.1465	17,0	25,0	34,0	70
913.1464	19,0	27,0	34,0	90
913.1249	19,0	27,0	50,0	90
913.1250	20,0	27,0	50,0	110
913.1463	21,0	27,0	34,0	90
913.1252	22,0	27,0	50,0	120
913.1253	23,0	27,0	50,0	130
913.1462	24,0	27,0	34,0	110
913.1255	25,0	27,0	50,0	150
913.1461	27,0	27,0	34,0	110

Spiral profile impact socket set, extra deep

- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Rejuvenating special profile with aggressive spiral nut
- For turning off of screws with rounded or turned heads
- Bites firmly to give a firm connection between stuck nut and head
- Drive out pin
- Phosphate finish
- Chrome molybdenum
- In durable plastic storage case

1/2"

			g
913.1240	6 pcs	Spiral profile impact socket set, extra deep	690

consists of:

		g
913.1249	1/2" Spiral-Profile-Socket, 19 mm	90
913.1250	1/2" Spiral-Profile-Socket, 20 mm	110
913.1252	1/2" Spiral-Profile-Socket, 22 mm	120
913.1253	1/2" Spiral-Profile-Socket, 23 mm	130
913.1255	1/2" Spiral-Profile-Socket, 25 mm	150

Spiral profile impact socket set

- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Rejuvenating special profile with aggressive spiral nut
- For turning off of screws with rounded or turned heads
- Bites firmly to give a firm connection between stuck nut and head
- Drive out pin
- Phosphate finish
- Chrome molybdenum
- In durable plastic storage case

1/4" 1/2"

			kg
913.1460	15 pcs	Spiral profile impact socket set	1,10

8 x		1/2": 13 - 14 - 15 - 17 - 19 - 21 - 24 - 27 mm
5 x		1/4": 6 - 8 - 10 - 11 - 12 mm
2 x		1/4"

1/2" WHEEL ASSEMBLY SOCKETS

Spiral profile impact socket set

- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Rejuvenating special profile with aggressive spiral nut
- For turning off of screws with rounded or turned heads
- Bites firmly to give a firm connection between stuck nut and head
- Phosphate finish
- Chrome molybdenum

1/2"

			g
913.1270	3 pcs	Spiral profile impact socket set	600

consists of:

		g
913.1271	1/2" Spiral profile impact socket 17 mm	140
913.1272	1/2" Spiral profile impact socket 19 mm	200
913.1273	1/2" Spiral profile impact socket 21 mm	210

Spiral profile impact socket set

- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Rejuvenating special profile with aggressive spiral nut
- For turning off of screws with rounded or turned heads
- Bites firmly to give a firm connection between stuck nut and head
- Phosphate finish
- Chrome molybdenum

1/2"

			g
913.1280	3 pcs	Spiral profile impact socket set	600

consists of:

		g
913.1281	1/2" Spiral profile impact socket 17 mm	130
913.1282	1/2" Spiral profile impact socket 19 mm	170
913.1283	1/2" Socket Extension, 75 mm	160

Spiral profile impact socket set, extra deep

- Self-fastening and rejuvenating special profile with aggressive spiral nut
- For loosening badly damaged screws and nuts
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Positive connection
- Includes impact bar to extract or remove the damaged bolt or nut
- Extra long execution
- For machinery usage
- Phosphate finish
- Chrome molybdenum
- In durable plastic storage case

1/2"

			kg
913.1290	4 pcs	Spiral profile impact socket set, extra deep	1,50

consists of:

		g
913.1291	1/2" Spiral profile impact socket 17 mm	300
913.1292	1/2" Spiral profile impact socket 19 mm	320
913.1293	1/2" Spiral profile impact socket 21 mm	340
913.1295	Impact bar	540

Hexagon impact socket set, deep

- 6 point
- According to DIN 3129 / ISO 2725-2
- Internal square drive to DIN 3121 / ISO 1174
- Long execution
- For machinery usage
- Phosphate finish
- Chrome molybdenum
- Includes storage rail

1/2"

			kg
515.0103	3 pcs	17 - 19 - 21 mm	0,86

Aluminium wheel impact socket, deep

- Specially for the wheel assembly and/or dismantling
- 6 point
- Internal square drive to DIN 3121 / ISO 1174
- Long execution
- For machinery usage
- Plastic sleeves for the damage-free work on aluminium rims
- Plastic sleeves interchangeable
- Colour coded identifies the socket size
- Chrome vanadium


1/2"

	Colour code	mm	L mm	D1 mm	D2 mm	T mm	Replacement sleeves	g	
515.2015		15,0	85,0	21,0	25,0	23,0	515.2035	180	
515.2017		17,0	85,0	24,0	30,0	23,0	515.2030	231	
515.2019		19,0	85,0	26,0	30,0	23,0	515.2031	235	
515.2021		21,0	85,0	28,0	30,0	23,0	515.2032	258	
515.2022		22,0	85,0	30,0	32,0	23,0	515.2033	320	

Aluminium wheel impact socket set, deep

- Specially for the wheel assembly and/or dismantling
- 6 point
- Square drive as per DIN 3121/ISO 1174 with backstop groove
- For machinery usage
- Plastic sleeves for the damage-free work on aluminium rims
- Plastic sleeves interchangeable
- Colour coded identifies the socket size
- Chrome vanadium
- In durable plastic storage case

1/2"

			kg	
515.1005	3 pcs	17 - 19 - 21 mm	0,86	
515.1006	4 pcs	17 - 19 - 21 - 22 mm	1,45	
515.1007	5 pcs	15 - 17 - 19 - 21 - 22 mm	1,40	

Aluminium wheel impact socket, extra deep

- Specially for the wheel assembly and/or dismantling
- 6 point
- Internal square drive to DIN 3121 / ISO 1174
- Extra long execution
- For machinery usage
- Plastic sleeves for the damage-free work on aluminium rims
- Plastic sleeves interchangeable
- Colour coded identifies the socket size
- Chrome vanadium


1/2"

	Colour code	mm	L mm	D1 mm	D2 mm	T mm	Replacement sleeves	g	
515.2040		17,0	150,0	28,0	30,0	31,0	515.2045	600	
515.2041		19,0	150,0	29,5	30,0	31,0	515.2046	650	
515.2042		21,0	150,0	31,0	30,0	31,0	515.2047	700	

Aluminium wheel impact socket set, extra deep

- Specially for the wheel assembly and/or dismantling
- 6 point
- Internal square drive to DIN 3121 / ISO 1174
- Extra long execution
- For machinery usage
- Plastic sleeves for the damage-free work on aluminium rims
- Plastic sleeves interchangeable
- Colour coded identifies the socket size
- Chrome vanadium
- In durable plastic storage case

1/2"

			kg	
515.1040	6 pcs	Aluminium wheel impact socket set, extra deep	1,45	
3 x		17 mm - 19 mm - 21 mm		
3 x		17 mm - 19 mm - 21 mm		

Special aluminium wheel impact socket, extra deep

- Specially for the wheel assembly and/or dismantling on aluminium sports wheels with deep lying wheel screws
- 6 point
- Internal square drive to DIN 3121 / ISO 1174
- Extra long and thin walled execution
- For machinery usage
- Plastic sleeves for the damage-free work on aluminium rims
- Plastic sleeves interchangeable
- Phosphate finish
- Chrome molybdenum


1/2"

	mm	L mm	D1 mm	D2 mm	T mm	Replacement sleeves	g	
515.2043	17,0	130,0	28,0	30,0	19,0	515.2044	350	

special aluminium rims special profile power socket for Mercedes, long

- Especially for wheel mounting or disassembly of Mercedes special profile wheel bolts
- Square drive as per DIN 3121/ISO 1174 with backstop groove
- Long execution
- Plastic sleeves for the damage-free work on aluminium rims
- Plastic sleeves interchangeable
- Phosphate finish
- Chrome molybdenum

Application range: Mercedes C-class (W204), CL-class (W216), GLK (W204), E-class (W211, W212, W207), M-class (W166), S-class (W221, W222), SLK (W172), **Maybach**


1/2"

	mm	L mm	D1 mm	D2 mm	T mm	Replacement sleeves	g	
515.2055	MS17	88,0	26,0	26,0	18,0	515.2056	257	

special aluminium rims special profile power socket for Hyundai / Kia, long

- Especially for wheel mounting or disassembly of Hyundai special profile wheel bolts
- Square drive as per DIN 3121/ISO 1174 with backstop groove
- Long execution
- Plastic sleeves for the damage-free work on aluminium rims
- Plastic sleeves interchangeable
- Phosphate finish
- Chrome molybdenum

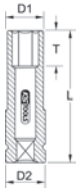
Application range: Hyundai / Kia


1/2"

		L mm	D1 mm	D2 mm	T mm	Replacement sleeves	g	
515.2060	MS21	86,0	31,0	31,0	16,0	515.2061	280	

Aluminium wheel impact socket, deep

- Sturdy design
- Specially for the wheel assembly and/or dismantling
- 6 point
- Internal square drive to DIN 3121 / ISO 1174
- Long execution
- For machinery usage
- Plastic sleeves for the damage-free work on aluminium rims
- Plastic sleeve it protects the surfaces at the wheel screws/ nuts
- Plastic sleeves interchangeable
- Colour coded identifies the socket size
- Phosphate finish
- Chrome molybdenum

1/2"

	Colour code	mm	L mm	D1 mm	D2 mm	T mm	Replacement sleeves	g	
515.1072		15,0	85,0	24,4	25,0	23,0	515.2053	150	
515.1073		17,0	85,0	26,5	30,0	23,0	515.2050	220	
515.1075		19,0	85,0	28,5	30,0	23,0	515.2051	235	
515.1076		21,0	85,0	30,5	30,0	23,0	515.2052	257	
515.1077		22,0	85,0	31,6	32,0	23,0	515.2054	262	

Aluminium wheel impact socket set, deep

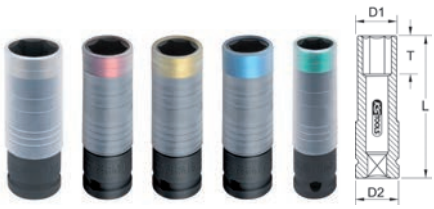
- Sturdy design
- Specially for the wheel assembly and/or dismantling
- 6 point
- Internal square drive to DIN 3121 / ISO 1174
- Long execution
- For machinery usage
- Plastic sleeves for the damage-free work on aluminium rims
- Plastic sleeve it protects the surfaces at the wheel screws/ nuts
- Plastic sleeves interchangeable
- Colour coded identifies the socket size
- Phosphate finish
- Chrome molybdenum
- In durable plastic storage case

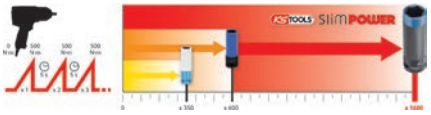
1/2"

			kg
515.1070	3 pcs	17 - 19 - 21 mm	0,78

SlimPOWER Alloy rim impact socket, deep

- Very robust execution
- Specially for the wheel assembly and/or dismantling
- 6 point
- Internal square drive to DIN 3121 / ISO 1174
- Long execution
- For machinery usage
- Plastic sleeves for the damage-free work on aluminium rims
- Plastic sleeve it protects the surfaces at the wheel screws/ nuts
- Plastic sleeves interchangeable
- Colour coded identifies the socket size
- Phosphate finish
- Chrome molybdenum





1/2"

	Colour code	mm	L mm	D1 mm	D2 mm	T mm	g
515.0991		15,0	86,0	24,5	23,5	20,0	155
515.0992		17,0	86,0	26,0	26,0	20,0	220
515.0993		19,0	86,0	28,0	28,0	20,0	207
515.0994		21,0	86,0	30,0	30,0	20,0	251
515.0995		22,0	86,0	32,0	30,0	20,0	266

SlimPOWER Alloy rim impact socket set

- Very robust execution
- Specially for the wheel assembly and/or dismantling
- 6 point
- Internal square drive to DIN 3121 / ISO 1174
- Long execution
- For machinery usage
- Plastic sleeves for the damage-free work on aluminium rims
- Plastic sleeve it protects the surfaces at the wheel screws/ nuts
- Plastic sleeves interchangeable
- Colour coded identifies the socket size
- Phosphate finish
- Chrome molybdenum

1/2"

			g
515.0989	2 pcs	17 - 19 mm	404

SlimPOWER Alloy rim impact socket set

- Very robust execution
- Specially for the wheel assembly and/or dismantling
- 6 point
- Internal square drive to DIN 3121 / ISO 1174
- Long execution
- For machinery usage
- Plastic sleeves for the damage-free work on aluminium rims
- Plastic sleeve it protects the surfaces at the wheel screws/ nuts
- Plastic sleeves interchangeable
- Colour coded identifies the socket size
- Phosphate finish
- Chrome molybdenum
- In durable plastic storage case

1/2"

			g
515.0990	3 pcs	17 - 19 - 21 mm	791

SlimPOWER Alloy rim impact socket, extra deep

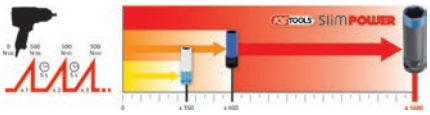
- Very robust execution
- Specially for the wheel assembly and/or dismantling
- 6 point
- Internal square drive to DIN 3121 / ISO 1174
- Extra long execution
- For machinery usage
- Plastic sleeves for the damage-free work on aluminium rims
- Plastic sleeve it protects the surfaces at the wheel screws/ nuts
- Plastic sleeves interchangeable
- Colour coded identifies the socket size
- Phosphate finish
- Chrome molybdenum

1/2"

	Colour code	mm	L mm	D1 mm	D2 mm	T mm	g
515.0617		17,0	150,0	26,5	29,0	20,0	385
515.0618		19,0	150,0	28,5	29,5	20,0	405
515.0619		21,0	150,0	30,0	29,5	20,0	425

SlimPOWER Alloy rim impact socket set, extra deep

- Very robust execution
- Specially for the wheel assembly and/or dismantling
- 6 point
- Internal square drive to DIN 3121 / ISO 1174
- Long execution
- For machinery usage
- Plastic sleeves for the damage-free work on aluminium rims
- Plastic sleeve it protects the surfaces at the wheel screws/ nuts
- Plastic sleeves interchangeable
- Colour coded identifies the socket size
- Phosphate finish
- Chrome molybdenum
- In durable plastic storage case



1/2"

			g
515.0621	2 pcs	17 - 19 mm	800
515.0622	3 pcs	17 - 19 - 21 mm	1300

Magnet set for SlimPOWER alloy rims Kraft sockets

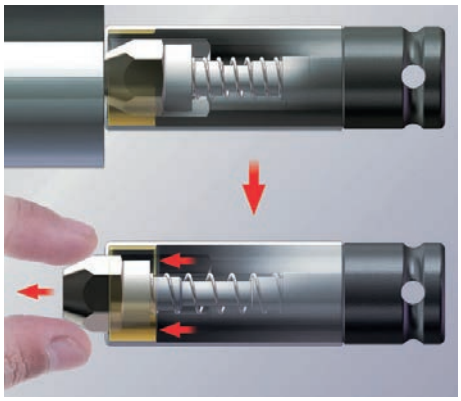
- Ideal supplement for the secure holding of wheel bolts and wheel nuts
- Only suitable for all SlimPOWER alloy rims Kraft sockets
- Spring-mounted magnet
- High retention force

1/2"

			g
515.0625	3 pcs	Magnet set for SlimPOWER alloy rims Kraft sockets	30

consists of:

		g
515.0623	Solenoid holder for 17 mm SlimPOWER alloy wheels impact socket	10
515.0624	Solenoid holder for 19 mm SlimPOWER alloy wheels impact socket	10
515.0626	Solenoid holder for 21 and 22 mm Slim-POWER alloy wheels impact socket	10



Rim lock release tool for Toyota/Lexus/Hyundai

- For the quick and easy removal of wheel rim locks
- Left-turning clamping device
- Shaped in the key core then wedged in and then releasing on the thread and push it in so doing
- For manual operation
- Chrome molybdenum

Application range: Toyota, Lexus, Hyundai

		g
913.1479	Rim lock release tool for Toyota/Lexus/ Hyundai	260

1/2" POWER BIT SOCKETS

Impact bit socket, hexagon

- Hexagon socket
- Internal square drive to DIN 3121 / ISO 1174
- Short execution
- For machinery usage
- Phosphate finish
- Chrome molybdenum

1/2"

	mm		L mm	D mm	g
911.0903	5,0		38,0	25,0	70
911.0904	6,0		38,0	25,0	72
911.0983	7,0		38,0	25,0	70
911.0905	8,0		38,0	25,0	77
911.0906	10,0		38,0	25,0	80
911.0907	12,0		38,0	25,0	135
911.0908	14,0		43,0	25,0	145
911.0909	17,0		43,0	25,0	155
911.0911	19,0		43,0	25,0	155
911.0984		1/8"	38,0	25,0	65
911.0985		5/32"	38,0	25,0	65
911.0986		3/16"	38,0	25,0	67
911.0987		7/32"	38,0	25,0	67
911.0988		1/4"	38,0	25,0	68
911.0989		5/16"	38,0	25,0	70
911.0990		3/8"	38,0	25,0	77
911.0991		7/16"	38,0	25,0	80
911.0992		1/2"	38,0	25,0	80
911.0993		9/16"	43,0	25,0	85
911.0994		5/8"	43,0	25,0	80

Impact bit socket set for hexagon screws, short

- Hexagon socket
- Internal square drive to DIN 3121 / ISO 1174
- Short execution
- For machinery usage
- Phosphate finish
- Chrome molybdenum
- Includes storage rail

1/2"

			kg
515.1102	6 pcs	8 - 10 - 12 - 14 - 17 - 19 mm	1,45
515.1103	4 pcs	5 - 6 - 8 - 10 mm	1,00

Impact bit socket for hexagon screws, long

- Hexagon socket
- Internal square drive to DIN 3121 / ISO 1174
- Long execution
- For machinery usage
- Phosphate finish
- Chrome molybdenum

1/2"

	mm	L mm	D mm	g
911.0925	5,0	75,0	25,0	90
911.0926	6,0	75,0	25,0	92
911.0927	8,0	75,0	25,0	102
911.0928	10,0	75,0	25,0	130
911.0929	12,0	75,0	25,0	136
911.0930	14,0	75,0	25,0	136
911.0931	17,0	75,0	25,0	140
911.0932	19,0	75,0	25,0	210

Impact bit socket set for hexagon screws, long

- Hexagon socket
- Internal square drive to DIN 3121 / ISO 1174
- Long execution
- For machinery usage
- Phosphate finish
- Chrome molybdenum
- Includes storage rail

1/2"

			kg
515.1104	6 pcs	8 - 10 - 12 - 14 - 17 - 19 mm	1,70
515.1105	4 pcs	5 - 6 - 8 - 10 mm	1,35

Impact socket for Torx® screws, short

- Torx
- Internal square drive to DIN 3121 / ISO 1174
- Short execution
- For machinery usage
- Phosphate finish
- Chrome molybdenum

1/2"

		L mm	D mm	g
911.0912	T30	57,0	25,0	75
911.0913	T40	57,0	25,0	77
911.0914	T45	57,0	25,0	80
911.0924	T50	57,0	25,0	82
911.0933	T55	57,0	25,0	84
911.0955	T60	60,0	25,0	90
911.0956	T70	60,0	25,0	93
911.0957	T80	60,0	25,0	95

Impact bit socket set for Torx screws, short

- Torx
- Internal square drive to DIN 3121 / ISO 1174
- Short execution
- For machinery usage
- Phosphate finish
- Chrome molybdenum
- In durable plastic storage case

1/2"

			g
515.1107	8 pcs	T30 - T40 - T45 - T50 - T55 - T60 - T70 - T80	850

Impact socket for Torx® screws, long

- Torx
- Internal square drive to DIN 3121 / ISO 1174
- Long execution
- For machinery usage
- Phosphate finish
- Chrome molybdenum

1/2"

		L mm	D mm	g
911.0995	T20	75,0	25,0	80
911.0996	T25	75,0	25,0	80
911.0915	T30	75,0	25,0	100
911.0916	T40	75,0	25,0	83
911.0917	T45	75,0	25,0	110
911.0918	T50	75,0	25,0	133
911.0919	T55	75,0	25,0	145
911.0920	T60	75,0	25,0	160
911.0921	T70	75,0	25,0	180
911.0922	T80	75,0	25,0	200

Impact bit socket set for Torx screws, long

- Torx
- Internal square drive to DIN 3121 / ISO 1174
- Long execution
- For machinery usage
- Phosphate finish
- Chrome molybdenum
- In durable plastic storage case

1/2"

			kg
911.0901	8 pcs	T30 - T40 - T45 - T50 - T55 - T60 - T70 - T80	1,05

Impact socket for RIBE® screws, long

- For tamperproof RIBE® profile
- Internal square drive to DIN 3121 / ISO 1174
- Long execution
- For machinery usage
- Phosphate finish
- Chrome molybdenum

1/2"

		L mm	D mm	g
911.0935	M5	75,0	25,0	90
911.0936	M6	75,0	25,0	90
911.0937	M7	75,0	25,0	90
911.0938	M8	75,0	25,0	90
911.0939	M9	75,0	25,0	90
911.0940	M10	75,0	25,0	100
911.0941	M12	75,0	25,0	110
911.0942	M13	75,0	25,0	120
911.0943	M14	75,0	25,0	130

Impact bit socket set for RIBE® screws, long

- RIBE®
- Internal square drive to DIN 3121 / ISO 1174
- Long execution
- For machinery usage
- Phosphate finish
- Chrome molybdenum
- In durable plastic storage case

1/2"

			kg
911.0934	9 pcs	M5 - M6 - M7 - M8 - M9 - M10 - M12 - M13 - M14	1,10

Impact bit socket for spline(XZN®) screws, long

- Spline (XZN®)
- Internal square drive to DIN 3121 / ISO 1174
- Long execution
- For machinery usage
- Phosphate finish
- Chrome molybdenum

1/2"

		L mm	D mm	T mm	g
911.0945	M4	75,0	25,0	45,0	90
911.0946	M5	75,0	25,0	45,0	90
911.0947	M6	75,0	25,0	45,0	90
911.0948	M8	75,0	25,0	45,0	90
911.0949	M9	75,0	25,0	45,0	100
911.0950	M10	75,0	25,0	45,0	100
911.0951	M12	75,0	25,0	45,0	110
911.0952	M14	75,0	25,0	45,0	130
911.0953	M16	75,0	25,0	45,0	150

Impact bit socket set for spline(XZN®) screws

- Spline (XZN®)
- Internal square drive to DIN 3121 / ISO 1174
- Long execution
- For machinery usage
- Phosphate finish
- Chrome molybdenum
- In durable plastic storage case

1/2"

			kg
911.0944	9 pcs	M 4 - M 5 - M 6 - M 8 - M 9 - M10 - M12 - M14 - M16	1,14

1/2" POWER EXTENSIONS

Impact extension

- Square drive adaptor to DIN 3121 / ISO 1174 with ball lock
- Internal square drive to DIN 3121 / ISO 1174
- For machinery usage
- Phosphate finish
- Chrome molybdenum

1/2"

	L mm	D mm	g
515.1152	50,0	25,0	105
515.1134	75,0	25,0	220
515.1135	125,0	25,0	425
515.1153	175,0	25,0	370
515.1136	250,0	25,0	440

Torsional torque limiter extension

- Ideal for the time-saving pre-tightening of wheel bolts and nuts with impact wrenches
- Automatic tightening stop prevents damage to rims and bolts
- Combines the speed of impact wrenches with the precision of torque wrenches
- Absorbs excessive torque and limits to the respective torque
- Square drive adaptor to DIN 3121 / ISO 1174 with ball lock
- Internal square drive to DIN 3120 / ISO 1174
- For machinery usage
- Colour coded for better overview
- Chrome molybdenum

1/2"

	Colour code	max N·m	Ø mm	Length mm	kg
515.1061	●	90	25,0	195,0	270
515.1062	●	100	25,0	195,0	270
515.1063	○	110	25,0	195,0	270
515.1064	●	120	25,0	195,0	270
515.1065	●	135	25,0	195,0	270

Torsional torque limiter extension set

- Ideal for the time-saving pre-tightening of wheel bolts and nuts with impact wrenches
- Automatic tightening stop prevents damage to rims and bolts
- Combines the speed of impact wrenches with the precision of torque wrenches
- Absorbs excessive torque and limits to the respective torque
- Square drive adaptor to DIN 3121 / ISO 1174 with ball lock
- Internal square drive to DIN 3120 / ISO 1174
- For machinery usage
- Colour coded for better overview
- Chrome molybdenum

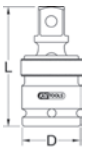
1/2"

			kg
515.1060	5 pcs	90 - 100 - 110 - 120 - 135 Nm	1,37

1/2" POWER BALL JOINTS

Impact universal ball joint

- Square drive adaptor to DIN 3121 / ISO 1174 with ball lock
- Internal square drive to DIN 3121 / ISO 1174
- Suspension
- For machinery usage
- Phosphate finish
- Chrome molybdenum



1/2"

	□	■	L mm	D mm	kg
515.1133	1/2"	1/2"	67,0	28,0	159

1/2" POWER ADAPTERS

Impact adaptor

- Square drive adaptor to DIN 3121 / ISO 1174 with ball lock
- Internal square drive to DIN 3121 / ISO 1174
- For machinery usage
- Phosphate finish
- Chrome molybdenum

1/2"

	□	■	L mm	D mm	kg
515.1143	1/2"	3/8"	38,0	25,0	72
515.1144	1/2"	3/4"	48,0	30,0	165

Impact adaptor and reducing adaptor set

- Ideal set of compilation for adaptors and ball joints
- Chrome molybdenum
- In durable plastic storage case

1/4" 3/8" 1/2" 3/4"

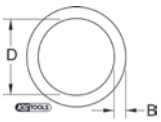
			kg
515.0100	9 pcs	Impact adaptor and reducing adaptor set	1,78

1 x		1/4"F x 3/8"M
1 x		3/8"F x 1/4"M
1 x		3/8"F x 1/2"M
1 x		1/2"F x 3/8"M
1 x		1/2"F x 3/4"M
1 x		3/4"F x 1/2"M
1 x		3/8"
1 x		1/2"
1 x		3/4"

1/2" POWER SECURING ELEMENTS

O-Ring

- For impact drivers and impact sockets
- For safeguard



1/2"

	for sockets mm	D mm	B mm	kg
515.1137	6-16	19,0	4,0	10
515.1138	17-32	24,0	4,0	12

Connection pin

- For impact drivers and impact sockets
- For safeguard

1/2"

	for sockets mm	D mm	L mm	kg
515.1141	6-16	3,0	20,0	10
515.1142	17-32	3,0	26,0	14

3/4" POWER SOCKETS

Hexagon impact socket

- 6 point
- According to DIN 3129 / ISO 2725-2
- Internal square drive to DIN 3121 / ISO 1174
- Short execution
- For machinery usage
- Phosphate finish
- Chrome molybdenum

3/4"

	mm		L mm	D1 mm	D2 mm	T mm	g
515.1317	17,0		50,0	30,0	44,0	7,0	230
515.1318	18,0		50,0	31,0	44,0	7,0	230
515.1319	19,0		50,0	33,0	44,0	9,0	230
515.1320	20,0		50,0	34,0	44,0	11,0	240
515.1321	21,0		50,0	35,0	44,0	11,0	240
515.1322	22,0		50,0	36,0	44,0	14,0	250
515.1323	23,0		50,0	38,0	44,0	14,0	250
515.1324	24,0		50,0	39,0	44,0	14,0	250
515.1325	25,0		50,0	40,0	44,0	14,0	270
515.1326	26,0		50,0	41,0	44,0	14,0	270
515.1327	27,0		53,0	43,0	44,0	14,0	280
515.1328	28,0		53,0	44,0	44,0	15,0	320
515.1329	29,0		53,0	45,0	44,0	15,0	320
515.1330	30,0		53,0	46,0	44,0	15,0	370
515.1331	31,0		53,0	48,0	44,0	15,0	380
515.1332	32,0		56,0	49,0	44,0	15,0	380
515.1333	33,0		56,0	51,0	44,0	18,0	410
515.1334	34,0		56,0	51,0	44,0	18,0	410
515.1335	35,0		56,0	53,0	44,0	18,0	470
515.1336	36,0		56,0	54,0	44,0	18,0	470
515.1337	37,0		57,0	55,0	44,0	18,0	470
515.1338	38,0		57,0	57,0	44,0	18,0	470
515.1341	41,0		57,0	60,0	44,0	22,0	590
515.1346	46,0		62,0	66,0	44,0	24,0	770
515.1350	50,0		72,0	71,0	54,0	30,0	970
515.1355	55,0		74,0	78,0	54,0	30,0	1250
515.1360	60,0		75,0	84,0	54,0	30,0	1600
515.1365	65,0		78,0	88,0	54,0	33,0	1650
515.1370	70,0		83,0	96,0	54,0	35,0	1920
515.1386		13/16"	52,0	32,0	38,0	11,0	240
515.1387		7/8"	52,0	34,0	38,0	11,0	250
515.1388		15/16"	52,0	36,0	38,0	13,0	250
515.1389		1"	52,0	38,0	38,0	13,0	260
515.1390		1.1/16"	52,0	40,0	40,0	16,0	280
515.1391		1.1/8"	52,0	42,0	42,0	16,0	330
515.1392		1.1/4"	52,0	46,0	44,0	16,0	370
515.1393		1.5/16"	56,0	48,0	44,0	18,0	410
515.1394		1.3/8"	56,0	50,0	44,0	18,0	440
515.1395		1.7/16"	56,0	52,0	44,0	18,0	450
515.1396		1.1/2"	56,0	53,0	44,0	18,0	460
515.1397		1.5/8"	62,0	58,0	44,0	23,0	590
515.1398		1.11/16"	62,0	64,0	44,0	23,0	700
515.1399		1.3/4"	62,0	65,0	44,0	23,0	750
515.1401		1.7/8"	68,0	68,0	44,0	27,0	790
515.1402		2"	72,0	71,0	54,0	30,0	880

Hexagon impact socket set

- 6 point
- According to DIN 3129 / ISO 2725-2
- Internal square drive to DIN 3121 / ISO 1174
- Short execution
- For machinery usage
- Phosphate finish
- Chrome molybdenum
- In durable plastic storage case

3/4"

			kg
515.0210	8 pcs	24 - 27 - 29 - 30 - 32 - 34 - 36 - 38 mm	3,54

Hexagon impact socket, deep

- 6 point
- Internal square drive to DIN 3121 / ISO 1174
- Long execution
- For machinery usage
- Phosphate finish
- Chrome molybdenum

3/4"

	mm	L mm	D1 mm	D2 mm	T mm	g
515.1417	17,0	90,0	30,0	44,0	38,0	390
515.1418	18,0	90,0	31,0	44,0	38,0	590
515.1419	19,0	90,0	33,0	44,0	38,0	600
515.1420	20,0	90,0	34,0	44,0	38,0	610
515.1421	21,0	90,0	35,0	44,0	38,0	630
515.1422	22,0	90,0	37,0	44,0	38,0	640
515.1423	23,0	90,0	38,0	44,0	38,0	640
515.1424	24,0	90,0	39,0	44,0	38,0	640
515.1425	25,0	90,0	40,0	44,0	38,0	640
515.1426	26,0	90,0	41,0	44,0	38,0	650
515.1427	27,0	90,0	43,0	44,0	38,0	650
515.1428	28,0	90,0	44,0	44,0	38,0	650
515.1429	29,0	90,0	45,0	44,0	38,0	660
515.1430	30,0	90,0	46,0	44,0	38,0	680
515.1431	31,0	90,0	48,0	44,0	38,0	730
515.1432	32,0	90,0	49,0	44,0	38,0	740
515.1433	33,0	90,0	51,0	44,0	38,0	770
515.1434	34,0	90,0	51,0	44,0	38,0	790
515.1435	35,0	90,0	53,0	44,0	38,0	820
515.1436	36,0	90,0	54,0	44,0	38,0	840
515.1437	37,0	90,0	55,0	44,0	38,0	860
515.1438	38,0	90,0	56,0	44,0	38,0	880
515.1441	41,0	90,0	60,0	44,0	38,0	970
515.1443	43,0	90,0	63,2	44,0	38,0	1150
515.1446	46,0	90,0	66,0	44,0	38,0	1260
515.1450	50,0	90,0	71,0	54,0	38,0	1650

Hexagon impact socket set

- 6 point
- Internal square drive to DIN 3121 / ISO 1174
- Long execution
- For machinery usage
- Phosphate finish
- Chrome molybdenum
- In durable steel storage case

3/4"

			kg
515.0510	8 pcs	24 - 27 - 29 - 30 - 32 - 33 - 34 - 36 mm	4,20

Hexagon impact socket, extra deep

- 6 point
- Internal square drive to DIN 3121 / ISO 1174
- Extra long execution
- For machinery usage
- Phosphate finish
- Chrome molybdenum

3/4"

	mm	L mm	D1 mm	D2 mm	T mm	kg
515.1182	27,0	270,0	42,0	44,0	27,0	1,09
515.1183	30,0	270,0	46,0	44,0	30,0	1,14
515.1184	32,0	270,0	49,0	44,0	32,0	1,16
515.1191	27,0	400,0	42,0	44,0	27,0	1,25
515.1192	30,0	400,0	46,0	44,0	30,0	1,32
515.1193	32,0	400,0	49,0	44,0	32,0	1,36
515.1194	33,0	400,0	50,0	44,0	32,0	1,38

Torx E impact socket, deep

- Torx E
- Internal square drive to DIN 3121 / ISO 1174
- Long execution
- For machinery usage
- Phosphate finish
- Chrome molybdenum

3/4"

		L mm	D mm	g
450.0451	E18	140,0	44,0	672
450.0452	E20	140,0	44,0	692
450.0453	E22	140,0	44,0	700
450.0454	E24	140,0	44,0	748

3/4" POWER BIT SOCKETS

Impact bit socket, hexagon

- Hexagon socket
- Internal square drive to DIN 3121 / ISO 1174
- Short execution
- For machinery usage
- Matt finish
- Chrome molybdenum

3/4"

	mm	L mm	D mm	g	
515.0001	14,0	60,0	40,0	140	
515.0002	17,0	60,0	40,0	280	
515.0003	19,0	60,0	40,0	340	
515.0004	21,0	60,0	40,0	340	
515.0005	22,0	60,0	40,0	340	
515.0006	24,0	60,0	40,0	340	

Impact bit socket set

- Hexagon
- Internal square drive to DIN 3121 / ISO 1174
- Short execution
- For machinery usage
- Matt finish
- Chrome molybdenum
- In durable steel storage case

3/4"

			kg	
515.0000	6 pcs	14 - 17 - 19 - 21 - 22 - 24 mm	2,52	

Impact bit socket for hexagon screws, long

- Hexagon socket
- Internal square drive to DIN 3121 / ISO 1174
- Long execution
- For machinery usage
- Phosphate finish
- Chrome molybdenum

3/4"

	mm	L mm	D mm	g	
450.0461	17,0	140,0	44,0	672	
450.0462	19,0	140,0	44,0	686	
450.0463	22,0	140,0	44,0	710	
450.0464	24,0	140,0	44,0	760	

Impact bit socket for Torx, tamperproof, short

- Torx tamperproof
- Internal square drive to DIN 3121 / ISO 1174
- Short execution
- For machinery usage
- Matt finish
- Chrome molybdenum

3/4"

		L mm	D mm	g	
515.0016	TB70	60,0	40,0	270	
515.0017	TB80	60,0	40,0	270	
515.0018	TB90	60,0	40,0	280	
515.0019	TB100	60,0	40,0	290	

Impact socket for Torx® screws, long

- For Torx screws
- Internal square drive to DIN 3121 / ISO 1174
- Long execution
- For machinery usage
- Phosphate finish
- Chrome molybdenum

3/4"

		L mm	D mm	g	
450.0441	T60	140,0	44,0	630	
450.0442	T70	140,0	44,0	650	
450.0443	T80	140,0	44,0	656	
450.0444	T90	140,0	44,0	666	
450.0445	T100	140,0	44,0	680	

Impact bit socket, tamperproof, for spline(XZN®) screws

- Spline tamperproof
- Internal square drive to DIN 3121 / ISO 1174
- Short execution
- For machinery usage
- Matt finish
- Chrome molybdenum

3/4"

		L mm	D mm	g	
515.0012	M16	60,0	40,0	270	
515.0013	M18	60,0	40,0	270	

Impact bit socket and impact socket set

- For machinery usage
- Phosphate finish
- Chrome molybdenum
- In durable plastic storage case

3/4" 1"

			kg	
450.0420	16 pcs	Impact bit socket and impact socket set	6,00	

consists of:

		g	
450.0422	Impact bit socket hex adaptor, 107mm, 17mm	360	
450.0423	Impact bit socket hex adaptor, 107mm, 19mm	370	
450.0425	Impact bit socket hex adaptor, 107mm, 22mm	380	
450.0426	Impact bit socket hex adaptor, 107mm, 24mm	460	
450.0427	Impact bit socket Torx adaptor, 107mm, T60	330	
450.0428	Impact bit socket Torx adaptor, 107mm, T70	330	
450.0429	Impact bit socket Torx adaptor, 107mm, T80	340	
450.0430	Impact bit socket Torx adaptor, 107mm, T90	350	
450.0431	Impact bit socket Torx adaptor, 107mm, T100	360	
450.0433	Impact bit socket Torx E adaptor, 107mm, E18	470	
450.0434	Impact bit socket Torx E adaptor, 107mm, E20	340	
450.0435	Impact bit socket Torx E adaptor, 107mm, E22	370	
450.0436	Impact bit socket Torx E adaptor, 107mm, E24	390	
450.0437	3/4" impact bit socket adaptor, 22mm	260	
450.0438	1" impact bit socket adaptor, 22mm	500	
151.2104	Ball ended hexagon key wrench, long, 4mm	10	

3/4" POWER EXTENSIONS

Impact extension

- Square drive adaptor to DIN 3121 / ISO 1174 with ball lock
- Internal square drive to DIN 3121 / ISO 1174
- For machinery usage
- Phosphate finish
- Chrome molybdenum

3/4"

	L mm	D mm	g	
515.1375	90,0	44,0	500	
515.1376	100,0	44,0	540	
515.1377	150,0	44,0	750	
515.1378	175,0	44,0	850	
515.1379	200,0	44,0	950	
515.1381	250,0	44,0	1110	

3/4" POWER BALL JOINTS

Impact universal ball joint

- Square drive adaptor to DIN 3121 / ISO 1174
- Internal square drive to DIN 3121 / ISO 1174
- Suspension
- For machinery usage
- Phosphate finish
- Chrome molybdenum

3/4"

	□	■	L mm	D mm	g
515.1374	3/4"	3/4"	108,0	44,0	700

3/4" POWER ADAPTERS

Impact socket adapter

- Square drive adaptor to DIN 3121 / ISO 1174 with ball lock
- Internal square drive to DIN 3121 / ISO 1174
- For machinery usage
- Phosphate finish
- Chrome molybdenum

3/4"

	□	■	L mm	D mm	g
515.1372	3/4"	1/2"	56,0	44,0	325
515.1373	3/4"	1"	63,0	44,0	450

Impact adaptor and reducing adaptor set

- Ideal set of compilation for adaptors and ball joints
- Chrome molybdenum
- In durable plastic storage case

1/4" 3/8" 1/2" 3/4"

			kg
515.0100	9 pcs	Impact adaptor and reducing adaptor set	1,78

1 x		1/4"F x 3/8"M
1 x		3/8"F x 1/4"M
1 x		3/8"F x 1/2"M
1 x		1/2"F x 3/8"M
1 x		1/2"F x 3/4"M
1 x		3/4"F x 1/2"M
1 x		3/8"
1 x		1/2"
1 x		3/4"

3/4" POWER SECURING ELEMENTS

O-Ring

- For impact drivers and impact sockets
- For safeguard

3/4"

	for sockets mm	D mm	B mm	g
515.1382	17 - 49	36,0	5,0	10
515.1383	50 - 70	46,0	5,0	12

Connection pin

- For impact drivers and impact sockets
- For safeguard

3/4"

	for sockets mm	D mm	L mm	g
515.1384	17 - 49	4,0	36,0	10
515.1385	50 - 70	4,0	46,0	14

1" POWER SOCKETS

Hexagon impact socket

- 6 point
- According to DIN 3129 / ISO 2725-2
- Internal square drive to DIN 3121 / ISO 1174
- Short execution
- For machinery usage
- Phosphate finish
- Chrome molybdenum

1"

	mm		L mm	D2 mm	D1 mm	T mm	kg
515.1722	22,0		58,0	51,0	39,0	12,0	0,51
515.1724	24,0		58,0	54,0	42,0	14,0	0,51
515.1727	27,0		58,0	54,0	46,0	14,0	0,52
515.1729	29,0		60,0	54,0	48,0	16,0	0,53
515.1730	30,0		60,0	54,0	49,0	16,0	0,53
515.1731	31,0		60,0	54,0	51,0	16,0	0,56
515.1732	32,0		61,0	54,0	52,0	19,0	0,59
515.1733	33,0		61,0	54,0	54,0	19,0	0,62
515.1734	34,0		61,0	54,0	54,0	19,0	0,64
515.1736	36,0		65,0	54,0	57,0	19,0	0,67
515.1737	37,0		65,0	54,0	58,0	19,0	0,67
515.1738	38,0		65,0	54,0	59,0	20,0	0,68
515.1740	40,0		65,0	54,0	62,0	23,0	0,87
515.1741	41,0		65,0	54,0	63,0	23,0	0,92
515.1742	42,0		65,0	54,0	63,0	23,0	0,98
515.1746	46,0		74,0	54,0	69,0	23,0	1,00
515.1750	50,0		74,0	54,0	74,0	26,0	1,07
515.1755	55,0		85,0	54,0	81,0	28,0	1,44
515.1760	60,0		89,0	54,0	87,0	31,0	1,78
515.1765	65,0		93,0	54,0	93,0	32,0	1,80
515.1770	70,0		98,0	54,0	99,0	35,0	2,04
515.1775	75,0		100,0	86,0	106,0	40,0	3,48
515.1776	76,0		102,0	60,0	105,0	35,0	2,80
515.1777	77,0		102,0	60,0	108,0	35,0	2,90
515.1778	78,0		102,0	60,0	108,0	35,0	3,00
515.1780	80,0		100,0	86,0	112,0	47,0	4,10
515.1785	85,0		102,0	86,0	119,0	47,0	4,80
515.1790	90,0		107,0	86,0	124,0	47,0	5,10
515.1795	95,0		107,0	86,0	131,0	50,0	5,25
515.1800	100,0		115,0	86,0	136,0	35,0	5,40
515.1805	105,0		115,0	86,0	142,0	35,0	6,20
515.1810	110,0		120,0	86,0	148,0	35,0	7,30
515.1815	115,0		120,0	86,0	155,0	35,0	8,00
515.1891		1"	58,0	51,0	42,0	14,0	0,52
515.1892		1.1/4"	60,0	51,0	51,0	16,0	0,61
515.1893		1.7/16"	62,0	52,0	56,0	20,0	0,64
515.1894		1.1/2"	62,0	52,0	58,0	22,0	0,67
515.1895		1.5/8"	62,0	52,0	62,0	22,0	0,92
515.1896		1.13/16"	64,0	58,0	68,0	23,0	1,00
515.1897		1.7/8"	66,0	58,0	70,0	24,0	1,08
515.1898		2.1/4"	75,0	62,0	84,0	30,0	1,52

Hexagon impact socket set

- 6 point
- According to DIN 3129 / ISO 2725-2
- Internal square drive to DIN 3121 / ISO 1174
- Short execution
- For machinery usage
- Phosphate finish
- Chrome molybdenum
- In durable steel storage case

1"

			kg
515.0610	8 pcs	27 - 29 - 30 - 32 - 33 - 34 - 36 - 38 mm	3,00

Hexagon impact socket

- 6 point
- Internal square drive to DIN 3121 / ISO 1174
- Extra thick walled / long centre execution
- For machinery usage
- Phosphate finish
- Chrome molybdenum

1"

	mm	L mm	D1 mm	D2 mm	T mm	g
515.2124	24,0	76,0	38,0	52,0	13,0	570
515.2127	27,0	76,0	42,0	52,0	14,0	580
515.2130	30,0	76,0	45,0	52,0	18,0	620
515.2132	32,0	76,0	48,0	52,0	18,0	640
515.2133	33,0	76,0	49,0	52,0	18,0	650
515.2134	34,0	76,0	50,0	52,0	18,0	670
515.2136	36,0	76,0	54,0	52,0	20,0	690
515.2138	38,0	76,0	56,0	52,0	23,0	710
515.2141	41,0	80,0	59,0	52,0	23,0	720

Hexagon impact socket, deep

- 6 point
- Internal square drive to DIN 3121 / ISO 1174
- Long execution
- For machinery usage
- Phosphate finish
- Chrome molybdenum

1"

	mm	L mm	D1 mm	D2 mm	T mm	kg
515.1822	22,0	90,0	39,0	51,0	16,0	0,71
515.1824	24,0	90,0	42,0	54,0	16,0	0,72
515.1827	27,0	90,0	46,0	54,0	19,0	0,80
515.1802	29,0	90,0	48,0	54,0	19,0	0,60
515.1830	30,0	90,0	49,0	54,0	19,0	0,80
515.1832	32,0	90,0	52,0	54,0	19,0	0,91
515.1833	33,0	90,0	54,0	54,0	23,0	0,91
515.1834	34,0	90,0	54,0	54,0	23,0	0,95
515.1808	35,0	90,0	54,0	54,0	23,0	0,68
515.1836	36,0	90,0	57,0	54,0	23,0	0,95
515.1838	38,0	90,0	59,0	54,0	23,0	0,99
515.1814	39,0	90,0	59,0	54,0	23,0	1,10
515.1841	41,0	90,0	63,0	54,0	40,0	1,20
515.1846	46,0	90,0	69,0	54,0	40,0	1,36
515.1850	50,0	100,0	74,0	54,0	40,0	1,57
515.1855	55,0	100,0	81,0	54,0	52,0	1,95
515.1860	60,0	120,0	87,0	54,0	52,0	2,82
515.1865	65,0	120,0	93,0	54,0	60,0	3,15
515.1870	70,0	125,0	99,0	54,0	60,0	3,34
515.1875	75,0	125,0	105,0	54,0	60,0	4,43
515.1880	80,0	125,0	112,0	54,0	75,0	4,76
515.1885	85,0	135,0	119,0	54,0	75,0	5,80
515.1890	90,0	135,0	124,0	54,0	75,0	6,10
515.1881	95,0	150,0	135,0	127,0	49,0	6,90
515.1882	100,0	150,0	140,0	127,0	54,0	7,20
515.1883	105,0	150,0	150,0	127,0	54,0	8,10
515.1884	110,0	160,0	155,0	127,0	62,0	8,90
515.1886	115,0	160,0	160,0	127,0	67,0	9,40
515.1887	120,0	170,0	165,0	127,0	67,0	10,10

Hexagon impact socket set, deep

- 6 point
- Internal square drive to DIN 3121 / ISO 1174
- Long execution
- For machinery usage
- Phosphate finish
- Chrome molybdenum
- In durable steel storage case

1"

			kg
515.0308	8 pcs	24 - 27 - 30 - 32 - 33 - 34 - 36 - 38 mm	4,20

Hexagon torque impact socket, extra deep

- Ideal for controlled loosening of wheel screws and nuts with impact wrenches
- Internal square drive to DIN 3121 / ISO 1174
- Extra long execution
- For machinery usage
- Phosphate finish
- Chrome molybdenum

1"

	mm	max N·m	L mm	D mm	T mm	kg
515.1461	24,0	350	300,0	54,0	24,0	1,38
515.1462	27,0	350	300,0	54,0	27,0	1,40
515.1463	27,0	450	300,0	54,0	27,0	1,58
515.1464	30,0	500	300,0	54,0	30,0	1,56
515.1465	32,0	450	300,0	54,0	32,0	1,60
515.1466	32,0	550	300,0	54,0	32,0	1,60
515.1467	32,0	600	300,0	54,0	33,0	1,60
515.1468	33,0	550	300,0	54,0	33,0	1,64
515.1469	33,0	600	300,0	54,0	36,0	1,64
515.1489	36,0	600	300,0	54,0	36,0	1,80

Torx E impact socket, deep

- Torx E
- Internal square drive to DIN 3121 / ISO 1174
- Long execution
- For machinery usage
- Phosphate finish
- Chrome molybdenum

1"

		L mm	D mm	g
450.0481	E18	145,0	51,0	992
450.0482	E20	145,0	51,0	1012
450.0483	E22	145,0	51,0	1020
450.0484	E24	145,0	51,0	1068

1" POWER BIT SOCKETS

Impact bit socket, hexagon

- Hexagon socket
- Internal square drive to DIN 3121 / ISO 1174
- Short execution
- For machinery usage
- Phosphate finish
- Chrome molybdenum

1"

	mm	L mm	D mm	g
450.0476	17,0	75,0	54,0	620
450.0477	19,0	75,0	54,0	650
450.0478	22,0	75,0	54,0	675
450.0479	24,0	75,0	54,0	700
450.0485	27,0	75,0	54,0	730
450.0486	30,0	75,0	54,0	770
450.0487	32,0	75,0	54,0	900
450.0488	36,0	75,0	54,0	920

Impact bit socket for hexagon screws, long

- Hexagon socket
- Internal square drive to DIN 3121 / ISO 1174
- Long execution
- For machinery usage
- Phosphate finish
- Chrome molybdenum

1"

	mm	L mm	D mm	kg
450.0491	17,0	145,0	51,0	0,99
450.0492	29,0	145,0	51,0	1,01
450.0493	22,0	145,0	51,0	1,03
450.0494	24,0	145,0	51,0	1,08
450.0495	27,0	145,0	51,0	2,00
450.0496	30,0	145,0	51,0	2,03
450.0497	32,0	145,0	51,0	2,07
450.0498	36,0	145,0	51,0	2,11

Impact socket for Torx® screws, long

- Torx
- Internal square drive to DIN 3121 / ISO 1174
- Long execution
- For machinery usage
- Phosphate finish
- Chrome molybdenum

1"

		L mm	D mm	g
450.0471	T60	145,0	51,0	950
450.0472	T70	145,0	51,0	970
450.0473	T80	145,0	51,0	976
450.0474	T90	145,0	51,0	986
450.0475	T100	145,0	51,0	1000

Impact bit socket and impact socket set

- For machinery usage
- Phosphate finish
- Chrome molybdenum
- In durable plastic storage case

3/4" 1"

			kg
450.0420	16 pcs	Impact bit socket and impact socket set	6,00

consists of:

		g
450.0422	Impact bit socket hex adaptor, 107mm, 17mm	360
450.0423	Impact bit socket hex adaptor, 107mm, 19mm	370
450.0425	Impact bit socket hex adaptor, 107mm, 22mm	380
450.0426	Impact bit socket hex adaptor, 107mm, 24mm	460
450.0427	Impact bit socket Torx adaptor, 107mm, T60	330
450.0428	Impact bit socket Torx adaptor, 107mm, T70	330
450.0429	Impact bit socket Torx adaptor, 107mm, T80	340
450.0430	Impact bit socket Torx adaptor, 107mm, T90	350
450.0431	Impact bit socket Torx adaptor, 107mm, T100	360
450.0433	Impact bit socket Torx E adaptor, 107mm, E18	470
450.0434	Impact bit socket Torx E adaptor, 107mm, E20	340
450.0435	Impact bit socket Torx E adaptor, 107mm, E22	370
450.0436	Impact bit socket Torx E adaptor, 107mm, E24	390
450.0437	3/4" impact bit socket adaptor, 22mm	260
450.0438	1" impact bit socket adaptor, 22mm	500
151.2104	Ball ended hexagon key wrench, long, 4mm	10

1/4" POWER EXTENSIONS

Impact extension

- Square drive adaptor to DIN 3121 / ISO 1174
- Internal square drive to DIN 3121 / ISO 1174
- For machinery usage
- Phosphate finish
- Chrome molybdenum

1"

	L mm	D mm	kg
515.1804	175,0	54,0	1,45
515.1816	208,0	54,0	2,10
515.1806	250,0	54,0	1,58
515.1807	300,0	54,0	1,96
515.1817	405,0	54,0	2,61

1" POWER BALL JOINTS

Impact universal ball joint

- Square drive adaptor to DIN 3121 / ISO 1174
- Internal square drive to DIN 3121 / ISO 1174
- Suspension
- For machinery usage
- Phosphate finish
- Chrome molybdenum

1"

	□	■	L mm	D mm	kg
515.1801	1"	1"	130,0	54,0	1,38

1" POWER ADAPTERS

Impact adaptor

- Square drive adaptor to DIN 3121 / ISO 1174 with ball lock
- Internal square drive to DIN 3121 / ISO 1174
- For machinery usage
- Phosphate finish
- Chrome molybdenum

1"

	□	■	L mm	D mm	kg
515.1798	1"	3/4"	75,0	54,0	0,57
515.1799	1"	1.1/2"	82,0	54,0	1,00

1" POWER SECURING ELEMENTS

O-ring

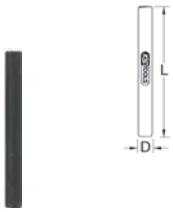
- For impact drivers and impact sockets
- For safeguard

1"

	for sockets mm	D mm	B mm	g
515.1809	22-70	45,0	5,0	10

Connection pin

- For impact drivers and impact sockets
- For safeguard



1"

	for sockets mm	D mm	L mm	g
515.1812	22-70	4,0	45,0	10

1.1/2" POWER SOCKETS

Hexagon impact socket

- 6 point
- According to DIN 3129 / ISO 2725-2
- Internal square drive to DIN 3121 / ISO 1174
- Short execution
- For machinery usage
- Phosphate finish
- Chrome molybdenum

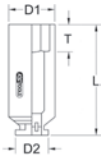
13/2"

	⬢ mm	⬢	D1 mm	D2 mm	T mm	L mm	kg
515.2120	36,0	1.7/16"	64,0	86,0	20,0	78,0	2,30
515.2121	37,0	-"	65,0	86,0	21,0	78,0	2,30
515.2122	38,0	1.1/2"	66,0	86,0	21,0	78,0	2,30
515.2123	40,0	1.9/16"	68,0	86,0	23,0	80,0	2,40
515.2239	41,0	1.5/8"	70,0	86,0	23,0	80,0	2,40
515.2125	42,0	1.11/16"	71,0	86,0	23,0	82,0	2,40
515.2126	43,0	1.3/4"	73,0	86,0	23,0	82,0	2,40
515.2240	45,0	-"	75,0	86,0	23,0	84,0	2,40
515.2128	46,0	1.13/16"	76,0	86,0	24,0	84,0	2,57

	mm		D1 mm	D2 mm	T mm	L mm	kg
515.2129	47,0	1.7/8"	77,0	86,0	26,0	87,0	2,57
515.2241	48,0	1.15/16"	79,0	86,0	26,0	87,0	2,57
515.2131	50,0	2"	81,0	86,0	25,0	87,0	2,75
515.2242	52,0	2.1/16"	83,0	86,0	28,0	87,0	2,75
515.2243	54,0	2.1/8"	86,0	86,0	30,0	90,0	2,88
515.2244	55,0	2.3/16"	86,0	86,0	30,0	90,0	2,88
515.2135	56,0	2.1/4"	88,0	86,0	30,0	92,0	3,00
515.2245	58,0	2.5/16"	92,0	86,0	33,0	92,0	3,00
515.2137	60,0	2.3/8"	93,0	86,0	36,0	92,0	3,22
515.2246	61,0	2.7/16"	95,0	86,0	36,0	95,0	3,30
515.2139	62,0	-"	96,0	86,0	36,0	95,0	3,30
515.2140	63,0	2.1/2"	97,0	86,0	36,0	95,0	3,30
515.2247	65,0	2.9/16"	97,0	86,0	36,0	95,0	3,50
515.2142	68,0	2.11/16"	104,0	86,0	38,0	100,0	3,80
515.2143	70,0	2.3/4"	105,0	86,0	38,0	100,0	4,03
515.2144	72,0	2.13/16"	108,0	86,0	38,0	103,0	4,10
515.2145	73,0	2.7/8"	108,0	86,0	38,0	103,0	4,20
515.2146	75,0	2.15/16"	110,0	86,0	38,0	103,0	4,35
515.2147	76,0	3"	113,0	86,0	38,0	103,0	4,50
515.2148	77,0	3.1/16"	114,0	86,0	38,0	103,0	4,60
515.2149	78,0	3.1/8"	115,0	86,0	41,0	110,0	4,70
515.2150	80,0	3.3/16"	116,0	86,0	43,0	110,0	4,94
515.2151	85,0	3.3/8"	125,0	86,0	45,0	118,0	5,98
515.2152	88,0	3.1/2"	128,0	86,0	45,0	118,0	6,00
515.2153	90,0	3.9/16"	130,0	86,0	47,0	118,0	6,21
515.2154	95,0	3.3/4"	137,0	95,0	52,0	118,0	7,16
515.2155	100,0	3.15/16"	140,0	95,0	52,0	125,0	7,58
515.2156	105,0	4.1/8"	150,0	95,0	54,0	125,0	8,52
515.2157	110,0	4.3/8"	156,0	95,0	57,0	125,0	8,78
515.2158	115,0	4.1/2"	160,0	95,0	60,0	135,0	8,87
515.2238	120,0	4.3/4"	168,0	95,0	62,0	135,0	10,41

Hexagon impact socket, deep

- 6 point
- According to DIN 3129 / ISO 2725-2
- Internal square drive to DIN 3121 / ISO 1174
- Long execution
- For machinery usage
- Phosphate finish
- Chrome molybdenum



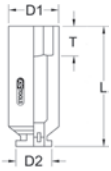
1/2"

	mm		D1 mm	D2 mm	T mm	L mm	kg
515.2159	41,0	1.5/8"	70,0	86,0	23,0	115,0	3,12
515.2160	46,0	1.13/16"	76,0	86,0	24,0	115,0	3,29
515.2161	50,0	2"	81,0	86,0	26,0	135,0	3,99
515.2162	54,0	2.1/8"	86,0	86,0	30,0	140,0	4,00
515.2163	55,0	2.3/16"	86,0	86,0	30,0	140,0	4,29
515.2164	57,0	-"	86,0	86,0	36,0	150,0	5,00
515.2165	60,0	2.3/8"	93,0	86,0	36,0	150,0	5,05
515.2166	62,0	-"	96,0	86,0	36,0	150,0	5,20
515.2167	65,0	2.9/16"	97,0	86,0	36,0	150,0	5,35
515.2168	70,0	2.3/4"	105,0	86,0	38,0	160,0	6,33
515.2169	73,0	2.7/8"	108,0	86,0	41,0	160,0	6,50
515.2170	75,0	2.15/16"	110,0	86,0	41,0	170,0	7,07
515.2171	76,0	3"	110,0	86,0	41,0	170,0	7,10
515.2172	78,0	3.1/8"	115,0	86,0	43,0	170,0	7,20
515.2173	80,0	3.3/16"	116,0	86,0	43,3	170,0	7,58
515.2174	85,0	3.3/8"	125,0	86,0	45,0	170,0	8,69
515.2175	90,0	3.9/16"	130,0	86,0	47,0	170,0	9,03
515.2176	95,0	3.3/4"	137,0	95,0	52,0	180,0	10,90
515.2177	100,0	3.15/16"	144,0	95,0	54,0	190,0	11,45
515.2178	105,0	4.1/8"	150,0	95,0	54,0	190,0	13,13
515.2179	110,0	4.3/8"	156,0	95,0	54,0	200,0	14,60
515.2180	115,0	4.1/2"	164,0	95,0	62,0	210,0	14,77
515.2181	120,0	4.3/4"	168,0	95,0	62,0	210,0	16,98

2.1/2" POWER SOCKETS

Hexagonal force socket

- 6 point
- According to DIN 3129 / ISO 2725-2
- Internal square drive to DIN 3121 / ISO 1174
- For machinery usage
- Phosphate finish
- Chrome molybdenum



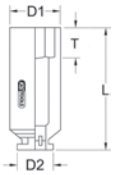
2 1/2"

	mm		D1 mm	D2 mm	T mm	L mm	kg
515.2182	60,0	2.3/8"	99,0	127,0	37,0	125,0	7,25
515.2183	65,0	2.9/16"	105,0	127,0	40,0	130,0	7,90
515.2184	70,0	2.3/4"	110,0	127,0	40,0	130,0	8,00
515.2185	75,0	2.7/8"	118,0	127,0	42,0	140,0	8,70
515.2186	77,0	-"	122,0	127,0	45,0	140,0	9,00
515.2187	80,0	3.3/16"	124,0	127,0	45,0	140,0	0,90
515.2188	85,0	3.3/8"	130,0	127,0	52,0	140,0	9,30
515.2189	90,0	3.9/16"	136,0	127,0	52,0	145,0	10,10
515.2190	95,0	3.3/4"	143,0	127,0	52,0	145,0	10,60
515.2191	100,0	3.15/16"	149,0	127,0	58,0	150,0	11,50
515.2192	105,0	4.1/8"	155,0	127,0	58,0	155,0	12,40
515.2193	110,0	4.3/8"	161,0	127,0	60,0	160,0	13,40
515.2194	115,0	4.1/2"	167,0	127,0	62,0	165,0	14,00
515.2195	120,0	4.3/4"	176,0	127,0	67,0	170,0	17,00
515.2196	125,0	-"	184,0	127,0	72,0	175,0	19,00
515.2197	130,0	5.1/8"	187,0	152,0	72,0	175,0	20,50
515.2198	135,0	5.3/8"	164,0	152,0	77,0	180,0	22,10
515.2199	140,0	5.1/2"	204,0	152,0	77,0	180,0	22,50
515.2200	145,0	-"	207,0	152,0	83,0	185,0	26,50
515.2201	150,0	-"	214,0	152,0	83,0	185,0	28,10
515.2202	155,0	-"	224,0	152,0	90,0	190,0	28,80
515.2203	160,0	-"	227,0	152,0	90,0	190,0	29,70
515.2204	165,0	6.1/2"	234,0	152,0	95,0	195,0	31,20
515.2205	170,0	-"	244,0	152,0	95,0	195,0	3,30
515.2206	175,0	-"	247,0	152,0	100,0	200,0	35,10
515.2207	180,0	-"	254,0	152,0	100,0	200,0	38,00
515.2208	185,0	-"	257,0	152,0	105,0	210,0	39,00
515.2209	190,0	-"	264,0	152,0	105,0	210,0	41,00
515.2210	200,0	-"	274,0	152,0	110,0	220,0	45,00
515.2211	210,0	-"	287,0	152,0	110,0	220,0	48,00

3.1/2" POWER SOCKETS

Hexagon impact socket

- 6 point
- According to DIN 3129 / ISO 2725-2
- Internal square drive to DIN 3121 / ISO 1174
- For machinery usage
- Phosphate finish
- Chrome molybdenum



3 1/2"

	mm		D1 mm	D2 mm	T mm	L mm	kg
515.2213	120,0	4.3/4"	179,0	175,0	67,0	277,0	20,80
515.2215	130,0	5.1/8"	192,0	175,0	67,0	280,0	22,90
515.2217	135,0	5.3/8"	198,0	175,0	72,0	280,0	24,50
515.2219	145,0	-"	210,0	200,0	78,0	295,0	32,20
515.2221	150,0	-"	217,0	200,0	83,0	295,0	33,70
515.2222	155,0	-"	223,0	200,0	90,0	297,0	35,00
515.2223	165,0	6.1/2"	236,0	200,0	95,0	313,0	37,90
515.2224	170,0	-"	244,0	200,0	95,0	313,0	40,00
515.2225	175,0	-"	248,0	200,0	100,0	313,0	42,50
515.2227	180,0	-"	254,0	200,0	100,0	320,0	44,00
515.2228	195,0	-"	274,0	200,0	110,0	328,0	49,00
515.2229	200,0	-"	280,0	200,0	110,0	332,0	51,00
515.2233	230,0	9.1/8"	321,0	200,0	120,0	359,0	66,90
515.2234	235,0	-"	324,0	200,0	120,0	362,0	69,90

3.1/2" POWER EXTENSIONS

Impact extension

- Square drive adaptor to DIN 3121 / ISO 1174
- Internal square drive to DIN 3121 / ISO 1174
- For machinery usage
- Phosphate finish
- Chrome molybdenum

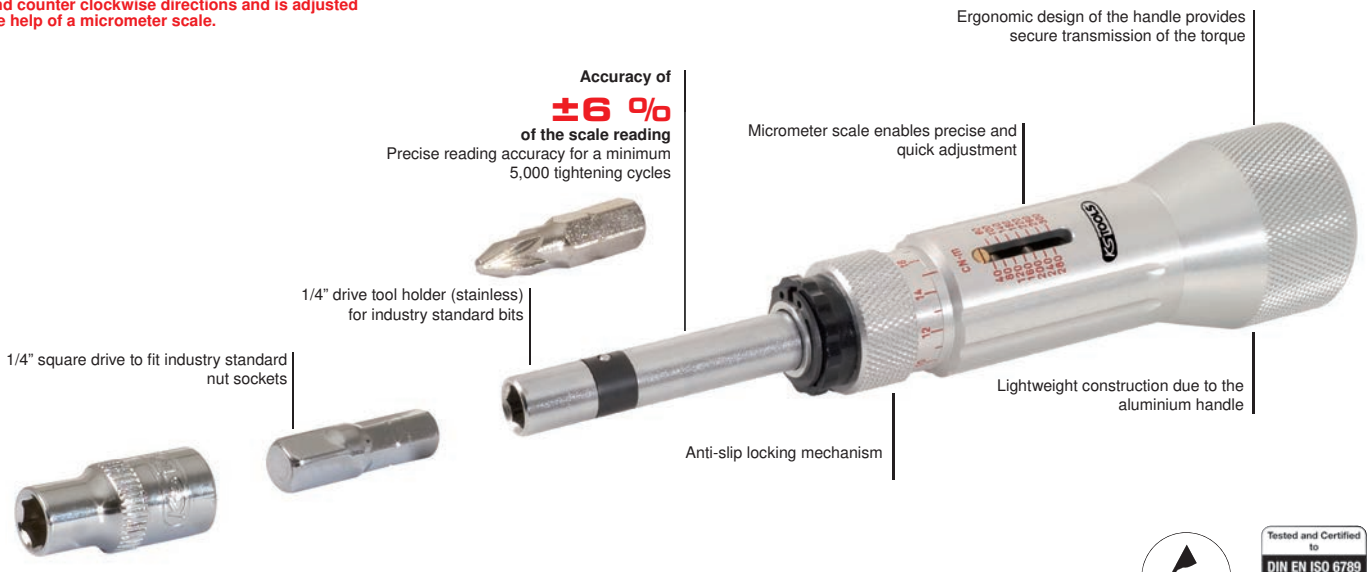
3 1/2"

	L mm	D mm	kg
515.2236	510,0	175,0	50,60
515.2237	750,0	175,0	71,10


KS TOOLS
Innovation is
our mission!

TORQUE SCREWDRIVERS

This torque screwdriver is fitted with a friction clutch. This enables it to ratchet when the set value is achieved. As a result, it is not possible to over-tighten the screw. The torque screwdriver has fastening function in clockwise and counter clockwise directions and is adjusted with the help of a micrometer scale.

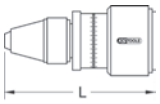


ESD

Tested and Certified to DIN EN ISO 6789 Certificate Precision +/-6%

Precision torque testing instrument with dial indicator and drag indicator

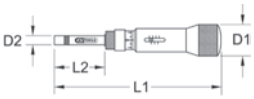
- Display accuracy: ±6 % tolerance of the set scale value
- Precise reading accuracy for a minimum 5.000 tightening cycles
- For controlled display in a clockwise and counter clockwise direction
- For testing, measuring, checking and making adjustments
- Display torque testing instrument with drag indicator
- Large vision panel for precise adjustment
- Tool mounting using a three jaw chuck
- Individually marked with serial number - unique product identification
- including calibration declaration of conformity according to DIN EN ISO 6789:2017(E) - traceable to national standards



	Measuring range mN•m	Measuring range cN•m	Division mN•m	Division cN•m	Tightening chuck Ø mm	L mm		
516.3310	1-9		0,2		1-6,5	83,0	290	
516.3315	2-15		0,2		1-6,5	83,0	290	
516.3320	4-30		0,5		1-6,5	83,0	290	
516.3325	5-60		1		1-6,5	83,0	290	
516.3330	10-120		2		1-6,5	83,0	290	
516.3335	20-240		5		1-6,5	83,0	290	
516.3410		1-15		0,2	1-8,5	102,0	600	
516.3415		2-24		0,2	1-8,5	102,0	600	
516.3420		4-36		0,5	1-8,5	102,0	600	
516.3425		5-60		1,0	1-8,5	102,0	600	
516.3430		10-90		2,0	1-8,5	102,0	600	
516.3435		10-150		2,0	1-8,5	102,0	600	

ESD Torque screwdriver with micrometer scale

- Actuation accuracy: ±6 % tolerance of the set scale value
- Precise reading accuracy for a minimum 5.000 tightening cycles
- For controlled fastening in clockwise and counter clockwise directions
- With precision helical pressure spring
- Clearly noticeable torque release signal through ratchet
- It is not possible to over tighten the set value
- Including a micrometre scale in Nm divisions for precise and fine adjustment
- Ergonomic designed handle provides secure transmission of the torque
- Hexagon socket holder in accordance with DIN 3126 - E6,3
- Electro static discharge - electrostatically protect
- Lightweight construction due to the aluminium handle
- Individually marked with serial number - unique product identification
- including calibration declaration of conformity according to DIN EN ISO 6789:2017(E) - traceable to national standards

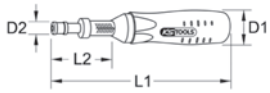


1/4" 6,3 mm

	Measuring range cN•m	Division cN•m	Division N•m	L1 mm	L2 mm	D1 mm	D2 mm		
516.3210	1-15	0,1		111,0	26,0	16,0	10,0	60	
516.3215	2-30	0,2		111,0	26,0	16,0	10,0	60	
516.3220	5-60	0,5		111,0	26,0	25,0	10,0	99	
516.3225	20-120	1,0		157,0	51,0	30,0	10,0	192	
516.3235	40-300	1,0		157,0	51,0	34,0	10,0	214	
516.3240	100-500	2,5		200,0	63,0	40,0	10,0	436	
516.3245	400-1000		0,05	235,0	100,0	45,0	11,0	762	

Torque screwdriver with micrometer scale

- Actuation accuracy: ±6 % tolerance from the set scale value and better
- Precise reading accuracy for a minimum 5.000 tightening cycles
- For controlled fastening in clockwise and counter clockwise directions
- With precision helical pressure spring
- Clearly noticeable torque release signal through ratchet
- It is not possible to over tighten the set value
- Automatic reset in the initial position
- Including a micrometre scale in Nm divisions for precise and fine adjustment
- Ergonomic designed rubber handle provides secure torque transmission
- Hexagon socket holder in accordance with DIN 3126 - E6,3
- Individually marked with serial number - unique product identification
- including calibration declaration of conformity according to DIN EN ISO 6789:2017(E) - traceable to national standards

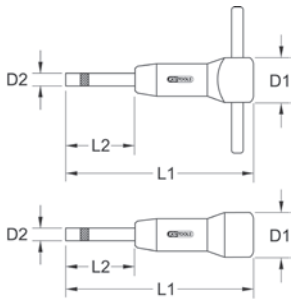


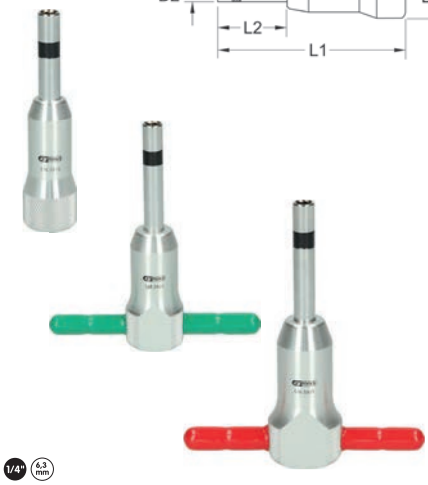
1/4" 6,3 mm

	Measuring range N•m	Division N•m	L mm	L2 mm	D1 mm	D2 mm		
516.3250	0,1 - 1,2	0,01	180,0	28,0	30,0	11,0	230	
516.3255	1 - 6	0,10	200,0	30,0	35,0	11,0	450	

ESD Fixed adjustable torque screwdriver with colour coding

- Actuation accuracy: ±6 % tolerance from the set value
- Precise reading accuracy for a minimum 5.000 tightening cycles
- For controlled fastening in clockwise and counter clockwise directions
- With precision helical pressure spring
- Clearly noticeable torque release signal through ratchet
- It is not possible to over tighten the set value
- Without scale - with a fixed adjustable value
- Ergonomic designed handle provides secure transmission of the torque
- Hexagon socket holder in accordance with DIN 3126 - E6,3
- Electro static discharge - electrostatically protect
- Lightweight construction due to the aluminium handle
- Individually marked with serial number - unique product identification
- including calibration declaration of conformity according to DIN EN ISO 6789:2017(E) - traceable to national standards



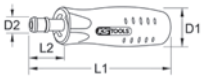


1/4" 6,3 mm

	Measuring range cN•m	L1 mm	L2 mm	D1 mm	D2 mm	Colour code	
516.3910	1 - 15	92,0	22,0	16,0	8,0	-	45
516.3915	5 - 60	102,0	40,0	25,0	10,0	-	94
516.3920	40 - 200	111,0	49,0	30,0	10,0	green	170
516.3925	100 - 500	126,0	56,0	35,0	10,0	red	220

Pre-set torque screwdriver

- Actuation accuracy: ±6 % tolerance from the set scale value and better
- Precise reading accuracy for a minimum 5.000 tightening cycles
- For controlled fastening in clockwise and counter clockwise directions
- Clearly noticeable torque release signal through ratchet
- It is not possible to over tighten the set value
- Automatic reset in the initial position
- Without scale - with a fixed adjustable value
- Ergonomic designed handle provides secure transmission of the torque
- Hexagon socket holder in accordance with DIN 3126 - E6,3
- Individually marked with serial number - unique product identification
- including calibration declaration of conformity according to DIN EN ISO 6789:2017(E) - traceable to national standards

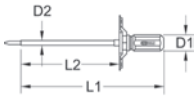


1/4" 6,3 mm

	Measuring range N•m	L mm	L2 mm	D1 mm	D2 mm	
516.3930	0,2 - 1,2	132,0	25,0	30,0	11,0	185
516.3935	1 - 1,8	132,0	25,0	30,0	11,0	185
516.3940	1 - 6	200,0	25,0	30,0	11,0	445

ESD Dial indicating torque screwdriver with a drag indicator

- Display accuracy: ±6 % tolerance of the set scale value
- Precise reading accuracy for a minimum 5.000 tightening cycles
- For controlled display in a clockwise and counter clockwise direction
- Torque screwdriver with a helical pressure spring
- Ergonomic designed handle provides secure transmission of the torque
- Hexagon socket holder in accordance with DIN 3126 - E6,3
- Electro static discharge - electrostatically protect
- Lightweight construction due to the aluminium handle
- Individually marked with serial number - unique product identification
- including calibration declaration of conformity according to DIN EN ISO 6789:2017(E) - traceable to national standards

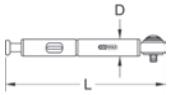


1/4" 6,3 mm

	Measuring range cN•m	Division cN•m	L1 mm	L2 mm	D1 mm	D2 mm	
516.3260	20 - 100	2,0	222,0	130,0	48,0	12,0	290
516.3265	50 - 200	5,0	242,0	130,0	48,0	12,0	320
516.3270	100 - 500	20,0	300,0	188,0	48,0	14,0	420

Stubby torque wrench with exact gearing reversible ratchet head

- Actuation accuracy: ±3 % tolerance of the set scale value
- Precise reading accuracy for a minimum 5.000 tightening cycles
- For controlled fastening in a clockwise direction
- Can untighten without any torque restraint thanks to the anticlockwise latch
- An audible and palpable signal when the desired torque value is achieved
- With exact gearing 72 teeth ratchet mechanism
- With ejection mechanism on the ratchet head
- Ergonomic designed handle provides secure transmission of the torque
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Individually marked with serial number - unique product identification
- including calibration declaration of conformity according to DIN EN ISO 6789:2017(E) - traceable to national standards



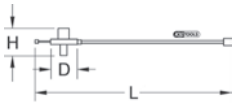
1/4"

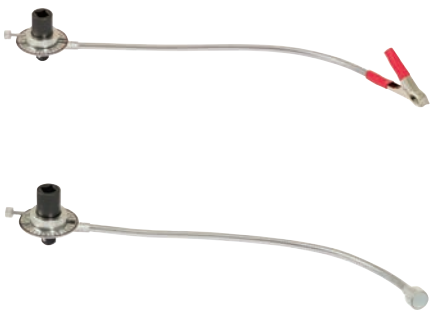
	■	Measuring range N•m	Division N•m	D mm	
516.3280	1/4"	3 - 15	0,50	18,0	190

ROTARY ANGLE DISCS

Rotary angle disc

- For fastening screws at an angle
- Device for angle regulated fastening with a torque wrench
- Flexible arm
- Range 0° - 360°
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Optionally with a magnetic arm or claw arm





1/2" 3/4"

	□	■	Arm	Pitch	D mm	H mm	L mm	
516.1195	1/2"	1/2"	magnet	2°	67,0	63,0	480,0	170
516.1196	1/2"	1/2"	claw	2°	67,0	63,0	538,0	60
516.1197	3/4"	3/4"	magnet	2°	80,0	63,0	500,0	170
516.1198	3/4"	3/4"	claw	2°	80,0	87,0	698,0	60

DIGITAL ANGLE OF ROTATION & TORQUE ADAPTERS

Digital rotation protractor with magnet

- For fastening screws at an angle
- Magnetic
- digital angle display
- acoustic signal and LED display refer to reaching the set angle
- Right- and left-hand suit
- Angle precision: ± 2%
- Resolution: 0.1 °
- Includes 2 AAA 1,5 V batteries
- including calibration declaration of conformity according to DIN EN ISO 6789:2017(E) - traceable to national standards
- In durable plastic storage case

	Ø mm	g	
516.1191	55,0	720	

Digital torque adapter with protractor

- 1/2" square drive and output
- Right- and left-hand suit
- Clockwise torque precision: 3% and counterclockwise: ± 4%
- Digital torque and rotation angle display
- acoustic signal and LED display indicate that the set angle of rotation or torque has been reached
- 5 selectable units (Nm, ft-lb, in-lb, kg-cm, degrees)
- Includes 2 AAA 1,5 V batteries
- including calibration declaration of conformity according to DIN EN ISO 6789:2017(E) - traceable to national standards
- In durable plastic storage case

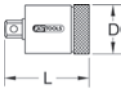
1/2"

	□	■	Ø mm	Measuring range N·m	g	
516.1192	1/2"	1/2"	85,0	6,8-135	242	
516.1193	1/2"	1/2"	85,0	10-200	242	
516.1194	1/2"	1/2"	85,0	17-340	242	

TORQUE LIMITERS

Torque limiter for spark plugs

- High accuracy
- For controlled fastening in a clockwise direction
- Clearly noticeable torque release signal through ratchet
- It is not possible to over tighten the set value
- Without scale - with a fixed adjustable value
- Can untighten without any torque restraint thanks to the anticlockwise latch
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock



3/8"

	□	■	N·m	D mm	L mm	g	
516.1501	3/8"	3/8"	18	28,0	51,5	165	
516.1502	3/8"	3/8"	24	28,0	52,0	166	

Pre-set torque limiter with ball lock

- High accuracy
- For controlled fastening in clockwise and counter clockwise directions
- Clearly noticeable torque release signal through ratchet
- It is not possible to over tighten the set value
- Automatic reset in the initial position
- Without scale - with a fixed adjustable value
- Easy to operate
- For application with low torque
- Hexagon socket holder in accordance with DIN 3126 - E6,3
- Square drive in accordance with DIN 3120 - ISO 1174

3/8" 6,3 mm

	□	○	Measuring range N·m	D1 mm	D2 mm	L mm	g	
516.1503	3/8"	1/4"	0,5-5	22,0	11,0	75,0	90	
516.1504	3/8"	1/4"	5-10	22,0	11,0	75,0	90	

Pre-set torque limiter with ball lock

- High accuracy
- For controlled fastening in clockwise and counter clockwise directions
- Clearly noticeable torque release signal through ratchet
- It is not possible to over tighten the set value
- Automatic reset in the initial position
- Without scale - with a fixed adjustable value
- Easy to operate
- For application with low torque
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock

3/8"

	□	■	Measuring range N·m	D1 mm	D2 mm	L mm	g	
516.1507	3/8"	3/8"	0,5-5	22,0	10,0	75,0	95	
516.1508	3/8"	3/8"	5-10	22,0	10,0	75,0	95	

TORQUE WRENCH

Handle end:
The desired torque can be adjusted and set by simply pulling the out locking knob, adjusting and then pushing in the locking knob at the end of the handle, using the ergonomic finger grips. A black ring on the locking knob indicates that the wrench must be set and adjusted for the required torque and also prevents inadvertent maladjustment of the wrench when using it.

Ratchet head:
A highly robust ratchet mechanism for clockwise and counter-clockwise movement is integrated in the polished ratchet head.
The direction of rotation can be changed by simply rotating the square drive. A sliding roller bearing mechanism in the interior of the wrench ensures the highest level of accuracy and long life. An audible and palpable signal indicates automatically that the desired torque value has been achieved.

Micrometer scale:
Even fine adjustments can be made with the help of the white micrometer scale. The vision panel has been sized liberally and ensures that the micrometer value can be read off the scale in an optimal and simple manner using the magnifying glass. Thus, depending on the model, divisions of 1/ 0,5/ 0,1 or 0,025 Nm can be adjusted accurately.

Corrosion:
The robust steel pipe body is coated with a powder coating protection in order to ensure durable corrosion-proof properties.

Serial number:
A permanent and unique serial number is applied on all torque wrenches, which provides unique product identification.

Two-component handle:
The new durable and ergonomic two-component handle ensures safe and effortless working, whereby the softer compnent prevents the hand from slipping and provides maximum safety.

Scale with magnifying glass:
A double scale having Nm and Lbf•ft divisions that can be read easily, is concealed under a large sized vision panel, which enables particularly accurate adjustment of the desired torque value. In order to be able to read off the scale in an optimal and simple manner, a strong magnifying glass is integrated in the vision panel.

Accuracy of
±3 %
of the scale readingPrecise reading accuracy for a minimum 5,000 tightening cycles

Tested and Certified to DIN EN ISO 6789 Certificate Precision +/-3%

1/4" - 1/2" | 1/4" - 1" | 9x12 mm | 14x18 mm

RATCHET HEADS

PUSH BUTTON RELEASE

Quick-Lock mechanism on the ratchet head

MUSHROOM HEAD WITH SQUARE

The direction of rotation (clockwise and counter clockwise) can be changed by simply rotating the square drive piece. The torque wrenches can be upgraded to another drive size with the the range of accessories available.

ROBUST LATCH HEAD

Robust ratchet mechanism for left and right tightening

ERGOTORQUE® *precision* TORQUE WRENCH

T-handle box wrench

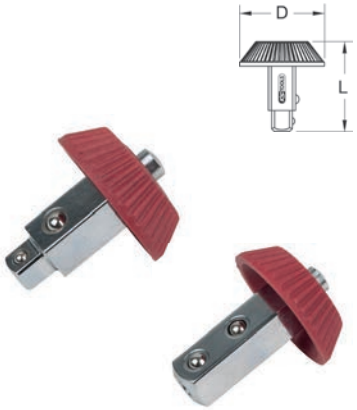
- Enables quick pre-fastening of the screw connections
- Especially for using in confined spaces
- Especially suitable for rapid screw tightening with the T-handle
- It is simply to be used in place of the standard box wrench
- Ergonomically shaped T-handle
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock

1/4" 3/8" 1/2"

	□	■	B mm	L mm	g
516.1404	3/8"	1/4"	83,0	72,0	51
516.1414	3/8"	3/8"	83,0	72,0	51
516.1424	1/2"	3/8"	100,0	83,0	97
516.1444	1/2"	1/2"	100,0	83,0	107

Rotary square box wrench

- Enables quick pre-fastening of the screw connections, especially in constrained spaces
- Simple to be used in place of the standard box wrench
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- With ejection mechanism on the ratchet head

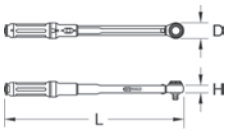


1/4" 3/8" 1/2" 3/4" 1"

	□	■	D mm	L mm	g
516.1408	3/8"	1/4"	31,0	33,0	21
516.1418	3/8"	3/8"	31,0	33,0	21
516.1428	1/2"	3/8"	39,0	52,0	65
516.1448	1/2"	1/2"	39,0	52,0	65
516.1499	3/4"	3/4"	63,0	73,0	180
516.1492	1"	3/4"	83,0	78,0	380
516.1498	1"	1"	83,0	78,0	380

ERGOTORQUE® *precision* torque wrench with rotary mushroom ratchet head

- Actuation accuracy: ±3 % tolerance of the set scale value
- Precise reading accuracy for a minimum 5.000 tightening cycles
- For controlled fastening in clockwise and counter clockwise directions
- Torque setting by pulling out and pushing in the slide in knob at the end of the handle
- The direction of rotation (clockwise and counter clockwise) can be changed by simply rotating the square drive piece
- Double scale in Nm and lbf•ft divisions for precise adjustment
- Includes micrometer scale in Nm divisions for precise and fine adjustment
- Large vision panel, precise adjustment using a magnifying glass
- An audible and palpable signal when the desired torque value is achieved
- Exact gearing 30 teeth ratchet mechanism
- Torque setting is quick and easy using the locking knob in the handle end
- Secure locking function within the handle
- With ejection mechanism on the ratchet head
- Two component handle with a soft zone, is ergonomic in design and comfortable in the hand
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Individually marked with serial number - unique product identification
- including calibration declaration of conformity according to DIN EN ISO 6789:2017(E) - traceable to national standards



1/4" 3/8" 1/2" 3/4" 1"

	■	N•m	Division N•m	lbf•ft	L mm	D mm	H mm	kg
516.1402	1/4"	1-5	0,10	0,8 - 3,6	289,0	35,0	18,0	0,46
516.1412	1/4"	5-25	0,10	0,8 - 18	289,0	35,0	18,0	0,46
516.1422	3/8"	10-50	0,25	4 - 37	350,0	45,0	23,0	0,61
516.1432	1/2"	20-100	0,50	8 - 75	412,0	45,0	23,0	0,91
516.1442	1/2"	40-200	1,00	15 - 150	500,0	45,0	23,0	1,30
516.1472	1/2"	60-320	1,00	45 - 236	585,0	45,0	23,0	1,45
516.1482	1/2"	80-420	1,00	60 - 310	678,0	45,0	23,0	2,10
516.1490	3/4"	110-550	1,00	75 - 405	960,0	69,0	33,0	3,80
516.1493	3/4"	150-750	10,00	150 - 550	1250,0	69,0	33,0	7,30
516.1495	1"	200-1000	20,00	220 - 730	1500,0	90,0	36,0	5,80

ERGOTORQUE® *precision* torque wrench with reversible ratchet head

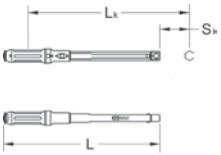
- Actuation accuracy: ±3 % tolerance of the set scale value
- Precise reading accuracy for a minimum 5.000 tightening cycles
- For controlled fastening in a clockwise direction
- Can untighten without any torque restraint thanks to the anticlockwise latch
- Double scale in Nm and lbf•ft divisions for precise adjustment
- Includes micrometer scale in Nm divisions for precise and fine adjustment
- Large vision panel, precise adjustment using a magnifying glass
- An audible and palpable signal when the desired torque value is achieved
- With exact gearing 36 teeth ratchet mechanism
- With ejection mechanism on the ratchet head
- Torque setting is quick and easy using the locking knob in the handle end
- Secure locking function within the handle
- Two component handle with a soft zone, is ergonomic in design and comfortable in the hand
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Individually marked with serial number - unique product identification
- including calibration declaration of conformity according to DIN EN ISO 6789:2017(E) - traceable to national standards

1/4" 3/8" 1/2"

	■	N•m	lbf•ft	Division N•m	L mm	D mm	H mm	kg
516.1512	1/4"	5-25	0,8 -18	0,10	289,0	35,0	18,0	0,46
516.1522	3/8"	10-50	4 - 37	0,25	350,0	45,0	23,0	0,61
516.1532	1/2"	20-100	8 - 75	0,50	412,0	45,0	23,0	0,91
516.1542	1/2"	40-200	15 - 150	1,00	500,0	45,0	23,0	1,30
516.1572	1/2"	60-320	45 - 236	1,00	585,0	45,0	23,0	1,45
516.1582	1/2"	80-420	60 - 310	1,00	678,0	45,0	23,0	2,10

ERGOTORQUE®*precision* fine adjustment torque wrench with retangular tool holder

- Actuation accuracy: ±3 % tolerance of the set scale value
- Precise reading accuracy for a minimum 5.000 tightening cycles
- For controlled fastening in clockwise and counter clockwise directions
- Double scale in Nm and lbf•ft divisions for precise adjustment
- Includes micrometer scale in Nm divisions for precise and fine adjustment
- Large vision panel, precise adjustment using a magnifying glass
- An audible and palpable signal when the desired torque value is achieved
- Torque setting is quick and easy using the locking knob in the handle end
- Secure locking function within the handle
- Two component handle with a soft zone, is ergonomic in design and comfortable in the hand
- Snap lock tool holder available for replaceable 9x12 or 14x18 end tools
- Individually marked with serial number - unique product identification
- including calibration declaration of conformity according to DIN EN ISO 6789:2017(E) - traceable to national standards

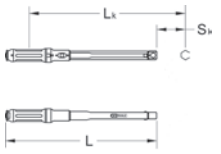


9x12 mm | 14x18 mm

	□	N•m	lbf•ft	Division N•m	L mm	Lk mm	Sk mm	kg
516.1612	9x12	5-25	0,8 - 18	0,10	280,0	245,0	17,5	0,30
516.1622	9x12	10-50	4 - 37	0,25	335,0	295,0	17,5	0,45
516.1632	9x12	20-100	8 - 75	0,50	375,0	335,0	17,5	0,60
516.1633	14x18	20-100	8 - 75	0,50	375,0	335,0	17,5	1,02
516.1642	9x12	40-200	15 - 150	1,00	465,0	425,0	17,5	0,85
516.1652	14x18	40-200	15 - 150	1,00	470,0	435,0	25,0	0,90
516.1672	14x18	60-320	45 - 236	1,00	565,0	530,0	25,0	1,20
516.1682	14x18	80-420	60 - 310	1,00	650,0	435,0	25,0	1,60
516.1690	14x18	110-550	74,0 - 405	1,00	920,0	875,0	25,0	3,75
516.1693	14x18	150-750	148 - 553	1,00	1120,0	1155,0	25,0	5,27

ERGOTORQUE®*precision* fine adjustment torque wrench with retangular tool holder

- Actuation accuracy: ±3 % tolerance from the set value
- Precise reading accuracy for a minimum 5.000 tightening cycles
- For controlled fastening in clockwise and counter clockwise directions
- Without scale - with a fixed adjustable value
- An audible and palpable signal when the desired torque value is achieved
- Two component handle with a soft zone, is ergonomic in design and comfortable in the hand
- Snap lock tool holder available for replaceable 9x12 or 14x18 end tools
- Individually marked with serial number - unique product identification
- including calibration declaration of conformity according to DIN EN ISO 6789:2017(E) - traceable to national standards



9x12 mm | 14x18 mm

	□	N•m	lbf•ft	L mm	Lk mm	Sk mm	g
516.1810	9x12	5-25	0,8 - 18	190,0	155,0	17,5	230
516.1820	9x12	10-50	4 - 37	250,0	210,0	17,5	300
516.1830	9x12	20-85	12 - 64	330,0	280,0	17,5	370
516.1840	14x18	40-200	15 - 150	410,0	370,0	25,0	780

ERGOTORQUE®*precision* TORQUE WRENCH TOOLKIT

ERGOTORQUE®precision torque wrench with bag

- Actuation accuracy: ±3 % tolerance of the set scale value
- Precise reading accuracy for a minimum 5.000 tightening cycles
- For controlled fastening in clockwise and counter clockwise directions
- The direction of rotation (clockwise and counter clockwise) can be changed by simply rotating the square drive piece
- Double scale in Nm and lbf•ft divisions for precise adjustment
- Large vision panel, precise adjustment using a magnifying glass
- With ejection mechanism on the ratchet head
- An audible and palpable signal when the desired torque value is achieved
- Exact gearing 30 teeth ratchet mechanism
- Torque setting is quick and easy using the locking knob in the handle end
- Secure locking function within the handle
- Two component handle with a soft zone, is ergonomic in design and comfortable in the hand
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Individually marked with serial number - unique product identification
- including calibration declaration of conformity according to DIN EN ISO 6789:2017(E) - traceable to national standards

1/2"

			kg
516.1905	5 pcs	ERGOTORQUE®precision torque wrench with bag	2,50
1 x		40 - 200 N•m	
1 x		125 mm	
3 x		17 - 19 - 21 mm	

ERGOTORQUE®*precision* torque wrench toolkit 5 - 25 Nm

- Set contents for universal applications
- Includes Torque wrench with rotary mushroom ratchet head
- Supplied in a metal carrying case with the tools clearly organised

1/4"

			kg
516.1415	32 pcs	ERGOTORQUE®*precision* torque wrench toolkit 5 - 25 Nm	4,73
1 x		5 - 25 N•m	
4 x		50 - 75 - 100 - 150 mm	
13 x		4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 12 - 13 - 14 mm	
6 x		3 - 4 - 5 - 6 - 7 - 8 mm	
7 x		T10 - T15 - T20 - T25 - T27 - T30 T40	
1 x		3/8" x 1/4"	

ERGOTORQUE®*precision* torque wrench toolkit 5-25 Nm

- Set contents for universal applications
- Includes torque wrench with reversible ratchet head
- Supplied in a metal carrying case with the tools clearly organised

1/4"

			kg
516.1515	31 pcs	ERGOTORQUE®*precision* torque wrench toolkit 5-25 Nm	4,99
1 x		1 - 25 N•m	
4 x		50 - 75 - 100 - 150 mm	
13 x		4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 12 - 13 - 14 mm	
6 x		3 - 4 - 5 - 6 - 7 - 8 mm	
7 x		T10 - T15 - T20 - T25 - T27 - T30 T40	

ERGOTORQUE®*precision* torque wrench toolkit 10 - 50 Nm

- Set contents for universal applications
- Includes Torque wrench with rotary mushroom ratchet head
- Supplied in a metal carrying case with the tools clearly organised

3/8"

516.1425	41 pcs	ERGOTORQUE®*precision* torque wrench toolkit 10 - 50 Nm	10,32 kg
1 x		5 - 50 N•m	
3 x		75 - 150 - 250 mm	
18 x		6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 16 - 17 - 18 - 19 - 20 - 21 - 22 - 24 mm	
7 x		3 - 4 - 5 - 6 - 7 - 8 - 10 mm	
11 x		T10 - T15 - T20 - T25 - T27 - T30 T40 - T45 - T50 - T55 - T60	
1 x		3/8“	

ERGOTORQUE®*precision* torque wrench toolkit 20 - 100 Nm

- Set contents for universal applications
- Includes Torque wrench with rotary mushroom ratchet head
- Supplied in a metal carrying case with the tools clearly organised

1/2"

516.1435	49 pcs	ERGOTORQUE®*precision* torque wrench toolkit 20 - 100 Nm	13,48 kg
1 x		10 - 100 N•m	
3 x		75 - 125 - 250 mm	
21 x		8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 19 - 20 - 21 - 22 - 24 - 27 - 30 - 32 - 34 - 36 mm	
11 x		4 - 5 - 6 - 7 - 8 - 9 - 10 - 12 - 14 - 17 19 mm	
12 x		T10 - T15 - T20 - T25 - T27 - T30 T40 - T45 - T50 - T55 - T60 - T70	
1 x		1/2“	

ERGOTORQUE®*precision* torque wrench toolkit 40 - 200 Nm

- Set contents for universal applications
- Includes Torque wrench with rotary mushroom ratchet head
- Supplied in a metal carrying case with the tools clearly organised

1/2"

516.1445	49 pcs	ERGOTORQUE®*precision* torque wrench toolkit 40 - 200 Nm	13,90 kg
1 x		20 - 200 N•m	
3 x		75 - 125 - 250 mm	
21 x		8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 19 - 20 - 21 - 22 - 24 - 27 - 30 - 32 - 34 - 36 mm	
11 x		4 - 5 - 6 - 7 - 8 - 9 - 10 - 12 - 14 - 17 19 mm	
12 x		T10 - T15 - T20 - T25 - T27 - T30 T40 - T45 - T50 - T55 - T60 - T70	
1 x		1/2“	

ERGOTORQUE®*precision* torque wrench toolkit 10 - 50 Nm

- Set contents for universal applications
- Includes torque wrench with reversible ratchet head
- Supplied in a metal carrying case with the tools clearly organised

3/8"

516.1525	40 pcs	ERGOTORQUE®*precision* torque wrench toolkit 10 - 50 Nm	6,62 kg
1 x		10 - 50 N•m	
3 x		75 - 150 - 250 mm	
18 x		6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 16 - 17 - 18 - 19 - 20 - 21 - 22 - 24 mm	
7 x		3 - 4 - 5 - 6 - 7 - 8 - 10 mm	
11 x		T10 - T15 - T20 - T25 - T27 - T30 T40 - T45 - T50 - T55 - T60	

ERGOTORQUE®*precision* torque wrench toolkit 60-320 Nm

- Set contents for universal applications
- Includes Torque wrench with rotary mushroom ratchet head
- Supplied in a metal carrying case with the tools clearly organised

1/2"

516.1475	49 pcs	ERGOTORQUE®*precision* torque wrench toolkit 60-320 Nm	13,98 kg
1 x		60 - 320 N•m	
3 x		75 - 125 - 250 mm	
21 x		8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 19 - 20 - 21 - 22 - 24 - 27 - 30 - 32 - 34 - 36 mm	
11 x		4 - 5 - 6 - 7 - 8 - 9 - 10 - 12 - 14 - 17 19 mm	
12 x		T10 - T15 - T20 - T25 - T27 - T30 T40 - T45 - T50 - T55 - T60 - T70	
1 x		1/2“	

ERGOTORQUE® *precision* torque wrench toolkit 20 - 100 Nm

- Set contents for universal applications
- Includes torque wrench with reversible ratchet head
- Supplied in a metal carrying case with the tools clearly organised

1/2"

			kg
516.1535	48 pcs	ERGOTORQUE® *precision* torque wrench toolkit 20 - 100 Nm	13,61
1 x		20 - 100 N•m	
3 x		75 - 125 - 250 mm	
21 x		8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 19 - 20 - 21 - 22 - 24 - 27 - 30 - 32 - 34 - 36 mm	
11 x		4 - 5 - 6 - 7 - 8 - 9 - 10 - 12 - 14 - 17 19 mm	
12 x		T10 - T15 - T20 - T25 - T27 - T30 T40 - T45 - T50 - T55 - T60 - T70	

ERGOTORQUE® *precision* torque wrench toolkit 60-320 Nm

- Set contents for universal applications
- Includes torque wrench with reversible ratchet head
- Supplied in a metal carrying case with the tools clearly organised

1/2"

			kg
516.1575	48 pcs	ERGOTORQUE® *precision* torque wrench toolkit 60-320 Nm	14,11
1 x		60 - 320 Nm	
3 x		75 - 125 - 250 mm	
21 x		8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 19 - 20 - 21 - 22 - 24 - 27 - 30 - 32 - 34 - 36 mm	
11 x		4 - 5 - 6 - 7 - 8 - 9 - 10 - 12 - 14 - 17 19 mm	
12 x		T10 - T15 - T20 - T25 - T27 - T30 T40 - T45 - T50 - T55 - T60 - T70	

ERGOTORQUE® *precision* torque wrench toolkit 40 - 200 Nm

- Set contents for universal applications
- Includes torque wrench with reversible ratchet head
- Supplied in a metal carrying case with the tools clearly organised

1/2"

			kg
516.1545	48 pcs	ERGOTORQUE® *precision* torque wrench toolkit 40 - 200 Nm	13,81
1 x		40 - 200 N•m	
3 x		75 - 125 - 250 mm	
21 x		8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 19 - 20 - 21 - 22 - 24 - 27 - 30 - 32 - 34 - 36 mm	
11 x		4 - 5 - 6 - 7 - 8 - 9 - 10 - 12 - 14 - 17 19 mm	
12 x		T10 - T15 - T20 - T25 - T27 - T30 T40 - T45 - T50 - T55 - T60 - T70	

ERGOTORQUE® *precision* torque wrench toolkit 80-420 Nm

- Set contents for universal applications
- Includes torque wrench with reversible ratchet head
- Supplied in a metal carrying case with the tools clearly organised

1/2"

			kg
516.1585	48 pcs	ERGOTORQUE® *precision* torque wrench toolkit 80-420 Nm	14,51
1 x		80 - 420 N•m	
3 x		75 - 125 - 250 mm	
21 x		8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 19 - 20 - 21 - 22 - 24 - 27 - 30 - 32 - 34 - 36 mm	
11 x		4 - 5 - 6 - 7 - 8 - 9 - 10 - 12 - 14 - 17 19 mm	
12 x		T10 - T15 - T20 - T25 - T27 - T30 T40 - T45 - T50 - T55 - T60 - T70	

ERGOTORQUE® *precision* torque wrench toolkit 5 - 25 Nm

- Set contents for universal applications
- Includes torque wrench with retangular tool holder
- Supplied in a metal carrying case with the tools clearly organised

9x12 mm

			kg
516.1615	33 pcs	ERGOTORQUE® *precision* torque wrench toolkit 5 - 25 Nm	8,47
1 x		5 - 25 N•m	
13 x		7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 16 - 17 - 18 - 19 mm	
14 x		7 - 8 - 10 - 11 - 12 - 13 - 14 - 15 - 16 17 - 18 - 19 - 21 - 22 mm	
2 x		1/4“ - 5/16“	
1 x		9 x 12	
2 x		1/4“ - 3/8“	

ERGOTORQUE®*precision* torque wrench toolkit 10 - 50 Nm

- Set contents for universal applications
- Includes torque wrench with retangular tool holder
- Supplied in a metal carrying case with the tools clearly organised

9x12 mm

			kg
516.1625	33 pcs	ERGOTORQUE®*precision* torque wrench toolkit 10 - 50 Nm	8,56
1 x		10 - 50 N•m	
13 x		7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 16 - 17 - 18 - 19 mm	
14 x		7 - 8 - 10 - 11 - 12 - 13 - 14 - 15 - 16 17 - 18 - 19 - 21 - 22 mm	
2 x		1/4“ - 5/16“	
1 x		9 x 12	
2 x		1/4“ - 3/8“	

ERGOTORQUE®*precision* torque wrench toolkit 40 - 200 Nm

- Set contents for universal applications
- Includes torque wrench with retangular tool holder
- Supplied in a metal carrying case with the tools clearly organised

9x12 mm

			kg
516.1645	33 pcs	ERGOTORQUE®*precision* torque wrench toolkit 40 - 200 Nm	9,12
1 x		40 - 200 N•m	
13 x		7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm	
14 x		7 - 8 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 21 - 22 mm	
2 x		1/4“ - 5/16“	
1 x		9 x 12	
2 x		1/4“ - 3/8“	

ERGOTORQUE®*precision* torque wrench toolkit 80-420 Nm

- Set contents for universal applications
- Includes torque wrench with retangular tool holder
- Supplied in a metal carrying case with the tools clearly organised

14x18 mm

			kg
516.1685	39 pcs	ERGOTORQUE®*precision* torque wrench toolkit 80-420 Nm	15,65
1 x		80 - 420 N•m	
19 x		13 - 14 - 15 - 16 - 17 - 18 - 19 - 21 - 22 - 24 26 - 27 - 29 - 30 - 32 - 34 - 36 - 38 - 41 mm	
16 x		13 - 14 - 15 - 16 - 17 - 18 - 19 - 21 - 22 24 - 27 - 30 - 32 - 34 - 36 - 41 mm	
1 x		5/16“	
1 x		14 x 18	
1 x		1/2“	

ERGOTORQUE®*precision* torque wrench toolkit 20 - 100 Nm

- Set contents for universal applications
- Includes torque wrench with retangular tool holder
- Supplied in a metal carrying case with the tools clearly organised

9x12 mm

			kg
516.1635	33 pcs	ERGOTORQUE®*precision* torque wrench toolkit 20 - 100 Nm	8,92
1 x		20 - 100 N•m	
13 x		7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 16 - 17 - 18 - 19 mm	
14 x		7 - 8 - 10 - 11 - 12 - 13 - 14 - 15 - 16 17 - 18 - 19 - 21 - 22 mm	
2 x		1/4“ - 5/16“	
1 x		9 x 12	
2 x		1/4“ - 3/8“	

ERGOTORQUE®*precision* torque wrench toolkit 60-320 Nm

- Set contents for universal applications
- Includes torque wrench with retangular tool holder
- Supplied in a metal carrying case with the tools clearly organised

14x18 mm

			kg
516.1675	39 pcs	ERGOTORQUE®*precision* torque wrench toolkit 60-320 Nm	15,25
1 x		60 - 320 N•m	
19 x		13 - 14 - 15 - 16 - 17 - 18 - 19 - 21 - 22 - 24 26 - 27 - 29 - 30 - 32 - 34 - 36 - 38 - 41 mm	
16 x		13 - 14 - 15 - 16 - 17 - 18 - 19 - 21 - 22 24 - 27 - 30 - 32 - 34 - 36 - 41 mm	
1 x		5/16“	
1 x		14 x 18	
1 x		1/2“	

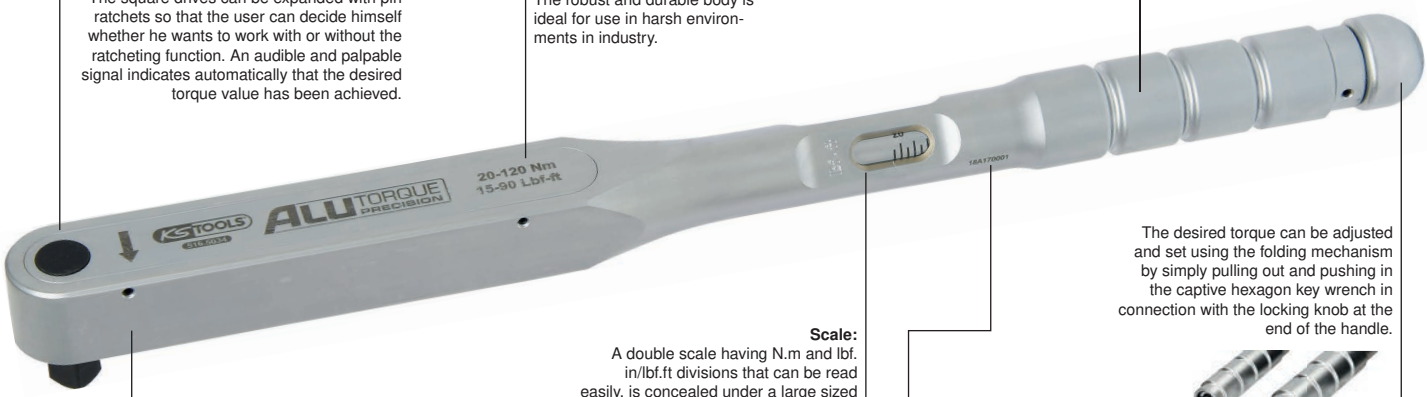
ALUTORQUE*precision*

Torque wrench made from high-strength aluminium alloy

Ratchet head:
A robust mechanism, optionally with a square drive for controlled fastening or with a double square for controlled clockwise and counter clockwise fastening is integrated into the head. The ALUTORQUE*precision* torque wrench is also available with a rectangular reception and guarantees flexible working through this. The square drives can be expanded with pin ratchets so that the user can decide himself whether he wants to work with or without the ratcheting function. An audible and palpable signal indicates automatically that the desired torque value has been achieved.

The robust and durable body is ideal for use in harsh environments in industry.

Aluminium handle:
The new light, durable and ergonomic aluminium handle ensures simple and secure operation.



The desired torque can be adjusted and set using the folding mechanism by simply pulling out and pushing in the captive hexagon key wrench in connection with the locking knob at the end of the handle.

Scale:
A double scale having N.m and lbf. in/lbf.ft divisions that can be read easily, is concealed under a large sized vision panel, which enables particularly accurate adjustment of the desired torque value.

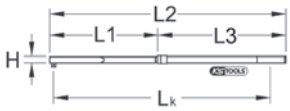
Serial number:
A permanent and unique serial number is applied on all torque wrenches, which provides unique product identification.

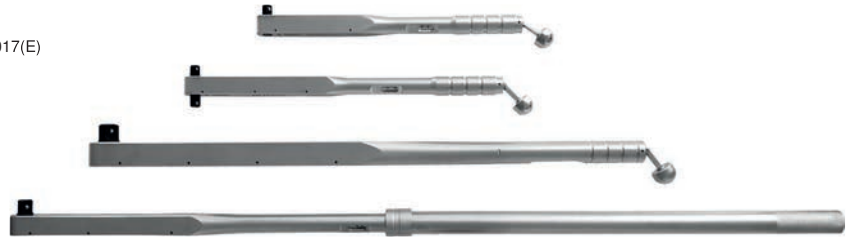
Tested and Certified to DIN EN ISO 6789 Certificate Precision +/-3%

Accuracy of
±3 %
of the scale reading
Precise reading accuracy
for a minimum 5,000 tightening cycles

ALUTORQUE*precision* torque wrench

- Release accuracy: ±3 % tolerance from the set scale value and better
- Use is almost all industrial production areas
- Depending on option with fast release function button
- Depending on option with robust ratchet mechanism
- Simple operation - fast and secure torque tightening
- Simple and/or double square for controlled fastening in clockwise and counter clockwise directions
- Double-scale Nm and lbf-ft and/or lbf-in division for precise adjustment
- An audible and palpable signal when the desired torque value is achieved
- Secure locking possibility
- Ergonomic and hand-friendly handle
- Light, robust and very workshop friendly
- Long service-life and high holding times
- Highest precision and reliability even under tough long-term use
- Setting the torque by using the captive crank lever mechanism in the handle
- Comfortable setting through shapely, captive adjustment knob on the end of the handle
- Extendible to reduces the workload of the user
- Extremely low wear through force reductions through lever mechanism
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Individually marked with serial number - unique product identification
- including calibration declaration of conformity according to DIN EN ISO 6789:2017(E) - traceable to national standards





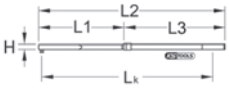
1/2" 3/4" 1"

			N·m	Division N·m	lbf·ft	Division lbf·ft	L mm	H mm	L1 mm	L2 mm	L3 mm		kg
516.5034		1/2”	25-120	5,00	18-90	5,0	374	30,0	462,0	475,0			1,50
516.5035		1/2”	25-120	5,00	18-90	5,0	374	30,0	462,0	475,0			1,50
516.5036		1/2”	40-200	5,00	30-150	5,0	463	30,0	551,0	563,0			1,40
516.5037		1/2”	40-200	5,00	30-150	5,0	463	30,0	551,0	563,0			1,30
516.5039		1/2”	60-300	5,00	45-220	5,0	529	30,0	617,0	625,0			2,00
516.5040		1/2”	60-300	5,00	45-220	5,0	529	30,0	671,0	625,0			2,00
516.5043		3/4”	110-550	10,00	80-400	10,0	719	35,0	812,0	827,0			2,90
516.5044		3/4”	110-550	10,00	80-400	10,0	719	35,0	812,0	827,0			2,90
516.5045		3/4”	140-760	10,00	115-560	10,0	719	35,0	812,0	827,0			3,20
516.5046		3/4”	155-760	10,00	115-560	10,0	719	35,0	812,0	827,0			3,20
516.5049		3/4”	520-1000	10,00	380-730	10,0	1297	35,0	812,0	1413,0	762,0	516.5059	5,60
516.5050		3/4”	520-1000	10,00	380-730	10,0	1297	35,0	812,0	1413,0	762,0	516.5059	5,60
516.5051		1”	600-1500	25,00			1473	40,0	932,0	1608,0	925,0	516.5058	10,80
516.5052		1”	600-1500	25,00			1473	40,0	932,0	1608,0	925,0	516.5058	10,80
516.5053		1”	750-2000	50,00			2218	40,0	932,0	2353,0	925,0	516.5057+58	11,60
516.5054		1”	750-2000	50,00			2218	40,0	932,0	2353,0	925,0	516.5057+58	11,60

ALUTORQUE*precision* TORQUE WRENCH

ALUTORQUE*precision* Pre-set torque wrench

- Release accuracy: ±3 % tolerance from the set scale value and better
- Use is almost all industrial production areas
- Depending on option with fast release function button
- Simple operation - fast and secure torque tightening
- Simple and/or double square for controlled fastening in clockwise and counter clockwise directions
- Double-scale Nm and lbf-ft and/or lbf-in division for precise adjustment
- An audible and palpable signal when the desired torque value is achieved
- Secure locking possibility
- Ergonomic and hand-friendly handle
- Light, robust and very workshop friendly
- Long service-life and high holding times
- Highest precision and reliability even under tough long-term use
- Setting the torque by using the captive crank lever mechanism in the handle
- Comfortable setting through shapely, captive adjustment knob on the end of the handle
- Extendible to reduces the workload of the user
- Extremely low wear through force reductions through lever mechanism
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Individually marked with serial number - unique product identification
- including calibration declaration of conformity according to DIN EN ISO 6789:2017(E) - traceable to national standards



1/2" 3/4" 1"

			N·m	Division N·m	lbf·ft	Division lbf·ft	L mm	H mm	L1 mm	L2 mm	L3 mm	kg	
516.5104		1/2"	25-120	5,00	18-90	5,0	374	30,0	462,0			1,50	
516.5105		1/2"	25-120	5,00	18-90	5,0	374	30,0	462,0			1,50	
516.5106		1/2"	40-200	5,00	30-150	5,0	463	30,0	551,0			1,40	
516.5107		1/2"	40-200	5,00	30-150	5,0	463	30,0	551,0			1,30	
516.5108		1/2"	60-300	5,00	45-220	5,0	529	30,0	617,0			2,00	
516.5109		1/2"	60-300	5,00	45-220	5,0	529	30,0	617,0			2,00	
516.5112		3/4"	110-550	10,00	80-400	10,0	719	35,0	812,0			2,90	
516.5113		3/4"	110-550	10,00	80-400	10,0	719	35,0	812,0			2,90	
516.5114		3/4"	155-760	10,00	115-560	10,0	719	35,0	812,0			3,20	
516.5115		3/4"	155-760	10,00	115-560	10,0	719	35,0	812,0			3,20	
516.5118		3/4"	520-1000	10,00	380-730	10,0	1297	35,0	812,0	1413,0	762,0	5,60	
516.5119		3/4"	520-1000	10,00	380-730	10,0	1297	35,0	812,0	1413,0	762,0	5,60	
516.5121		1"	600-1500	25,00			1473	40,0	932,0	1608,0	925,0	10,80	
516.5120		1"	600-1500	25,00			1473	40,0	932,0	1608,0	925,0	10,80	
516.5122		1"	750-2000	50,00			2218	40,0	932,0	2353,0	925,0	11,60	
516.5123		1"	750-2000	50,00			2218	40,0	932,0	2353,0	925,0	11,60	

ALUTORQUE*precision* Socket pipe for torque wrench

- To reach the high torque values easier with the lever arm extension
- Option and secure connection to the aluminium torque wrench
- To extend the lever arm
- Made of zinc coated steel

	L mm	Suitable for	kg	
516.5056	400,0	516.5053	2,30	
516.5057	745,0	516.5053, 516.5055	3,60	
516.5058	762,0	516.5047, 516.5049	0,80	

ALUTORQUE*precision* aluminium extension pipe for torque wrench

- To reach the high torque values easier with the lever arm extension
- Option and secure connection to the aluminium torque wrench
- To extend the lever arm
- With slightly anodised clamping nut
- Made of aluminium

	L mm	Suitable for	kg	
516.5059	925,0	516.5051, 516.5053, 516.5055	3,40	

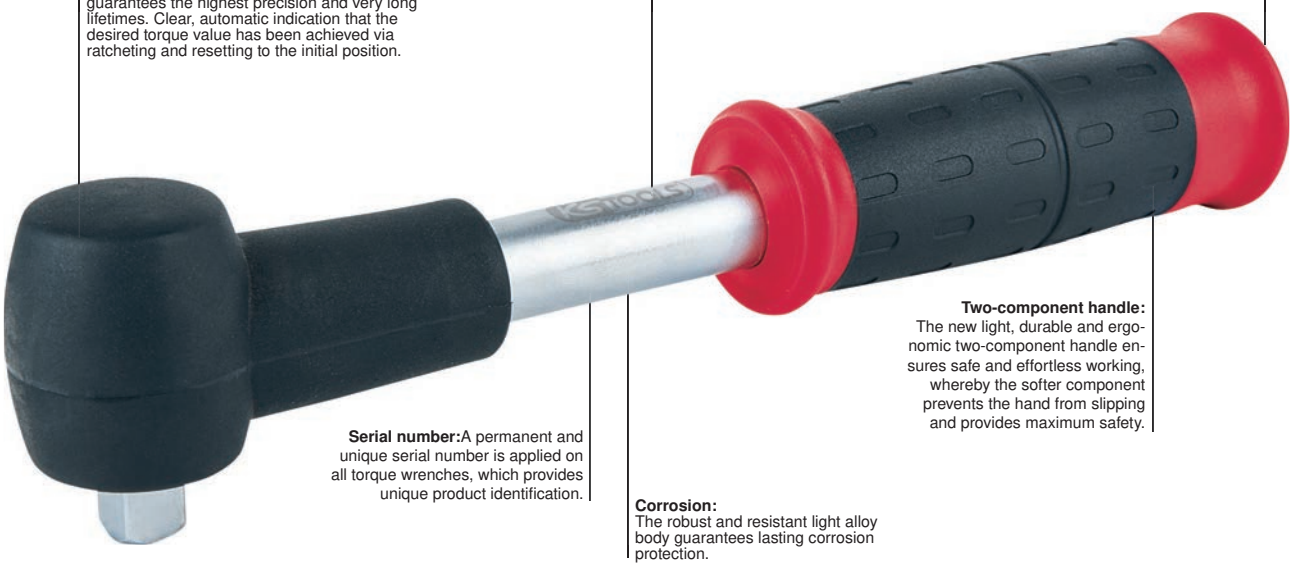
SLIPPER TORQUE WRENCH

Fixed preset ratchet torque wrench without scale with automatic trigger via slipping function – no overtightening possible.

Accuracy of
±4 %
of the scale reading

Head:
A highly robust 36-teeth ratchet mechanism for fastening is integrated in the powder coated ratchet head. A robust ball end mechanism guarantees the highest precision and very long lifetimes. Clear, automatic indication that the desired torque value has been achieved via ratcheting and resetting to the initial position.

Handle: Ergonomic handle designed for comforatble use



Two-component handle:
The new light, durable and ergonomic two-component handle ensures safe and effortless working, whereby the softer component prevents the hand from slipping and provides maximum safety.

Serial number:A permanent and unique serial number is applied on all torque wrenches, which provides unique product identification.

Corrosion:
The robust and resistant light alloy body guarantees lasting corrosion protection.

Tested and Certified to
DIN EN ISO 6789
Certificate
Precision
+/-4%

Ratcheting operating principle

When a preset value is achieved the mechanism slips over the ball end (without the possibility of overtightening).
The ratcheting torque wrench can then be used immediately again.

TECHNOLOGY

Pre-set Slipper torque wrench

- Release accuracy ±4% Tolerance from the set scale value and better
- Precise reading accuracy for a minimum 5.000 tightening cycles
- For serial and/or conveyor assembly lines
- For controlled fastening in a clockwise direction
- Clearly noticeable torque release signal through ratchet
- It is not possible to over tighten the set value
- Automatic reset in the initial position
- Without scale - with a fixed adjustable value
- Long service-life and high holding times
- Highest precision and reliability even under tough long-term use
- Ergonomic and hand-friendly rubber handle
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Individually marked with serial number - unique product identification
- including calibration declaration of conformity according to DIN EN ISO 6789:2017(E) - traceable to national standards
- Delivery includes crank adjusting key

1/4" 3/8" 1/2"

	■	Measuring range N·m	lbf·ft	L mm	D mm	H mm	kg	
516.5000	1/4"	1-5	0,8-4	182,5	15,5	34,3	0,22	
516.5001	1/4"	4-10	3-8	182,5	15,5	34,3	0,23	
516.5002	3/8"	5-20	4-19	214,0	35,0	49,5	0,48	
516.5003	3/8"	15-55	11-40	323,0	39,0	58,5	1,00	
516.5004	1/2"	25-125	19-93	464,0	40,0	67,3	1,85	

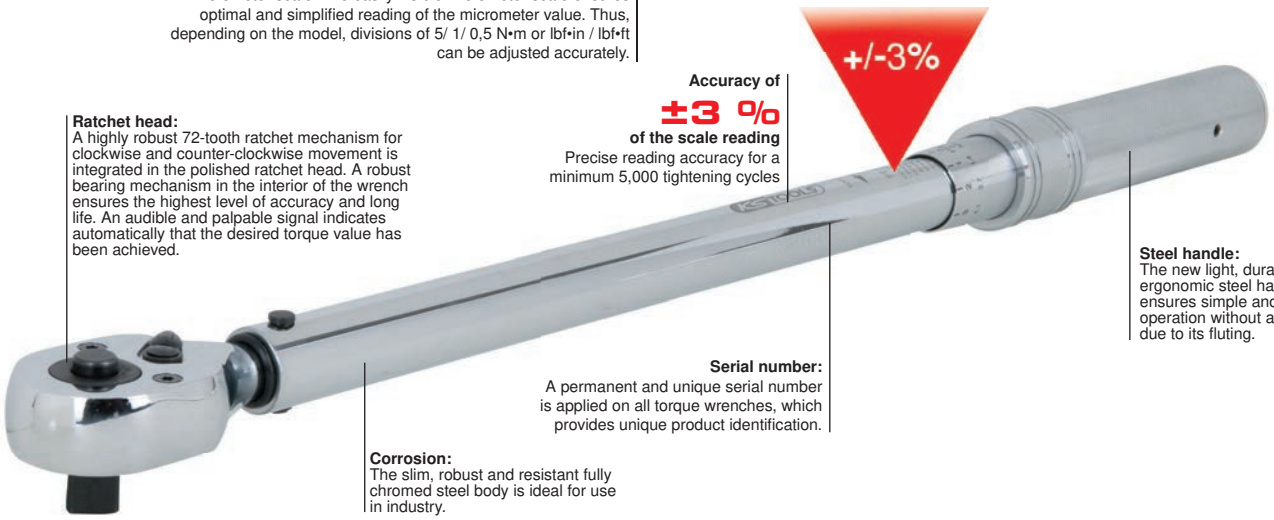
INDUSTRIAL TORQUE WRENCH

Torque wrench made from fully chromed, slim steel construction for clockwise and counter clockwise movement

Scale:
A double scale having N•m Lbf•in and Lbf•ft divisions that can be read easily, is concealed under the chromed steel pipe which enables particularly accurate adjustment of the desired torque value.

Handle end:
The desired torque can be adjusted and set by simply pulling out and pushing in the rotating assembly..

Micrometer scale:
Very precise adjustments can be made with the help of the white micrometer scale. The easily visible micrometer scale ensures optimal and simplified reading of the micrometer value. Thus, depending on the model, divisions of 5/ 1/ 0,5 N•m or lbf•in / lbf•ft can be adjusted accurately.



Accuracy of
±3 %
of the scale reading
Precise reading accuracy for a minimum 5,000 tightening cycles

Ratchet head:
A highly robust 72-tooth ratchet mechanism for clockwise and counter-clockwise movement is integrated in the polished ratchet head. A robust bearing mechanism in the interior of the wrench ensures the highest level of accuracy and long life. An audible and palpable signal indicates automatically that the desired torque value has been achieved.

Steel handle:
The new light, durable and ergonomic steel handle ensures simple and secure operation without any wear due to its fluting.

Serial number:
A permanent and unique serial number is applied on all torque wrenches, which provides unique product identification.

Corrosion:
The slim, robust and resistant fully chromed steel body is ideal for use in industry.

Tested and Certified to DIN EN ISO 6789 Certificate Precision +/-3%

Industrial torque wrench with reversible ratchet head

- Release accuracy: ±3 % tolerance from the set scale value and better
- Precise reading accuracy for a minimum 5.000 tightening cycles
- Use is almost all industrial production areas
- For controlled fastening in clockwise and counter clockwise directions
- Double-scale Nm and lbf-ft and/or lbf-in division
- including a micrometre scale in Nm divisions and lbf-ft and/or lbf-in for precise and fine adjustment
- Clearly audible and noticeable torque release sign
- Exact gearing 72 teeth ratchet mechanism
- With ejection mechanism on the ratchet head
- Setting the torque securely by turning the handle
- Secure locking function within the handle
- Long service-life and high holding times
- Highest precision and reliability even under tough long-term use
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Individually marked with serial number - unique product identification
- including calibration declaration of conformity according to DIN EN ISO 6789:2017(E) - traceable to national standards

1/4" 3/8" 1/2" 3/4" 1"

	■	Measuring range N•m	Tooth	Division N•m	lbf•in	lbf•ft	Division lbf•in	Division lbf•ft	D mm	L mm	kg
516.5150	1/4"	1-6	64	0,05	11.1-50.9		0,4		26,0	210,0	0,51
516.5151	1/4"	3-15	64	0,10	31-128		0,9		26,0	210,0	0,51
516.5152	1/4"	5-25	64	0,20	53-212		1,8		26,0	248,0	0,33
516.5153	3/8"	10-60	32	0,50		9.2-42.4		0,4	36,5	370,0	1,26
516.5154	3/8"	20-100	32	0,50		16.6-71.9		0,4	36,5	433,0	1,02
516.5155	1/2"	40-200	32	1,00		33-144		0,7	43,5	530,0	1,65
516.5156	1/2"	60-340	32	2,00		52-243		1,5	43,5	610,0	1,80
516.5157	3/4"	100-600	24	5,00		92-424		7,4	63,5	1050,0	4,97
516.5158	3/4"	150-800	24	5,00		129-572		7,4	63,5	1240,0	6,05
516.5159	3/4"	200-1000	24	5,00		166-719		7,4	63,5	1240,0	6,05
516.5160	1"	300-1500	24	10,00		258-1070		14,7	70,0	1850,0	10,51

Industrial torque wrench with plug-in tool holder

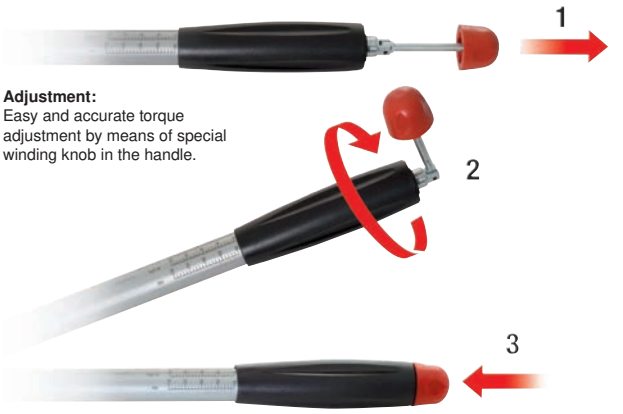
- Release accuracy: ±3 % tolerance from the set scale value and better
- Precise reading accuracy for a minimum 5.000 tightening cycles
- Use is almost all industrial production areas
- For controlled fastening in clockwise and counter clockwise directions
- Double-scale Nm and lbf-ft and/or lbf-in division
- including a micrometre scale in Nm divisions and lbf-ft and/or lbf-in for precise and fine adjustment
- Clearly audible and noticeable torque release sign
- Setting the torque securely by turning the handle
- Secure locking function within the handle
- Long service-life and high holding times
- Highest precision and reliability even under tough long-term use
- With lock connector for 9x12 and/or 14x18 plug-in tools
- Individually marked with serial number - unique product identification
- including calibration declaration of conformity according to DIN EN ISO 6789:2017(E) - traceable to national standards

9x12 mm 14x18 mm

	□	Measuring range N•m	Division N•m	lbf•in	lbf•ft	Division lbf•in	Division lbf•ft	L mm	L_1 mm	S_1 mm	kg
516.5063	9x12	1-6	0,05	11.1-50.9		0,4		197,0	183	17,5	0,46
516.5061	9x12	3-15	0,10	31-128		0,4		197,0	183	17,5	0,26
516.5062	9x12	5-25	0,20	53-212		0,4		227,0	213	17,5	0,30
516.5064	9x12	10-60	0,50		9.2-42.4		0,4	340,0	373	17,5	1,30
516.5065	9x12	20-100	0,50		16.6-71.9		0,4	403,0	373	17,5	1,30
516.5066	14x18	10-60	0,50		9.2-42.4		0,4	362,0	402,5	25,0	1,30
516.5067	14x18	20-100	0,50		16.6-71.9		0,4	425,0	402,5	25,0	1,30
516.5068	14x18	40-200	1,00		33-144		0,7	503,0	474	25,0	1,45
516.5069	14x18	60-340	2,00		52-243		1,5	583,0	554	25,0	1,60

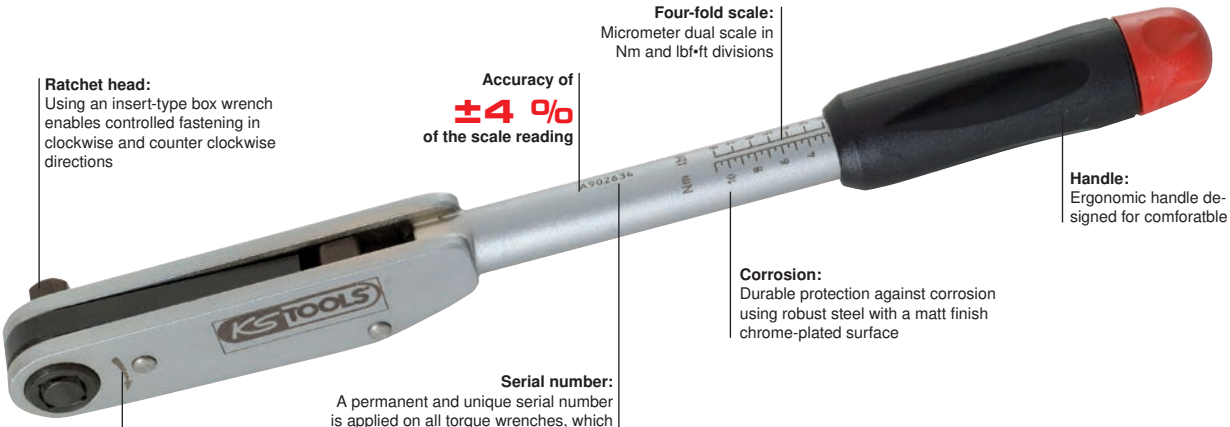
TORQUE WRENCH WITH CLOSE-GAP RELEASE

As a result of the close-gap release, the chance of over-tightening is reduced and, in addition, this mechanism enhances the accuracy when fastening the screw. A palpable and acoustic snap indicates that the desired torque value has been achieved - in addition the mechanism resets automatically to the initial position.



Adjustment:
Easy and accurate torque adjustment by means of special winding knob in the handle.

CLOCKWISE FASTENING ✔ COUNTER CLOCKWISE FASTENING



Four-fold scale:
Micrometer dual scale in Nm and lbf•ft divisions

Ratchet head:
Using an insert-type box wrench enables controlled fastening in clockwise and counter clockwise directions

Accuracy of
±4 %
of the scale reading

Handle:
Ergonomic handle designed for comforatble use

Corrosion:
Durable protection against corrosion using robust steel with a matt finish chrome-plated surface

Serial number:
A permanent and unique serial number is applied on all torque wrenches, which provides unique product identification.

Signal:
An audible and palpable snap indicates that the desired torque has been achieved

Tested and Certified to DIN EN ISO 6789 Certificate Precision +/-4%

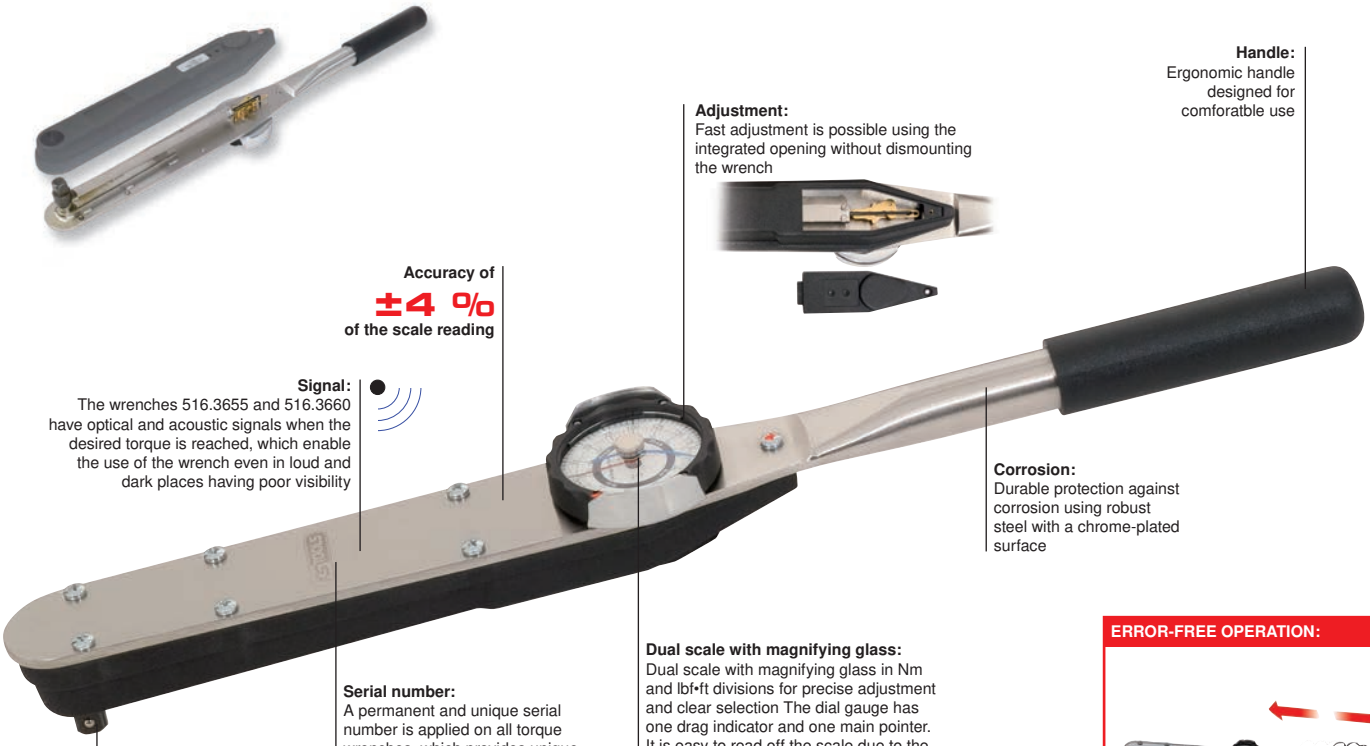
Torque wrench with close gap release

- Actuation accuracy: ±4 % tolerance of the set scale value
- Precise reading accuracy for a minimum 5.000 tightening cycles
- For controlled fastening in clockwise and counter clockwise directions
- The direction of rotation (clockwise and counter clockwise) can be changed by simply rotating the square drive piece
- Four fold scale in Nm, Kg•fm, lbf•in und lbf•ft divisions for precise adjustment
- An audible and palpable signal when the desired torque value is achieved
- Torque setting is easy by pulling out, adjusting and pushing in the winder in the handle
- Secure locking possibility
- Ergonomic handle designed for comfortable use
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Individually marked with serial number - unique product identification
- including calibration declaration of conformity according to DIN EN ISO 6789:2017(E) - traceable to national standards

1/4" 3/8" 1/2" 3/4" 1"

	■	N·m	lbf·ft	Division N·m	Division lbf·ft	L mm	kg	
516.3510	3/8"	2.5-11	2 - 8	0,50	0,5	300,0	0,56	
516.3515	3/8"	5-33	4 - 24	1,00	1,0	405,0	0,69	
516.3520	3/8"	12-68	10 - 50	2,00	2,0	480,0	1,00	
516.3525	1/2"	12-68	10 - 50	2,00	2,0	480,0	1,00	
516.3530	1/2"	25-150	20 - 110	5,00	2,0	575,0	1,70	
516.3535	1/2"	50-250	40 - 180	10,00	5,0	605,0	2,30	
516.3540	1/2"	70-350	50 - 260	10,00	10,0	815,0	3,00	
516.3545	3/4"	140-800	120 - 580	20,00	20,0	935,0	6,50	
516.3550	1"	200-1000	150 - 750	25,00	25,0	1030,0	9,70	
516.3555	1"	500-2000	350 - 1500	50,00	50,0	1400,0	18,00	

PRECISION TORQUE TESTING INSTRUMENT WITH DIAL INDICATOR



Handle:
Ergonomic handle designed for comforatble use

Adjustment:
Fast adjustment is possible using the integrated opening without dismounting the wrench

Accuracy of
±4 %
of the scale reading

Signal:
The wrenches 516.3655 and 516.3660 have optical and acoustic signals when the desired torque is reached, which enable the use of the wrench even in loud and dark places having poor visibility

Corrosion:
Durable protection against corrosion using robust steel with a chrome-plated surface

Serial number:
A permanent and unique serial number is applied on all torque wrenches, which provides unique product identification.

Ratchet head:
Fixed box wrench for controlled fastening in clockwise and counter clockwise directions.

Dual scale with magnifying glass:
Dual scale with magnifying glass in Nm and lbf•ft divisions for precise adjustment and clear selection The dial gauge has one drag indicator and one main pointer. It is easy to read off the scale due to the clear design.

Tested and Certified to DIN EN ISO 6789 Certificate Precision +/-4%

ERROR-FREE OPERATION:

Using the torsion bar principle, and in contrast to conventional torque wrenches, it is possible to grip the torque wrench in any position, either using both hands or with an extension bar.
Any shift in the value is ruled out thanks to the direct measurement at the wrench head.

Dial Torque wrench with a drag indicator

- Display accuracy: ±4 % tolerance of the set scale value
- Precise reading accuracy for a minimum 5.000 tightening cycles
- For controlled display in a clockwise and counter clockwise direction
- Display type torque wrench with dial indicator and drag indicator
- Double scale in Nm and lbf•ft divisions for precise adjustment
- Large vision panel for precise adjustment
- Ergonomic designed handle provides secure transmission of the torque
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Individually marked with serial number - unique product identification
- including calibration declaration of conformity according to DIN EN ISO 6789:2017(E) - traceable to national standards

1/4" 3/8" 1/2" 3/4" 1"

	■	N·m	In·lb	lbf·ft	Division N·m	Division In·lb	Division lbf·ft	L mm	Signal	kg	
516.3610	1/4"	0,7-3,5	6-30		0,10	1,0		270,0	-	0,73	
516.3615	1/4"	1,8-9	15-75		0,20	1,0		270,0	-	0,73	
516.3620	3/8"	3,6-18	30-150		0,50	2,0		270,0	-	0,73	
516.3625	3/8"	6-30	50-250		0,50	5,0		270,0	-	0,73	
516.3630	3/8"	14-70		10-50	2,00		1,0	270,0	-	0,73	
516.3635	1/2"	50-250		34-170	5,00		5,0	560,0	-	1,40	
516.3640	1/2"	70-350		50-250	10,00		5,0	560,0	-	1,40	
516.3645	3/4"	96-480		70-350	10,00		10,0	675,0	-	3,20	
516.3650	3/4"	160-800		120-600	25,00		10,0	1180,0	-	4,50	
516.3655	1"	280-1400		200-1000	25,00		20,0	1970,0	+	9,00	
516.3660	1"	560-2800		400-2000	50,00		40,0	3200,0	+	21,00	

PUSH-FIT TOOLS - ACCESSORIES

We have a diverse range of plug-in tools within our range:

- Open
- Ring
- Ratchet
- Torx®
- Push-fit square mount
- Bit holder

In case our range does not have what you need, we would be pleased to manufacture push-fit tools based on your specifications.





CAUTION:
The maximum torque loads of the push-fit tools are in line with DIN 899 and can be less than the maximum torque of the tool used.

INFO:

In case our range does not have what you need, we would be pleased to manufacture push-fit tools based on your specifications.

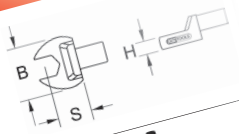

CALCULATION OF CORRECTED DISPLAY AND SET VALUES

9x12 mm | 14x18 mm

	□	N•m	lbf•ft	Division N•m	L mm	L_k mm	S_k mm	
516.1633	14 x 18	20 - 100	8 - 75	0.5	375.0	335,0	17,5	1020
516.1642	9 x 12	40 - 200	15 - 150	1.0	465.0	425,0	17,5	850
516.1652	14 x 18	40 - 200	15 - 150	1.0	470.0	435,0	25,0	900
516.1672	14 x 18	60 - 320	45 - 236	1.0	565.0	530,0	25,0	1200
516.1682	14 x 18	80 - 420	60 - 310	1.0	650.0	435,0	25,0	1600

Push-fit jaw wrench

- With a locking pin
- Chrome-plated

14x18 mm

	□	mm	S mm	B mm	H mm	
516.2213	14 x 18	13	25,0	30.0	7.0	120
516.2214	14 x 18	14	25,0	35.0	8.0	120
516.2215	14 x 18	15	25,0	35.0	8.0	120
516.2216	14 x 18	16	25,0	38.0	9.0	125
516.2217	14 x 18	17	25,0	38.0	9.0	130
516.2218	14 x 18	18	25,0	42.0	10.0	130
516.2219	14 x 18	19	25,0	42.0	10.0	130
516.2221	14 x 18	21	25,0	50.0	11.0	155
516.2222	14 x 18	22	25,0	50.0	11.0	150
516.2224	14 x 18	24	27,5	53.0	12.0	170
516.2226	14 x 18	26	30,0	60.0	13.0	180
516.2227	14 x 18	27	30,0	60.0	13.0	185
516.2229	14 x 18	29	30,0	66.0	14.0	210
516.2230	14 x 18	30	30,0	66.0	14.0	220
516.2232	14 x 18	32	32,5	66.0	14.0	239
516.2234	14 x 18	34	32,5	66.0	14.0	246
516.2236	14 x 18	36	32,5	74.0	15.0	265
516.2238	14 x 18	38	32,5	74.0	15.0	275
516.2241	14 x 18	41	32,5	82.0	15.0	307

Example: 516.2232 + 516.1672

Desired torque = 230 N•m

$$X_w = \frac{P_d \cdot L_k}{L_k - S_k + S} = \frac{230\ N\cdot m \cdot 530\ mm}{530\ mm - 25\ mm + 32{,}5\ mm} = \frac{121900}{537{,}5} = 226{,}8\ N\cdot m$$

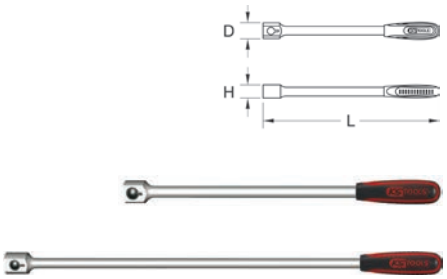
Corrected set value: **226,8 N•m**

PUSH FIT TOOLS

CAUTION:
The maximum torque loads of the push-fit tools are in line with DIN 899 and can be less than the maximum torque of the tool used.

ERGOTORQUE®*plus* universal wrench without torque function - with retangular tool holder

- Ideal for loosening jammed screw connections
- Can untighten without any torque restraint
- Made of solid material
- Two component handle with a soft zone, is ergonomic in design and comfortable in the hand
- Snap lock tool holder available for replaceable 9x12 or 14x18 end tools

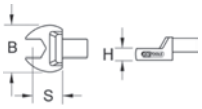


9x12 mm | 14x18 mm

	□	L mm	D mm	H mm	g
516.4890	9x12	405,0	26,0	20,0	872
516.4895	14x18	635,0	28,0	26,0	1350

Push fit flared wrench

- With a locking pin
- Chrome plated



9x12 mm

	□	⬢ mm	S mm	B mm	H mm	g
516.2107	9x12	7	17,5	22,0	5,0	35
516.2108	9x12	8	17,5	22,0	5,0	35
516.2109	9x12	9	17,5	26,0	5,5	35
516.2110	9x12	10	17,5	26,0	5,5	35
516.2111	9x12	11	17,5	26,0	5,5	35
516.2112	9x12	12	17,5	30,0	7,0	35
516.2113	9x12	13	17,5	30,0	7,0	35
516.2114	9x12	14	17,5	35,0	8,0	40
516.2115	9x12	15	17,5	35,0	8,0	40
516.2116	9x12	16	20,0*	38,0	8,5	45
516.2117	9x12	17	20,0*	38,0	8,5	50
516.2118	9x12	18	20,0*	42,0	9,0	60
516.2119	9x12	19	20,0*	42,0	9,0	60

Push fit ring spanner (box wrench)

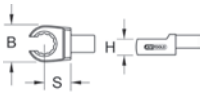
- With a locking pin
- Chrome plated

9x12 mm

	□	⬢ mm	S mm	B mm	H mm	g
516.2307	9x12	7	17,5	13,0	8,0	30
516.2308	9x12	8	17,5	14,2	8,0	30
516.2310	9x12	10	17,5	17,2	9,0	30
516.2311	9x12	11	17,5	18,5	9,0	30
516.2312	9x12	12	17,5	20,0	12,0	35
516.2313	9x12	13	17,5	21,5	12,0	35
516.2314	9x12	14	17,5	23,0	12,0	40
516.2315	9x12	15	17,5	24,2	12,0	40
516.2316	9x12	16	17,5	25,7	13,0	40
516.2317	9x12	17	17,5	27,2	13,0	40
516.2318	9x12	18	17,5	28,5	13,0	40
516.2319	9x12	19	17,5	30,3	13,0	40
516.2321	9x12	21	17,5	33,0	15,0	50
516.2322	9x12	22	17,5	34,5	15,0	50

Open push fit ring spanner (box wrench)

- With a locking pin
- Chrome plated

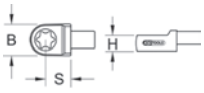


9x12 mm

	□	⬢ mm	S mm	B mm	g
516.2510	9x12	10	17,5	21,0	40
516.2511	9x12	11	17,5	22,5	40
516.2512	9x12	12	17,5	23,7	40
516.2513	9x12	13	17,5	25,2	40
516.2514	9x12	14	17,5	27,0	50
516.2517	9x12	17	17,5	31,5	65
516.2518	9x12	18	17,5	33,0	65
516.2519	9x12	19	17,5	34,5	65
516.2522	9x12	22	20,0*	39,0	65

Torx-E push fit ring spanner (box wrench)

- With a locking pin
- Chrome plated

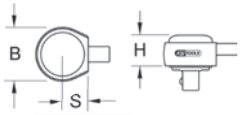


9x12 mm

	□	⬢	S mm	B mm	H mm	g
516.3006	9x12	E 6	17,5	13,0	8,0	40
516.3008	9x12	E 8	17,5	14,2	8,0	45
516.3010	9x12	E 10	17,5	17,2	9,0	50
516.3012	9x12	E 12	17,5	18,5	9,0	50
516.3014	9x12	E 14	17,5	21,5	10,0	60

Push fit fine toothed reversible ratchet head

- With a locking pin
- Fine toothed
- With release feature
- Chrome plated



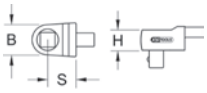
9x12 mm

1/4" 3/8" 1/2"

	□	■	S mm	B mm	H mm	g
516.2614	9x12	1/4"	17,5	27,0	25,0	75
516.2638	9x12	3/8"	17,5	35,0	35,0	152
516.2612	9x12	1/2"	17,5	43,0	40,0	228

Push fit square mount

- With a locking pin
- Chrome plated



9x12 mm

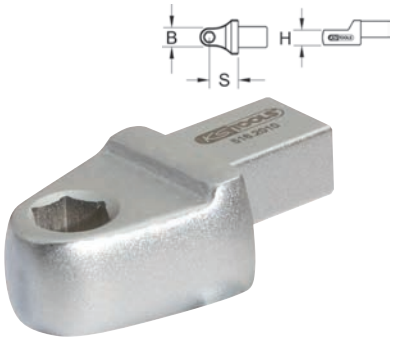
1/4" 3/8" 1/2"

	□	■	S mm	B mm	H mm	g
516.2814	9x12	1/4"	17,5	20,0	14,0	70
516.2838	9x12	3/8"	17,5	20,0	14,0	76
516.2812	9x12	1/2"	17,5	20,0	14,0	80

* Please note the changed values on the torque wrench!

Push fit bit holder

- With a locking pin
- Chrome plated



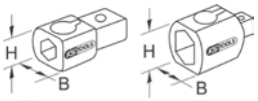
9x12 mm

5/16" 1/4"

	□	○	S mm	B mm	H mm	
516.2005	9x12	1/4"	17,5	14,0	10,0	47
516.2010	9x12	5/16"	17,5	16,0	12,5	47

Push fit jaw wrench

- Snap lock tool holder available for replaceable 9x12 or 14x18 end tools
- With a locking pin
- Chrome plated

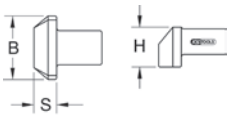


9x12 mm 14x18 mm

	□	■	S mm	B mm	H mm	
516.2040	9x12	14 x 18	30,5*	31,0	26,0	120
516.2050	14x18	9 x 12	27,0*	28,0	21,0	120

Push fit weld on head

- With a locking pin
- Burnished

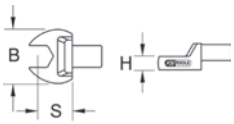


9x12 mm 14x18 mm

	□	Weld dimension mm	S mm	B mm	H mm	
516.2060	9x12	8 x 14	14,5*	14,0	14,5	47
516.2070	14x18	11 x 25	12,0*	25,0	21,5	100

Push fit flared wrench

- With a locking pin
- Chrome plated

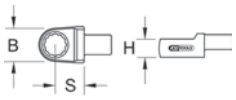


14x18 mm

	□	⬢ mm	S mm	B mm	H mm	
516.2213	14x18	13	25,0	30,0	7,0	120
516.2214	14x18	14	25,0	35,0	8,0	120
516.2215	14x18	15	25,0	35,0	8,0	120
516.2216	14x18	16	25,0	38,0	9,0	125
516.2217	14x18	17	25,0	38,0	9,0	130
516.2218	14x18	18	25,0	42,0	10,0	130
516.2219	14x18	19	25,0	42,0	10,0	130
516.2221	14x18	21	25,0	50,0	11,0	155
516.2222	14x18	22	25,0	50,0	11,0	160
516.2224	14x18	24	27,5*	53,0	12,0	170
516.2226	14x18	26	30,0*	60,0	13,0	180
516.2227	14x18	27	30,0*	60,0	13,0	185
516.2229	14x18	29	30,0*	66,0	14,0	210
516.2230	14x18	30	30,0*	66,0	14,0	220
516.2232	14x18	32	32,5*	66,0	14,0	239
516.2234	14x18	34	32,5*	66,0	14,0	246
516.2236	14x18	36	32,5*	74,0	15,0	265
516.2238	14x18	38	32,5*	74,0	15,0	275
516.2241	14x18	41	32,5*	82,0	15,0	307

Push fit ring spanner (box wrench)

- With a locking pin
- Chrome plated

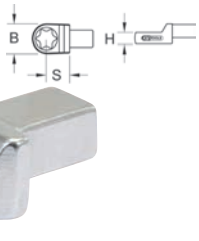


14x18 mm

	□	⬢ mm	S mm	B mm	H mm	
516.2413	14x18	13	25,0	21,5	11,0	120
516.2414	14x18	14	25,0	23,0	11,0	120
516.2415	14x18	15	25,0	24,2	11,0	115
516.2416	14x18	16	25,0	25,7	12,0	125
516.2417	14x18	17	25,0	27,2	12,0	125
516.2418	14x18	18	25,0	28,5	12,0	125
516.2419	14x18	19	25,0	30,5	12,0	125
516.2421	14x18	21	25,0	33,0	15,0	140
516.2422	14x18	22	25,0	34,5	15,0	140
516.2424	14x18	24	25,0	37,5	15,0	140
516.2427	14x18	27	25,0	41,5	17,0	150
516.2430	14x18	30	25,0	45,0	19,0	160
516.2432	14x18	32	25,0	47,5	19,0	165
516.2434	14x18	34	28,0*	50,5	19,0	195
516.2436	14x18	36	28,0*	53,0	19,0	195
516.2441	14x18	41	30,0*	59,0	20,0	225

Torx-E Push fit ring spanner (box wrench)

- With a locking pin
- Chrome plated

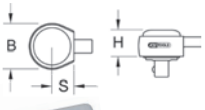


14x18 mm

	□	⬡	S mm	B mm	H mm	
516.3114	14x18	E 14	25,0	22,5	11,0	130
516.3118	14x18	E 18	25,0	24,0	11,0	135
516.3120	14x18	E 20	25,0	29,0	13,0	150
516.3124	14x18	E 24	25,0	30,5	13,0	150

Push fit fine toothed reversible ratchet head

- With a locking pin
- Fine toothed
- With release feature
- Chrome plated

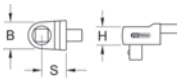


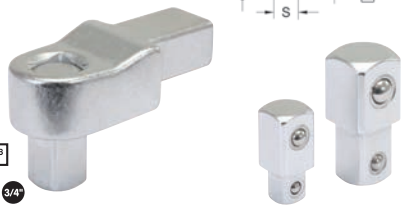
14x18 mm 1/2" 3/4"

	□	■	S mm	B mm	H mm	
516.2712	14x18	1/2"	25,0	43,0	43,0	260
516.2734	14x18	3/4"	25,0	70,0	60,0	795

Push fit square mount

- With a locking pin
- Chrome plated





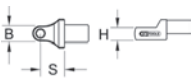
14x18 mm

1/2" 3/4"

	□	■	S mm	B mm	H mm	
516.2912	14x18	1/2"	25,0	27,0	18,0	210
516.2934	14x18	3/4"	25,0	40,0	25,0	400

Push fit bit holder

- With a locking pin
- Chrome plated



14x18 mm

5/16"

	□	○	S mm	B mm	H mm	
516.2020	14x18	5/16"	25,0	16,0	12,5	115

* Please note the changed values on the torque wrench!

PUSH FIT TOOLKIT

ERGOTORQUE®precision Refrigeration/air conditioning torque wrench tool set 20 - 100 Nm

- Set contents ideal for air conditioning and refrigeration engineers
- Actuation accuracy: ±3 % tolerance of the set scale value
- Precise reading accuracy for a minimum 5.000 tightening cycles
- For controlled fastening in clockwise and counter clockwise directions
- Changing the operating direction takes place by turning the torque wrench
- Double scale in Nm and lbf•ft divisions for precise adjustment
- Includes micrometer scale in Nm divisions for precise and fine adjustment
- Large vision panel, precise adjustment using a magnifying glass
- An audible and palpable signal when the desired torque value is achieved
- Torque setting is quick and easy using the locking knob in the handle end
- Secure locking function within the handle
- Two component handle with a soft zone, is ergonomic in design and comfortable in the hand
- With snap lock retangular tool holder for 14x18 range of end tools
- Individually marked with serial number - unique product identification
- including certificate according to DIN EN ISO 6789:2017(E) - traceable to national standards

14x18 mm 1/2"

			kg
516.1225	8 pcs	ERGOTORQUE®precision Re-frigeration/air conditioning torque wrench tool set 20 - 100 Nm	3,40

1 x		20 - 100 N•m
6 x		17 - 22 - 24 - 26 - 27 - 29 mm
1 x		1/2“

Torque tool set with plug in tools

- Set contents for universal applications
- With snap lock retangular tool holder for 9x12 range of end tool
- Supplied in a metal carrying case with the tools clearly organised

9x12 mm 3/8"

			kg
516.1720	29 pcs	Torque tool set with plug in tools	2,20

1 x		5 - 50 N•m
11 x		7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 16 - 17 mm
10 x		7 - 8 - 10 - 11 - 12 - 13 - 14 - 15 16 - 17 mm
6 x		10 - 11 - 12 - 13 - 14 - 17 mm
1 x		3/8“

Torque tool set with plug in tools

- Set contents for universal applications
- With snap lock retangular tool holder for 14x18 range of end tools
- Supplied in a metal carrying case with the tools clearly organised

14x18 mm 1/2"

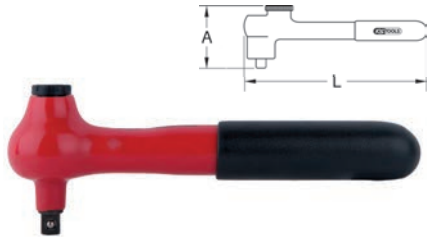
			kg
516.1730	31 pcs	Torque tool set with plug in tools	5,80

1 x		20 - 200 N•m
13 x		13 - 14 - 15 - 16 - 17 - 18 - 19 - 21 22 - 24 - 27 - 30 - 32 mm
16 x		13 - 14 - 15 - 16 - 17 - 18 - 19 - 21 22 - 24 - 27 - 30 - 32 - 34 - 36 - 41 mm
1 x		1/2“

VDE TORQUE WRENCH

Fixed torque wrench with protective insulation

- Actuation accuracy: ±4 % tolerance of the set scale value
- Precise reading accuracy for a minimum 5.000 tightening cycles
- For controlled fastening in a clockwise direction
- Can untighten without any torque restraint thanks to the anticlockwise latch
- An audible and palpable signal when the desired torque value is achieved
- Without scale - with a fixed adjustable value
- Hexagon socket holder in accordance with DIN 3126 - E6,3
- Individually marked with serial number - unique product identification
- including calibration declaration of conformity according to DIN EN ISO 6789:2017(E) - traceable to national standards

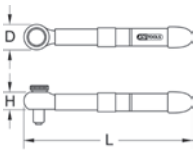


3/8" 1/2"

	■	N·m	A mm	L mm		kg
117.3922	3/8"	5-35	78,0	210,0	1000V	420
117.1001	1/2"	5-35	78,0	250,0	1000V	420

Mini torque wrench with protective insulation and reversible ratchet head

- Insulated handle to IEC 60900
- For working enviroment of voltages AC 1000 V and DC 1500 V
- Release accuracy: ±4 % tolerance from the set scale value and better
- Precise reading accuracy for a minimum 5.000 tightening cycles
- For controlled fastening in a clockwise direction
- Can untighten without any torque restraint thanks to the anticlockwise latch
- An audible and palpable signal when the desired torque value is achieved
- Exact gearing 30 teeth ratchet mechanism
- Ergonomic designed handle provides secure transmission of the torque
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Individually marked with serial number - unique product identification
- including calibration declaration of conformity according to DIN EN ISO 6789:2017(E) - traceable to national standards

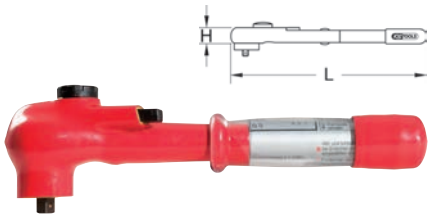


1/4" 3/8" 1/2"

	■	N·m	D mm	H mm	L mm		kg
117.1400	1/4"	2-12	40,0	41,0	200,0	1000V	400
117.1402	1/4"	5-25	40,0	41,0	200,0	1000V	420
117.1184	3/8"	5-25	40,0	42,0	200,0	1000V	440
117.1185	1/2"	5-25	40,0	42,0	200,0	1000V	440

Torque wrench with protective insulation and reversible ratchet head

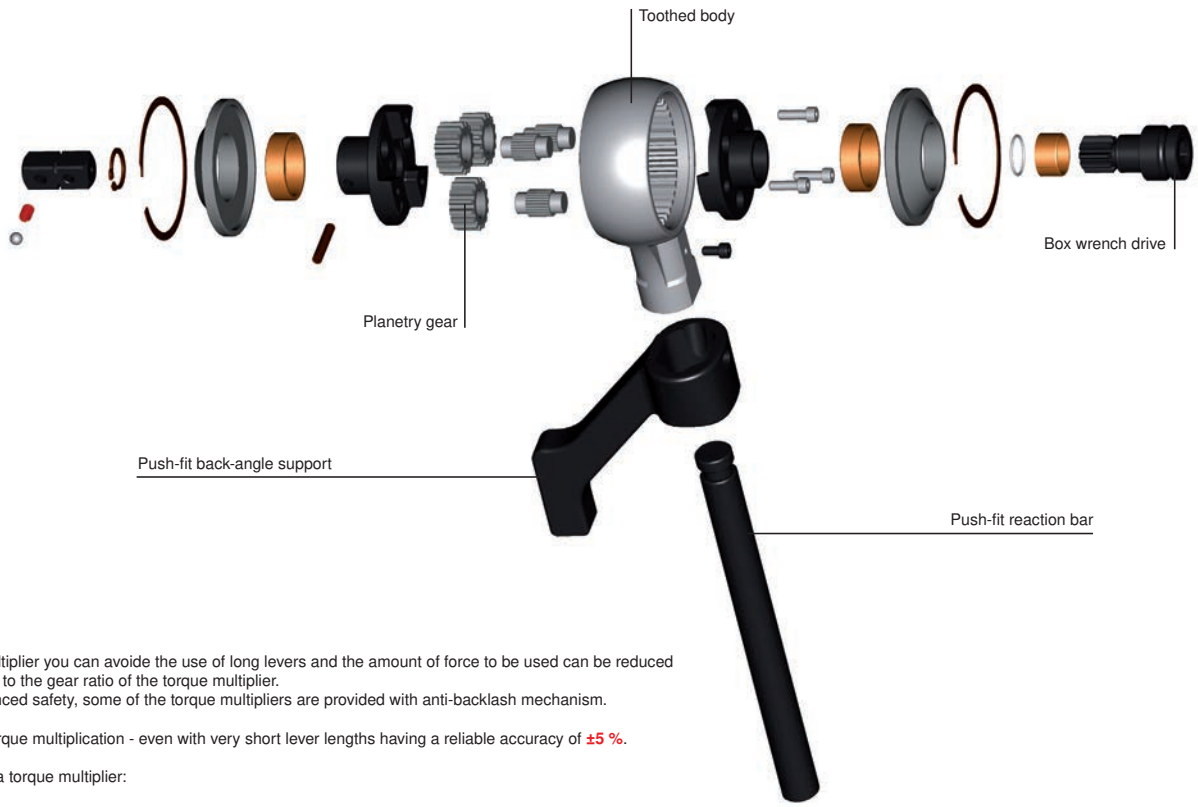
- Insulated handle to IEC 60900
- For working enviroment of voltages AC 1000 V and DC 1500 V
- Release accuracy: ±4 % tolerance from the set scale value and better
- Precise reading accuracy for a minimum 5.000 tightening cycles
- For controlled fastening in a clockwise direction
- Can untighten without any torque restraint thanks to the anticlockwise latch
- Scale in Nm divisions for precise adjustment
- Large vision panel for precise adjustment
- An audible and palpable signal when the desired torque value is achieved
- Exact gearing 30 teeth ratchet mechanism
- Torque setting is quick and easy using the locking knob in the handle end
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Individually marked with serial number - unique product identification
- including calibration declaration of conformity according to DIN EN ISO 6789:2017(E) - traceable to national standards



3/8" 1/2"

	■	N·m	H mm	L mm		kg
117.3805	3/8"	2-27	51,0	280,0	1000V	0,92
117.3810	3/8"	5-50	51,0	370,0	1000V	1,07
117.1301	1/2"	2-27	61,0	280,0	1000V	0,93
117.1300	1/2"	5-50	61,0	370,0	1000V	1,10
117.1302	1/2"	20-100	61,0	460,0	1000V	1,20
117.1303	1/2"	40-220	61,0	530,0	1000V	1,30

TORQUE CONVERTOR



By using a torque multiplier you can avoide the use of long levers and the amount of force to be used can be reduced by a factor equivalent to the gear ratio of the torque multiplier.
For the sake of enhanced safety, some of the torque multipliers are provided with anti-backlash mechanism.

Ideal for controlled torque multiplication - even with very short lever lengths having a reliable accuracy of **±5 %**.

Advantages of using a torque multiplier:

- Avoidance of long lever arms meaning you work more safely. Torque multipliers reduce the lever length or the force required by the user by a certain factor.
- The use of a long lever arm may not be possible owing to limitations on the space available.
- The torque multiplier means the torque is applied more accurately as it is applied continuously and slowly and therefore more accuratly.

Universal torque multiplier

- Robust loosening
- Designed for use with the crank handle supplied
- Intergrated support device
- Square drive adaptor to DIN 3120 / ISO 1174
- 1:64 Torque ratio
- 4.000 Nm maximum output torque
- Including crank handle and one extension
- Indispensable as essential equipment on service vehicles
- Ideal for trucks, construction machines and agricultural machines
- Not suited for use with impact wrenches
- In durable plastic storage case

1"

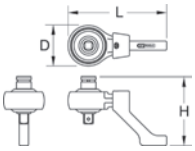
			kg
516.1151	3 pcs	Universal torque multiplier	8,54

consists of:

		kg
516.1152	1" Crank handle for 516.1151	500
516.1153	1" Extension for 516.1151	300

Universal torque multiplier

- Accuracy: ±5 % Tolerance
- For controlled fastening in clockwise and counter clockwise directions
- Device for angle regulated fastening with a torque wrench
- Single stage precision planetary gear for both directions
- Two support devices
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Not suited for use with impact wrenches
- Supplied in a metal storage case

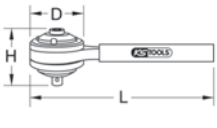


1/2" 3/4" 1"

	□	○	■	→ Nm	← Nm	D mm	L mm	H mm	kg
516.3700	1/2"	5 : 1	3/4"	260	1300	110,0	395,0	127,0	8,60
516.3705	3/4"	5 : 1	1"	540	2700	110,0	395,0	127,0	4,40

Torque convertor, 1680 Nm

- High accuracy: ±5 % Tolerance
- For controlled fastening in clockwise and counter clockwise directions
- Device for angle regulated fastening with a torque wrench
- With anti-backlash mechanism
- Encapsulated precision planetary gearing
- With straight strut
- Housing with angle scale ring
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Not suited for use with impact wrenches
- In durable plastic case incl. spare anti/backlash mechanism



1/2" 3/4"

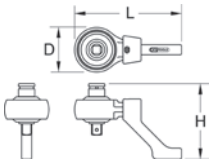
	□	○	■	→ Nm	← Nm	D mm	L mm	H mm	kg
516.3740	1/2"	6:1	3/4"	280	1680	100,0	128,0	106,0	4,90

accessories:

		kg
516.3742	Spare square for 516.3740	0,10
516.3743	Straight strut for 516.3740	1,00
516.3744	Extension for straight strut for 516.3740	1,17

Torque convertor, 2700 Nm

- High accuracy: ±5 % Tolerance
- For controlled fastening in clockwise and counter clockwise directions
- Device for angle regulated fastening with a torque wrench
- With anti-backlash mechanism
- Encapsulated precision planetary gearing
- With adjustable angular strut
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Not suited for use with impact wrenches
- In durable plastic case incl. spare anti/backlash mechanism



3/4" 1"

	□	○	■	→ Nm	← Nm	D mm	L mm	H mm	kg
516.3745	3/4"	5,4:1	1"	500	2700	115,0	201,0	126,0	6,34

accessories:

		kg
516.3747	Spare square for 516.3745	0.24
516.3748	Angular strut for 516.3745	1.42

Torque convertor, 3500 Nm

- High accuracy: ±5 % Tolerance
- For controlled fastening in clockwise and counter clockwise directions
- Device for angle regulated fastening with a torque wrench
- With anti-backlash mechanism
- Encapsulated precision planetary gearing
- Moving strut with 1" socket mounting
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Not suited for use with impact wrenches
- In durable plastic case incl. spare anti/backlash mechanism

3/4" 1"

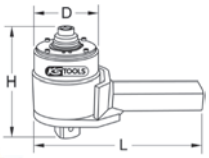
	□	○	■	→ Nm	← Nm	D mm	L mm	H mm	kg
516.3750	3/4"	4,5:1	1"	770	3500	108,0	264,0	130,0	7,30

accessories:

		g
516.3752	Spare square for 516.3750	280

Torque convertor, 4500 Nm

- High accuracy: ±5 % Tolerance
- For controlled fastening in clockwise and counter clockwise directions
- Device for angle regulated fastening with a torque wrench
- With anti-backlash mechanism
- Encapsulated precision planetary gearing
- With straight strut
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Not suited for use with impact wrenches
- In durable plastic case incl. spare anti/backlash mechanism



1/2" 1.1/2"

	□	○	■	→ Nm	← Nm	D mm	L mm	H mm	kg
516.3755	1/2"	20:1	1.1/2"	225	4500	120,0	312,0	204,8	8,30

Torque convertor, 6000 Nm

- High accuracy: ±5 % Tolerance
- For controlled fastening in clockwise and counter clockwise directions
- Device for angle regulated fastening with a torque wrench
- With anti-backlash mechanism
- Encapsulated precision planetary gearing with backstop
- With adjustable strut
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Not suited for use with impact wrenches
- In durable plastic case incl. spare anti/backlash mechanism

1/2" 1.1/2"

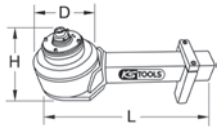
	□	○	■	→ Nm	← Nm	D mm	L mm	H mm	kg
516.3760	1/2"	26:1	1.1/2"	230	6000	130,0	328,0	216,3	15,70

accessories:

		g
516.3762	Replacement shear pin for 516.3760	9

Torque convertor, 9500 Nm

- High accuracy: ±5 % Tolerance
- For controlled fastening in clockwise and counter clockwise directions
- Device for angle regulated fastening with a torque wrench
- With anti-backlash mechanism
- Encapsulated precision planetary gearing with backstop
- With adjustable strut
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Not suited for use with impact wrenches
- In durable plastic case incl. spare anti/backlash mechanism



1/2" 1.1/2"

	□	○	■	→ Nm	← Nm	D mm	L mm	H mm	kg
516.3765	1/2"	26:1	1.1/2"	365	9500	184,0	505,0	214,9	30,30

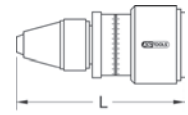
accessories:

		g
516.3767	Replacement shear pin for 516.3765	9

TEST EQUIPMENT

Precision torque testing instrument with dial indicator and drag indicator

- Display accuracy: ±6 % tolerance of the set scale value
- Precise reading accuracy for a minimum 5.000 tightening cycles
- For controlled display in a clockwise and counter clockwise direction
- For testing, measuring, checking and making adjustments
- Display torque testing instrument with drag indicator
- Large vision panel for precise adjustment
- Tool mounting using a three jaw chuck
- Individually marked with serial number - unique product identification
- including calibration declaration of conformity according to DIN EN ISO 6789:2017(E) - traceable to national standards



	Measuring range mN•m	Measuring range cN•m	Division mN•m	Division cN•m	Tightening chuck Ø mm	L mm	g
516.3310	1-9		0,2		1-6,5	83,0	290
516.3315	2-15		0,2		1-6,5	83,0	290
516.3320	4-30		0,5		1-6,5	83,0	290
516.3325	5-60		1		1-6,5	83,0	290
516.3330	10-120		2		1-6,5	83,0	290
516.3335	20-240		5		1-6,5	83,0	290
516.3410		1-15		0,2	1-8,5	102,0	600
516.3415		2-24		0,2	1-8,5	102,0	600
516.3420		4-36		0,5	1-8,5	102,0	600
516.3425		5-60		1,0	1-8,5	102,0	600
516.3430		10-90		2,0	1-8,5	102,0	600
516.3435		10-150		2,0	1-8,5	102,0	600

Electronic accuracy tester for torque wrenches

- High display accuracy: +1 % tolerance of the scale values, +/- 1 digit
- For checking or adjusting torque wrenches and torque screwdrivers
- For controlled display in a clockwise and counter clockwise direction
- Simple electronic tester with integrated torsion transducer
- Digital scale in Nm divisions for precise adjustment
- Display mode: First Peak (detection of first peak)
- Large LCD display for clear reading of the values
- With automatic reset and automatic shutdown
- Simple and comfortable operating
- Square drive by means of square adaptor
- Individually marked with serial number - unique product identification
- including calibration declaration of conformity according to DIN EN ISO 6789:2017(E) - traceable to national standards
- No main power required – includes 2 x AA 1.5 V LR26 batteries
- Includes reinforcement screw
- In durable plastic storage case

1/4" 3/8" 1/2" 3/4" 1"

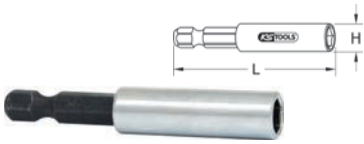
	□	Measuring range N•m	L mm	B mm	H mm	kg
516.0100	1/4"+3/8"+1/2"+3/4"	5 - 500	180,0	130,0	147,0	4,82
516.0200	1/4"+3/8"+1/2"+3/4"	500 - 1000	180,0	130,0	147,0	4,82


KS TOOLS
Innovation is
our mission!

BIT HOLDERS

Magnetic bit holder

- DIN 7427
- Magnetic
- For 1/4" Bits with external hexagon drive to DIN 3126 / ISO 1173 - C 6,3
- Can be used by hand, electric screwdriver and drills
- Ideally suited for fittings in trade and industry
- Special tool steel



1/4"

	⬢	○	H mm	L mm	
514.1102	1/4"	1/4"	10,0	50,0	50
514.1103	1/4"	1/4"	10,0	100,0	60

Magnetic bit holder with depth adjustment

- Ideally suited for working in dry lining
- Magnetic
- Depth adjustment
- For 1/4" Bits with external hexagon drive to DIN 3126 / ISO 1173 - C 6,3
- Can be used by hand, electric screwdriver and drills
- Ideally suited for fittings in trade and industry
- Special tool steel

1/4"

	⬢	○	H mm	L mm	
514.1109	1/4"	1/4"	15,0	57-63	20

1/4" Quick change bitholder, magnetic, with locking system

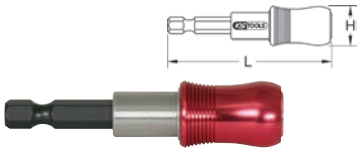
- Magnetic
- Quick change function and locking device
- For 1/4" Bits with external hexagon drive to DIN 3126 / ISO 1173 - C 6,3
- Can be used by hand, electric screwdriver and drills
- Ideally suited for fittings in trade and industry
- Special tool steel

1/4"

	⬢	○	H mm	L mm	
514.1104	1/4"	1/4"	15,0	50,0	50
514.1110	1/4"	1/4"	15,0	150,0	130
514.1111	1/4"	1/4"	15,0	305,0	250

Magnetic quick release bit holder

- Magnetic
- Quick change function and locking device
- For 1/4" Bits with external hexagon drive to DIN 3126 / ISO 1173 - C 6,3
- Can be used by hand, electric screwdriver and drills
- Ideally suited for fittings in trade and industry
- Special tool steel

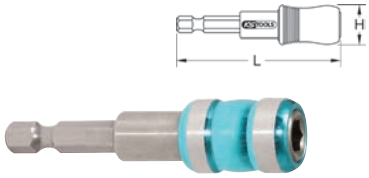


1/4"

	⬢	○	H mm	L mm	
514.1114	1/4"	1/4"	16,0	65,0	50

STAINLESS STEEL quick release bit holder

- Quick change function and locking device
- For 1/4" Bits with external hexagon drive to DIN 3126 / ISO 1173 - C 6,3
- Can be used by hand, electric screwdriver and drills
- Ideally suited for fittings in trade and industry
- Suitable for use at extremely low temperatures
- Extreme resistance to intergranular corrosion and oxidation
- Extremely long service life
- Autoclavable (heating of the tools to over 100 °C to kill germs)
- Rust-proof and acid resistant
- Stainless steel



1/4"

	⬢	○	H mm	L mm	
910.1114	1/4"	1/4"	16,0	65,0	50

Auto slimlock magnetic quick release bit holder

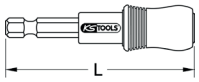
- Extremely slim design - ideal for hard to access areas
- Magnetic
- Quick change function and locking device
- For 1/4" Bits with external hexagon drive to DIN 3126 / ISO 1173 - C 6,3
- Can be used by hand, electric screwdriver and drills
- Ideally suited for fittings in trade and industry
- Special tool steel

1/4"

	⬢	○	H mm	L mm	
514.1113	1/4"	1/4"	11,5	68,0	30

2In1 quick change bit holder

- Magnetic
- Quick change function and locking device
- For 1/4" Bits with external hexagon drive to DIN 3126 / ISO 1173 - C 6,3
- for 1/4" bit sockets with internal square drive according to DIN 3120 / ISO 1174
- Can be used by hand, electric screwdriver and drills
- Ideally suited for fittings in trade and industry
- Chrome vanadium



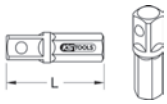
1/4"

	⬢	○	□	Ø mm	L mm	
514.1126	1/4"	1/4"	1/4"	17	85,0	50

ADAPTOR

Square drive adaptor

- External hexagon drive
- 1/4" square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Ideally suited for fittings in trade and industry
- Chrome plated
- Special tool steel



1/4"

	⬢	■	L mm		
911.1452	1/4"	1/4"	25,0	10	
503.8232	5/16"	1/4"	21,0	8	
503.8233	10,0	1/4"	24,5	10	

Square drive adaptor

- External hexagon drive to DIN 3126 / ISO 1173 - C 6,3
- Square drive adaptor to DIN3120 / ISO 1174 with ball lock
- Ideally suited for fittings in trade and industry
- For using in electric drivers and drills
- Sand-blasted
- Special tool steel

1/4"

	■	⬢	L mm		
514.1106	1/4"	1/4"	65,0	20	
514.1107	3/8"	1/4"	65,0	30	
514.1108	1/2"	1/4"	70,0	40	

Socket drive adaptor set

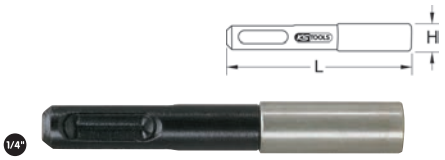
- External hexagon drive to DIN 3126 / ISO 1173 - C 6,3
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Ideally suited for fittings in trade and industry
- For using in electric drivers and drills
- Sand-blasted
- Special tool steel

1/4"

514.1105	3 pcs	1/4" - 3/8" - 1/2"	100

Magnetic SDS bit holder

- With SDS adaptor
- Magnetic
- For 1/4" Bits with external hexagon drive to DIN 3126 / ISO 1173 - C 6,3
- Ideally suited for fittings in trade and industry
- For using in electric drivers and drills with SDS adaptor
- Special tool steel



	○	H mm	L mm	g
514.1130	1/4"	11,0	75,0	35

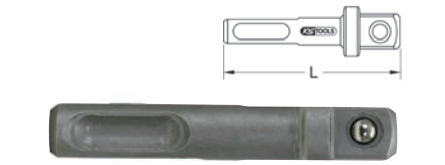
Magnetic SDS quick release bit holder

- With SDS adaptor
- Magnetic
- Quick change function and locking device
- For 1/4" Bits with external hexagon drive to DIN 3126 / ISO 1173 - C 6,3
- Ideally suited for fittings in trade and industry
- For using in electric drivers and drills with SDS adaptor
- Special tool steel

	○	H mm	L mm	g
514.1131	1/4"	14,0	78,0	40

SDS socket drive adaptor

- With SDS adaptor
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Ideally suited for fittings in trade and industry
- For using in electric drivers and drills with SDS adaptor
- Sand-blasted
- Special tool steel



	■	L mm	g
514.1132	3/8"	60,0	20
514.1133	1/2"	65,0	50

SDS chuck adaptor

- With SDS adaptor
- Thread 1/2" x 20 Pitch
- Ideally suited for fittings in trade and industry
- For using in electric drivers and drills with SDS adaptor
- Special tool steel

	H mm	L mm	g
514.1134	18,0	65,0	40

SCREWDRIVER BITS

ERGOTORQUE*plus*® bit screwdriver

- Two component handle
- Extra short execution
- Magnetic
- Optimal power transmission
- 1/4" hexagonal holder for bits

	○	L mm	g
159.1190	1/4"	63,0	30

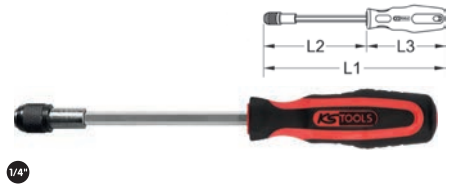
ERGOTORQUE*plus*® bit screwdriver

- For bits to DIN 3126 / C 6,3
- Two component handle
- Optimal power transmission
- Magnetic
- Blade made of chrome vanadium

	○	L1 mm	L2 mm	L3 mm	g
159.2198	1/4"	250,0	150,0	100,0	100

ERGOTORQUE*plus*® quick change bit screwdriver

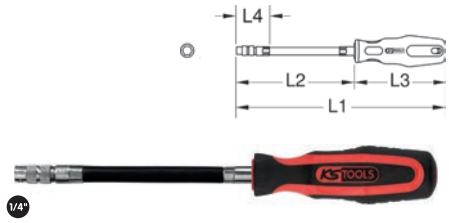
- For bits to DIN 3126 / C 6,3
- Two component handle
- Locking and fast change device
- Optimal power transmission
- Magnetic
- Blade made of chrome vanadium



	○	L1 mm	L2 mm	L3 mm	g
159.2145	1/4"	200,0	100,0	100,0	100

ERGOTORQUE*plus*® bit screwdriver

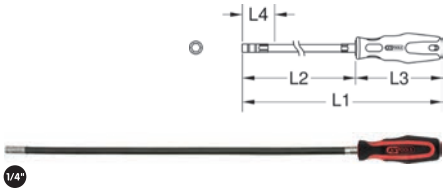
- Two component handle
- Flexible
- Limited torque
- Double spiral shaft
- Plastic protective coating
- 1/4" hexagonal holder for bits



	○	L1 mm	L2 mm	L3 mm	L4 mm	g
159.1129	1/4"	200,0	150,0	50,0	8,0	200

ERGOTORQUE*plus*® bit screwdriver, extra long

- For bits to DIN 3126 / C 6,3
- Two component handle
- Flexible blade with double spiral shaft
- Limited torque
- Plastic protective coating



	○	L1 mm	L2 mm	L3 mm	L4 mm	g
911.1172	1/4"	614,0	500,0	114,0	43,0	280

ERGOTORQUE*plus*® bit screwdriver

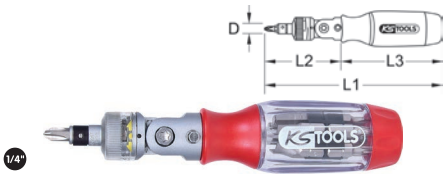
- Two component handle
- Optimal power transmission
- Magnetic
- For bits to DIN 3126 / C 6,3
- Blade made of chrome vanadium

	○	L1 mm	L2 mm	L3 mm	g
159.1198	1/4"	205,0	100,0	105,0	90

RATCHET BIT SCREWDRIVER

Ratchet bit screwdriver

- Robust gearing with 24 teeth
- Ratchet function
- 180° multi ajustable blade
- For bits to DIN 3126 / C 6,3
- Magnetic
- Integrated bit magazine with 13 bits
- Ergonomically designed handle



	○	D mm	L1 mm	L2 mm	L3 mm	g
911.2470	1/4"	10,0	190,0	82,0	108,0	380

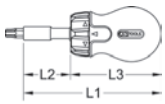
T-handle ratchet bit screwdriver

- Robust gearing with 24 teeth
- Ratchet function
- Locking and fast change device
- 45° two way revolving head
- For bits to DIN 3126 / C 6,3
- Fast change bit stop function
- Magnetic
- Integrated bit magazine with 5 bits
- Two component handle

	○	D mm	L1 mm	L2 mm	L3 mm	g
911.2475	1/4"	15,0	140,0	26,0	114,0	380

Mini ratchet screwdriver

- Ratchet function
- Exact gearing with 72 teeth
- For bits to DIN 3126 / C 6,3
- Magnetic
- Two component handle
- Blade mirror polished chrome

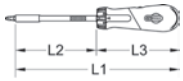


1/4"

	○	L1 mm	L2 mm	L3 mm	
159.2061	1/4"	95,0	27,0	68,0	140

Revolver ratchet bit screwdriver

- Ratchet function
- Exact gearing with 72 teeth
- Handle with double function (standard and pistol handle)
- For bits to DIN 3126 / C 6,3
- Magnetic
- 40 Nm maximum torque
- Integrated bit magazine
- Two component handle
- Blade mirror polished chrome



1/4"

	○	L1 mm	L2 mm	L3 mm	
159.2051	1/4"	260,0	130,0	130,0	450

BIT RATCHETS

Bit ratchet reversible with adaptor for sockets

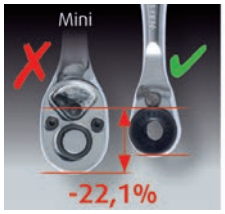
- With 1/4" square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- For bits with external hexagon drive to DIN 3126 / ISO 1173 - C 6,3
- Reversible
- Exact gearing with 72 teeth
- Extremely flat construction form
- Matt finished
- Special tool steel

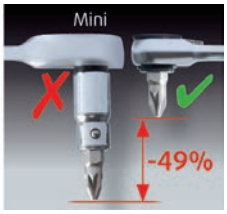
1/4"

		Length mm	○	■	
918.1595	2 pcs	100,0	1/4"	1/4"	98

consists of:

918.1594	1/4" Bit ratchet reversible	70
503.8231	Socket adaptor f.bit ratchet, 1/4"x1/4"	6





Bit-joint change-over ratchet set with plug adapter for sockets

- For bits with external hexagon drive to DIN 3126 / ISO 1173 - C 6,3
- With square drive according to DIN 3120 / ISO 1174 with ball lock
- Reversible
- 180° revolving head
- Fine gearing 72 teeth ratchet mechanism
- Infinitely variable
- With extension and 1/4" plug-in adapter
- Extremely flat construction form
- Matt finished
- Chrome vanadium

1/4"

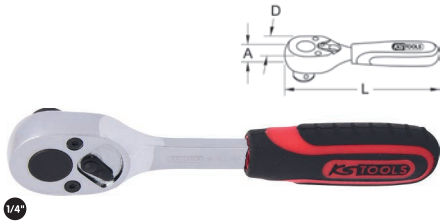
		Length mm	○	■	
918.1590	3 pcs	119,0	1/4"	1/4"	104

consists of:

503.8231	Socket adaptor f.bit ratchet, 1/4"x1/4"	6
918.1560	1/4" Bit-joint reversing ratchet, length 119mm	66
514.1124	1/4" extension, 100mm	33

CHROME*plus*® bit reversing ratchet

- For bits with external hexagon drive to DIN 3126 / ISO 1173 - C 6,3
- Reversible
- Exact gearing with 72 teeth
- Two component handle
- Mirror polished
- Special tool steel

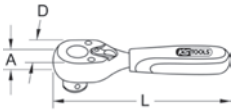


1/4"

	A mm	D mm	L mm	Repair set	
918.1495	18,5	22,0	115,0	914.1494	160

Bit reversing ratchet

- For bits with 10 mm external hexagon drive
- Reversible
- Exact gearing with 72 teeth
- Two component handle
- Mirror polished
- Special tool steel



10 mm

	A mm	D mm	L mm	Repair set	
914.3893	30,0	32,0	120,0	914.3494	180

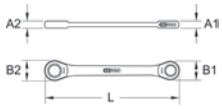
GEAR*plus*® mini reversible ratcheting spanner

- Especially handy and compact
- Rotating assembly
- One way angled head
- Exact gearing with 72 teeth
- Mirror polished
- Chrome vanadium

	○	A1 mm	A2 mm	B1 mm	B2 mm	L mm	
503.4691	1/4" x 1/4"	9,7	7,8	12,6	14,2	90,0	40

GEAR*plus*® Double ratchet ring spanner

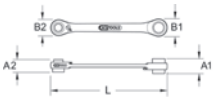
- FlankTraction profile
- In accordance to DIN 3110 / ISO 3318
- Straight form
- Exact gearing with 72 teeth
- Mirror polished
- Chrome vanadium



	mm	A1 mm	A2 mm	B1 mm	B2 mm	L mm	
503.4511	8x10	7,3	6,5	20,0	17,0	128,0	40

GEAR*plus*® mini reversible ratcheting spanner

- Especially handy and compact
- Rotating assembly
- Two side angled head
- Exact gearing with 72 teeth
- Mirror polished
- Chrome vanadium

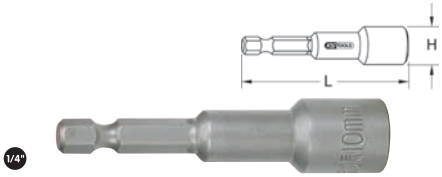


	○	A1 mm	A2 mm	B1 mm	B2 mm	L mm	
503.4678	1/4" x 10mm	13,5	9,7	19,3	14,2	124,5	40
503.4679	1/4" x 5/16"	10,2	9,7	17,2	14,2	115,0	40

1/4" SCREWDRIVING TOOLS

drive socket, magnetic

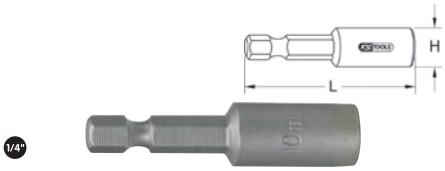
- Magnetic
- External hexagon drive to DIN 3126 / ISO 1173 - C 6,3
- Can be used by hand or with an electric screwdriver
- For a damage free inserting boring and unscrewing bolts
- Ideally suited for fittings in trade and industry
- Sand-blasted
- Special tool steel



	mm	L mm	H mm	g	
122.2171	5,0	60,0	11,0	28	
122.2172	6,0	60,0	11,0	28	
122.2101	7,0	60,0	11,0	30	
122.2102	8,0	60,0	12,0	30	
122.2103	10,0	60,0	15,0	40	
122.2173	12,0	60,0	18,0	49	
122.2104	13,0	60,0	18,0	50	

Stud screwdriver

- External hexagon drive to DIN 3126 / ISO 1173 - C 6,3
- Can be used by hand or with an electric screwdriver
- For a damage free inserting and unscrewing bolts from floor
- Ideally suited for fittings in trade and industry
- Sand-blasted
- Special tool steel



		L mm	H mm	g	
122.2105	M6	50,0	12,0	20	
122.2106	M8	50,0	12,0	20	
122.2107	M10	50,0	12,0	20	
122.2108	M12	50,0	14,0	20	

bit and drive socket set

- Ideal set of compilation for plumbing, heating and air conditioning
- External hexagon drive to DIN 3126 / ISO 1173 - C 6,3
- Can be used by hand or with an electric screwdriver
- Ideally suited for fittings in trade and industry
- Includes magnetic drive sockets and stud screwdrivers for a damage free inserting borin and unscrewing bolts and stud bolts
- Orderly arrangement of the popular 1/4" bits and drive sockets
- Sand blasted
- Special tool steel
- In durable plastic storage case

			kg	
122.2100	31 pcs	bit and drive socket set	0,67	

4 x		7 - 8 - 10 - 13 mm
4 x		M6 - M8 - M10 - M12
1 x		50 mm
5 x		PH1 - 3 x PH2 - PH3
5 x		PZ1 - 3 x PZ2 - PZ3
2 x		5,5 - 6,5 mm
3 x		4 - 5 - 6 mm
7 x		T10 - T15 - T20 - T25 - T27 - T30 - T40

MICRO BITS

Micro bit for slotted screws

- Slotted
- External hexagon drive and locking ring
- For hand usage with a GEARplus spanner 503.4511
- Ideally suited for fittings in trade and industry
- Nickel plated
- Special tool steel

	mm		L mm	Content	g
503.8221	4,0	8,0	15,0	1	10

Micro bit for phillips screws PH

- PH
- External hexagon drive and locking ring
- For hand usage with a GEARplus spanner 503.4511
- Ideally suited for fittings in trade and industry
- Nickel plated
- Special tool steel

			L mm	Content	g
503.8101	PH0	8,0	20,0	1	10
503.8102	PH1	8,0	20,0	1	10
503.8103	PH2	8,0	20,0	1	10

Micro bit for hexagon screws

- Hexagon socket
- External hexagon drive and locking ring
- For hand usage with a GEARplus spanner 503.4511
- Ideally suited for fittings in trade and industry
- Nickel plated
- Special tool steel

	mm		L mm	Content	g
503.8131	4,0	8,0	15,0	1	10
503.8132	5,0	8,0	15,0	1	10
503.8133	6,0	10,0	15,0	1	10
503.8134	7,0	10,0	15,0	1	10
503.8135	8,0	10,0	15,0	1	10

Micro Bit for Torx screws

- Torx
- External hexagon drive and locking ring
- For hand usage with a GEARplus spanner 503.4511
- Ideally suited for fittings in trade and industry
- Nickel plated
- Special tool steel

			L mm	Content	g
503.8170	T8	8,0	23,0	1	5
503.8171	T10	8,0	23,0	1	10
503.8172	T15	8,0	23,0	1	10
503.8173	T20	8,0	23,0	1	10
503.8174	T25	8,0	23,0	1	10
503.8175	T27	8,0	23,0	1	10
503.8176	T30	8,0	23,0	1	10
503.8177	T40	10,0	23,0	1	10
503.8178	T45	10,0	23,0	1	10

Micro Bit for Torx screws with front hole drilling

- For tamperproof Torx
- External hexagon drive and locking ring
- For hand usage with a GEARplus spanner 503.4511
- Ideally suited for fittings in trade and industry
- Nickel plated
- Special tool steel

			L mm	Content	g
503.8200	TB8	8,0	23,0	1	5
503.8201	TB10	8,0	23,0	1	10
503.8202	TB15	8,0	23,0	1	10
503.8203	TB20	8,0	23,0	1	10
503.8204	TB25	8,0	23,0	1	10
503.8205	TB27	8,0	23,0	1	10
503.8206	TB30	8,0	23,0	1	10
503.8207	TB40	10,0	23,0	1	10
503.8208	TB45	10,0	23,0	1	10

Micro bit for spline screws

- Spline
- External hexagon drive and locking ring
- For hand usage with a GEARplus spanner 503.4511
- Ideally suited for fittings in trade and industry
- Nickel plated
- Special tool steel

			L mm	Content	g
503.8152	M5	8,0	23,0	1	10
503.8153	M6	10,0	23,0	1	10
503.8154	M8	10,0	23,0	1	10
503.8155	M10	10,0	23,0	1	10

Micro bit set

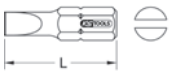
- External hexagon drive and locking ring
- For manual operation
- Includes reversing GEAR*plus*® bit ratchet ring spanner
- Ideally suited for fittings in trade and industry
- Precise and orderly arrangement of the popular micro-bits
- Nickel plated
- Special tool steel

503.4670	32 pcs	Micro bit set	520
1 x		8 x 10 mm	
1 x		4 mm	
3 x		PH0 - PH1 - PH2	
5 x		4 - 5 - 6 - 7 - 8 mm	
4 x		5 - 6 - 8 - 10 mm	
9 x		T8 - T10 - T15 - T20 - T25 - T27 - T30 T40 - T45	
9 x		TB8 - TB10 - TB15 - TB20 - TB25 TB27 - TB30 - TB40 - TB45	

MINI BITS

Mini bit for slotted screws

- Slotted
- Very flat design for hard to access places
- External hexagon drive to DIN 3126 / ISO 1173 - C 6,3
- For manual operation with go-through-reversing ratchet 918.3072
- Ideally suited for fittings in trade and industry
- Nickel plated
- Special tool steel

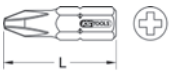


1/4"

		L mm	
918.3047	4,0	18,0	5
918.3048	6,0	18,0	5

Mini bit for Phillips head screws PH

- PH
- Very flat design for hard to access places
- External hexagon drive to DIN 3126 / ISO 1173 - C 6,3
- For manual operation with go-through-reversing ratchet 918.3072
- Ideally suited for fittings in trade and industry
- Nickel plated
- Special tool steel



1/4"

		L mm	
918.3041	PH 0	18,0	5
918.3042	PH 1	18,0	5
918.3043	PH 2	18,0	5

Mini bit for pozidriv screws PZ

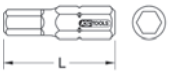
- PZ
- Very flat design for hard to access places
- External hexagon drive to DIN 3126 / ISO 1173 - C 6,3
- For manual operation with go-through-reversing ratchet 918.3072
- Ideally suited for fittings in trade and industry
- Nickel plated
- Special tool steel

1/4"

		L mm	
918.3044	PZ 0	18,0	5
918.3045	PZ 1	18,0	5
918.3046	PZ 2	18,0	5

Mini bit for hexagon screws

- Hexagon socket
- Very flat design for hard to access places
- External hexagon drive to DIN 3126 / ISO 1173 - C 6,3
- For manual operation with go-through-reversing ratchet 918.3072
- Ideally suited for fittings in trade and industry
- Nickel plated
- Special tool steel

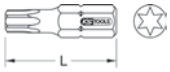


1/4"

	mm	L mm	
918.3049	3,0	18,0	5
918.3051	4,0	18,0	5
918.3052	5,0	18,0	5
918.3053	6,0	18,0	5

Mini bit for Torx screws

- Torx
- Very flat design for hard to access places
- External hexagon drive to DIN 3126 / ISO 1173 - C 6,3
- For manual operation with go-through-reversing ratchet 918.3072
- Ideally suited for fittings in trade and industry
- Nickel plated
- Special tool steel



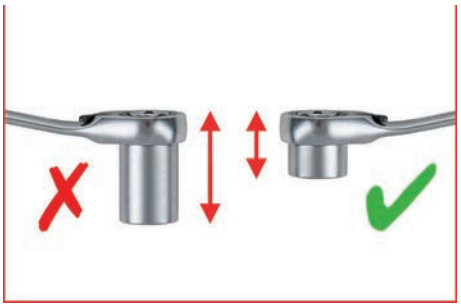
1/4"

		L mm	
918.3054	T10	18,0	5
918.3055	T15	18,0	5
918.3056	T20	18,0	5
918.3057	T25	18,0	5
918.3058	T27	18,0	5
918.3059	T30	18,0	5
918.3060	T40	18,0	5

Go through socket and bit set

- Especially handy and compact
- Rotating assembly
- Very flat design for hard to access places
- Ratchet head offset at 15°
- Exact gearing with 72 teeth
- With reversing lever
- Matt finish
- Chrome vanadium
- In durable plastic case

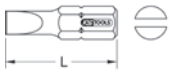
918.3050	31 pcs	Go through socket and bit set	420
10 x		5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 mm	
1 x		1/4“ x 11 mm	
4 x		PH0 - PH1 - 2 x PH2	
3 x		PZ0 - PZ1 - PZ2	
2 x		4 - 6 mm	
4 x		3 - 4 - 5 - 6 mm	
7 x		T10 - T15 - T20 - T25 - T27 - T30 - T40	



1/4" BITS 25 mm

Bit for slotted screws

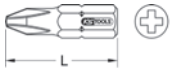
- Slotted
- External hexagon drive to DIN 3126 / ISO 1173 - C 6,3
- Can be used by hand or with an electric screwdriver
- Ideally suited for fittings in trade and industry
- Nickel plated
- Special tool steel



	mm	L mm	Content	
911.3303	3,0	25,0	1	5
911.3304	3,0	25,0	5	35
911.3305	3,5	25,0	1	5
911.3306	3,5	25,0	5	35
911.2237	4,0	25,0	1	5
911.2238	4,0	25,0	5	40
911.2240	4,5	25,0	1	6
911.2241	4,5	25,0	5	40
911.2392	5,0	25,0	1	5
911.2492	5,0	25,0	5	35
911.2243	5,5	25,0	1	6
911.2244	5,5	25,0	5	40
911.2246	6,0	25,0	1	6
911.2247	6,0	25,0	5	40
911.2249	6,5	25,0	1	6
911.2250	6,5	25,0	5	40
911.3307	7,0	25,0	1	6
911.3308	7,0	25,0	5	40
911.2252	8,0	25,0	1	9
911.2253	8,0	25,0	5	58
911.3309	9,0	25,0	1	10
911.3310	9,0	25,0	5	66
911.3311	10,0	25,0	1	12
911.3312	10,0	25,0	5	74
911.3313	11,0	25,0	1	12
911.3314	11,0	25,0	5	74

Bit for Phillips screws PH

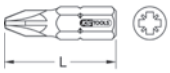
- PH
- External hexagon drive to DIN 3126 / ISO 1173 - C 6,3
- Can be used by hand or with an electric screwdriver
- Ideally suited for fittings in trade and industry
- Nickel plated
- Special tool steel



		L mm	Content	
911.3333	PH000	25,0	1	6
911.3334	PH000	25,0	5	40
911.3335	PH00	25,0	1	6
911.3336	PH00	25,0	5	40
911.2396	PH0	25,0	1	5
911.2394	PH0	25,0	5	35
911.2201	PH1	25,0	1	5
911.2202	PH1	25,0	5	35
911.2204	PH2	25,0	1	5
911.2205	PH2	25,0	5	35
911.2207	PH3	25,0	1	6
911.2208	PH3	25,0	5	40
911.3337	PH4	25,0	1	6
911.3338	PH4	25,0	5	40

Bit for pozidriv screws PZ

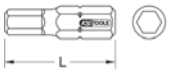
- PZ
- External hexagon drive to DIN 3126 / ISO 1173 - C 6,3
- Can be used by hand or with an electric screwdriver
- Ideally suited for fittings in trade and industry
- Nickel plated
- Special tool steel



		L mm	Content	
911.2397	PZ0	25,0	1	5
911.2393	PZ0	25,0	5	5
911.2219	PZ1	25,0	1	5
911.2220	PZ1	25,0	5	35
911.2222	PZ2	25,0	1	5
911.2223	PZ2	25,0	5	35
911.2225	PZ3	25,0	1	6
911.2226	PZ3	25,0	5	40
911.3345	PZ4	25,0	1	12
911.3346	PZ4	25,0	5	74

Bit for hexagon screws

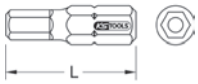
- Hexagon socket
- External hexagon drive to DIN 3126 / ISO 1173 - C 6,3
- Can be used by hand or with an electric screwdriver
- Ideally suited for fittings in trade and industry
- Nickel plated
- Special tool steel



	mm		L mm	Content	
911.3558	1,5		25,0	1	6
911.3559	1,5		25,0	5	40
911.2377	2		25,0	1	5
911.3561	2		25,0	5	6
911.2386	2,5		25,0	1	5
911.3563	2,5		25,0	5	40
911.2255	3		25,0	1	5
911.2256	3		25,0	5	35
911.2258	4		25,0	1	5
911.2259	4		25,0	5	35
911.2261	5		25,0	1	6
911.2262	5		25,0	5	40
911.7854	5,5		25,0	1	6
911.2264	6		25,0	1	6
911.2265	6		25,0	5	40
911.2267	7		25,0	1	6
911.2268	7		25,0	5	40
911.2270	8		25,0	1	9
911.2271	8		25,0	5	58
911.2399	10		25,0	1	10
911.3565	10		25,0	5	58
911.7855		1/20"	25,0	1	6
911.3566		1/16"	25,0	1	40
911.3611		1/16"	25,0	5	40
911.3567		5/64"	25,0	1	40
911.3612		5/64"	25,0	5	40
911.3568		3/32"	25,0	1	40
911.3613		3/32"	25,0	5	40
911.3569		7/64"	25,0	1	40
911.3614		7/64"	25,0	5	40
911.3570		1/8"	25,0	1	40
911.3615		1/8"	25,0	5	40
911.3571		9/64"	25,0	1	40
911.3616		9/64"	25,0	5	40
911.3572		5/32"	25,0	1	40
911.3617		5/32"	25,0	5	40
911.3573		3/16"	25,0	1	40
911.3618		3/16"	25,0	5	40
911.3574		7/32"	25,0	1	40
911.3619		7/32"	25,0	5	40
911.3575		1/4"	25,0	1	40
911.3620		1/4"	25,0	5	40
911.3576		5/16"	25,0	1	42
911.3621		5/16"	25,0	5	40
911.3577		3/8"	25,0	1	58
911.3622		3/8"	25,0	5	40

Bit for hexagon tamperproof screws

- Tamperproof hexagon
- External hexagon drive to DIN 3126 / ISO 1173 - C 6,3
- Can be used by hand or with an electric screwdriver
- Ideally suited for fittings in trade and industry
- Nickel plated
- Special tool steel



	mm		L mm	Content	
911.2934	2,0		25,0	1	5
911.2935	2,0		25,0	5	35
911.2937	2,5		25,0	1	5
911.2938	2,5		25,0	5	35
911.2940	3,0		25,0	1	5
911.2941	3,0		25,0	5	35
911.2943	4,0		25,0	1	5
911.2944	4,0		25,0	5	35
911.2946	5,0		25,0	1	6
911.2947	5,0		25,0	5	40
911.2949	6,0		25,0	1	6
911.2950	6,0		25,0	5	40
911.2952		1/8"	25,0	1	5
911.2953		1/8"	25,0	5	35
911.2955		3/32"	25,0	1	5
911.2956		3/32"	25,0	5	35
911.2958		5/32"	25,0	1	5
911.2959		5/32"	25,0	5	35
911.2961		5/64"	25,0	1	5
911.2962		5/64"	25,0	5	35
911.2964		7/64"	25,0	1	5
911.2965		7/64"	25,0	5	35
911.2967		9/64"	25,0	1	5
911.2968		9/64"	25,0	5	35
911.3582		1/16"	25,0	1	6
911.3583		1/16"	25,0	5	40
911.3584		3/16"	25,0	1	6
911.3585		3/16"	25,0	5	40
911.3586		7/32"	25,0	1	6
911.3587		7/32"	25,0	5	40
911.3588		1/4"	25,0	1	6
911.3589		1/4"	25,0	5	40
911.3590		5/16"	25,0	1	9
911.3591		5/16"	25,0	5	58
911.3592		3/8"	25,0	1	10
911.3593		3/8"	25,0	5	66

Bit for hexagon screws with ball end

- Hexagon socket with ball end
- External hexagon drive to DIN 3126 / ISO 1173 - C 6,3
- Can be used by hand or with an electric screwdriver
- Ideally suited for fittings in trade and industry
- Nickel plated
- Special tool steel

1/4"

	mm		L mm	Content	
911.7835	1,5		25,0	1	6
911.8395	1,5		25,0	5	40
911.7836	2		25,0	1	6
911.8396	2		25,0	5	40
911.3700	2,5		25,0	1	6
911.3701	2,5		25,0	5	40
911.3702	3		25,0	1	6
911.3703	3		25,0	5	40
911.7837	3,5		25,0	1	6
911.8397	3,5		25,0	5	40
911.3704	4		25,0	1	6
911.3705	4		25,0	5	40
911.3706	5		25,0	1	6
911.3707	5		25,0	5	40
911.3708	6		25,0	1	6
911.3709	6		25,0	5	40
911.3710		3/32"	25,0	1	6
911.3711		3/32"	25,0	5	40
911.4651		7/64"	25,0	1	6
911.3713		7/64"	25,0	5	6
911.3714		1/8"	25,0	1	40
911.3715		1/8"	25,0	5	6
911.4652		9/64"	25,0	1	6
911.3717		9/64"	25,0	5	40
911.3718		5/32"	25,0	1	6
911.3719		5/32"	25,0	5	40
911.3720		3/16"	25,0	1	6
911.3721		3/16"	25,0	5	40
911.3722		7/32"	25,0	1	6
911.3723		7/32"	25,0	5	40
911.3724		1/4"	25,0	1	6
911.3725		1/4"	25,0	5	40

Bit for Torx screws

- Torx
- External hexagon drive to DIN 3126 / ISO 1173 - C 6,3
- Can be used by hand or with an electric screwdriver
- Ideally suited for fittings in trade and industry
- Nickel plated
- Special tool steel

1/4"

		L mm	Content	
911.3351	T1	25,0	1	6
911.3352	T1	25,0	5	40
911.3353	T2	25,0	1	6
911.3354	T2	25,0	5	40
911.3355	T3	25,0	1	6
911.3356	T3	25,0	5	40
911.3357	T4	25,0	1	6
911.3358	T4	25,0	5	40
911.3359	T5	25,0	1	6
911.3360	T5	25,0	5	40
911.2334	T6	25,0	1	5
911.2335	T6	25,0	5	35
911.2303	T7	25,0	1	5
911.2304	T7	25,0	5	35
911.2306	T8	25,0	1	5
911.2307	T8	25,0	5	35
911.2309	T9	25,0	1	5
911.2310	T9	25,0	5	35
911.2312	T10	25,0	1	5
911.2313	T10	25,0	5	35
911.2315	T15	25,0	1	5
911.2316	T15	25,0	5	35
911.2318	T20	25,0	1	5
911.2319	T20	25,0	5	35
911.2321	T25	25,0	1	6
911.2322	T25	25,0	5	40
911.2324	T27	25,0	1	6
911.2325	T27	25,0	5	40
911.2327	T30	25,0	1	6
911.2328	T30	25,0	5	40
911.2330	T40	25,0	1	8
911.2331	T40	25,0	5	50
911.3363	T45	25,0	1	8
911.3364	T45	25,0	5	50

Bit for Torx tamperproof screws

- For tamperproof Torx
- External hexagon drive to DIN 3126 / ISO 1173 - C 6,3
- Can be used by hand or with an electric screwdriver
- Ideally suited for fittings in trade and industry
- Nickel plated
- Special tool steel

1/4"

		L mm	Content	
911.2833	TB5	25,0	1	5
911.2836	TB6	25,0	1	35
911.2273	TB7	25,0	1	5
911.2274	TB7	25,0	5	35
911.2276	TB8	25,0	1	5
911.2277	TB8	25,0	5	35
911.2279	TB9	25,0	1	5
911.2280	TB9	25,0	5	35
911.2282	TB10	25,0	1	5
911.2283	TB10	25,0	5	35
911.2285	TB15	25,0	1	5
911.2286	TB15	25,0	5	35
911.2288	TB20	25,0	1	5
911.2289	TB20	25,0	5	35
911.2291	TB25	25,0	1	6
911.2292	TB25	25,0	5	40
911.2294	TB27	25,0	1	6
911.2295	TB27	25,0	5	40
911.2297	TB30	25,0	1	6
911.2298	TB30	25,0	5	40
911.2300	TB40	25,0	1	8
911.2301	TB40	25,0	5	50

Bit for Torx screws with ball end

- Torx with ball end
- External hexagon drive to DIN 3126 / ISO 1173 - C 6,3
- Can be used by hand or with an electric screwdriver
- Ideally suited for fittings in trade and industry
- Nickel plated
- Special tool steel

1/4"

		L mm	Content	
911.3389	T10	25,0	1	6
911.3390	T10	25,0	5	40
911.3391	T15	25,0	1	6
911.3392	T15	25,0	5	40
911.3393	T20	25,0	1	6
911.3394	T20	25,0	5	40
911.3395	T25	25,0	1	6
911.3396	T25	25,0	5	40
911.3397	T30	25,0	1	6
911.3398	T30	25,0	5	40
911.3399	T40	25,0	1	6
911.3500	T40	25,0	5	40

bit for Torx PLUS screws

- Torx PLUS
- External hexagon drive to DIN 3126 / ISO 1173 form C 8
- Can be used by hand or with an electric screwdriver
- Ideally suited for fittings in trade and industry
- Reinforced execution
- Nickel plated
- Special tool steel

1/4"

		L mm	Content	
911.7838	IP 3	30,0	1	8
911.7839	IP 4	30,0	1	8
911.7841	IP 5	30,0	1	8
911.7842	IP 6	30,0	1	8
911.7843	IP 7	30,0	1	8
911.7844	IP 8	30,0	1	8
911.7845	IP 9	30,0	1	8
911.3240	IP 10	30,0	1	8
911.3241	IP 15	30,0	1	8
911.3242	IP 20	30,0	1	8
911.3243	IP 25	30,0	1	8
911.7846	IP 27	30,0	1	8
911.3244	IP 30	30,0	1	8
911.7847	IP 40	30,0	1	8

Bit for tamperproof five star bits

- Five star, tamperproof
- External hexagon drive to DIN 3126 / ISO 1173 - C 6,3
- Can be used by hand or with an electric screwdriver
- Ideally suited for fittings in trade and industry
- Nickel plated
- Special tool steel

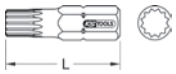
Application range: Control devices, alternator, air quantity meter, exterior mirror, insertion pumps for pump-line-nozzle system, door lock fastening screw for **Volkswagen**, **Audi**, **Ford**, **Mercedes**, Rover, **Seat**, **Škoda**, **Volvo** etc.

1/4"

		L mm	Content	
911.3101	TS10	30,0	1	5
911.3111	TS10	30,0	5	35
911.3102	TS15	30,0	1	5
911.3112	TS15	30,0	5	35
911.3103	TS20	30,0	1	5
911.3113	TS20	30,0	5	35
911.3104	TS25	30,0	1	6
911.3114	TS25	30,0	5	40
911.3105	TS27	30,0	1	6
911.3115	TS27	30,0	5	40
911.3106	TS30	30,0	1	6
911.3116	TS30	30,0	5	50
911.3107	TS40	30,0	1	8
911.3117	TS40	30,0	5	50
911.3108	TS45	30,0	1	10

Bit for spline screws

- Spline
- External hexagon drive to DIN 3126 / ISO 1173 - C 6,3
- Can be used by hand or with an electric screwdriver
- Ideally suited for fittings in trade and industry
- Nickel plated
- Special tool steel

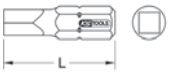


1/4"

		L mm	Content	
911.7831	M3	25,0	1	6
911.8392	M3	25,0	5	58
911.2341	M4	25,0	1	5
911.2342	M4	25,0	5	35
911.2344	M5	25,0	1	5
911.2345	M5	25,0	5	35
911.2347	M6	25,0	1	6
911.2348	M6	25,0	5	40
911.2350	M8	25,0	1	9
911.2351	M8	25,0	5	58
911.2353	M10	25,0	1	10

Bit for square-head screws

- Internal square
- with external hexagon drive according to DIN 3126 / ISO 1173 Form - C 6.35
- Can be used by hand or with an electric screwdriver
- Ideally suited for fittings in trade and industry
- Reinforced execution
- Nickel plated
- Special tool steel

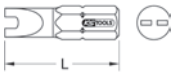


1/4"

		L mm	Content	
911.7884	#00	25,0	1	6
911.3001	#0	25,0	1	5
911.3004	#1	25,0	1	5
911.3007	#2	25,0	1	5
911.3010	#3	25,0	1	5
911.7889	#4	25,0	1	6

Bit for security screws

- Security
- External hexagon drive to DIN 3126 / ISO 1173 - C 6,3
- Can be used by hand or with an electric screwdriver
- Ideally suited for fittings in trade and industry
- Nickel plated
- Special tool steel



1/4"

	mm	L mm	Content	
911.2910	4,0	25,0	1	5
911.2911	4,0	25,0	5	35
911.2913	6,0	25,0	1	6
911.2914	6,0	25,0	5	40
911.2916	8,0	25,0	1	9
911.2917	8,0	25,0	5	58
911.2919	10,0	25,0	1	10
911.2920	10,0	25,0	5	63
911.3594	12,0	25,0	1	8
911.3595	12,0	25,0	5	56

Bit for RIBE® screws

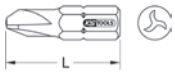
- RIBE®
- External hexagon drive to DIN 3126 / ISO 1173 form C 8
- Can be used by hand, electric screwdriver and impact drivers
- Ideally suited for fittings in trade and industry
- Reinforced execution
- Phosphate finish
- Special tool steel

1/4"

		L mm	Content	
911.5260	M4	25,0	1	6
911.5261	M5	25,0	1	6
911.5262	M6	25,0	1	6
911.5263	M7	25,0	1	6
911.5264	M8	25,0	1	8
911.5265	M9	25,0	1	8

Bit for TRIWING® screws

- TRIWING®
- External hexagon drive to DIN 3126 / ISO 1173 - C 6,3
- Can be used by hand or with an electric screwdriver
- Ideally suited for fittings in trade and industry
- Nickel plated
- Special tool steel



1/4"

		L mm	Content	
911.7872	#0	25,0	1	6
911.8428	#0	25,0	5	40
911.3625	#1	25,0	1	6
911.3626	#1	25,0	5	40
911.3627	#2	25,0	1	6
911.3628	#2	25,0	5	40
911.3629	#3	25,0	1	6
911.3630	#3	25,0	5	40
911.2922	#4	25,0	1	5
911.2923	#4	25,0	5	35
911.3596	#5	25,0	1	6
911.3597	#5	25,0	5	40
911.2925	#6	25,0	1	6
911.2926	#6	25,0	5	40
911.2928	#8	25,0	1	6
911.2929	#8	25,0	5	40
911.2931	#10	25,0	1	8
911.2932	#10	25,0	5	50

Bit for Torq-Set® screws

- Torq-Set®
- External hexagon drive to DIN 3126 / ISO 1173 - C 6,3
- Can be used by hand or with an electric screwdriver
- Ideally suited for fittings in trade and industry
- Nickel plated
- Special tool steel

1/4"

		L mm	Content	
911.7891	#0	25,0	1	6
911.8426	#0	25,0	5	40
911.3631	#1	25,0	1	6
911.3632	#1	25,0	5	40
911.3633	#2	25,0	1	6
911.3634	#2	25,0	5	40
911.3635	#3	25,0	1	6
911.3636	#3	25,0	5	40
911.3637	#4	25,0	1	6
911.3638	#4	25,0	5	40
911.3639	#5	25,0	1	6
911.3640	#5	25,0	5	40
911.2901	#6	25,0	1	6
911.2902	#6	25,0	5	40
911.2904	#8	25,0	1	9
911.2905	#8	25,0	5	58
911.2907	#10	25,0	1	10
911.2908	#10	25,0	5	63
911.7892	1/4"	25,0	1	6
911.8427	1/4"	25,0	5	40

1/4" BIT SETS 25 mm

Mini bit case

- Compact and handy design - fits into shirt or trouser pocket
- Ergonomic form for fatigue free working
- Integrated hexagon drive in the magazine can be used as an auxiliary screwdriver
- Folding bit magazine
- Includes AUTO SLIMLOCK bitholder with magnet and extension
- Extremly slim, ideal in confined spaces
- Precise and orderly arrangement of the popular 1/4" bits
- Can be used by hand or with an electric screwdriver
- Ideally suited for fittings in trade and industry
- Bits with external hexagon drive to DIN 3126 / ISO 1173 - C 6,3
- Nickel plated bits
- Bits made of special steel
- Box made from impact resistant plastic

1/4"

911.2840	11 pcs	Mini bit case	130
2 x		5,5 - 6,5 mm	
4 x		PH1 - 2 x PH2 - PH3	
4 x		PZ1 - 2 x PZ2 - PZ3	
1 x		1/4"	

Mini bit case

- Compact and handy design - fits into shirt or trouser pocket
- Ergonomic form for fatigue free working
- Integrated hexagon drive in the magazine can be used as an auxiliary screwdriver
- Folding bit magazine
- Includes AUTO SLIMLOCK bitholder with magnet and extension
- Extremly slim, ideal in confined spaces
- Precise and orderly arrangement of the popular 1/4" bits
- Can be used by hand or with an electric screwdriver
- Ideally suited for fittings in trade and industry
- Bits with external hexagon drive to DIN 3126 / ISO 1173 - C 6,3
- Nickel plated bits
- Bits made of special steel
- Box made from impact resistant plastic

1/4"

911.2845	11 pcs	Mini bit case	130
4 x		T15 - T20 - T25 - T30	
3 x		PH1 - PH2 - PH3	
3 x		PZ1 - PZ2 - PZ3	
1 x		1/4"	

Bit set

- External hexagon drive to DIN 3126 / ISO 1173 - C 6,3
- Can be used by hand or with an electric screwdriver
- Includes magnetic quick release bit holder and 1/4" socket adapter
- Practical belt holder
- Ideally suited for fittings in trade and industry
- Precise and orderly arrangement of the popular 1/4" bits
- Nickel plated
- Special tool steel
- In durable plastic case

1/4"

911.2060	32 pcs	Bit set	300
1 x		1/4"	
1 x		1/4"	
3 x		PH1 - PH2 - PH3	
6 x		2 x PZ1 - 2 x PZ2 - 2 x PZ3	
3 x		5,5 - 6,5 - 8 mm	
3 x		4 - 5 - 6 mm	
15 x		2 x TB10 - 3 x TB15 - 2 x TB20 - 3 x TB25 - 3 x TB30 - 2 x TB40	

CHROME*plus*® bit set

- External hexagon drive to DIN 3126 / ISO 1173 - C 6,3
- Can be used by hand or with an electric screwdriver
- Includes reversing GEARplus® bit ratchet ring spanner and 1/4" socket adaptor
- Ideally suited for fittings in trade and industry
- Precise and orderly arrangement of the popular 1/4" bits
- Chrome plated
- Special tool steel
- Includes mirror polished chrome box

1/4"

918.4520	20 pcs	CHROME*plus*® bit set	0,32
1 x		1/4" x 1/4"	
1 x		1/4"	
3 x		PH1 - PH2 - PH3	
3 x		PZ1 - PZ2 - PZ3	
3 x		4,5 - 5,5 - 6,5 mm	
3 x		4 - 5 - 6 mm	
6 x		TB10 - TB15 - TB20 - TB25 - TB30 - TB40	

CHROME*plus*® bit set

- External hexagon drive to DIN 3126 / ISO 1173 - C 6,3
- Can be used by hand or with an electric screwdriver
- Includes magnetic quick release bit holder and 1/4" socket adapter
- Ideally suited for fittings in trade and industry
- Precise and orderly arrangement of the popular 1/4" bits
- Nickel plated
- Special tool steel
- Includes mirror polished chrome box

1/4"

911.2070	30 pcs	CHROME*plus*® bit set	0,26
1 x		1/4"	
1 x		1/4"	
4 x		PH1 - 2 x PH2 - PH3	
4 x		PZ1 - 2 x PZ2 - PZ3	
3 x		4,5 - 5,5 - 6,5 mm	
3 x		4 - 5 - 6 mm	
7 x		TB10 - TB15 - TB20 - TB25 - TB27 - TB30 - TB40	
7 x		T10 - T15 - T20 - T25 - T27 - T30 - T40	

CHROME*plus*® bit set

- Can be used by hand or with an electric screwdriver
- Ideally suited for fittings in trade and industry
- Precise arrangement of the popular 1/4" bits
- Exact gearing with 72 teeth
- Offset angle 5°
- Matt finish
- Chrome vanadium
- In high quality chrome box

1/4"

918.4600	31 pcs	CHROME*plus*® bit set	0,60
1 x		1/4"	
1 x		1/4"	
1 x		1/4"	
4 x		PH 1 - 2 x PH 2 - PH 3	
4 x		PZ 1 - 2 x PZ 2 - PZ 3	
3 x		4,5 - 5,5 - 6,5 mm	
3 x		4 - 5 - 6 mm	
7 x		T10 - T15 - T20 - T25 - T27 - T30 T40	
7 x		TB10 - TB15 - TB20 - TB25 - TB27 TB30 - TB40	

CHROME*plus*® bit set

- External hexagon drive to DIN 3126 / ISO 1173 - C 6,3
- Can be used by hand or with an electric screwdriver
- Includes CHROMEplus® mini bit reversing ratchet and 1/4" socket adaptor
- Ideally suited for fittings in trade and industry
- Precise and orderly arrangement of the popular 1/4" bits
- Chrome plated
- Special tool steel
- Includes mirror polished chrome box

1/4"

			kg
918.4500	31 pcs	CHROME*plus*® bit set	0,60
1 x		1/4" x 1/4"	
1 x		1/4"	
1 x		1/4"	
3 x		PH1 - PH2 - PH3	
3 x		PZ1 - PZ2 - PZ3	
3 x		4,5 - 5,5 - 6,5 mm	
3 x		4 - 5 - 6 mm	
7 x		TB10 - TB15 - TB20 - TB25 - TB27 - TB30 - TB40	
7 x		T10 - T15 - T20 - T25 - T27 - T30 - T40	

Bit set

- External hexagon drive to DIN 3126 / ISO 1173 - C 6,3
- Can be used by hand or with an electric screwdriver
- Includes quick release screwdriver bits and 1/4" socket adapter
- Ideally suited for fittings in trade and industry
- Precise and orderly arrangement of the popular 1/4" security bits
- Nickel plated
- Special tool steel
- In durable steel storage case

1/4"

			kg
911.2029	29 pcs	Bit set	0,88
1 x		1/4"	
1 x		1/4"	
9 x		TB8 - TB9 - TB10 - TB15 - TB20 - TB25 - TB27 - TB30 - TB40	
6 x		2 - 2,5 - 3 - 4 - 5 - 6 mm	
4 x		4 - 6 - 8 - 10 mm	
4 x		4 - 6 - 8 - 10 mm	
3 x		6 - 8 - 10 mm	
1 x		1/4"	

Torx PLUS bit set

- Ideal set compilation for Torx and Torx PLUS screws
- With external hexagon drive to DIN 3126 / ISO 1173 Form C 6,3 and C 8
- Can be used by hand or with an electric screwdriver
- Ideally suited for fittings in trade and industry
- Reinforced execution
- Nickel plated
- Special tool steel
- In durable plastic storage case

Applications for TX PLUS:
flywheel / timing belt housing cover / general engine / transmission

Applications for Tamper TX:
plug-in pumps of pump-line-nozzle systems, air mass meters, EWS3 immobiliser controller / injection pumps / alternators etc.

1/4"

			g
911.3120	22 pcs	Torx PLUS bit set	432
5 x		1/4": IP10 - IP15 - IP20 - IP25 - IP30	
5 x		10 mm: IP40 - IP45 - IP50 - IP55 - IP60	
5 x		1/4": TS10 - TS15 - TS20 - TS25 - TS30	
5 x		10 mm: TS40 - TS45 - TS50 - TS55 - TS60	
1 x		1/4"	
1 x		3/8" x 10 mm	

bit and drive socket set

- Ideal set of compilation for plumbing, heating and air conditioning
- External hexagon drive to DIN 3126 / ISO 1173 - C 6,3
- Can be used by hand or with an electric screwdriver
- Ideally suited for fittings in trade and industry
- Includes magnetic drive sockets and stud screwdrivers for a damage free inserting borin and unscrewing bolts and stud bolts
- Orderly arrangement of the popular 1/4" bits and drive sockets
- Sand blasted
- Special tool steel
- In durable plastic storage case

1/4"

			kg
122.2100	31 pcs	bit and drive socket set	0,67
4 x		7 - 8 - 10 - 13 mm	
4 x		M6 - M8 - M10 - M12	
1 x		50 mm	
5 x		PH1 - 3 x PH2 - PH3	
5 x		PZ1 - 3 x PZ2 - PZ3	
2 x		5,5 - 6,5 mm	
3 x		4 - 5 - 6 mm	
7 x		T10 - T15 - T20 - T25 - T27 - T30 - T40	

Bit set

- External hexagon drive to DIN 3126 / ISO 1173 - C 6,3
- Can be used by hand or with an electric screwdriver
- Includes bitholder and 1/4" socket adapter
- Ideally suited for fittings in trade and industry
- Orderly arrangement of the popular 1/4" bits
- Sand blasted
- Special tool steel
- In durable plastic storage case

1/4"

			kg
911.2026	100 pcs	Bit set	0,75
1 x		50 mm	
2 x		30 - 50 mm	
1 x		1/4"	
1 x		1/4"	
9 x		3 - 4 - 4,5 - 5 - 5,5 - 6 - 6,5 - 7 - 8 mm	
8 x		PH0 - PH1 - 5 x PH2 - PH3	
8 x		PZ0 - PZ1 - 5 x PZ2 - PZ3	
9 x		1,5 - 2 - 2,5 - 3 - 4 - 5 - 5,5 - 6 - 8 mm	
10 x		1/16" - 5/64" - 3/32" - 7/64" - 1/8" - 9/64" - 5/32" - 3/16" - 7/32" - 1/4"	
6 x		2 - 2,5 - 3 - 4 - 5 - 6 mm	
6 x		5/64" - 3/32" - 7/64" - 1/8" - 9/64" - 5/32"	
9 x		T8 - T10 - T15 - T20 - T25 - T27 - T30 - T40 - T45	
9 x		TB8 - TB10 - TB15 - TB20 - TB25 - TB27 - TB30 - TB35 - TB40	
3 x		M5 - M6 - M8	
3 x		#1 - #2 - #3	
4 x		#1 - #2 - #3 - #4	
4 x		4 - 6 - 8 - 10 mm	
3 x		6 - 8 - 10 mm	
4 x		#0 - #1 - #2 - #3	

Bit set

- External hexagon drive to DIN 3126 / ISO 1173 - C 6,3
- Can be used by hand or with an electric screwdriver
- Includes bit holder, bit ratchet, 1/4" socket adaptor and 1/4" mini-bit-screwdriver
- Ideally suited for fittings in trade and industry
- Precise and orderly arrangement of the popular 1/4" bits
- Sand-blasted
- Special tool steel
- In durable plastic storage case

1/4"

			kg
911.2080	99 pcs	Bit set	0,75
1 x		1/4"	
1 x		1/4"	
1 x		1/4"	
1 x		1/4"	
9 x		3 - 4 - 4,5 - 5 - 5,5 - 6 - 6,5 - 7 - 8 mm	
8 x		PH0 - PH1 - 5 x PH2 - PH3	
8 x		PZ0 - PZ1 - 5 x PZ2 - PZ3	
9 x		1,5 - 2 - 2,5 - 3 - 4 - 5 - 5,5 - 6 - 8 mm	
10 x		5/64" - 7/64" - 9/64" - 3/32" - 5/32" - 7/32" - 3/16" - 1/16" - 1/8" - 1/4"	
6 x		2 - 2,5 - 3 - 4 - 5 - 6 mm	
6 x		5/64" - 7/64" - 9/64" - 3/32" - 1/8" - 5/32"	
9 x		T8 - T10 - T15 - T20 - T25 - T27 - T30 - T40 - T45	
9 x		TB8 - TB10 - TB15 - TB20 - TB25 - TB27 - TB30 - TB35 - TB40	
3 x		M5 - M6 - M8	
3 x		#1 - #2 - #3	
4 x		#1 - #2 - #3 - #4	
4 x		4 - 6 - 8 - 10 mm	
3 x		6 - 8 - 10 mm	
4 x		#0 - #1 - #2 - #3	

Bit set

- External hexagon drive to DIN 3126 / ISO 1173 - C 6,3
- Can be used by hand or with an electric screwdriver
- Includes bit ratchet, 1/4" socket adaptor and 1/4" bit screwdriver
- Ideally suited for fittings in trade and industry
- Precise and orderly arrangement of the popular 1/4" bits
- Sand blasted
- Special tool steel
- In durable plastic storage case

1/4"

			kg
911.2085	122 pcs	Bit set	1,15
1 x		1/4"	
1 x		1/4"	
1 x		1/4"	
2 x		30 - 50 mm	
1 x		1/4"	
10 x		4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm	
10 x		5/32" - 3/16" - 7/32" - 1/4" - 9/32" - 5/16" - 1/2"	
9 x		3 - 4 - 4,5 - 5 - 5,5 - 6 - 6,5 - 7 - 8 mm	
5 x		PH0 - PH00 - PH1 - PH2 - PH3	
5 x		PZ0 - PZ00 - PZ1 - PZ2 - PZ3	
9 x		1,5 - 2 - 2,5 - 3 - 4 - 5 - 5,5 - 6 - 8 mm	
10 x		1/16" - 5/64" - 3/32" - 7/64" - 1/8" - 9/64" - 5/32" - 3/16" - 7/32" - 1/4"	
6 x		2 - 2,5 - 3 - 4 - 5 - 6 - 8 mm	
13 x		T5 - T6 - T7- T8 - T9 - T10 - T15 - T20 - T25 - T27 - T30 - T40 - T45	
9 x		TB8 - TB10 - TB15 - TB20 - TB25 - TB27 - TB30 - TB35 - TB40	
3 x		M5 - M6 - M8	
3 x		#1 - #2 - #3	
4 x		4 - 6 - 8 - 10 mm	
4 x		4 - 6 - 8 - 10 mm	
3 x		6 - 8 - 10 mm	
4 x		#0 - #1 - #2 - #3	
9 x		TS10 - TS15 - TS20 - TS25 - TS27 - TS30 - TS40 - TS45 - TS50	

1/4"

			kg
911.2027	99 pcs	Bit set	0,75
1 x		1/4"	
1 x		1/4"	
1 x		1/4"	
9 x		3 - 4 - 4,5 - 5 - 5,5 - 6 - 6,5 - 7 - 8	
5 x		PH0 - PH1 - 2 x PH2 - PH3	
5 x		PZ0 - PZ1 - 2 x PZ2 - PZ3	
9 x		1,5 - 2 - 2,5 - 3 - 4 - 5 - 5,5 - 6 - 8	
6 x		2 - 2,5 - 3 - 4 - 5 - 6	
6 x		5/64" - 3/32" - 7/64" -1/8" - 9/64" - 5/32"	
9 x		T8 - T10 - T15 - T20 - T25 - T27 - T30 - T40 - T45	
9 x		TB8 - TB10 - TB15 - TB20 - TB25 - TB27 - TB30 - TB35 - TB40	
3 x		M5 - M6 - M8	
3 x		#1 - #2 - #3	
4 x		#1 - #2 - #3 - #4	
4 x		4 - 6 - 8 - 10 mm	
3 x		6 - 8 - 10 mm	
4 x		#0 - #1 - #2 - #3	
3 x		4 - 5 - 6 mm	
3 x		TB15 - TB20 - TB30	
4 x		#1 - #2 - #3 - 4 #	
4 x		4 - 6 - 8 - 10 mm	
3 x		6 - 8 - 10 mm	

Bit set

- External hexagon drive to DIN 3126 / ISO 1173 - C 6,3
- Can be used by hand or with an electric screwdriver
- Includes quick release bit holder
- Ideally suited for fittings in trade and industry
- Orderly arrangement of the popular 1/4" bits
- Sand blasted
- Special tool steel
- In durable plastic storage case

1/4"

			kg
911.2031	113 pcs	Bit set	1,17

1 x		1/4"
1 x		1/4"
3 x		PH2
3 x		PZ2
7 x		T10 - T15 - 3 x T20 - T25 - T30
14 x		7 x 4 - 7 x 6 mm
21 x		7 x PH1 - 7 x PH2 - 7 x PH3
21 x		7 x PZ1 - 7 x PZ2 - 7 x PZ3
21 x		7 x 4 - 7 x 5 - 7 x 6 mm
14 x		2 x T10 - 2 x T15 - 2 x T20 - 2 x T25 - 2 x T27 - 2 x T30 - 2 x T40
7 x		TB10 - TB15 - TB20 - TB25 - TB27 - TB30 - TB40

Bit set

- External hexagon drive to DIN 3126 / ISO 1173 - C 6,3
- Can be used by hand or with an electric screwdriver
- Includes magnetic quick release bit holder and 1/4" socket adapter
- Practical belt holder
- Ideally suited for fittings in trade and industry
- Precise and orderly arrangement of the popular 1/4" bits
- Nickel plated
- Special tool steel
- In durable plastic case

1/4"

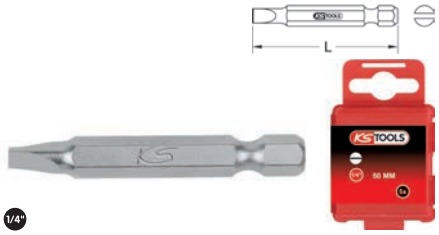
			kg
911.2008	208 pcs	Bit set	2,22

1 x		1/4": 205 mm
1 x		1/4": 60 mm
1 x		1/4"
12 x		1/4": 2 - 2,5 - 3 - 3,5 - 4 - 4,5 - 5 - 5,5 - 6 - 6,5 - 7 - 8 mm
18 x		1/4": PH00 - PH0 - 5 x PH1 - 5 x PH2 - 5 x PH3 - PH4
17 x		1/4": PZ00 - PZ0 - 5 x PZ1 - 5 x PZ2 - 4 x PZ3 - PZ4
12 x		1/4": 1,5 - 2 - 2,5 - 3 - 3,5 - 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 mm
10 x		1/4": 1/16" - 5/64" - 3/32" - 7/64" - 1/8" - 9/64" - 5/32" - 3/16" - 7/32" - 1/4"
6 x		1/4": 2 - 2,5 - 3 - 4 - 5 - 6 mm
6 x		1/4": 5/64" - 3/32" - 7/64" - 1/8" - 9/64" - 5/32"
3 x		1/4": 6 - 8 - 10 mm
13 x		1/4": T5 - T6 - T7 - T8 - T9 - T10 - T15 - T20 - T25 - T27 - T30 - T40 - T45
14 x		1/4": TB5 - TB6 - TB7 - TB8 - TB9 - TB10 - TB15 - TB20 - TB25 - TB27- TB30 - TB35 - TB40 - TB45
3 x		1/4": M5 - M6 - M8
3 x		1/4": #1 - #2 - #3
4 x		1/4": #1 - #2 - #3 - #4
4 x		1/4": 4 - 6 - 8 - 10 mm
4 x		1/4": #0 - #1 - #2 - #3
9 x		TS10 - TS15 - TS20 - TS25 - TS27 - TS30 - TS40 - TS45 - TS50
3 x		1/4": PH1 - PH2 - PH3
3 x		1/4": PZ1 - PZ2 - PZ3
5 x		1/4": 2,5 - 3 - 4 - 5 - 6 mm
7 x		1/4": TB10 - TB15 - TB20 - TB25 - TB27 - TB30 - TB40
3 x		1/4": PH1 - PH2 - PH3
3 x		1/4": PZ1 - PZ2 - PZ3
5 x		1/4": 2,5 - 3 - 4 - 5 - 6 mm
3 x		1/4": 6 - 8 - 10 mm
7 x		1/4": TB10 - TB15 - TB20 - TB25 - TB27 - TB30 - TB40
4 x		1/4": #1 - #2 - #3 - #4
4 x		1/4": 4 - 6 - 8 - 10 mm
10 x		4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm
10 x		5/32" - 3/16" - 7/32" - 1/4" - 9/32" - 5/16" - 11/32" - 3/8" - 7/16" - 1/2"

1/4" BITS 50 mm

Bit for slotted screws

- Slotted
- External hexagon drive to DIN 3126 / ISO 1173 - E 6,3
- Can be used by hand or with an electric screwdriver
- Ideally suited for fittings in trade and industry
- Nickel plated
- Special tool steel

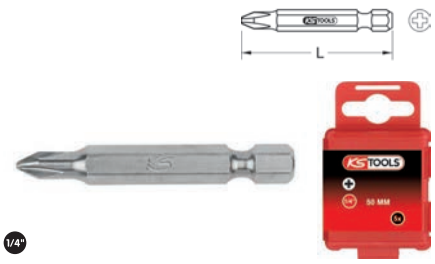


1/4"

	mm	L mm	Content	
911.3315	1,5	50,0	1	10
911.3316	1,5	50,0	5	60
911.3317	2,0	50,0	1	10
911.3318	2,0	50,0	5	60
911.3319	2,5	50,0	1	10
911.3320	2,5	50,0	5	60
911.2746	3,0	50,0	1	10
911.2747	3,0	50,0	5	60
911.3321	3,5	50,0	1	10
911.3322	3,5	50,0	5	60
911.2749	4,0	50,0	1	10
911.2750	4,0	50,0	5	60
911.2752	4,5	50,0	1	10
911.2753	4,5	50,0	5	60
911.2755	5,0	50,0	1	10
911.2756	5,0	50,0	5	60
911.2758	5,5	50,0	1	10
911.2759	5,5	50,0	5	60
911.2761	6,0	50,0	1	10
911.2762	6,0	50,0	5	60
911.2764	6,5	50,0	1	12
911.2765	6,5	50,0	5	74
911.2767	7,0	50,0	1	12
911.2768	7,0	50,0	5	74
911.3323	8,0	50,0	1	17
911.3324	8,0	50,0	5	106
911.3325	9,0	50,0	1	18
911.3326	9,0	50,0	5	114
911.3327	10,0	50,0	1	20
911.3328	10,0	50,0	5	124
911.3329	11,0	50,0	1	20
911.3330	11,0	50,0	5	124
911.3331	12,0	50,0	1	22
911.3332	12,0	50,0	5	133

Bit for phillips screws PH

- PH
- External hexagon drive to DIN 3126 / ISO 1173 - E 6,3
- Can be used by hand or with an electric screwdriver
- Ideally suited for fittings in trade and industry
- Nickel plated
- Special tool steel



1/4"

		L mm	Content	
911.3339	PH0	50,0	1	10
911.3340	PH0	50,0	5	60
911.2210	PH1	50,0	1	10
911.2211	PH1	50,0	5	60
911.2213	PH2	50,0	1	10
911.2214	PH2	50,0	5	60
911.2216	PH3	50,0	1	10
911.2217	PH3	50,0	5	60
911.3341	PH4	50,0	1	12
911.3342	PH4	50,0	5	74

Bit for pozidriv screws PZ

- PZ
- External hexagon drive to DIN 3126 / ISO 1173 - E 6,3
- Ideally suited for fittings in trade and industry
- Can be used by hand or with an electric screwdriver
- Nickel plated
- Special tool steel

1/4"

		L mm	Content	
911.3347	PZ0	50,0	1	10
911.3348	PZ0	50,0	5	60
911.2228	PZ1	50,0	1	10
911.2229	PZ1	50,0	5	60
911.2231	PZ2	50,0	1	10
911.2232	PZ2	50,0	5	60
911.2234	PZ3	50,0	1	10
911.2235	PZ3	50,0	5	60
911.3349	PZ4	50,0	1	12
911.3350	PZ4	50,0	5	74

Bit for hexagon screws

- Hexagon socket
- External hexagon drive to DIN 3126 / ISO 1173 - E 6,3
- Can be used by hand or with an electric screwdriver
- Ideally suited for fittings in trade and industry
- Nickel plated
- Special tool steel

1/4"

	mm	L mm	Content	
911.2800	1,5	50,0	1	10
911.2801	1,5	50,0	5	60
911.2803	2,0	50,0	1	10
911.2804	2,0	50,0	5	60
911.2806	2,5	50,0	1	10
911.2807	2,5	50,0	5	60
911.2809	3,0	50,0	1	10
911.2810	3,0	50,0	5	60
911.2812	4,0	50,0	1	10
911.2813	4,0	50,0	5	60
911.2815	5,0	50,0	1	10
911.2816	5,0	50,0	5	60
911.2818	5,5	50,0	1	10
911.2819	5,5	50,0	5	60
911.2821	6,0	50,0	1	10
911.2822	6,0	50,0	5	60
911.2824	7,0	50,0	1	12
911.2825	7,0	50,0	5	74
911.3578	8,0	50,0	1	17
911.3579	8,0	50,0	5	100
911.3580	10,0	50,0	1	20
911.3581	10,0	50,0	5	116

Bit for Torx screws

- Torx
- External hexagon drive to DIN 3126 / ISO 1173 - E 6,3
- Ideally suited for fittings in trade and industry
- Can be used by hand or with an electric screwdriver
- Nickel plated
- Special tool steel

1/4"

		L mm	Content	
911.3365	T1	50,0	1	10
911.3366	T1	50,0	5	60
911.3367	T2	50,0	1	10
911.3368	T2	50,0	5	60
911.3369	T3	50,0	1	10
911.3370	T3	50,0	5	60
911.3371	T4	50,0	1	10
911.3372	T4	50,0	5	60
911.3373	T5	50,0	1	10
911.3374	T5	50,0	5	60
911.3375	T6	50,0	1	10
911.3376	T6	50,0	5	60
911.2716	T7	50,0	1	10
911.2717	T7	50,0	5	60
911.2719	T8	50,0	1	10
911.2720	T8	50,0	5	60
911.2722	T9	50,0	1	10
911.2723	T9	50,0	5	60
911.2725	T10	50,0	1	10
911.2726	T10	50,0	5	60
911.2728	T15	50,0	1	10
911.2729	T15	50,0	5	60
911.2731	T20	50,0	1	10
911.2732	T20	50,0	5	60
911.2734	T25	50,0	1	10
911.2735	T25	50,0	5	60
911.2737	T27	50,0	1	10
911.2738	T27	50,0	5	60
911.2740	T30	50,0	1	12
911.2741	T30	50,0	5	74
911.2743	T40	50,0	1	12
911.2744	T40	50,0	5	74

Bit for Torx tamperproof screws

- For tamperproof Torx
- External hexagon drive to DIN 3126 / ISO 1173 - E 6,3
- Ideally suited for fittings in trade and industry
- Can be used by hand or with an electric screwdriver
- Nickel plated
- Special tool steel

1/4"

		L mm	Content	
911.7833	TB5	50,0	1	10
911.8393	TB5	50,0	5	74
911.7834	TB6	50,0	1	10
911.8394	TB6	50,0	5	74
911.2770	TB7	50,0	1	10
911.2771	TB7	50,0	5	60
911.2773	TB8	50,0	1	10
911.2774	TB8	50,0	5	60
911.2776	TB9	50,0	1	10
911.2777	TB9	50,0	5	60
911.2779	TB10	50,0	1	10
911.2780	TB10	50,0	5	60
911.2782	TB15	50,0	1	10
911.2783	TB15	50,0	5	60
911.2785	TB20	50,0	1	10
911.2786	TB20	50,0	5	60
911.2788	TB25	50,0	1	10
911.2789	TB25	50,0	5	60
911.2791	TB27	50,0	1	10
911.2792	TB27	50,0	5	60
911.2794	TB30	50,0	1	12
911.2795	TB30	50,0	5	74
911.2797	TB40	50,0	1	12
911.2798	TB40	50,0	5	74

bit for Torx PLUS screws

- Torx PLUS
- External hexagon drive to DIN 3126 / ISO 1173 - C 6,3
- Can be used by hand or with an electric screwdriver
- Ideally suited for fittings in trade and industry
- Nickel plated
- Special tool steel

1/4"

		L mm	Content	
911.8329	IP 1	50,0	1	10
911.8331	IP 2	50,0	1	10
911.8332	IP 3	50,0	1	10
911.8333	IP 4	50,0	1	10
911.8337	IP 6	50,0	1	10
911.8343	IP 9	50,0	1	10
911.8344	IP 10	50,0	1	10
911.8346	IP 15	50,0	1	10
911.8348	IP 20	50,0	1	10
911.8351	IP 25	50,0	1	10
911.8353	IP 27	50,0	1	10
911.8355	IP 30	50,0	1	12
911.8357	IP 40	50,0	1	12

Bit for Torx PLUS tamperproof screws

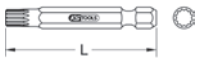
- Torx PLUS
- External hexagon drive to DIN 3126 / ISO 1173 - C 6,3
- Can be used by hand or with an electric screwdriver

1/4"

		L mm	Content	
911.8361	IPR 10	50,0	1	12
911.8363	IPR 15	50,0	1	12
911.8365	IPR 20	50,0	1	12
911.8367	IPR 25	50,0	1	12
911.8369	IPR 27	50,0	1	12
911.8372	IPR 30	50,0	1	12

Bit for spline screws

- Spline
- External hexagon drive to DIN 3126 / ISO 1173 - E 6,3
- Ideally suited for fittings in trade and industry
- Can be used by hand or with an electric screwdriver
- Nickel plated
- Special tool steel



1/4"

		L mm	Content	
911.2701	M3	50,0	1	10
911.2702	M3	50,0	5	60
911.2704	M4	50,0	1	10
911.2705	M4	50,0	5	60
911.2707	M5	50,0	1	10
911.2708	M5	50,0	5	60
911.2710	M6	50,0	1	10
911.2711	M6	50,0	5	64
911.2713	M8	50,0	1	15
911.2714	M8	50,0	5	89
911.7832	M10	50,0	1	25

1/4" BITS 75 mm

Bit for slotted screws

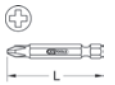
- Slotted
- External hexagon drive to DIN 3126 / ISO 1173 - E 6,3
- Can be used by hand or with an electric screwdriver
- Ideally suited for fittings in trade and industry
- Nickel plated
- Special tool steel

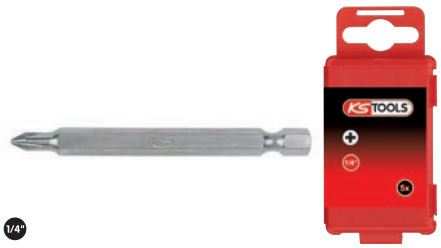
1/4"

	mm	L mm	Content	
911.7817	1,5	75,0	1	18
911.8403	1,5	75,0	5	108
911.7818	2,0	75,0	1	18
911.8404	2,0	75,0	5	108
911.7819	2,5	75,0	1	18
911.8405	2,5	75,0	5	108
911.7533	3,0	75,0	1	20
911.7733	3,0	75,0	5	110
911.7821	3,5	75,0	1	18
911.8406	3,5	75,0	5	108
911.7534	4,0	75,0	1	20
911.7734	4,0	75,0	5	110
911.7822	4,5	75,0	1	18
911.8407	4,5	75,0	5	108
911.7535	5,0	75,0	1	20
911.7735	5,0	75,0	5	110
911.7823	5,5	75,0	1	18
911.8408	5,5	75,0	5	108
911.7536	6,0	75,0	1	20
911.7736	6,0	75,0	5	110
911.7824	6,5	75,0	1	18
911.8409	6,5	75,0	5	108
911.7537	7,0	75,0	1	17
911.7737	7,0	75,0	5	108
911.7825	8,0	75,0	1	20
911.8421	8,0	75,0	5	124
911.7826	9,0	75,0	1	25
911.8422	9,0	75,0	5	150
911.7827	10,0	75,0	1	25
911.8423	10,0	75,0	5	150
911.7828	11,0	75,0	1	30
911.8424	11,0	75,0	5	175
911.7829	12,0	75,0	1	35
911.8425	12,0	75,0	5	175

Bit for phillips screws PH

- PH
- External hexagon drive to DIN 3126 / ISO 1173 - E 6,3
- Can be used by hand or with an electric screwdriver
- Ideally suited for fittings in trade and industry
- Nickel plated
- Special tool steel



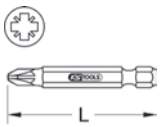


1/4"

		L mm	Content	
911.7814	PH000	75,0	1	20
911.8388	PH000	75,0	5	110
911.7815	PH00	75,0	1	20
911.8389	PH00	75,0	5	110
911.7816	PH0	75,0	1	20
911.8391	PH0	75,0	5	110
911.7530	PH1	75,0	1	20
911.7730	PH1	75,0	5	110
911.7531	PH2	75,0	1	20
911.7731	PH2	75,0	5	110
911.7539	PH3	75,0	1	20
911.7739	PH3	75,0	5	110

Bit for pozidriv screws PZ

- PZ
- External hexagon drive to DIN 3126 / ISO 1173 - E 6,3
- Can be used by hand or with an electric screwdriver
- Ideally suited for fittings in trade and industry
- Nickel plated
- Special tool steel



1/4"

		L mm	Content	
911.7527	PZ1	75,0	1	20
911.7727	PZ1	75,0	5	110
911.7528	PZ2	75,0	1	20
911.7728	PZ2	75,0	5	110
911.7529	PZ3	75,0	1	20
911.7729	PZ3	75,0	5	110

Bit for hexagon screws

- Hexagon socket
- External hexagon drive to DIN 3126 / ISO 1173 - E 6,3
- Can be used by hand or with an electric screwdriver
- Ideally suited for fittings in trade and industry
- Nickel plated
- Special tool steel

1/4"

	mm	L mm	Content	
911.7558	2,0	75,0	1	20
911.7758	2,0	75,0	5	110
911.7559	2,5	75,0	1	20
911.7759	2,5	75,0	5	110
911.7560	3,0	75,0	1	20
911.7760	3,0	75,0	5	110
911.7561	4,0	75,0	1	20
911.7761	4,0	75,0	5	110
911.7562	5,0	75,0	1	20
911.7762	5,0	75,0	5	110
911.7563	6,0	75,0	1	20
911.7763	6,0	75,0	5	110

Bit for Torx screws

- Torx
- External hexagon drive to DIN 3126 / ISO 1173 - E 6,3
- Can be used by hand or with an electric screwdriver
- Ideally suited for fittings in trade and industry
- Nickel plated
- Special tool steel

1/4"

		L mm	Content	
911.3377	T7	75,0	1	20
911.3378	T7	75,0	5	110
911.3379	T8	75,0	1	20
911.3380	T8	75,0	5	110
911.3381	T9	75,0	1	20
911.3382	T9	75,0	5	110
911.7551	T10	75,0	1	20
911.7751	T10	75,0	5	110
911.7552	T15	75,0	1	20
911.7752	T15	75,0	5	110
911.7553	T20	75,0	1	20
911.7753	T20	75,0	5	110
911.7554	T25	75,0	1	20
911.7754	T25	75,0	5	110
911.7555	T27	75,0	1	20
911.7755	T27	75,0	5	110
911.7556	T30	75,0	1	17
911.7756	T30	75,0	5	108
911.7557	T40	75,0	1	18
911.7757	T40	75,0	5	108

Bit for hexagon tamperproof screws

- Tamperproof hexagon
- External hexagon drive to DIN 3126 / ISO 1173 - E 6,3
- Can be used by hand or with an electric screwdriver
- Ideally suited for fittings in trade and industry
- Nickel plated
- Special tool steel

1/4"

	mm	L mm	Content	g
911.7510	2,0	75,0	1	20
911.7710	2,0	75,0	5	110
911.7511	2,5	75,0	1	20
911.7711	2,5	75,0	5	110
911.7512	3,0	75,0	1	20
911.7712	3,0	75,0	5	110
911.7513	4,0	75,0	1	20
911.7713	4,0	75,0	5	110
911.7514	5,0	75,0	1	20
911.7714	5,0	75,0	5	110
911.7515	6,0	75,0	1	20
911.7715	6,0	75,0	5	110

Bit for Torx tamperproof screws

- For tamperproof Torx
- External hexagon drive to DIN 3126 / ISO 1173 - E 6,3
- Can be used by hand or with an electric screwdriver
- Ideally suited for fittings in trade and industry
- Nickel plated
- Special tool steel

1/4"

		L mm	Content	g
911.7801	TB5	75,0	1	20
911.8374	TB5	75,0	5	110
911.7802	TB6	75,0	1	20
911.8375	TB6	75,0	5	110
911.7803	TB7	75,0	1	20
911.8376	TB7	75,0	5	110
911.7501	TB8	75,0	1	20
911.7701	TB8	75,0	5	110
911.7502	TB10	75,0	1	20
911.7702	TB10	75,0	5	110
911.7503	TB15	75,0	1	20
911.7703	TB15	75,0	5	110
911.7504	TB20	75,0	1	20
911.7704	TB20	75,0	5	110
911.7505	TB25	75,0	1	20
911.7705	TB25	75,0	5	110
911.7506	TB27	75,0	1	20
911.7706	TB27	75,0	5	110
911.7507	TB30	75,0	1	18
911.7707	TB30	75,0	5	107
911.7508	TB35	75,0	1	18
911.7708	TB35	75,0	5	107
911.7509	TB40	75,0	1	18
911.7709	TB40	75,0	5	107

Bit for security screws

- Security
- External hexagon drive to DIN 3126 / ISO 1173 - E 6,3
- Can be used by hand or with an electric screwdriver
- Ideally suited for fittings in trade and industry
- Nickel plated
- Special tool steel

1/4"

	mm	L mm	Content	g
911.7523	4,0	75,0	1	20
911.7723	4,0	75,0	5	110
911.7524	6,0	75,0	1	20
911.7724	6,0	75,0	5	110
911.7525	8,0	75,0	1	18
911.7725	8,0	75,0	5	108
911.7526	10,0	75,0	1	18
911.7726	10,0	75,0	5	108
911.7812	12,0	75,0	1	20
911.8387	12,0	75,0	5	110

Bit for Torq-Set® screws

- Torq-Set®
- External hexagon drive to DIN 3126 / ISO 1173 - E 6,3
- Can be used by hand or with an electric screwdriver
- Ideally suited for fittings in trade and industry
- Nickel plated
- Special tool steel

1/4"

		L mm	Content	g
911.7804	#1	75,0	1	18
911.8378	#1	75,0	5	110
911.7805	#2	75,0	1	18
911.8379	#2	75,0	5	110
911.7806	#3	75,0	1	18
911.8381	#3	75,0	5	110
911.7807	#4	75,0	1	18
911.8382	#4	75,0	5	110
911.7516	#6	75,0	1	20
911.7716	#6	75,0	5	110
911.7517	#8	75,0	1	17
911.7717	#8	75,0	5	18
911.7518	#10	75,0	1	18
911.7718	#10	75,0	5	18

Bit for TRIWING® screws

- TRIWING®
- External hexagon drive to DIN 3126 / ISO 1173 - E 6,3
- Can be used by hand or with an electric screwdriver
- Ideally suited for fittings in trade and industry
- Nickel plated
- Special tool steel

1/4"

		L mm	Content	g
911.7808	#1	75,0	1	18
911.8384	#1	75,0	5	110
911.7809	#2	75,0	1	18
911.8385	#2	75,0	5	110
911.7811	#3	75,0	1	18
911.8386	#3	75,0	5	110
911.7519	#4	75,0	1	20
911.7719	#4	75,0	5	110
911.7520	#6	75,0	1	20
911.7720	#6	75,0	5	110
911.7521	#8	75,0	1	18
911.7721	#8	75,0	5	18
911.7522	#10	75,0	1	18
911.7722	#10	75,0	5	20

1/4" BIT SETS 75 mm

Bit set

- External hexagon drive to DIN 3126 / ISO 1173 - E 6,3
- Can be used by hand or with an electric screwdriver
- Ideally suited for fittings in trade and industry
- Orderly arrangement of the popular 1/4" bits
- Nickel plated
- Special tool steel
- In durable plastic storage case

1/4"

			kg
911.7550	32 pcs	Bit set	0,67

4 x		4 - 5 - 6 - 7 mm
6 x		1 x PH1 - 3 x PH2 - 2 x PH3
9 x		2 x PZ1 - 4 x PZ2 - 3 x PZ3
6 x		2 - 2,5 - 3 - 4 - 5 - 6 mm
7 x		T10 - T15 - T20 - T25 - T27 - T30 - T40

Bit set

- External hexagon drive to DIN 3126 / ISO 1173 - E 6,3
- Can be used by hand or with an electric screwdriver
- Ideally suited for fittings in trade and industry
- Orderly arrangement of the popular 1/4" security bits
- Nickel plated
- Special tool steel
- In durable plastic storage case

1/4"

			kg
911.7532	32 pcs	Bit set	0,65
1 x		6 mm	
2 x		PH1 - PH2	
3 x		PZ1 - PZ2 - PZ3	
6 x		2 - 2,5 - 3 - 4 - 5 - 6 mm	
9 x		TB8 - TB10 - TB15 - TB20 - TB25 - TB27 - TB30 - TB35 - TB40	
4 x		#1 - #2 - #3 - #4	
4 x		4 - 6 - 8 - 10 mm	
3 x		6 - 8 - 10 mm	

Bit set

- External hexagon drive to DIN 3126 / ISO 1173 - C 6,3
- Can be used by hand or with an electric screwdriver
- Includes quick release bit holder
- Ideally suited for fittings in trade and industry
- Orderly arrangement of the popular 1/4" bits
- Sand blasted
- Special tool steel
- In durable plastic storage case

1/4"

			kg
911.2031	113 pcs	Bit set	1,17
1 x		1/4"	
1 x		1/4"	
3 x		PH2	
3 x		PZ2	
7 x		T10 - T15 - 3 x T20 - T25 - T30	
14 x		7 x 4 - 7 x 6 mm	
21 x		7 x PH1 - 7 x PH2 - 7 x PH3	
21 x		7 x PZ1 - 7 x PZ2 - 7 x PZ3	
21 x		7 x 4 - 7 x 5 - 7 x 6 mm	
14 x		2 x T10 - 2 x T15 - 2 x T20 - 2 x T25 - 2 x T27 - 2 x T30 - 2 x T40	
7 x		TB10 - TB15 - TB20 - TB25 - TB27 - TB30 - TB40	

Bit set

- External hexagon drive to DIN 3126 / ISO 1173 - C 6,3
- Can be used by hand or with an electric screwdriver
- Includes bitholder and 1/4" socket adapter
- Ideally suited for fittings in trade and industry
- Orderly arrangement of the popular 1/4" bits
- Sand blasted
- Special tool steel
- In durable plastic storage case

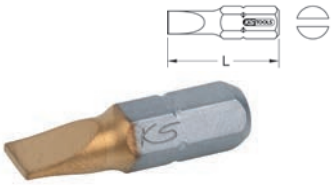
1/4"

			kg
911.2027	99 pcs	Bit set	0,75
1 x		1/4"	
1 x		1/4"	
1 x		1/4"	
9 x		3 - 4 - 4,5 - 5 - 5,5 - 6 - 6,5 - 7 - 8	
5 x		PH0 - PH1 - 2 x PH2 - PH3	
5 x		PZ0 - PZ1 - 2 x PZ2 - PZ3	
9 x		1,5 - 2 - 2,5 - 3 - 4 - 5 - 5,5 - 6 - 8	
6 x		2 - 2,5 - 3 - 4 - 5 - 6	
6 x		5/64" - 3/32" - 7/64" -1/8" - 9/64" - 5/32"	
9 x		T8 - T10 - T15 - T20 - T25 - T27 - T30 - T40 - T45	
9 x		TB8 - TB10 - TB15 - TB20 - TB25 - TB27 - TB30 - TB35 - TB40	
3 x		M5 - M6 - M8	
3 x		#1 - #2 - #3	
4 x		#1 - #2 - #3 - #4	
4 x		4 - 6 - 8 - 10 mm	
3 x		6 - 8 - 10 mm	
4 x		#0 - #1 - #2 - #3	
3 x		4 - 5 - 6 mm	
3 x		TB15 - TB20 - TB30	
4 x		#1 - #2 - #3 - 4 #	
4 x		4 - 6 - 8 - 10 mm	
3 x		6 - 8 - 10 mm	

1/4" TIN BITS 25 mm

TIN bit for slotted screws

- Slotted
- External hexagon drive to DIN 3126 / ISO 1173 - C 6,3
- Can be used by hand or with an electric screwdriver
- Ideally suited for fittings in trade and industry
- Extreme hard coating
- Especially for constant load during industrial applications
- Titanium nitride coated
- Special tool steel

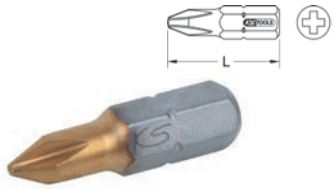


1/4"

		L mm	Content	g
911.2620	4,0	25,0	1	5
911.2621	4,0	25,0	5	35
911.2622	5,5	25,0	1	6
911.2623	5,5	25,0	5	40
911.2632	6,5	25,0	1	6
911.2633	6,5	25,0	5	40
911.2634	8,0	25,0	1	6
911.2635	8,0	25,0	5	40

TIN bit for Phillips screws PH

- PH
- External hexagon drive to DIN 3126 / ISO 1173 - C 6,3
- Can be used by hand or with an electric screwdriver
- Ideally suited for fittings in trade and industry
- Extreme hard coating
- Especially for constant load during industrial applications
- Titanium nitride coated
- Special tool steel

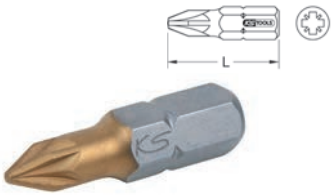


1/4"

		L mm	Content	g
911.2636	PH1	25,0	1	5
911.2637	PH1	25,0	5	35
911.2638	PH2	25,0	1	6
911.2639	PH2	25,0	5	40
911.2640	PH3	25,0	1	6
911.2641	PH3	25,0	5	40

TIN bit for pozidriv screws PZ

- PZ
- External hexagon drive to DIN 3126 / ISO 1173 - C 6,3
- Can be used by hand or with an electric screwdriver
- Ideally suited for fittings in trade and industry
- Extreme hard coating
- Especially for constant load during industrial applications
- Titanium nitride coated
- Special tool steel

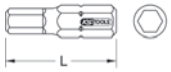


1/4"

		L mm	Content	g
911.2648	PZ1	25,0	1	5
911.2649	PZ1	25,0	5	35
911.2624	PZ2	25,0	1	6
911.2625	PZ2	25,0	5	40
911.2626	PZ3	25,0	1	6
911.2627	PZ3	25,0	5	40

TIN bit for hexagon screws

- Hexagon socket
- External hexagon drive to DIN 3126 / ISO 1173 - C 6,3
- Can be used by hand or with an electric screwdriver
- Ideally suited for fittings in trade and industry
- Extreme hard coating
- Especially for constant load during industrial applications
- Titanium nitride coated
- Special tool steel



1/4"

	mm	L mm	Content	g
911.3664	2,0	25,0	1	6
911.3665	2,0	25,0	5	40
911.3666	2,5	25,0	1	6
911.3667	2,5	25,0	5	40
911.3668	3,0	25,0	1	6
911.3669	3,0	25,0	5	40
911.3670	4,0	25,0	1	6
911.3671	4,0	25,0	5	40
911.3672	5,0	25,0	1	6
911.3673	5,0	25,0	5	40
911.3674	6,0	25,0	1	6
911.3675	6,0	25,0	5	40
911.3676	8,0	25,0	1	8
911.3677	8,0	25,0	5	55
911.3678	10,0	25,0	1	10
911.3679	10,0	25,0	5	65

TIN bit for Torx screws

- Torx
- External hexagon drive to DIN 3126 / ISO 1173 - C 6,3
- Can be used by hand or with an electric screwdriver
- Ideally suited for fittings in trade and industry
- Extreme hard coating
- Especially for constant load during industrial applications
- Titanium nitride coated
- Special tool steel

1/4"

		L mm	Content	g
911.3650	T10	25,0	1	6
911.3651	T10	25,0	5	40
911.3652	T15	25,0	1	6
911.3653	T15	25,0	5	40
911.3654	T20	25,0	1	6
911.3655	T20	25,0	5	40
911.3656	T25	25,0	1	6
911.3657	T25	25,0	5	40
911.3658	T27	25,0	1	6
911.3659	T27	25,0	5	40
911.3660	T30	25,0	1	6
911.3661	T30	25,0	5	40
911.3662	T40	25,0	1	6
911.3663	T40	25,0	5	40

TIN bit for phillips screws PH

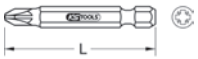
- PH
- External hexagon drive to DIN 3126 / ISO 1173 form C 8
- Can be used by hand, electric screwdriver and impact drivers
- Ideally suited for fittings in trade and industry
- Extreme hard coating
- Especially for constant load during industrial applications
- Titanium nitride coated
- Special tool steel

1/4"

		L mm	Content	g
911.2642	PH1	50,0	1	10
911.2643	PH1	50,0	5	60
911.2644	PH2	50,0	1	10
911.2645	PH2	50,0	5	60
911.2646	PH3	50,0	1	10
911.2647	PH3	50,0	5	60

TIN bit for pozidriv screws PZ

- PZ
- External hexagon drive to DIN 3126 / ISO 1173 - E 6,3
- Can be used by hand or with an electric screwdriver
- Ideally suited for fittings in trade and industry
- Extreme hard coating
- Especially for constant load during industrial applications
- Titanium nitride coated
- Special tool steel



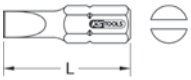
1/4"

		L mm	Content	g
911.3641	PZ1	50,0	1	10
911.3642	PZ1	50,0	5	60
911.3643	PZ2	50,0	1	10
911.3644	PZ2	50,0	5	60
911.3645	PZ3	50,0	1	10
911.3646	PZ3	50,0	5	60

1/4" TORSION*power* BITS 25 mm

TORSION*power* bit for slotted screws

- Slotted
- External hexagon drive to DIN 3126 / ISO 1173 - C 6,3
- Can be used by hand or with an electric screwdriver
- Color coding
- Ideally suited for fittings in trade and industry
- With torsion zone
- To cushion high level torque
- Longer service life
- Nickel plated
- Special tool steel

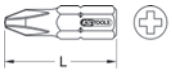


1/4"

	mm	L mm	Content	g
918.3305	3,0	25,0	1	4
918.3306	3,0	25,0	5	40
918.3310	4,0	25,0	1	4
918.3311	4,0	25,0	5	40
918.3315	5,0	25,0	1	5
918.3316	5,0	25,0	5	40
918.3320	6,0	25,0	1	5
918.3321	6,0	25,0	5	40

TORSION*power* bit for phillips screws PH

- PH
- External hexagon drive to DIN 3126 / ISO 1173 - C 6,3
- Can be used by hand or with an electric screwdriver
- Color coding
- Ideally suited for fittings in trade and industry
- With torsion zone
- To cushion high level torque
- Longer service life
- Nickel plated
- Special tool steel

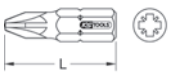


1/4"

		L mm	Content	g
918.3105	PH1	25,0	1	4
918.3106	PH1	25,0	5	28
918.3110	PH2	25,0	1	4
918.3111	PH2	25,0	5	40
918.3115	PH3	25,0	1	5
918.3116	PH3	25,0	5	40

TORSION*power* bit for pozidriv screws PZ

- PZ
- External hexagon drive to DIN 3126 / ISO 1173 - C 6,3
- Can be used by hand or with an electric screwdriver
- Color coding
- Ideally suited for fittings in trade and industry
- With torsion zone
- To cushion high level torque
- Longer service life
- Nickel plated
- Special tool steel

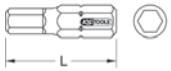


1/4"

		L mm	Content	g
918.3205	PZ1	25,0	1	4
918.3206	PZ1	25,0	5	40
918.3210	PZ2	25,0	1	4
918.3211	PZ2	25,0	5	40
918.3215	PZ3	25,0	1	5
918.3216	PZ3	25,0	5	40

TORSION*power* bit for hexagon screws

- Hexagon socket
- External hexagon drive to DIN 3126 / ISO 1173 - C 6,3
- Can be used by hand or with an electric screwdriver
- Color coding
- Ideally suited for fittings in trade and industry
- With torsion zone
- To cushion high level torque
- Longer service life
- Nickel plated
- Special tool steel



1/4"

	mm	L mm	Content	
918.3401	1,5	25,0	1	6
918.3402	1,5	25,0	5	40
918.3403	2	25,0	1	6
918.3404	2	25,0	5	40
918.3407	2,5	25,0	1	6
918.3408	2,5	25,0	5	40
918.3405	3	25,0	1	10
918.3406	3	25,0	5	40
918.3410	4	25,0	1	4
918.3411	4	25,0	5	40
918.3415	5	25,0	1	6
918.3416	5	25,0	5	40
918.3420	6	25,0	1	6
918.3421	6	25,0	5	40
918.3425	7	25,0	1	4
918.3426	7	25,0	5	40
918.3430	8	25,0	1	6
918.3431	8	25,0	5	40

TORSION*power* bit for Torx screws

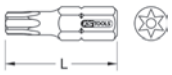
- Torx
- External hexagon drive to DIN 3126 / ISO 1173 - C 6,3
- Can be used by hand or with an electric screwdriver
- Color coding
- Ideally suited for fittings in trade and industry
- With torsion zone
- To cushion high level torque
- Longer service life
- Nickel plated
- Special tool steel

1/4"

		L mm	Content	
918.4541	T6	25,0	1	4
918.4542	T6	25,0	5	40
918.4543	T7	25,0	1	4
918.4544	T7	25,0	5	40
918.4545	T8	25,0	1	4
918.4546	T8	25,0	5	40
918.4547	T9	25,0	1	4
918.4548	T9	25,0	5	40
918.3505	T10	25,0	1	4
918.3506	T10	25,0	5	40
918.3510	T15	25,0	1	4
918.3511	T15	25,0	5	40
918.3515	T20	25,0	1	4
918.3516	T20	25,0	5	40
918.3520	T25	25,0	1	4
918.3521	T25	25,0	5	40
918.3525	T27	25,0	1	5
918.3526	T27	25,0	5	40
918.3530	T30	25,0	1	5
918.3531	T30	25,0	5	34
918.3535	T40	25,0	1	6
918.3536	T40	25,0	5	37

TORSION*power* bit for Torx tamperproof screws

- For tamperproof Torx
- External hexagon drive to DIN 3126 / ISO 1173 - C 6,3
- Can be used by hand or with an electric screwdriver
- Tamperproof
- Color coding
- Ideally suited for fittings in trade and industry
- With torsion zone
- To cushion high level torque
- Longer service life
- Nickel plated
- Special tool steel



1/4"

		L mm	Content	
918.3605	TB10	25,0	1	4
918.3606	TB10	25,0	5	40
918.3610	TB15	25,0	1	4
918.3611	TB15	25,0	5	40
918.3615	TB20	25,0	1	4
918.3616	TB20	25,0	5	40
918.3620	TB25	25,0	1	4
918.3621	TB25	25,0	5	40
918.3625	TB27	25,0	1	5
918.3626	TB27	25,0	5	40
918.3630	TB30	25,0	1	5
918.3631	TB30	25,0	5	32
918.3635	TB40	25,0	1	6
918.3636	TB40	25,0	5	36

1/4" TORSION*power* BITS 75 mm

TORSION*power* bit for slotted screws

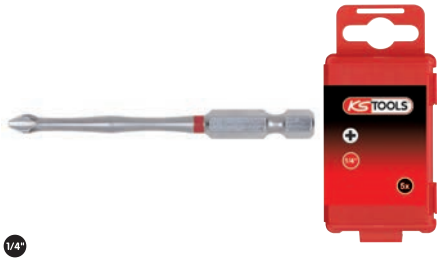
- Slotted
- External hexagon drive to DIN 3126 / ISO 1173 - C 6,3
- Can be used by hand or with an electric screwdriver
- Color coding
- Ideally suited for fittings in trade and industry
- With torsion zone
- To cushion high level torque
- Longer service life
- Nickel plated
- Special tool steel

1/4"

	mm	L mm	Content	
918.3350	3,0	75,0	1	20
918.3351	3,0	75,0	5	9
918.3355	4,0	75,0	1	20
918.3356	4,0	75,0	5	9
918.3360	5,0	75,0	1	20
918.3361	5,0	75,0	5	11
918.3365	6,0	75,0	1	20
918.3366	6,0	75,0	5	14

TORSION*power* bit for phillips screws PH

- PH
- External hexagon drive to DIN 3126 / ISO 1173 - C 6,3
- Can be used by hand or with an electric screwdriver
- Color coding
- Ideally suited for fittings in trade and industry
- With torsion zone
- To cushion high level torque
- Longer service life
- Nickel plated
- Special tool steel

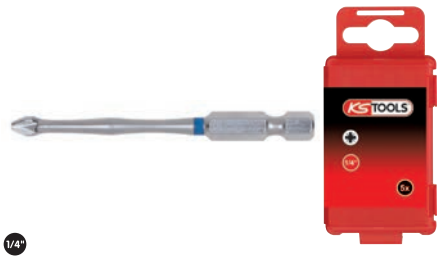


1/4"

		L mm	Content	
918.3150	PH1	75,0	1	20
918.3151	PH1	75,0	5	69
918.3155	PH2	75,0	1	20
918.3156	PH2	75,0	5	81
918.3160	PH3	75,0	1	20
918.3161	PH3	75,0	5	89

TORSION*power* bit for pozidriv screws PZ

- PZ
- External hexagon drive to DIN 3126 / ISO 1173 - C 6,3
- Can be used by hand or with an electric screwdriver
- Color coding
- Ideally suited for fittings in trade and industry
- With torsion zone
- To cushion high level torque
- Longer service life
- Nickel plated
- Special tool steel



1/4"

		L mm	Content	
918.3250	PZ1	75,0	1	20
918.3251	PZ1	75,0	5	69
918.3255	PZ2	75,0	1	20
918.3256	PZ2	75,0	5	80
918.3260	PZ3	75,0	1	20
918.3261	PZ3	75,0	5	89

TORSION*power* bit for hexagon screws

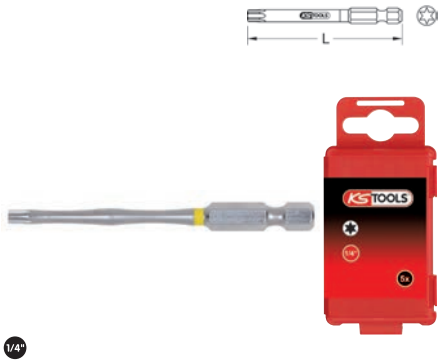
- Hexagon socket
- External hexagon drive to DIN 3126 / ISO 1173 - C 6,3
- Can be used by hand or with an electric screwdriver
- Color coding
- Ideally suited for fittings in trade and industry
- With torsion zone
- To cushion high level torque
- Longer service life
- Nickel plated
- Special tool steel

1/4"

	⬢ mm	L mm	Content	
918.3450	3	75,0	1	20
918.3451	3	75,0	5	1
918.3455	4	75,0	1	20
918.3456	4	75,0	5	12
918.3460	5	75,0	1	20
918.3461	5	75,0	5	15
918.3465	6	75,0	1	20
918.3466	6	75,0	5	18

TORSION*power* bit for Torx screws

- Torx
- External hexagon drive to DIN 3126 / ISO 1173 - C 6,3
- Can be used by hand or with an electric screwdriver
- Color coding
- Ideally suited for fittings in trade and industry
- With torsion zone
- To cushion high level torque
- Longer service life
- Nickel plated
- Special tool steel



1/4"

		L mm	Content	
918.3550	T10	75,0	1	20
918.3551	T10	75,0	5	27
918.3555	T15	75,0	1	20
918.3556	T15	75,0	5	28
918.3560	T20	75,0	1	20
918.3561	T20	75,0	5	29
918.3565	T25	75,0	1	20
918.3566	T25	75,0	5	30
918.3570	T27	75,0	1	20
918.3571	T27	75,0	5	33
918.3575	T30	75,0	1	15
918.3576	T30	75,0	5	90
918.3580	T40	75,0	1	17
918.3581	T40	75,0	5	103

TORSION*power* bit for Torx tamperproof screws

- For tamperproof Torx
- External hexagon drive to DIN 3126 / ISO 1173 - C 6,3
- Can be used by hand or with an electric screwdriver
- Tamperproof
- Color coding
- Ideally suited for fittings in trade and industry
- With torsion zone
- To cushion high level torque
- Longer service life
- Nickel plated
- Special tool steel

1/4"

		L mm	Content	
918.3650	TB10	75,0	1	20
918.3651	TB10	75,0	5	65
918.3655	TB15	75,0	1	20
918.3656	TB15	75,0	5	65
918.3660	TB20	75,0	1	20
918.3661	TB20	75,0	5	71
918.3665	TB25	75,0	1	20
918.3666	TB25	75,0	5	78
918.3670	TB27	75,0	1	20
918.3671	TB27	75,0	5	86
918.3675	TB30	75,0	1	15
918.3676	TB30	75,0	5	89
918.3680	TB40	75,0	1	17
918.3681	TB40	75,0	5	101

1/4" TORSION*power* BIT SETS

TORSION*power* Bit-Box

- External hexagon drive to DIN 3126 / ISO 1173 - C 6,3
- Can be used by hand or with an electric screwdriver
- Color coding
- Includes magnetic quick release bit holder and 1/4" socket adapter
- Ideally suited for fittings in trade and industry
- Precise and orderly arrangement of the popular 1/4" bits
- Nickel plated
- Special tool steel
- Includes durable two component storage case

1/4"

918.3000	15 pcs	TORSION*power* Bit-Box	140
1 x		1/4"	
2 x		4 - 6 mm	
2 x		PH1 - PH2	
2 x		PZ1 - PZ2	
3 x		3 - 4 - 5 mm	
5 x		T10 - T15 - T20 - T25 - T30	

TORSION*power* Bit-Box

- External hexagon drive to DIN 3126 / ISO 1173 - C 6,3
- Can be used by hand or with an electric screwdriver
- Color coding
- Includes magnetic quick release bit holder and 1/4" socket adapter
- Ideally suited for fittings in trade and industry
- Precise and orderly arrangement of the popular 1/4" bits
- Nickel plated
- Special tool steel
- Includes durable two component storage case

1/4"

918.3020	15 pcs	TORSION*power* Bit-Box	140
1 x		1/4"	
7 x		T10 - T15 - T20 - T25 - T27 - T30 - T40	
7 x		T10 - T15 - T20 - T25 - T27 - T30 - T40	

TORSION*power* Bit-Box

- External hexagon drive to DIN 3126 / ISO 1173 - C 6,3
- Can be used by hand or with an electric screwdriver
- Color coding
- Includes magnetic quick release bit holder and 1/4" socket adapter
- Ideally suited for fittings in trade and industry
- Precise and orderly arrangement of the popular 1/4" bits
- Nickel plated
- Special tool steel
- Includes durable two component storage case

1/4"

918.3030	32 pcs	TORSION*power* Bit-Box	750
1 x		1/4"	
1 x		1/4"	
4 x		4 - 5 - 6 - 7 mm	
4 x		PH1 - 2 x PH2 - PH3	
4 x		PZ1 - 2 x PZ2 - PZ3	
4 x		3 - 4 - 5 - 6 mm	
7 x		T10 - T15 - T20 - T25 - T27 - T30 - T40	
7 x		T10 - T15 - T20 - T25 - T27 - T30 - T40	

TORSION*power* Bit-Box

- External hexagon drive to DIN 3126 / ISO 1173 - C 6,3
- Can be used by hand or with an electric screwdriver
- Colour-coded bits
- Reversible
- 180° revolving head
- The extension can also be used as a T-handle
- Fine gearing 72 teeth ratchet mechanism
- Ideally suited for fittings in trade and industry
- Precise and orderly arrangement of the popular 1/4" bits
- With extension and 1/4" plug-in adapter
- Extremely flat construction form
- Matt finished
- Chrome vanadium
- Includes durable two component storage case

1/4"

918.3015	31 pcs	TORSION*power* Bit-Box	204
1 x		1/4"	
1 x		100 mm	
1 x		119 mm	
3 x		PH1 - PH2 - PH3	
3 x		PZ1 - PZ2 - PZ3	
2 x		4 - 5 mm	
9 x		1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 7 - 8 mm	
11 x		T6 - T7 - T8 - T9 - T10 - T15 - T20 - T25 - T27 - T30 - T40	

TORSION*power* Bit-Box

- External hexagon drive to DIN 3126 / ISO 1173 - C 6,3
- Can be used by hand or with an electric screwdriver
- Color coding
- Includes magnetic quick release bit holder and 1/4" socket adapter
- Ideally suited for fittings in trade and industry
- Practical belt holder
- Precise and orderly arrangement of the popular 1/4" bits
- Nickel plated
- Special tool steel
- Includes durable two component storage case

1/4"

918.3010	32 pcs	TORSION*power* Bit-Box	353
1 x		1/4"	
1 x		1/4"	
4 x		3 - 4 - 5 - 6 mm	
4 x		1 x PH1 - 2 x PH2 - 1 x PH3	
4 x		1 x PZ1 - 2 x PZ2 - 1 x PZ3	
4 x		3 - 4 - 5 - 6 mm	
7 x		T10 - T15 - T20 - T25 - T27 - T30 - T40	
7 x		TB10 - TB15 - TB20 - TB25 - TB27 TB30 - TB40	

TORSION*Power* Bit Socket Box

- With external hexagon drive to DIN 3126 / ISO 1173 - C 6,3
- Can be used by hand or with an electric screwdriver
- Colour-coded bits
- Reversible
- 180° revolving head
- The extension can also be used as a T-handle
- Fine gearing 72 teeth ratchet mechanism
- Ideally suited for fittings in trade and industry
- Precise and tidy arrangement of the most common 1/4" bits and sockets
- With extension and 1/4" plug-in adapter
- Extremely flat construction form
- Matt finished
- Chrome vanadium
- Includes durable two component storage case

1/4"

918.3005	33 pcs	TORSION*Power* Bit Socket Box	405
10 x		5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 mm	
2 x		4 - 6 mm	
3 x		PH1 - 2 x PH2 - PH3	
3 x		PZ1 - PZ2 - PZ3	
4 x		3 - 4 - 5 - 6 mm	
7 x		T10 - T15 - T20 - T25 - T27 - T30 - T40	
1 x		1/4"	
1 x		100 mm	
1 x		1/4"	

TORSION*power* Bit-Box

- External hexagon drive to DIN 3126 / ISO 1173 - C 6,3
- Can be used by hand or with an electric screwdriver
- Color coding
- Includes magnetic quick release bit holder and 1/4" socket adapter
- Ideally suited for fittings in trade and industry
- Precise and orderly arrangement of the popular 1/4" bits
- Nickel plated
- Special tool steel
- Includes durable two component storage case

1/4"

918.3070	71 pcs	TORSION*power* Bit-Box	750
1 x		1/4"	
1 x		1/4"	
6 x		3 x 4 mm - 3 x 6 mm	
12 x		3 x PH1 - 6 x PH2 - 3 x PH3	
12 x		3 x PZ1 - 6 x PZ2 - 3x PZ3	
9 x		3 x 4 mm - 3 x 5 mm - 3 x 6 mm	
15 x		3 x T10 - 2 x T15 - 2 x T20 - 2 x T25 2 x T27 - 2 x T30 - 2 x T40	
6 x		T15 - T20 - T25 - T27 - T30 T40	
2 x		4 - 6 mm	
4 x		2 x PH2 - 2 x PH3	
3 x		2x PZ1 - 2x PZ2	

5/16" BITS

Bit for slotted screws

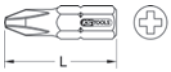
- Slotted
- External hexagon drive to DIN 3126 / ISO 1173 form C 8
- Can be used by hand, electric screwdriver and impact drivers
- Ideally suited for fittings in trade and industry
- Reinforced execution
- Nickel plated
- Special tool steel

5/16"

	mm	L mm	Content	
911.3680	5,5	30,0	1	10
911.3681	6,5	30,0	1	10
911.3682	7,0	30,0	1	10
911.5141	8,0	30,0	1	10
911.3683	9,0	30,0	1	10
911.5142	10,0	30,0	1	10
911.5143	12,0	30,0	1	10
911.3684	14,0	30,0	1	10
911.3685	16,0	30,0	1	10
911.3686	18,0	30,0	1	10
911.3687	20,0	30,0	1	10

Bit for phillips screws PH

- PH
- External hexagon drive to DIN 3126 / ISO 1173 form C 8
- Can be used by hand, electric screwdriver and impact drivers
- Ideally suited for fittings in trade and industry
- Reinforced execution
- Nickel plated
- Special tool steel



5/16"

		L mm	Content	g
911.5132	PH1	30,0	1	10
911.5133	PH2	30,0	1	10
911.5134	PH3	30,0	1	10
911.5135	PH4	30,0	1	10

Bit for pozidriv screws PZ

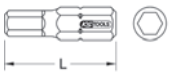
- PZ
- External hexagon drive to DIN 3126 / ISO 1173 form C 8
- Can be used by hand, electric screwdriver and impact drivers
- Ideally suited for fittings in trade and industry
- Reinforced execution
- Nickel plated
- Special tool steel

5/16"

		L mm	Content	g
911.5121	PZ1	30,0	1	10
911.5122	PZ2	30,0	1	10
911.5123	PZ3	30,0	1	10
911.5124	PZ4	30,0	1	10

Bit for hexagon screws

- Hexagon socket
- External hexagon drive to DIN 3126 / ISO 1173 form C 8
- Can be used by hand, electric screwdriver and impact drivers
- Ideally suited for fittings in trade and industry
- Reinforced execution
- Nickel plated
- Special tool steel



5/16"

	mm	L mm	Content	g
911.3695	3,0	30,0	1	10
911.3696	4,0	30,0	1	10
911.3697	5,0	30,0	1	10
911.5126	6,0	30,0	1	10
911.5127	7,0	30,0	1	10
911.5128	8,0	30,0	1	10
911.5129	10,0	30,0	1	10
911.5130	12,0	30,0	1	10
911.5131	14,0	30,0	1	10

Bit for Torx screws

- Torx
- External hexagon drive to DIN 3126 / ISO 1173 form C 8
- Can be used by hand, electric screwdriver and impact drivers
- Ideally suited for fittings in trade and industry
- Reinforced execution
- Nickel plated
- Special tool steel

5/16"

		L mm	Content	g
911.3688	T20	30,0	1	10
911.3689	T25	30,0	1	10
911.3690	T27	30,0	1	10
911.3691	T30	30,0	1	10
911.5144	T40	30,0	1	10
911.5145	T45	30,0	1	10
911.5146	T50	30,0	1	10
911.5147	T55	30,0	1	10
911.5148	T60	30,0	1	10
911.5149	T70	30,0	1	15

Bit for Torx tamperproof screws

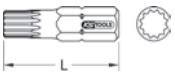
- For tamperproof Torx
- External hexagon drive to DIN 3126 / ISO 1173 form C 8
- Can be used by hand, electric screwdriver and impact drivers
- Ideally suited for fittings in trade and industry
- Reinforced execution
- Nickel plated
- Special tool steel

5/16"

		L mm	Content	g
911.3692	TB25	30,0	1	10
911.3693	TB27	30,0	1	10
911.3694	TB30	30,0	1	10
911.5136	TB40	30,0	1	10
911.5137	TB45	30,0	1	10
911.5138	TB50	30,0	1	10
911.5139	TB55	30,0	1	10
911.5140	TB60	30,0	1	10
911.5152	TB70	30,0	1	15

Bit for spline screws

- Spline
- External hexagon drive to DIN 3126 / ISO 1173 form C 8
- Can be used by hand, electric screwdriver and impact drivers
- Ideally suited for fittings in trade and industry
- Reinforced execution
- Nickel plated
- Special tool steel



5/16"

		L mm	Content	g
911.5154	M4	30,0	1	10
911.5155	M5	30,0	1	10
911.5156	M6	30,0	1	10
911.5157	M8	30,0	1	10
911.5158	M10	30,0	1	10
911.5159	M12	30,0	1	10
911.3698	M14	30,0	1	10

Bit for RIBE® screws

- RIBE®
- External hexagon drive to DIN 3126 / ISO 1173 form C 8
- Can be used by hand, electric screwdriver and impact drivers
- Ideally suited for fittings in trade and industry
- Reinforced execution
- Phosphate finish
- Special tool steel

5/16"

		L mm	Content	g
911.3699	M4	38,0	1	10
911.5165	M5	38,0	1	10
911.5166	M6	38,0	1	10
911.5167	M7	38,0	1	10
911.5168	M8	38,0	1	20
911.5169	M10	38,0	1	20
911.5170	M12	38,0	1	30
911.3754	M14	38,0	1	30

Bit for RIBE® screws

- RIBE®
- External hexagon drive to DIN 3126 / ISO 1173 form C 8
- Can be used by hand, electric screwdriver and impact drivers
- Ideally suited for fittings in trade and industry
- Reinforced execution
- Phosphate finish
- Special tool steel

5/16"

		L mm	Content	g
911.5171	M7	100,0	1	40
911.5172	M8	100,0	1	50
911.5173	M9	100,0	1	60
911.5174	M10	100,0	1	70
911.5175	M12	100,0	1	80
911.5176	M13	100,0	1	90
911.5177	M14	100,0	1	100

5/16" BIT SETS

RIBE® Bit set

- Ideal set compilation for RIBE® screws
- External hexagon drive to DIN 3126 / ISO 1173 form C 8
- Can be used by hand, electric screwdriver and impact drivers
- Ideally suited for fittings in trade and industry
- Reinforced execution
- Precise arrangement of the popular 5/16" RIBE® bits
- Phosphate finish
- Special tool steel
- In durable plastic storage case

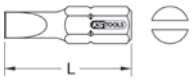
5/16"

			kg
911.4306	14 pcs	RIBE® Bit set	0,82
1 x		1/2"	
6 x		M5 - M6 - M7 - M8 - M10 - M12	
7 x		M7 - M8 - M9 - M10 - M12 - M13 M14	

10 mm BITS 30 mm

Bit for slotted screws

- Slotted
- 10 mm external hexagon
- Can be used by hand, electric screwdriver and impact drivers
- Ideally suited for fittings in trade and industry
- Reinforced execution
- Sand-blasted
- Special tool steel

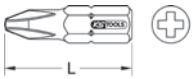


10 mm

	mm	L mm	Content	g
930.3015	8,0	30,0	1	40
930.3016	10,0	30,0	1	40

Bit for phillips screws PH

- PH
- 10 mm external hexagon
- Can be used by hand, electric screwdriver and impact drivers
- Ideally suited for fittings in trade and industry
- Reinforced execution
- Sand-blasted
- Special tool steel

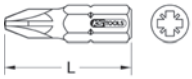


10 mm

		L mm	Content	g
930.3019	PH1	30,0	1	40
930.3017	PH2	30,0	1	40
930.3018	PH3	30,0	1	40

Bit for pozidriv screws PZ

- PZ
- 10 mm external hexagon
- Can be used by hand, electric screwdriver and impact drivers
- Ideally suited for fittings in trade and industry
- Reinforced execution
- Sand-blasted
- Special tool steel

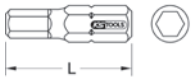


10 mm

		L mm	Content	g
930.3020	PZ1	30,0	1	40
930.3021	PZ2	30,0	1	40
930.3022	PZ3	30,0	1	40

Bit for hexagon screws

- Hexagon socket
- 10 mm external hexagon
- Can be used by hand, electric screwdriver and impact drivers
- Ideally suited for fittings in trade and industry
- Reinforced execution
- Sand-blasted
- Special tool steel

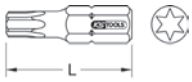


10 mm

	mm	L mm	Content	g
930.1004	4,0	30,0	1	40
930.1005	5,0	30,0	1	40
930.1006	6,0	30,0	1	40
930.1007	7,0	30,0	1	40
930.1008	8,0	30,0	1	40
930.1010	10,0	30,0	1	40
930.1012	12,0	30,0	1	40

Bit for Torx screws

- Torx
- 10 mm external hexagon
- Can be used by hand, electric screwdriver and impact drivers
- Ideally suited for fittings in trade and industry
- Reinforced execution
- Sand-blasted
- Special tool steel

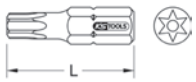


10 mm

		L mm	Content	g
930.2010	T10	30,0	1	40
930.2015	T15	30,0	1	40
930.2020	T20	30,0	1	40
930.2025	T25	30,0	1	40
930.2027	T27	30,0	1	40
930.2030	T30	30,0	1	40
930.2040	T40	30,0	1	40
930.2045	T45	30,0	1	40
930.2050	T50	30,0	1	40
930.2055	T55	30,0	1	40
930.2060	T60	30,0	1	40

Bit for Torx tamperproof screws

- For tamperproof Torx
- 10 mm external hexagon
- Can be used by hand, electric screwdriver and impact drivers
- Ideally suited for fittings in trade and industry
- Reinforced execution
- Sand-blasted
- Special tool steel

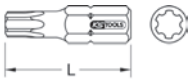


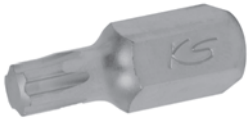
10 mm

		L mm	Content	g
930.2110	TB10	30,0	1	40
930.2115	TB15	30,0	1	40
930.2120	TB20	30,0	1	40
930.2125	TB25	30,0	1	40
930.2127	TB27	30,0	1	40
930.2130	TB30	30,0	1	40
930.2140	TB40	30,0	1	40
930.2145	TB45	30,0	1	40
930.2150	TB50	30,0	1	40
930.2155	TB55	30,0	1	40
930.2160	TB60	30,0	1	40

bit for Torx PLUS screws

- Torx PLUS
- External hexagon drive to DIN 3126 / ISO 1173 form C 8
- Can be used by hand or with an electric screwdriver
- Ideally suited for fittings in trade and industry
- Reinforced execution
- Sand-blasted
- Special tool steel



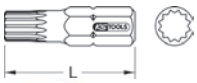


10 mm

		L mm	Content	g
911.3260	IP 40	30,0	1	13
911.3261	IP 45	30,0	1	14
911.3262	IP 50	30,0	1	16
911.3263	IP 55	30,0	1	20
911.3264	IP 60	30,0	1	25

Bit for spline screws

- Spline
- 10 mm external hexagon
- Can be used by hand, electric screwdriver and impact drivers
- Ideally suited for fittings in trade and industry
- Reinforced execution
- Sand-blasted
- Special tool steel



10 mm

		L mm	Content	g
930.3005	M5	30,0	1	40
930.3006	M6	30,0	1	12
930.3008	M8	30,0	1	40
930.3010	M10	30,0	1	40
930.3012	M12	30,0	1	40

bit for tamper proof five star bits

- Five star, tamperproof
- 10 mm external hexagon
- Can be used by hand, electric screwdriver and impact drivers
- Ideally suited for fittings in trade and industry
- Reinforced execution
- Sand-blasted
- Special tool steel

10 mm

		L mm	Content	g
911.3121	TS40	30,0	1	10
911.3122	TS45	30,0	1	11
911.3123	TS50	30,0	1	11
911.3124	TS55	30,0	1	13
911.3125	TS60	30,0	1	22

10 mm BITS 75 mm

Bit for hexagon screws

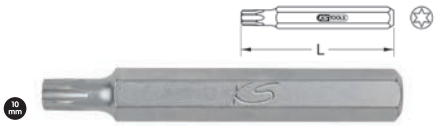
- Hexagon socket
- 10 mm external hexagon
- Can be used by hand, electric screwdriver and impact drivers
- Ideally suited for fittings in trade and industry
- Reinforced execution
- Sand-blasted
- Special tool steel

10 mm

	mm	L mm	Content	g
975.1004	4,0	75,0	1	70
975.1005	5,0	75,0	1	70
975.1006	6,0	75,0	1	43
975.1007	7,0	75,0	1	70
975.1008	8,0	75,0	1	70
975.1010	10,0	75,0	1	70
975.1012	12,0	75,0	1	70

Bit for Torx screws

- Torx
- 10 mm external hexagon
- Can be used by hand, electric screwdriver and impact drivers
- Ideally suited for fittings in trade and industry
- Reinforced execution
- Sand-blasted
- Special tool steel

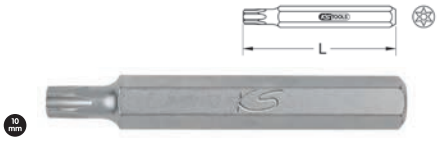


10 mm

		L mm	Content	g
975.2010	T10	75,0	1	70
975.2015	T15	75,0	1	70
975.2020	T20	75,0	1	70
975.2025	T25	75,0	1	70
975.2027	T27	75,0	1	70
975.2030	T30	75,0	1	70
975.2040	T40	75,0	1	70
975.2045	T45	75,0	1	70
975.2050	T50	75,0	1	70
975.2055	T55	75,0	1	70
975.2060	T60	75,0	1	70
975.2075	T70	75,0	1	70

Bit for Torx tamperproof screws

- For tamperproof Torx
- 10 mm external hexagon
- Can be used by hand, electric screwdriver and impact drivers
- Ideally suited for fittings in trade and industry
- Reinforced execution
- Sand-blasted
- Special tool steel

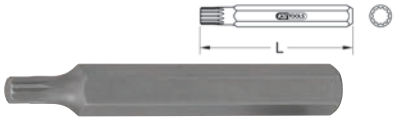


10 mm

		L mm	Content	g
975.2110	TB10	75,0	1	70
975.2115	TB15	75,0	1	70
975.2120	TB20	75,0	1	70
975.2125	TB25	75,0	1	70
975.2127	TB27	75,0	1	70
975.2130	TB30	75,0	1	70
975.2140	TB40	75,0	1	70
975.2145	TB45	75,0	1	70
975.2150	TB50	75,0	1	70
975.2155	TB55	75,0	1	70
975.2160	TB60	75,0	1	70

Bit for spline screws

- Spline
- 10 mm external hexagon
- Can be used by hand, electric screwdriver and impact drivers
- Ideally suited for fittings in trade and industry
- Reinforced execution
- Sand-blasted
- Special tool steel



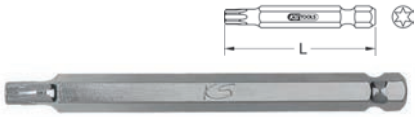
10 mm

		L mm	Content	g
975.3005	M5	75,0	1	70
975.3006	M6	75,0	1	70
975.3008	M8	75,0	1	70
975.3010	M10	75,0	1	70
975.3012	M12	75,0	1	70

10 mm BITS 120 mm

Bit for Torx screws

- Torx
- 10 mm external hexagon
- Can be used by hand, electric screwdriver and impact drivers
- Ideally suited for fittings in trade and industry
- Reinforced execution
- Sand-blasted
- Special tool steel



10 mm

		L mm	Content	g
975.4040	T40	120,0	1	80
975.4045	T45	120,0	1	80
975.4050	T50	120,0	1	80
975.4055	T55	120,0	1	80

10 mm BIT SETS

Bit set

- Ideal set compilation for Torx screws
- 10 mm external hexagon
- Can be used by hand, electric screwdriver and impact drivers
- Includes 1/2" socket adapter for 10 mm bits
- Ideally suited for fittings in trade and industry
- Reinforced execution
- Precise arrangement of the popular 10 mm Torx bits
- Sand-blasted
- Special tool steel
- In durable steel storage case

10 mm

			kg
911.5020	15 pcs	Bit set	0,58
1 x		1/2" x 10 mm	
7 x		T20 - T25 - T30 - T40 - T45 - T50 - T55	
7 x		T20 - T25 - T30 - T40 - T45 - T50 - T55	

Bit set

- Ideal set compilation for hexagon socket screws
- 10 mm external hexagon
- Can be used by hand, electric screwdriver and impact drivers
- Includes 1/2" socket adapter for 10 mm bits
- Ideally suited for fittings in trade and industry
- Reinforced execution
- Precise arrangement of the popular 10 mm hexagon socket bits
- Sand-blasted
- Special tool steel
- In durable steel storage case

10 mm

			kg
911.5040	15 pcs	Bit set	0,58
1 x		1/2" x 10 mm	
7 x		4 - 5 - 6 - 7 - 8 - 10 - 12 mm	
7 x		4 - 5 - 6 - 7 - 8 - 10 - 12 mm	

Bit set

- Ideal set for spline screws
- 10 mm external hexagon
- Can be used by hand, electric screwdriver and impact drivers
- Includes 1/2" socket adapter for 10 mm bits
- Ideally suited for fittings in trade and industry
- Sand-blasted
- Special tool steel
- In durable plastic storage case

10 mm

			kg
911.5030	11 pcs	Bit set	0,60
1 x		1/2" x 10 mm	
5 x		M5 - M6 - M8 - M10 - M12	
5 x		M5 - M6 - M8 - M10 - M12	

Bit set

- 10 mm external hexagon
- Can be used by hand, electric screwdriver and impact drivers
- Includes 3/8" + 1/2" socket adapter for 10 mm bits
- Ideally suited for fittings in trade and industry
- Reinforced execution
- Precise arrangement of the popular 10 mm bits
- Sand-blasted
- Special tool steel
- In durable steel storage case

10 mm

			kg
911.4304	42 pcs	Bit set	1,60
2 x		3/8" - 1/2"	
7 x		4 - 5 - 6 - 7 - 8 - 10 - 12 mm	
8 x		T20 - T25 - T30 - T40 - T45 - T50 T55 - T60	
5 x		M5 - M6 - M8 - M10 - M12	
2 x		8 - 10 mm	
2 x		PH2 - PH3	
4 x		5 - 6 - 8 - 10 mm	
8 x		T20 - T25 - T30 - T40 - T45 - T50 T55 - T60	
4 x		M6 - M8 - M10 - M12	

Torx Socket and bit set

- Matt finish
- Chrome vanadium
- In durable plastic storage case

1/4" 3/8" 1/2"

			kg
911.4305	57 pcs	Torx Socket and bit set	2,00
2 x		3/8" x 10mm - 1/2" x 1/4"	
12 x		1/4": E4 - E5 - E6 - E7 - E8; 3/8": E10 - E11 - E12 - E14;1/2": E16 - E18 - E20	
7 x		4 - 5 - 6 - 7 - 8 - 10 - 12 mm	
9 x		TB20 - TB25 - TB27 - TB30 - TB40 - TB45 - TB50 - TB55 - TB60	
5 x		M5 - M6 - M8 - M10 - M12	
2 x		8 - 10 mm	
2 x		PH2 - PH3	
5 x		5 - 6 - 7 - 8 - 10 mm	
9 x		T20 - T25 - T27 - T30 - T40 - T45 - T50 - T55 - T60	
4 x		M6 - M8 - M10 - M12	

Bit set

- 10 mm external hexagon
- Can be used by hand, electric screwdriver and impact drivers
- Includes 10 mm reversing ratchet
- Ideally suited for fittings in trade and industry
- Reinforced execution
- Precise arrangement of the popular 10 mm bits and sockets
- Sand-blasted
- Special tool steel
- In durable ABS storage case

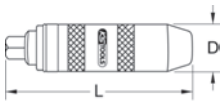
10 mm

			kg
911.4310	37 pcs	Bit set	1,60
1 x		10 mm	
6 x		5 - 6 - 7 - 8 - 10 - 12 mm	
8 x		TB20 - TB25 - TB27 - TB30 - TB40 - TB45 - TB50 - TB55	
5 x		M5 - M6 - M8 - M10 - M12	
2 x		PH2 - PH3	
8 x		T20 - T25 - T27 - T30 - T40 - T45 - T50 - T55	
4 x		M6 - M8 - M10 - M12	
3 x		T40 - T45 - T50	

1/2" HAND IMPACT SCREWDRIVER

Hand-impact screwdriver

- Reversible
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- 1/4 Revolution of the impact screwdriver through hammer blow (Parable mechanism)
- Optimal feed rate
- No slippage of the blade bit possible
- Ideal for loosening jammed screw connections
- Ideally suited for the automotive area
- Special tool steel



1/2"

	■	D mm	L mm	g
515.1004	1/2"	35,0	135,0	950

Hand impact screwdriver set

- Reversible
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- 1/4 Revolution of the impact screwdriver through hammer blow (Parable mechanism)
- Optimal feed rate
- No slippage of the blade bit possible
- Ideal for loosening jammed screw connections
- Ideally suited for the automotive area
- Includes the most current impact bits, impact bit adaptor
- Special tool steel
- In durable plastic storage case

1/2" 5/16"

			kg
515.1003	11 pcs	Hand impact screwdriver set	1,00
1 x		1/2"	
1 x		1/2"	
6 x		5 - 6 - 8 - 10 - 12 - 14 mm	
3 x		PH1 - PH2 - PH3	

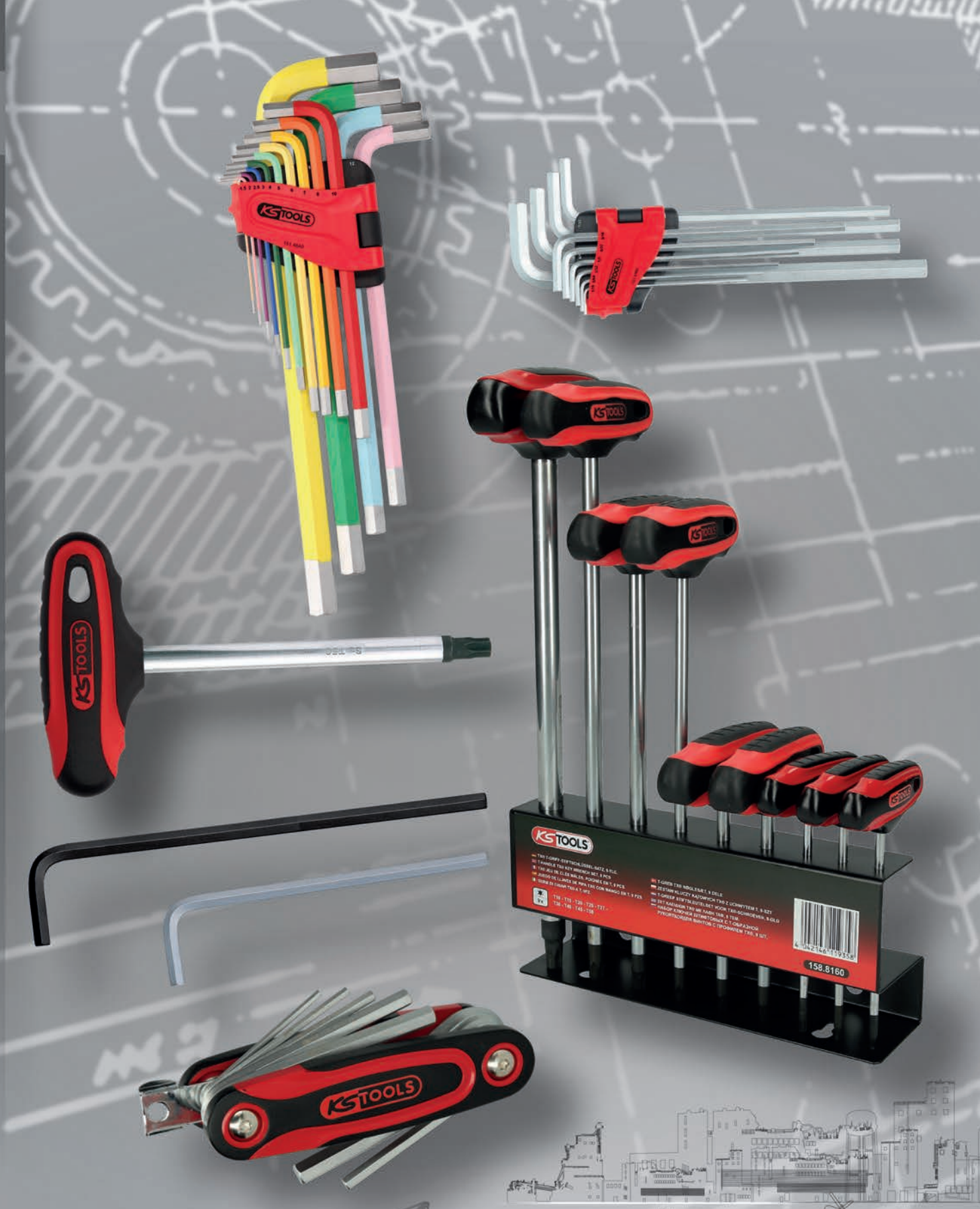
Hand impact screwdriver set

- Reversible
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- 1/4 Revolution of the impact screwdriver through hammer blow (Parable mechanism)
- Optimal feed rate
- No slippage of the blade bit possible
- Ideal for loosening jammed screw connections
- Ideally suited for the automotive area
- Includes the most current impact bits, impact bit adaptor
- Special tool steel
- In durable plastic storage case

1/2" 5/16"

			kg
515.1000	18 pcs	Hand impact screwdriver set	1,32
1 x		1/2"	
1 x		1/2" x 5/16"	
2 x		T30 - T40	
3 x		5 - 6 - 8 mm	
2 x		M8 - M10	
3 x		PH1 - PH2 - PH3	
6 x		5 - 6 - 8 - 10 - 12 - 14 mm	

HEXAGON KEY WRENCHES



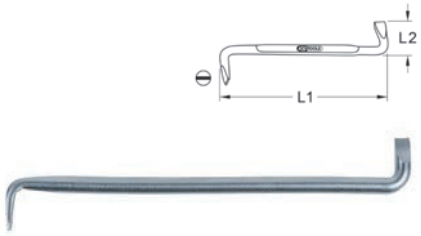
KS TOOLS®

Innovation is our mission!

OFFSET SCREWDRIVER

Offset screwdriver, slotted

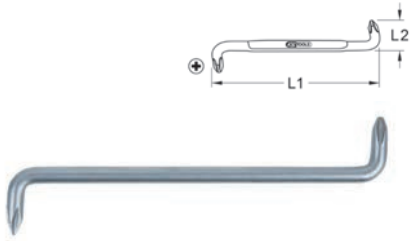
- Short execution
- DIN ISO 8764
- Continuous hardened
- Matt chrome
- Special tool steel



	D mm	L1 mm	L2 mm	g	
151.2674	3,5	90,0	12,4	10	
151.2675	4,0	100,0	15,3	12	
151.2676	5,5	125,0	20,4	25	
151.2677	8,0	150,0	24,8	50	
151.2678	10,0	175,0	32,8	135	
151.2679	12,0	200,0	42,4	228	

Offset screwdriver, PH

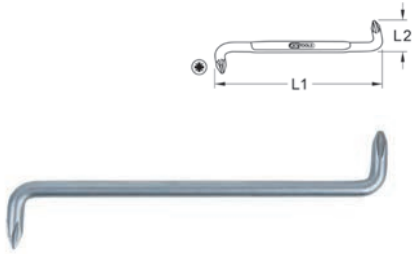
- Short execution
- DIN ISO 8764
- Continuous hardened
- Matt chrome
- Special tool steel



		L1 mm	L2 mm	g	
151.2680	PH 1 - PH 2	100,0	25,4	40	
151.2681	PH 2 - PH 3	150,0	33,1	77	
151.2682	PH 3 - PH 4	200,0	38,6	77	

Offset screwdriver, PZ

- Short execution
- DIN ISO 8764
- Continuous hardened
- Matt chrome
- Special tool steel

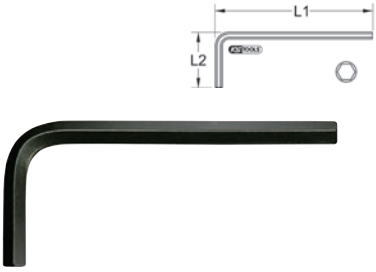


		L1 mm	L2 mm	g	
151.2683	PZ 1 - PZ 2	125,0	24,4	40	
151.2684	PZ 3 - PZ 4	200,0	37,9	156	

HEXAGON KEY WRENCHES

Hexagon key wrench

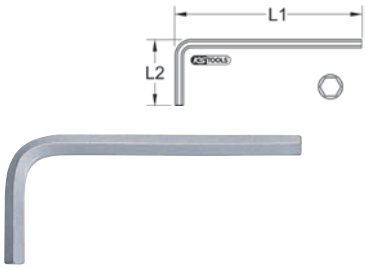
- Short execution
- In accordance to DIN ISO 2936
- Continuous hardened
- Phosphate finish
- Special tool steel



	mm		L1 mm	L2 mm	kg	
151.26007	0,7		33,0	7,0	0,01	
151.26009	0,9		33,0	11,0	0,01	
151.26013	1,3		41,0	13,0	0,01	
151.26015	1,5		46,5	15,5	0,01	
151.2602	2,0		52,0	18,0	0,01	
151.26025	2,5		58,5	20,5	0,01	
151.2603	3,0		66,0	23,0	0,01	
151.26035	3,5		69,5	25,5	0,01	
151.2604	4,0		74,0	29,0	0,01	
151.26045	4,5		80,0	30,5	0,02	
151.2605	5,0		85,0	33,0	0,02	
151.26055	5,5		90,0	35,0	0,02	
151.2606	6,0		96,0	38,0	0,03	
151.2607	7,0		102,0	41,0	0,04	
151.2608	8,0		108,0	44,0	0,06	
151.2609	9,0		114,0	47,0	0,08	
151.2610	10,0		122,0	50,0	0,11	
151.2611	11,0		129,0	53,0	0,15	
151.2612	12,0		137,0	57,0	0,17	
151.2613	13,0		145,0	63,0	0,25	
151.2614	14,0		154,0	70,0	0,27	
151.2616	16,0		168,0	76,0	0,40	
151.2617	17,0		177,0	80,0	0,44	
151.2618	18,0		188,0	84,0	0,60	
151.2619	19,0		199,0	89,0	0,63	
151.2621	21,0		211,0	96,0	0,70	
151.2622	22,0		222,0	102,0	0,75	
151.2624	24,0		248,0	114,0	0,82	
151.2650	27,0		277,0	127,0	1,80	
151.2651	30,0		315,0	142,0	2,52	
151.2652	32,0		347,0	157,0	3,18	
151.2653	36,0		391,0	176,0	4,52	
151.2654		3/64”	45,0	14,0	0,01	
151.2630		1/32”	45,0	14,0	0,01	
151.2631		1/16”	45,0	15,0	0,01	
151.2632		5/64”	50,0	16,0	0,01	
151.2633		3/32”	51,0	17,0	0,01	
151.2634		7/64”	54,0	20,0	0,01	
151.2635		1/8”	57,0	22,0	0,01	
151.2636		9/64”	63,0	23,0	0,01	
151.2637		5/32”	65,0	25,0	0,01	
151.2638		3/16”	70,0	29,0	0,02	
151.2639		7/32”	80,0	32,0	0,03	
151.2640		1/4”	87,0	32,0	0,04	
151.2655		9/32”	95,0	35,0	0,04	
151.2641		5/16”	98,0	40,0	0,08	
151.2642		3/8”	110,0	45,0	0,11	
151.2643		7/16”	124,0	48,0	0,13	
151.2644		1/2”	133,0	50,0	0,15	
151.2645		9/16”	152,0	57,0	0,25	
151.2646		5/8”	160,0	59,0	0,40	
151.2647		3/4”	180,0	70,0	0,62	
151.2648		7/8”	200,0	80,0	0,74	
151.2649		1”	248,0	114,0	0,82	

Hexagon key wrench

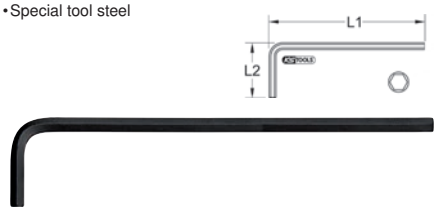
- Short execution
- DIN ISO 2936
- Continuous hardened
- Matt chrome
- Special tool steel



	mm		L1 mm	L2 mm	g	
151.20213	1,3		41,0	13,0	10	
151.20215	1,5		46,5	15,5	10	
151.2022	2,0		52,0	18,0	10	
151.20225	2,5		58,5	20,5	10	
151.2023	3,0		66,0	23,0	10	
151.20235	3,5		69,5	25,5	10	
151.2024	4,0		74,0	29,0	10	
151.20245	4,5		80,0	30,5	10	
151.2025	5,0		85,0	33,0	20	
151.20255	5,5		90,0	35,0	20	
151.2026	6,0		96,0	38,0	30	
151.2027	7,0		102,0	41,0	40	
151.2028	8,0		108,0	44,0	60	
151.2029	9,0		114,0	47,0	80	
151.2030	10,0		122,0	50,0	110	
151.2031	12,0		137,0	57,0	170	
151.2038	13,0		145,0	63,0	250	
151.2032	14,0		154,0	70,0	270	
151.2039	16,0		168,0	76,0	400	
151.2033	17,0		177,0	80,0	440	
151.2034	19,0		199,0	89,0	630	
151.2036	22,0		222,0	102,0	750	
151.2831		1/20”	41,0	12,0	0,6	
151.2082		1/16”	45,0	15,0	10	
151.2083		5/64”	50,0	16,0	10	
151.2084		3/32”	51,0	17,0	10	
151.2085		7/64”	54,0	20,0	10	
151.2086		1/8”	57,0	22,0	10	
151.2087		9/64”	63,0	23,0	10	
151.2088		5/32”	65,0	25,0	10	
151.2089		3/16”	70,0	29,0	20	
151.2090		7/32”	80,0	32,0	30	
151.2091		1/4”	87,0	32,0	40	
151.2092		5/16”	98,0	40,0	80	
151.2093		3/8”	110,0	45,0	110	
151.2094		7/16”	124,0	48,0	130	
151.2095		1/2”	133,0	50,0	150	
151.2096		9/16”	152,0	57,0	250	
151.2097		5/8”	160,0	59,0	400	
151.2098		3/4”	180,0	70,0	620	
151.2099		7/8”	200,0	80,0	740	

Hexagon key wrench, long

- Long execution
- In accordance to DIN ISO 2936
- Continuous hardened
- Phosphate finish
- Special tool steel

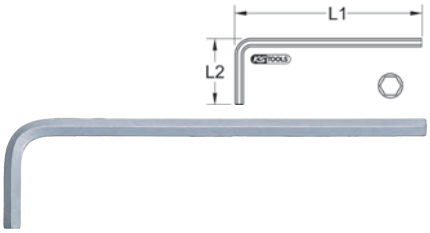


	mm		L1 mm	L2 mm	g	
151.27013	1,3		70,0	15,0	10	
151.27015	1,5		75,0	15,0	10	
151.2702	2,0		83,0	17,0	10	
151.27025	2,5		90,0	20,0	10	
151.2703	3,0		97,0	20,0	10	

	mm		L1 mm	L2 mm	g
151.27035	3,5		100,0	22,0	10
151.2704	4,0		110,0	27,0	20
151.27045	4,5		116,0	26,0	30
151.2705	5,0		122,0	29,0	30
151.2706	6,0		140,0	34,0	40
151.2707	7,0		151,0	36,0	60
151.2708	8,0		162,0	38,0	80
151.2709	9,0		170,0	40,0	110
151.2710	10,0		185,0	45,0	150
151.2656	11,0		210,0	51,0	240
151.2712	12,0		217,0	56,0	250
151.2714	14,0		240,0	65,0	390
151.2717	17,0		200,0	69,0	620
151.2719	19,0		210,0	77,0	880
151.2720		1/16”	75,0	16,0	10
151.2721		5/64”	82,0	17,0	10
151.2722		3/32”	90,0	18,0	10
151.2723		7/64”	93,0	20,0	10
151.2724		1/8”	103,0	24,0	10
151.2725		9/64”	100,0	23,0	10
151.2726		5/32”	111,0	26,0	10
151.2727		3/16”	120,0	25,0	20
151.2728		7/32”	129,0	32,0	30
151.2729		1/4”	139,0	36,0	40
151.2730		5/16”	163,0	40,0	80
151.2731		3/8”	180,0	44,0	110
151.2732		1/2”	192,0	58,0	150
151.2733		9/16”	194,0	62,0	250
151.2734		5/8”	200,0	63,0	390
151.2735		3/4”	210,0	78,0	620

Hexagon key wrench, long

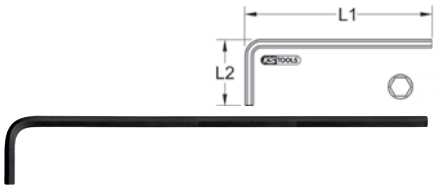
- Long execution
- DIN ISO 2936
- Continuous hardened
- Matt chrome
- Special tool steel



	mm		L1 mm	L2 mm	g
151.20413	1,3		63,5	13,0	10
151.20415	1,5		63,5	15,5	10
151.2042	2,0		77,0	18,0	10
151.20425	2,5		87,5	20,5	10
151.2043	3,0		93,0	23,0	10
151.20435	3,5		98,5	25,5	10
151.2044	4,0		104,0	29,0	10
151.20445	4,5		114,5	30,5	20
151.2045	5,0		120,0	33,0	30
151.20455	5,5		128,0	35,0	30
151.2046	6,0		141,0	38,0	40
151.2047	7,0		147,0	41,0	60
151.2048	8,0		158,0	44,0	80
151.2049	9,0		169,0	47,0	110
151.2050	10,0		180,0	50,0	150
151.2052	12,0		202,0	57,0	250
151.2054	14,0		229,0	70,0	390
151.2057	17,0		262,0	80,0	620
151.2059	19,0		290,0	89,0	880
151.2061		1/16”	63,0	15,5	10
151.2062		5/64”	77,0	18,0	10
151.2063		3/32”	87,5	20,5	10
151.2064		7/64”	93,0	23,0	10
151.2065		1/8”	93,0	23,0	10
151.2066		9/64”	98,5	25,5	10
151.2067		5/32”	104,0	29,0	10
151.2068		3/16”	120,0	33,0	20
151.2069		7/32”	128,0	35,0	30
151.2071		1/4”	141,0	38,0	40
151.2072		5/16”	158,0	44,0	80
151.2073		3/8”	180,0	50,0	110
151.2074		1/2”	202,0	57,0	150
151.2075		9/16”	229,0	70,0	250
151.2076		5/8”	240,0	76,0	390
151.2077		3/4”	290,0	89,0	620

Hexagon key wrench, extra long

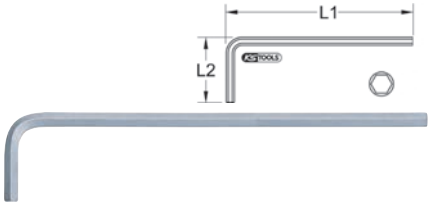
- Extra long execution
- In accordance to DIN ISO 2936
- Continuous hardened
- Phosphate finish
- Special tool steel



	mm		L1 mm	L2 mm	kg
151.28015	1,5		91,5	15,5	0,01
151.2802	2,0		102,0	18,0	0,01
151.28025	2,5		114,5	20,5	0,01
151.2803	3,0		129,0	23,0	0,01
151.2804	4,0		144,0	29,0	0,02
151.2805	5,0		156,0	30,5	0,03
151.28055	5,5		165,0	33,0	0,04
151.2806	6,0		186,0	38,0	0,05
151.2807	7,0		197,0	41,0	0,08
151.2808	8,0		208,0	44,0	0,10
151.2657	9,0		219,0	47,0	0,11
151.2810	10,0		234,0	50,0	0,18
151.2812	12,0		262,0	57,0	0,29
151.2814	14,0		294,0	70,0	0,46
151.2817	17,0		337,0	80,0	0,75
151.2819	19,0		360,0	89,0	1,07
151.2820		1/16”	91,0	15,5	0,01
151.2821		5/64”	102,0	18,0	0,01
151.2822		3/32”	114,5	20,5	0,01
151.2823		1/8”	129,0	23,0	0,02
151.2824		5/32”	144,0	29,0	0,02
151.2825		3/16”	156,0	30,5	0,03
151.2826		1/4”	186,0	38,0	0,05
151.2827		5/16”	208,0	44,0	0,08
151.2828		3/8”	234,0	50,0	0,15
151.2829		1/2”	267,0	63,0	0,30
151.2830		9/16”	294,0	70,0	0,46

Hexagon key wrench, extra long

- Extra long execution
- DIN ISO 2936
- Continuous hardened
- Matt chrome
- Special tool steel

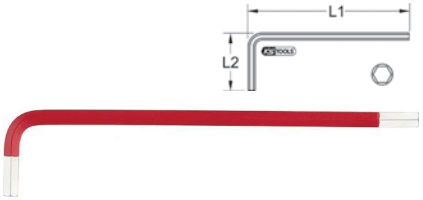


	mm		L1 mm	L2 mm	kg
151.31315	1,5		91,5	15,5	0,01
151.3132	2,0		102,0	18,0	0,01
151.31325	2,5		114,5	20,5	0,01
151.3133	3,0		129,0	23,0	0,01
151.3134	4,0		144,0	29,0	0,02
151.3135	5,0		156,0	30,5	0,03
151.3136	6,0		186,0	38,0	0,05
151.3137	7,0		197,0	41,0	0,08
151.3138	8,0		208,0	44,0	0,10
151.2658	9,0		219,0	47,0	0,14
151.3140	10,0		234,0	50,0	0,18
151.2855	11,0		250,0	45,0	0,24
151.3142	12,0		262,0	57,0	0,29
151.2856	13,0		280,0	56,0	0,38
151.3144	14,0		294,0	70,0	0,46
151.3147	17,0		337,0	80,0	0,75
151.3149	19,0		360,0	89,0	1,07
151.3150		1/16”	91,0	15,5	0,01
151.3151		5/64”	102,0	18,0	0,01
151.3152		3/32”	114,5	20,5	0,01
151.3153		1/8”	129,0	23,0	0,02
151.3154		5/32”	144,0	29,0	0,02

	mm		L1 mm	L2 mm	kg
151.3155		3/16”	156,0	30,5	0,03
151.3170		7/32”	165,0	33,0	0,04
151.3156		1/4”	186,0	38,0	0,05
151.2857		9/32”	190,0	34,0	0,08
151.3157		5/16”	208,0	44,0	0,08
151.2858		11/32”	219,0	47,0	0,14
151.3158		3/8”	234,0	50,0	0,18
151.2859		7/16”	250,0	45,0	0,24
151.3159		1/2”	267,0	63,0	0,30
151.3160		9/16”	294,0	70,0	0,46
151.2861		5/8”	320,0	63,0	0,75
151.2862		3/4”	360,0	70,0	1,07

Hexagon key wrench, extra long

- Extra long execution
- DIN ISO 2936
- each wrench width colour-coded
- Continuous hardened
- Matt chrome
- Special tool steel



	mm		Colour code	L1 mm	L2 mm	g
151.4461	1,5		light orange	90,0	14,0	2
151.4462	2		pink	100,0	16,0	3
151.4463	2,5		purple	112,0	18,0	6
151.4464	3		blue	126,0	20,0	8
151.4465	4		dark green	140,0	25,0	17
151.4466	5		light green	160,0	28,0	32
151.4467	6		light yellow	180,0	32,0	51
151.4468	7		zinc yellow	200,0	36,0	76
151.4469	8		orange	200,0	36,0	101
151.4471	10		red	224,0	40,0	176
151.4472	12		violet	250,0	45,0	285
151.4473	14		turquoise	280,0	56,0	439
151.4474	17		green	320,0	63,0	737
151.4475	19		yellow	360,0	70,0	1036
151.4476		1/16”	light orange	90,0	14,0	2
151.4477		5/64”	pink	100,0	16,0	3
151.4478		3/32”	purple	112,0	18,0	6
151.4479		1/8”	blue	126,0	20,0	8
151.4481		5/32”	dark green	140,0	25,0	17
151.4482		3/16”	light green	160,0	28,0	32
151.4483		7/32”	light yellow	170,0	30,0	42
151.4484		1/4”	zinc yellow	180,0	32,0	51
151.4485		5/16”	orange	200,0	36,0	76
151.4486		3/8”	red	224,0	40,0	101
151.4487		1/2”	violet	250,0	45,0	285
151.4488		9/16”	turquoise	280,0	56,0	439
151.4489		5/8”	green	320,0	63,0	737
151.4491		3/4”	yellow	360,0	70,0	1036

HEXAGON KEY WRENCH SETS

Hexagon key wrench set on a ring

- In accordance to DIN ISO 2936
- Storage ring
- Continuous hardened
- Phosphate finish
- Special tool steel

			g
151.3250	8 pcs	2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm	330

Hexagon key wrench set

- In accordance to DIN ISO 2936
- Continuous hardened
- Matt chrome
- Special tool steel
- In a durable folding holder with two component housing

158.3540	8 pcs	2,5 - 3 - 4 - 5 - 6 - 7 - 8 - 10 mm	440

Socket Allen key set, short

- Short execution
- DIN ISO 2936
- Continuous hardened
- Matt chrome
- Special tool steel
- In durable folding holder

151.3212	9 pcs	1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm	434

Socket Allen key set, short

- Short execution
- DIN ISO 2936
- Continuous hardened
- Matt chrome
- Special tool steel
- In durable folding holder

151.5080	10 pcs	1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 7 - 8 - 10 mm	304

Socket Allen key set, short

- Short execution
- DIN ISO 2936
- Continuous hardened
- Matt chrome
- Special tool steel
- In durable folding holder

151.4590	14 pcs	1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 7 - 8 - 10 - 12 - 14 - 17 - 19 mm	3,09 kg

Socket Allen key set, short

- Short execution
- DIN ISO 2936
- Imperial sizes
- Continuous hardened
- Matt chrome
- Special tool steel
- In durable folding holder

151.4540	9 pcs	1/16" - 5/64" - 3/32" - 1/8" - 5/32" - 3/16" - 1/4" - 5/16" - 3/8"	434

Socket Allen key set, short

- Short execution
- DIN ISO 2936
- Imperial sizes
- Continuous hardened
- Matt chrome
- Special tool steel
- In durable folding holder

151.5060	10 pcs	1/16" - 5/64" - 3/32" - 1/8" - 5/32" - 3/16" - 7/32" - 1/4" - 5/16" - 3/8"	298

Socket Allen key set, short

- Short execution
- DIN ISO 2936
- Imperial sizes
- Continuous hardened
- Matt chrome
- Special tool steel
- In durable folding holder

151.4600	14 pcs	1/16" - 5/64" - 3/32" - 1/8" - 5/32" - 3/16" - 7/32" - 1/4" - 5/16" - 3/8" - 1/2" - 9/16" - 5/8" - 3/4"	3,09 kg

Allen key set, long

- Long execution
- DIN ISO 2936
- Continuous hardened
- Matt chrome
- Special tool steel
- In durable folding holder

151.5040	10 pcs	1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 7 - 8 - 10 mm	401

Allen key set, long

- Long execution
- DIN ISO 2936
- Imperial sizes
- Continuous hardened
- Matt chrome
- Special tool steel
- In durable folding holder

151.5020	10 pcs	1/16" - 5/64" - 3/32" - 1/8" - 5/32" - 3/16" - 7/32" - 1/4" - 5/16" - 3/8"	371

Allen key set, extra long

- Extra long execution
- DIN ISO 2936
- Continuous hardened
- Matt chrome
- Special tool steel
- In durable folding holder

151.4980	10 pcs	1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 7 - 8 - 10 mm	502

Allen key set, extra long

- Extra long execution
- DIN ISO 2936
- Imperial sizes
- Continuous hardened
- Matt chrome
- Special tool steel
- In durable folding holder

151.4960	10 pcs	1/16" - 5/64" - 3/32" - 1/8" - 5/32" - 3/16" - 7/32" - 1/4" - 5/16" - 3/8"	492

Allen key set, extra long

- Extra long execution
- DIN ISO 2936
- each wrench width colour-coded
- Continuous hardened
- Matt chrome
- Special tool steel
- In durable folding holder

151.4640	14 pcs	1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 7 - 8 - 10 - 12 - 14 - 17 - 19 mm	3,00 kg

Allen key set, extra long

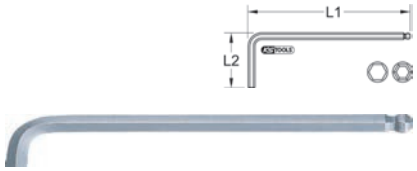
- Extra long execution
- DIN ISO 2936
- Imperial sizes
- each wrench width colour-coded
- Continuous hardened
- Matt chrome
- Special tool steel
- In durable folding holder

			kg
151.4650	14 pcs	1/16" - 5/64" - 3/32" - 1/8" - 5/32" - 3/16" - 7/32" - 1/4" - 5/16" - 3/8" - 1/2" - 9/16" - 5/8" - 3/4"	3,00

BALL ENDED HEXAGON KEY WRENCHES

Ball end hexagon socket right-angle pin wrench, shortened version

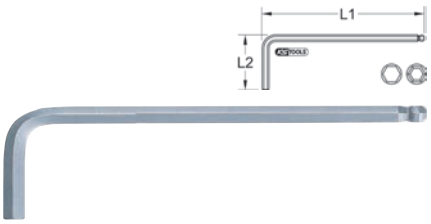
- L-key head height shortened
- With ball head on the long end
- Ideal for difficult to access screws
- Continuous hardened
- Matt chrome
- Special tool steel



	mm	L1 mm	L2 mm	g
151.2871	1,5	100,5	4,0	2
151.2872	2,0	112,0	4,5	3
151.2873	2,5	125,5	5,0	5
151.2874	3,0	141,0	5,5	8
151.2875	4,0	158,0	7,5	18
151.2876	5,0	180,0	8,5	31
151.2877	6,0	202,2	10,0	51
151.2878	8,0	224,0	12,0	104
151.2879	10,0	247,0	17,0	182

Ball ended hexagon key wrench, short

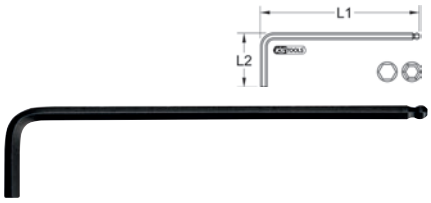
- Short execution
- DIN ISO 2936
- With ball head on the long end
- Ideal for difficult to access screws
- Continuous hardened
- Matt chrome
- Special tool steel



	mm		L1 mm	L2 mm	g
151.21615	1,5		46,5	15,5	10
151.2162	2,0		52,0	18,0	10
151.21625	2,5		58,5	20,5	10
151.2163	3,0		66,0	23,0	10
151.2164	4,0		74,0	29,0	10
151.2165	5,0		85,0	33,0	20
151.2166	6,0		96,0	38,0	30
151.2167	7,0		102,0	41,0	40
151.2168	8,0		108,0	44,0	60
151.2170	10,0		122,0	50,0	110
151.2172	12,0		137,0	57,0	170
151.2174	14,0		154,0	70,0	270
151.4741		1/16"	46,5	15,5	1
151.4742		5/64"	52,0	18,0	2
151.4743		3/32"	58,5	20,5	3
151.4744		1/8"	66,0	23,0	5
151.4745		5/32"	74,0	29,0	10
151.4746		3/16"	85,0	33,0	18
151.4747		7/32"	85,0	30,0	24
151.4748		1/4"	96,0	38,0	30
151.4749		5/16"	108,0	44,0	60
151.4750		3/8"	122,0	50,0	105

Ball ended hexagon key wrench, long

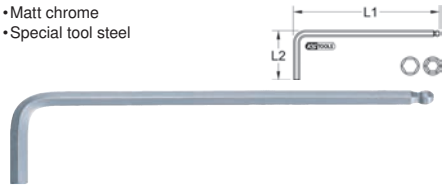
- Long execution
- In accordance to DIN ISO 2936
- With ball head on the long end
- Ideal for difficult to access screws
- Continuous hardened
- Phosphate finish
- Special tool steel



	mm		L1 mm	L2 mm	g
151.29013	1,3		63,5	13,0	10
151.29015	1,5		63,5	15,5	10
151.2902	2,0		77,0	18,0	10
151.29025	2,5		87,5	20,5	10
151.2903	3,0		93,0	23,0	10
151.29035	3,5		98,5	25,5	10
151.2904	4,0		104,0	29,0	10
151.29045	4,5		114,5	30,5	10
151.2905	5,0		120,0	33,0	30
151.29055	5,5		128,0	35,0	30
151.2906	6,0		141,0	38,0	40
151.2907	7,0		147,0	41,0	40
151.2908	8,0		158,0	44,0	80
151.2910	10,0		180,0	50,0	150
151.2912	12,0		202,0	57,0	250
151.2914	14,0		229,0	70,0	260
151.2920		1/16"	63,5	15,5	10
151.2921		5/64"	77,0	18,0	10
151.2922		3/32"	87,5	20,5	10
151.2923		7/64"	93,0	23,0	10
151.2924		1/8"	93,0	23,0	20
151.2925		9/64"	98,5	25,5	20
151.2926		5/32"	104,0	29,0	30
151.2927		3/16"	120,0	33,0	30
151.2928		7/32"	128,0	35,0	30
151.2929		1/4"	141,0	38,0	50
151.2930		5/16"	158,0	44,0	50
151.2931		3/8"	180,0	50,0	140
151.2932		1/2"	202,0	57,0	160
151.2933		9/16"	229,0	70,0	270

Ball ended hexagon key wrench, long

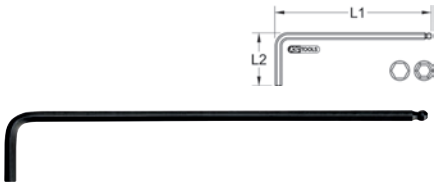
- Long execution
- DIN ISO 2936
- With ball head on the long end
- Ideal for difficult to access screws
- Continuous hardened
- Matt chrome
- Special tool steel



	mm		L1 mm	L2 mm	g
151.21013	1,3		63,5	13,0	10
151.21015	1,5		63,5	15,5	10
151.2102	2,0		77,0	18,0	10
151.21025	2,5		87,5	20,5	10
151.2103	3,0		93,0	23,0	10
151.21035	3,5		98,5	25,5	10
151.2104	4,0		104,0	29,0	10
151.21045	4,5		114,5	30,5	10
151.2105	5,0		120,0	33,0	30
151.21055	5,5		128,0	30,0	32
151.2106	6,0		141,0	38,0	40
151.2107	7,0		147,0	41,0	40
151.2108	8,0		158,0	44,0	80
151.2110	10,0		180,0	50,0	150
151.2112	12,0		202,0	57,0	250
151.2114	14,0		229,0	70,0	260
151.2131		1/16"	63,5	15,5	10
151.2132		5/64"	77,0	18,0	10
151.2133		3/32"	87,5	20,5	10
151.2134		7/64"	93,0	23,0	10
151.2135		1/8"	93,0	23,0	20
151.2136		9/64"	98,5	25,5	20
151.2137		5/32"	104,0	29,0	30
151.2138		3/16"	120,0	33,0	30
151.2139		7/32"	128,0	35,0	30
151.2140		1/4"	141,0	38,0	50
151.2141		5/16"	158,0	44,0	50
151.2142		3/8"	180,0	50,0	140
151.2143		1/2"	202,0	57,0	160
151.2144		9/16"	229,0	70,0	270

Ball ended hexagon key wrench, extra long

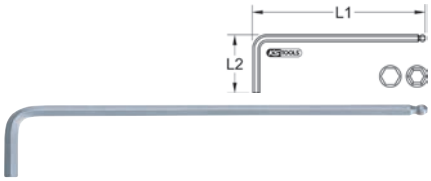
- Extra long execution
- In accordance to DIN ISO 2936
- With ball head on the long end
- Ideal for difficult to access screws
- Continuous hardened
- Phosphate finish
- Special tool steel



	mm		L1 mm	L2 mm	g
151.30013	1,3		81,0	13,0	10
151.30015	1,5		91,5	15,5	10
151.3002	2,0		102,0	18,0	10
151.30025	2,5		114,5	20,5	20
151.3003	3,0		129,0	23,0	20
151.30035	3,5		140,0	25,5	20
151.3004	4,0		144,0	29,0	20
151.30045	4,5		156,0	30,5	20
151.3005	5,0		165,0	33,0	30
151.30055	5,5		165,0	33,0	40
151.3006	6,0		186,0	38,0	50
151.3007	7,0		197,0	41,0	60
151.3008	8,0		208,0	44,0	80
151.3010	10,0		234,0	50,0	150
151.3012	12,0		262,0	57,0	250
151.3014	14,0		294,0	70,0	350
151.3017	17,0		337,0	80,0	350
151.3019	19,0		360,0	89,0	400
151.3020		1/16"	91,0	15,5	10
151.3021		5/64"	102,0	18,0	10
151.3022		3/32"	114,5	20,5	10
151.3023		7/64"	129,0	23,0	30
151.3024		1/8"	129,0	23,0	50
151.3025		9/64"	140,0	25,5	50
151.3026		5/32"	144,0	29,0	80
151.3027		3/16"	156,0	30,5	120
151.3028		7/32"	165,0	33,0	150
151.3029		1/4"	186,0	38,0	180
151.3030		5/16"	208,0	35,0	104
151.3031		3/8"	234,0	50,0	220
151.3032		1/2"	267,0	63,0	250
151.3033		9/16"	294,0	70,0	350

Ball ended hexagon key wrench, extra long

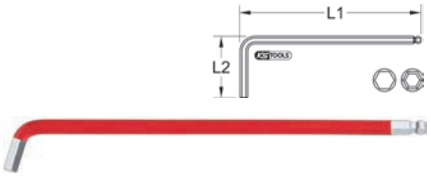
- Extra long execution
- DIN ISO 2936
- With ball head on the long end
- Ideal for difficult to access screws
- Continuous hardened
- Matt chrome
- Special tool steel



	mm		L1 mm	L2 mm	
151.31013	1,3		81,0	13,0	10
151.31015	1,5		91,5	15,5	10
151.3102	2,0		102,0	18,0	10
151.31025	2,5		114,5	20,5	10
151.3103	3,0		129,0	23,0	10
151.3104	4,0		144,0	29,0	20
151.3105	5,0		165,0	33,0	30
151.31055	5,5		165,0	33,0	40
151.3106	6,0		186,0	38,0	50
151.3107	7,0		197,0	41,0	80
151.3108	8,0		208,0	44,0	100
151.3110	10,0		234,0	50,0	150
151.3112	12,0		262,0	57,0	250
151.3114	14,0		294,0	70,0	270
151.3117	17,0		337,0	80,0	300
151.3119	19,0		360,0	89,0	350
151.3301		1/16"	91,0	15,5	10
151.3302		5/64"	102,0	18,0	10
151.3303		3/32"	114,5	20,5	10
151.3304		7/64"	129,0	23,0	30
151.3305		1/8"	129,0	23,0	50
151.3306		9/64"	140,0	25,5	50
151.3307		5/32"	144,0	29,0	80
151.3308		3/16"	156,0	30,5	120
151.3309		7/32"	165,0	33,0	150
151.3311		1/4"	186,0	38,0	180
151.3312		5/16"	208,0	44,0	200
151.3313		3/8"	234,0	50,0	220
151.3314		1/2"	267,0	63,0	250
151.3315		9/16"	294,0	70,0	350

Ball end hexagon socket wrench, extra long, 108° angled

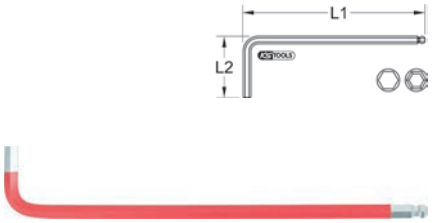
- extra long version with 108° angled short side
- With ball head on the long end
- Ideal for difficult to access screws
- each wrench width colour-coded
- Continuous hardened
- Matt chrome
- Special tool steel



	mm		Colour code	L1 mm	L2 mm	
151.4421	1,5		light orange	90,0	5,0	0,8
151.4422	2,0		pink	102,0	6,0	2
151.4423	2,5		purple	113,0	8,0	4
151.4424	3,0		blue	125,0	10,0	6
151.4425	4,0		dark green	142,0	15,0	12
151.4426	5,0		light green	165,0	18,0	28
151.4427	6,0		light yellow	182,0	20,0	42
151.4428	8,0		orange	200,0	28,0	80
151.4429	10,0		red	225,0	30,0	148
151.4431		1/16"	light orange	90,0	5,0	0,8
151.4432		5/64"	pink	102,0	6,0	2
151.4433		3/32"	purple	113,0	8,0	4
151.4434		1/8"	blue	125,0	10,0	6
151.4435		5/32"	dark green	142,0	15,0	12
151.4436		3/16"	light green	165,0	18,0	28
151.4437		1/4"	light yellow	182,0	20,0	42
151.4438		5/16"	orange	200,0	28,0	80
151.4439		3/8"	red	225,0	30,0	148

Ball ended hexagon key wrench, extra long

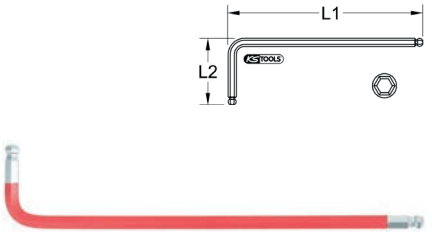
- Extra long execution
- DIN ISO 2936
- With ball head on the long end
- Ideal for difficult to access screws
- each wrench width colour-coded
- Continuous hardened
- Matt chrome
- Special tool steel



	mm		Colour code	L1 mm	L2 mm	
151.4661	1,5		pink	92,0	15,0	1
151.4662	2,0		violet	102,0	18,0	2
151.4663	2,5		light blue	115,0	20,5	5
151.4664	3,0		green	129,0	23,0	8
151.4665	4,0		yellow	144,0	29,0	17
151.4666	5,0		orange	165,0	32,0	31
151.4667	6,0		red	186,0	38,0	50
151.4668	8,0		purple	208,0	44,0	100
151.4669	10,0		blue	234,0	50,0	175
151.4670	12,0		mint green	263,0	55,0	285
151.4671	14,0		zinc yellow	295,0	70,0	442
151.4672	17,0		light orange	335,0	80,0	741
151.4673	19,0		magenta red	380,0	88,0	1038
151.4681		1/16"	pink	92,0	15,0	1
151.4682		5/64"	violet	102,0	18,0	2
151.4683		3/32"	light blue	115,0	20,5	5
151.4684		1/8"	green	129,0	23,0	8
151.4685		5/32"	yellow	144,0	29,0	17
151.4686		3/16"	orange	165,0	32,0	31
151.4687		1/4"	red	186,0	38,0	50
151.4688		5/16"	purple	208,0	44,0	100
151.4689		3/8"	blue	234,0	50,0	175
151.4690		1/2"	mint green	263,0	55,0	285
151.4691		9/16"	zinc yellow	295,0	70,0	442
151.4692		5/8"	light orange	335,0	80,0	741
151.4693		3/8"	magenta red	380,0	88,0	1038

Double ball head hexagon socket wrench, extremely long

- extremely long version
- DIN ISO 2936
- with ball head on the long end and the short end
- Ideal for difficult to access screws
- each wrench width colour-coded
- Continuous hardened
- Matt chrome
- Special tool steel



	mm	Colour code	L1 mm	L2 mm	
151.43015	1,5	pink	91,5	15,0	1
151.4302	2,0	violet	102,0	18,0	2
151.43025	2,5	light blue	114,5	20,5	5
151.4303	3,0	green	129,0	23,0	8
151.4304	4,0	yellow	144,0	29,0	17
151.4305	5,0	orange	165,0	32,0	31
151.4306	6,0	red	186,0	38,0	50
151.4308	8,0	purple	208,0	44,0	100
151.4310	10,0	blue	234,0	50,0	175
151.4312	12,0	mint green	263,0	55,0	285
151.4314	14,0	zinc yellow	295,0	70,0	442
151.4317	17,0	light orange	335,0	80,0	741
151.4319	19,0	magenta red	380,0	88,0	1038

BALL ENDED HEXAGON KEY WRENCH SETS

Ball ended hexagon key wrench set

- In accordance to DIN ISO 2936
- With ball end
- Ideal for difficult to access screws
- Continuous hardened
- Matt chrome
- Special tool steel
- In a durable folding holder with two component housing

158.3520	8 pcs	2,5 - 3 - 4 - 5 - 6 - 7 - 8 - 10 mm	440

Ballpoint Hexagon Socket Wrench Set, short

- Short execution
- DIN ISO 2936
- Ideal for difficult to access screws
- Continuous hardened
- Matt chrome
- Special tool steel
- In durable folding holder

151.4780	10 pcs	1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 7 - 8 - 10 mm	301

Ballpoint Hexagon Socket Wrench Set, short

- Short execution
- DIN ISO 2936
- Imperial sizes
- Ideal for difficult to access screws
- Continuous hardened
- Matt chrome
- Special tool steel
- In durable folding holder

151.4740	10 pcs	1/16" - 5/64" - 3/32" - 1/8" - 5/32" - 3/16" - 7/32" - 1/4" - 5/16" - 3/8"	296

Ball end hexagon socket wrench set, long

- Long execution
- DIN ISO 2936
- With ball head on the long end
- Ideal for difficult to access screws
- Continuous hardened
- Matt chrome
- Special tool steel
- In durable folding holder

151.5000	10 pcs	1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 7 - 8 - 10 mm	397

Ball end hexagon socket wrench set, long

- Long execution
- DIN ISO 2936
- Imperial sizes
- With ball head on the long end
- Ideal for difficult to access screws
- Continuous hardened
- Matt chrome
- Special tool steel
- In durable folding holder

151.5100	10 pcs	1/16" - 5/64" - 3/32" - 1/8" - 5/32" - 3/16" - 7/32" - 1/4" - 5/16" - 3/8"	416

Ball end hexagon socket wrench set, extra long

- Extra long execution
- DIN ISO 2936
- With ball head on the long end
- Ideal for difficult to access screws
- Continuous hardened
- Matt chrome
- Special tool steel
- In durable folding holder

151.4940	10 pcs	1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 7 - 8 - 10 mm	498

Ball end hexagon socket wrench set, extra long

- Extra long execution
- DIN ISO 2936
- With ball head on the long end
- Ideal for difficult to access screws
- Continuous hardened
- Matt chrome
- Special tool steel
- In durable plastic storage case

151.2150	10 pcs	3 - 4 - 5 - 6 - 7 - 8 - 10 - 12 - 14 - 17 mm	2,38

Ball end hexagon socket wrench set, extra long

- Extra long execution
- DIN ISO 2936
- Imperial sizes
- With ball head on the long end
- Ideal for difficult to access screws
- Continuous hardened
- Matt chrome
- Special tool steel
- In durable folding holder

151.4920	10 pcs	1/16" - 5/64" - 3/32" - 1/8" - 5/32" - 3/16" - 7/32" - 1/4" - 5/16" - 3/8"	449

Ball end hexagon socket wrench set, extra long

- Extra long execution
- DIN ISO 2936
- With ball head on the long end
- Ideal for difficult to access screws
- each wrench width colour-coded
- Continuous hardened
- Matt chrome
- Special tool steel
- In durable folding holder

151.4420	9 pcs	1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm	560

Ball end hexagon socket wrench set, extra long

- Extra long execution
- DIN ISO 2936
- Imperial sizes
- With ball head on the long end
- Ideal for difficult to access screws
- each wrench width colour-coded
- Continuous hardened
- Matt chrome
- Special tool steel
- In durable folding holder

151.4520	9 pcs	1/16" - 5/64" - 3/32" - 1/8" - 5/32" - 3/16" - 1/4" - 5/16" - 3/8"	560

Ball end hexagon socket wrench set, extra long and 108° angled

- extra long version with 108° angled short side
- With ball head on the long end
- Ideal for difficult to access screws
- each wrench width colour-coded
- Continuous hardened
- Matt chrome
- In durable folding holder
- Special tool steel

151.4560	9 pcs	1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm	560

Ball end hexagon socket wrench set, extra long and 108° angled

- extra long version with 108° angled short side
- Imperial sizes
- With ball head on the long end
- Ideal for difficult to access screws
- each wrench width colour-coded
- Continuous hardened
- Matt chrome
- Special tool steel
- In durable folding holder

151.4430	9 pcs	1/16" - 5/64" - 3/32" - 1/8" - 5/32" - 3/16" - 1/4" - 5/16" - 3/8"	560

Double ball end hexagon socket wrench set, extremely long

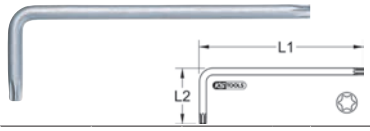
- extremely long version
- DIN ISO 2936
- with ball head on the long end and the short end
- Ideal for difficult to access screws
- each wrench width colour-coded
- Continuous hardened
- Matt chrome
- Special tool steel
- In durable folding holder

151.3222	9 pcs	1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm	426

TORX-HEXAGON KEY WRENCH

Torx key wrench, short

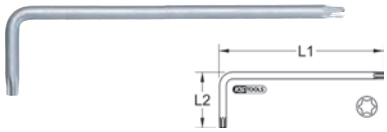
- Short execution
- Continuous hardened
- Matt chrome
- Special tool steel



		L1 mm	L2 mm	
151.2894	T5	46,0	16,0	5
151.2341	T6	42,0	16,0	10
151.2342	T7	48,0	16,0	10
151.2343	T8	48,0	16,0	10
151.2344	T9	48,0	16,0	10
151.2345	T10	51,0	17,0	10
151.2346	T15	54,0	18,0	10
151.2347	T20	57,0	19,0	10
151.2348	T25	60,0	20,0	10
151.2349	T27	64,0	21,0	20
151.2350	T30	70,0	24,0	30
151.2351	T40	76,0	26,0	40
151.2352	T45	82,0	28,0	50
151.2353	T50	95,0	32,0	60
151.2354	T55	108,0	35,0	130
151.2355	T60	120,0	38,0	190
151.2356	T70	133,0	41,0	280
151.2357	T80	146,0	44,0	430

Torx key wrench, long

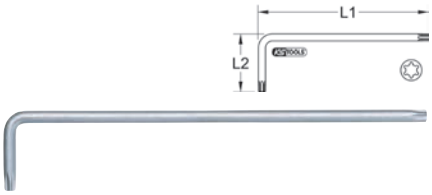
- Long execution
- Continuous hardened
- Matt chrome
- Special tool steel



		L1 mm	L2 mm	
151.2854	T5	72,0	13,0	10
151.2312	T6	66,0	16,0	10
151.2313	T7	71,0	16,0	10
151.2314	T8	76,0	16,0	10
151.2315	T9	80,0	16,0	10
151.2301	T10	86,0	17,0	10
151.2302	T15	90,0	18,0	10
151.2303	T20	95,0	19,0	10
151.2304	T25	100,0	20,0	20
151.2309	T27	105,0	21,0	30
151.2305	T30	114,0	24,0	40
151.2306	T40	124,0	26,0	70
151.2307	T45	133,0	28,0	100
151.2308	T50	152,0	32,0	140
151.2310	T55	171,0	35,0	180
151.2311	T60	190,0	38,0	280

Torx key wrench, extra long

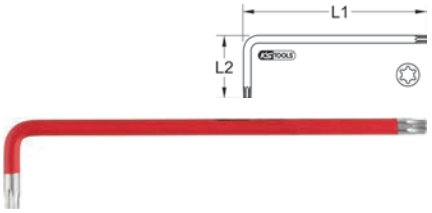
- Extra long execution
- Continuous hardened
- Matt chrome
- Special tool steel



		L1 mm	L2 mm	g
151.2893	T5	72,0	16,0	8
151.3171	T8	80,0	12,0	6
151.3161	T10	90,0	14,0	10
151.3162	T15	100,0	16,0	10
151.3163	T20	112,0	18,0	10
151.3164	T25	126,0	20,0	20
151.3165	T27	140,0	25,0	30
151.3166	T30	160,0	28,0	40
151.3167	T40	180,0	32,0	60
151.3168	T45	200,0	36,0	90
151.3169	T50	224,0	40,0	130

Torx key wrench, extra long

- Extra long execution
- each wrench width colour-coded
- Continuous hardened
- Matt chrome
- Special tool steel



		Colour code	L1 mm	L2 mm	g
151.4441	T8	light orange	80,0	12,0	6
151.4442	T10	pink	90,0	14,0	6
151.4443	T15	purple	100,0	16,0	9
151.4444	T20	blue	112,0	18,0	13
151.4445	T25	dark green	126,0	20,0	18
151.4446	T27	light green	150,0	25,0	26
151.4447	T30	light yellow	160,0	28,0	41
151.4448	T40	zinc yellow	180,0	32,0	63
151.4449	T45	orange	200,0	36,0	92
151.4451	T50	red	224,0	40,0	130
151.4452	T55	violet	250,0	45,0	236
151.4453	T60	turquoise	280,0	56,0	394
151.4454	T70	green	320,0	63,0	590
151.4455	T80	yellow	360,0	70,0	841

TORX-HEXAGON KEY WRENCH SETS

Torx key wrench set

- Continuous hardened
- Matt chrome
- Special tool steel
- In a durable folding holder with two component housing

			g
158.3510	8 pcs	T8 - T10 - T15 - T20 - T25 - T27 - T30 - T40	300

Torx angle key wrench set, short

- Short execution
- Continuous hardened
- Matt chrome
- Special tool steel
- In durable folding holder

			g
151.4900	10 pcs	T8 - T10 - T15 - T20 - T25 - T27 - T30 - T40 - T45 - T50	228

Torx angle key wrench set, short

- Short execution
- Continuous hardened
- Matt chrome
- Special tool steel
- In durable folding holder

			kg
151.4610	14 pcs	T8 - T10 - T15 - T20 - T25 - T27 - T30 - T40 - T45 - T50 - T55 - T60 - T70 - T80	1,26

Torx L-key set, long

- Long execution
- Continuous hardened
- Matt chrome
- Special tool steel
- In durable folding holder

			g
151.4880	10 pcs	T8 - T10 - T15 - T20 - T25 - T27 - T30 - T40 - T45 - T50	325

Torx L-key set, extra long

- Extra long execution
- Continuous hardened
- Matt chrome
- Special tool steel
- In durable folding holder

			g
151.4550	9 pcs	T10 - T15 - T20 - T25 - T27 - T30 - T40 - T45 - T50	427

Torx L-key set, extra long

- Extra long execution
- Continuous hardened
- Matt chrome
- Special tool steel
- In durable folding holder

			g
151.4860	10 pcs	T8 - T10 - T15 - T20 - T25 - T27 - T30 - T40 - T45 - T50	433

Torx L-key set, extra long

- Extra long execution
- each wrench width colour-coded
- Continuous hardened
- Matt chrome
- In durable folding holder
- Special tool steel

			g
151.4760	9 pcs	T10 - T15 - T20 - T25 - T27 - T30 - T40 - T45 - T50	433

Torx L-key set, extra long

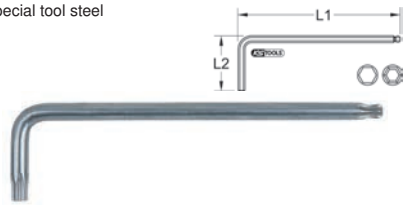
- Extra long execution
- each wrench width colour-coded
- Continuous hardened
- Matt chrome
- Special tool steel
- In durable folding holder

			kg
151.4440	14 pcs	T8 - T10 - T15 - T20 - T25 - T27 - T30 - T40 - T45 - T50 - T55 - T60 - T70 - T80	2,50

TORX BALL ENDED KEY WRENCH

Ball head Torx angled pin wrench, long

- Long execution
- Continuous hardened
- Ball head on the long end
- Ideal for difficult to access screws
- Matt chrome
- Special tool steel

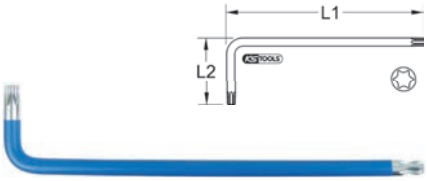


		L1 mm	L2 mm	g
151.2834	T5	62,0	16,0	6
151.2835	T6	66,0	16,0	6

		L1 mm	L2 mm	g	
151.2836	T7	71,0	16,0	6	
151.2838	T9	80,0	16,0	8	
151.2401	T10	86,0	17,0	10	
151.2402	T15	90,0	18,0	10	
151.2403	T20	95,0	19,0	10	
151.2404	T25	100,0	20,0	20	
151.2839	T27	105,0	21,0	24	
151.2405	T30	114,0	24,0	30	
151.2406	T40	124,0	26,0	50	
151.2407	T45	133,0	29,0	60	
151.2408	T50	152,0	32,0	90	

Ball head Torx angled pin wrench, extra long

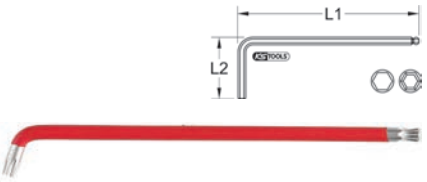
- Extra long execution
- DIN ISO 2936
- With ball head on the long end
- Ideal for difficult to access screws
- each wrench width colour-coded
- Continuous hardened
- Matt chrome
- Special tool steel



		Colour code	L1 mm	L2 mm	g	
151.4271	T10	pink	92,0	19,0	5	
151.4272	T15	violet	103,0	21,0	8	
151.4273	T20	light blue	116,0	22,0	12	
151.4274	T25	green	120,0	24,0	18	
151.4275	T27	yellow	145,0	30,0	26	
151.4276	T30	orange	165,0	33,0	40	
151.4277	T40	red	186,0	37,0	62	
151.4278	T45	purple	207,0	41,0	91	
151.4279	T50	blue	234,0	47,0	130	
151.4280	T55	mint green	263,0	55,0	237	
151.4281	T60	zinc yellow	295,0	70,0	400	
151.4282	T70	light orange	335,0	80,0	595	
151.4283	T80	magenta red	380,0	88,0	850	

Ball Head Torx Angled L-key, extra long, 108° angled

- extra long version with 108° angled short side
- With ball head on the long end
- Ideal for difficult to access screws
- each wrench width colour-coded
- Continuous hardened
- Matt chrome
- Special tool steel



		Colour code	L1 mm	L2 mm	g	
151.4291	T10	pink	100,0	15,0	4	
151.4292	T15	purple	105,0	16,0	6	
151.4293	T20	blue	115,0	18,0	10	
151.4294	T25	dark green	130,0	20,0	16	
151.4295	T27	light green	145,0	20,0	20	
151.4296	T30	light yellow	175,0	20,0	30	
151.4297	T40	yellow	195,0	24,0	56	
151.4298	T45	orange	220,0	27,0	74	
151.4299	T50	red	250,0	30,0	114	

TORX BALL ENDED KEY WRENCH SETS

Ball head Torx angled socket wrench set, long

- Long execution
- With ball head on the long end
- Continuous hardened
- Matt chrome
- Special tool steel
- In durable folding holder

			g	
151.5180	10 pcs	T8 - T10 - T15 - T20 - T25 - T27 - T30 - T40 - T45 - T50	325	

Ball head Torx angled socket wrench set, extra long

- Extra long execution
- With ball head on the long end
- each wrench width colour-coded
- Continuous hardened
- Matt chrome
- Special tool steel
- In durable folding holder

			g	
151.5210	9 pcs	T10 - T15 - T20 - T25 - T27 - T30 - T40 - T45 - T50	427	

Ball head Torx angled socket wrench set, extra long and 108° angled

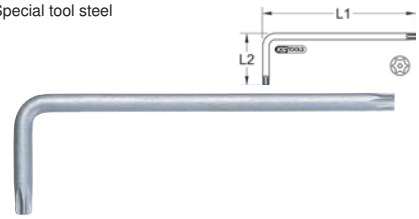
- extra long version with 108° angled short side
- With ball head on the long end
- Ideal for difficult to access screws
- each wrench width colour-coded
- Continuous hardened
- Matt chrome
- Special tool steel
- In durable folding holder

			g	
151.4530	9 pcs	T10 - T15 - T20 - T25 - T27 - T30 - T40 - T45 - T50	427	

TORX TAMPERPROOF HEXAGON KEY WRENCH

Torx tamperproof key wrench, short

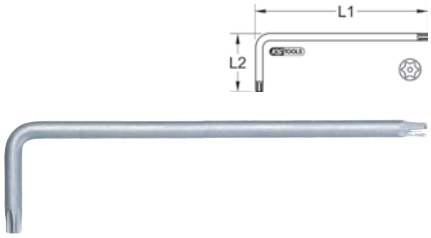
- Short execution
- Bore hole at the short and long end
- Continuous hardened
- Matt chrome
- Special tool steel



		L1 mm	L2 mm	g	
151.2241	TB6	42,0	16,0	10	
151.2242	TB7	48,0	16,0	10	
151.2243	TB8	48,0	16,0	10	
151.2244	TB9	48,0	16,0	10	
151.2245	TB10	51,0	17,0	10	
151.2246	TB15	54,0	18,0	10	
151.2247	TB20	57,0	19,0	10	
151.2248	TB25	60,0	20,0	10	
151.2249	TB27	64,0	21,0	20	
151.2250	TB30	70,0	24,0	30	
151.2251	TB40	76,0	26,0	40	
151.2252	TB45	82,0	28,0	50	
151.2253	TB50	95,0	32,0	60	
151.2254	TB55	108,0	35,0	130	
151.2255	TB60	120,0	38,0	190	

Torx tamperproof key wrench, long

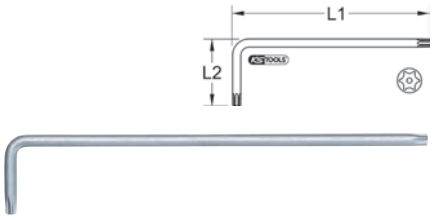
- Long execution
- Bore hole at the short and long end
- Continuous hardened
- Matt chrome
- Special tool steel



		L1 mm	L2 mm	g	
151.2955	TB5	72,0	13,0	8	
151.2212	TB6	66,0	16,0	10	
151.2213	TB7	71,0	16,0	10	
151.2214	TB8	76,0	16,0	10	
151.2215	TB9	80,0	16,0	10	
151.2201	TB10	86,0	17,0	10	
151.2202	TB15	90,0	18,0	10	
151.2203	TB20	95,0	19,0	10	
151.2204	TB25	100,0	20,0	20	
151.2209	TB27	105,0	21,0	30	
151.2205	TB30	114,0	24,0	40	
151.2206	TB40	124,0	26,0	70	
151.2207	TB45	133,0	28,0	100	
151.2208	TB50	152,0	32,0	140	
151.2210	TB55	171,0	35,0	180	
151.2211	TB60	190,0	38,0	280	

Torx tamperproof key wrench, extra long

- Extra long execution
- Bore hole at the short and long end
- Continuous hardened
- Matt chrome
- Special tool steel



		L1 mm	L2 mm	g	
151.3181	TB10	90,0	14,0	10	
151.3182	TB15	100,0	16,0	10	
151.3183	TB20	112,0	18,0	10	
151.3184	TB25	126,0	20,0	20	
151.3185	TB27	140,0	25,0	30	
151.3186	TB30	160,0	28,0	40	
151.3187	TB40	180,0	32,0	60	
151.3188	TB45	200,0	36,0	90	
151.3189	TB50	224,0	40,0	130	

TORX TAMPERPROOF KEY WRENCH SETS

Torx tamperproof key wrench set

- Tamperproof
- Continuous hardened
- Matt chrome
- Special tool steel
- In a durable folding holder with two component housing

158.3530	8 pcs	TB8 - TB10 - TB15 - TB20 - TB25 - TB27 - TB30 - TB40	300

Torx right-angle wrench set with bore, short

- Short execution
- Bore hole at the short and long end
- Continuous hardened
- Matt chrome
- Special tool steel
- In durable folding holder

151.4570	9 pcs	TB10 - TB15 - TB20 - TB25 - TB27 - TB30 - TB40 - TB45 - TB50	230

Torx right-angle wrench set with bore, short

- Short execution
- Bore hole at the short and long end
- Continuous hardened
- Matt chrome
- Special tool steel
- In durable folding holder

151.4840	10 pcs	TB8 - TB10 - TB15 - TB20 - TB25 - TB27 - TB30 - TB40 - TB45 - TB50	224

Torx right-angle wrench set with bore, long

- Long execution
- Bore hole at the short and long end
- Continuous hardened
- Matt chrome
- Special tool steel
- In durable folding holder

151.4820	10 pcs	TB8 - TB10 - TB15 - TB20 - TB25 - TB27 - TB30 - TB40 - TB45 - TB50	314

Torx right-angle wrench set with bore, extra long

- Extra long execution
- Bore hole at the short and long end
- Continuous hardened
- Matt chrome
- Special tool steel
- In durable folding holder

151.4580	9 pcs	TB10 - TB15 - TB20 - TB25 - TB27 - TB30 - TB40 - TB45 - TB50	441

Torx right-angle wrench set with bore, extra long

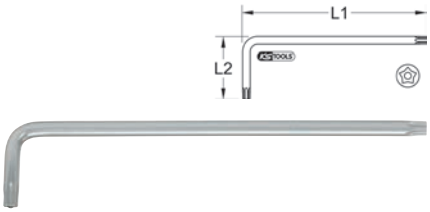
- Extra long execution
- Bore hole at the short and long end
- Continuous hardened
- Matt chrome
- Special tool steel
- In durable folding holder

151.4800	10 pcs	TB8 - TB10 - TB15 - TB20 - TB25 - TB27 - TB30 - TB40 - TB45 - TB50	427

FIVE STAR PROFILE TAMPERPROOF KEY WRENCH

Five star profile tamperproof key wrench, extra long

- Extra long execution
- Bore hole at the short and long end
- Continuous hardened
- Matt chrome
- Special tool steel



		L1 mm	L2 mm	
151.2469	TS8	80,0	12,0	8
151.2471	TS10	94,0	18,0	10
151.2472	TS15	104,0	20,0	10
151.2473	TS20	116,0	22,0	10
151.2474	TS25	130,0	25,0	20
151.2475	TS27	133,0	30,0	30
151.2476	TS30	167,0	34,0	40
151.2477	TS40	190,0	38,0	60
151.2478	TS45	190,0	44,0	90
151.2479	TS50	245,0	50,0	130

FIVE STAR PROFILE TAMPERPROOF KEY WRENCH SETS

Five star profile tamperproof key wrench set

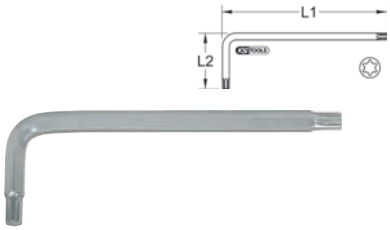
- Long execution
- Bore hole at the short and long end
- Continuous hardened
- Matt chrome
- Special tool steel
- In durable folding holder

151.2482	10 pcs	TS8 - TS10 - TS15 - TS20 - TS25 - TS27 - TS30 - TS40 - TS45 - TS50	506

RIBE KEY WRENCH

RIBE® Key wrench, Short

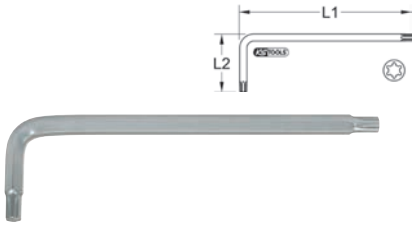
- Short execution
- Continuous hardened
- Matt chrome
- Special tool steel



		L1 mm	L2 mm	
151.4621	M4	57,0	20,0	8
151.4622	M5	64,0	21,0	15
151.4623	M6	70,0	24,0	23
151.4624	M8	82,0	28,0	40
151.4625	M10	108,0	36,0	90
151.4626	M12	108,0	36,0	130
151.4627	M14	125,0	45,0	200
151.4628	M16	140,0	55,0	310
151.4629	M18	140,0	55,0	350

RIBE® Key wrench, extra long

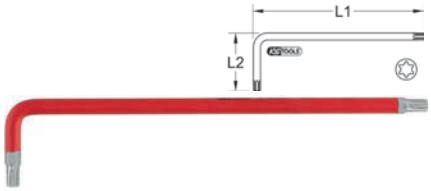
- Extra long execution
- Continuous hardened
- Matt chrome
- Special tool steel



		L1 mm	L2 mm	
151.2451	M4	144,0	29,0	20
151.2452	M5	165,0	33,0	30
151.2453	M6	186,0	38,0	40
151.2454	M7	197,0	41,0	80
151.2455	M8	208,0	44,0	90
151.2456	M9	219,0	47,0	150
151.2457	M10	234,0	50,0	170
151.2670	M12	262,0	57,0	256
151.2671	M14	294,0	70,0	397
151.2672	M16	337,0	80,0	595
151.2458	M18	379,0	89,0	849

RIBE® Key wrench, extra long

- Extra long execution
- each wrench width colour-coded
- Continuous hardened
- Matt chrome
- Special tool steel



		Colour code	L1 mm	L2 mm	kg	
151.4501	M4	light orange	112,0	20,0	0,01	
151.4502	M5	pink	140,0	25,0	0,03	
151.4509	M6	purple	160,0	28,0	0,04	
151.4503	M8	blue	200,0	36,0	0,10	
151.4504	M10	green	250,0	44,0	0,18	
151.4505	M12	light green	250,0	45,0	0,26	
151.4506	M14	yellow	280,0	56,0	0,40	
151.4507	M16	orange	320,0	63,0	0,59	
151.4508	M18	red	360,0	70,0	1,08	

RIBE HEXAGON KEY WRENCH SETS

RIBE® Key wrench set, short

- Short execution
- Continuous hardened
- Matt chrome
- Special tool steel
- In durable folding holder

			kg	
151.4620	9 pcs	M4 - M5 - M6 - M8 - M10 - M12 - M14 - M16 - M18	2,71	

RIBE®-Angle L-key set, extra long

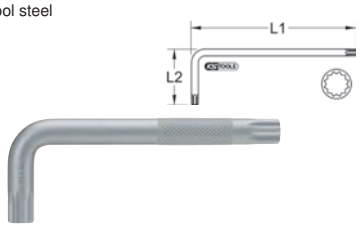
- Extra long execution
- each wrench width colour-coded
- Continuous hardened
- Matt chrome
- Special tool steel
- In durable folding holder

			kg	
151.4500	9 pcs	M4 - M5 - M6 - M8 - M10 - M12 - M14 - M16 - M18	1,20	

SPLINE-HEXAGON KEY WRENCH (XZN®)

Multi-tooth (XZN®) right-angle pin wrench, short

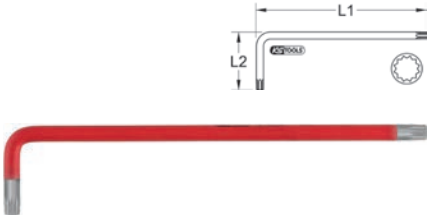
- Short execution
- Continuous hardened
- Matt chrome
- Special tool steel



		L1 mm	L2 mm	g	
151.4101	M4	63,0	20,0	10	
151.4102	M5	72,0	24,0	10	
151.4103	M6	76,0	26,0	20	
151.4104	M8	82,0	28,0	40	
151.4105	M10	93,0	31,0	80	
151.4106	M12	106,0	34,0	80	
151.4107	M14	125,0	45,0	80	
151.4108	M16	140,0	55,0	80	
151.2673	M18	178,0	81,0	333	

Spline key wrench, Extra long

- Extra long execution
- each wrench width colour-coded
- Continuous hardened
- Matt chrome
- Special tool steel



		Colour code	L1 mm	L2 mm	kg	
151.4511	M4	light orange	112,0	20,0	0,01	
151.4512	M5	pink	140,0	25,0	0,03	
151.4519	M6	purple	150,0	28,0	0,04	
151.4513	M8	blue	200,0	36,0	0,10	
151.4514	M10	green	250,0	44,0	0,18	
151.4515	M12	light green	250,0	45,0	0,26	
151.4516	M14	yellow	280,0	56,0	0,40	
151.4517	M16	orange	320,0	63,0	0,59	
151.4518	M18	red	360,0	70,0	1,08	

SPLINE-HEXAGON KEY WRENCH SETS (XZN®)

Spline key wrench set

- Short execution
- Continuous hardened
- Matt chrome
- Special tool steel
- In sturdy sheet steel box

			g	
151.4100	5 pcs	M5 - M6 - M8 - M10 - M12	150	

Spline key wrench setshort

- Short execution
- Continuous hardened
- Matt chrome
- Special tool steel
- In durable folding holder

			kg	
151.4630	9 pcs	M4 - M5 - M6 - M8 - M10 - M12 - M14 - M16 - M18	2,71	

Spline key wrench set, Extra long

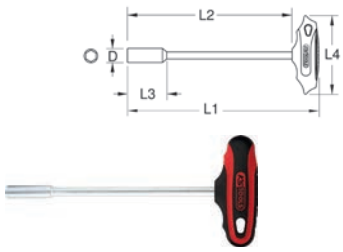
- Extra long execution
- each wrench width colour-coded
- Continuous hardened
- Matt chrome
- Special tool steel
- In durable folding holder

			kg	
151.4510	9 pcs	M4 - M5 - M6 - M8 - M10 - M12 - M14 - M16 - M18	1,20	

T-HANDLE NUT SCREWDRIVER

T-handle socket screwdriver, long

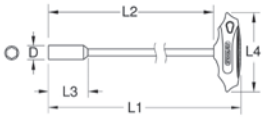
- Long execution
- FlankTraction profile
- Two component handle
- Continuous hardened
- Matt chrome
- Special tool steel



	mm	D mm	L1 mm	L2 mm	L3 mm	L4 mm	g	
158.50055	5,5	9,9	264,0	230,0	10,0	95,0	80	
158.5006	6	9,9	264,0	230,0	10,0	95,0	100	
158.5007	7	10,1	264,0	230,0	10,0	95,0	120	
158.5008	8	12,5	270,0	230,0	14,0	115,0	140	
158.5009	9	13,6	270,0	230,0	12,0	115,0	150	
158.5010	10	14,5	270,0	230,0	14,0	115,0	160	
158.5011	11	15,7	270,0	230,0	15,0	115,0	180	
158.5012	12	16,7	270,0	230,0	15,0	115,0	180	
158.5013	13	17,6	270,0	230,0	16,0	115,0	180	
158.5014	14	19,2	270,0	230,0	15,0	115,0	190	

T-handle socket screwdriver, extra long

- Extra long execution
- FlankTraction profile
- Two component handle
- Continuous hardened
- Matt chrome
- Special tool steel



	mm	D mm	L1 mm	L2 mm	L3 mm	L4 mm	g
158.5408	8	12,6	390,0	350,0	13,0	115,0	180
158.5409	9	13,6	390,0	350,0	14,0	115,0	190
158.5410	10	14,7	390,0	350,0	15,0	115,0	220
158.5413	13	17,7	390,0	350,0	15,0	115,0	230
158.5414	14	19,1	390,0	350,0	16,0	115,0	250

T-HANDLE NUT SCREWDRIVER SETS

T-handle socket srewdriver set

- FlankTraction profile
- Two component handle
- Continuous hardened
- Matt chrome
- Special tool steel
- In sturdy wall bracket

			kg
158.5000	6 pcs	6 - 8 - 10 - 12 - 13 - 14 mm	1,40

T-HANDLE HEXAGON SOCKET KEY WRENCH

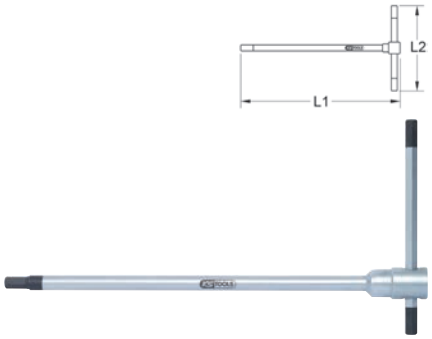
T-handle hexagon key wrench

- Two component handle
- Continuous hardened
- Tip burnished
- Matt chrome
- Special tool steel

	mm	L1 mm	L2 mm	L3 mm	g
158.8032	2,0	130,0	100,0	80,0	20
158.80325	2,5	130,0	100,0	80,0	30
158.8033	3,0	130,0	100,0	80,0	30
158.8034	4,0	180,0	150,0	80,0	50
158.8035	5,0	185,0	150,0	100,0	100
158.8036	6,0	185,0	150,0	100,0	140
158.8037	7,0	185,0	150,0	100,0	157
158.8038	8,0	230,0	200,0	100,0	320
158.8040	10,0	235,0	200,0	115,0	360

3 Way T-handle hexagonal key wrench

- Hexagonal profile on three ends
- For difficult to access areas
- Matt finish
- Chrome finish with burnished tips
- Chrome vanadium



	mm	L1 mm	L2 mm	g
158.5102	2,0	125,0	65,0	23
158.51025	2,5	125,0	65,0	23
158.5103	3,0	125,0	65,0	23
158.5104	4,0	180,0	90,0	59
158.51045	4,5	180,0	90,0	59
158.5105	5,0	180,0	90,0	60
158.5106	6,0	210,0	105,0	126
158.5108	8,0	250,0	125,0	208
158.5110	10,0	300,0	145,0	384
158.5147	12,0	320,0	165,0	570
158.5148	14,0	340,0	170,0	805

T-handle hexagon key wrench

- Two component handle
- Continuous hardened
- Matt chrome
- Special tool steel

	mm		L1 mm	L2 mm	L3 mm	g
151.2686	2,0		142,0	100,0	12,0	12
151.2687	2,5		142,0	100,0	12,0	15
151.2688	3,0		167,0	125,0	12,0	19
151.2841	3,5		192,0	150,0	14,0	27
151.2689	4,0		211,0	150,0	14,0	49
151.2690	4,5		211,0	150,0	14,0	60
151.2691	5,0		211,0	150,0	14,0	68
151.2692	6,0		236,0	175,0	14,0	91
151.2693	7,0		261,0	200,0	14,0	142
151.2694	8,0		279,0	200,0	16,0	175
151.2695	10,0		304,0	225,0	16,0	257
151.2956		5/64"	142,0	100,0	12,0	14
151.2842		3/32"	142,0	100,0	12,0	17
151.2843		7/64"	142,0	100,0	12,0	17
151.2844		1/8"	142,0	100,0	12,0	20
151.2845		9/64"	142,0	100,0	12,0	27
151.2846		5/32"	210,0	150,0	14,0	34
151.2847		3/16"	210,0	150,0	14,0	67
151.2848		7/32"	210,0	150,0	14,0	85
151.2849		1/4"	210,0	150,0	14,0	85
151.2851		5/16"	260,0	200,0	16,0	153
151.2852		3/8"	260,0	200,0	16,0	271

T-HANDLE HEXAGON SOCKET KEY WRENCH SETS

T-handle key wrench set

- In accordance to DIN ISO 2936
- Continuous hardened
- Matt chrome
- Tip burnished
- Special tool steel
- In durable wall holder

			kg
158.8130	8 pcs	2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm	1,08

3 Way T-handle hexagonal key wrench set

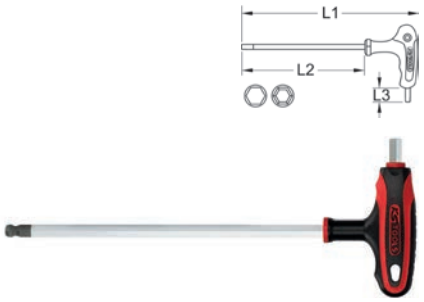
- Hexagonal profile on three ends
- For difficult to access areas
- Matt finish
- Chrome finish with burnished tips
- Chrome vanadium
- In durable plastic storage case

			kg
158.5100	8 pcs	2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm	2,00

T-HANDLE BALL ENDED-HEXAGON KEY WRENCHES

T-handle ball ended hexagon key wrench

- With ball head on the long end
- Ideal for difficult to access screws
- Two component handle
- Continuous hardened
- Tip burnished
- Matt chrome
- Special tool steel



	mm	L1 mm	L2 mm	L3 mm	g
151.8130	2,0	138,0	100,0	12,0	20
151.8131	2,5	140,0	100,0	13,0	30
151.8132	3,0	140,0	100,0	15,0	30
151.8133	4,0	188,0	150,0	15,0	50
151.8134	5,0	205,0	150,0	15,0	100
151.8135	6,0	205,0	150,0	15,0	140
151.8136	7,0	210,0	150,0	15,0	300
151.8137	8,0	250,0	200,0	15,0	320
151.8138	10,0	275,0	200,0	18,0	360
151.8139	12,0	275,0	200,0	20,0	420

T-HANDLE BALL ENDED HEXAGON SOCKET KEY WRENCH SETS

T-handle ball ended hexagon key wrench set

- With ball head on the long end
- Ideal for difficult to access screws
- Two component handle
- Continuous hardened
- Matt chrome
- Special tool steel

			g
151.8155	8 pcs	2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm	440

T-handle ball ended hexagon key wrench set

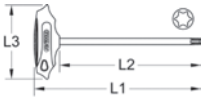
- With ball head on the long end
- Ideal for difficult to access screws
- Two component handle
- Continuous hardened
- Matt chrome
- Special tool steel
- In durable plastic storage case

			kg
151.8150	9 pcs	2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 - 12 mm	1,80

T-HANDLE TORX-KEY WRENCH

T-handle Torx key wrench

- Two component handle
- Continuous hardened
- Matt chrome
- Special tool steel



		L1 mm	L2 mm	L3 mm	g
158.8015	T5	130,0	100,0	80,0	18
158.8016	T6	130,0	100,0	80,0	18
158.8017	T7	130,0	100,0	80,0	18
158.8018	T8	130,0	100,0	80,0	33
158.8019	T9	130,0	100,0	80,0	38
158.8020	T10	130,0	100,0	80,0	38
158.8021	T15	130,0	100,0	80,0	30
158.8022	T20	130,0	100,0	80,0	30
158.8023	T25	135,0	100,0	100,0	50
158.8024	T27	135,0	100,0	100,0	100
158.8025	T30	235,0	200,0	100,0	300
158.8026	T40	235,0	200,0	100,0	300
158.8027	T45	285,0	250,0	100,0	320
158.8028	T50	290,0	250,0	115,0	360

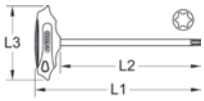
T-handle Torx key wrench set

- Continuous hardened
- Matt chrome
- Tip burnished
- Special tool steel
- In durable wall holder

			kg
158.8160	9 pcs	T10 - T15 - T20 - T25 - T27 - T30 - T40 - T45 - T50	1,33

T-handle Torx key wrench, long

- Extra long execution
- Two component handle
- Continuous hardened
- Matt chrome
- Special tool steel



		L1 mm	L2 mm	L3 mm	g
158.8051	T10	403,0	373,0	80,0	30
158.8052	T15	403,0	373,0	80,0	30
158.8053	T20	403,0	373,0	100,0	40
158.8054	T25	408,0	373,0	100,0	40
158.8055	T27	408,0	373,0	100,0	40
158.8056	T30	408,0	373,0	100,0	45

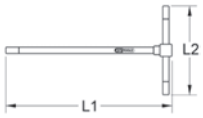
T-handle Torx key wrench set

- Extra long execution
- Two component handle
- Continuous hardened
- Matt chrome
- Special tool steel

			g
158.8050	6 pcs	T10 - T15 - T20 - T25 - T27 - T30	375

3 Way T-handle Torx key wrench

- Torx profile on three ends
- For difficult to access areas
- Matt finish
- Chrome finish with burnished tips
- Chrome vanadium



		L1 mm	L2 mm		
158.5201	T10	125,0	65,0	23	
158.5202	T15	125,0	65,0	23	
158.5203	T20	125,0	65,0	23	
158.5204	T25	180,0	90,0	59	
158.5205	T27	180,0	90,0	59	
158.5206	T30	180,0	90,0	60	
158.5207	T40	180,0	90,0	126	
158.5208	T45	180,0	90,0	208	
158.5209	T50	250,0	125,0	384	

3 Way T-handle Torx key wrench set

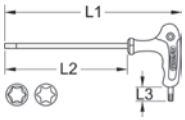
- Torx profile on three ends
- For difficult to access areas
- Matt finish
- Chrome finish with burnished tips
- Chrome vanadium
- In durable plastic storage case

158.5200	9 pcs	T10 - T15 - T20 - T25 - T27 - T30 - T40 - T45 - T50	1,88	

T-HANDLE TORX-BALL ENDED KEY WRENCH

T-handle ball ended Torx key wrench

- With ball head on the long end
- Ideal for difficult to access screws
- Two component handle
- Continuous hardened
- Matt chrome
- Special tool steel

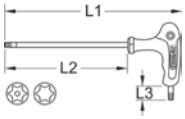


		L1 mm	L2 mm	L3 mm		
151.2751	T6	167,0	125,0	12,0	20	
151.2752	T7	167,0	125,0	12,0	20	
151.2753	T8	167,0	125,0	12,0	20	
151.2754	T9	167,0	125,0	12,0	25	
151.2755	T10	167,0	125,0	12,0	30	
151.2756	T15	167,0	125,0	12,0	35	
151.2757	T20	167,0	125,0	12,0	40	
151.2758	T25	211,0	150,0	14,0	50	
151.2759	T27	211,0	150,0	14,0	70	
151.2760	T30	211,0	150,0	14,0	75	
151.2761	T40	254,0	175,0	16,0	120	
151.2853	T50	279,0	200,0	16,0	528	

T-HANDLE TORX TAMPERPROOF KEY WRENCH

T-handle Torx tamperproof key wrench

- Tamperproof
- Two component handle
- Continuous hardened
- Tip burnished
- Matt chrome
- Special tool steel



		L1 mm	L2 mm	L3 mm		
151.8119	TB9	100,0	100,0	13,0	20	
151.8121	TB10	140,0	100,0	13,0	20	
151.8122	TB15	140,0	100,0	15,0	30	
151.8123	TB20	140,0	100,0	15,0	30	
151.8124	TB25	208,0	150,0	15,0	50	
151.8125	TB27	208,0	150,0	15,0	100	
151.8126	TB30	208,0	150,0	15,0	140	
151.8127	TB40	260,0	200,0	15,0	300	
151.8128	TB45	260,0	200,0	18,0	320	
151.8129	TB50	280,0	200,0	20,0	360	

T-HANDLE TORX TAMPERPROOF KEY WRENCH SETS

T-handle Torx tamperproof key wrench set

- Tamperproof
- Two component handle
- Continuous hardened
- Tip burnished
- Matt chrome
- Special tool steel

151.8165	8 pcs	TB9 - TB10 - TB15 - TB20 - TB25 - TB27 - TB30 - TB40	0,70	

T-handle Torx tamperproof key wrench set

- Tamperproof
- Two component handle
- Continuous hardened
- Tip burnished
- Matt chrome
- Special tool steel
- In durable plastic storage case

151.8160	9 pcs	TB10 - TB15 - TB20 - TB25 - TB27 - TB30 - TB40 - TB45 - TB50	1,80	

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Innovation is our mission!


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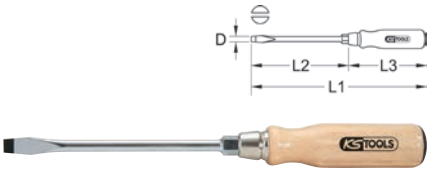
our mission!

ERGOTORQUE® WOOD SCREWDRIVER

ERGOTORQUE® WOOD screwdriver for slotted screws

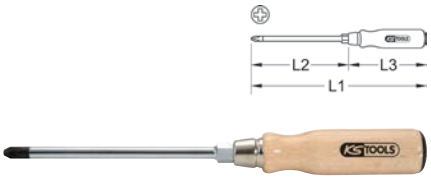
- DIN 5265 / ISO 2380
- Includes hexagon drive for a spanner or wrench
- Protective leather cap on the handle end
- Optimal power transmission
- Ergonomically formed, sealed beech wood handle
- Hardened blade
- Chrome finish with burnished tips
- Blade made of chrome vanadium



	D mm	L1 mm	L2 mm	L3 mm		
300.1001	3,5	170,0	75,0	95,0	●	50
300.1002	4,5	185,0	90,0	95,0	●	50
300.1003	5,5	200,0	100,0	100,0	●	70
300.1004	7,0	235,0	125,0	110,0	●	120
300.1016	8,0	270,0	150,0	120,0	●	160
300.1005	9,0	280,0	150,0	120,0	●	170
300.1006	10,0	300,0	175,0	125,0	●	220
300.1007	12,0	330,0	200,0	130,0	●	310
300.1008	14,0	390,0	250,0	140,0	●	360

ERGOTORQUE® WOOD screwdriver for phillips screws PH

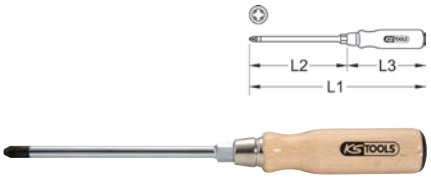
- DIN 8764
- Includes hexagon drive for a spanner or wrench
- Protective leather cap on the handle end
- Optimal power transmission
- Ergonomically formed, sealed beech wood handle
- Hardened blade
- Chrome finish with burnished tips
- Blade made of chrome vanadium



		L1 mm	L2 mm	L3 mm		
300.1011	PH 1	175,0	80,0	95,0	●	50
300.1012	PH 2	220,0	100,0	120,0	●	90
300.1013	PH 3	270,0	150,0	120,0	●	170
300.1014	PH 4	340,0	200,0	140,0	●	330

ERGOTORQUE® WOOD screwdriver for pozidriv screws PZ

- DIN 8764
- Includes hexagon drive for a spanner or wrench
- Protective leather cap on the handle end
- Optimal power transmission
- Ergonomically formed, sealed beech wood handle
- Hardened blade
- Chrome finish with burnished tips
- Blade made of chrome vanadium



		L1 mm	L2 mm	L3 mm		
300.1021	PZ 1	175,0	80,0	95,0	●	50
300.1022	PZ 2	220,0	100,0	120,0	●	90
300.1023	PZ 3	270,0	150,0	120,0	●	170
300.1024	PZ 4	340,0	200,0	140,0	●	330

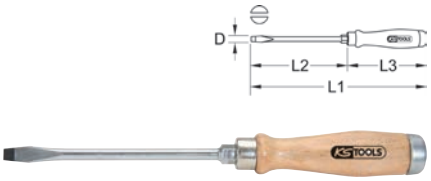
ERGOTORQUE® WOOD screwdriver set

- Includes hexagon drive for a spanner or wrench
- Protective leather cap on the handle end
- Optimal power transmission
- Ergonomically formed, sealed beech wood handle
- Hardened blade
- Chrome finish with burnished tips
- Blade made of chrome vanadium

300.1100	6 pcs	ERGOTORQUE® WOOD screwdriver set	420
4 x		3,5 - 4,5 - 5,5 - 7 mm	
2 x		PH1 - PH2	

ERGOTORQUE® WOOD*max* screwdriver for slotted screws

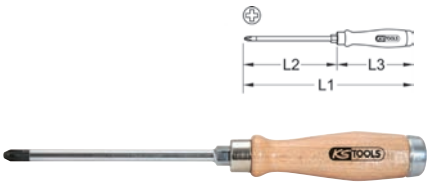
- DIN 5265
- Includes hexagon drive for a spanner or wrench
- Protective cap on the handle end
- Optimal power transmission
- Ergonomically formed, sealed beech wood handle
- Hardened blade
- Chrome finish with burnished tips
- Blade made of chrome vanadium



	D mm	L1 mm	L2 mm	L3 mm		
300.1051	3,5	175,0	75,0	100,0	●	50
300.1052	4,5	190,0	90,0	100,0	●	50
300.1053	5,5	205,0	100,0	105,0	●	70
300.1054	7,0	240,0	125,0	115,0	●	120
300.1055	8,0	275,0	150,0	125,0	●	170

ERGOTORQUE® WOOD*max* screwdriver for phillips screws PH

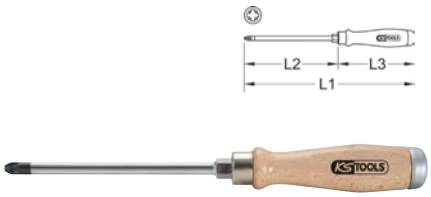
- DIN ISO 8764
- Includes hexagon drive for a spanner or wrench
- Protective cap on the handle end
- Optimal power transmission
- Ergonomically formed, sealed beech wood handle
- Hardened blade
- Chrome finish with burnished tips
- Blade made of chrome vanadium



		L1 mm	L2 mm	L3 mm		
300.1061	PH 1	180,0	80,0	100,0	●	50
300.1062	PH 2	225,0	100,0	125,0	●	90
300.1063	PH 3	275,0	150,0	125,0	●	170

ERGOTORQUE® WOOD*max* screwdriver for pozidriv screws PZ

- DIN ISO 8764
- Includes hexagon drive for a spanner or wrench
- Protective cap on the handle end
- Optimal power transmission
- Ergonomically formed, sealed beech wood handle
- Hardened blade
- Chrome finish with burnished tips
- Blade made of chrome vanadium



		L1 mm	L2 mm	L3 mm		
300.1071	PZ 1	180,0	80,0	100,0	●	50
300.1072	PZ 2	225,0	100,0	125,0	●	90
300.1073	PZ 3	275,0	150,0	125,0	●	170

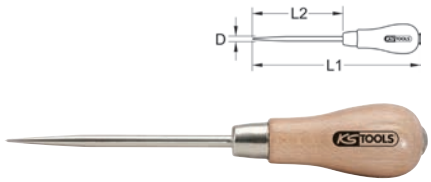
ERGOTORQUE® WOOD*max* screwdriver set

- Includes hexagon drive for a spanner or wrench
- Protective cap on the handle end
- Optimal power transmission
- Ergonomically formed, sealed beech wood handle
- Hardened blade
- Chrome finish with burnished tips
- Blade made of chrome vanadium

300.1050	6 pcs	ERGOTORQUE® WOOD*max* screwdriver set	500
4 x		3,5 - 4,5 - 5,5 - 7 mm	
2 x		PH1 - PH2	

Punches

- Impact cap on the handle end
- Sealed beech wood handle
- Mirror polished
- Highly polished
- Chrome vanadium

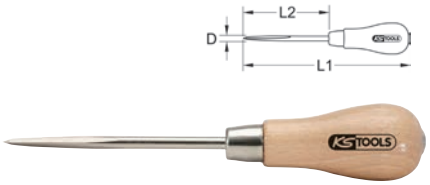


	L1 mm	L2 mm	D mm	
300.1081	190,0	100,0	6,0	70

AWLE

Awle

- Impact cap on the handle end
- Sealed beech wood handle
- Mirror polished
- Highly polished
- Chrome vanadium



	L1 mm	L2 mm	D mm	
300.1082	190,0	100,0	6,0	70

ERGOTORQUE*plus*® SCREWDRIVER

ERGOTORQUE*plus*® screwdriver for slotted screws, stubby

- DIN 5265
- Extra short blade
- Two component handle
- Optimal power transmission
- Hardened blade
- Chrome finish with burnished tips
- Blade made of chrome vanadium

	D mm	L1 mm	L2 mm	L3 mm	
159.1121	4,0	98,0	38,0	60,0	40
159.1122	5,0	98,0	38,0	60,0	40
159.1001	6,0	98,0	38,0	60,0	40
159.1123	6,5	98,0	38,0	60,0	40
159.1124	8,0	98,0	38,0	60,0	40

ERGOTORQUE*plus*® screwdriver for phillips screws PH, stubby

- DIN ISO 8764
- Extra short blade
- Two component handle
- Optimal power transmission
- Hardened blade
- Chrome finish with burnished tips
- Blade made of chrome vanadium

		L1 mm	L2 mm	L3 mm	
159.1141	PH 1	98,0	38,0	60,0	40
159.1026	PH 2	98,0	38,0	60,0	40
159.1142	PH 3	98,0	38,0	60,0	40

ERGOTORQUE*plus*® screwdriver for pozidriv screws PZ, stubby

- DIN ISO 8764
- Extra short blade
- Two component handle
- Optimal power transmission
- Hardened blade
- Chrome finish with burnished tips
- Blade made of chrome vanadium

		L1 mm	L2 mm	L3 mm	
159.1143	PZ 1	98,0	38,0	60,0	40
159.1046	PZ 2	98,0	38,0	60,0	40
159.1144	PZ 3	98,0	38,0	60,0	40

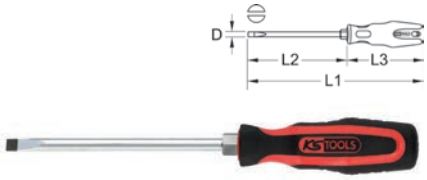
ERGOTORQUE*plus*® screwdriver for Torx screws, short

- Extra short blade
- Two component handle
- Optimal power transmission
- Hardened blade
- Chrome finish with burnished tips
- Blade made of chrome vanadium

		L1 mm	L2 mm	L3 mm	
159.1145	T20	98,0	38,0	60,0	47
159.1146	T25	98,0	38,0	60,0	47
159.1147	T27	98,0	38,0	60,0	47
159.1148	T30	98,0	38,0	60,0	47

ERGOTORQUE*plus*® screwdriver for slotted screws

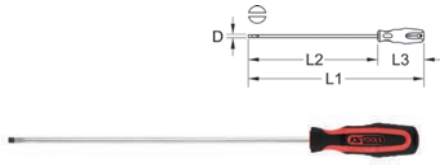
- DIN 5265
- Two component handle
- Hexagon drive
- Optimal power transmission
- Hardened blade
- Chrome finish with burnished tips
- Blade made of chrome vanadium



	D mm	L1 mm	L2 mm	L3 mm		
159.1002	3,0	155,0	75,0	80,0		40
159.1112	3,5	180,0	100,0	80,0		40
159.1003	4,0	155,0	75,0	80,0		40
159.1004	4,0	180,0	100,0	80,0		50
159.1114	4,0	305,0	200,0	105,0		180
159.1113	4,5	180,0	100,0	80,0		50
159.1115	5,5	180,0	75,0	105,0		40
159.1005	5,5	205,0	100,0	105,0		50
159.1006	5,5	230,0	125,0	105,0		50
159.1007	5,5	255,0	150,0	105,0		60
159.1008	6,5	230,0	125,0	105,0	●	60
159.1009	6,5	255,0	150,0	105,0	●	90
159.1010	8,0	265,0	150,0	115,0	●	130
159.1011	8,0	315,0	200,0	115,0	●	150
159.1012	10,0	315,0	200,0	115,0	●	180
159.1013	10,0	365,0	250,0	115,0	●	190

ERGOTORQUE*plus*® screwdriver for slotted screws, extra long

- DIN 5265
- Two component handle
- Optimal power transmission
- Hardened blade
- Chrome finish with burnished tips
- Blade made of chrome vanadium



	D mm	L1 mm	L2 mm	L3 mm	
159.1107	5,5	405,0	300,0	105,0	100
159.1151	8,0	405,0	300,0	105,0	100

6 in 1 ERGOTORQUE*plus*® screwdriver

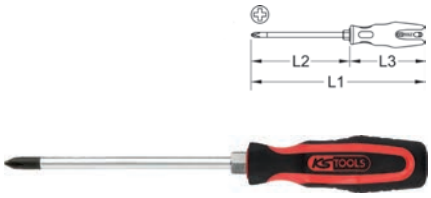
- DIN ISO 8764
- Two component handle
- Hexagon drive
- Optimal power transmission
- Hardened blade
- Chrome finish with burnished tips
- Blade made of chrome vanadium

Universal use for Phillips screws PH1, PH2 and PH3 as well as for PZ1, PZ2 and PZ3.

	L1 mm	L2 mm	L3 mm		
159.1100	230,0	125,0	105,0	●	30

ERGOTORQUE*plus*® screwdriver for phillips screws PH

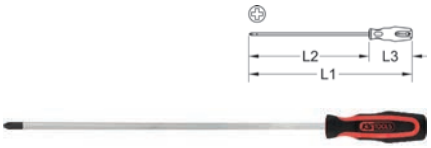
- DIN ISO 8764
- Two component handle
- Hexagon drive
- Optimal power transmission
- Hardened blade
- Chrome finish with burnished tips
- Blade made of chrome vanadium



		L1 mm	L2 mm	L3 mm		
159.1027	PH 0	155,0	75,0	80,0		30
159.1020	PH 1	180,0	75,0	105,0		40
159.1029	PH 1	205,0	100,0	105,0		70
159.1154	PH 1	255,0	150,0	105,0		90
159.1153	PH 1	305,0	200,0	105,0		110
159.1021	PH 2	205,0	100,0	105,0	●	70
159.1022	PH 2	230,0	125,0	105,0	●	80
159.1023	PH 2	255,0	150,0	105,0	●	90
159.1028	PH 2	305,0	200,0	105,0	●	110
159.1024	PH 3	265,0	150,0	115,0	●	130
159.1025	PH 3	315,0	200,0	115,0	●	150
159.1118	PH 4	310,0	200,0	110,0	●	250

ERGOTORQUE*plus*® screwdriver for phillips screws PH, extra long

- DIN ISO 8764
- Two component handle
- Optimal power transmission
- Hardened blade
- Chrome finish with burnished tips
- Blade made of chrome vanadium



		L1 mm	L2 mm	L3 mm	g
159.1152	PH 1	405,0	300,0	105,0	90
159.1128	PH 2	405,0	300,0	105,0	100

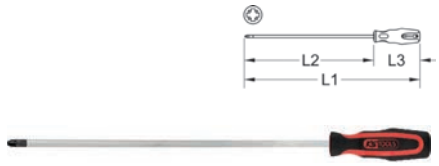
ERGOTORQUE*plus*® screwdriver for pozidriv screws PZ

- DIN ISO 8764
- Two component handle
- Hexagon drive
- Optimal power transmission
- Hardened blade
- Chrome finish with burnished tips
- Blade made of chrome vanadium

		L1 mm	L2 mm	L3 mm		g
159.1047	PZ 0	155,0	75,0	80,0		30
159.1040	PZ 1	180,0	75,0	105,0		30
159.1049	PZ 1	205,0	100,0	105,0		30
159.1041	PZ 2	205,0	100,0	105,0	●	30
159.1042	PZ 2	230,0	125,0	105,0	●	60
159.1043	PZ 2	255,0	150,0	105,0	●	60
159.1044	PZ 3	265,0	150,0	115,0	●	130
159.1048	PZ 2	305,0	200,0	105,0	●	110
159.1045	PZ 3	315,0	200,0	115,0	●	150
159.1119	PZ 4	310,0	200,0	110,0	●	250

ERGOTORQUE*plus*® screwdriver for pozidriv screws PZ, extra long

- DIN ISO 8764
- Two component handle
- Optimal power transmission
- Hardened blade
- Chrome finish with burnished tips
- Blade made of chrome vanadium



		L1 mm	L2 mm	L3 mm	g
159.1155	PZ 0	405,0	300,0	105,0	85
159.1156	PZ 1	405,0	300,0	105,0	90
159.1157	PZ 2	405,0	300,0	105,0	100
159.1158	PZ 3	405,0	300,0	105,0	220
159.1159	PZ 4	405,0	300,0	105,0	375

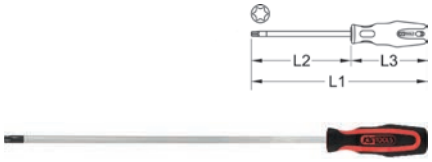
ERGOTORQUE*plus*® screwdriver for Torx screws

- Two component handle
- Optimal power transmission
- Hardened blade
- Chrome finish with burnished tips
- Blade made of chrome vanadium

		L1 mm	L2 mm	L3 mm	g
159.1131	T3	205,0	100,0	105,0	50
159.1132	T4	205,0	100,0	105,0	50
159.1133	T5	205,0	100,0	105,0	50
159.1134	T6	205,0	100,0	105,0	50
159.1135	T7	205,0	100,0	105,0	50
159.1030	T8	205,0	100,0	105,0	50
159.1031	T9	205,0	100,0	105,0	50
159.1032	T10	205,0	100,0	105,0	50
159.1033	T15	205,0	100,0	105,0	50
159.1034	T20	205,0	100,0	105,0	50
159.1035	T25	205,0	100,0	105,0	60
159.1036	T27	205,0	100,0	105,0	60
159.1037	T30	205,0	100,0	105,0	60
159.1038	T40	205,0	100,0	105,0	80
159.1136	T45	255,0	150,0	105,0	130

ERGOTORQUE*plus*® screwdriver for Torx screws, long

- Two component handle
- Optimal power transmission
- Hardened blade
- Chrome finish with burnished tips
- Blade made of chrome vanadium



		L1 mm	L2 mm	L3 mm	g
159.1261	T20	405,0	300,0	105,0	100
159.1262	T25	405,0	300,0	105,0	100
159.1263	T27	405,0	300,0	105,0	100
159.1264	T30	405,0	300,0	105,0	100

ERGOTORQUE*plus*Screwdriver for Torx screws with ball head

- Two component handle
- Hexagon drive
- Optimal power transmission
- Hardened blade
- Chrome finish with burnished tips
- Blade made of chrome vanadium

		L1 mm	L2 mm	L3 mm	g
159.1235	T9	205,0	100,0	105,0	50
159.1236	T10	205,0	100,0	105,0	50
159.1237	T15	205,0	100,0	105,0	50
159.1238	T20	205,0	100,0	105,0	50
159.1239	T25	205,0	100,0	105,0	60
159.1241	T27	205,0	100,0	105,0	60
159.1242	T30	205,0	100,0	105,0	60

ERGOTORQUE*plus*Screwdriver for Torx Plus screws

- Two component handle
- Optimal power transmission
- Hardened blade
- Chrome finish with burnished tips
- Blade made of chrome vanadium

		L1 mm	L2 mm	L3 mm	g
159.1243	IP5	205,5	100,0	105,0	50
159.1244	IP6	205,5	100,0	105,0	50
159.1245	IP7	205,5	100,0	105,0	50
159.1246	IP8	205,5	100,0	105,0	50
159.1247	IP9	205,5	100,0	105,0	50
159.1248	IP10	205,5	100,0	105,0	50
159.1249	IP15	205,5	100,0	105,0	50
159.1251	IP20	205,5	100,0	105,0	50
159.1252	IP25	205,5	100,0	105,0	60
159.1253	IP30	205,5	100,0	105,0	60

ERGOTORQUE*plus*® screwdriver for Torx screws, tamperproof

- Two component handle
- Optimal power transmission
- Hardened blade
- Chrome finish with burnished tips
- Blade made of chrome vanadium

		L1 mm	L2 mm	L3 mm	g
159.1059	TB7	205,0	100,0	105,0	50
159.1050	TB8	205,0	100,0	105,0	50
159.1051	TB9	205,0	100,0	105,0	50
159.1052	TB10	205,0	100,0	105,0	50
159.1053	TB15	205,0	100,0	105,0	50
159.1054	TB20	205,0	100,0	105,0	50
159.1055	TB25	205,0	100,0	105,0	60
159.1056	TB27	205,0	100,0	105,0	60
159.1057	TB30	205,0	100,0	105,0	60
159.1058	TB40	205,0	100,0	105,0	80

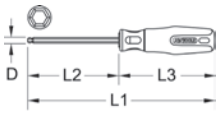
ERGOTORQUE*plus*® screwdriver for hexagon screws

- Two component handle
- Optimal power transmission
- Incorporates hexagon blade
- Hardened blade
- Chrome finish with burnished tips
- Blade made of chrome vanadium

	⬢ mm	L1 mm	L2 mm	L3 mm	g
159.1221	1,5	205,0	100,0	105,0	20
159.1222	2,0	205,0	100,0	105,0	20
159.1223	2,5	205,0	100,0	105,0	20
159.1224	3,0	205,0	100,0	105,0	20
159.1225	4,0	205,0	100,0	105,0	20
159.1226	5,0	205,0	100,0	105,0	60
159.1227	6,0	205,0	100,0	105,0	70
159.1228	8,0	205,0	100,0	105,0	130

ERGOTORQUE*plus*® screwdriver for hexagon screws with ball end

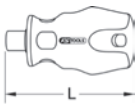
- Two component handle
- Optimal power transmission
- Incorporates hexagon blade
- Hardened blade
- Chrome finish with burnished tips
- Blade made of chrome vanadium



	D mm	L1 mm	L2 mm	L3 mm	
159.1066	1,5	155,0	75,0	80,0	20
159.1067	2,0	205,0	100,0	105,0	20
159.1060	2,5	180,0	100,0	80,0	20
159.1061	3,0	180,0	100,0	80,0	20
159.1062	4,0	180,0	100,0	80,0	20
159.1063	5,0	205,0	100,0	105,0	60
159.1064	6,0	205,0	100,0	105,0	70
159.1065	8,0	205,0	100,0	105,0	130
159.1068	10,0	255,0	150,0	105,0	195
159.1069	12,0	255,0	150,0	105,0	230

ERGOTORQUE*plus*® bit screwdriver

- Two component handle
- Extra short execution
- Magnetic
- Optimal power transmission
- 1/4" hexagonal holder for bits

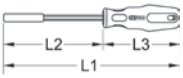


1/4"

		L mm	
159.1190	1/4"	63,0	30

ERGOTORQUE*plus*® bit screwdriver

- For bits to DIN 3126 / C 6,3
- Two component handle
- Optimal power transmission
- Magnetic
- Blade made of chrome vanadium

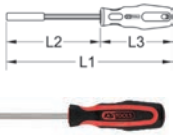


1/4"

		L1 mm	L2 mm	L3 mm	
159.2198	1/4"	250,0	150,0	100,0	100

ERGOTORQUE*plus*® bit screwdriver

- Two component handle
- Optimal power transmission
- Magnetic
- For bits to DIN 3126 / C 6,3
- Blade made of chrome vanadium

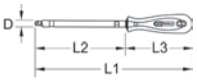


1/4"

		L1 mm	L2 mm	L3 mm	
159.1199	1/4"	550,0	450,0	100,0	175

ERGOTORQUE*plus*® socket screwdriver

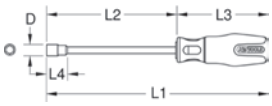
- Two component handle
- 6 point
- Flexible
- Limited torque
- Double spiral shaft
- Plastic protective coating
- Chrome vanadium



	mm	D mm	L1 mm	L2 mm	L3 mm	L4 mm	
159.1126	6,0	10,8	259,0	150,0	109,0	9,3	155
159.1127	7,0	11,7	259,0	150,0	109,0	10,0	155
159.2128	8,0	11,9	259,0	150,0	109,0	10,0	155
159.1125	10,0	12,5	279,0	170,0	109,0	14,3	170

ERGOTORQUE*plus*® socket screwdriver

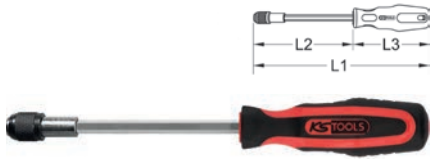
- Two component handle
- 6 point
- Matt finish
- Chrome vanadium



	mm	D mm	L1 mm	L2 mm	L3 mm	L4 mm	
159.1265	3	6,6	150,0	150,0	105,0	4,3	60
159.1201	4	6,6	255,0	150,0	105,0	4,3	60
159.1266	4,5	7,6	150,0	150,0	105,0	4,4	70
159.1202	5	7,6	255,0	150,0	105,0	4,4	70
159.1203	5,5	8,2	255,0	150,0	105,0	4,8	80
159.1204	6	8,8	255,0	150,0	105,0	5,5	80
159.1205	7	10,0	255,0	150,0	105,0	6,8	110
159.1206	8	11,2	264,0	150,0	114,0	7,0	110
159.1207	9	13,9	264,0	150,0	114,0	9,3	110
159.1208	10	15,0	264,0	150,0	114,0	9,9	120
159.1209	11	16,5	264,0	150,0	114,0	10,3	130
159.1210	12	17,6	264,0	150,0	114,0	11,2	180
159.1211	13	17,6	264,0	150,0	114,0	11,6	180
159.1212	14	18,9	264,0	150,0	114,0	13,0	180

ERGOTORQUE*plus*® quick change bit screwdriver

- For bits to DIN 3126 / C 6,3
- Two component handle
- Locking and fast change device
- Optimal power transmission
- Magnetic
- Blade made of chrome vanadium



1/4"

		L1 mm	L2 mm	L3 mm	
159.2145	1/4"	200,0	100,0	100,0	100

ERGOTORQUE*plus*® Soldering tip 4.5mm, diagonal

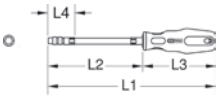
- For bits to DIN 3126
- Two component handle
- Includes clamping ring
- Optimal power transmission

1/4"

		L mm	
159.1170	1/4"	110,0	50

ERGOTORQUE*plus*® bit screwdriver

- Two component handle
- Flexible
- Limited torque
- Double spiral shaft
- Plastic protective coating
- 1/4" hexagonal holder for bits

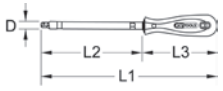


1/4"

		L1 mm	L2 mm	L3 mm	L4 mm	
159.1129	1/4"	200,0	150,0	50,0	8,0	200

ERGOTORQUE*plus*® Square screwdriver

- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Two component handle
- Flexible blade with double spiral shaft
- Limited torque
- Plastic protective coating

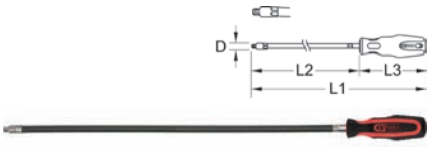


1/4"

		D mm	L1 mm	L2 mm	L3 mm	
159.1120	1/4"	15,0	200,0	150,0	50,0	150

ERGOTORQUE*plus*® square screwdriver, extra long

- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Two component handle
- Flexible blade with double spiral shaft
- Limited torque
- Plastic protective coating

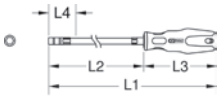


1/4"

	■	D mm	L1 mm	L2 mm	L3 mm	g
911.1171	1/4"	12,0	614,0	500,0	114,0	280

ERGOTORQUE*plus*® bit screwdriver, extra long

- For bits to DIN 3126 / C 6,3
- Two component handle
- Flexible blade with double spiral shaft
- Limited torque
- Plastic protective coating

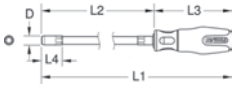


1/4"

	○	L1 mm	L2 mm	L3 mm	L4 mm	g
911.1172	1/4"	614,0	500,0	114,0	43,0	280

ERGOTORQUE*plus*® socket screwdriver, extra long

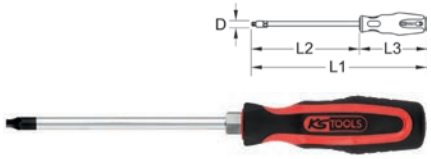
- Two component handle
- 6 point
- Flexible
- Ideal for deep seated screw-hose clamps
- Limited torque
- Double spiral shaft
- Plastic protective coating
- Chrome vanadium



	⬢ mm	D mm	L1 mm	L2 mm	L3 mm	L4 mm	g
911.1175	5	11,9	614,0	500,0	114,0	8,9	270
911.1176	6	10,9	614,0	500,0	114,0	11,3	280
911.1177	7	11,7	614,0	500,0	114,0	11,3	280
911.1178	8	11,7	614,0	500,0	114,0	11,3	280

ERGOTORQUE*plus*Screwdriver for square socket screws

- for square socket head screws to DIN 7504
- Two component handle
- Hexagon drive
- Optimal power transmission
- Hardened blade
- Chrome finish with burnished tips
- Blade made of chrome vanadium



	D	L1 mm	L2 mm	L3 mm	g
159.1193	#01	98,0	38,0	60,0	47
159.1194	#02	98,0	38,0	60,0	47
159.1183	#00	155,0	75,0	80,0	84
159.1184	#0	155,0	75,0	80,0	84
159.1185	#1	155,0	75,0	80,0	84
159.1186	#1	205,0	100,0	105,0	107
159.1187	#2	205,0	100,0	105,0	107
159.1188	#2	315,0	200,0	115,0	135
159.1189	#2	405,0	300,0	105,0	157
159.1191	#3	255,0	150,0	105,0	119
159.1192	#4	315,0	200,0	115,0	135

ERGOTORQUE*plus*® socket screwdriver

- for triangular bolts according to DIN 22424 and triangular nuts according to DIN 22425
- Two component handle
- 3-point
- Matt finish
- Chrome vanadium

	D	L1 mm	L2 mm	L3 mm	g
159.1161	M4	255,0	150,0	105,0	122
159.1162	M5	255,0	150,0	105,0	122
159.1163	M6	255,0	150,0	105,0	122
159.1164	M8	255,0	150,0	105,0	122
159.1165	M10	255,0	150,0	105,0	160
159.1166	M12	255,0	150,0	105,0	160

ERGOTORQUE*plus*Screwdriver for TRI-WING screws

- Two component handle
- Hexagon drive
- Optimal power transmission
- Hardened blade
- Chrome finish with burnished tips
- Blade made of chrome vanadium

	D	L1 mm	L2 mm	L3 mm	g
159.1254	#0	160,0	80,0	80,0	90
159.1255	#1	160,0	80,0	80,0	90
159.1256	#2	160,0	80,0	80,0	90
159.1257	#3	160,0	80,0	80,0	90
159.1258	#4	205,0	100,0	105,0	107
159.1259	#5	205,0	100,0	105,0	107

ERGOTORQUE*plus*Screwdriver for TORQ-set® screws

- Two component handle
- Hexagon drive
- Optimal power transmission
- Hardened blade
- Chrome finish with burnished tips
- Blade made of chrome vanadium

	⬢ mm	L1 mm	L2 mm	L3 mm	g
159.1231	6,0	160,0	80,0	80,0	90
159.1232	8,0	205,0	105,0	100,0	107
159.1233	10,0	205,0	105,0	100,0	107

ERGOTORQUE*plus*® SCREWDRIVER SETS

ERGOTORQUE*plus*® bit set

- Two component handle
- Optimal power transmission
- Power screwdriver handle with fast change device
- Hardened blade
- Nickel plated
- Blade made of chrome vanadium
- In practical folding case

			g
159.2010	17 pcs	ERGOTORQUE*plus*® bit set	750
1 x		1/4"	
1 x		5,5 mm	
3 x		PH1 - PH2 - PH3	
3 x		PZ1 - PZ2 - PZ3	
4 x		3 - 4 - 5 - 6 mm	
5 x		TB10 - TB15 - TB20 - TB25 - TB30	

ERGOTORQUE*plus*® screwdriver set

- Two component handle
- Optimal power transmission
- Hardened blade
- Chrome finish with burnished tips
- Blade made of chrome vanadium

			g
159.0005	5 pcs	ERGOTORQUE*plus*® screwdriver set	270
3 x		4 - 5,5 - 6,5 mm	
2 x		PH1 - PH2	

You can find more screwdrivers in the VDE section.

ERGOTORQUE*plus*® screwdriver set

- Two component handle
- Optimal power transmission
- Hardened blade
- Chrome finish with burnished tips
- Blade made of chrome vanadium

			g
159.0010	6 pcs	ERGOTORQUE*plus*® screwdriver set	708
4 x		3 - 4 - 5,5 - 6,5 mm	
2 x		PH1 - PH2	

ERGOTORQUE*plus*® screwdriver set

- Two component handle
- Optimal power transmission
- Hardened blade
- Chrome finish with burnished tips
- Blade made of chrome vanadium

			g
159.0020	6 pcs	ERGOTORQUE*plus*® screwdriver set	580
4 x		3 - 4 - 5,5 - 6,5 mm	
2 x		PZ1 - PZ2	

ERGOTORQUE*plus*® screwdriver set

- Two component handle
- Optimal power transmission
- Hardened blade
- Chrome finish with burnished tips
- Blade made of chrome vanadium

			g
159.0030	6 pcs	ERGOTORQUE*plus*® screwdriver set	580
6 x		T10 - T15 - T20 - T25 - T30 - T40	

ERGOTORQUE*plus*® screwdriver set

- Two component handle
- Optimal power transmission
- Hardened blade
- Chrome finish with burnished tips
- Blade made of chrome vanadium

			g
159.0040	6 pcs	ERGOTORQUE*plus*® screwdriver set	580
6 x		TB10 - TB15 - TB20 - TB25 - TB30 - TB40	

ERGOTORQUE*plus*® screwdriver and bit set

- Two component handle
- Optimal power transmission
- Includes the most current 1/4" bits, bit holder and screwdriver bits
- Hardened blade
- Chrome finish with burnished tips
- Chrome vanadium
- In durable plastic storage case

			kg
159.0100	39 pcs	ERGOTORQUE*plus*® screwdriver and bit set	2,91
6 x		3 - 4 - 5,5 - 6,5 - 8 - 10 mm	
4 x		PH0 - PH1 - PH2 - PH3	
4 x		PZ0 - PZ1 - PZ2 - PZ3	
1 x		6 mm	
1 x		PH2	
1 x		100 mm	
1 x		1/4"	
7 x		2 - 2,5 - 3 - 4 - 5 - 6 - 8 mm	
7 x		T10 - T15 - T20 - T25 - T27 - T30 T40	
7 x		TB10 - TB15 - TB20 - TB25 - TB27 TB30 - TB40	

ERGOTORQUE*plus*® socket screwdriver set

- Two component handle
- 6 point
- Matt finish
- Chrome vanadium

			g
159.1200	8 pcs	ERGOTORQUE*plus*® socket screwdriver set	800
8 x		5 - 6 - 7 - 8 - 10 - 11 - 12 - 13 mm	

ERGOTORQUE*plus*® screwdriver set

- Two component handle
- Flexible blade with double spiral shaft
- Limited torque
- Plastic protective coating
- Contains also the most current 1/4" bits and sockets
- In display box

			kg
911.1180	16 pcs	ERGOTORQUE*plus*® screwdriver set	1,30
1 x		1/4"	
1 x		1/4"	
1 x		7 mm	
3 x		5 - 6 - 8 mm	
2 x		5.5 - 6.5 mm	
2 x		PH1 - PH2	
6 x		T10 - T15 - T20 - T25 - T27 - T30	

ERGOTORQUE®*max*

ERGOTORQUE®*max* T-handle ratchet

- DIN 3122 / ISO 3315
- With 1/4" square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Two component handle
- Reversible
- Exact gearing with 45-teeth
- With hanging hole
- Handy and compact
- Matt finish
- Chrome vanadium

	■	B mm	L1 mm	L2 mm	g
151.1109	1/4"	115,0	110,0	55,0	40

ERGOTORQUE®*max* hammer cap screwdriver for slotted screws, stubby

- DIN 5265
- Extra short blade
- Two component handle
- Protective cap on the handle end
- Internal square drive adaptor to DIN 3120 / ISO 1174 in the hammer cap
- Ideal for usage with T-handle screwdriver drive and standard ratchet
- Optimal power transmission
- Hardened blade
- Chrome finish with burnished tips
- Blade made of chrome vanadium

	D mm	L1 mm	L2 mm	L3 mm	g
151.1131	6,0	98,0	38,0	60,0	40

ERGOTORQUE®*max* hammer cap screwdriver for phillips screws PH, stubby

- DIN ISO 8764
- Extra short blade
- Two component handle
- Protective cap on the handle end
- Internal square drive adaptor to DIN 3120 / ISO 1174 in the hammer cap
- Ideal for usage with T-handle screwdriver drive and standard ratchet
- Optimal power transmission
- Hardened blade
- Chrome finish with burnished tips
- Blade made of chrome vanadium

		L1 mm	L2 mm	L3 mm	g
151.1201	PH 1	98,0	38,0	60,0	40
151.1107	PH 2	98,0	38,0	60,0	40

ERGOTORQUE®*max* hammer cap screwdriver for pozidriv screws PZ, stubby

- DIN ISO 8764
- Extra short blade
- Two component handle
- Protective cap on the handle end
- Internal square drive adaptor to DIN 3120 / ISO 1174 in the hammer cap
- Ideal for usage with T-handle screwdriver drive and standard ratchet
- Optimal power transmission
- Hardened blade
- Chrome finish with burnished tips
- Blade made of chrome vanadium

		L1 mm	L2 mm	L3 mm	g
151.1147	PZ 2	98,0	38,0	60,0	40

ERGOTORQUE®*max* hammer cap screwdriver for slotted screws

- DIN 5265
- Two component handle
- Hexagon drive
- Protective cap on the handle end
- Internal square drive adaptor to DIN 3120 / ISO 1174 in the hammer cap
- Ideal for usage with T-handle screwdriver drive and standard ratchet
- Optimal power transmission
- Hardened blade
- Chrome finish with burnished tips
- Blade made of chrome vanadium

	D mm	L1 mm	L2 mm	L3 mm		g
151.1123	3,5	165,0	60,0	105,0		70
151.1125	4,5	175,0	70,0	105,0		70
151.1212	4,5	205,0	125,0	80,0		125
151.1213	4,5	280,0	200,0	80,0		200
151.1128	5,5	205,0	100,0	105,0	●	150
151.1215	5,5	250,0	150,0	100,0	●	225
151.1216	5,5	350,0	250,0	100,0	●	240
151.1132	7,0	245,0	140,0	105,0	●	240
151.1133	8,0	295,0	190,0	105,0	●	240
151.1219	8,0	310,0	200,0	110,0	●	285
151.1134	10,0	295,0	190,0	105,0	●	300

ERGOTORQUE®*max* hammer cap screwdriver for phillips screws PH

- DIN ISO 8764
- Two component handle
- Hexagon drive
- Protective cap on the handle end
- Internal square drive adaptor to DIN 3120 / ISO 1174 in the hammer cap
- Ideal for usage with T-handle screwdriver drive and standard ratchet
- Optimal power transmission
- Hardened blade
- Chrome finish with burnished tips
- Blade made of chrome vanadium

		L1 mm	L2 mm	L3 mm		g
151.1101	PH 0	165,0	60,0	105,0		120
151.1102	PH 1	185,0	80,0	105,0	●	150
151.1103	PH 1	350,0	250,0	100,0	●	470
151.1104	PH 2	205,0	100,0	105,0	●	220
151.1108	PH 2	350,0	250,0	100,0	●	550
151.1105	PH 3	255,0	150,0	105,0	●	250
151.1106	PH 4	305,0	200,0	105,0	●	280

ERGOTORQUE®*max* hammer cap screwdriver for pozidriv screws PZ

- DIN ISO 8764
- Two component handle
- Hexagon drive
- Protective cap on the handle end
- Internal square drive adaptor to DIN 3120 / ISO 1174 in the hammer cap
- Ideal for usage with T-handle screwdriver drive and standard ratchet
- Optimal power transmission
- Hardened blade
- Chrome finish with burnished tips
- Blade made of chrome vanadium

		L1 mm	L2 mm	L3 mm		g
151.1141	PZ 0	165,0	60,0	105,0	●	120
151.1142	PZ 1	185,0	80,0	105,0	●	150
151.1144	PZ 2	205,0	100,0	105,0	●	230
151.1145	PZ 3	255,0	150,0	105,0	●	250
151.1146	PZ 4	305,0	200,0	105,0	●	280

ERGOTORQUE®*max* SCREWDRIVER SETS

ERGOTORQUE®*max* hammer cap screwdriver set

- Two component handle
- Hexagon drive
- Protective cap on the handle end
- Internal square drive adaptor to DIN 3120 / ISO 1174 in the hammer cap
- Ideal for usage with T-handle screwdriver drive and standard ratchet
- Optimal power transmission
- Hardened blade
- Chrome finish with burnished tips
- Blade made of chrome vanadium

			kg
151.1160	6 pcs	ERGOTORQUE®*max* hammer cap screwdriver set	1,33
3 x			5,5 - 7 - 8 mm
3 x			PH1 - PH2 - PH3

ERGOTORQUE®*max* hammer cap screwdriver set

- Two component handle
- Hexagon drive
- Protective cap on the handle end
- Internal square drive adaptor to DIN 3120 / ISO 1174 in the hammer cap
- Ideal for usage with T-handle screwdriver drive and standard ratchet
- Optimal power transmission
- Hardened blade
- Chrome finish with burnished tips
- Blade made of chrome vanadium

			kg
151.1165	6 pcs	ERGOTORQUE®*max* hammer cap screwdriver set	1,13
3 x			5,5 - 7 - 8 mm
3 x			PZ1 - PZ2 - PZ3

ERGOTORQUE®*max* hammer cap screwdriver set

- Two component handle
- Hexagon drive
- Includes T-handle ratchet
- Protective cap on the handle end
- Internal square drive adaptor to DIN 3120 / ISO 1174 in the hammer cap
- Ideal for usage with T-handle screwdriver drive and standard ratchet
- Optimal power transmission
- Hardened blade
- Chrome finish with burnished tips
- Blade made of chrome vanadium

			kg
151.1100	7 pcs	ERGOTORQUE®*max* hammer cap screwdriver set	0,98
4 x		3,5 - 4,5 - 5,5 - 7 mm	
2 x		PH1 - PH2	
1 x		1/4“	

ERGOTORQUE®*max* hammer cap screwdriver set

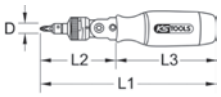
- Two component handle
- Hexagon drive
- Includes T-handle ratchet
- Protective cap on the handle end
- Optimal power transmission
- Hardened blade
- Blade made of chrome vanadium
- In durable plastic storage case
- With safety clamping protection

			kg
151.1150	13 pcs	ERGOTORQUE®*max* hammer cap screwdriver set	3,50
5 x		3,5 - 5,5- 7 - 8 - 10 mm	
5 x		PH0 - PH1 - PH2 - PH3 - PH4	
1 x		6 mm	
1 x		PH2	
1 x		1/4“	

1/4” RATCHET BIT SCREWDRIVERS

Ratchet bit screwdriver

- Robust gearing with 24 teeth
- Ratchet function
- 180° multi ajustable blade
- For bits to DIN 3126 / C 6,3
- Magnetic
- Integrated bit magazine with 13 bits
- Ergonomically designed handle

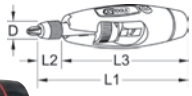


1/4"

	○	D mm	L1 mm	L2 mm	L3 mm	g
911.2470	1/4”	10,0	190,0	82,0	108,0	380

T-handle ratchet bit screwdriver

- Robust gearing with 24 teeth
- Ratchet function
- Locking and fast change device
- 45° two way revolving head
- For bits to DIN 3126 / C 6,3
- Fast change bit stop function
- Magnetic
- Integrated bit magazine with 5 bits
- Two component handle

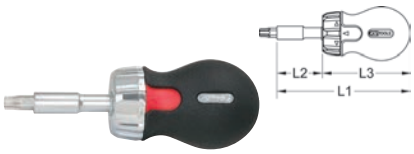


1/4"

	○	D mm	L1 mm	L2 mm	L3 mm	g
911.2475	1/4”	15,0	140,0	26,0	114,0	380

Mini ratchet screwdriver

- Ratchet function
- Exact gearing with 72 teeth
- For bits to DIN 3126 / C 6,3
- Magnetic
- Two component handle
- Blade mirror polished chrome



1/4"

	○	L1 mm	L2 mm	L3 mm	g
159.2061	1/4”	95,0	27,0	68,0	140

Revolver ratchet bit screwdriver

- Ratchet function
- Exact gearing with 72 teeth
- Handle with double function (standard and pistol handle)
- For bits to DIN 3126 / C 6,3
- Magnetic
- 40 Nm maximum torque
- Integrated bit magazine
- Two component handle
- Blade mirror polished chrome

1/4"

	○	L1 mm	L2 mm	L3 mm	g
159.2051	1/4”	260,0	130,0	130,0	450

GEAR*plus*® ratchet screwdriver set

- Ratchet function
- Exact gearing with 72 teeth
- For bits to DIN 3126 / C 6,3
- Magnetic
- 40 Nm maximum torque
- Integrated bit magazine
- Two component handle
- Mirror polished
- In durable plastic storage case

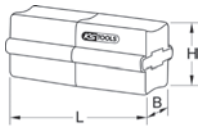
1/4"

			g
159.2050	58 pcs	GEAR*plus*® ratchet screwdriver set	1200
13 x	○	4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 mm	
10 x	○	5/32“ - 3/16“ - 7/32“ - 1/4“ - 9/32“ - 5/16“ - 11/32“ - 3/8“ - 7/16“ - 1/2“	
1 x		1/4“	
1 x		1/4“ x 1/4“	
1 x		300 mm	
1 x		250 mm	
2 x		150 - 250 mm	
3 x	⊖	4 - 5,5 - 7 mm	
3 x	⊕	PH1 - PH2 - PH3	
3 x		PZ1 - PZ2 - PZ3	
7 x		T10 - T15 - T20 - T25 - T27 - T30 - T40	
7 x		TB10 - TB15 - TB20 - TB25 - TB27 - TB30 - TB40	
6 x	●	3 - 4 - 5 - 6 - 7 - 8 mm	

MAGNETISING AND DE-MAGNETISING ATTACHMENT

Magnetizer and demagnetizer

- Easy to use
- To magnetise by pulling the blade through
- To demagnetise by pulling the blade over the recess
- For screwdrivers, tweezers and similar tools made of steel
- Plastic housing



	B mm	H mm	L mm	g
550.1126	15,0	20,0	47,0	70

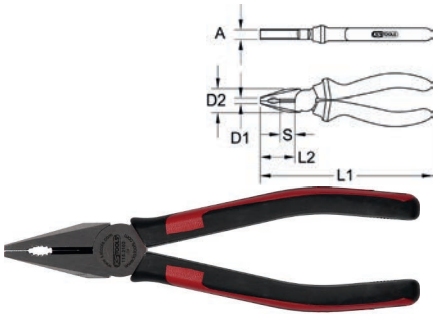
KS TOOLS®

Innovation is our mission!

COMBINATION PLIERS

SlimPOWER combination pliers

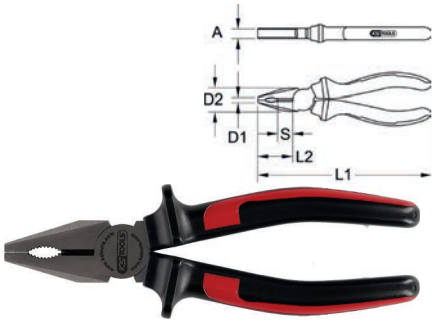
- In accordance to DIN ISO 5748
- Extra slim design
- Long cutting edge
- Suitable for wire
- Induction-hardened precision cutting
- Two component handle
- Matt chrome
- Special tool steel



	A mm	D1 mm	D2 mm	L1 mm	L2 mm	S mm	g
115.2101	10,0	6,0	24,0	160,0	35,0	15,0	195
115.2102	11,0	7,0	27,0	180,0	38,0	15,0	250
115.2103	12,0	7,0	30,0	205,0	43,0	20,0	300

ERGOTORQUE® combination pliers

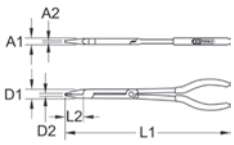
- In accordance to DIN ISO 5748
- Long cutting edge
- Suitable for wire
- Induction-hardened precision cutting
- Two component handle
- Matt chrome
- Special tool steel



	A mm	D1 mm	D2 mm	L1 mm	L2 mm	S mm	g
115.1020	11,0	7,0	24,0	160,0	35,0	15,0	300
115.1021	12,0	7,0	28,0	180,0	36,0	15,0	300
115.1022	12,0	7,0	32,0	200,0	41,0	20,0	390

Double joint combination pliers, XL

- With double joint
- Extremely narrow design
- With PVC dipped handle
- For difficult to access areas
- Matt chrome
- Special tool steel

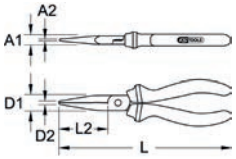


	A mm	D1 mm	D2 mm	L1 mm	L2 mm	g
500.7210	10,4	5,2	17,3	300,0	40,0	360

FLAT PLIERS

SlimPOWER flat pliers

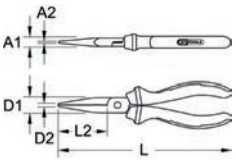
- In accordance to DIN ISO 5745
- Extra slim design
- Serrated execution
- Two component handle
- Titanium coated surface
- Special tool steel



	A1 mm	A2 mm	D1 mm	D2 mm	L1 mm	L2 mm	g
115.2221	9,0	9,0	18,0	3,0	165,0	50,0	160

ERGOTORQUE® flat pliers

- In accordance to DIN ISO 5745
- Serrated execution
- Two component handle
- Matt chrome
- Special tool steel

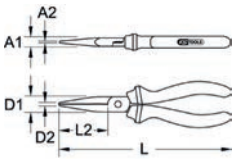


	A1 mm	A2 mm	D1 mm	D2 mm	L1 mm	L2 mm	g
115.1016	9,0	6,0	18,0	5,0	160,0	51,0	250
115.1017	13,0	8,0	20,0	7,0	200,0	65,0	260

NEEDLE NOSE PLIERS

SlimPOWER long nosed pliers

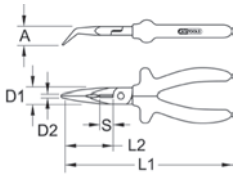
- In accordance to DIN ISO 5745
- Extra slim design
- Two component handle
- Long, straight jaws
- For soft and medium wire
- Induction-hardened precision cutting
- Matt chrome
- Special tool steel



	A1 mm	A2 mm	D1 mm	D2 mm	L1 mm	L2 mm	S mm	g
115.2201	9,0	2,0	18,0	3,0	160,0	48,0	12,0	160
115.2202	11,0	3,0	22,0	4,0	210,0	71,0	16,0	190

SlimPOWER long nosed pliers, curved

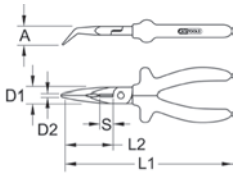
- In accordance to DIN ISO 5745
- Extra slim design
- Two component handle
- 45° curved jaws
- For soft and medium wire
- Induction-hardened precision cutting
- Matt chrome
- Special tool steel



	A mm	D1 mm	D2 mm	L1 mm	L2 mm	S mm	g
115.2113	24,7	22,0	4,0	210,0	70,0	16,0	185

ERGOTORQUE® long nosed pliers, curved

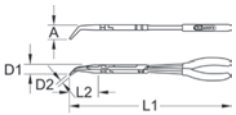
- In accordance to DIN ISO 5745
- Two component handle
- 45° curved jaws
- For soft and medium wire
- Induction-hardened precision cutting
- Matt chrome
- Special tool steel



	A mm	D1 mm	D2 mm	L1 mm	L2 mm	S mm	g
115.1018	18,0	18,0	3,0	165,0	50,0	11,0	250
115.1019	27,0	22,0	5,0	210,0	67,0	16,0	260

Double jointed long nosed pliers 45° curved, extra long

- Serrated execution
- With double joint
- Extremely narrow design
- Long nosed jaws
- 45° curved jaws
- With PVC dipped handle
- For difficult to access areas
- Matt chrome
- Special tool steel

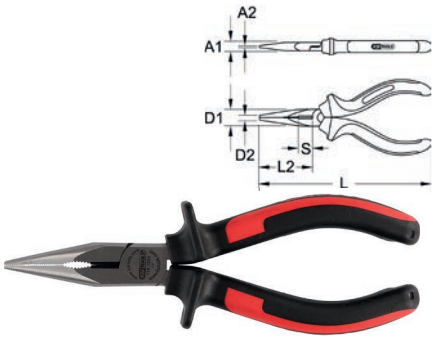


	A mm	D1 mm	D2 mm	L1 mm	L2 mm	g
500.7163	10,2	5,6	17,7	335,0	72,0	450

TELEPHONE PLIERS

ERGOTORQUE® telephone pliers

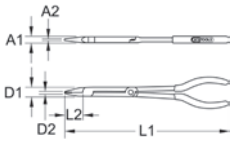
- In accordance to DIN ISO 5745
- Long nosed jaws
- Serrated execution
- Two component handle
- With intergrated cutting edge
- Matt chrome
- Special tool steel



	A1 mm	A2 mm	D1 mm	D2 mm	L1 mm	L2 mm	S mm	g
115.1023	9,0	3,0	18,0	4,0	160,0	49,0	12,0	153
115.1024	11,0	3,0	22,0	4,0	200,0	75,0	16,0	230

Double jointed flat pliers, extra long

- Serrated execution
- With double joint
- Extremely narrow design
- With PVC dipped handle
- For difficult to access areas
- Matt chrome
- Special tool steel

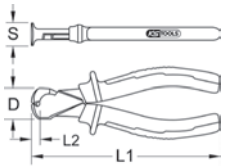


	A mm	D1 mm	D2 mm	L1 mm	L2 mm	g
500.7161	10,2	4,6	17,7	340,0	75,0	450

CUTTING PLIERS AND SIDE CUTTERS

ERGOTORQUE® cutting pliers

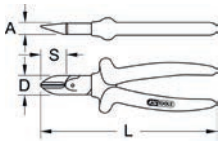
- In accordance to DIN ISO 5748
- Suitable for various types of wire
- Induction-hardened precision cutting
- Two component handle
- Matt chrome
- Special tool steel



	D mm	L1 mm	L2 mm	S mm	g
115.1015	31,0	160,0	7,0	24,0	270

SlimPOWER diagonal side cutter

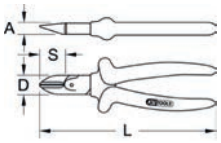
- In accordance to DIN ISO 5749
- Extra slim design
- Long cutting edge
- Suitable for various types of wire
- Induction-hardened precision cutting
- Two component handle
- Matt chrome
- Special tool steel



	A mm	D mm	L mm	S mm	g
115.2231	10,5	20,0	160,0	18,5	170
115.2232	12,0	22,0	180,0	20,0	240
115.2233	12,0	24,0	200,0	22,0	290

ERGOTORQUE® diagonal side cutter

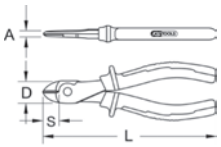
- In accordance to DIN ISO 5749
- Long cutting edge
- Suitable for various types of wire
- Induction-hardened precision cutting
- Two component handle
- Matt chrome
- Special tool steel



	A mm	D mm	L mm	S mm	g
115.1011	9,0	18,0	125,0	18,0	140
115.1012	11,0	22,0	160,0	20,0	260

ERGOTORQUE® high leverage side cutter

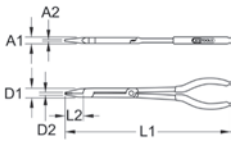
- In accordance to DIN ISO 5749
- 30° angled head
- Long cutting edge
- Suitable for various types of wire
- Induction-hardened precision cutting
- Two component handle
- Matt chrome
- Special tool steel



	A mm	D mm	L mm	S mm	g
115.1013	12,0	29,0	180,0	21,0	260

Double joint lateral cutter, XL

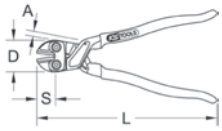
- With double joint
- Extremely narrow design
- With PVC dipped handle
- For difficult to access areas
- Matt chrome
- Special tool steel



	A mm	D1 mm	D2 mm	L1 mm	L2 mm	g
500.7201	10,2	4,8	17,7	290,0	26,0	400

Mini bolt cutter, self-releasing

- Cutting performance up to 60-63 HRC
- Cutter head made of high quality special steel
- Induction-hardened precision cutting
- Phosphate finish
- Chrome molybdenum

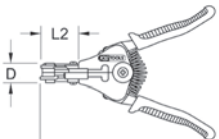


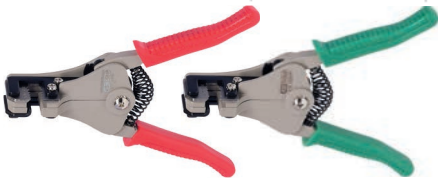
	L mm	S mm	D mm	A mm	g
118.0015	205,0	14,0	34,0	17,0	270

WIRE STRIPPER

Automatic wire stripper

- Allows for stripping of any cable length, therefore ideal for retrofitting auxiliary heating systems, gas systems and other electrical consumers
- Automatically adjusts to the respective diameters
- For the professional and damage-free stripping of electric wires, stranded conductors and cables
- For copper and aluminium wires
- Plastic handle
- Durable clamping jaw for the adherence of the wire
- With return spring
- Smooth running mechanics
- Sturdy design

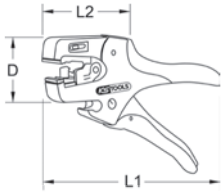




	Ø mm	AWG	D mm	L1 mm	L2 mm	g
115.1028	0,5-2,0	20-14	20,0	170,0	35,0	280
115.1029	1,0-3,2	18-8	20,0	170,0	35,0	280

Self regulating wire stripper

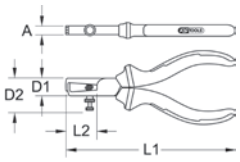
- Easily interchangeable knife modules
- Suitable for single and multi-core cable with popular standard insulation
- Exact adjustment possible for safe stripping
- For the professional and damage-free stripping of electric wires, stranded conductors and cables
- With different length stops from 3.0 – 18.0 mm
- For copper and aluminium wires
- With cutting function
- Lightweight
- Smooth running mechanics



	mm²	AWG	D mm	L1 mm	L2 mm	Replacement blades	g
115.1244	0,1-4	28-12	48,0	190,0	73,0	115.1247	130
115.1245	0,02-10	34-8	48,0	190,0	73,0	115.1246	130
115.1249	4-16	10-5	48,0	190,0	73,0	115.1248	130

ERGOTORQUE® wire stripper

- In accordance to DIN ISO 5232
- Locking jaw opening
- Adjusting screw and spring
- Two component handle
- For wires from 0,5 - 4.0 mm²
- Matt chrome
- Special tool steel



	A mm	D1 mm	D2 mm	L1 mm	L2 mm	g
115.1014	9,0	20,5	33,0	179,0	39,0	300

UNIVERSAL PLIER SETS

ERGOTORQUE® pliers set

- Suitable for various types of wire
- Induction-hardened precision cutting
- Two component handle
- Matt chrome
- Special tool steel

			kg
115.1010	3 pcs	ERGOTORQUE® pliers set	0,90
1 x		160 mm	
1 x		180 mm	
1 x		200 mm	

ERGOTORQUE® pliers set

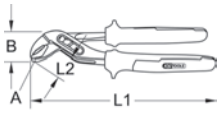
- Suitable for various types of wire
- Induction-hardened precision cutting
- Two component handle
- Matt chrome
- Special tool steel

			kg
115.1004	4 pcs	ERGOTORQUE® pliers set	1,44
1 x		160 mm	
1 x		180 mm	
1 x		200 mm	
1 x		240 mm	

WATER PUMP PLIERS

Water pump pliers

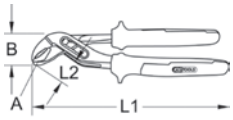
- In accordance to DIN 8976
- Toothed gripping surfaces
- Optimum power transfer
- Industrial and ground heads
- Red powder coating
- Chrome vanadium



	A mm	B mm	L1 mm	L2 mm	g
115.1000	35,0	30,0	175,0	30,0	160
115.2000	45,0	35,0	240,0	36,0	310
115.3000	55,0	40,0	300,0	42,0	620

Water pump pliers

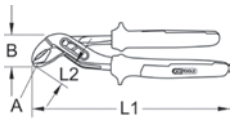
- In accordance to DIN 8976
- With PVC dipped handle
- Toothed gripping surfaces
- Optimum power transfer
- Industrial and ground heads
- Chrome vanadium



	A mm	B mm	L1 mm	L2 mm	g
115.2001	36,0	46,0	240,0	34,0	350

Water pump pliers, black

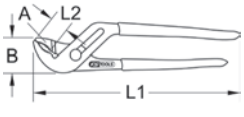
- In accordance to DIN 8976
- With PVC dipped handle
- Toothed gripping surfaces
- Optimum power transfer
- With grooved handle adjustment
- Chrome vanadium



	A mm	B mm	L1 mm	L2 mm	g
115.7000	45,0	55,0	250,0	40,0	340

Professional water pump pliers

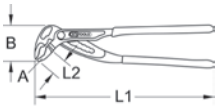
- Toothed gripping surfaces
- Optimum power transfer
- With grooved handle adjustment
- Progressive teeth
- With PVC dipped handle
- Chrome vanadium



	Industrial	A mm	B mm	L1 mm	L2 mm	g
115.1350	7	46,0	45,0	265,0	50,0	380
115.1351	7	66,0	60,0	330,0	60,0	920
115.1352	11	77,0	74,0	420,0	74,0	1150

Water pump pliers

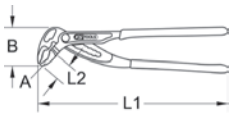
- With accurate industrial adjustment
- With safety clamping protection
- Optimum power transfer
- Asymmetric grip profile with offset teeth
- Ground heads
- With PVC dipped handle
- Chrome vanadium



	A mm	B mm	L1 mm	L2 mm	g
115.2011	35,0	38,0	175,0	20,0	160
115.2010	45,0	47,0	240,0	25,0	360
115.2012	55,0	53,0	300,0	30,0	560
115.2016	90,0	80,0	415,0	30,0	1130

Water pump pliers

- With accurate industrial adjustment
- With safety clamping protection
- Optimum power transfer
- Double sided gripping jaws
- Ground heads
- With PVC dipped handle
- Chrome vanadium



	A mm	B mm	L1 mm	L2 mm	g
115.8502	36,0	44,0	175,0	26,5	185
115.8000	51,0	54,0	250,0	33,5	340
115.8500	61,5	65,0	300,0	41,5	510

WATER PUMP PLIER SETS

Water pump pliers set

- In accordance to DIN 8976
- Toothed gripping surfaces
- Optimum power transfer
- 7 stage adjustment
- Industrial and ground heads
- Red powder coating
- Chrome vanadium

			kg
115.0000	3 pcs	175 - 240 - 300 mm	1,20

Water pump pliers set

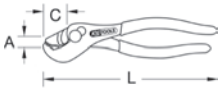
- With accurate industrial adjustment
- With safety clamping protection
- Optimum power transfer
- Double sided gripping jaws
- Ground heads
- With PVC dipped handle
- Chrome vanadium

			g
115.8501	2 pcs	250 - 300 mm	960

PIPE WRENCHES

Special pipe wrench

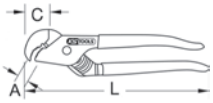
- 2-stage adjustment
- With PVC dipped handle
- Ideal for round turned pipe fittings
- Polished surface
- Chrome vanadium



	A mm	L mm	C mm	g
115.1361	0-16	178,0	23,0	180

Special pipe wrench

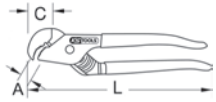
- 4 stage industrial adjustment
- With PVC dipped handle
- Optimum power transfer
- With grooved handle adjustment
- Polished surface
- Ideally suited for twisting both thrust and track rods
- Usably on axle joints and exhaust pipes
- Chrome vanadium



	A mm	L mm	g
115.1362	0-30	242,0	470

Special pipe wrench

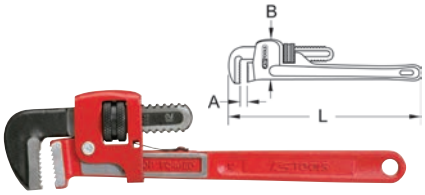
- 6 stage industrial adjustment
- With PVC dipped handle
- Optimum power transfer
- With grooved handle adjustment
- Polished surface
- Ideally suited for twisting both thrust and track rods
- Usably on axle joints and exhaust pipes
- Chrome vanadium



	A mm	L mm	C mm	kg
115.1363	0-51	345,0	41,0	1,10

One handed pipe pliers

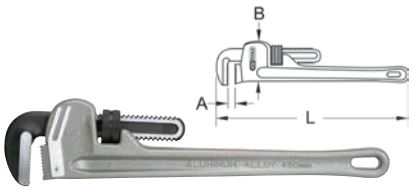
- Type "Stillson"
- Heavy execution
- Ground heads
- Infinitely variable
- Drop forged



	○	A mm	B mm	L mm	kg
114.0008	3/4"	27,0	50,0	200,0	0,25
114.0010	1"	35,0	64,0	250,0	0,60
114.0012	1.1/4"	42,0	68,0	300,0	0,70
114.0014	1.1/2"	49,0	82,0	350,0	1,10
114.0018	2"	60,0	93,0	450,0	1,75
114.0024	2.1/2"	76,0	111,0	600,0	3,50
114.0036	3.1/2"	102,0	134,0	900,0	6,25

One handed pipe pliers

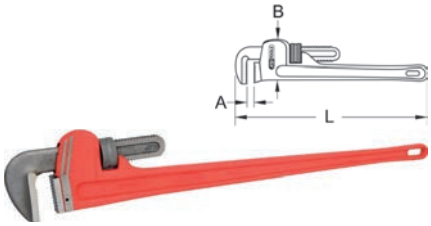
- Type "Stillson"
- Aluminium cast body
- Ground heads
- Infinitely variable
- Aluminium drop forged



	○	A mm	B mm	L mm	kg
111.3100	1.1/2"	48,0	75,0	350,0	0,88
111.3200	2"	60,0	90,0	450,0	1,46
111.3300	2.1/2"	75,0	100,0	600,0	2,44

One handed steel pipe pliers

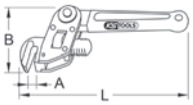
- Type “Stillson”
- Ground heads
- Infinitely variable
- Die forged head
- Handle of steel



	○	A mm	B mm	L mm	kg	
111.3500	3/4”	25,0	50,0	200,0	0,37	
111.3505	1”	30,0	60,0	250,0	0,65	
111.3510	1.1/4”	40,0	65,0	300,0	0,87	
111.3515	1.1/2”	50,0	70,0	350,0	1,27	
111.3520	2”	60,0	85,0	450,0	1,85	
111.3525	2.1/2”	76,0	95,0	600,0	3,00	
111.3530	3.1/2”	102,0	125,0	900,0	5,10	
111.3535	4”	135,0	150,0	1030,0	9,10	

Pipe wrench with adjustable head

- Type “Stillson”
- Aluminium cast body
- Stepless adjustment via milled nut
- 160° revolving handle
- Aluminium handle



	○	A mm	B mm	L mm	g	
111.3550	1.1/2”	38,1	97,0	250,0	650	

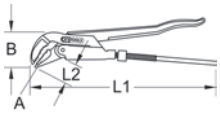
Stillson-type pipe wrench with adjustable head

- Type “Stillson”
- steplessly adjustable via quick tensioning mechanics
- Serrated execution
- With loosening lever
- upper jaw chrome-molybdenum
- lower jaw chrome vanadium
- Aluminium handle

	Clamping range mm	Length mm	g	
111.3540	8 - 31	260,0	610	

Offset pipe pliers, 45° angled

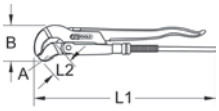
- In accordance to DIN 5234
- Swedish form
- Jaw 45° offset
- Infinitely variable
- Gear, contrary to the direction of rotation
- Red powder coating
- Chrome vanadium



	○	B mm	L1 mm	L2 mm	kg	
112.1000	1”	65,0	320,0	65,0	0,75	
112.1500	1.1/2”	70,0	430,0	75,0	1,38	
112.2000	2”	75,0	580,0	85,0	2,75	

S Jaw angled pipe pliers, offset

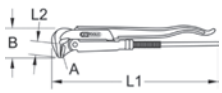
- In accordance to DIN 5234
- Jaw 45° offset
- Ground heads
- Infinitely variable
- Optimum power transfer
- Progressive teeth
- Red powder coating
- Drop forged
- Chrome vanadium



	○	B mm	L1 mm	L2 mm	kg	
113.0500	1/2”	48,0	245,0	45,0	0,48	
113.1000	1”	95,0	320,0	60,0	0,82	
113.1500	1.1/2”	73,0	420,0	73,0	1,40	
113.2000	2”	87,0	550,0	87,0	2,57	
113.3000	3”	112,0	630,0	112,0	4,30	

Offset pipe pliers, 90° angled

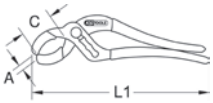
- In accordance to DIN 5234
- Swedish form
- Jaw 90° offset
- Infinitely variable
- Gear, contrary to the direction of rotation
- Red powder coating
- Chrome vanadium



	○	B mm	L1 mm	L2 mm	kg	
111.1000	1”	35,0	320,0	15,0	0,79	
111.1500	1.1/2”	31,0	430,0	41,0	1,40	
111.2000	2”	51,0	580,0	58,0	2,69	
111.3000	3”	60,0	670,0	62,0	3,45	

Siphon pliers

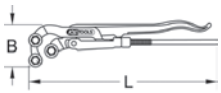
- Ideally suited to a clean and damage-free removal of the interior mirror
- With 4 adjustable steps
- Isolated mouth for non-destructive working
- For screw fittings up to max. Ø 65 mm
- With PVC dipped handle
- For loosening pipe fittings
- Interchangeable jaw protector
- For hard to reach places
- Mirror polished
- Chrome vanadium



	A mm	C mm	L mm	Replacement jaws	g	
116.1200	20,0 - 65,0	45,0	225,0	116.1201	320	

Thread roughing pliers

- For roughening of the thread after thread cutting
- Uniform roughening over the entire circumference
- Special tool steel



	Ø mm	Ø	B mm	L mm	kg	
995.6500	12,7 - 50,8	1/2” - 2”	100,0	335,0	1,77	

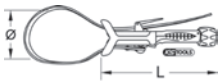
Strap pipe pliers

- Ideally suited for the installation and removal of filters and filter cartridges
- Especially suited for plastic pipes
- One hand operation
- Infinitely variable
- For hard to reach places
- Belt made of reinforced, non-slip rubber
- Glass fibre reinforced handle

	Ø mm	L mm	g	
114.0150	110,0	190,0	180	

Strap pipe pliers

- Ideally suited for the installation and removal of filters and filter cartridges
- Especially suited for plastic pipes
- One hand operation
- Infinitely variable
- For hard to reach places
- Setting the filter diameter by using the tensioning element and also by turning the knob on the end of the handle
- Belt made of reinforced, non-slip rubber
- With metal handle

	Ø mm	L mm	kg
114.0160	160,0	250,0	1,00

Strap wrench

- Ideally suited for the removal of filters and filter cartridges
- Especially suited for plastic pipes
- One hand operation
- Infinitely variable
- For hard to reach places
- non-slip, rubber-coated cotton fabric tape
- With metal handle
- Chrome plated
- Chrome vanadium


	▭ mm	Ø mm	Ø	L mm	Replacement band	g
114.0170	20,0	140,0	9/64"	220,0	114.0170-1	323
114.0171	25,0	200,0	13/64"	280,0	114.0171-1	590

Chain pipe wrench

- Function is similar to a ratchet
- For hard to reach places
- Hardened teeth
- Drop forged
- Chrome vanadium

	Ø mm	L mm	kg
114.0040	110,0	390,0	1,36

PIPE WRENCH SETS

Angled pipe pliers set

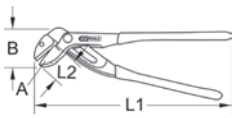
- In accordance to DIN 5234
- Jaw 45° offset
- Ground heads
- Infinitely variable
- Optimum power transfer
- Progressive teeth
- Red powder coating
- Drop forged
- Chrome vanadium

			kg
113.2100	3 pcs	1" - 1.1/2" - 2"	4,79

FITTERS PLIERS

Fitters pliers

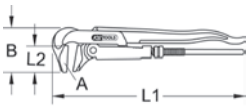
- With accurate industrial adjustment
- With safety clamping protection
- With setting scale
- Smooth, polished head area
- Optimum power transfer
- Ground heads
- With PVC dipped handle
- Chrome vanadium



	A mm	B mm	L1 mm	L2 mm	g
115.8510	50,0	50,0	250,0	60,0	350

Fitters plier

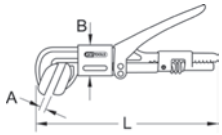
- 90° Jaw position
- Interchangeable jaw protector
- for screw connections up to max. Ø 35 mm
- Smooth, parallel adjustment jaws
- For mild assembly
- Infinitely variable
- Red powder coating
- Chrome vanadium



	A mm	B mm	L1 mm	L2 mm	Replacement jaws	g
116.1000	25,4	81,0	315,0	54,0	116.1001	790

Fitters wrench

- Interchangeable jaw protector
- For screw fittings up to max. Ø 60 mm
- Smooth, parallel adjustment jaws
- For mild assembly
- Infinitely variable
- Matt chrome
- Chrome vanadium

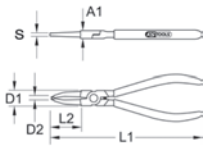


	A mm	B mm	L mm	Replacement jaws	g
116.1002	60,0	47,0	265,0	116.1003	550

CIRCLIP PLIERS FOR INTERNAL CIRCLIPS

Circlip pliers for internal circlips

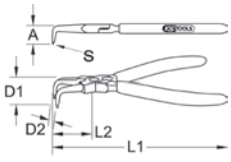
- In accordance to DIN 5256
- Durable, rolled precision tips
- Self opening
- With PVC dipped handle
- Chrome vanadium



		Ø mm	A1 mm	S mm	D1 mm	D2 mm	L1 mm	L2 mm	g
500.1034	J1	12-25	8,0	1,0	17,0	2,0	130,0	29,0	120
500.1035	J2	19-60	10,0	1,7	18,0	2,0	160,0	40,0	150
500.1036	J3	40-100	11,0	2,2	22,0	2,0	230,0	44,0	200

Circlip pliers for internal circlips, angled

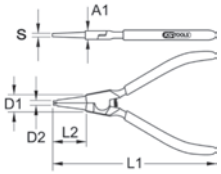
- In accordance to DIN 5256
- Durable, rolled precision tips
- 90° angled tips
- Self opening
- With PVC dipped handle
- Chrome vanadium



		Ø mm	A mm	S mm	D1 mm	D2 mm	L1 mm	L2 mm	g
500.1031	J11	12-25	11,0	1,0	15,0	2,0	130,0	21,0	120
500.1032	J21	19-60	19,0	1,7	17,0	2,0	160,0	23,0	150
500.1033	J31	40-100	25,0	2,2	23,0	2,0	230,0	30,0	200

Circlip pliers for internal circlips

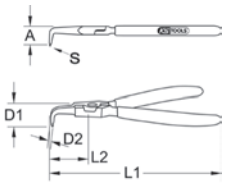
- In accordance to DIN 5256
- Slip inhibiting machined precision tips
- Durable, straight version
- With rubber grip
- Power version
- Die forged
- Chrome vanadium



		Ø mm	A1 mm	S mm	D1 mm	D2 mm	L1 mm	L2 mm	g	
119.2053	J1	12-25	7,5	1,2	15,0	2,7	135,0	30,0	80	
119.2058	J2	19-60	9,5	1,6	18,0	5,0	180,0	40,0	150	
119.2063	J3	40-100	10,0	2,5	20,0	6,0	230,0	50,0	250	

Circlip pliers for internal circlips, angled

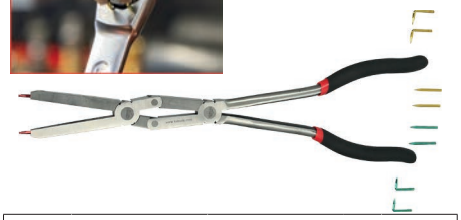
- In accordance to DIN 5256
- Slip inhibiting machined precision tips
- 90° angled tips
- With rubber grip
- Power version
- Die forged
- Chrome vanadium



		Ø mm	A mm	S mm	D1 mm	D2 mm	L1 mm	L2 mm	g	
119.2054	J11	12-25	16,5	1,0	14,5	2,5	125,0	20,0	80	
119.2059	J21	19-60	21,0	1,5	18,0	3,0	165,0	25,0	150	
119.2064	J31	40-100	25,0	2,0	20,0	5,0	210,0	35,0	250	

Double joint securing pliers for internal retaining rings with replaceable tops

- for internal retention ring Ø 12 - 25 mm
- 5 removable top pairs
- Tops with colour code
- With double joint
- Extremely narrow design
- With PVC dipped handle
- For difficult to access areas
- Matt chrome
- Chrome vanadium



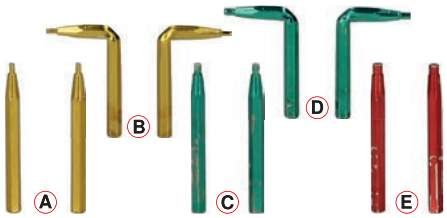
		Ø mm	g	
500.7015	11 pcs	12 - 25	400	

consists of:

		g	
500.7016	Double joint safety pliers for internal retention rings, 345 mm	390	
500.7017	Pair of tips for double joint securing pliers, 1.0 mm, straight	2	
500.7018	Pair of tips for double joint securing pliers, 1.0 mm, bent 90°	2	
500.7023	Pair of tips for double joint securing pliers, 1.3 mm, straight	2	
500.7027	Pair of tips for double joint securing pliers, 1.3 mm, bent 90°	2	
500.7029	Pair of tips for double joint securing pliers, 1.8 mm, straight	2	

Top couple for double joint securing pliers

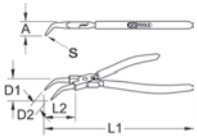
- Interchangeable tips
- suitable for external and internal retention ring double joint pliers 500.7016 and 500.7036
- Tops with colour code
- anodised



		Colour code	Ø mm	Form	g	
500.7017	A		1,0	straight	2	
500.7018	B		1,0	90° offset	2	
500.7023	C		1,3	straight	2	
500.7027	D		1,3	90° offset	2	
500.7029	E		1,8	straight	2	

Wheel bearing circlip pliers, angled

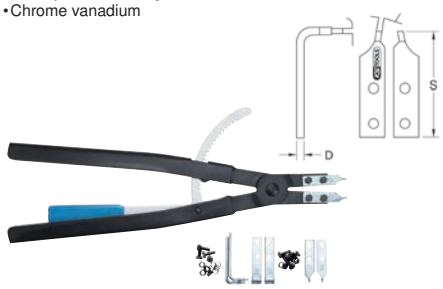
- Durable precision tips
- Slip inhibiting machined precision tips
- 45° angled version
- With PVC dipped handle
- For assembly and disassembly of wheel bearing securing rings
- Can be used on the front and rear axle
- for all common wheel bearing retaining rings
- Chrome vanadium



		Ø mm	A mm	S mm	D1 mm	D2 mm	L1 mm	L2 mm	g	
500.1038	J22	19-60	22,0	2,5	23,0	2,3	240,0	32,0	250	

Circlip pliers for internal circlips with 0° + 90° tips

- For internal circlips
- Interchangeable tips
- For circlips according to DIN 472 / DIN 984
- Black powder coating
- Chrome vanadium

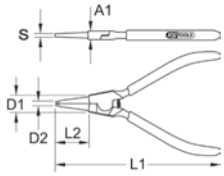


		Ø mm	D mm	S mm	L mm	g	
500.1340	J51/J5	122-300	3,5	66,0	540,0	2025	

CIRCLIP PLIERS FOR EXTERNAL CIRCLIPS

Circlip pliers for external circlips

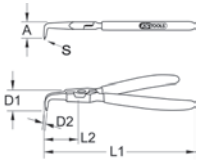
- In accordance to DIN 5254
- Durable, straight precision tips
- Self-closing
- With PVC dipped handle
- Chrome vanadium



		Ø mm	A1 mm	S mm	D1 mm	D2 mm	L1 mm	L2 mm	g	
500.1028	A1	10-25	8,0	1,0	18,0	1,0	130,0	28,0	120	
500.1029	A2	19-60	10,0	2,0	30,0	6,0	160,0	38,0	150	
500.1030	A3	40-100	11,0	3,0	33,0	6,0	230,0	44,0	200	

Circlip pliers for external circlips, angled

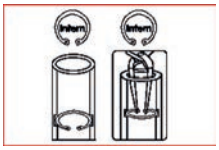
- In accordance to DIN 5254
- Durable precision tips
- 90° angled tips
- With PVC dipped handle
- Chrome vanadium

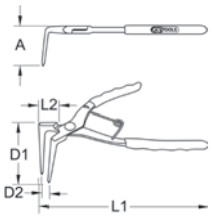


		Ø mm	A mm	S mm	D1 mm	D2 mm	L1 mm	L2 mm	g	
500.1025	A11	10-25	13,0	1,0	12,0	2,0	130,0	18,0	120	
500.1026	A21	19-60	19,0	1,7	17,0	2,0	160,0	23,0	150	
500.1027	A31	40-100	24,0	2,2	21,0	2,0	230,0	27,0	200	

Long arm circlip pliers for external circlips, angled

- Durable, extra long precision points
- 90° angled tips
- Self opening
- With PVC dipped handle
- Ideal for brake calliper and transmission work
- Chrome vanadium

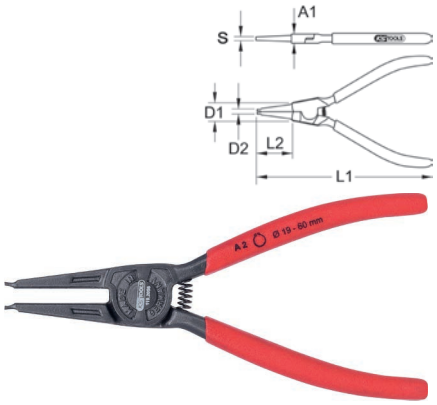




	A mm	D1 mm	D2 mm	L1 mm	L2 mm	g	
500.1037	63,0	18,0	4,0	185,0	18,0	190	

Circlip pliers for external circlips

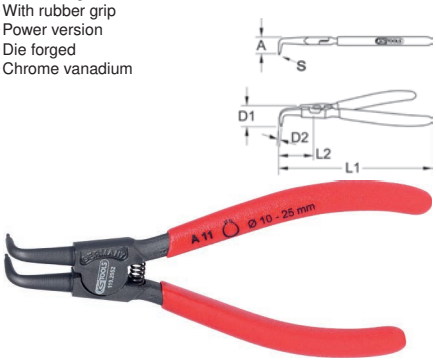
- In accordance to DIN 5254
- Slip inhibiting machined precision tips
- Durable, straight version
- Self-closing
- With rubber grip
- Power version
- Die forged
- Chrome vanadium



		Ø mm	A1 mm	S mm	D1 mm	D2 mm	L1 mm	L2 mm	g
119.2051	A1	10-25	8,0	1,0	13,5	3,5	135,0	30,0	80
119.2056	A2	19-60	9,0	1,5	15,0	4,5	175,0	40,0	150
119.2061	A3	40-100	10,0	2,5	20,0	6,0	230,0	50,0	250

Circlip pliers for external circlips, angled

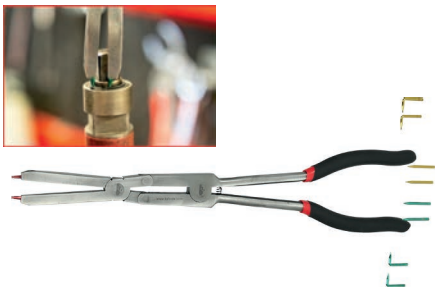
- In accordance to DIN 5254
- Slip inhibiting machined precision tips
- 90° angled version
- Self-closing
- With rubber grip
- Power version
- Die forged
- Chrome vanadium



		Ø mm	A mm	S mm	D1 mm	D2 mm	L1 mm	L2 mm	g
119.2052	A11	10-25	20,0	1,0	15,0	3,0	125,0	20,0	80
119.2057	A21	19-60	25,0	1,5	20,0	4,5	165,0	32,0	150
119.2062	A31	40-100	30,0	2,0	25,0	6,0	210,0	40,0	250

Double joint securing pliers for external retaining rings with replaceable tops

- For external retention ring Ø 8 - 25 mm
- 5 removable top pairs
- Tops with colour code
- With double joint
- Extremely narrow design
- With PVC dipped handle
- For difficult to access areas
- Matt chrome
- Chrome vanadium



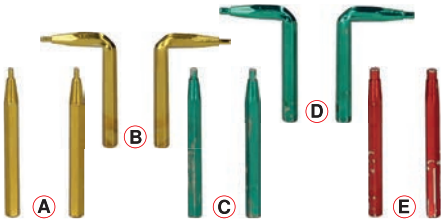
		Ø mm	g
500.7035	11 pcs	8 - 25	400

consists of:

		g
500.7036	Double joint safety pliers for external retention rings, 345 mm	390
500.7017	Pair of tips for double joint securing pliers, 1.0 mm, straight	2
500.7018	Pair of tips for double joint securing pliers, 1.0 mm, bent 90°	2
500.7023	Pair of tips for double joint securing pliers, 1.3 mm, straight	2
500.7027	Pair of tips for double joint securing pliers, 1.3 mm, bent 90°	2
500.7029	Pair of tips for double joint securing pliers, 1.8 mm, straight	2

Top couple for double joint securing pliers

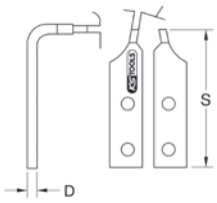
- Interchangeable tips
- suitable for external and internal retention ring double joint pliers 500.7016 and 500.7036
- Tops with colour code
- anodised



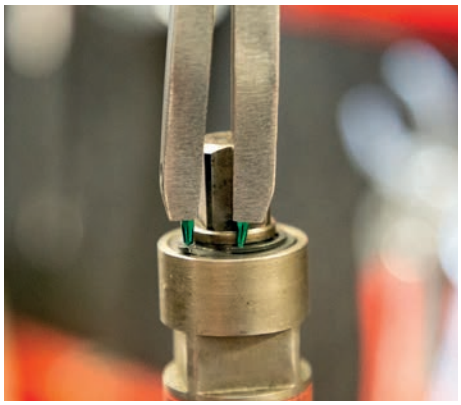
		Colour code	Ø mm	Form	g
500.7017	A		1,0	straight	2
500.7018	B		1,0	90° offset	2
500.7023	C		1,3	straight	2
500.7027	D		1,3	90° offset	2
500.7029	E		1,8	straight	2

Circlip pliers for external circlips with 0° + 90° tips

- For external security rings
- Interchangeable tips
- For circlips according to DIN 472 / DIN 984
- Black powder coating
- Chrome vanadium



		Ø mm	D mm	L mm	S mm	g
500.1345	A51/A5	122-300	3,5	540,0	66,0	2005



CIRCLIP PLIER SETS FOR CIRCLIPS

Circlip pliers set with ratchet function

- For inside and outside circlips
- With rubber grip
- Interchangeable tips
- 6 types of pliers by reversing the tips
- Includes disassembly and assembly heads
- Chrome vanadium

Internal circlips: 78,0 mm - 159,0 mm
External circlips: 89,0 mm - 159,0 mm

			kg
500.1300	14 pcs	Circlip pliers set with ratchet function	1,80

Universal circlip pliers set

- For inside and outside circlips
- Simply plier reconfigaration
- With rubber grip
- Interchangeable tips
- 16 types of pliers by reversing the tips
- Includes disassembly and assembly heads
- Chrome vanadium

			kg
500.1320	10 pcs	Universal circlip pliers set	1,80
4 x		1,0 - 1,2 - 1,8 - 2,3 mm	
4 x		1,0 - 1,2 - 1,8 - 2,3 mm	
1 x		120 mm	
1 x		120 mm	

Circlip pliers set with ratchet function

- For inside and outside circlips
- With rubber grip
- Interchangeable tips
- 8 types of pliers by reversing the tips
- Includes disassembly and assembly heads
- Chrome vanadium

Internal circlips: 60,0 mm - 100,0 mm
External circlips: 40,0 mm - 85,0 mm

			kg
500.1350	20 pcs	Circlip pliers set with ratchet function	1,80

Circlip pliers set

- For inside and outside circlips
- With rubber grip
- 90° angled tips
- Durable, straight precision tips
- All outside circlips with opening spring
- Power version
- Chrome vanadium

119.2050	4 pcs	Circlip pliers set	455

consists of:

119.2051	Circlip pliers for external circlips, 10-25 mm	80
119.2052	Circlip pliers for external circlips, angled, 12-25 mm	80
119.2053	Circlip pliers for internal circlips, 12-25 mm	80
119.2054	Circlip pliers for internal circlips, angled, 12-25 mm	80

Circlip pliers set

- For inside and outside circlips
- With rubber grip
- 90° angled tips
- Durable, straight precision tips
- All outside circlips with opening spring
- Power version
- Chrome vanadium

119.2055	4 pcs	Circlip pliers set	735

consists of:

119.2056	Circlip pliers for external circlips, 19-60 mm	150
119.2057	Circlip pliers for external circlips, angled, 19-60 mm	150
119.2058	Circlip pliers for internal circlips, 19-60 mm	150
119.2059	Circlip pliers for internal circlips, angled, 19-60 mm	150

Circlip pliers set

- For inside and outside circlips
- With rubber grip
- 90° angled tips
- Durable, straight precision tips
- All outside circlips with opening spring
- Power version
- Chrome vanadium

119.2060	4 pcs	Circlip pliers set	1000

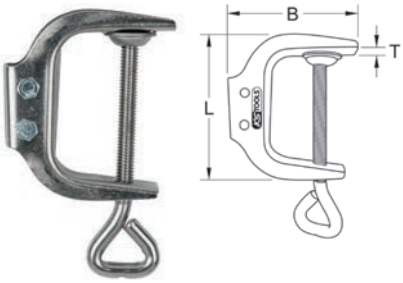
consists of:

119.2061	Circlip pliers for external circlips, 40-100 mm	250
119.2062	Circlip pliers for external circlips, angled, 40-100 mm	250
119.2063	Circlip pliers for internal circlips, 40-100 mm	250
119.2064	Circlip pliers for internal circlips, angled, 40-100 mm	250

LOCKING PLIERS

Locking pliers holder

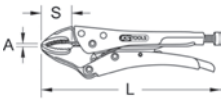
- Alternative for a vice
- For light work
- For screwing onto workbenches, worktables etc.



	L mm	B mm	T mm	
115.2072	91,0	84,0	24,3	300

Locking pliers

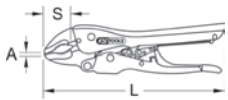
- Forged gripping jaws
- Serrated execution
- Size adjustment using the adjustment wheel
- With loosening lever
- With easy locking action
- For round and flat material
- To hold when welding
- No flaring under the strongest loads
- Loosening under continuous pressure of a national
- Nickel plated
- Chrome molybdenum



	A mm	L mm	S mm	
115.1031	0-50	140,0	19,3	180
115.1032	0-55	175,0	24,0	340
115.1033	0-60	220,0	27,5	520

Power locking pliers

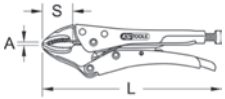
- Forged gripping jaws
- Prevents slipping even at high forces
- Well thought through jaw teeth
- Size adjustment using the adjustment wheel
- With loosening lever
- With easy locking action
- For round and flat material
- To hold when welding
- No flaring under the strongest loads
- Loosening under continuous pressure of a national
- Nickel plated
- Chrome molybdenum



	A mm	L mm	S mm	
115.1196	0-40	175,0	30,0	400
115.1197	0-50	220,0	37,0	600

Locking pliers with quick-release lever

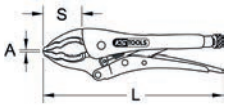
- Forged gripping jaws
- Serrated execution
- Size adjustment using the adjustment wheel
- With easy locking action
- For round and flat material
- To hold when welding
- Quick-release lever
- No flaring under the strongest loads
- Loosening under continuous pressure of a national
- Nickel plated
- Chrome molybdenum
- Two component handle

	A mm	L mm	S mm	g
115.2031	0-30	125,0	21,0	300
115.2032	0-40	175,0	27,0	390
115.2033	0-55	225,0	30,0	600

Wide jaw locking pliers

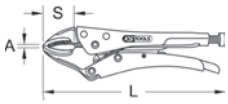
- Forged gripping jaws
- Serrated execution
- Size adjustment using the adjustment wheel
- With loosening lever
- With easy locking action
- For round and flat material
- To hold when welding
- No flaring under the strongest loads
- Loosening under continuous pressure of a national
- Nickel plated
- Chrome molybdenum

	A mm	L mm	S mm	g
115.1506	0-64	235,0	50,0	600

Wide jaw locking pliers with quick-release lever

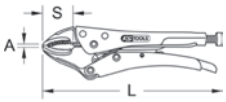
- Forged gripping jaws
- Serrated execution
- Size adjustment using the adjustment wheel
- With easy locking action
- For round and flat material
- To hold when welding
- Quick-release lever
- No flaring under the strongest loads
- Loosening under continuous pressure of a national
- Nickel plated
- Chrome molybdenum
- Two component handle

	A mm	L mm	S mm	g
115.2006	0-65	230,0	51,0	620

Locking pliers, straight jaws

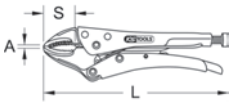
- Forged gripping jaws
- Serrated execution
- Size adjustment using the adjustment wheel
- With loosening lever
- With easy locking action
- For round and flat material
- To hold when welding
- No flaring under the strongest loads
- Loosening under continuous pressure of a national

	A mm	L mm	S mm	g
115.1501	0-28,5	175,0	27,0	370
115.1502	0-45,5	225,0	30,0	600

Locking pliers with quick-release lever, straight jaws

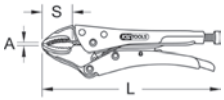
- Forged gripping jaws
- Serrated execution
- Size adjustment using the adjustment wheel
- With easy locking action
- For round and flat material
- To hold when welding
- Quick-release lever
- No flaring under the strongest loads
- Loosening under continuous pressure of a national
- Nickel plated
- Chrome molybdenum
- Two component handle

	A mm	L mm	S mm	g
115.3011	0-40	175,0	25,0	400
115.3012	0-50	250,0	30,0	600

Locking pliers, V jaws

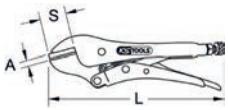
- Forged gripping jaws
- Serrated execution
- Size adjustment using the adjustment wheel
- With loosening lever
- With easy locking action
- For round and flat material
- To hold when welding
- No flaring under the strongest loads
- Loosening under continuous pressure of a national
- Nickel plated
- Chrome molybdenum

	A mm	L mm	S mm	g
115.1151	0-25	185,0	24,0	400
115.1152	0-32	225,0	27,5	600

Clamping pliers for pipes

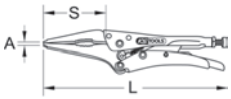
- Forged gripping jaws
- Size adjustment using the adjustment wheel
- With loosening lever
- With easy locking action
- With hexagonal nut for safe fastening
- For clamping pipes
- No flaring under the strongest loads
- Loosening under continuous pressure of a national
- Nickel plated
- Chrome molybdenum

	A mm	L mm	S mm	g
115.1504	0-30,5	175,0	29,5	360

Clamping pliers for pipes

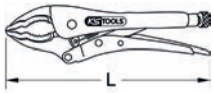
- Forged gripping jaws
- Serrated execution
- Size adjustment using the adjustment wheel
- With loosening lever
- With easy locking action
- For clamping pipes
- No flaring under the strongest loads
- Loosening under continuous pressure of a national
- Nickel plated
- Chrome molybdenum

	A mm	L mm	S mm	g
115.1505	0-86	255,0	118,0	500

Round jaw locking pliers with wire cutter

- For safe gripping of nuts and screw heads
- 3 level points prevents slipping and rounding
- With loosening lever
- With easy locking action
- Size adjustment using the adjustment wheel
- Good adaptation to existing surfaces
- With wire cutting function
- No flaring under the strongest loads
- Loosening under continuous pressure of a national
- Nickel plated
- Chrome molybdenum

	mm	L mm	g	
115.1175	11-19	175,0	370	
115.1176	16-27	240,0	700	

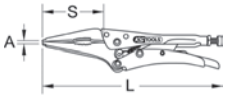
Chain grip pliers

- For fastening and clamping of different profiles
- With loosening lever
- With easy locking action
- Size adjustment using the adjustment wheel
- Ideal for confined spaces
- Good adaptation to existing surfaces
- No flaring under the strongest loads
- Loosening under continuous pressure of a national
- Nickel plated
- Chrome molybdenum


	Ø mm	Length mm	Replacement chain	kg	
115.1171	150,0	220,0	115.1172	0,76	

Long nose locking pliers

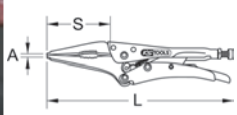
- Forged gripping jaws
- Serrated execution
- Size adjustment using the adjustment wheel
- With loosening lever
- With easy locking action
- For round and flat material
- To hold when welding
- No flaring under the strongest loads
- Loosening under continuous pressure of a national
- Nickel plated
- Chrome molybdenum

	A mm	L mm	S mm	g	
115.1177	0-25	125,0	35	110	

Long-nose locking pliers with quick-release lever

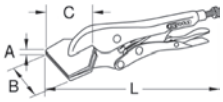
- Forged gripping jaws
- Serrated execution
- Size adjustment using the adjustment wheel
- With easy locking action
- For round and flat material
- To hold when welding
- Quick-release lever
- No flaring under the strongest loads
- Loosening under continuous pressure of a national
- Nickel plated
- Chrome molybdenum
- Two component handle

	A mm	L mm	S mm	g	
115.2034	0-45	170,0	45,0	300	
115.2035	0-60	205,0	53,0	500	

Wide and flat jaw locking pliers

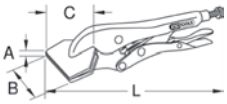
- Forged gripping jaws
- With loosening lever
- With easy locking action
- Size adjustment using the adjustment wheel
- For clamping of flat or bended metal sheets
- No flaring under the strongest loads
- Loosening under continuous pressure of a national
- Nickel plated
- Chrome molybdenum

	A mm	B mm	C mm	L mm	g	
115.1076	0-50	80,0	40,0	210,0	465	
115.1077	0-55	80,0	45,0	250,0	675	

Wide jaw flat die locking pliers with quick-release lever

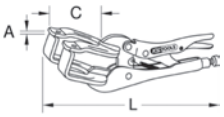
- Forged gripping jaws
- With easy locking action
- Size adjustment using the adjustment wheel
- For clamping of flat or bended metal sheets
- Quick-release lever
- No flaring under the strongest loads
- Loosening under continuous pressure of a national
- Nickel plated
- Chrome molybdenum
- Two component handle

	A mm	C mm	L mm	B mm	g	
115.2076	0-40	45,0	205,0	80,0	600	
115.2077	0-55	45,0	250,0	80,0	800	

Welding gripping pliers

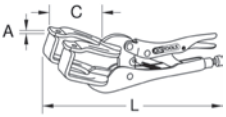
- With malleable cast iron jaws
- Suitable for setting the welding points between the cut outs
- With loosening lever
- Size adjustment using the adjustment wheel
- To hold and adjust sheets and profiles
- With easy locking action
- No flaring under the strongest loads
- Loosening under continuous pressure of a national
- Nickel plated
- Chrome molybdenum

	A mm	C mm	L mm	g	
115.1078	0-45	70,0	220,0	600	
115.1079	0-55	70,0	260,0	780	

Welding gripping pliers with quick-release lever

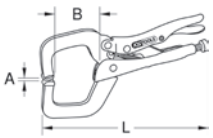
- With malleable cast iron jaws
- Suitable for setting the welding points between the cut outs
- Size adjustment using the adjustment wheel
- To hold and adjust sheets and profiles
- With easy locking action
- Quick-release lever
- No flaring under the strongest loads
- Loosening under continuous pressure of a national
- Nickel plated
- Chrome molybdenum
- Two component handle

	A mm	C mm	L mm	g	
115.2078	0-45	70,0	220,0	710	
115.2079	0-65	70,0	260,0	875	

Welding gripping pliers

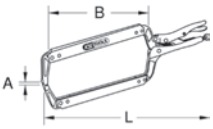
- Forged semi-circular gripping jaws
- With loosening lever
- With easy locking action
- Size adjustment using the adjustment wheel
- For profiled bulky components
- Good adaptation to existing surfaces
- No flaring under the strongest loads
- Loosening under continuous pressure of a national
- Nickel plated
- Chrome molybdenum

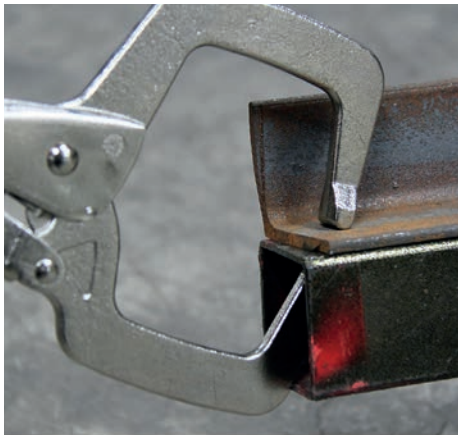
	A mm	B mm	L mm	g
115.1070	0-35	40,0	170,0	240

Welding gripping pliers, extra long

- Round forged gripping jaws
- With loosening lever
- With easy locking action
- Size adjustment using the adjustment wheel
- For profiled bulky components
- Large clamping depth for front and rear panels
- Good adaptation to existing surfaces
- No flaring under the strongest loads
- Loosening under continuous pressure of a national
- Nickel plated
- Chrome molybdenum

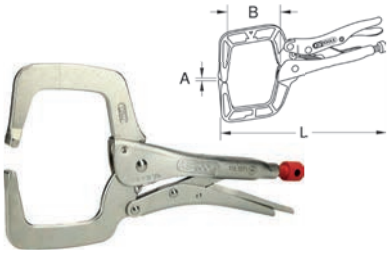



	A mm	B mm	L mm	kg
115.1072	0-270	250,0	450,0	1,18



Welding gripping pliers

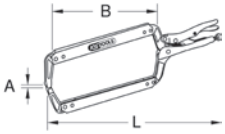
- Very good clamping capacity
- Round forged gripping jaws
- With loosening lever
- With easy locking action
- Size adjustment using the adjustment wheel
- For profiled bulky components
- Good adaptation to existing surfaces
- No flaring under the strongest loads
- Loosening under continuous pressure of a national
- Nickel plated
- Chrome molybdenum



	A mm	B mm	L mm	g
115.1071	0-100	90,0	270,0	780

Welding gripping pliers, extra long

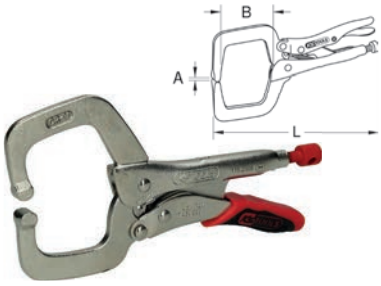
- Round forged gripping jaws
- With loosening lever
- With easy locking action
- Size adjustment using the adjustment wheel
- For profiled bulky components
- Large clamping depth for front and rear panels
- Good adaptation to existing surfaces
- No flaring under the strongest loads
- Loosening under continuous pressure of a national
- Nickel plated
- Chrome molybdenum

	A mm	B mm	L mm	kg
115.0573	0-295	415,0	610,0	1,50

Welding clamp gripping pliers with quick-release lever

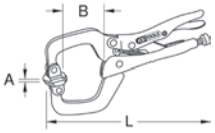
- Very good clamping capacity
- Round forged gripping jaws
- Quick-release lever
- With easy locking action
- Size adjustment using the adjustment wheel
- For profiled bulky components
- Good adaptation to existing surfaces
- No flaring under the strongest loads
- Loosening under continuous pressure of a national
- Nickel plated
- Chrome molybdenum
- Two component handle



	A mm	B mm	L mm	g
115.2008	0-45	45,0	165,0	300
115.2009	0-90	85,0	280,0	900

Welding gripping pliers with movable clamping jaws

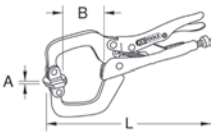
- Flat gripping jaws
- Movable clamping jaws
- With loosening lever
- With easy locking action
- Size adjustment using the adjustment wheel
- For profiled bulky components
- Good adaptation to existing surfaces
- No flaring under the strongest loads
- Loosening under continuous pressure of a national
- Nickel plated
- Chrome molybdenum

	A mm	B mm	L mm	kg
115.1178	0-25	25,0	125,0	0,15
115.1073	0-35	40,0	170,0	0,24
115.1074	0-100	70,0	285,0	0,78
115.1075	0-270	240,0	420,0	1,25
115.0570	0-420	395,0	610,0	1,54

Welding gripping pliers with movable clamping jaws

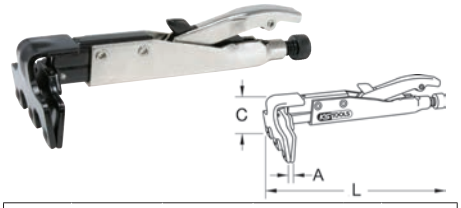
- Flat gripping jaws
- Movable clamping jaws
- Quick-release lever
- With easy locking action
- Size adjustment using the adjustment wheel
- For profiled bulky components
- Good adaptation to existing surfaces
- No flaring under the strongest loads
- Loosening under continuous pressure of a national
- Nickel plated
- Chrome molybdenum
- Two component handle

	A mm	B mm	L mm	kg
115.2013	0-30	40,0	175,0	0,30
115.2014	0-85	75,0	290,0	0,85

Welding gripping pliers

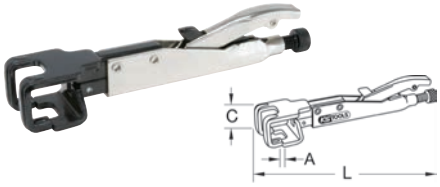
- For applications that need a straight jaw
- Jaws from special steel
- With easy locking action
- Quick-release lever
- Size adjustment using the adjustment wheel
- Ideal for spot welding
- Nickel plated handle
- Chrome molybdenum



	A mm	C mm	L mm	g
115.1080	0-20	56,0	205,0	548

Welding gripping pliers

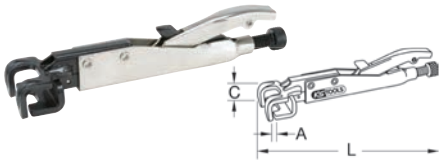
- For applications that required double curved jaws
- Jaws from special steel
- With easy locking action
- Quick-release lever
- Size adjustment using the adjustment wheel
- Ideal for fitting and mounting of body parts
- Nickel plated handle
- Chrome molybdenum



	A mm	C mm	L mm	g
115.1081	0-20	39,0	230,0	568

Welding gripping pliers

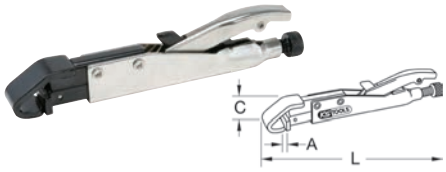
- For applications that required double curved jaws
- Jaws from special steel
- With easy locking action
- Quick-release lever
- Size adjustment using the adjustment wheel
- For welding of the hole between the panels
- Also suitable for U-profile
- Nickel plated handle
- Chrome molybdenum



	A mm	C mm	L mm	g
115.1082	0-15	26,0	215,0	562

Welding gripping pliers

- For applications that need a angled jaw
- Jaws from special steel
- With easy locking action
- Quick-release lever
- Size adjustment using the adjustment wheel
- Ideal for welding in the fold
- Also suitable for U-profile
- Nickel plated handle
- Chrome molybdenum



	A mm	C mm	L mm	g
115.1083	0-20	30,0	210,0	509

Welding gripping pliers

- For applications that need a straight jaw
- Slim design
- Jaws from special steel
- With easy locking action
- Quick-release lever
- Size adjustment using the adjustment wheel
- For right angled terminals in the fold
- For difficult to access areas
- Nickel plated handle
- Chrome molybdenum

	A mm	C mm	L mm	g
115.1084	0-16	30,0	195,0	488

Welding gripping pliers set

- For applications that need a straight jaw
- Extra slim design
- Jaws from special steel
- With easy locking action
- Quick-release lever
- Size adjustment using the adjustment wheel
- For right angled terminals in the fold
- For difficult to access areas
- For welding of the hole between the panels
- Also suitable for U profile
- Ideal for spot welding
- Nickel plated handle
- Chrome molybdenum

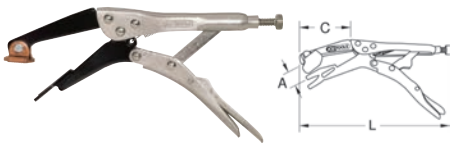
			kg
115.1085	5 pcs	Welding gripping pliers set	2,62

consists of:

		g
115.1080	Welding self grip pliers, 205 mm	548
115.1081	Welding self grip pliers, 230 mm	568
115.1082	Welding self grip pliers, 215 mm	562
115.1083	Welding self grip pliers, 210 mm	509
115.1084	Welding self grip pliers, 195 mm	488

Welding gripping pliers

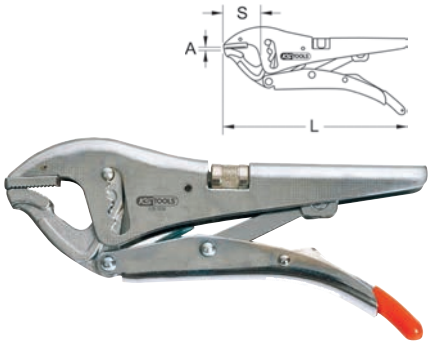
- Flat gripping jaws
- Movable clamping jaws
- Serrated execution
- No sticking to the electrode
- Quick-release lever
- With easy locking action
- Good adaptation to existing surfaces
- Copper alloy clamping jaws
- No flaring under the strongest loads
- Loosening under continuous pressure of a national
- Nickel plated handle
- Chrome molybdenum



	A mm	C mm	L mm	g
115.1180	0-70	85,0	240,0	500

Locking pliers, serrated

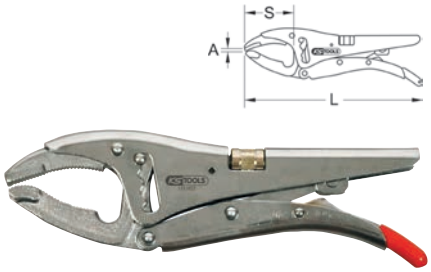
- Forged gripping jaws
- Serrated execution
- Quick-release lever
- Size adjustment using the adjustment wheel
- For round and flat material
- To hold when welding
- Nickel plated
- Chrome molybdenum



	A mm	L mm	S mm	g
115.1036	0-55	220,0	40,0	670

Locking pliers, serrated

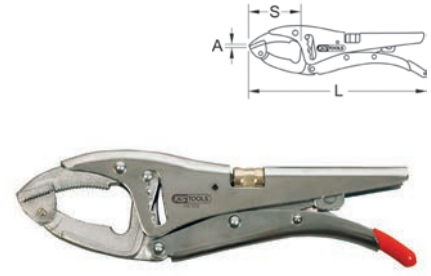
- Forged gripping jaws
- Serrated execution
- Quick-release lever
- Size adjustment using the adjustment wheel
- For round and flat material
- To hold when welding
- Nickel plated
- Chrome molybdenum



	A mm	L mm	S mm	g
115.1037	0-85	250,0	60,0	800

Locking pliers, serrated

- Forged gripping jaws
- Movable clamping jaws
- Serrated execution
- Quick-release lever
- Size adjustment using the adjustment wheel
- For round and flat material
- To hold when welding
- Nickel plated
- Chrome molybdenum



	A mm	L mm	S mm	g
115.1038	0-85	250,0	60,0	800

Special clamping gripping pliers

- For the cutting of plastic pipes
- Enormous time and cost saving
- Suitable for narrow hard to access areas
- Versatile use
- With loosening lever
- With easy locking action
- Size adjustment using the adjustment wheel
- Black lacquer
- Chrome molybdenum

	Size mm	Ø mm	Length mm	g
450.0350	1	8 / 9 / 10 / 11 / 12	260,0	775
450.0351	2	7 / 9 / 10 / 12 / 14	265,0	775
450.0352	3	15 / 16 / 18	255,0	636

RIVETING PLIERS

Plastic rivet pliers set included rivets

- Suitable for plastic rivets
- Narrow head pliers
- Can be used in hard to access areas
- 90° angled rivet head
- With rubber grip
- Includes 40 plastic rivets
- Die-cast metal body

Plastic rivets: 5.0x15.8 - 5.0x17.2 - 6.3x25.2 - 6.6x17.2 mm

			g
150.9650	41 pcs	Plastic rivet pliers set included rivets	760

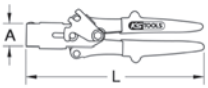
consists of:

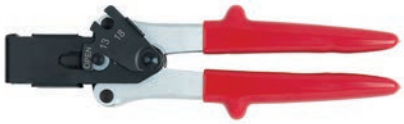
		g
150.9651	Plastic rivet pliers	580
150.9652	Replacement rivets Pack of 10, 17,2 x 6,6 mm	20
150.9653	Replacement rivets Pack of 10, 25,2 x 6,3 mm	22
150.9654	Replacement rivets Pack of 10, 17,2 x 5 mm	15
150.9655	Replacement rivets Pack of 10, 15,8 x 5 mm	16

Anchor rivet pliers

- Suitable for anchor rivets
- With PVC dipped handle
- Die-cast metal body

Anchor rivets: 4 - 5 - 6 - 8 mm (5/32" - 3/16" - 15/64" - 5/16")



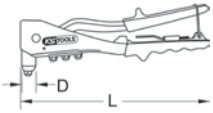


	A mm	L mm	g
150.9580	30,0	230,0	438

Standard hand riveting tool

- Suitable for blind rivets
- Including four interchangeable mouthpieces
- Magazine and key in the riveter body
- Narrow head pliers
- With safety lock on the handle end
- With rubber grip
- Die-cast metal body

Blind rivets: 2,4 - 3,2 - 4,0 - 4,8 mm



	D mm	L mm	g
150.9510	21,0	270,0	920

Standard hand riveting tool set

- Suitable for blind rivets
- Four interchangeable mouthpieces
- Magazine and key in the riveter body
- Includes 200 blind rivets
- With rubber grip
- Die-cast metal body

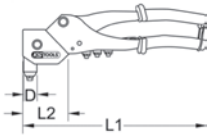
Blind rivets: 2,4 - 3,2 - 4,0 - 4,8 mm

			kg
150.9520	205 pcs	Standard hand riveting tool set	1,25

Hand rivet tool

- Suitable for blind rivets
- 360° rotating head
- For difficult to access areas
- Narrow head pliers
- With safety lock on the handle end
- Including four interchangeable mouthpieces
- Die-cast metal body

Blind rivets: 2,4 - 3,2 - 4,0 - 4,8 mm



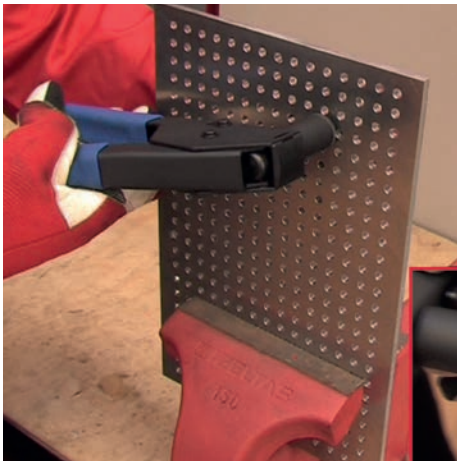
	D mm	L1 mm	L2 mm	g
150.9540	21,0	290,0	70,0	751

Universal hand riveting tool set

- Suitable for blind rivets, blind rivet nuts and hollow metal dowels
- 360° rotating head
- For difficult to access areas
- Four interchangeable mouthpieces and nut rivet pulling inserts
- Die-cast metal body

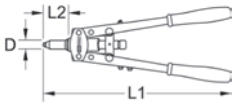
Blind rivets: 2.4mm-3.2mm-4.0mm-4.8mm
Rivet nuts: M3-M4-M5-M6
Cavity metal dowels: 3.0 - 6.0 mm

			kg
150.9610	10 pcs	Universal hand riveting tool set	1,96



Long arm hand riveting tool

- Suitable for blind rivets
- Including four interchangeable mouthpieces
- Extra-long lever arms
- High power transmission
- Magazine and key in the riveter body
- With rubber grip
- Die-cast metal bodyBlind rivets: 2,4 - 3,2 - 4,0 - 4,8 mm

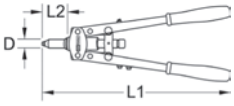


	D mm	L1 mm	L2 mm	kg
150.9530	21,0	410,0	59,0	1,50

Universal riveting tool

- Suitable for blind rivets, blind rivet nuts and hollow metal dowels
- Retractable legs for increased power consumption
- Mouthpiece magazine intergrated in the handle
- Two component handle
- Die-cast metal body

Blind rivets: 2,4 - 3,2 - 4,0 - 4,8 - 6,4 mm



	D mm	L1 mm	L2 mm	kg
150.9633	30,0	510,0	45,0	1,60

Universal riveting tool set

- Suitable for blind rivets, blind rivet nuts and hollow metal dowels
- Retractable legs for increased power consumption
- Mouthpiece magazine intergrated in the handle
- Two component handle
- Die-cast metal body

Blind rivets: 2,4 - 3,2 - 4,0 - 4,8 - 6,4 mm
Rivet nuts: M4 - M5 - M6 - M8 - M10

			kg
150.9630	17 pcs	Universal riveting tool set	2,67

consists of:

		g
150.9570	Mouthpieces for riveting, 2,4mm	10
150.9571	Mouthpieces for riveting, 3,2mm	10
150.9572	Mouthpieces for riveting, 4,0mm	10
150.9573	Mouthpieces for riveting, 4,8mm	10
150.9575	Mouthpieces for riveting, 6,4mm	10
150.9630-1	Collection container for 150.9630	100
150.9632	Replacement rivet heads for nosepieces 150.9630	40
150.9634	Rivet nut pulling spindle for riveting tools 150.9630, M4	40
150.9635	Rivet nut pulling spindle for riveting tools 150.9630, M5	40
150.9636	Rivet nut pulling spindle for riveting tools 150.9630, M6	40
150.9637	Universal riveting tool, 510 mm	1350
150.9638	Rivet nut pulling spindle for riveting tools 150.9630, M8	70
150.9640	Rivet nut pulling spindle for riveting tools 150.9630,M10	70
150.9642	Combination spanner 8.5 + 5.5 mm, for 150.9630	15
150.9643	Combination spanner 17 + 12 mm, for 150.9630	29
150.9644	Combination spanner 19 + 15 mm, for 150.9630	35
151.2026	Hexagon key wrench, short, 6mm	30

CRIMPING PLIERS

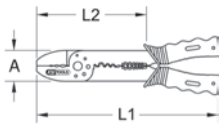
Wire end ferrule pliers

- For cable cutting and wire stripping
- For the proper crimping of lugs and plug connectors
- Suitable for insulated and non-insulated cable end sleeves
- Ideal leverage
- Easy solderless pressing on in one work step
- With PVC dipped handle
- Pliers body made of flat steel

	Ø mm	Length mm	g
115.1236	0,25 - 2,5	155,0	165
115.1237	0,5 - 16,0	220,0	240

Crimp pliers for not insulated, opened cable connector

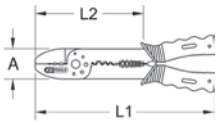
- Ideally suited for converting not insulated contacts
- For stripping of wires from 0.5 - 6.0 mm²
- Cut wires up to 6.0 mm²
- For crimping blade terminals 2.8 / 4.8 / 6.3 mm and other contacts with open crimp sleeve
- With PVC dipped handle
- Plier body from special steel
- Material strength 3 mm



	A mm	L1 mm	L2 mm	g
115.1235	38,0	220,0	120,0	196

Multifunction pliers for insulated and non insulated cable terminals

- For professional cable cutting and stripping wires from 0,75 - 6,0 mm²
- For crimping cable terminals and connectors from 1,5 - 6,0 mm²
- Cutting function
- Two component handle
- Pliers body made of flat steel

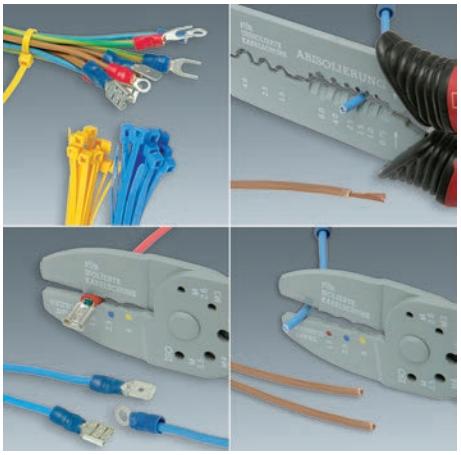


	A mm	L1 mm	L2 mm	g
115.1231	40,0	220,0	130,0	230

Multifunction crimping pliers set

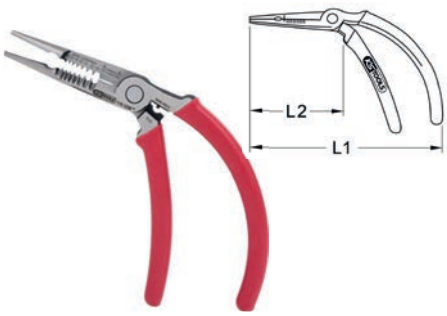
- For insulated and un-insulated cable terminals
- Includes 270 pcs consumables
- For professional cable cutting and stripping wires from 0,75 - 6,0 mm²
- For crimping cable terminals and connectors from 1,5 - 6,0 mm²
- Cutting function
- Two component handle
- Pliers body made of flat steel
- In durable plastic storage case

			g
115.1230	271 pcs	Multifunction crimping pliers set	560



5-in-1 crimping pliers with bent handle

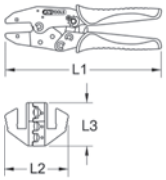
- Versatile long-nose pliers to crimp, strip, cut, bend and shape
- Serrated jaws
- Perfect for stripping and crimping wires
- With integrated screw extractor and wire cutters
- Ergonomic design
- Perfect for hard-to-reach places
- Extremely robust and reliable
- Optimum power transmission with rotary and train movements
- With PVC dipped handle
- Chrome vanadium



	Ø mm	AWG	L1 mm	L2 mm	
115.1238	0,3 - 6,0	10/12/14/16/18/20/22	190,0	110,0	280

Crimping pliers for non insulated terminals

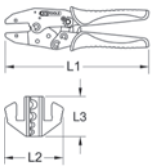
- Extremely robust and reliable
- Safety lock
- Inserts lock and to they click to prevent possible misuse
- Optimal crimping through precision profile
- Ratchet function
- Adjustment of the crimping pressure
- Easy to change the crimp heads through quick locking device
- Two component handle
- Burnished
- Pliers body made of flat steel



	mm²	AWG	L1 mm	L2 mm	L3 mm		
115.1425	0,5-1,0/1,5-2,5/4,0-6,0	22-18/16-14/12-10	220,0	50,0	34,0	115.1415	491

Crimping pliers for insulated terminals

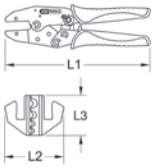
- Extremely robust and reliable
- Safety lock
- Inserts lock and to they click to prevent possible misuse
- Optimal crimping through precision profile
- Ratchet function
- Adjustment of the crimping pressure
- Easy to change the crimp heads through quick locking device
- Two component handle
- Burnished
- Pliers body made of flat steel



	mm²	AWG	L1 mm	L2 mm	L3 mm		
115.1430	1,5/2,5/6,0/10,0	20-18/16-14/12-10/8	220,0	50,0	34,0	115.1416	487

Crimping pliers for pin terminals

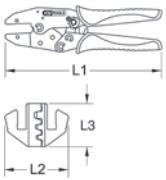
- Extremely robust and reliable
- Safety lock
- Inserts lock and to they click to prevent possible misuse
- Optimal crimping through precision profile
- Ratchet function
- Adjustment of the crimping pressure
- Easy to change the crimp heads through quick locking device
- Two component handle
- Burnished
- Pliers body made of flat steel



	mm²	AWG	L1 mm	L2 mm	L3 mm		
115.1440	0,5/0,75/1,0/1,5/2,5/4,0	22/20/18/16-14/12-10	220,0	50,0	34,0	115.1418	499
115.1450	6,0/10,0/16,0	10/8/6	220,0	50,0	34,0	115.1420	499

Crimping pliers for spade terminals

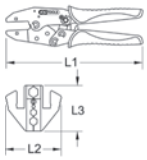
- Extremely robust and reliable
- Safety lock
- Inserts lock and to they click to prevent possible misuse
- Optimal crimping through precision profile
- Ratchet function
- Adjustment of the crimping pressure
- Easy to change the crimp heads through quick locking device
- Two component handle
- Burnished
- Pliers body made of flat steel



	mm²	AWG	L1 mm	L2 mm	L3 mm		
115.1435	0,5-1,0/1,5-2,5/4,0-6,0	20-18/16-14/12-10	220,0	50,0	34,0	115.1417	499
115.1455	2,5/0,5/8,0/10,0	14-22/8-6	220,0	50,0	34,0	115.1421	505

Crimping pliers for coaxial terminals

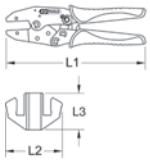
- Extremely robust and reliable
- Safety lock
- Inserts lock and to they click to prevent possible misuse
- Optimal crimping through precision profile
- Ratchet function
- Adjustment of the crimping pressure
- Easy to change the crimp heads through quick locking device
- Two component handle
- Burnished
- Pliers body made of flat steel



	mm²	AWG	L1 mm	L2 mm	L3 mm		
115.1445	1,72/2,50/5,40/6,48/8,23	RG58/RG59/RG62	220,0	50,0	34,0	115.1419	491

Crimping pliers for Western terminals

- Extremely robust and reliable
- Safety lock
- Inserts lock and to they click to prevent possible misuse
- Optimal crimping through precision profile
- Ratchet function
- Adjustment of the crimping pressure
- Easy change of crimp inserts
- Through quick locking device
- Two component handle
- Burnished
- Pliers body made of flat steel



	mm²	AWG	L1 mm	L2 mm	L3 mm		
115.1460	RJ22	22-24	220,0	50,0	34,0	115.1422	500
115.1465	RJ11/RJ12	22-24	220,0	50,0	34,0	115.1423	505
115.1470	RJ45	22-24	220,0	50,0	34,0	115.1424	505

Electricians crimping pliers set

- Ideal configuration for electricians
- Extremely robust and reliable
- Safety lock
- Inserts lock and to they click to prevent possible misuse
- Optimal crimping through precision profile
- Ratchet function
- Adjustment of the crimping pressure
- Easy to change the crimp heads through quick locking device
- In durable plastic storage case
- Two component handle
- Burnished
- Pliers body made of flat steel

115.1480	3 pcs	Electricians crimping pliers set	910
1 x		220 mm	
1 x		Ø 0,5 - 4,0 mm, H	
1 x		Ø 1,5 - 10,0 mm, B	

Net working crimping pliers set

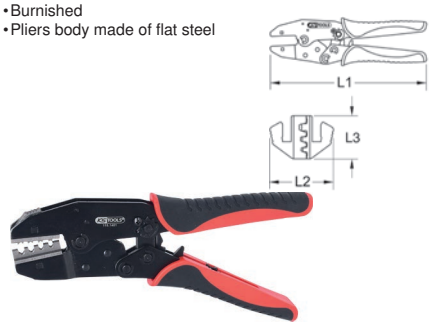
- Ideal configuration for network cabling
- Extremely robust and reliable
- Safety lock
- Inserts lock and to they click to prevent possible misuse
- Optimal crimping through precision profile
- Ratchet function
- Adjustment of the crimping pressure
- Easy to change the crimp heads through quick locking device
- In durable plastic storage case
- Two component handle
- Burnished
- Pliers body made of flat steel

			kg
115.1490	5 pcs	Net working crimping pliers set	1,05

1 x		220 mm
1 x		AWG: 22 - 14 - 6 - 8, H
1 x		AWG: 22 - 24, G1
1 x		AWG: 22 - 24, G2
1 x		AWG: 22 - 24, G3

Crimping pliers for Solarlok

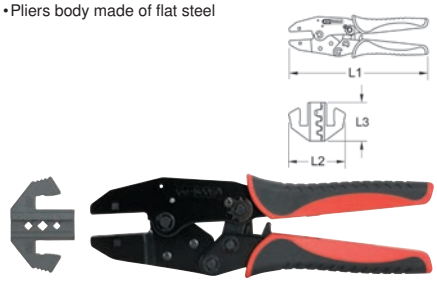
- Extremely robust and reliable
- Safety lock
- Inserts lock and to they click to prevent possible misuse
- Optimal crimping through precision profile
- Ratchet function
- Adjustment of the crimping pressure
- Easy to change the crimp heads through quick locking device
- Two component handle
- Burnished
- Pliers body made of flat steel



	mm²	AWG	L1 mm	L2 mm	L3 mm		g
115.1520	6,0 / 4,0 / 2,5 / 1,5	10 - 15	220,0	50,0	34,0	115.1412	540

Crimping plier for solar coupler MC 3

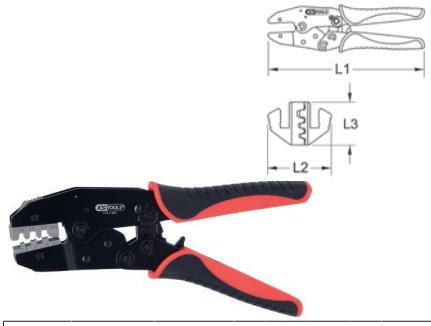
- Extremely robust and reliable
- Safety lock
- Inserts lock and to they click to prevent possible misuse
- Optimal crimping through precision profile
- Ratchet function
- Adjustment of the crimping pressure
- Easy to change the crimp heads through quick locking device
- Two component handle
- Burnished
- Pliers body made of flat steel



	mm²	AWG	L1 mm	L2 mm	L3 mm		g
115.1521	4,0 / 6,0 / 2,5	12 / 10 / 14	220,0	50,0	34,0	115.1413	545

Crimping pliers for solar coupler MC 4

- Extremely robust and reliable
- Safety lock
- Inserts lock and to they click to prevent possible misuse
- Optimal crimping through precision profile
- Ratchet function
- Adjustment of the crimping pressure
- Easy to change the crimp heads through quick locking device
- Two component handle
- Burnished
- Pliers body made of flat steel



	mm²	AWG	L1 mm	L2 mm	L3 mm		g
115.1522	2,5 / 4,0 / 6,0	14 / 12 / 10	220,0	50,0	34,0	115.1414	550

Universal crimping tool set with automatic wire stripper

- Extremely robust and reliable crimping tool
- Safety lock
- Inserts lock and to they click to prevent possible misuse
- Optimal crimping through precision profile
- Ratchet function
- Adjustment of the crimping pressure
- Easy to change the crimp heads through quick locking device
- Two component handle
- Burnished
- Pliers body made of flat steel
- Including self-closing and damage-free automatic wire stripper

			kg
115.1400	283 pcs	Universal crimping tool set with automatic wire stripper	2,37

1 x		220 mm
1 x		Ø 0,5 - 4,0 mm, H
1 x		Ø 1,5 - 10,0 mm, B
1 x		Ø 0,5 - 6,0 mm, C
1 x		Ø 0,5 - 4,0 mm, D
1 x		RG 58 - RG 71, E
1 x		1,0 - 3,2 mm
1 x		

WIRE PROCESSING PLIERS

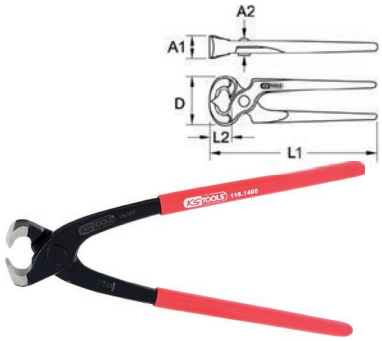
Wire twisting pliers

- Anticlockwise
- Serrated execution
- 30° angled jaws
- With additional cutting
- Enables precise, in seconds wire twisting
- Suitable for wire up to 1,0 mm
- Narrow nose for optimal mobility
- Burnished
- Special tool steel

	B mm	L1 mm	L2 mm	S mm	g
116.1301	10,0	215,0	40,0	10,0	230
116.1302	12,0	265,0	60,0	13,0	360

Rabitz pliers

- In accordance to DIN ISO 9242
- With PVC dipped handle
- Ground heads
- For cutting and twisting tie wire
- Oil-hardened
- Black surface
- Special tool steel



	A1 mm	A2 mm	D mm	L1 mm	L2 mm	g
116.1404	18,0	19,0	26,0	190,0	17,0	350
116.1401	20,0	19,0	29,0	220,0	17,0	400
116.1400	25,0	20,0	36,0	250,0	17,0	400
116.1403	26,0	20,0	37,0	280,0	17,0	500

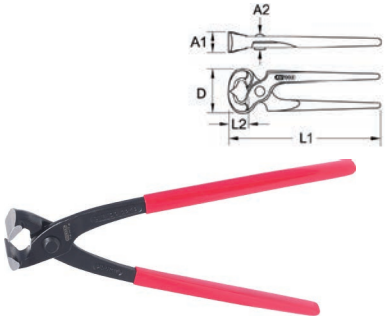
Heavy pincers

- In accordance to DIN ISO 9243
- With PVC dipped handle
- Ground heads
- For heavy applications
- Oil-hardened
- Black surface
- Special tool steel

	A1 mm	A2 mm	D mm	L1 mm	L2 mm	g
116.1300	24,0	23,0	52,0	200,0	23,0	410

Self opening rabitz pliers

- In accordance to DIN ISO 9242
- With PVC dipped handle
- Ground heads
- Self-opening handle with internal spring
- For cutting and twisting tie wire
- Oil-hardened
- Black surface
- Special tool steel

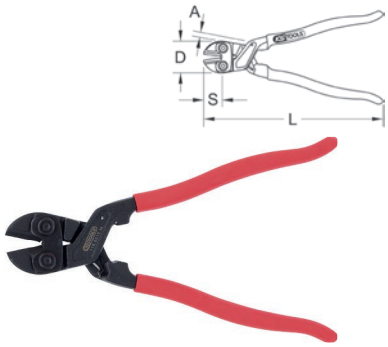


	A1 mm	A2 mm	D mm	L1 mm	L2 mm	g
116.1411	23,0	20,0	30,0	220,0	17,0	400
116.1410	27,0	22,0	36,0	250,0	19,0	400
116.1412	25,0	21,0	35,0	280,0	18,0	400

BOLT CUTTERS

Mini bolt cutter, self-releasing

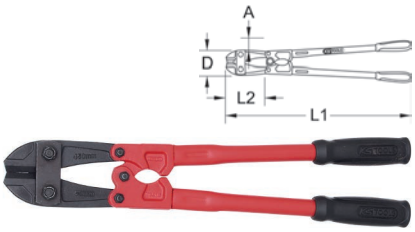
- Cutting performance up to 60-63 HRC
- Cutter head made of high quality special steel
- Induction-hardened precision cutting
- Phosphate finish
- Chrome molybdenum



	L mm	S mm	D mm	A mm	g
118.0015	205,0	14,0	34,0	17,0	270

Bolt cutters

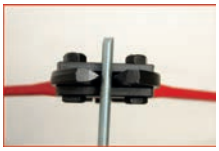
- Cutting performance up to 40 HRC
- With pipe handle
- With steel tube legs and eccentric adjustment
- With interchangeable cutter head
- Cutter head made of high quality special steel
- Induction-hardened precision cutting
- Phosphate finish
- Special tool steel

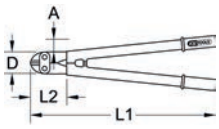


	A mm	D mm	L1 mm	L2 mm	Replacement cutter head	kg
118.0118	20,0	65,0	450,0	115,0	118.0119	1,50
118.0124	22,0	85,0	600,0	136,0	118.0125	2,50
118.0130	27,0	95,0	750,0	155,0	118.0131	4,88
118.0136	35,0	110,0	900,0	170,0	118.0137	6,70
118.0142	40,0	120,0	1050,0	195,0	118.0143	6,70

Bolt cutters

- Cutting performance up to 40 HRC
- With forged arms
- With steel tube legs and eccentric adjustment
- With interchangeable cutter head
- Cutter head made of high quality special steel
- Induction-hardened precision cutting
- Phosphate finish
- Special tool steel





	A mm	D mm	L1 mm	L2 mm	Replacement cutter head	kg
118.0218	20,0	65,0	460,0	120,0	118.0119	2,60
118.0224	25,0	82,0	610,0	135,0	118.0125	2,90
118.0230	30,0	95,0	760,0	155,0	118.0131	3,20
118.0236	35,0	110,0	900,0	170,0	118.0137	5,40

Reinforcement steel mesh cutter

- Cutting performance up to 40 HRC
- With adjustable cutters
- Low separating force effort
- Limit stop with extra-large buffer area
- Unproblematic gripping of flat lying construction steels

	S mm	L mm	kg
118.0246	45,0	820,0	2,79

SADDLER PLIERS

Upholstery clamp pliers set

- Straps for attaching bolster clamps to vehicle seats
- For all common bolster clamps
- Includes 100 clamps
- With PVC dipped handle
- Chrome vanadium

			g
118.0160	101 pcs	Upholstery clamp pliers set	310

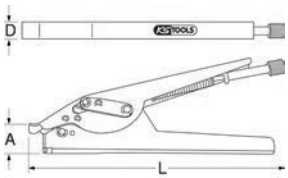
consists of:

		g
118.0161	Clamps, 100 pcs	85
118.0162	Seat clamp pliers	180

CABLE TIE GUNS

Cable tie gun

- ideally suited for tensioning and flush cutting of plastic cable ties
- for plastic cable ties from 2.4 to 13 mm width
- stepless tension force adjustment
- Special tool steel

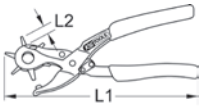


	A mm	D mm	L mm	g
115.1027	17,0	19,0	190,0	210

REVOLVING PUNCH PLIERS

Revolving punch pliers

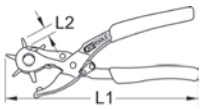
- With an ergonomic, molded handle
- With inspection panel
- Automatic locking device
- Interchangeable hole punches
- Nickel plated
- Chrome vanadium



	L1 mm	L2 mm	g
118.0041	220,0	10,0	325

Revolving punch and eyelet pliers

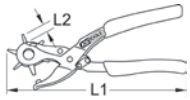
- Ideal for working with eyelets
- With an ergonomic, molded handle
- With inspection panel
- Automatic locking device
- Interchangeable hole punches
- Nickel plated
- Chrome vanadium



	L1 mm	L2 mm	g
118.0042	220,0	10,0	325

Revolving punch pliers, normal hand

- Up to 70% power savings
- With an ergonomic, molded handle
- With inspection panel
- Automatic locking device
- Interchangeable hole punches
- Nickel plated
- Chrome vanadium

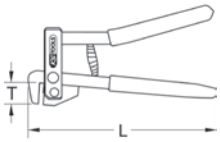


	L1 mm	L2 mm	g
118.0043	250,0	10,0	430

PUNCHED HOLE AND JOGGLER PLIERS

Mini joggler pliers

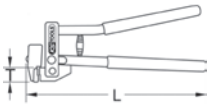
- Self opening
- For the flanging of sheet metal and body parts
- Up to 1 mm thickness
- Particularly suitable for thin sheet metal edges, curves and arches
- Lower power usage
- Hardened flanging jaws
- Special tool steel



	L mm	T mm	g
118.0056	220,0	13,0	900

Joggler pliers

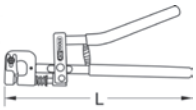
- Self opening
- For the flanging of sheet metal and body parts
- Up to 1 mm thickness
- Lower power usage
- Hardened flanging jaws
- Special tool steel



	L mm	T mm	kg
118.0058	280,0	13,0	1,00

Joggler pliers

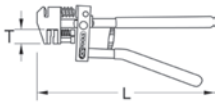
- Self opening
- For punching straight and bent sheet metal
- Up to 1.25 mm thickness
- Radius to 40,0 mm
- Hole diameter 5 mm
- Lower power usage
- Special tool steel



	L mm	hole diameter	kg
118.0057	300,0	max. 5 mm	1,00

Punched hole and joggler pliers

- Self opening
- Fast conversion by simply turning the head
- For the flanging and punching sheet metal and body parts
- Punching up to 1,25 mm thickness
- Hole diameter 5 mm
- Lower power usage
- Special tool steel

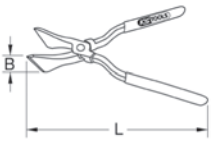


	L mm	T mm	hole diameter	kg
118.0055	285,0	13,0	max. 5 mm	1,23

PLUMBER PLIERS

Seaming pliers

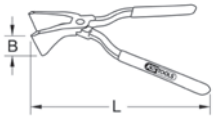
- For folding of sheet metal
- Straight design
- Insulated handle
- Cast iron



	L mm	B mm	g
222.1601	280,0	52,0	660

Seaming pliers

- For folding of sheet metal
- 45° angled jaws
- Insulated handle
- Cast iron



	L mm	B mm	g
222.1602	260,0	52,0	670

Seaming pliers

- For folding of sheet metal
- 90° angled jaws
- Insulated handle
- Cast iron

	L mm	B mm	g
222.1603	260,0	52,0	760

PIPE PULL-IN PLIERS

Pipe pull-in pliers, angled

- Perfect for connecting metal pipes with the same diameter, such as waste, ventilation, extraction, smoke and discharge pipes
- The ends of the pipes are narrowed during the process
- Guarantees fast, exact, simple and precise connection
- Embossing punch for all round and square pipes
- Optimised utilisation through angled head
- Tapered to 41.3 mm with a single press
- With five cutters = three bottom and two top cutters
- Extremely robust and reliable
- Self-opening with a clamping facility
- Optimum transmission ratio
- With hanging hole
- Two component handle
- Plier body made of steel

	Length mm	g
123.0051	225,0	440

Pipe pull-in pliers, straight

- Perfect for connecting metal pipes with the same diameter, such as waste, ventilation, extraction, smoke and discharge pipes
- The ends of the pipes are narrowed during the process
- Guarantees fast, exact, simple and precise connection
- Embossing punch for all round and square pipes
- Tapered to 41.3 mm with a single press
- With five cutters = three bottom and two top cutters
- Extremely robust and reliable
- Self-opening with a clamping facility
- Optimum transmission ratio
- With hanging hole
- Two component handle
- Plier body made of steel

	Length mm	g	
123.0050	265,0	480	

CARTRIDGE TIP PLIERS

Cartridge tip pliers

- Ideally suited to cut the ejection nozzle of cartridges or bags as required
- With toothed cutting blade made from solid steel
- Safety locking device
- Allows for the required V cut for windscreen seals and therefore optimised adhesive trim
- Easy to use
- With PVC dipped handle
- Chrome vanadium

	A mm	L mm	S mm	g	
140.2220	33,0	210,0	20,0	420	

HOSE STRP CUTTER PLIERS

Hose strap cutter, angled

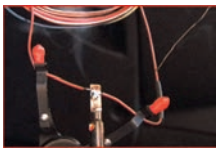
- For cutting off earless hose clamps
- For connections on axle boots, cooler and fuel hoses
- Insulated handle
- Chrome vanadium

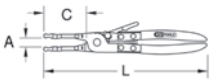
	Length mm	g	
115.1186	220,0	345	

SOLDERING WIRE HOLDING FORCEPS

Soldering wire pliers

- For the safe fixing of braded wire
- Prevents kinking of the solder connection
- The locking device of the pliers means that these can be stored so that both hands are free for soldering
- No more burning fingers
- Slim design for hard-to-access areas
- Adjustable arm for optimal application
- With self opening internal spring
- Includes locking mechanism
- With PVC dipped handle
- Chrome molybdenum





	A mm	C mm	L mm	g	
115.1052	9-74	65,0	245,0	260	

SPARK PLUG CONNECTOR PLIERS

Spark plug connector double joint pliers, long

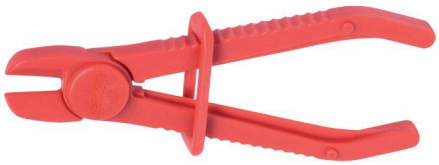
- Long design specially for engines with deep seating of the spark plugs
- Universal usage
- Ideal for heat protection connectors
- Double joint means the pliers require less space to open and grab
- 45° angled gripper sleeves
- Secure handling thanks to plier tips with milled inner profile
- Very long plier arms
- Wide safety clearance to the hot unit
- For damage-free removal and insertion of spark plug connectors, even when the engine is warm
- With PVC dipped handle
- Chrome vanadium

	Ø mm	Length mm	g	
500.7166	8,0	340,0	400	
500.7167	13,0	340,0	400	
500.7205	19,0	320,0	420	

CIRCUIT STOPPER PLIERS

Hose clamp gripper

- For simple clamping of flexible for hoses from 15.9 mm (5/8") up to 60.0 mm (2.3/8")
- For stopping the flow
- The hose is a broad area squeezed against the stable support surface, damaging the hose is avoided
- Variable adjustment with locking function
- Prevents petrol, oil, water and radiator anti-freeze from escaping during maintenance work
- Ideal for use in passenger cars, vans and large vans, commercial vehicles, tractors, agricultural machinery, construction machinery and industrial applications
- Heat resistant up to 160 °C
- Special plastic



	Hose external-Ø mm	g	
115.5052	15,0	80	
115.5053	30,0	130	
115.5054	60,0	160	

Hose clamp pliers set

- For simple clamping of flexible for hoses from 15.9 mm (5/8") up to 60.0 mm (2.3/8")
- For stopping the flow
- The hose is a broad area squeezed against the stable support surface, damaging the hose is avoided
- Variable adjustment with locking function
- Prevents petrol, oil, water and radiator anti-freeze from escaping during maintenance work
- Ideal for use in passenger cars, vans and large vans, commercial vehicles, tractors, agricultural machinery, construction machinery and industrial applications
- Heat resistant up to 160 °C
- Special plastic

			g	
115.5050	3 pcs	Hose clamp pliers set	370	

consists of:

		g	
115.5052	Clamping pliers 150 mm for hoses up to Ø 15 mm	80	
115.5053	Clamping pliers 180 mm for hoses up to Ø 30 mm	130	
115.5054	Clamping pliers 250 mm for hoses up to Ø 60 mm	160	

Hose clamp pliers 90°

- For simple clamping of flexible for hoses from 15.9 mm (5/8") up to 60.0 mm (2.3/8")
- Angled design for use in confined spaces
- For stopping the flow
- The hose is a broad area squeezed against the stable support surface, damaging the hose is avoided
- Variable adjustment with locking function
- Prevents petrol, oil, water and radiator anti-freeze from escaping during maintenance work
- Ideal for use in passenger cars, vans and large vans, commercial vehicles, tractors, agricultural machinery, construction machinery and industrial applications
- Heat resistant up to 160 °C
- Special plastic

	Hose external-Ø mm	g	
115.5057	15,0	55	
115.5058	23,0	95	
115.5059	35,0	130	

Hose clamp pliers set 90° angled

- For simple clamping of flexible for hoses from 15.9 mm (5/8") up to 60.0 mm (2.3/8")
- Angled design for use in confined spaces
- For stopping the flow
- The hose is a broad area squeezed against the stable support surface, damaging the hose is avoided
- Variable adjustment with locking function
- Prevents petrol, oil, water and radiator anti-freeze from escaping during maintenance work
- Ideal for use in passenger cars, vans and large vans, commercial vehicles, tractors, agricultural machinery, construction machinery and industrial applications
- Heat resistant up to 160 °C
- Special plastic

			g	
115.5055	3 pcs	Hose clamp pliers set 90° angled	370	

consists of:

		g	
115.5057	Hose clamp gripper 90°, Ø 15mm	55	
115.5058	Hose clamp gripper 90°, Ø 23mm	95	
115.5059	Hose clamp gripper 90°, Ø 35mm	130	

Stepless hose clamp pliers, angled

- Stepless
- To simply clamp flexible hose lines of 20.0 to 74.0 mm
- For stopping the flow
- The hose is squeezed against the stable bearing area,
- any damage to the hose is avoided
- Flexible jaws enable universal use
- Prevents petrol, oil, water and radiator anti-freeze from escaping during maintenance work
- Ideal for use in passenger cars, vans and large vans, commercial vehicles, tractors, agricultural machinery, construction machinery and industrial applications
- Burnished
- Special tool steel

	Hose external-Ø mm	g	
115.5012	20,0	70	
115.5013	35,0	320	
115.5014	74,0	505	

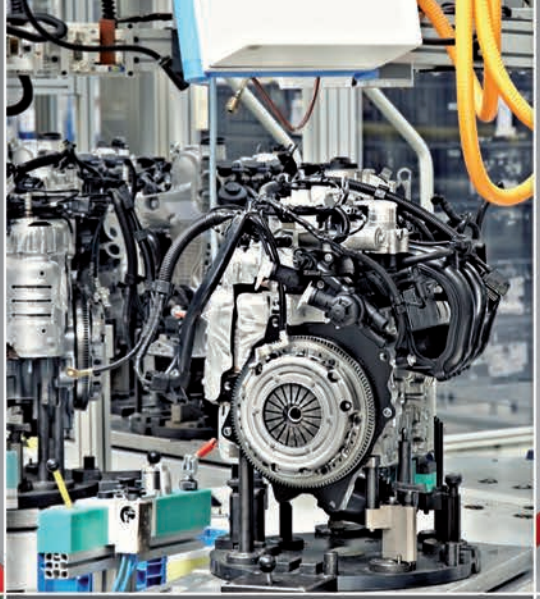
Stepless hose clamp-off pliers set, angled

- Stepless
- To simply clamp flexible hose lines of 20.0 to 74.0 mm
- For stopping the flow
- The hose is squeezed against the stable bearing area,
- any damage to the hose is avoided
- Flexible jaws enable universal use
- Prevents petrol, oil, water and radiator anti-freeze from escaping during maintenance work
- Ideal for use in passenger cars, vans and large vans, commercial vehicles, tractors, agricultural machinery, construction machinery and industrial applications
- Burnished
- Special tool steel

			g	
115.5010	3 pcs	Stepless hose clamp-off pliers set, angled	895	

consists of:

		g	
115.5012	Stepless hose clamp pliers, angled, Ø 20.0 mm	70	
115.5013	Stepless hose clamp pliers, angled, Ø 35.0 mm	320	
115.5014	Stepless hose clamp pliers, angled, Ø 74.0 mm	505	



KS TOOLS®

Innovation is our mission!

PLIERS

CLASSIC

ERGOTORQUE®

ULTIMATE PLUS

GRIPXtreme

KS TOOLS®

Innovation is our mission!

MAGNETIC LIFTER

2in1 telescopic magnetic holder with washing nozzle cleaning and adjustment tool

- Load capacity to 0.5 kg
- With telescopic function
- Practical service tool
- With sturdy, scriber-like centre
- With narrow cleaning rod
- Ideally suited to the cleaning and adjustment of windscreen washer nozzles
- Also suited to the adjustment of headlight washer nozzles
- With mounting clip for breast pocket
- Includes protective covers
- Aluminium

	Head Ø mm	Length mm	g
550.1001	8,0	150,0 - 675,0	25

Telescopic magnetic lifter

- Load capacity to 1.5 kg
- Magnet power raised 35% due to energy safety cap
- Stainless steel

	Head Ø mm	Length mm	g
550.1004	13,0	178,0 - 675,0	70

Telescopic magnetic lifter

- Load capacity to 1.5 kg
- With telescopic function
- Magnet power raised 35% due to energy safety cap
- Stainless steel

	Head Ø mm	Length mm	g
550.1002	18,0	178,0 - 675,0	80

Telescopic magnetic lifter

- Load capacity to 2 kg
- With telescopic function
- Clip for the breast pocket
- Special tool steel

	Head Ø mm	Length mm	g
550.1000	13,0	130,0 - 630,0	30

Telescopic magnetic lifter

- Load capacity to 5 kg
- With rotary head
- With telescopic function
- Magnet power raised 35% due to energy safety cap
- Stainless steel

	Head Ø mm	Length mm	g
550.1003	18,0	200,0 - 700,0	90

Flexible magnetic holder

- Load capacity to 200 g
- Flexible shaft
- 4 mm with a very thin magnetic seat
- One component handle

	Length mm	g
550.1032	400,0	20

Flexible magnet lifter

- Load capacity to 2 kg
- Detachable inner cover
- Magnet power raised 35% due to energy safety cap
- Special tool steel

	Head Ø mm	Length mm	g
550.1010	10,0	585,0	130

2in1 telescopic magnetic jack with washing nozzle cleaning and adjustment tool

- Load capacity to 2.5 kg
- With telescopic function
- With flexible magnetic head
- Practical service tool
- With sturdy, scriber-like centre
- With narrow cleaning rod
- Ideally suited to the cleaning and adjustment of windscreen washer nozzles
- Also suited to the adjustment of headlight washer nozzles
- With mounting clip for breast pocket
- Includes protective covers
- Aluminium

	Head Ø mm	Length mm	g
550.1023	11,0	150,0 - 590,0	60

Flexible magnet lifter

- Flexible shaft
- Two component handle
- Special tool steel

	Load capacity kg	Head Ø mm	Length mm	g
550.1025	1	15,0	510,0	185
550.1026	2	17,0	510,0	200
550.1027	3	19,0	510,0	200

CLAW GRIP

Flexible pick up tool

- Flexible
- Circular diameter max. 20.0 mm
- Stainless steel

	Ø mm	Length mm	g
550.1301	20	600,0	150

INSPECTION MIRRORS WITHOUT ILLUMINATION

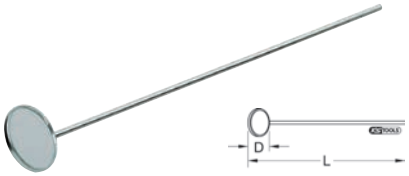
Search mirror with protective insulation

- Insulated handle to IEC 60900
- Insulated
- Chrome vanadium

	Ø mm	Length mm		
117.1630	22	175,0	1000V	20

Mechanics mirror

- For visual monitoring and troubleshooting
- Ideal for difficult to access areas
- Special tool steel



	D mm	L mm	
118.0086	12,0	130,0	4
118.0087	21,0	130,0	9
118.0088	27,0	130,0	16

Telescopic magnifying glass

- With telescopic function
- Single ball joint
- 360° revolving
- Impact proof acrylic glass
- Special tool steel

	Width mm	Height mm	Length mm	
550.1009	44,0	63,5	178,0 - 660,0	50

Telescopic mechanics mirror

- With telescopic function
- For visual monitoring and troubleshooting
- Double ball joint
- Head swiveling in all directions
- Clip for the breast pocket
- Ideal for difficult to access areas
- Special tool steel

	D mm	L mm	
550.1030	32,0	178 - 530	40

Telescopic inspection mirror

- With telescopic function
- For visual monitoring and troubleshooting
- Single ball joint
- Head swivels in all directions
- Impact resistant mirror
- Stainless steel

	Width mm	Height mm	Length mm	
550.1007	45,0	63,0	178,0 - 675,0	100

Telescopic inspection mirror

- With telescopic function
- For visual monitoring and troubleshooting
- Single ball joint
- Mirror out of stainless steel with plate-glass
- Stainless steel

	Width mm	Height mm	Length mm	
550.1019	57,0	63,0	178,0 - 630,0	100

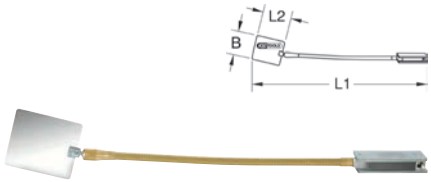
Telescopic inspection mirror

- With telescopic function
- For visual monitoring and troubleshooting
- Single ball joint
- Stainless steel mirror

	Width mm	Height mm	Length mm	
550.1021	57,0	95,0	178,0 - 630,0	100

Magnetic welding mirrors

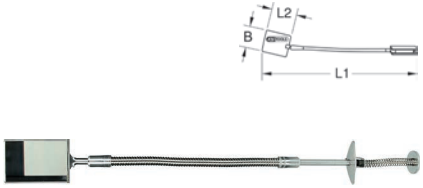
- Mirror chrome
- Flexible arm
- Special tool steel



	B mm	L1 mm	L2 mm	
903.6000	70,0	500,0	80,0	470

Flexible inspection mirror

- Flexible arm
- adjustable by pressing the button
- Special tool steel



	B mm	L1 mm	L2 mm	
500.7823	45,0	495,0	70,0	225

Telescopic set KS 1000

- With telescopic function
- Telescopic-Magnet up to 1.5 kg
- Magnet power raised 35% due to energy safety cap
- Telescopic-Inspection mirror, 45.0 x 63.0 mm
- Length 178,0-860,0 mm
- Special tool steel
- In durable plastic storage case

550.1102	2 pcs	Telescopic set KS 1000	280

consists of:

550.1007	Telescopic-Inspection mirror, L=178-675mm, 45x63mm	100
550.1002	Telescopic-Magnet holder up to 5,0 kg, 178 - 675 mm	80

INSPECTION MIRROR WITH LIGHTING

Flexible inspection lamp with magnet and mirror

- Ideal for very long network independent working
- Halogen lamp
- Flexible long shaft, 400 mm
- With optional attachable flexible mirror (20 x 35 mm)
- With optional clip-on light-flooded magnet
- Includes extension 500 mm
- Approx. 60 hours lamp duration
- Includes 3 x AA batteries
- Impact proof housing

	Length mm	Ø mm	Spare bulb	
550.1138	600,0	7,0	550.1188	215

HOOK TOOLS

Hook, 90° short, 180° short

- Ideal for removing and use of O rings and seals
- Special tool steel

550.1041	Hook, 90° short, 180° short	11

Hook, 45° long, 90° long

- Ideal for removing and use of O rings and seals
- Special tool steel

550.1042	Hook, 45° long, 90° long	11

Hook tool set

- Ideal for removing and use of O rings and seals
- Special tool steel

550.1040	2 pcs	Hook tool set	30

consists of:

550.1041	Hook, 90° short, 180° short bent	11
550.1042	Hook, 45° long, 90° long	11

Magnet and hook tool set

- Ideal for removing and use of O rings and seals
- With telescopic magnet attachment and replaceable hook
- Storage compartment in the handle for the various attachments
- Special tool steel

550.1080	6 pcs	Magnet and hook tool set	70

consists of:

550.1081	Basic unit	35
550.1082	Telescopic magnet attachment, 90 - 390 mm	13
550.1083	Hook attachment, straight, 75 mm	5
550.1084	Hook attachment, 90°, 75 mm	5
550.1085	Hook attachment, 120°, 75 mm	5
550.1086	Hook attachment, lateral bend, 75 mm	5

Hook, straight

- Ideal for removing and use of O rings and seals
- Two component handle
- Special tool steel

550.1046	60,0	27

Hook, 45°

- Ideal for removing and use of O rings and seals
- Two component handle
- Special tool steel

550.1047	60,0	27

Hook, 90°

- Ideal for removing and use of O rings and seals
- Two component handle
- Special tool steel

550.1048	60,0	27

Hook, 135°

- Ideal for removing and use of O rings and seals
- Two component handle
- Special tool steel

550.1049	60,0	27

Hook, straight

- Ideal for removing and use of O rings and seals
- Special tool steel

550.1071	215,0	91

Hook, 90°

- Ideal for removing and use of O rings and seals
- Special tool steel

550.1072	240,0	105

Hook, sickle

- Ideal for removing and use of O rings and seals
- Special tool steel

550.1073	185,0	88

Hook tool set

- Ideal for removing and use of O rings and seals
- Two component handle
- Special tool steel

550.1045	4 pcs	Hook tool set	120

consists of:

550.1046	Hook, straight	27
550.1047	Hook, 45° offset	27
550.1048	Hook, 90° offset	27
550.1049	Hook, 135° bent	27

Master hook tool set

- Ideal for removing and use of O rings and seals
- Special tool steel

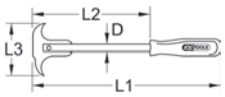
			g
550.1070	9 pcs	Master hook tool set	680

consists of:

		g
550.1046	Hook, straight	27
550.1047	Hook, 45° offset	27
550.1048	Hook, 90° offset	27
550.1049	Hook, 135° bent	27
550.1071	Hook, large, straight	91
550.1072	Hook, large, 90° bent	105
550.1073	Hook, large, sickle	88
550.1074	T hook, S form small, 120mm	42
550.1075	T hook, S form large, 165mm	96

Gasket ring dismantling tool

- sickle-shaped
- For the removal of washers
- Long durability through hardened leverage
- Universal usage
- One component handle
- Burnished
- Chrome vanadium



	L1 mm	L2 mm	L3 mm	D mm	g
550.1060	300,0	195,0	85,0	12,0	380

PRECISION SCREWDRIVER

4 in 1 Precision mechanical screwdriver for PH screws

- Reversible interchangeable bits
- Twist end cap
- Clip for the breast pocket
- Plastic handle
- Bits made of special steel

	Length mm		g
911.2171	130,0	PH000 - PH00 - PH0 - PH1	40

4 in 1 Precision mechanical screwdriver for PZ screws

- Reversible interchangeable bits
- Twist end cap
- Clip for the breast pocket
- Plastic handle
- Bits made of special steel

	Length mm		g
911.2172	130,0	PZ000 - PZ00 - PZ0 - PZ1	40

4 in 1 Precision mechanical screwdriver for slotted screws

- Reversible interchangeable bits
- Twist end cap
- Clip for the breast pocket
- Plastic handle
- Bits made of special steel

	Length mm		g
911.2173	130,0	1,5mm - 2,0mm - 2,5mm - 3,0mm	40

4 in 1 Precision mechanic screwdriver for Torx screws

- Reversible interchangeable bits
- Twist end cap
- Clip for the breast pocket
- Plastic handle
- Bits made of special steel

	Length mm		g
911.2174	130,0	T6 - T7 - T8 - T9	40

Precision screwdriver set

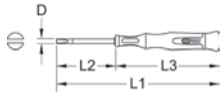
- Reversible interchangeable bits
- Twist end cap
- Clip for the breast pocket
- Plastic handle
- Bits made of special steel

			g
911.2175	4 pcs	Precision screwdriver set	150
1 x		PH000 - PH00 - PH0 - PH1	
1 x		PZ000 - PZ00 - PZ0 - PZ1	
1 x		1,5 - 2,0 - 2,5 - 3,0 mm	
1 x		T6 - T7 - T8 - T9	

ESD PRECISION MECHANICS SCREWDRIVER

Precision screwdriver for slotted screws

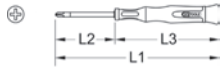
- Twist end cap
- Ergonomically shaped electronic screwdriver handle
- Two component handle
- Hardened blade
- Chrome finish with burnished tips
- Blade made of chrome vanadium



	D mm	D	L1 mm	L2 mm	L3 mm	g
500.7701	0,8		145,0	50,0	95,0	10
500.7141	1,0		145,0	50,0	95,0	10
500.7702	1,2		145,0	50,0	95,0	10
500.7108	1,4		145,0	50,0	95,0	10
500.7756	1,8		145,0	50,0	95,0	12
500.7109	2,0		145,0	50,0	95,0	15
500.7759	2,0		195,0	100,0	95,0	15
500.7110	2,4		145,0	50,0	95,0	20
500.7762	2,4		195,0	100,0	95,0	25
500.7111	3,0		145,0	50,0	95,0	20
500.7763	3,0		195,0	100,0	95,0	25
500.7764	3,0		245,0	150,0	95,0	32
500.7713	3,5		145,0	50,0	95,0	20
500.7142	4,0		145,0	50,0	95,0	20
500.7765	4,0		195,0	100,0	95,0	25
500.7766	4,0		245,0	150,0	95,0	32
500.7144		1/16"	145,0	50,0	95,0	10
500.7145		3/32"	145,0	50,0	95,0	10
500.7146		9/64"	145,0	50,0	95,0	20

Precision screwdriver for phillips screws PH

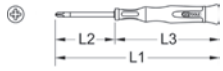
- Twist end cap
- Ergonomically shaped electronic screwdriver handle
- Two component handle
- Hardened blade
- Chrome finish with burnished tips
- Blade made of chrome vanadium



		Ø mm	L1 mm	L2 mm	L3 mm	g
500.7126	PH 000	1,6	145,0	50,0	95,0	10
500.7106	PH 00	2,0	145,0	50,0	95,0	15
500.7831	PH 00	2,0	170,0	75,0	95,0	23
500.7107	PH 0	2,4	145,0	50,0	95,0	20
500.7128	PH 1	3,0	145,0	50,0	95,0	20
500.7125	PH 1	3,5	145,0	50,0	95,0	20
500.7129	PH 1	4,0	145,0	50,0	95,0	20
500.7833	PH 1	4,0	170,0	75,0	95,0	18
500.7834	PH 1	4,0	245,0	150,0	95,0	35

Precision screwdriver for pozidriv screws PZ

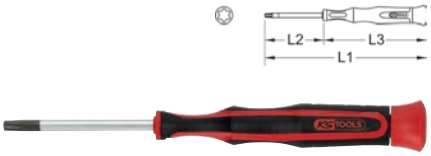
- Twist end cap
- Ergonomically shaped electronic screwdriver handle
- Two component handle
- Hardened blade
- Chrome finish with burnished tips
- Blade made of chrome vanadium



		Ø mm	L1 mm	L2 mm	L3 mm	g
500.7156	PZ 0	3,0	145,0	50,0	95,0	15
500.7157	PZ 1	4,0	145,0	50,0	95,0	15

Precision screwdriver for Torx screws

- Twist end cap
- Ergonomically shaped electronic screwdriver handle
- Two component handle
- Hardened blade
- Chrome finish with burnished tips
- Blade made of chrome vanadium



		L1 mm	L2 mm	L3 mm	
500.7726	T1	145,0	50,0	95,0	15
500.7727	T2	145,0	50,0	95,0	15
500.7728	T3	145,0	50,0	95,0	15
500.7729	T4	145,0	50,0	95,0	15
500.7140	T5	145,0	50,0	95,0	10
500.7112	T6	145,0	50,0	95,0	10
500.7113	T7	145,0	50,0	95,0	15
500.7114	T8	145,0	50,0	95,0	20
500.7115	T9	145,0	50,0	95,0	20
500.7116	T10	145,0	50,0	95,0	20
500.7117	T15	145,0	50,0	95,0	25
500.7124	T20	145,0	50,0	95,0	25

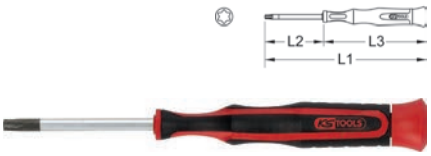
Precision screwdriver for Torx tamperproof screws

- Twist end cap
- Ergonomically shaped electronic screwdriver handle
- Two component handle
- Hardened blade
- Chrome finish with burnished tips
- Blade made of chrome vanadium

		L1 mm	L2 mm	L3 mm	
500.7151	TB7	145,0	50,0	95,0	20
500.7152	TB8	145,0	50,0	95,0	20
500.7153	TB9	145,0	50,0	95,0	20
500.7154	TB10	145,0	50,0	95,0	20
500.7155	TB15	145,0	50,0	95,0	25
500.7730	TB20	145,0	50,0	95,0	18

Precision screwdriver for Torx-PLUS screws

- Twist end cap
- Ergonomically shaped electronic screwdriver handle
- Two component handle
- Hardened blade
- Chrome finish with burnished tips
- Blade made of chrome vanadium



		L1 mm	L2 mm	L3 mm	
500.7813	IP4	145,0	50,0	95,0	20
500.7814	IP5	145,0	50,0	95,0	10
500.7815	IP6	145,0	50,0	95,0	20
500.7816	IP7	145,0	50,0	95,0	20
500.7817	IP8	145,0	50,0	95,0	20
500.7818	IP9	145,0	50,0	95,0	20
500.7819	IP10	145,0	50,0	95,0	20
500.7821	IP15	145,0	50,0	95,0	20
500.7822	IP20	145,0	50,0	95,0	20

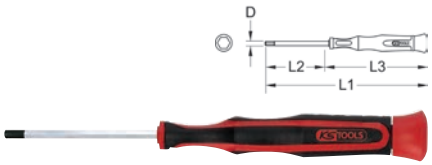
Precision screwdriver for Torx-PLUS screws with bore

- Twist end cap
- Ergonomically shaped electronic screwdriver handle
- Two component handle
- Hardened blade
- Chrome finish with burnished tips
- Blade made of chrome vanadium

		L1 mm	L2 mm	L3 mm	
500.7806	IPR1	145,0	50,0	95,0	10
500.7807	IPR2	145,0	50,0	95,0	10
500.7808	IPR3	145,0	50,0	95,0	10
500.7809	IPR4	145,0	50,0	95,0	10
500.7811	IPR5	145,0	50,0	95,0	10
500.7812	IPR6	145,0	50,0	95,0	10

Precision screwdriver for hexagon screws

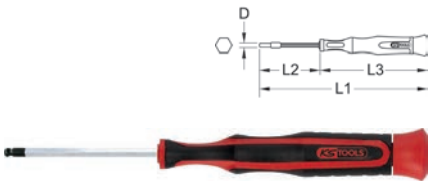
- Twist end cap
- Ergonomically shaped electronic screwdriver handle
- Two component handle
- Hardened blade
- Chrome finish with burnished tips
- Blade made of chrome vanadium



	D mm	D	L1 mm	L2 mm	L3 mm	
500.7721	0,7		145,0	50,0	95,0	10
500.7722	0,9		145,0	50,0	95,0	10
500.7723	1,3		145,0	50,0	95,0	10
500.7119	1,5		145,0	50,0	95,0	10
500.7120	2,0		145,0	50,0	95,0	10
500.7121	2,5		145,0	50,0	95,0	15
500.7122	3,0		145,0	50,0	95,0	20
500.7123	3,5		145,0	50,0	95,0	20
500.7718		0,05"	145,0	50,0	95,0	15
500.7147		1/16"	145,0	50,0	95,0	10
500.7724		5/64"	145,0	50,0	95,0	10
500.7148		3/32"	145,0	50,0	95,0	15
500.7725		7/64"	145,0	50,0	95,0	15
500.7149		1/8"	145,0	50,0	95,0	20

ESD precision mechanic screwdriver for hexagon socket screws - with ball head

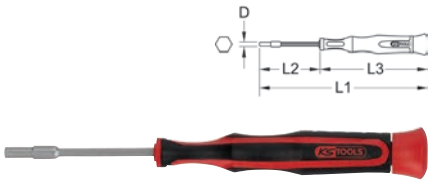
- Twist end cap
- Ergonomically shaped electronic screwdriver handle
- Two component handle
- Hardened blade
- Chrome finish with burnished tips
- Blade made of chrome vanadium



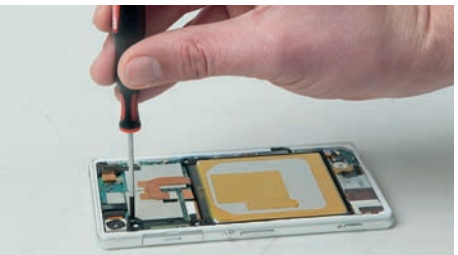
	D mm	D	L1 mm	L2 mm	L3 mm	
500.7779	1,3		145,0	50,0	95,0	14
500.7785	1,5		145,0	50,0	95,0	14
500.7786	2,0		145,0	50,0	95,0	15
500.7787	2,5		145,0	50,0	95,0	17
500.7788	3,0		145,0	50,0	95,0	19
500.7789		1/16"	145,0	50,0	95,0	14
500.7791		5/64"	145,0	50,0	95,0	15
500.7792		3/32"	145,0	50,0	95,0	16
500.7793		7/64"	145,0	50,0	95,0	19
500.7794		1/8"	145,0	50,0	95,0	19
500.7795		9/64"	145,0	50,0	95,0	20
500.7796		5/32"	145,0	50,0	95,0	20

Precision screwdriver for external hexagon screws

- Twist end cap
- Ergonomically shaped electronic screwdriver handle
- Two component handle
- Hardened blade
- Blades made from special steel



	D mm	D	L1 mm	L2 mm	L3 mm	
500.7731	1,5		165,0	75,0	90,0	10
500.7767	1,8		165,0	75,0	90,0	10
500.7130	2,0		165,0	75,0	90,0	10
500.7131	2,5		165,0	75,0	90,0	10
500.7132	3,0		165,0	75,0	90,0	15
500.7133	3,2		165,0	75,0	90,0	30
500.7134	3,5		165,0	75,0	90,0	30
500.7135	4,0		165,0	75,0	90,0	30
500.7733	4,5		165,0	75,0	90,0	22
500.7734	5,0		165,0	75,0	90,0	22
500.7735	5,5		165,0	75,0	90,0	25
500.7768	6,0		165,0	75,0	90,0	30
500.7769	7,0		165,0	75,0	90,0	30
500.7136		3/32"	165,0	75,0	90,0	20
500.7137		7/64"	165,0	75,0	90,0	20
500.7738		1/8"	165,0	75,0	90,0	22
500.7138		9/64"	165,0	75,0	90,0	30
500.7771		5/32"	165,0	75,0	90,0	20
500.7139		11/64"	165,0	75,0	90,0	30
500.7772		3/16"	165,0	75,0	90,0	20
500.7773		7/32"	165,0	75,0	90,0	20
500.7774		1/4"	165,0	75,0	90,0	20



PRECISION SCREWDRIVER SETS

Precision screwdriver set Torx

- Twist end cap
- Ergonomically shaped electronic screwdriver handle
- Two component handle
- Hardened blade
- Chrome finish with burnished tips
- Blade made of chrome vanadium
- In durable ABS storage case

500.7160	7 pcs	Precision screwdriver set Torx	100
7 x		T6 - T7 - T8 - T9 - T10 - T15 - T20	

Precision screwdriver set PH and slotted

- Twist end cap
- Ergonomically shaped electronic screwdriver handle
- Two component handle
- Hardened blade
- Chrome finish with burnished tips
- Blade made of chrome vanadium
- In durable ABS storage case

			g
500.7165	7 pcs	Precision screwdriver set PH and slotted	100
3 x		PH00 - PH0 - PH1	
4 x		1,4 - 2,0 - 2,4 - 3,0 mm	

Precision screwdriver set PH, slotted and Torx

- Twist end cap
- Ergonomically shaped electronic screwdriver handle
- Two component handle
- Hardened blade
- Chrome finish with burnished tips
- Blade made of chrome vanadium
- In durable plastic storage case

			g
500.7170	14 pcs	Precision screwdriver set PH, slotted and Torx	200
3 x		PH00 - PH0 - PH1	
4 x		1,4 - 2,0 - 2,4 - 3,0 mm	
7 x		T6 - T7 - T8 - T9 - T10 - T15 - T20	

Precision screwdriver set

- Twist end cap
- Ergonomically shaped electronic screwdriver handle
- Two component handle
- Hardened blade
- Chrome finish with burnished tips
- Blade made of chrome vanadium
- In durable plastic storage case

			kg
500.7150	37 pcs	Precision screwdriver set	1,80
6 x		PH000 - PH00 - PH0 x 3,0 - PH0 x 2,0 - PH1 x 3,5 - PH1 x 4,0	
7 x		1,0 - 2,0 - 3,0 - 4,0 mm - 1/16" - 3/32" - 9/64"	
2 x		T5 - T6	
7 x		1,5 - 2,0 - 2,5 - 3,0 - 1/16" - 3/32" - 1/8"	
10 x		2,0 - 2,5 - 3,0 - 3,2 - 3,5 - 4,0 - 3/32" - 7/64" - 9/64" - 1.1/64"	
5 x		TB7 - TB8 - TB9 - TB10 - TB15	

Precision tool set

- Electrical working
- Includes precision screwdrivers and tweezers
- Suitable for wire
- Serrated execution
- Induction-hardened precision cutting
- Self opening double spring
- Twist end cap
- Ergonomically shaped electronic screwdriver handle
- Hardened blade
- Chrome finish with burnished surface
- Two component handle
- Black chrome
- Blades made from special steel

			g
500.7180	10 pcs	Precision tool set	400
1 x		125 mm	
1 x		100 mm	
1 x		145 mm	
3 x		PH00 - PH0 - PH1	
4 x		1,4 - 2,0 - 2,4 - 3,0 mm	

Precision tool set

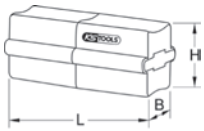
- Electrical working
- Includes precision screwdrivers and tweezers
- Suitable for wire
- Serrated execution
- Induction-hardened precision cutting
- Self opening double spring
- Twist end cap
- Ergonomically shaped electronic screwdriver handle
- Hardened blade
- Chrome finish with burnished surface
- Two component handle
- Black chrome
- Blades made from special steel

			kg
500.7190	21 pcs	Precision tool set	1,40
2 x		125 - 130 mm	
1 x		100 mm	
1 x		100 mm	
1 x		125 mm	
1 x		150 mm	
1 x		145 mm	
3 x		PH00 - PH0 - PH1	
4 x		1,4 - 2,0 - 2,4 - 3,0 mm	
7 x		T6 - T7 - T8 - T9 - T10 - T15 - T20	

MAGNETIZERS AND DEMAGNETIZERS

Magnetizer and demagnetizer

- Easy to use
- To magnetise by pulling the blade through
- To demagnetise by pulling the blade over the recess
- For screwdrivers, tweezers and similar tools made of steel
- Plastic housing

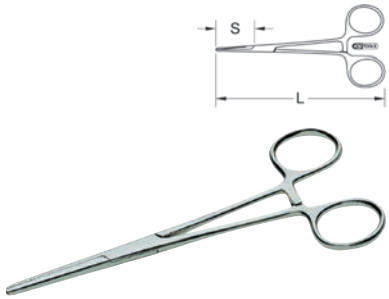


	B mm	H mm	L mm	g
550.1126	15,0	20,0	47,0	70

PRECISION PLIERS

Mounting clamp pliers

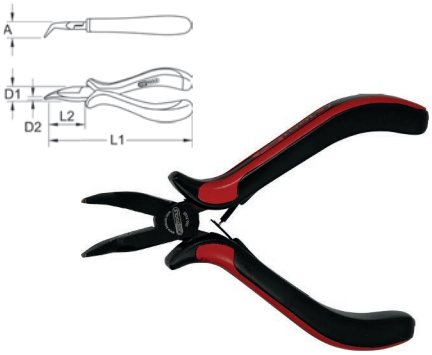
- 3 way adjustable locking
- Toothed gripping surfaces
- Anti glare - no annoying reflection
- Matt finish
- Stainless special steel



	L mm	S mm	g
500.7006	140,0	35,0	30
500.7007	160,0	40,0	40

Precision long nosed pliers, curved

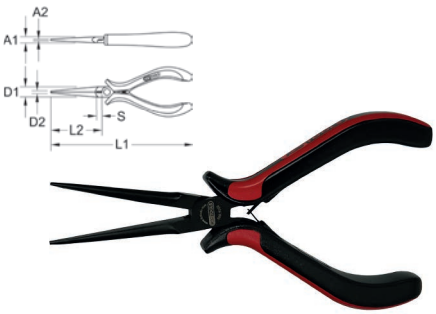
- Electrical working
- Suitable for wire
- 45° curved jaws
- Induction-hardened precision cutting
- Self opening double spring
- Two component handle
- Black chrome
- Special tool steel



	A mm	D1 mm	D2 mm	L1 mm	L2 mm	g
500.7022	12,0	18,0	7,0	130,0	33,0	80

Precision telephone pliers

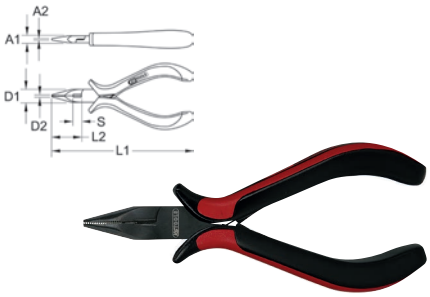
- Electrical working
- Suitable for wire
- Extra long jaws
- Induction-hardened precision cutting
- Self opening double spring
- Two component handle
- Black chrome
- Special tool steel



	A1 mm	A2 mm	D1 mm	D2 mm	L1 mm	L2 mm	S mm	g
500.7032	7,0	2,0	12,0	3,0	160,0	55,0	8,0	90

Precision telephone pliers

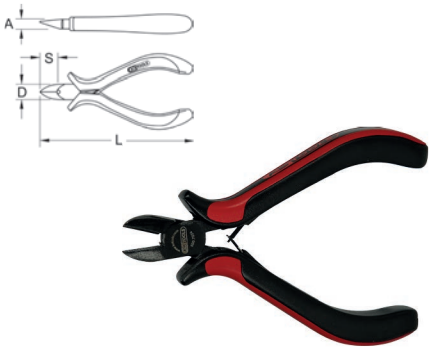
- Electrical working
- Suitable for wire
- Serrated execution
- Induction-hardened precision cutting
- Self opening double spring
- Two component handle
- Black chrome
- Special tool steel



	A1 mm	A2 mm	D1 mm	D2 mm	L1 mm	L2 mm	S mm	g
500.7021	7,0	2,0	12,0	3,0	130,0	29,0	8,0	80

Precision diagonal side cutter

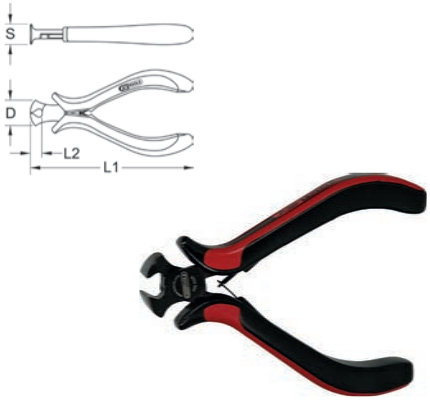
- Electrical working
- Suitable for wire
- Induction-hardened precision cutting
- Self opening double spring
- Two component handle
- Black chrome
- Special tool steel



	A mm	D mm	L mm	S mm	g
500.7024	7,0	13,0	120,0	15,0	80

Precision cutting pliers

- Electrical working
- Suitable for wire
- Induction-hardened precision cutting
- Self opening double spring
- Two component handle
- Black chrome
- Special tool steel



	D mm	L1 mm	L2 mm	S mm	g
500.7025	18,0	110,0	7,5	14,0	80

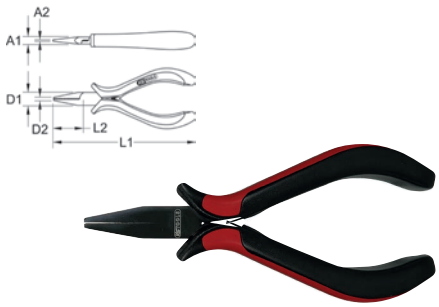
Precision combination pliers

- Electrical working
- Suitable for wire
- Induction-hardened precision cutting
- Self opening double spring
- Two component handle
- Black chrome
- Special tool steel

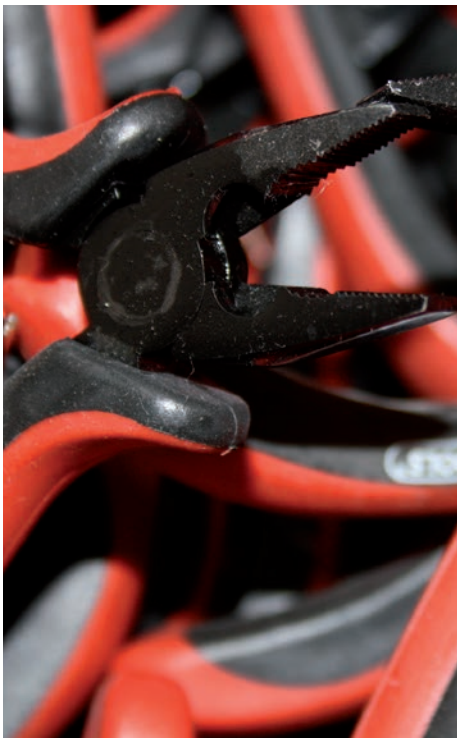
	A mm	D1 mm	D2 mm	L1 mm	L2 mm	S mm	g
500.7030	7,0	10,0	15,0	120,0	22,0	8,0	90

Precision flat pliers

- Electrical working
- Suitable for wire
- Induction-hardened precision cutting
- Self opening double spring
- Two component handle
- Black chrome
- Special tool steel



	A1 mm	A2 mm	D1 mm	D2 mm	L1 mm	L2 mm	g
500.7028	7,0	2,0	13,0	3,0	125,0	27,0	80



PRECISION PLIER SETS

Precision pliers set

- Electro static discharge - electrostatically protect
- Suitable for wire
- Serrated execution
- Induction-hardened precision cutting
- Self opening double spring
- Two component handle
- Black chrome
- Special tool steel

500.7020	5 pcs	Precision pliers set	420
1 x		130 mm	
1 x		120 mm	
1 x		110 mm	
1 x		120 mm	
1 x		160 mm	

Precision tool set

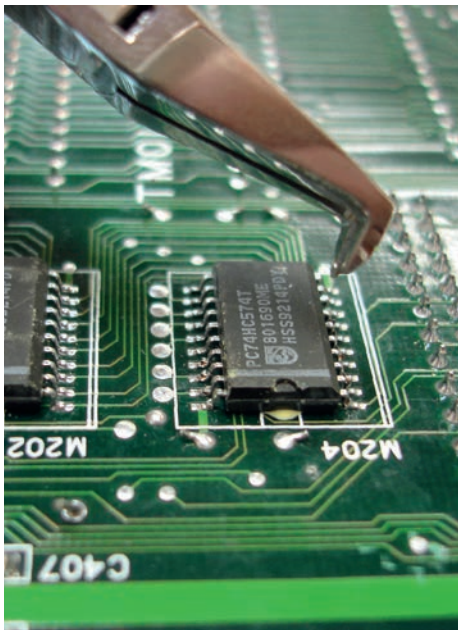
- Electrical working
- Includes precision screwdrivers and tweezers
- Suitable for wire
- Serrated execution
- Induction-hardened precision cutting
- Self opening double spring
- Twist end cap
- Ergonomically shaped electronic screwdriver handle
- Hardened blade
- Chrome finish with burnished surface
- Two component handle
- Black chrome
- Blades made from special steel

500.7180	10 pcs	Precision tool set	400
1 x		125 mm	
1 x		100 mm	
1 x		145 mm	
3 x		PH00 - PH0 - PH1	
4 x		1,4 - 2,0 - 2,4 - 3,0 mm	

Precision tool set

- Electrical working
- Includes precision screwdrivers and tweezers
- Suitable for wire
- Serrated execution
- Induction-hardened precision cutting
- Self opening double spring
- Twist end cap
- Ergonomically shaped electronic screwdriver handle
- Hardened blade
- Chrome finish with burnished surface
- Two component handle
- Black chrome
- Blades made from special steel

500.7190	21 pcs	Precision tool set	1,40
2 x		125 - 130 mm	
1 x		100 mm	
1 x		100 mm	
1 x		125 mm	
1 x		150 mm	
1 x		145 mm	
3 x		PH00 - PH0 - PH1	
4 x		1,4 - 2,0 - 2,4 - 3,0 mm	
7 x		T6 - T7 - T8 - T9 - T10 - T15 - T20	



ESD PRECISION PLIERS

Tweezers can be found in the VDE and general electrician tool kits section.

ESD long-nose pliers – straight – without cut

- Electrical working
- Suitable for wire
- Short, straight jaws
- Without cut
- Induction-hardened precision cutting
- Self opening double spring
- Two component handle
- Special tool steel

	A1 mm	A2 mm	D1 mm	D2 mm	L1 mm	L2 mm	
500.7064	6,5	1,0	10,0	2,0	130,0	23,0	62

ESD long-nose pliers – straight – with cut

- Electrical working
- Suitable for wire
- Short, straight jaws
- With cut
- Induction-hardened precision cutting
- Self opening double spring
- Two component handle
- Special tool steel

	A1 mm	A2 mm	D1 mm	D2 mm	L1 mm	L2 mm	
500.7065	6,5	1,0	10,0	2,0	130,0	23,0	62

ESD long-nose pliers – curved – without cut

- Electrical working
- Suitable for wire
- Short, curved jaws
- Without cut
- Induction-hardened precision cutting
- Self opening double spring
- Two component handle
- Special tool steel

	A mm	D1 mm	D2 mm	L1 mm	L2 mm	
500.7066	10,0	10,0	2,0	130,0	20,0	62

ESD long-nose pliers – curved – with cut

- Electrical working
- Suitable for wire
- Short, curved jaws
- With cut
- Induction-hardened precision cutting
- Self opening double spring
- Two component handle
- Special tool steel

	A mm	D1 mm	D2 mm	L1 mm	L2 mm	g
500.7067	10,0	10,0	2,0	130,0	20,0	62

ESD long-nose pliers – curved – without cut

- Electrical working
- Suitable for wire
- Long, curved jaws
- Without cut
- Induction-hardened precision cutting
- Self opening double spring
- Two component handle
- Special tool steel

	A mm	D1 mm	D2 mm	L1 mm	L2 mm	g
500.7070	14,0	10,0	2,0	140,0	26,0	62
500.7073	20,0	12,5	2,4	155,0	33,0	93

ESD flat pliers

- Electrical working
- Suitable for wire
- Short jaws
- Without cut
- Induction-hardened precision cutting
- Self opening double spring
- Two component handle
- Special tool steel

	A1 mm	A2 mm	D1 mm	D2 mm	L1 mm	L2 mm	g
500.7075	6,5	3,5	10,0	1,5	130,0	22,0	61

ESD long-nose pliers – straight – without cut

- Electrical working
- Suitable for wire
- Long, straight jaws
- Without cut
- Induction-hardened precision cutting
- Self opening double spring
- Two component handle
- Special tool steel

	A1 mm	A2 mm	D1 mm	D2 mm	L1 mm	L2 mm	g
500.7068	6,5	1,0	10,0	2,0	140,0	32,0	68
500.7077	7,5	1,2	12,5	2,4	155,0	40,0	93

ESD long-nose pliers – curved – with cut

- Electrical working
- Suitable for wire
- Long, curved jaws
- With cut
- Induction-hardened precision cutting
- Self opening double spring
- Two component handle
- Special tool steel

	A mm	D1 mm	D2 mm	L1 mm	L2 mm	g
500.7071	14,0	10,0	2,0	140,0	26,0	68

ESD round pliers

- Electrical working
- Suitable for wire
- Short jaws
- Without cut
- Induction-hardened precision cutting
- Self opening double spring
- Two component handle
- Special tool steel

	A1 mm	A2 mm	D1 mm	D2 mm	L1 mm	L2 mm	g
500.7076	6,0	1,0	10,0	2,0	130,0	20,0	62

ESD long-nose pliers – straight – with cut

- Electrical working
- Suitable for wire
- Long, straight jaws
- With cut
- Induction-hardened precision cutting
- Self opening double spring
- Two component handle
- Special tool steel

	A1 mm	A2 mm	D1 mm	D2 mm	L1 mm	L2 mm	g
500.7069	6,5	1,0	10,0	2,0	140,0	32,0	68
500.7072	7,5	1,2	12,5	2,4	155,0	40,0	93

ESD needle-nose pliers – straight – without cut

- Electrical working
- Suitable for wire
- Very fine, long jaws
- Without cut
- Induction-hardened precision cutting
- Self opening double spring
- Two component handle
- Special tool steel

	A1 mm	A2 mm	D1 mm	D2 mm	L1 mm	L2 mm	g
500.7074	7,5	1,2	11,0	2,0	150,0	37,0	93

ESD long-nose pliers – straight – without cut

- Electrical working
- Suitable for wire
- Short, straight jaws
- Ultra-fine precision tips for extremely fine work
- Without cut
- Induction-hardened precision cutting
- Self opening double spring
- Two component handle
- Special tool steel

	A1 mm	A2 mm	D1 mm	D2 mm	L1 mm	L2 mm	g
500.7078	6,5	0,1	10,0	0,2	130,0	22,0	62

ESD flat pliers

- Electrical working
- Suitable for wire
- Long jaws
- Without cut
- Induction-hardened precision cutting
- Self opening double spring
- Two component handle
- Special tool steel

	A1 mm	A2 mm	D1 mm	D2 mm	L1 mm	L2 mm	g
500.7079	7,5	4,5	12,0	1,5	150,0	40,0	82

ESD mini side cutters

- Electrical working
- Suitable for wire
- Induction-hardened precision cutting, 61-63 HRC
- Flexible steel: 0.8 mm/AWG 20
- Copper wire: 1.5 mm/AWG 15
- Short, pointed head with grooving
- With subtle control
- Self opening double spring
- Two component handle
- Special tool steel

	A mm	D mm	L mm	S mm	g
500.7082	6,0	9,0	120,0	9,0	55

ESD side cutters

- Electrical working
- Suitable for wire
- Induction-hardened precision cutting, 61-63 HRC
- Hard wire: 0.4 mm/AWG 26
- Flexible steel: 1.0 mm/AWG 18
- Copper wire: 1.5 mm/AWG 15
- Oval head with wire holder
- With control
- Self opening double spring
- Two component handle
- Special tool steel

	A mm	D mm	L mm	S mm	g
500.7085	7,5	11,0	125,0	13,0	75

ESD mini side cutters

- Electrical working
- Suitable for wire
- Induction-hardened precision cutting, 61-63 HRC
- Flexible steel: 0.8 mm/AWG 20
- Copper wire: 1.5 mm/AWG 15
- Small, oval head
- With subtle control
- Self opening double spring
- Two component handle
- Special tool steel

	A mm	D mm	L mm	S mm	g
500.7080	6,0	9,0	120,0	9,0	55

ESD side cutters

- Electrical working
- Suitable for wire
- Induction-hardened precision cutting, 61-63 HRC
- Hard wire: 0.4 mm/AWG 26
- Flexible steel: 1.0 mm/AWG 18
- Copper wire: 1.5 mm/AWG 15
- Oval head
- With control
- Self opening double spring
- Two component handle
- Special tool steel

	A mm	D mm	L mm	S mm	g
500.7083	7,5	11,0	125,0	13,0	70

ESD side cutters

- Electrical working
- Suitable for wire
- Induction-hardened precision cutting, 61-63 HRC
- Hard wire: 0.3 mm/AWG 28
- Flexible steel: 1.0 mm/AWG 18
- Copper wire: 1.5 mm/AWG 15
- Pointed head
- With control
- Self opening double spring
- Two component handle
- Special tool steel

	A mm	D mm	L mm	S mm	g
500.7086	7,5	11,0	125,0	13,0	62

ESD mini side cutters

- Electrical working
- Suitable for wire
- Induction-hardened precision cutting, 61-63 HRC
- Flexible steel: 0.8 mm/AWG 20
- Copper wire: 1.5 mm/AWG 15
- Small, pointed head
- With subtle control
- Self opening double spring
- Two component handle
- Special tool steel

	A mm	D mm	L mm	S mm	g
500.7081	6,0	9,0	120,0	9,0	55

ESD side cutters

- Electrical working
- Suitable for wire
- Induction-hardened precision cutting, 61-63 HRC
- Flexible steel: 1.0 mm/AWG 18
- Copper wire: 1.5 mm/AWG 15
- Oval head
- With subtle control
- Self opening double spring
- Two component handle
- Special tool steel

	A mm	D mm	L mm	S mm	g
500.7084	7,5	11,0	125,0	13,0	70

ESD side cutters

- Electrical working
- Suitable for wire
- Induction-hardened precision cutting, 61-63 HRC
- Flexible steel: 1.0 mm/AWG 18
- Copper wire: 1.5 mm/AWG 15
- Pointed head
- With subtle control
- Self opening double spring
- Two component handle
- Special tool steel

	A mm	D mm	L mm	S mm	g
500.7087	7,5	11,0	125,0	13,0	62

ESD side cutters

- Electrical working
- Suitable for wire
- Induction-hardened precision cutting, 61-63 HRC
- Hard wire: 0.7 mm/AWG 21
- Flexible steel: 1.0 mm/AWG 18
- Copper wire: 1.5 mm/AWG 15
- Oval, sturdy head
- With control
- Self opening double spring
- Two component handle
- Special tool steel

	A mm	D mm	L mm	S mm	g
500.7088	9,0	14,5	135,0	20,0	105

ESD carbide side cutters

- Electrical working
- Suitable for wire
- Hard metal cutting edge in plier head for the highest cutting performance
- Induction-hardened precision cutting, 84-86 HRA
- Oval head
- With special control only for glass fibre (e.g. Keviar)
- Self opening double spring
- Two component handle
- Special tool steel

	A mm	D mm	L mm	S mm	g
500.7091	7,5	11,0	125,0	10,0	62

ESD mini angled cutters

- Electrical working
- Suitable for wire
- Induction-hardened precision cutting, 61-63 HRC
- Hard wire: 0.4 mm/AWG 26
- Medium wire: 1.0 mm/AWG 18
- Flexible wire: 1.2 mm/AWG 16
- Straight head for working in small spaces
- With subtle control
- Self opening double spring
- Two component handle
- Special tool steel

	A mm	D mm	L mm	S mm	g
500.7094	6,5	10,0	120,0	12,0	64

ESD side cutters

- Electrical working
- Suitable for wire
- Induction-hardened precision cutting, 61-63 HRC
- Flexible steel: 1.5 mm/AWG 15
- Copper wire: 2.0 mm/AWG 12
- Pointed, sturdy head
- With subtle control
- Self opening double spring
- Two component handle
- Special tool steel

	A mm	D mm	L mm	S mm	g
500.7089	9,0	14,5	135,0	18,0	105

ESD carbide side cutters

- Electrical working
- Suitable for wire
- Hard metal cutting edge in plier head for the highest cutting performance
- Induction-hardened precision cutting, 84-86 HRA
- Piano wire: 0.4 mm/AWG 26
- Hard wire: 0.8 mm/AWG 20
- Flexible wire: 1.8 mm/AWG 13
- Pointed head with grooves for working in hard to access places
- With subtle control
- Self opening double spring
- Two component handle
- Special tool steel

	A mm	D mm	L mm	S mm	g
500.7092	7,5	11,0	125,0	10,0	62

ESD mini carbide oblique cutter

- Electrical working
- Suitable for wire
- Induction-hardened precision cutting, 84-86 HRA
- Piano wire: 0.6 mm/AWG 22
- Hard wire: 1.0 mm/AWG 18
- Flexible wire: 2.0 mm/AWG 12
- Straight head for working in small spaces
- With subtle control
- Self opening double spring
- Two component handle
- Special tool steel

	A mm	D mm	L mm	S mm	g
500.7095	6,5	10,0	120,0	12,0	62

ESD carbide side cutters

- Electrical working
- Suitable for wire
- Induction-hardened precision cutting, 84-86 HRA
- Piano wire: 0.6 mm/AWG 22
- Hard wire: 1.0 mm/AWG 18
- Flexible wire: 2.0 mm/AWG 12
- Oval head
- With control
- Self opening double spring
- Two component handle
- Special tool steel

	A mm	D mm	L mm	S mm	g
500.7090	7,5	11,0	125,0	10,0	62

ESD end cutters

- Electrical working
- Suitable for wire
- Induction-hardened precision cutting, 61-63 HRC
- Medium wire: 0.6 mm/AWG 22
- Flexible wire: 0.8 mm/AWG 20
- Slim jaws
- With subtle control
- Self opening double spring
- Two component handle
- Special tool steel

	A mm	D mm	L mm	S mm	g
500.7093	6,5	11,0	130,0	5,0	70

ESD mini angled cutters

- Electrical working
- Suitable for wire
- Induction-hardened precision cutting, 61-63 HRC
- Hard wire: 0.5 mm/AWG 24
- Medium wire: 1.2 mm/AWG 16
- Flexible wire: 1.6 mm/AWG 14
- Wide head with long cutters
- With subtle control
- Self opening double spring
- Two component handle
- Special tool steel

	A mm	D mm	L mm	S mm	g
500.7096	7,5	11,0	125,0	18,0	64

ESD mini side cutter

- Electrical working
- Suitable for wire
- Induction-hardened precision cutting, 61-63 HRC
- Medium wire: 0.6 mm/AWG 22
- Flexible wire: 0.8 mm/AWG 22
- Slim jaws with small cutting edges
- With subtle control
- Self opening double spring
- Two component handle
- Special tool steel

	D mm	L1 mm	L2 mm	S mm	g
500.7097	10,0	120,0	17,0	2,5	63

ESD side cutter

- Electrical working
- Suitable for wire
- Induction-hardened precision cutting, 61-63 HRC
- Hard wire: 0.5 mm/AWG 24
- Medium wire: 1.2 mm/AWG 16
- Flexible wire: 1.6 mm/AWG 14
- Wide head with long cutters
- With subtle control
- Self opening double spring
- Two component handle
- Special tool steel

	D mm	L1 mm	L2 mm	S mm	g
500.7098	11,0	125,0	6,0	15,0	74

ESD wire strippers

- Electrical working
- With internal brass adjusting screw
- Suitable for PVC, Teflon etc.
- Induction-hardened precision cutting
- Medium wire: 0,8 mm/AWG 20
- Self opening double spring
- Two component handle
- Special tool steel

	A mm	D1 mm	D2 mm	L1 mm	L2 mm	g
500.7099	12,0	32,0	18,0	140,0	50,0	90

ESD PRECISION PLIER SETS

ESD pliers service map

- Electro static discharge - electrostatically protect
- Suitable for wire
- Induction-hardened precision cutting
- Self opening double spring
- Two component handle
- Special tool steel

			g
500.7019	6 pcs	ESD pliers service map	620

1 x		140 mm
1 x		140 mm
1 x		130mm
1 x		120 mm
1 x		125 mm
1 x		120 mm

SOLDERING TIN SUCTION PUMP

Desoldering pump

- double seal
- Dirt-repellent

	Length mm	g
500.7780	200,0	580

GAS SOLDERING EQUIPMENT

Mini pocket soldering torch

- Gas operated micro soldering device up to 1,300 °C / 2,450 °F
- With piezo ignition
- Optimal for light soldering
- Filled with standard lighter gas / ISO butan gas
- Compact construction
- With safety lock

	Length mm	Height mm	g
960.1110	70,0	115,0	130

Mini pocket soldering torch

- Gas operated micro soldering device up to 1,300 °C / 2,450 °F
- With piezo ignition
- For melting, hard soldering, small soldering jobs
- Filled with standard lighter gas / ISO butan gas
- Compact construction
- With child-proofing and switch-off function

	Length mm	Height mm	g
960.1215	75,0	110,0	112

Small soldering torch

- Gas operated micro soldering device up to 1,300 °C / 2,450 °F
- With piezo ignition
- Optimal for fine soldering
- Filled with standard lighter gas / ISO butan gas
- With table stand

	Length mm	Height mm	g
960.1200	110,0	135,0	350

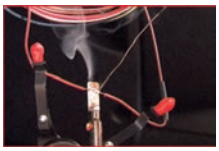
Small soldering torch with flame reflector

- Gas operated micro soldering device up to 1,300°C / 2,450°F
- With piezo ignition
- Optimal for fine soldering
- With shrink mirror/flame reflector
- Filled with standard lighter gas / ISO butan gas
- With table stand

	Length mm	Height mm	g
960.1210	110,0	135,0	350

Micro soldering terminal set

- Gas operated micro soldering device up to 1,300°C / 2,450°F
- without piezo ignition
- can be started with an external ignition source (e.g. with a lighter or mini pocket soldering device)
- Perfect for fine working
- Gas supply totally adjustable
- Filled with standard lighter gas / ISO butan gas
- Includes different attachments soldering wire and soldering sponge
- In durable plastic case



			g
960.1265	8 pcs	Micro soldering terminal set	210

consists of:

		g
960.1163	Soldering tip 3.5mm, chisel	3
960.1164	Soldering tip 4.5mm, diagonal	3
960.1165	Soldering tip knife	3
960.1167	Soldering sponge, round	12
960.1168	Solder wire coil, 95mm	25
960.1266	Soldering iron without Piezo ignition	50
960.1267	Soldering head,screwed-in soldering tips	12
960.1268	Soldering tip	3

Micro soldering terminal set

- Gas operated micro soldering device up to 1,300°C / 2,450°F
- With piezo ignition
- Perfect for fine working
- Gas supply totally adjustable
- Filled with standard lighter gas / ISO butan gas
- Includes different attachments soldering wire and soldering sponge
- In durable plastic case

			g
960.1160	11 pcs	Micro soldering terminal set	370

consists of:

		g
960.1161	Soldering iron with Piezo ignition	80
960.1162	Soldering head,screwed-in soldering tips	9
960.1163	Soldering tip 3.5mm, chisel	3
960.1164	Soldering tip 4.5mm, diagonal	3
960.1165	Soldering tip knife	3
960.1166	Flame adaptor	3
960.1167	Soldering sponge, round	12
960.1168	Solder wire coil, 95mm	25
960.1169	Protective cap for 960.1160	14
960.1170	Housing for additional adaptors, for 960.1160	7
960.1268	Soldering tip	3

ELECTRONIC SOLDERING UNITS

Soldering iron with bracket/holder

- Electrically-operated micro soldering device
- With ceramic heating core
- Copper bit for rapid heating and good heat transfer
- Supply cable with anti-kink device
- Includes holder

Technical data:

Working temperature:	0 - 600°C
Operational voltage:	220-240V AC, 50HZ
Connection cable length:	1,3 m
Protection class:	I

	Capacity	Length mm	g
960.1255	30 Watt	220,0	220
960.1130	60 Watt	230,0	225

PRECISION MECHANICS ACCESSORIES

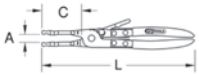
Precision mechanics lifter

- removes stuck components from printed circuit boards
- Two component handle
- through hardened blade
- Matt finish
- Chrome molybdenum

	L1 mm	L2 mm	g
500.7775	150,0	50,0	16

Soldering wire pliers

- For the safe fixing of braded wire
- Prevents kinking of the solder connection
- The locking device of the pliers means that these can be stored so that both hands are free for soldering
- No more burning fingers
- Slim design for hard-to-access areas
- Adjustable arm for optimal application
- With self opening internal spring
- Includes locking mechanism
- With PVC dipped handle
- Chrome molybdenum

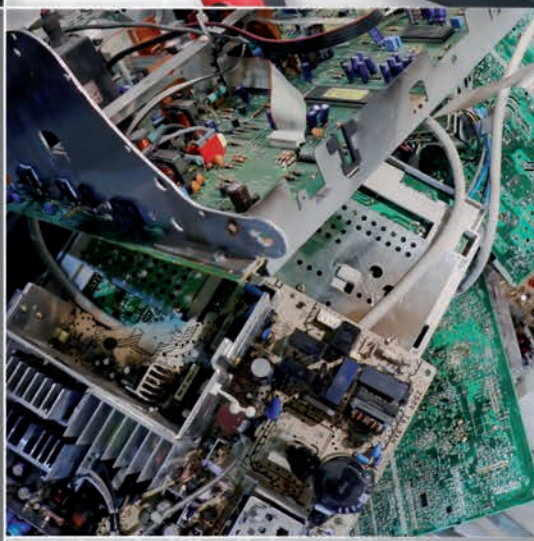


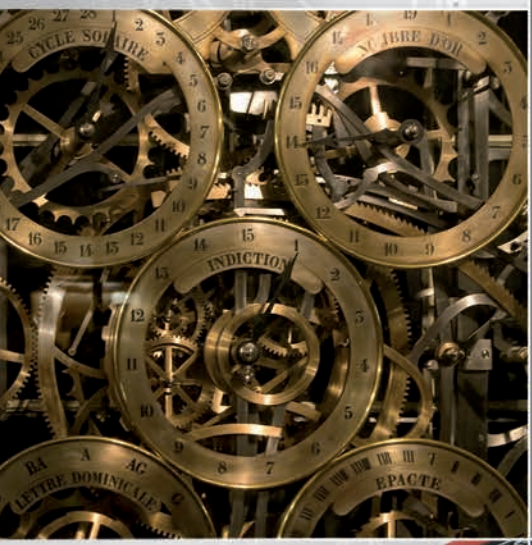
	A mm	C mm	L mm	g
115.1052	9-74	65,0	245,0	260

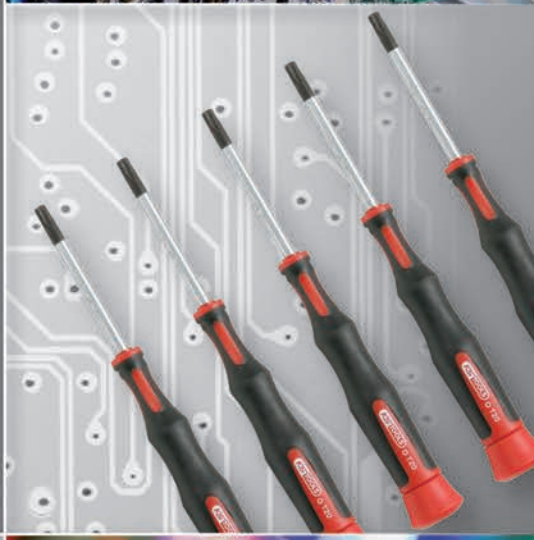
KS TOOLS®

Innovation is
our mission!

PRECISION TOOLS





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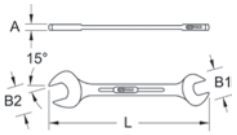
NON SPARKING OPEN ENDED SPANNER

BRONZE*plus* double open ended spanner

- In accordance to DIN 895 / ISO 3318 / ISO 1085
- Jaw 15° offset
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	mm	L mm	A mm	B1 mm	B2 mm	kg
963.7005	6x7	125,0	6,0	15,0	17,0	0,03
963.7006	6x8	125,0	6,0	15,0	17,0	0,03
963.7007	7x8	125,0	6,0	19,0	22,0	0,03
963.7008	7x9	125,0	6,0	19,0	22,0	0,04
963.7009	8x9	125,0	6,0	19,0	22,0	0,04
963.7010	8x10	125,0	6,0	19,0	22,0	0,06
963.7011	9x10	125,0	6,0	19,0	22,0	0,06
963.7012	9x11	140,0	7,0	22,0	27,0	0,09
963.7013	10x11	140,0	7,0	22,0	27,0	0,09
963.7014	10x12	140,0	7,0	22,0	27,0	0,06
963.7015	10x13	140,0	7,0	22,0	27,0	0,08
963.7016	10x14	160,0	7,5	27,0	30,0	0,18
963.7017	11x13	160,0	7,5	27,0	30,0	0,18
963.7018	11x14	160,0	7,5	27,0	30,0	0,18
963.7019	12x13	160,0	7,5	27,0	30,0	0,18
963.7020	12x14	160,0	7,5	27,0	30,0	0,17
963.7021	16x15	160,0	7,5	27,0	30,0	0,17
963.0045	13x17	140,0	9,5	30,0	36,0	0,11
963.7022	14x15	200,0	8,0	30,0	36,0	0,11
963.7023	14x16	200,0	8,0	30,0	36,0	0,22
963.7024	14x17	200,0	8,0	30,0	36,0	0,22
963.7025	16x17	200,0	8,0	35,0	38,0	0,21
963.7026	16x18	200,0	8,0	35,0	38,0	0,21
963.7027	17x19	225,0	10,0	35,0	38,0	0,35
963.0046	17x21	190,0	10,0	39,0	44,0	0,19
963.7028	17x22	225,0	10,0	39,0	44,0	0,32
963.7029	18x19	225,0	10,0	39,0	44,0	0,32
963.7030	18x20	225,0	10,0	39,0	44,0	0,31
963.7031	18x21	225,0	10,0	39,0	44,0	0,30
963.0047	19x21	190,0	10,0	39,0	44,0	0,21
963.7032	19x22	240,0	11,0	39,0	44,0	0,44
963.7033	19x24	240,0	11,0	44,0	48,0	0,42
963.7034	20x22	240,0	11,0	44,0	48,0	0,44
963.7035	21x23	240,0	11,0	44,0	48,0	0,42
963.7036	22x24	240,0	11,0	44,0	48,0	0,42
963.7037	22x27	270,0	12,0	48,0	54,0	0,73
963.7038	23x26	270,0	12,0	48,0	54,0	0,73
963.7039	24x26	270,0	12,0	48,0	54,0	0,73
963.7040	24x27	270,0	12,0	48,0	54,0	0,73
963.7041	24x30	270,0	13,0	54,0	60,0	0,70
963.7042	25x28	270,0	13,0	54,0	60,0	0,70
963.7043	26x29	270,0	13,0	54,0	60,0	0,70
963.0048	26x32	260,0	14,0	59,0	62,0	0,47
963.7044	27x29	300,0	13,0	54,0	60,0	0,81
963.7045	27x30	300,0	13,0	54,0	60,0	0,80
963.7046	27x32	300,0	14,0	59,0	62,0	0,80
963.7047	30x32	300,0	14,0	59,0	62,0	0,78
963.7048	30x34	320,0	16,0	70,0	75,0	1,24
963.7049	30x36	320,0	16,0	70,0	75,0	1,22
963.7050	32x34	320,0	16,0	70,0	75,0	1,20
963.7051	32x36	320,0	16,0	70,0	75,0	1,14
963.7052	34x36	320,0	16,0	70,0	75,0	1,10
963.7053	35x38	370,0	16,0	75,0	88,0	1,48
963.7054	36x41	370,0	16,0	75,0	88,0	1,48
963.7055	41x46	370,0	18,0	85,0	100,0	1,45
963.7056	46x50	390,0	19,0	95,0	105,0	1,40
963.7057	50x55	440,0	20,0	100,0	115,0	1,70
963.7058	50x60	440,0	22,0	110,0	125,0	1,70
963.7059	55x60	470,0	22,0	110,0	125,0	1,80
963.7060	60x65	470,0	22,0	125,0	135,0	1,80
963.7061	65x70	630,0	24,0	130,0	145,0	3,50
963.7062	70x80	630,0	24,0	140,0	155,0	3,40
963.7063	75x80	630,0	24,0	150,0	165,0	3,30
963.7065	7/32x1/4"	125,0	6,0	15,0	17,0	0,03
963.7066	1/4x5/16"	125,0	6,0	15,0	17,0	0,03
963.7067	5/16x3/8"	125,0	6,0	19,0	22,0	0,06
963.7068	3/8x7/16"	140,0	7,0	22,0	27,0	0,09
963.7069	7/16x1/2"	140,0	7,0	22,0	27,0	0,04
963.7070	1/2x5/8"	160,0	7,5	27,0	30,0	0,17
963.7071	1/2x9/16"	160,0	7,5	27,0	30,0	0,17
963.7072	1/2x11/16"	200,0	8,0	30,0	36,0	0,22
963.7073	9/16x5/8"	200,0	8,0	30,0	36,0	0,22
963.7074	9/16x3/4"	200,0	8,0	30,0	38,0	0,22
963.7075	19/32x11/16"	200,0	8,0	35,0	38,0	0,22
963.7076	19/32x25/32"	200,0	8,0	35,0	38,0	0,22
963.7077	5/8x11/16"	200,0	8,0	35,0	38,0	0,20
963.7078	5/8x3/4"	225,0	10,0	39,0	44,0	0,31
963.0052	11/16x3/4"	175,0	9,5	39,0	44,0	0,15
963.7079	11/16x25/32"	225,0	10,0	39,0	44,0	0,30
963.7080	11/16x7/8"	225,0	10,0	39,0	44,0	0,30
963.7082	3/4x25/32"	225,0	10,0	39,0	44,0	0,30
963.7083	3/4x13/16"	225,0	10,0	39,0	44,0	0,31
963.7084	3/4x7/8"	225,0	10,0	39,0	44,0	0,31
963.7085	25/32x13/16"	225,0	10,0	39,0	44,0	0,30
963.7086	25/32x7/8"	225,0	10,0	39,0	44,0	0,30
963.7087	13/16x7/8"	225,0	10,0	39,0	44,0	0,30
963.7088	7/8x15/16"	225,0	10,0	39,0	44,0	0,30
963.7089	7/8x31/32"	240,0	10,0	44,0	48,0	0,40
963.7090	7/8x1"	240,0	10,0	44,0	48,0	0,40
963.7091	7/8x1.1/16"	270,0	12,0	48,0	54,0	0,72
963.7092	15/16x1"	270,0	12,0	48,0	54,0	0,72
963.7093	15/16x1.1/16"	270,0	12,0	48,0	54,0	0,72
963.0053	1/1.1/16"	235,0	12,0	48,0	54,0	0,35
963.7094	1x1.1/8"	270,0	12,0	48,0	54,0	0,70
963.7095	1x1.5/16"	300,0	14,0	59,0	62,0	0,75
963.0054	1.1/16x1.1/8"	245,0	13,0	48,0	54,0	0,49
963.7096	1.1/16x1.1/4"	300,0	14,0	59,0	62,0	0,75
963.7098	1.1/16x1.7/16"	320,0	16,0	70,0	75,0	1,22
963.0055	1.1/8x1.3/16"	260,0	14,0	59,0	62,0	0,60
963.7097	1.1/8x1.5/16"	300,0	14,0	59,0	62,0	0,75
963.7099	1.1/8x1.1/2"	320,0	16,0	70,0	75,0	1,15
963.0056	1.3/16x1.1/4"	260,0	14,0	75,0	88,0	0,61
963.7100	1.1/4x1.3/8"	320,0	16,0	70,0	75,0	1,15
963.7101	1.1/4x1.7/16"	320,0	16,0	70,0	75,0	1,15
963.7102	1.5/16x1.1/2"	370,0	16,0	75,0	88,0	1,48
963.7103	1.1/4x1.5/8"	370,0	16,0	75,0	88,0	1,40
963.7104	1.3/8x1.1/2"	370,0	16,0	75,0	88,0	1,40
963.7105	1.7/16x1.5/8"	370,0	16,0	75,0	88,0	1,40
963.7106	1.1/2x1.11/16"	370,0	16,0	75,0	88,0	1,40
963.7107	1.5/8x1.1/4"	370,0	16,0	75,0	88,0	1,40
963.7108	1.5/8x1.3/4"	370,0	16,0	75,0	88,0	1,35
963.7109	1.11/16x1.7/8"	370,0	18,0	85,0	100,0	1,35
963.7110	1.11/16x2"	390,0	19,0	95,0	105,0	1,70
963.7111	1.13/16x2"	390,0	19,0	95,0	105,0	1,70
963.7112	1.3/4x2.1/16"	390,0	19,0	95,0	105,0	1,70
963.7113	2x2.3/16"	440,0	20,0	100,0	115,0	1,70
963.7114	2x2.5/16"	440,0	20,0	100,0	115,0	1,70
963.7115	2.3/16x2.3/8"	470,0	22,0	110,0	125,0	1,80
963.7116	2.1/4x2.3/8"	470,0	22,0	110,0	125,0	1,80

BRONZE*plus* double open ended spanner set

- In accordance to DIN 895
- Jaw 15° offset
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

			kg
963.7064	12 pcs	6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17 - 18x19 - 20x22 - 21x23 - 24x26 - 25x28 - 30x32 mm	3,50
963.7117	8 pcs	1/4x5/16 - 3/8x7/16 - 7/16x1/2 - 1/2x9/16 - 9/16x5/8 - 5/8x11/16 - 3/4x7/8 - 15/16"x1"	1,70

BRONZE*plus* Double open ended spanner

- Jaw 15° and 75° offset
- Both jaws the same size
- Extra flat heads
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

	mm	A mm	B mm	L mm	g
963.7118	4	6,0	12,0	70,0	30
963.7119	4,5	6,0	12,0	70,0	30
963.7120	5	6,0	15,0	78,0	30
963.7121	5,5	6,0	15,0	78,0	10
963.7122	6	6,0	15,0	78,0	10
963.7123	7	6,0	19,0	91,0	10
963.7124	8	6,0	19,0	96,0	50
963.7125	9	6,0	22,0	103,0	60
963.7126	10	6,0	22,0	105,0	20
963.7127	11	7,0	25,0	116,0	20
963.7128	12	7,0	25,0	116,0	80
963.7129	13	7,0	30,0	131,0	110
963.7130	14	8,0	30,0	131,0	110

BRONZE*plus* Double open ended spanner-set

- Jaw 15° and 75° offset
- Both jaws the same size
- Extra flat heads
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

			g
963.7131	10 pcs	5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm	180

BRONZE*plus* Double open ended spanner

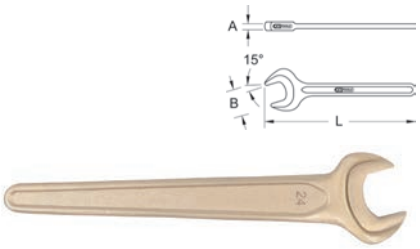
- Jaw 15° offset
- Extra flat heads
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

	mm	A mm	B1 mm	B2 mm	L mm	g
963.7132	3x3,5	5,0	9,0	12,0	50,0	20
963.7133	4x4,5	5,0	12,0	14,0	60,0	20
963.7134	5x5,5	6,0	12,0	14,0	70,0	20
963.7135	6x7	6,0	14,0	16,0	80,0	30
963.7136	8x9	6,0	17,0	20,0	90,0	10
963.7137	10x11	6,0	20,0	22,0	100,0	60

		A mm	B1 mm	B2 mm	L mm	g
963.7138	5/32x3/16”	5,0	12,0	14,0	60,0	20
963.7139	3/16x7/32”	6,0	12,0	14,0	70,0	20
963.7140	1/4x9/32”	6,0	14,0	16,0	80,0	30
963.7141	1/4x5/16”	6,0	14,0	16,0	80,0	30
963.7142	5/16x11/32”	6,0	17,0	20,0	90,0	10
963.7143	5/16x3/18”	6,0	17,0	20,0	90,0	10
963.7144	5/16x13/32”	6,0	20,0	22,0	100,0	40
963.7145	3/8x7/16”	6,0	20,0	22,0	100,0	60

BRONZE*plus* open ended spanner

- In accordance to DIN 894 / ISO 3380
- Jaw 15° offset
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	mm	A mm	B mm	L mm	kg
963.7146	6	6,0	21,0	90,0	0,05
963.7147	7	6,0	21,0	90,0	0,05
963.7148	8	6,0	21,0	90,0	0,05
963.7149	9	6,0	21,0	90,0	0,05
963.7150	10	7,0	28,0	100,0	0,06
963.7151	11	7,0	28,0	100,0	0,08
963.7152	12	7,0	33,0	140,0	0,07
963.7153	13	7,0	33,0	140,0	0,04
963.7154	14	8,0	40,0	165,0	0,08
963.7155	15	8,0	40,0	145,0	0,12
963.7156	16	8,0	40,0	165,0	0,07
963.7157	17	8,0	40,0	165,0	0,07
963.7158	18	8,0	40,0	165,0	0,07
963.7159	19	10,0	44,0	190,0	0,10
963.7160	20	10,0	44,0	190,0	0,14
963.7161	21	12,0	46,0	205,0	0,14
963.7162	22	12,0	46,0	205,0	0,13
963.7163	23	14,0	52,0	220,0	0,17
963.7164	24	14,0	52,0	220,0	0,17
963.7165	25	14,0	57,0	220,0	0,16
963.7166	26	14,0	57,0	220,0	0,16
963.7167	27	14,0	57,0	220,0	0,15
963.7168	28	15,0	63,0	250,0	0,27
963.7169	29	15,0	63,0	250,0	0,26
963.7170	30	15,0	63,0	250,0	0,25
963.7171	32	16,0	69,0	285,0	0,34
963.7172	33	16,0	69,0	285,0	0,34
963.7173	34	17,0	75,0	285,0	0,32
963.7174	35	17,0	75,0	285,0	0,32
963.7175	36	17,0	75,0	285,0	0,30
963.7176	37	17,0	75,0	285,0	0,30
963.7177	38	18,0	86,0	330,0	0,54
963.7178	41	18,0	86,0	330,0	0,52
963.7179	42	18,0	86,0	330,0	0,50
963.7180	46	21,0	95,0	360,0	0,65
963.7181	47	21,0	95,0	360,0	0,63
963.7182	50	22,0	105,0	440,0	1,10
963.7183	52	22,0	105,0	440,0	1,10
963.7184	54	23,0	117,0	440,0	1,05
963.7185	55	23,0	117,0	440,0	1,05
963.7186	56	23,0	117,0	440,0	1,00
963.7187	58	23,0	125,0	480,0	2,00
963.7188	60	23,0	125,0	480,0	1,95
963.7189	63	24,0	135,0	520,0	1,70
963.7190	65	24,0	135,0	520,0	1,70
963.7191	67	25,0	145,0	520,0	1,70
963.7192	70	25,0	145,0	540,0	1,90
963.7193	71	25,0	145,0	540,0	1,90
963.7194	75	25,0	155,0	540,0	1,80
963.7195	77	25,0	155,0	540,0	1,80

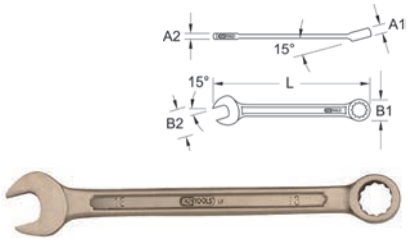
	mm	A mm	B mm	L mm	kg
963.7196	80	27,0	165,0	630,0	2,90
963.7197	82	27,0	165,0	630,0	2,80
963.7198	85	29,0	175,0	680,0	3,40
963.7199	88	30,0	185,0	680,0	3,30
963.7200	90	30,0	185,0	680,0	3,20
963.7201	94	32,0	195,0	830,0	5,00
963.7202	95	32,0	195,0	830,0	4,80
963.7203	100	32,0	209,0	800,0	5,90
963.7204	105	33,0	210,0	850,0	8,90
963.7205	110	33,0	230,0	900,0	9,00
963.7206	115	33,0	240,0	950,0	9,30
963.7207	120	35,0	245,0	990,0	9,60
963.7208	125	35,0	250,0	1000,0	8,30
963.7209	130	35,0	270,0	1000,0	8,30
963.7210	135	35,0	275,0	1000,0	8,30

		A mm	B mm	L mm	kg
963.7211	1/4”	6,0	21,0	90,0	0,05
963.7212	5/16”	6,0	21,0	90,0	0,05
963.7213	11/32”	6,0	21,0	90,0	0,05
963.7214	3/8”	6,0	21,0	90,0	0,05
963.7215	13/32”	7,0	28,0	100,0	0,06
963.7216	7/16”	7,0	28,0	100,0	0,08
963.7217	1/2”	7,0	33,0	140,0	0,04
963.7218	9/16”	8,0	40,0	165,0	0,08
963.7219	19/32”	8,0	40,0	165,0	0,12
963.7220	5/8”	8,0	40,0	165,0	0,07
963.7221	11/16”	8,0	40,0	165,0	0,07
963.7222	3/4”	10,0	44,0	190,0	0,10
963.7223	25/32”	10,0	44,0	190,0	0,14
963.7224	13/16”	12,0	46,0	205,0	0,14
963.7225	7/8”	12,0	46,0	205,0	0,13
963.7226	15/16”	14,0	57,0	220,0	0,17
963.7227	31/32”	14,0	57,0	220,0	0,17
963.7228	1”	14,0	57,0	220,0	0,16
963.7229	1.1/16”	14,0	57,0	220,0	0,15
963.7230	1.1/8”	15,0	63,0	250,0	0,27
963.7231	1.3/16”	15,0	63,0	250,0	0,25
963.7232	1.1/4”	16,0	69,0	285,0	0,34
963.7233	1.5/16”	16,0	69,0	285,0	0,34
963.7234	1.3/8”	17,0	75,0	285,0	0,32
963.7235	1.7/16”	17,0	75,0	285,0	0,30
963.7236	1.1/2”	18,0	86,0	330,0	0,54
963.7237	1.9/16”	18,0	86,0	330,0	0,52
963.7238	1.5/8”	18,0	86,0	330,0	0,52
963.7239	1.11/16”	18,0	86,0	330,0	0,50
963.7240	1.3/4”	21,0	95,0	360,0	0,65
963.7241	1.13/16”	21,0	95,0	360,0	0,65
963.7242	1.7/8”	21,0	95,0	360,0	0,63
963.7243	2”	22,0	105,0	440,0	1,10
963.7244	2.1/16”	22,0	105,0	440,0	1,10
963.7245	2.1/8”	22,0	105,0	440,0	1,05
963.7246	2.3/16”	22,0	105,0	440,0	1,05
963.7247	2.1/4”	23,0	125,0	480,0	1,00
963.7248	2.5/16”	23,0	125,0	480,0	2,00
963.7249	2.3/8”	23,0	125,0	520,0	2,00
963.7250	2.7/16”	24,0	135,0	520,0	1,70
963.7251	2.1/2”	24,0	135,0	520,0	1,70
963.7252	2.9/16”	24,0	135,0	520,0	1,70
963.7253	2.5/8”	24,0	135,0	520,0	1,70
963.7254	2.3/4”	25,0	145,0	540,0	1,90
963.7255	2.13/16”	25,0	145,0	540,0	1,90
963.7256	2.15/16”	25,0	155,0	540,0	1,90
963.7257	3”	25,0	155,0	540,0	1,80
963.7258	3.1/8”	27,0	165,0	630,0	2,90
963.7259	3.1/4”	27,0	165,0	630,0	2,80
963.7260	3.3/8”	30,0	185,0	680,0	3,40
963.7261	3.1/2”	30,0	185,0	680,0	3,30
963.7262	3.5/8”	30,0	185,0	680,0	3,20
963.7263	3.3/4”	32,0	195,0	830,0	5,00
963.7264	3.7/8”	32,0	195,0	830,0	4,80

NON SPARKING COMBINATION SPANNER

BRONZE*plus* combination spanner, offset

- FlankTraction profile
- DIN 3113 Form A / ISO 3318 / ISO 7738
- Jaw 15° offset
- Ring head 15° offset
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	mm	A1 mm	A2 mm	B1 mm	B2 mm	L mm	kg
963.7265	6	6,0	5,0	11,0	20,0	130,0	0,05
963.7266	7	6,0	5,0	11,0	20,0	130,0	0,03
963.7267	8	7,0	6,0	15,0	17,0	135,0	0,03
963.7268	9	7,0	6,0	18,0	22,0	150,0	0,05
963.7269	10	7,0	6,0	18,0	22,0	150,0	0,05
963.7270	11	7,0	6,0	18,0	22,0	150,0	0,09
963.7271	12	9,0	7,0	20,0	25,0	190,0	0,17
963.7272	13	10,0	7,0	22,0	32,0	190,0	0,10
963.7273	14	10,0	7,0	22,0	32,0	190,0	0,16
963.7274	15	11,0	8,0	27,0	34,0	210,0	0,23
963.7275	16	11,0	8,0	27,0	34,0	210,0	0,23
963.7276	17	11,0	8,0	27,0	34,0	210,0	0,22
963.7277	18	13,0	9,0	31,0	40,0	230,0	0,33
963.7278	19	13,0	9,0	31,0	40,0	230,0	0,33
963.7279	20	13,0	9,0	31,0	40,0	230,0	0,26
963.7280	21	14,0	9,0	36,0	43,0	250,0	0,36
963.7281	22	14,0	9,0	36,0	43,0	250,0	0,24
963.7282	23	14,0	9,0	36,0	43,0	250,0	0,35
963.7283	24	15,0	10,0	38,0	48,0	270,0	0,50
963.7284	25	15,0	10,0	38,0	48,0	270,0	0,45
963.7285	26	15,0	10,0	38,0	48,0	270,0	0,47
963.7286	27	17,0	13,0	43,0	55,0	280,0	0,43
963.7287	28	17,0	13,0	43,0	55,0	280,0	0,68
963.7288	29	17,0	13,0	43,0	55,0	280,0	0,63
963.7289	30	20,0	13,0	49,0	60,0	300,0	0,73
963.7290	32	22,0	14,0	53,0	64,0	300,0	0,65
963.7291	34	22,0	14,0	53,0	64,0	320,0	0,95
963.7292	36	22,0	14,0	54,0	72,0	330,0	0,93
963.7293	38	23,0	16,0	58,0	82,0	400,0	2,15
963.7294	41	24,0	16,0	61,0	87,0	410,0	2,00
963.7295	46	24,0	18,0	67,0	95,0	410,0	1,90
963.7296	50	27,0	18,0	75,0	100,0	540,0	3,40
963.7297	55	27,0	22,0	90,0	105,0	520,0	3,50
963.7298	60	32,0	27,0	92,0	125,0	515,0	3,30
963.7299	65	34,0	28,0	95,0	140,0	500,0	3,20
963.7300	70	35,0	28,0	100,0	145,0	510,0	3,80
963.7301	75	35,0	29,0	105,0	157,0	680,0	3,90
963.7302	80	36,0	29,0	112,0	165,0	680,0	4,00

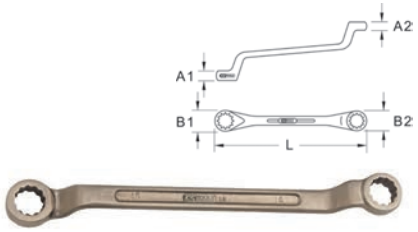
		A1 mm	A2 mm	B1 mm	B2 mm	L mm	kg
963.7307	1/4”	7,0	6,0	15,0	17,0	135,0	0,03
963.7308	5/16”	7,0	6,0	15,0	17,0	135,0	0,03
963.7309	11/32”	7,0	6,0	18,0	22,0	150,0	0,06
963.7310	3/8”	7,0	6,0	18,0	22,0	150,0	0,06
963.7311	7/16”	7,0	6,0	18,0	22,0	150,0	0,06
963.7312	1/2”	10,0	7,0	22,0	32,0	190,0	0,11
963.7313	9/16”	10,0	7,0	22,0	32,0	190,0	0,11
963.7314	19/32”	11,0	8,0	27,0	34,0	210,0	0,20
963.7315	5/8”	11,0	8,0	27,0	34,0	210,0	0,20
963.7316	11/16”	13,0	9,0	31,0	40,0	230,0	0,23
963.7317	3/4”	13,0	9,0	31,0	40,0	230,0	0,23
963.7318	25/32”	13,0	9,0	31,0	40,0	230,0	0,23
963.7319	13/16”	14,0	9,0	36,0	43,0	250,0	0,30
963.7320	7/8”	14,0	9,0	36,0	43,0	250,0	0,30
963.7321	15/16”	15,0	10,0	38,0	48,0	270,0	0,41

		A1 mm	A2 mm	B1 mm	B2 mm	L mm	kg
963.7322	31/32"	15,0	10,0	38,0	48,0	270,0	0,41
963.7323	1"	15,0	10,0	38,0	48,0	270,0	0,41
963.7324	1.1/16"	17,0	13,0	43,0	55,0	280,0	0,51
963.7325	1/1/8"	17,0	13,0	43,0	55,0	280,0	0,51
963.7326	1.3/16"	22,0	14,0	53,0	64,0	300,0	0,57
963.7327	1.1/4"	22,0	14,0	53,0	64,0	300,0	0,57
963.7328	1.5/16"	22,0	14,0	53,0	64,0	300,0	0,57
963.7329	1.3/8"	22,0	14,0	55,0	72,0	330,0	0,84
963.7330	1.7/16"	22,0	14,0	55,0	72,0	330,0	0,84
963.7331	1.1/2"	22,0	14,0	55,0	72,0	330,0	0,84
963.7332	1.9/16"	24,0	18,0	67,0	95,0	410,0	2,00
963.7333	1.5/8"	24,0	18,0	67,0	95,0	410,0	2,00
963.7334	1.11/16"	24,0	18,0	67,0	95,0	410,0	2,00
963.7335	1.3/4"	24,0	18,0	67,0	95,0	410,0	1,90
963.7336	1.13/16"	24,0	18,0	67,0	95,0	410,0	1,90
963.7337	1.7/8"	27,0	20,0	78,0	100,0	435,0	1,60
963.7338	2"	27,0	20,0	78,0	100,0	435,0	1,60
963.7339	2.1/16"	27,0	20,0	78,0	100,0	435,0	1,60
963.7340	2.1/8"	27,0	22,0	90,0	105,0	455,0	2,00
963.7341	2.3/16"	27,0	22,0	90,0	105,0	455,0	2,00
963.7342	2.1/4"	30,0	25,0	92,0	110,0	475,0	2,50

NON SPARKING RING SPANNERS

BRONZE*plus* double ring ended spanner

- FlankTraction profile
- In accordance to DIN 838 / ISO 1085 / ISO 10104 / ISO 3318
- Ring head 75° offset
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	mm	A1 mm	A2 mm	B1 mm	B2 mm	L mm	kg
963.7371	6x7	6,0	6,0	12,0	14,0	170,0	0,04
963.7372	6x8	6,0	6,0	12,0	14,0	170,0	0,11
963.7373	7x8	6,0	6,0	12,0	14,0	170,0	0,10
963.7374	7x9	7,0	7,0	15,0	18,0	170,0	0,10
963.7375	8x9	7,0	7,0	15,0	18,0	170,0	0,10
963.7376	8x10	7,0	7,0	15,0	18,0	180,0	0,14
963.7377	9x10	7,0	7,0	15,0	18,0	180,0	0,09
963.7378	9x11	8,0	8,0	17,0	20,0	180,0	0,08
963.7379	10x11	8,0	8,0	17,0	20,0	180,0	0,08
963.7380	10x12	8,0	8,0	17,0	20,0	180,0	0,14
963.7381	10x13	9,0	9,0	20,0	23,0	195,0	0,11
963.7382	10x14	9,0	9,0	20,0	23,0	195,0	0,17
963.7383	11x13	9,0	9,0	20,0	23,0	195,0	0,19
963.7384	11x14	9,0	9,0	20,0	23,0	195,0	0,18
963.7385	12x13	9,0	9,0	20,0	23,0	195,0	0,18
963.7386	12x14	9,0	9,0	20,0	23,0	195,0	0,18
963.7387	13x14	9,0	9,0	20,0	23,0	195,0	0,15
963.7388	13x15	10,0	10,0	22,0	26,0	230,0	0,24
963.7389	13x16	10,0	10,0	22,0	26,0	230,0	0,24
963.7390	13x17	10,0	10,0	22,0	26,0	230,0	0,25
963.7391	14x15	10,0	10,0	22,0	26,0	230,0	0,25
963.7392	14x16	10,0	10,0	22,0	26,0	230,0	0,24
963.7393	14x17	10,0	10,0	22,0	26,0	230,0	0,23
963.7394	16x17	10,0	10,0	24,0	26,0	230,0	0,24
963.7395	16x18	12,0	12,0	26,0	30,0	280,0	0,42
963.7396	17x19	12,0	12,0	26,0	30,0	280,0	0,40
963.7397	17x22	12,0	13,0	26,0	35,0	280,0	0,38
963.7398	18x19	12,0	12,0	26,0	30,0	280,0	0,40
963.7399	18x20	13,0	13,0	30,0	35,0	280,0	0,39
963.7400	18x21	13,0	13,0	30,0	35,0	280,0	0,39
963.7401	19x22	13,0	13,0	30,0	35,0	280,0	0,37
963.7402	19x24	14,0	14,0	35,0	37,0	290,0	0,53
963.7403	20x22	13,0	13,0	30,0	35,0	280,0	0,38
963.7404	21x23	14,0	14,0	35,0	37,0	290,0	0,51
963.7405	21x24	14,0	14,0	35,0	37,0	300,0	0,51
963.0033	21x26	16,0	16,0	38,0	42,0	340,0	0,50
963.7406	22x24	14,0	14,0	35,0	37,0	300,0	0,51

	mm	A1 mm	A2 mm	B1 mm	B2 mm	L mm	kg
963.7407	22x27	15,0	15,0	38,0	42,0	330,0	0,65
963.7408	23x26	15,0	15,0	38,0	42,0	330,0	0,67
963.7409	24x26	15,0	15,0	38,0	42,0	330,0	0,68
963.7410	24x27	15,0	15,0	38,0	42,0	330,0	0,67
963.7411	24x30	15,0	15,0	42,0	47,0	370,0	0,93
963.7412	25x28	15,0	15,0	38,0	42,0	330,0	0,66
963.7413	26x29	15,0	15,0	42,0	47,0	370,0	1,00
963.0034	26x32	18,0	18,0	47,0	50,0	380,0	0,60
963.7414	27x29	15,0	15,0	42,0	47,0	370,0	1,00
963.7415	27x30	15,0	15,0	42,0	47,0	370,0	0,90
963.7416	27x32	16,0	16,0	46,0	50,0	370,0	0,90
963.7417	30x32	16,0	16,0	46,0	50,0	370,0	0,86
963.7418	30x34	18,0	18,0	52,0	54,0	430,0	0,85
963.7419	30x36	18,0	18,0	52,0	54,0	430,0	1,30
963.7420	32x34	18,0	18,0	52,0	54,0	430,0	1,30
963.7421	32x36	18,0	18,0	52,0	54,0	430,0	1,30
963.7422	34x36	18,0	18,0	52,0	54,0	430,0	1,25
963.7423	35x38	18,0	18,0	54,0	56,0	450,0	1,40
963.7424	36x38	18,0	18,0	54,0	56,0	450,0	1,45
963.7425	36x41	20,0	20,0	56,0	62,0	450,0	1,45
963.7426	38x42	20,0	20,0	54,0	62,0	450,0	1,45
963.7427	41x46	20,0	20,0	63,0	68,0	460,0	1,80
963.7428	46x50	24,0	24,0	69,0	74,0	480,0	2,10
963.7429	50x55	23,0	23,0	72,0	83,0	540,0	3,00
963.7430	50x60	23,0	23,0	72,0	90,0	540,0	2,80
963.7431	55x60	24,0	24,0	80,0	90,0	540,0	2,80
963.7432	60x65	25,0	25,0	90,0	98,0	690,0	4,20
963.7433	65x70	25,0	25,0	98,0	105,0	690,0	4,20
963.7434	70x80	27,0	27,0	105,0	115,0	770,0	6,00
963.7435	75x80	27,0	27,0	110,0	115,0	790,0	6,60
963.7436	85x90	30,0	30,0	115,0	120,0	800,0	7,00

		A1 mm	A2 mm	B1 mm	B2 mm	L mm	kg
963.7438	1/4x5/16"	6,0	6,0	12,0	14,0	170,0	0,11
963.7439	5/16x3/8"	6,0	6,0	12,0	14,0	170,0	0,10
963.7440	3/8x7/16"	8,0	8,0	17,0	20,0	180,0	0,08
963.7441	7/16x1/2"	9,0	9,0	20,0	23,0	195,0	0,19
963.7442	1/2x9/16"	9,0	9,0	20,0	23,0	195,0	0,15
963.7443	1/2x19/32"	10,0	10,0	22,0	26,0	230,0	0,24
963.7444	9/16x5/8"	10,0	10,0	22,0	26,0	230,0	0,25
963.7445	19/32x11/16"	10,0	10,0	22,0	26,0	230,0	0,23
963.7446	5/8x11/16"	10,0	10,0	22,0	26,0	230,0	0,24
963.7447	5/8x3/4"	12,0	12,0	26,0	30,0	280,0	0,40
963.7448	11/16x3/4"	12,0	12,0	26,0	30,0	280,0	0,40
963.7449	11/16x25/32"	12,0	12,0	26,0	30,0	280,0	0,38
963.7450	3/4x25/32"	12,0	12,0	26,0	30,0	280,0	0,36
963.7451	3/4x7/8"	12,0	12,0	26,0	30,0	280,0	0,37
963.7452	13/16x7/8"	12,0	12,0	26,0	30,0	280,0	0,38
963.7453	25/32x13/16"	12,0	12,0	26,0	30,0	280,0	0,35
963.7454	7/8x15/16"	14,0	14,0	35,0	37,0	300,0	0,51
963.7455	7/8x1"	14,0	14,0	35,0	37,0	300,0	0,50
963.7456	7/8x1.1/16"	15,0	15,0	38,0	42,0	330,0	0,65
963.7457	15/16x1"	15,0	15,0	38,0	42,0	330,0	0,67
963.7458	1x1.1/8"	15,0	15,0	38,0	42,0	330,0	0,66
963.7459	1.1/16x1.1/8"	15,0	15,0	42,0	47,0	370,0	1,00
963.7460	1.1/16x1.1/4"	15,0	15,0	42,0	47,0	370,0	0,90
963.7461	1.1/8x1.5/16"	15,0	15,0	42,0	47,0	370,0	0,88
963.0038	1.3/16x1.1/4"	18,0	18,0	47,0	50,0	380,0	0,80
963.7462	1.3/16x1.5/16"	18,0	18,0	52,0	54,0	430,0	0,85
963.7463	1.1/4x1.5/16"	18,0	18,0	52,0	54,0	430,0	1,20
963.7464	1.1/4x1.3/8 "	18,0	18,0	52,0	54,0	430,0	1,30
963.7465	1.1/4x1.7/16"	18,0	18,0	52,0	54,0	430,0	1,30
963.0039	1.5/16x1.3/8"	25,0	25,0	51,0	56,0	405,0	1,10
963.7466	1.5/16x1.1/2"	18,0	18,0	52,0	54,0	430,0	1,20
963.0041	1.3/8x1.7/16"	25,0	25,0	51,0	56,0	405,0	1,10
963.7467	1.3/8x1.1/2"	18,0	18,0	54,0	56,0	450,0	1,40
963.7468	1.7/16x1.5/8"	18,0	18,0	54,0	56,0	450,0	1,45
963.0042	1.1/2x1.9/16"	28,0	28,0	57,0	63,0	450,0	1,60
963.7469	1.5/8x1.13/16"	20,0	20,0	63,0	68,0	460,0	1,80
963.7470	1.11/16x1.7/8"	20,0	20,0	63,0	68,0	460,0	1,80
963.7471	1.13/16x2"	24,0	24,0	69,0	74,0	480,0	2,10
963.7472	1.3/4x2.1/16"	24,0	24,0	69,0	74,0	480,0	2,00
963.7473	2x2.3/16"	24,0	24,0	80,0	90,0	540,0	3,00
963.7474	2 x2.3/8"	24,0	24,0	80,0	90,0	540,0	2,80
963.7475	2.3/16x2.3/8"	24,0	24,0	80,0	90,0	540,0	2,80
963.7476	2.1/4x2.7/16"	24,0	24,0	80,0	90,0	540,0	2,70
963.0043	2.3/8x2.3/4"	32,0	32,0	92,0	105,0	560,0	4,10

BRONZE*plus* double ring ended spanner set

- FlankTraction profile
- In accordance to DIN 838 / ISO 1085 / ISO 10104 / ISO 3318
- Ring head 75° offset
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

			kg
963.7437	12 pcs	6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17 - 18x19 - 20x22 - 21x23 - 24x27 - 25x28 - 30x32 mm	4,10
963.7477	8 pcs	1/4"x5/16" - 3/8"x7/16" - 7/16"x1/2" - 1/2"x9/16" - 9/16"x5/8" - 8/5"x11/16" - 3/4"x7/8" - 15"/16x1"	2,10

BRONZE*plus* double ring ended spanner, straight

- FlankTraction profile
- In accordance to DIN 838
- Straight form
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

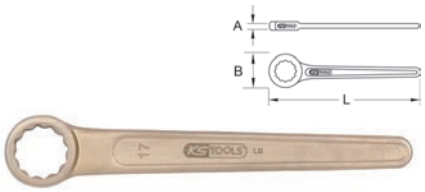
	mm	A1 mm	A2 mm	B1 mm	B2 mm	L mm	kg
963.7478	6x7	6,0	6,0	12,0	14,0	100,0	0,04
963.7479	8x9	7,0	7,0	15,0	18,0	115,0	0,06
963.7480	8x10	7,0	7,0	15,0	18,0	120,0	0,02
963.7481	9x11	8,0	8,0	17,0	20,0	125,0	0,07
963.7482	10x11	8,0	8,0	17,0	20,0	130,0	0,07
963.7483	10x13	9,0	9,0	20,0	23,0	130,0	0,10
963.7484	12x13	9,0	9,0	20,0	23,0	140,0	0,04
963.7485	12x14	9,0	9,0	20,0	23,0	140,0	0,09
963.7486	13x14	9,0	9,0	20,0	23,0	140,0	0,09
963.7487	13x15	9,0	9,0	20,0	23,0	140,0	0,14
963.7488	13x17	10,0	10,0	22,0	26,0	155,0	0,05
963.7489	14x15	10,0	10,0	22,0	26,0	155,0	0,14
963.7490	14x17	10,0	10,0	22,0	26,0	155,0	0,05
963.7491	16x17	12,0	12,0	26,0	30,0	170,0	0,07
963.7492	16x18	12,0	12,0	26,0	30,0	170,0	0,17
963.7493	17x19	12,0	12,0	26,0	30,0	190,0	0,08
963.7494	18x19	12,0	12,0	26,0	30,0	190,0	0,08
963.7495	19x22	14,0	14,0	35,0	37,0	200,0	0,12
963.7496	19x24	14,0	14,0	35,0	37,0	200,0	0,12
963.7497	20x22	14,0	14,0	35,0	37,0	200,0	0,12
963.7498	21x23	14,0	14,0	35,0	37,0	200,0	0,12
963.7499	22x24	14,0	14,0	35,0	37,0	200,0	0,12
963.7500	24x26	15,0	15,0	38,0	42,0	210,0	0,38
963.7501	24x27	15,0	15,0	38,0	42,0	210,0	0,13
963.7502	24x30	16,0	16,0	42,0	47,0	255,0	0,65
963.7503	25x28	16,0	16,0	42,0	47,0	255,0	0,20
963.7504	26x28	16,0	16,0	42,0	47,0	255,0	0,19
963.7505	27x29	16,0	16,0	42,0	47,0	255,0	0,64
963.7506	27x32	16,0	16,0	46,0	50,0	265,0	0,70
963.7507	30x32	16,0	16,0	46,0	50,0	265,0	0,65
963.7508	30x36	18,0	18,0	52,0	54,0	285,0	0,80
963.7509	32x36	18,0	18,0	52,0	54,0	285,0	0,78

	mm	A1 mm	A2 mm	B1 mm	B2 mm	L mm	kg
963.7510	36x41	20,0	20,0	54,0	64,0	460,0	0,33
963.7511	41x46	21,0	21,0	63,0	68,0	432,0	0,81
963.7512	46x50	24,0	24,0	69,0	74,0	477,0	1,04

		A1 mm	A2 mm	B1 mm	B2 mm	L mm	g
963.7513	1/4"x5/16"	6,0	6,0	12,0	14,0	100,0	40
963.7514	5/16"x3/8"	7,0	7,0	15,0	18,0	115,0	60
963.7515	3/8"x7/16"	8,0	8,0	17,0	20,0	125,0	70
963.7516	7/16"x9/16"	9,0	9,0	20,0	23,0	140,0	90
963.7517	1/2"x5/8"	10,0	10,0	22,0	26,0	155,0	50
963.7518	1/2"x19/32"	9,0	9,0	20,0	23,0	140,0	90
963.7519	9/16"x11/16"	10,0	10,0	22,0	26,0	155,0	50
963.7520	5/8"x25/32"	12,0	12,0	26,0	30,0	190,0	80
963.7521	11/16"x3/4"	12,0	12,0	26,0	30,0	190,0	80
963.7522	3/4"x7/8"	14,0	14,0	35,0	37,0	200,0	120
963.7523	13/16"x15/16"	14,0	14,0	35,0	37,0	200,0	120
963.7524	15/16"x1.1/16"	15,0	15,0	38,0	42,0	210,0	130
963.7525	1"x1.1/8"	16,0	16,0	42,0	47,0	255,0	200
963.7526	1.3/16"x1.1/4"	16,0	16,0	46,0	50,0	265,0	650

BRONZE*plus* single-end box wrench, straight

- FlankTraction profile
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	mm	A mm	B mm	L mm	kg
963.7527	14	10,5	24,0	140,0	0,13
963.7528	15	10,5	24,0	140,0	0,13
963.7529	16	11,5	29,0	155,0	0,15
963.7530	17	11,5	29,0	155,0	0,15
963.7531	18	12,0	30,0	170,0	0,25
963.7532	19	12,0	30,0	170,0	0,28
963.7533	20	13,5	35,0	190,0	0,28
963.7534	21	13,5	35,0	190,0	0,30
963.7535	22	13,5	35,0	190,0	0,30
963.7536	23	14,5	38,0	215,0	0,30
963.7537	24	14,5	38,0	215,0	0,40
963.7538	25	16,0	42,0	230,0	0,43
963.7539	26	16,0	42,0	230,0	0,45
963.7540	27	16,0	42,0	230,0	0,50
963.7541	28	17,0	48,0	265,0	0,52
963.7542	29	17,0	48,0	265,0	0,51
963.7543	30	17,0	48,0	265,0	0,50
963.7544	32	17,0	51,0	265,0	0,45
963.7545	33	17,0	51,0	265,0	0,43
963.7546	34	17,5	51,0	290,0	0,67
963.7547	35	17,5	51,0	290,0	0,66
963.7548	36	17,5	55,0	290,0	0,65
963.7549	37	21,0	65,0	325,0	0,90
963.7550	38	21,0	65,0	325,0	0,90
963.7551	41	21,0	65,0	325,0	0,90
963.7552	42	21,0	65,0	325,0	0,90
963.7553	46	23,0	72,0	365,0	1,10
963.7554	47	23,0	72,0	365,0	1,10
963.7555	50	24,5	79,0	400,0	1,40
963.7556	52	26,0	87,0	430,0	1,80
963.7557	54	26,0	87,0	430,0	1,70
963.7558	55	26,5	87,0	445,0	1,65
963.7559	56	27,5	93,0	465,0	1,80
963.7560	58	27,5	93,0	465,0	1,80
963.7561	60	27,5	93,0	465,0	2,00
963.7562	63	29,0	100,0	500,0	2,30
963.7563	65	29,0	100,0	500,0	2,10
963.7564	67	29,0	100,0	500,0	2,00
963.7565	70	30,0	107,0	550,0	3,00
963.7566	71	30,0	107,0	550,0	2,80
963.7567	75	32,0	115,0	620,0	5,00
963.7568	77	32,0	115,0	620,0	5,00
963.7569	80	32,0	125,0	620,0	4,50
963.7570	82	32,0	125,0	620,0	4,30
963.7571	85	35,0	130,0	650,0	5,00

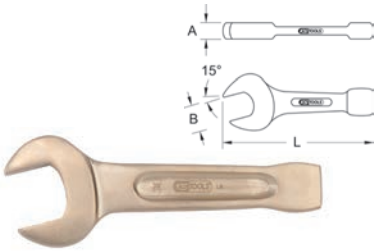
	mm	A mm	B mm	L mm	kg
963.7572	88	37,0	138,0	650,0	4,80
963.7573	90	37,0	138,0	650,0	4,20
963.7574	94	39,0	145,0	700,0	5,20
963.7575	95	39,0	145,0	700,0	5,20

		A mm	B mm	L mm	kg
963.7576	1/2"	10,5	24,0	140,0	0,13
963.7577	9/16"	10,5	24,0	140,0	0,13
963.7578	19/32"	10,5	24,0	140,0	0,13
963.7579	5/8"	11,5	29,0	155,0	0,15
963.7580	11/16"	11,5	29,0	155,0	0,15
963.7581	3/4"	12,0	30,0	170,0	0,28
963.7582	25/32"	13,5	35,0	190,0	0,28
963.7583	13/16"	13,5	35,0	190,0	0,30
963.7584	7/8"	13,5	35,0	190,0	0,30
963.7585	15/16"	14,5	38,0	215,0	0,40
963.7586	31/32"	14,5	38,0	215,0	0,43
963.7587	1"	16,0	42,0	230,0	0,43
963.7588	1.1/16"	16,0	42,0	230,0	0,50
963.7589	1.1/8"	17,0	48,0	265,0	0,52
963.7590	1.3/16"	17,0	48,0	265,0	0,50
963.7591	1.1/4"	17,0	51,0	265,0	0,45
963.7592	1.5/16"	17,0	51,0	265,0	0,43
963.7593	1.3/8"	17,5	51,0	290,0	0,66
963.7594	1.7/16"	21,0	65,0	325,0	0,90
963.7595	1.1/2"	21,0	65,0	325,0	0,90
963.7596	1.9/16"	21,0	65,0	325,0	0,85
963.7597	1.5/8"	21,0	65,0	325,0	0,90
963.7598	1.11/16"	21,0	65,0	325,0	0,85
963.7599	1.3/4"	23,0	72,0	365,0	1,20
963.7600	1.13/19"	23,0	72,0	365,0	1,10
963.7601	1.7/8"	23,0	72,0	365,0	1,10
963.7602	2"	24,5	79,0	400,0	1,40
963.7603	2.1/16"	26,0	87,0	430,0	1,80
963.7604	2.1/8"	26,0	87,0	430,0	1,70
963.7605	2.3/16"	26,5	87,0	445,0	1,65
963.7606	2.1/4"	27,5	93,0	465,0	1,80
963.7607	2.5/16"	27,5	93,0	465,0	1,80
963.7608	2.3/8"	27,5	93,0	465,0	2,00
963.7609	2.7/16"	29,0	100,0	500,0	2,10
963.7610	2.1/2"	29,0	100,0	500,0	2,00
963.7611	2.9/16"	29,0	100,0	500,0	2,10
963.7612	2.3/4"	30,0	107,0	550,0	3,00
963.7613	2.15/16"	32,0	115,0	620,0	5,00
963.7614	3"	32,0	115,0	620,0	5,00
963.7615	3.1/8"	32,0	115,0	620,0	4,50
963.7616	3.3/8"	35,0	130,0	650,0	5,00
963.7617	3.1/2"	37,0	138,0	650,0	4,80
963.7618	3.3/4"	39,0	145,0	700,0	5,20

NON SPARKING IMPACT SPANNERS

BRONZE*plus* slogging open ended spanner

- In accordance to DIN 133
- Jaw 15° offset
- With impact area
- For heavy duty applications
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	mm	A mm	B mm	L mm	kg
963.7619	14	11,0	30,0	180,0	0,35
963.7620	17	11,0	36,0	125,0	0,12
963.7621	19	12,0	40,0	120,0	0,16
963.7622	22	13,0	44,0	135,0	0,15
963.7623	24	14,0	46,0	150,0	0,20
963.7624	27	16,0	55,0	180,0	0,38
963.7625	28	16,0	55,0	180,0	0,37
963.7626	29	17,0	63,0	190,0	0,36

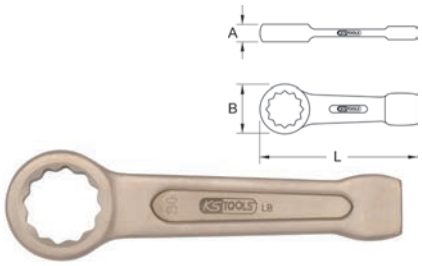
	mm	A mm	B mm	L mm	kg
963.7627	30	17,0	63,0	190,0	0,35
963.7628	32	17,0	64,0	210,0	0,68
963.7629	33	19,0	70,0	210,0	0,67
963.7630	34	19,0	70,0	210,0	0,66
963.7631	35	20,0	75,0	210,0	0,65
963.7632	36	20,0	75,0	210,0	0,64
963.7633	38	21,0	80,0	210,0	0,63
963.7634	41	21,0	85,0	220,0	0,79
963.7635	42	21,0	85,0	220,0	0,75
963.7636	46	22,0	97,0	250,0	1,15
963.7637	47	22,0	97,0	255,0	1,20
963.7638	50	23,0	105,0	275,0	1,35
963.7639	52	23,0	105,0	275,0	1,50
963.7640	54	25,0	115,0	300,0	1,90
963.7641	55	25,0	115,0	290,0	1,60
963.7642	56	25,0	125,0	290,0	1,55
963.7643	58	25,0	125,0	290,0	1,50
963.7644	60	26,0	125,0	320,0	2,60
963.7645	63	27,0	135,0	330,0	3,00
963.7646	65	27,0	135,0	330,0	3,00
963.7647	67	28,0	135,0	380,0	4,20
963.7648	70	28,0	135,0	380,0	3,80
963.7649	71	28,0	135,0	380,0	3,70
963.7650	75	30,0	155,0	380,0	3,60
963.7651	77	30,0	155,0	380,0	5,00
963.7652	80	32,0	165,0	370,0	4,80
963.7653	82	32,0	165,0	370,0	4,70
963.7654	85	32,0	170,0	370,0	4,50
963.7655	88	34,0	185,0	430,0	7,20
963.7656	90	34,0	185,0	430,0	7,00
963.7657	94	36,0	200,0	430,0	6,90
963.7658	95	36,0	200,0	430,0	6,80
963.7659	100	38,0	215,0	470,0	9,50
963.7660	105	38,0	215,0	470,0	9,30
963.7661	110	40,0	235,0	510,0	14,10
963.7662	115	40,0	235,0	510,0	13,30
963.7663	120	42,0	250,0	545,0	16,40
963.7664	125	42,0	250,0	545,0	15,50
963.7665	130	45,0	270,0	575,0	19,80
963.7666	135	45,0	270,0	575,0	19,20
963.7667	140	45,0	282,0	575,0	19,00
963.7668	145	48,0	295,0	640,0	27,00
963.7669	150	48,0	302,0	640,0	26,80
963.7670	155	48,0	320,0	640,0	26,50
963.7671	160	48,0	320,0	640,0	26,30
963.7672	165	50,0	340,0	715,0	39,50
963.7673	170	50,0	340,0	715,0	38,50
963.7674	175	55,0	355,0	715,0	37,00
963.7675	180	55,0	367,0	715,0	36,00
963.7676	185	55,0	390,0	715,0	35,80
963.7677	190	55,0	390,0	715,0	38,50
963.7678	195	55,0	390,0	715,0	38,50
963.7679	200	55,0	400,0	715,0	38,00
963.7680	205	55,0	400,0	715,0	37,50
963.7681	210	55,0	410,0	715,0	37,00
963.7682	220	55,0	410,0	715,0	36,50
963.7683	230	55,0	410,0	715,0	36,50

		A mm	B mm	L mm	kg
963.0085	3/4"	12,0	37,0	130,0	0,15
963.0086	7/8"	13,0	52,0	150,0	0,25
963.0087	15/16"	14,0	57,5	180,0	0,40
963.7684	1"	14,0	46,0	150,0	0,20
963.7685	1.1/16"	16,0	55,0	180,0	0,38
963.7686	1.1/8"	16,0	55,0	180,0	0,37
963.7687	1.3/16"	17,0	63,0	190,0	0,35
963.7688	1.1/4"	17,0	64,0	210,0	0,68
963.7689	1.5/16"	19,0	70,0	210,0	0,67
963.7690	1.3/8"	19,0	70,0	210,0	0,65
963.7691	1.7/16"	20,0	75,0	210,0	0,64
963.7692	1.1/2"	20,0	75,0	210,0	0,63
963.7693	1.9/16"	21,0	85,0	220,0	0,75
963.7694	1.5/8"	21,0	85,0	220,0	0,79
963.7695	1.11/16"	21,0	85,0	220,0	0,75
963.7696	1.3/4"	22,0	97,0	250,0	1,10
963.7697	1.13/16"	22,0	97,0	250,0	1,15
963.7698	1.7/8"	22,0	97,0	255,0	1,20
963.7699	2"	23,0	105,0	275,0	1,35
963.7700	2.1/16"	23,0	105,0	275,0	1,50
963.7701	2.1/8"	25,0	115,0	300,0	1,90
963.7702	2.3/16"	25,0	115,0	290,0	1,60
963.7703	2.1/4"	25,0	115,0	290,0	1,50
963.7704	2.5/16"	25,0	115,0	290,0	1,50
963.7705	2.3/8"	26,0	125,0	320,0	2,60
963.7706	2.7/16"	27,0	135,0	330,0	3,00
963.7707	2.1/2"	27,0	135,0	330,0	3,00
963.7708	2.9/16"	27,0	135,0	330,0	3,00

		A mm	B mm	L mm	kg
963.7709	2.5/8”	28,0	155,0	380,0	4,20
963.7710	2.3/4”	28,0	155,0	380,0	3,80
963.7711	2.13/16”	28,0	155,0	380,0	3,70
963.7712	2.15/16”	30,0	155,0	380,0	3,50
963.7713	3”	30,0	155,0	380,0	4,00
963.7714	3.1/8”	32,0	165,0	370,0	4,80
963.7715	3.1/4”	32,0	165,0	370,0	4,70
963.7716	3.3/8”	32,0	165,0	370,0	4,50
963.7717	3.1/2”	34,0	185,0	430,0	7,20
963.7718	3.5/8”	34,0	185,0	430,0	7,00
963.7719	3.3/4”	36,0	200,0	430,0	6,80
963.7720	3.7/8”	36,0	200,0	430,0	6,60
963.7721	4”	37,0	210,0	470,0	9,50
963.7722	4.1/8”	37,0	210,0	470,0	9,50
963.7723	4.1/2”	40,0	235,0	510,0	13,30

BRONZE*plus* slogging ring spanner

- FlankTraction profile (12 point)
- In accordance to DIN 7444
- With impact area
- For heavy duty applications
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



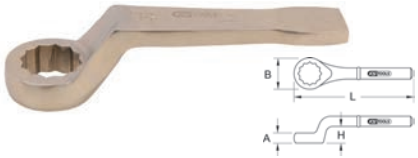
	mm	A mm	B mm	L mm	kg
963.7724	17	15,0	38,0	150,0	0,40
963.7725	19	15,0	38,0	150,0	0,40
963.7726	22	15,0	38,0	150,0	0,35
963.7727	24	15,0	38,0	150,0	0,35
963.7728	27	18,0	45,0	190,0	0,60
963.7729	28	18,0	45,0	190,0	0,58
963.7730	29	19,0	50,0	190,0	0,56
963.7731	30	19,0	50,0	190,0	0,55
963.7732	32	19,0	53,0	190,0	0,58
963.7733	33	19,0	53,0	190,0	0,57
963.7734	34	21,0	58,0	210,0	0,68
963.7735	35	21,0	58,0	210,0	0,70
963.7736	36	21,0	58,0	210,0	0,69
963.7737	37	21,0	58,0	210,0	0,68
963.7738	38	21,0	63,0	230,0	1,10
963.7739	41	21,0	63,0	230,0	1,00
963.7740	42	21,0	63,0	230,0	1,00
963.7741	46	23,0	70,0	240,0	1,25
963.7742	47	23,0	70,0	240,0	1,27
963.7743	50	27,0	77,0	255,0	1,40
963.7744	52	27,0	77,0	255,0	1,40
963.7745	54	27,0	85,0	255,0	1,35
963.7746	55	27,0	85,0	255,0	1,34
963.7747	56	27,0	85,0	255,0	1,33
963.7748	57	27,0	85,0	255,0	1,30
963.7749	58	29,0	92,0	280,0	2,50
963.7750	60	29,0	92,0	280,0	2,40
963.7751	63	30,0	104,0	295,0	2,90
963.7752	65	30,0	104,0	295,0	2,80
963.7753	67	30,0	104,0	295,0	2,70
963.7754	70	33,0	110,0	320,0	3,40
963.7755	71	33,0	110,0	320,0	3,30
963.7756	75	35,0	115,0	320,0	3,20
963.7757	76	35,0	115,0	320,0	3,10
963.7758	77	35,0	115,0	320,0	3,00
963.7759	80	37,0	120,0	355,0	3,60
963.7760	82	37,0	120,0	355,0	3,50
963.7761	85	42,0	125,0	365,0	5,00
963.7762	88	44,0	135,0	360,0	4,80
963.7763	90	44,0	135,0	360,0	4,60
963.7764	94	45,0	145,0	360,0	4,50
963.7765	95	45,0	145,0	360,0	4,40
963.7766	100	46,0	150,0	360,0	4,20
963.7767	105	46,0	150,0	360,0	3,90
963.7768	110	47,0	165,0	450,0	8,60
963.7769	115	47,0	165,0	450,0	8,10

	mm	A mm	B mm	L mm	kg
963.7770	120	48,0	182,0	480,0	9,70
963.7771	125	48,0	182,0	480,0	9,50
963.7772	128	50,0	196,0	520,0	13,20
963.7773	130	50,0	196,0	520,0	13,20
963.7774	135	50,0	196,0	520,0	12,90
963.7775	140	50,0	196,0	520,0	12,90
963.7776	145	52,0	220,0	580,0	19,00
963.7777	150	52,0	220,0	580,0	18,00
963.7778	155	52,0	220,0	580,0	17,20
963.7779	160	52,0	220,0	580,0	19,00
963.7780	165	54,0	245,0	650,0	28,00
963.7781	170	54,0	245,0	650,0	27,70
963.7782	175	54,0	245,0	650,0	27,00
963.7783	180	54,0	245,0	650,0	26,00
963.7784	185	56,0	270,0	700,0	32,70
963.7785	190	56,0	270,0	700,0	32,20
963.7786	195	56,0	270,0	700,0	31,80
963.7787	200	56,0	270,0	700,0	31,00

		A mm	B mm	L mm	kg
963.7788	11/16”	15,0	38,0	150,0	0,40
963.7789	3/4”	15,0	38,0	150,0	0,40
963.7790	25/32”	15,0	38,0	150,0	0,39
963.7791	13/16”	15,0	38,0	150,0	0,38
963.7792	7/8”	15,0	38,0	150,0	0,35
963.7793	15/16”	15,0	38,0	150,0	0,35
963.7794	1”	15,0	38,0	150,0	0,34
963.7795	1.1/16”	19,0	50,0	190,0	0,70
963.7796	1.1/8”	19,0	50,0	190,0	0,58
963.7797	1.1/4”	19,0	50,0	190,0	0,58
963.7798	1.3/16”	19,0	50,0	190,0	0,55
963.7799	1.5/16”	20,0	55,0	190,0	0,57
963.7800	1.3/8”	21,0	58,0	210,0	0,70
963.7801	1.7/16”	21,0	58,0	210,0	0,69
963.7802	1.1/2”	21,0	63,0	230,0	1,10
963.7803	1.9/16”	21,0	63,0	230,0	1,00
963.7804	1.5/8”	21,0	63,0	230,0	1,00
963.7805	1.11/16”	21,0	63,0	230,0	1,00
963.7806	1.3/4”	23,0	70,0	240,0	1,20
963.7807	1.13/16”	23,0	70,0	240,0	1,25
963.7808	1.7/8”	23,0	70,0	240,0	1,27
963.7809	2”	27,0	77,0	255,0	1,40
963.7810	2.1/16”	27,0	77,0	255,0	1,40
963.7811	2.1/8”	27,0	85,0	255,0	1,35
963.7812	2.3/16”	27,0	85,0	255,0	1,34
963.7813	2.1/4”	27,0	85,0	255,0	1,30
963.7814	2.5/16”	29,0	92,0	280,0	2,50
963.7815	2.3/8”	29,0	92,0	280,0	2,40
963.7816	2.7/16”	30,0	104,0	295,0	2,70
963.7817	2.1/2”	30,0	104,0	295,0	2,90
963.7818	2.9/16”	30,0	104,0	295,0	2,80
963.7819	2.5/8”	30,0	104,0	295,0	2,70
963.7820	2.3/4”	33,0	110,0	320,0	3,20
963.7821	2.13/16”	33,0	110,0	320,0	3,30
963.7822	2.7/8”	33,0	110,0	320,0	3,30
963.7823	2.15/16”	35,0	115,0	320,0	3,20
963.7824	3”	35,0	115,0	320,0	3,10
963.7825	3.1/8”	37,0	120,0	355,0	3,60
963.7826	3.1/4”	37,0	120,0	355,0	3,50
963.7827	3.3/8”	43,0	125,0	365,0	5,00
963.7828	3.1/2”	44,0	135,0	360,0	4,80
963.7829	3.5/8”	44,0	135,0	360,0	4,50
963.7830	3.3/4”	45,0	145,0	360,0	4,50
963.7831	3.7/8”	46,0	150,0	360,0	4,30
963.7832	4”	46,0	150,0	360,0	4,20
963.7833	4.1/8”	46,0	150,0	360,0	3,90
963.7834	4.1/2”	47,0	167,0	450,0	8,10

BRONZE*plus* slogging ring spanner, offset

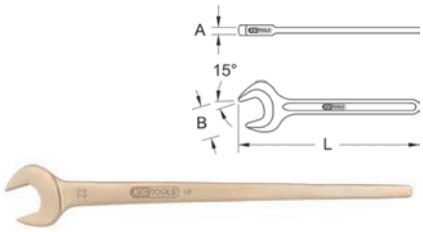
- FlankTraction profile (12 point)
- In accordance to DIN 7444
- Ring head 75° offset
- With impact area
- For heavy duty applications
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	mm	A mm	B mm	H mm	L mm	kg
963.7835	27	17,0	42,0	45,0	245,0	1,10
963.7836	30	18,0	53,0	50,0	270,0	1,50
963.7837	32	18,0	55,0	50,0	270,0	1,50
963.7838	36	20,0	60,0	55,0	280,0	1,60
963.7839	41	22,0	67,0	60,0	310,0	2,10
963.7840	46	23,0	70,0	65,0	320,0	2,50
963.7841	50	27,0	77,0	65,0	320,0	2,50
963.7842	55	27,0	85,0	65,0	320,0	2,60
963.7843	60	29,0	92,0	70,0	355,0	3,20
963.7844	65	30,0	104,0	72,0	380,0	3,80
963.7845	70	33,0	110,0	75,0	400,0	4,60
963.7846	75	35,0	115,0	80,0	420,0	5,70
963.7847	80	37,0	120,0	85,0	440,0	6,60
963.7848	85	43,0	125,0	85,0	440,0	7,00
963.7849	90	44,0	135,0	85,0	440,0	9,30
963.7850	95	45,0	145,0	85,0	440,0	10,00
963.7851	100	46,0	150,0	90,0	440,0	11,70
963.7852	110	47,0	167,0	90,0	440,0	13,40
963.7853	115	47,0	167,0	90,0	440,0	14,50

BRONZE*plus* open ended spanner 15°

- Jaw 15° offset
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



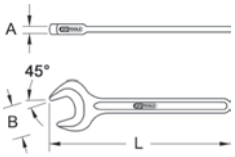
	mm	A mm	B mm	L mm	kg
963.7854	22	10,5	48,0	320,0	0,45
963.7855	23	10,5	48,0	320,0	0,45
963.7856	24	11,0	52,0	350,0	0,60
963.7857	25	11,0	52,0	350,0	0,60
963.7858	26	11,5	60,0	380,0	0,85
963.7859	27	11,5	60,0	380,0	0,85
963.7860	28	12,0	65,0	420,0	1,00
963.7861	29	12,0	65,0	420,0	1,00
963.7862	30	12,0	65,0	420,0	1,00
963.7863	32	12,5	70,0	450,0	1,00
963.7864	33	12,5	70,0	450,0	1,00
963.7865	34	13,0	74,0	450,0	1,00
963.7866	35	13,5	80,0	500,0	1,40
963.7867	36	13,5	80,0	500,0	1,40
963.7868	37	13,5	80,0	500,0	1,40
963.7869	38	15,0	90,0	500,0	1,40
963.7870	41	15,0	90,0	550,0	1,80
963.7871	42	15,0	90,0	550,0	1,80
963.7872	46	16,0	100,0	600,0	2,50
963.7873	47	16,0	100,0	600,0	2,50
963.7874	50	17,0	110,0	660,0	3,20
963.7875	52	17,0	110,0	660,0	3,20
963.7876	54	18,0	120,0	660,0	4,40
963.7877	55	18,0	120,0	730,0	4,40
963.7878	56	18,0	120,0	730,0	4,40
963.7879	58	19,0	130,0	800,0	5,60
963.7880	60	19,0	130,0	800,0	5,60

		A mm	B mm	L mm	kg
963.7935	13/16”	10,5	48,0	320,0	0,45
963.7936	7/8”	10,5	48,0	320,0	0,45
963.7937	15/16”	11,0	52,0	350,0	0,60
963.7938	31/32”	11,0	52,0	350,0	0,60
963.7939	1”	11,5	60,0	380,0	0,60
963.7940	1.1/16”	11,5	60,0	380,0	0,85
963.7941	1.1/8”	12,0	65,0	420,0	1,00
963.7942	1.3/16”	12,0	65,0	420,0	1,00
963.7943	1.1/4”	12,0	65,0	420,0	1,00
963.7944	1.5/16”	12,5	70,0	450,0	1,00
963.7945	1.3/8”	12,5	70,0	450,0	1,40
963.7946	1.7/16”	13,5	80,0	450,0	1,40
963.7947	1.1/2”	15,0	90,0	500,0	1,40
963.7948	1.9/16”	15,0	90,0	500,0	1,80

		A mm	B mm	L mm	kg
963.7949	1.5/8"	15,0	90,0	500,0	1,80
963.7950	1.11/16"	15,0	90,0	500,0	1,80
963.7951	1.3/4"	16,0	100,0	550,0	2,50
963.7952	1.13/16"	16,0	100,0	550,0	2,50
963.7953	1.7/8"	16,0	100,0	600,0	2,50
963.7954	2"	17,0	110,0	600,0	3,20
963.7955	2.1/16"	17,0	110,0	660,0	3,20
963.7956	2.1/8"	18,0	120,0	660,0	4,40
963.7957	2.3/16"	18,0	120,0	660,0	4,40
963.7958	2.1/4"	19,0	130,0	730,0	4,40
963.7959	2.5/16"	19,0	130,0	730,0	5,60
963.7960	2.3/8"	19,0	130,0	800,0	5,60

BRONZE*plus* open ended spanner 45°

- Jaw 45° offset
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



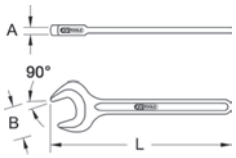
	mm	A mm	B mm	L mm	kg
963.7881	22	10,5	48,0	320,0	0,45
963.7882	23	10,5	48,0	320,0	0,45
963.7883	24	11,0	52,0	350,0	0,60
963.7884	25	11,0	52,0	350,0	0,60
963.7885	26	11,5	60,0	380,0	0,85
963.7886	27	11,5	60,0	380,0	0,85
963.7887	28	12,0	65,0	420,0	1,00
963.7888	29	12,0	65,0	420,0	1,00
963.7889	30	12,0	65,0	420,0	1,00
963.7890	32	12,5	70,0	450,0	1,00
963.7891	33	12,5	70,0	450,0	1,00
963.7892	34	13,0	74,0	450,0	1,00
963.7893	35	13,5	80,0	500,0	1,40
963.7894	36	13,5	80,0	500,0	1,40
963.7895	37	13,5	80,0	500,0	1,40
963.7896	38	15,0	90,0	500,0	1,40
963.7897	41	15,0	90,0	550,0	1,80
963.7898	42	15,0	90,0	550,0	1,80
963.7899	46	16,0	100,0	600,0	2,50
963.7900	47	16,0	100,0	600,0	2,50
963.7901	50	17,0	110,0	660,0	3,20
963.7902	52	17,0	110,0	660,0	3,20
963.7903	54	18,0	120,0	660,0	4,40
963.7904	55	18,0	120,0	730,0	4,40
963.7905	56	18,0	120,0	730,0	4,40
963.7906	58	19,0	130,0	800,0	5,60
963.7907	60	19,0	130,0	800,0	5,60

		A mm	B mm	L mm	kg
963.7961	13/16"	10,5	48,0	320,0	0,45
963.7962	7/8"	10,5	48,0	320,0	0,45
963.7963	15/16"	11,0	52,0	350,0	0,60
963.7964	31/32"	11,0	52,0	350,0	0,60
963.7965	1"	11,5	60,0	380,0	0,60
963.7966	1.1/16"	11,5	60,0	380,0	0,85
963.7967	1.1/8"	12,0	65,0	420,0	1,00
963.7968	1.3/16"	12,0	65,0	420,0	1,00
963.7969	1.1/4"	12,0	65,0	420,0	1,00
963.7970	1.5/16"	12,5	70,0	450,0	1,00
963.7971	1.3/8"	12,5	70,0	450,0	1,40
963.7972	1.7/16"	13,5	80,0	450,0	1,40
963.7973	1.1/2"	15,0	90,0	500,0	1,40
963.7974	1.9/16"	15,0	90,0	500,0	1,80
963.7975	1.5/8"	15,0	90,0	500,0	1,80
963.7976	1.11/16"	15,0	90,0	500,0	1,80
963.7977	1.3/4"	16,0	100,0	550,0	2,50

		A mm	B mm	L mm	kg
963.7978	1.13/16"	16,0	100,0	550,0	2,50
963.7979	1.7/8"	16,0	100,0	600,0	2,50
963.7980	2"	17,0	110,0	600,0	3,20
963.7981	2.1/16"	17,0	110,0	660,0	3,20
963.7982	2.1/8"	18,0	120,0	660,0	4,40
963.7983	2.3/16"	18,0	120,0	660,0	4,40
963.7984	2.1/4"	19,0	130,0	730,0	4,40
963.7985	2.5/16"	19,0	130,0	730,0	5,60
963.7986	2.3/8"	19,0	130,0	800,0	5,60

BRONZE*plus* open ended spanner 90°

- Jaw 90° offset
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

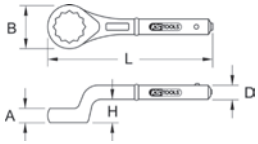


	mm	A mm	B mm	L mm	kg
963.7908	22	10,5	48,0	320,0	0,45
963.7909	23	10,5	48,0	320,0	0,45
963.7910	24	11,0	52,0	350,0	0,60
963.7911	25	11,0	52,0	350,0	0,60
963.7912	26	11,5	60,0	380,0	0,85
963.7913	27	11,5	60,0	380,0	0,85
963.7914	28	12,0	65,0	420,0	1,00
963.7915	29	12,0	65,0	420,0	1,00
963.7916	30	12,0	65,0	420,0	1,00
963.7917	32	12,5	70,0	450,0	1,00
963.7918	33	12,5	70,0	450,0	1,00
963.7919	34	13,0	74,0	450,0	1,00
963.7920	35	13,5	80,0	500,0	1,40
963.7921	36	13,5	80,0	500,0	1,40
963.7922	37	13,5	80,0	500,0	1,40
963.7923	38	15,0	90,0	500,0	1,40
963.7924	41	15,0	90,0	550,0	1,80
963.7925	42	15,0	90,0	550,0	1,80
963.7926	46	16,0	100,0	600,0	2,50
963.7927	47	16,0	100,0	600,0	2,50
963.7928	50	17,0	110,0	660,0	3,20
963.7929	52	17,0	110,0	660,0	3,20
963.7930	54	18,0	120,0	660,0	4,40
963.7931	55	18,0	120,0	730,0	4,40
963.7932	56	18,0	120,0	730,0	4,40
963.7933	58	19,0	130,0	800,0	5,60
963.7934	60	19,0	130,0	800,0	5,60

		A mm	B mm	L mm	kg
963.7987	13/16"	10,5	48,0	320,0	0,45
963.7988	7/8"	10,5	48,0	320,0	0,45
963.7989	15/16"	11,0	52,0	350,0	0,60
963.7990	31/32"	11,0	52,0	350,0	0,60
963.7991	1"	11,5	60,0	380,0	0,60
963.7992	1.1/16"	11,5	60,0	380,0	0,85
963.7993	1.1/8"	12,0	65,0	420,0	1,00
963.7994	1.3/16"	12,0	65,0	420,0	1,00
963.7995	1.1/4"	12,0	65,0	420,0	1,00
963.7996	1.5/16"	12,5	70,0	450,0	1,00
963.7997	1.3/8"	12,5	70,0	450,0	1,40
963.7998	1.7/16"	13,5	80,0	450,0	1,40
963.7999	1.1/2"	15,0	90,0	500,0	1,40
963.8000	1.9/16"	15,0	90,0	500,0	1,80
963.8001	1.5/8"	15,0	90,0	500,0	1,80
963.8002	1.11/16"	15,0	90,0	500,0	1,80
963.8003	1.3/4"	16,0	100,0	550,0	2,50
963.8004	1.13/16"	16,0	100,0	550,0	2,50
963.8005	1.7/8"	16,0	100,0	600,0	2,50
963.8006	2"	17,0	110,0	600,0	3,20
963.8007	2.1/16"	17,0	110,0	660,0	3,20
963.8008	2.1/8"	18,0	120,0	660,0	4,40
963.8009	2.3/16"	18,0	120,0	660,0	4,40
963.8010	2.1/4"	19,0	130,0	730,0	4,40
963.8011	2.5/16"	19,0	130,0	730,0	5,60
963.8012	2.3/8"	19,0	130,0	800,0	5,60

BRONZE*plus* Offset single ring spanner

- FlankTraction profile
- Ring head 75° offset
- With shaft for snap-on handle
- With locking pin
- Heavy duty to deliver maximum torque
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



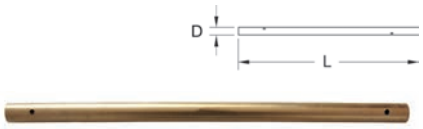
	mm	A mm	B mm	D mm	H mm	L mm		kg
963.8013	22	19,0	36,0	15,5	31,0	260,0	1	0,96
963.8014	24	19,0	36,0	15,5	31,0	260,0	1	1,00
963.8015	27	19,0	40,0	15,5	31,0	260,0	1	0,96
963.8016	30	19,0	45,0	15,5	33,0	260,0	1	0,95
963.8017	32	19,5	48,0	21,7	33,0	260,0	1	0,94
963.8018	33	19,5	48,0	21,7	33,0	260,0	1	0,92
963.8019	34	20,0	53,0	21,7	35,0	260,0	1	0,91
963.8020	35	20,0	53,0	21,7	35,0	260,0	1	0,91
963.8021	36	20,0	53,0	21,7	35,0	260,0	1	0,91
963.8022	37	20,0	53,0	21,7	35,0	270,0	1	1,20
963.8023	38	21,0	59,0	21,7	40,0	270,0	1	1,90
963.8024	41	21,0	59,0	21,7	40,0	270,0	1	1,10
963.8025	42	21,0	59,0	21,7	40,0	270,0	1	1,10
963.8026	46	24,0	66,0	21,7	43,0	300,0	2	1,50
963.8027	47	24,0	66,0	21,7	43,0	300,0	2	1,50
963.8028	50	28,0	72,0	21,7	46,0	300,0	2	1,70
963.8029	52	28,0	72,0	21,7	46,0	350,0	2	2,60
963.8030	54	30,0	79,0	21,7	49,0	350,0	2	2,50
963.8031	55	30,0	79,0	21,7	49,0	300,0	2	1,90
963.8032	56	30,0	79,0	21,7	49,0	350,0	2	2,60
963.8033	58	36,0	86,0	21,7	57,0	350,0	2	2,50
963.8034	60	36,0	86,0	21,7	57,0	370,0	3	2,50
963.8035	63	36,0	86,0	21,7	57,0	370,0	3	2,50
963.8036	65	38,0	93,0	21,7	60,0	400,0	3	3,20
963.8037	67	38,0	93,0	21,7	60,0	400,0	3	3,10
963.8038	70	41,0	103,0	21,7	62,0	400,0	3	3,00
963.8039	71	41,0	103,0	21,7	62,0	400,0	3	2,80
963.8040	75	43,0	109,0	21,7	67,0	400,0	3	2,70
963.8041	77	43,0	109,0	21,7	67,0	400,0	3	2,60
963.8042	80	43,0	119,0	21,7	68,0	410,0	3	5,00
963.8043	82	43,0	119,0	21,7	68,0	410,0	3	5,00
963.8044	85	45,0	128,0	21,7	72,0	410,0	3	5,10
963.8045	90	45,0	135,0	21,7	72,0	410,0	3	5,01
963.8046	95	45,0	142,0	21,7	72,0	410,0	3	4,79
963.8047	100	45,0	150,0	21,7	75,0	412,0	3	7,55

		A mm	B mm	D mm	H mm	L mm		kg
963.8051	1.3/16"	19,0	36,0	15,5	31,0	260,0	1	0,95
963.8052	1.1/4"	19,5	48,0	21,7	33,0	260,0	1	0,94
963.8053	1.5/16"	19,5	48,0	21,7	33,0	260,0	1	0,92
963.8054	1.3/8"	20,0	53,0	21,7	35,0	260,0	1	0,91
963.8055	1.7/16"	20,0	53,0	21,7	35,0	260,0	1	0,91
963.8056	1.1/2"	21,0	59,0	21,7	40,0	270,0	1	1,90
963.8057	1.9/16"	21,0	59,0	21,7	40,0	270,0	1	1,20
963.8058	1.5/8"	21,0	59,0	21,7	40,0	270,0	1	1,10
963.8059	1.11/16"	21,0	59,0	21,7	40,0	270,0	2	1,10
963.8060	1.3/4"	24,0	66,0	21,7	43,0	270,0	2	1,00
963.8061	1.13/16"	24,0	66,0	21,7	43,0	300,0	2	1,50
963.8062	1.7/8"	24,0	66,0	21,7	43,0	300,0	2	1,50
963.8063	2"	28,0	72,0	21,7	46,0	300,0	2	1,70
963.8064	2.1/16"	28,0	72,0	21,7	46,0	350,0	2	2,60
963.8065	2.1/8"	30,0	79,0	21,7	49,0	350,0	2	2,40
963.8066	2.3/16"	30,0	79,0	21,7	49,0	300,0	2	1,90
963.8067	2.1/4"	36,0	86,0	21,7	57,0	350,0	2	2,50
963.8068	2.5/16"	36,0	86,0	21,7	57,0	350,0	3	2,50
963.8069	2.3/8"	36,0	86,0	21,7	57,0	370,0	3	2,50
963.8070	2.7/16"	36,0	86,0	21,7	57,0	370,0	3	2,50
963.8071	2.1/2"	38,0	93,0	21,7	60,0	370,0	3	2,50

		A mm	B mm	D mm	H mm	L mm		kg
963.8072	2.9/16"	38,0	93,0	21,7	60,0	400,0	3	3,20
963.8073	2.5/8"	38,0	93,0	21,7	60,0	400,0	3	3,10
963.8074	2.3/4"	41,0	103,0	21,7	62,0	400,0	3	3,00
963.8075	2.13/16"	41,0	103,0	21,7	62,0	400,0	3	2,80
963.8076	2.15/16"	43,0	109,0	21,7	67,0	400,0	3	2,70
963.8077	3"	43,0	109,0	21,7	67,0	400,0	3	2,50
963.8078	3.1/8"	43,0	119,0	21,7	68,0	410,0	3	4,90
963.8079	3.1/4"	43,0	119,0	21,7	68,0	410,0	3	5,00
963.8080	3.3/8"	45,0	128,0	21,7	72,0	410,0	3	5,10

BRONZE*plus* Snap-on handle for single ring spanner

- Three different sizes
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	mm		D mm	L mm	#	kg
963.8048	22-42	1.3/16-1.5/8"	22,0	600,0	1	1,10
963.8049	46-58	1.11/16-2.1/4"	25,0	750,0	2	2,80
963.8050	60-100	2.5/16-3.3/8"	30,0	850,0	3	3,80

BRONZE*plus* Offset single ring spanner set

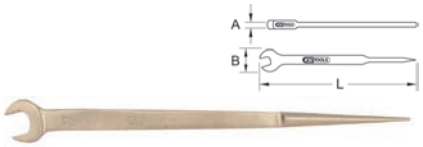
- FlankTraction profile
- Ring head 75° offset
- With shaft for snap-on handle
- With locking pin
- Heavy duty to deliver maximum torque
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

			kg
963.8081	18 pcs	24 - 27 - 30 - 32 - 36 - 41 - 46 - 50 - 55 - 60 - 65 - 70 - 75 - 80 - 85 mm	40,20
15 x		24 - 27 - 30 - 32 - 36 - 41 - 46 - 50 - 55 - 60 - 65 - 70 - 75 - 80 - 85 mm	
3 x		22-42 - 46-58 - 60-100 mm	

NON SPARKING INSTALLATION WRENCH

BRONZE*plus* Installation open end spanner with mandrel

- Practical combination of open ended spanner and setting punch
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



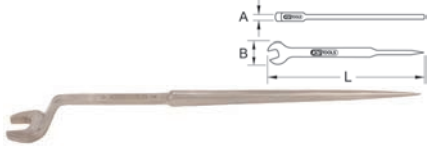
	mm	A mm	B mm	L mm	kg
963.8082	17	11,0	35,0	320,0	0,27

	mm	A mm	B mm	L mm	kg
963.8083	18	11,0	35,0	320,0	0,27
963.8084	19	12,0	40,0	350,0	0,29
963.8085	20	12,0	40,0	350,0	0,29
963.8086	21	13,0	46,0	350,0	0,36
963.8087	22	13,0	46,0	350,0	0,36
963.8088	23	15,0	49,0	370,0	0,65
963.8089	24	15,0	49,0	370,0	0,65
963.8090	25	16,0	54,0	370,0	0,65
963.8091	26	16,0	54,0	370,0	0,65
963.8092	27	16,0	54,0	370,0	0,65
963.8093	28	17,0	62,0	400,0	0,95
963.8094	29	17,0	62,0	400,0	0,95
963.8095	30	17,0	62,0	400,0	0,95
963.8096	32	18,0	65,0	400,0	0,95
963.8097	33	18,0	65,0	400,0	0,95
963.8098	34	18,0	65,0	400,0	0,95
963.8099	35	20,0	75,0	430,0	1,40
963.8100	36	20,0	75,0	430,0	1,40
963.8101	37	20,0	75,0	430,0	1,40
963.8102	38	21,0	85,0	430,0	1,40
963.8103	41	21,0	85,0	470,0	1,90
963.8104	42	21,0	85,0	470,0	1,90
963.8105	46	22,0	95,0	500,0	2,70
963.8106	47	22,0	95,0	500,0	2,70
963.8107	50	24,0	105,0	530,0	3,55

		A mm	B mm	L mm	kg
963.8108	11/16"	11,0	35,0	320,0	0,27
963.8109	3/4"	12,0	40,0	350,0	0,27
963.8110	25/32"	12,0	40,0	350,0	0,36
963.8111	13/16"	12,0	40,0	350,0	0,40
963.8112	7/8"	13,0	46,0	350,0	0,40
963.8113	15/16"	15,0	49,0	370,0	0,40
963.8114	31/32"	15,0	49,0	370,0	0,65
963.8115	1"	16,0	54,0	370,0	0,65
963.8116	1.1/16"	16,0	54,0	370,0	0,65
963.8117	1.1/8"	16,0	54,0	400,0	0,65
963.8118	1.3/16"	17,0	62,0	400,0	0,65
963.8119	1.1/4"	18,0	65,0	400,0	0,95
963.8120	1.5/16"	18,0	65,0	400,0	0,95
963.8121	1.3/8"	20,0	75,0	430,0	0,95
963.8122	1.7/16"	20,0	75,0	430,0	1,40
963.8123	1.1/2"	21,0	85,0	430,0	1,40
963.8124	1.9/16"	21,0	85,0	470,0	1,40
963.8125	1.5/8"	21,0	85,0	470,0	1,90
963.8126	1.11/16"	21,0	85,0	470,0	1,90
963.8127	1.3/4"	22,0	95,0	500,0	1,90
963.8128	1.13/16"	22,0	95,0	500,0	2,70
963.8129	1.7/8"	22,0	95,0	500,0	2,70
963.8130	2"	24,0	105,0	530,0	3,55

BRONZE*plus* Installation open end spanner with mandrel, offset

- Mouth 75° offset
- Practical combination of open ended spanner and setting punch
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



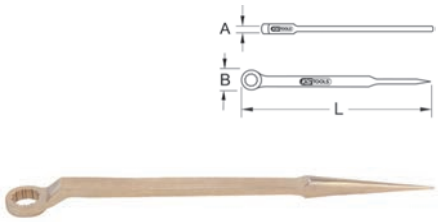
	mm	A mm	B mm	L mm	kg
963.8131	17	11,0	35,0	320,0	0,16
963.8132	18	12,0	40,0	320,0	0,16
963.8133	19	12,0	40,0	350,0	0,51
963.8134	20	12,0	40,0	350,0	0,51
963.8135	21	13,0	46,0	350,0	0,51
963.8136	22	13,0	46,0	350,0	0,51
963.8137	23	15,0	49,0	370,0	0,33
963.8138	24	15,0	49,0	370,0	0,34
963.8139	25	15,0	49,0	370,0	0,34
963.8140	26	16,0	54,0	370,0	0,37
963.8141	27	16,0	54,0	370,0	0,37
963.8142	28	17,0	62,0	400,0	0,37
963.8143	29	17,0	62,0	400,0	0,54
963.8144	30	17,0	62,0	400,0	0,54
963.8145	32	18,0	65,0	400,0	0,65
963.8146	33	18,0	65,0	400,0	0,65
963.8147	34	18,0	65,0	400,0	0,65

	mm	A mm	B mm	L mm	kg
963.8148	35	20,0	75,0	430,0	1,54
963.8149	36	20,0	75,0	430,0	1,54
963.8150	37	20,0	75,0	430,0	1,54
963.8151	38	21,0	85,0	430,0	1,54
963.8152	41	21,0	85,0	470,0	2,09
963.8153	42	21,0	85,0	470,0	2,09
963.8154	46	22,0	95,0	500,0	2,97
963.8155	47	22,0	95,0	500,0	2,97
963.8156	50	24,0	105,0	530,0	3,90

		A mm	B mm	L mm	kg
963.8157	11/16"	11,0	35,0	290,0	0,16
963.8158	7/8"	13,0	46,0	355,0	0,51
963.8159	15/16"	15,0	49,0	355,0	0,51
963.8160	1.1/16"	16,0	54,0	380,0	0,37
963.8161	1.3/16"	17,0	62,0	410,0	0,55
963.8162	1.1/4"	18,0	65,0	380,0	0,58
963.8163	1.7/16"	20,0	75,0	460,0	1,54
963.8164	1.1/2"	21,0	85,0	460,0	0,65
963.8165	1.5/8"	21,0	85,0	510,0	2,09
963.8166	1.13/16"	22,0	95,0	550,0	2,97
963.8167	2"	24,0	105,0	550,0	3,90

BRONZE*plus* Installation ring spanner with mandrel, offset

- Ring head 75° offset
- Practical combination of ring spanner and setting punch
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	mm	A mm	B mm	L mm	kg
963.8168	17	12,0	28,0	320,0	0,20
963.8169	18	12,0	28,0	320,0	0,31
963.8170	19	13,0	30,0	350,0	0,51
963.8171	20	13,0	30,0	350,0	0,51
963.8172	21	15,0	34,0	350,0	0,51
963.8173	22	15,0	34,0	350,0	0,51
963.8174	23	17,0	38,0	370,0	0,40
963.8175	24	17,0	38,0	370,0	0,40
963.8176	25	17,0	38,0	370,0	0,35
963.8177	26	21,0	43,0	370,0	0,55
963.8178	27	21,0	43,0	370,0	0,56
963.8179	28	23,0	48,0	400,0	0,54
963.8180	29	23,0	48,0	400,0	0,57
963.8181	30	23,0	48,0	400,0	0,64
963.8182	32	24,0	50,0	400,0	0,63
963.8183	33	24,0	50,0	400,0	0,63
963.8184	34	25,0	56,0	400,0	0,75
963.8185	35	25,0	56,0	430,0	1,54
963.8186	36	25,0	56,0	430,0	1,54
963.8187	37	25,0	56,0	430,0	1,54
963.8188	38	25,0	56,0	430,0	1,54
963.8189	41	27,0	62,0	470,0	2,09
963.8190	42	27,0	62,0	470,0	2,09
963.8191	46	29,0	71,0	500,0	2,97
963.8192	47	29,0	71,0	500,0	2,97
963.8193	50	33,0	76,0	530,0	3,90

		A mm	B mm	L mm	kg
963.8194	11/16"	12,0	28,0	290,0	0,30
963.8195	7/8"	13,0	30,0	355,0	0,51
963.8196	15/16"	13,0	30,0	355,0	0,51
963.8197	1.1/16"	21,0	43,0	380,0	0,56
963.8198	1.3/16"	23,0	48,0	410,0	0,64
963.8199	1.1/4"	24,0	50,0	380,0	0,64
963.8200	5.7/16"	25,0	56,0	460,0	1,54
963.8201	1.1/2"	25,0	56,0	460,0	1,02
963.8202	1.5/8"	27,0	62,0	510,0	2,09
963.8203	1.13/16"	29,0	71,0	550,0	2,97
963.8204	2"	33,0	76,0	550,0	3,90

NON SPARKING HOSE COUPLING WRENCHES & HOOK WRENCHES

BRONZE*plus* Coupling spanner A-B-C

- For fire brigade (Storz) couplings A - B - C
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

	Ø mm	L mm	g
963.8205	14	440,0	800

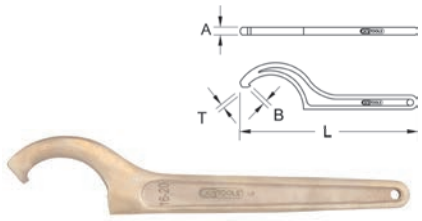
BRONZE*plus* Coupling spanner B-C

- For fire brigade (Storz) couplings B - C
- Handle insulated with plastic against cold
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

	Ø mm	L mm	g
963.8206	12	280,0	450

BRONZE*plus* hook wrench with spigot

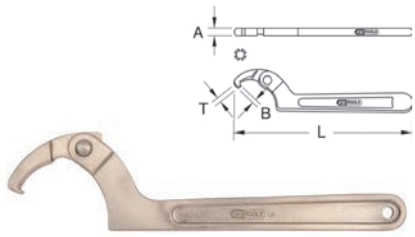
- In accordance to DIN 1810 Form B
- With spigot for for cross drilled nuts to DIN 1816
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	Span width mm	A mm	B mm	L mm	T mm	kg
963.8210	12-14	3,0	1,5	110,0	2,0	0,03
963.8211	16-20	3,0	2	110,0	2,5	0,03
963.8212	25-28	4,0	2,5	135,0	3,0	0,05
963.8213	30-32	4,0	2,5	135,0	4,0	0,05
963.8214	34-36	5,0	3	170,0	4,0	0,10
963.8215	40-42	5,0	3	170,0	4,0	0,10
963.8216	45-50	6,0	3,5	205,0	5,0	0,19
963.8217	52-55	6,0	3,5	205,0	5,0	0,19
963.8218	58-62	7,0	4	240,0	5,0	0,24
963.8219	68-75	7,0	4	240,0	6,0	0,20
963.8220	80-90	8,0	5	280,0	6,0	0,41
963.8221	95-100	8,0	5	280,0	8,0	0,41
963.8222	110-115	10,0	6	335,0	8,0	0,73
963.8223	120-130	10,0	6	335,0	8,0	0,73
963.8224	135-145	12,0	7	390,0	8,0	1,15
963.8225	155-165	12,0	7	390,0	8,0	1,15
963.8226	180-195	14,0	8	465,0	10,0	1,41
963.8227	205-220	14,0	8	465,0	10,0	1,84

BRONZE*plus* pivot hook wrench with pin

- In accordance to DIN 1810 Form A
- With pin for for slotted nuts to DIN 981
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	Span width mm	A mm	B mm	L mm	T mm	g
963.8207	32-75	8,0	6,0	205,0	5,0	230
963.8208	50-120	10,0	7,0	285,0	6,0	450
963.8209	115-170	12,0	10,0	310,0	7,0	500

NON SPARKING SPECIAL BITS

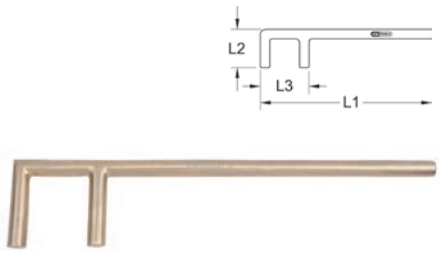
BRONZE*plus* Slide claw

- Handle insulated with plastic against cold
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

	mm	L mm	g
963.8228	30-40	500,0	720

BRONZE*plus* valve hook

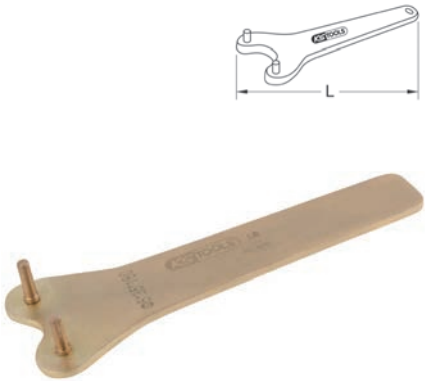
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	Ø mm	L1 mm	L2 mm	L3 mm	kg
963.8229	13	300,0	50,0	30,0	0,35
963.8230	13	350,0	55,0	35,0	0,60
963.8231	16	400,0	60,0	40,0	0,68
963.8232	16	450,0	65,0	45,0	1,10
963.8233	19	500,0	70,0	50,0	1,20
963.8234	22	600,0	75,0	60,0	2,00
963.8235	25	700,0	80,0	70,0	3,00
963.8236	28	800,0	85,0	80,0	5,30

BRONZE*plus* Face pin spanner

- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	Pin key mm	Stud Ø mm	L mm	g
963.8237	35,0	5,0	180,0	150

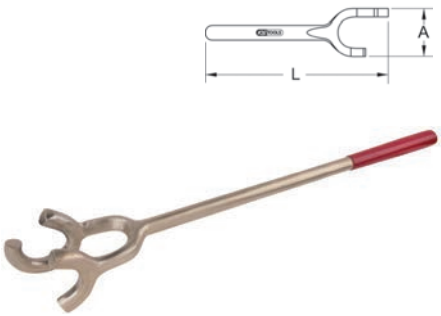
BRONZE*plus* Adjustable face pin spanner

- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

	Stud Ø mm	Zapfenhöhe mm	Length mm	g
963.0029	3,0	4,0	160,0	75

BRONZE*plus* hand key

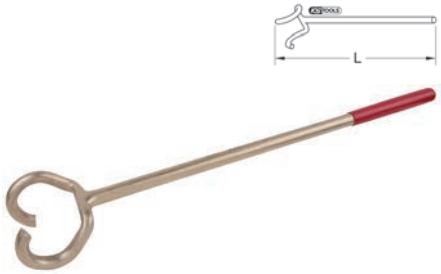
- In accordance to DIN 87311
- Handle insulated with plastic against cold
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	Ø mm	A mm	L mm	kg
963.8238	36x60	60,0	370,0	0,65
963.8239	48x80	80,0	430,0	2,60
963.8240	62x102	102,0	550,0	1,30

BRONZE*plus* B-hand key

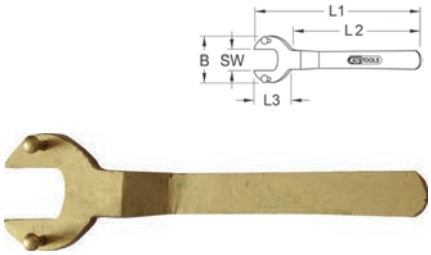
- In accordance to DIN 87311
- Handle insulated with plastic against cold
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	Ø mm	L mm	kg
963.8241	36x60	330,0	0,60
963.8242	48x80	470,0	1,40
963.8243	62x102	600,0	2,60

BRONZE*plus* Spanner for tanker valve

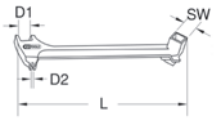
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	Type	mm	Stud Ø mm	B mm	L1 mm	L2 mm	L3 mm	kg
963.8244	A	64,0 x 32,0	20,0	90,0	660,0	500,0	160,0	1,80
963.8245	B	64,0 x 32,0	20,0	90,0	650,0	500,0	150,0	1,60
963.8246	C	95,0 x 47,5	20,0	90,0	690,0	500,0	190,0	2,50

BRONZE*plus* universal barrel key

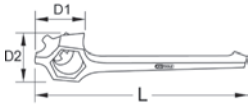
- For 22 barrel clasps
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	mm	L mm	D1 mm	D2 mm	kg
963.8270	18 x 22	380,0	27,0	6,0	1,25

BRONZE*plus* universal barrel key

- For current plug cover caps
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	D1 mm	D2 mm	L mm	g
963.8271	38,0	52,0	300,0	600

BRONZE*plus* universal barrel key

- For current barrel clasps
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

	D1 mm	D2 mm	D3 mm	D4 mm	L mm	kg
963.8272	70,0	70,0	65,0	95,0	400,0	1,70

BRONZE*plus* Sewer lid hook

- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

	L mm	g
963.8273	500,0	770

BRONZE*plus* Sewer lid hook, reinforced

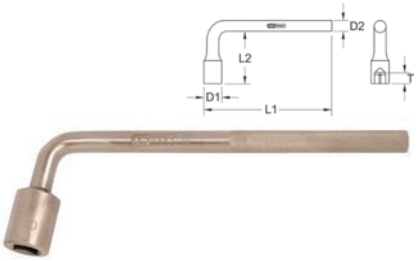
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

	L mm	kg
963.8274	700,0	1,20

NON SPARKING BOX SPANNERS

BRONZE*plus* box spanner, offset

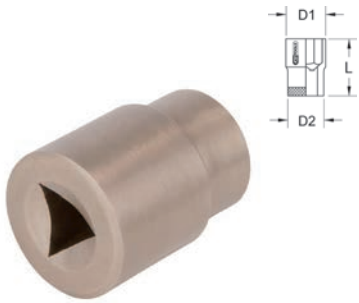
- 4 point
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	mm	D1 mm	D2 mm	L1 mm	L2 mm	T mm	g
963.8247	8	18,0	8,0	150,0	33,0	15,0	90
963.8248	9	20,0	8,0	160,0	35,0	15,0	100
963.8249	10	22,0	8,0	175,0	37,0	15,0	120
963.8250	12	24,0	10,0	215,0	42,0	18,0	220
963.8251	13	26,0	10,0	230,0	45,0	18,0	280
963.8252	14	27,0	12,0	240,0	45,0	18,0	280
963.8253	17	32,0	14,0	280,0	51,0	22,0	330

BRONZE*plus* socket

- 3-point
- In accordance to DIN 3124 / ISO 2725-1
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	mm	D1 mm	D2 mm	L mm	g
963.8254	6	16,0	25,0	40,0	70
963.8255	8	18,0	25,0	40,0	80
963.8256	10	22,0	25,0	40,0	80
963.8257	12	24,0	25,0	40,0	90
963.8258	16	30,0	25,0	50,0	150
963.8259	20	37,0	28,0	50,0	220
963.8260	25	44,0	32,0	60,0	400

BRONZE*plus* socket

- 3-point
- In accordance to DIN 22417
- With pushed through, movable drive handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

	mm	L mm	kg
963.8261	4	95,0	0,08
963.8262	5	110,0	0,10
963.8263	6	115,0	0,17
963.8264	8	125,0	0,28
963.8265	10	140,0	0,39
963.8266	12	160,0	0,70
963.8267	16	180,0	0,98
963.8268	20	200,0	2,10
963.8269	24	220,0	3,10

BRONZE*plus* box spanner

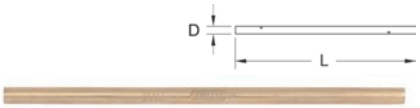
- 6 point
- For use with tommy bar
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

	mm	L mm		kg
963.8275	8	190,0	1	0,11
963.8276	9	200,0	1	0,20
963.8277	10	215,0	1	0,16
963.8278	11	230,0	2	0,21
963.8279	12	250,0	2	0,26
963.8280	13	265,0	3	0,35
963.8281	14	265,0	3	0,35
963.8282	15	280,0	3	0,40
963.8283	16	280,0	3	0,40
963.8284	17	300,0	4	0,45
963.8285	18	300,0	4	0,45
963.8286	19	325,0	4	0,65
963.8287	20	325,0	4	0,65
963.8288	21	350,0	4	0,83
963.8289	22	350,0	4	0,83
963.8290	23	380,0	5	1,14
963.8291	24	380,0	5	1,14
963.8292	25	415,0	5	1,45
963.8293	26	415,0	5	1,45
963.8294	27	415,0	5	1,45
963.8295	28	450,0	6	1,80
963.8296	29	450,0	6	1,80
963.8297	30	450,0	6	1,80
963.8298	32	485,0	6	2,45
963.8299	33	485,0	6	2,45
963.8300	34	485,0	6	2,45

	mm	L mm		kg
963.8301	35	530,0	7	3,30
963.8302	36	530,0	7	3,30
963.8303	37	530,0	7	3,30
963.8304	38	530,0	7	3,30
963.8305	41	580,0	8	4,00
963.8306	42	580,0	8	4,00
963.8307	46	635,0	8	4,80
963.8308	47	635,0	8	4,80
963.8309	50	320,0	9,10	4,90
963.8310	52	320,0	9,10	4,90
963.8311	54	340,0	9,10	6,50
963.8312	55	340,0	9,10	6,50
963.8313	56	340,0	9,10	6,50
963.8314	58	360,0	9,10	8,30
963.8315	60	360,0	9,10	8,30
963.8316	63	360,0	9,10	8,30
963.8317	65	380,0	11	10,50
963.8318	67	380,0	11	10,50
963.8319	70	380,0	11	10,50
963.8320	71	380,0	11	10,50
963.8321	75	400,0	11	14,30
963.8322	77	400,0	11	14,30
963.8323	80	400,0	11	14,30
963.8324	82	400,0	11	14,30
963.8325	85	425,0	12	19,20
963.8326	88	425,0	12	19,20
963.8327	90	425,0	12	19,20
963.8328	94	455,0	12	26,00
963.8329	95	455,0	12	26,00
963.8330	100	455,0	12	26,00

BRONZE*plus* Tommy bar for box spanner

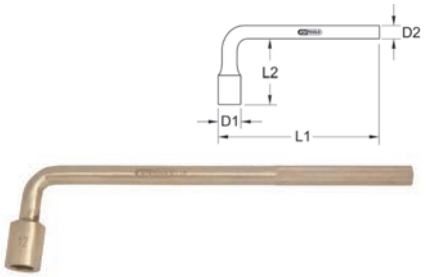
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	mm	D mm	L mm	#	kg
963.8331	10	6,0	150,0	1	0,04
963.8332	12	8,0	190,0	2	0,10
963.8333	16	10,0	190,0	3	0,09
963.8334	22	10,0	250,0	4	0,18
963.8335	27	12,0	315,0	5	0,31
963.8336	34	16,0	400,0	6	0,60
963.8337	38	16,0	500,0	7	0,92
963.8338	47	20,0	630,0	8	1,60
963.8339	63	24,0	800,0	9	2,70
963.8340	63	24,0	1000,0	10	3,50
963.8341	82	30,0	1250,0	11	6,00
963.8342	100	36,0	1600,0	12	12,00

BRONZE*plus* box spanner, offset

- 6 point
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

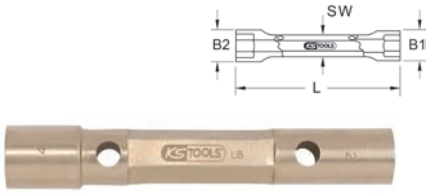


	mm	D1 mm	D2 mm	L1 mm	L2 mm	kg
963.8343	8	16,0	8,0	175,0	30,0	0,10
963.8344	9	17,0	8,0	185,0	33,0	0,12

	mm	D1 mm	D2 mm	L1 mm	L2 mm	kg
963.8345	10	18,0	8,0	195,0	37,0	0,14
963.8346	11	20,0	9,0	205,0	42,0	0,18
963.8347	12	21,0	9,0	220,0	42,0	0,22
963.8348	13	22,0	10,0	240,0	45,0	0,28
963.8349	14	22,0	10,0	240,0	45,0	0,28
963.8350	15	25,0	11,0	250,0	48,0	0,30
963.8351	16	25,0	11,0	250,0	48,0	0,30
963.8352	17	27,0	12,0	270,0	51,0	0,32
963.8353	18	27,0	12,0	270,0	53,0	0,32
963.8354	19	30,0	12,0	290,0	55,0	0,53
963.8355	20	30,0	12,0	290,0	57,0	0,53
963.8356	21	32,0	12,0	310,0	57,0	0,68
963.8357	22	32,0	12,0	310,0	59,0	0,68
963.8358	23	35,0	14,0	335,0	63,0	0,83
963.8359	24	35,0	14,0	335,0	63,0	0,83
963.8360	25	39,0	14,0	365,0	69,0	1,00
963.8361	26	39,0	14,0	365,0	69,0	1,00
963.8362	27	39,0	14,0	365,0	69,0	1,00
963.8363	28	43,0	15,0	395,0	72,0	1,30
963.8364	29	43,0	15,0	395,0	72,0	1,30
963.8365	30	43,0	15,0	395,0	72,0	1,30
963.8366	32	47,0	16,0	425,0	75,0	1,70
963.8367	33	47,0	16,0	425,0	75,0	1,70
963.8368	34	47,0	18,0	425,0	75,0	1,70
963.8369	35	52,0	18,0	465,0	80,0	2,80
963.8370	36	52,0	18,0	465,0	80,0	2,80
963.8371	37	52,0	18,0	465,0	80,0	2,80
963.8372	38	52,0	18,0	465,0	80,0	2,80
963.8373	41	58,0	20,0	510,0	85,0	3,60
963.8374	42	58,0	20,0	510,0	85,0	3,60
963.8375	46	65,0	21,0	555,0	90,0	4,00
963.8376	47	65,0	21,0	555,0	90,0	4,00
963.8377	50	72,0	22,0	605,0	93,0	4,80
963.8378	52	72,0	22,0	605,0	93,0	4,80
963.8379	54	76,0	24,0	660,0	97,0	6,40
963.8380	55	76,0	24,0	660,0	97,0	6,40
963.8381	56	76,0	24,0	660,0	97,0	6,40
963.8382	58	84,0	25,0	730,0	103,0	8,20
963.8383	60	84,0	25,0	730,0	103,0	8,20
963.8384	63	89,0	25,0	730,0	103,0	8,20
963.8385	65	89,0	27,0	800,0	108,0	10,40
963.8386	67	95,0	27,0	800,0	108,0	10,40
963.8387	70	95,0	27,0	800,0	115,0	10,40
963.8388	71	95,0	27,0	800,0	115,0	10,40
963.8389	75	105,0	30,0	880,0	120,0	14,10
963.8390	77	105,0	30,0	880,0	120,0	14,10
963.8391	80	112,0	30,0	880,0	125,0	14,10
963.8392	82	112,0	30,0	880,0	125,0	14,10

BRONZE*plus* box spanner, double sided

- 6 point
- For use with open ended spanner or tommy bar
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	mm	B1 mm	B2 mm	mm	L mm		kg
963.8393	7x8	14,0	15,0	10	95,0	1	0,05
963.8394	9x10	16,0	18,0	10	105,0	2	0,07
963.8395	10x11	18,0	19,0	14	120,0	2	0,18
963.8396	12x14	21,0	22,0	17	135,0	3	0,16
963.8397	14x17	24,0	27,0	17	150,0	3	0,36
963.8398	17x19	27,0	30,0	19	160,0	4	0,28
963.8399	19x22	30,0	32,0	22	170,0	4	0,58
963.8400	20x22	32,0	39,0	22	170,0	4	0,58
963.8401	24x26	35,0	39,0	24	180,0	5	0,48
963.8402	24x27	35,0	39,0	24	190,0	5	0,53
963.8403	27x32	39,0	47,0	27	200,0	6	0,87
963.8404	30x32	43,0	47,0	27	210,0	6	0,89
963.8405	30x36	43,0	52,0	30	220,0	6	1,08
963.8406	36x41	52,0	58,0	32	230,0	6	1,70

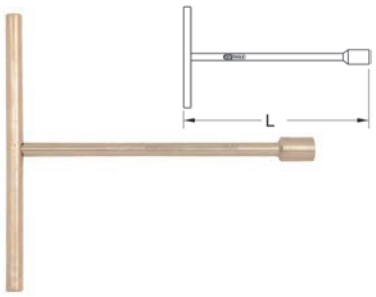
BRONZE*plus* Tommy bar for box spanner

- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

	D mm	L mm	mm	#	g
963.8407	5,0	110,0	7x8	1	20
963.8408	6,0	150,0	10x11	2	40
963.8409	10,0	220,0	14x17	3	120
963.8410	12,0	300,0	20x22	4	300
963.8411	15,0	390,0	24x27	5	480
963.8412	16,0	500,0	36x41	6	750

BRONZE*plus* Hexagonal socket spanner firm sliding bar

- 6 point
- With fixed drive handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

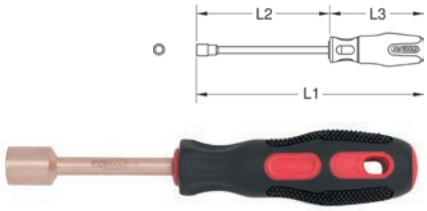


	mm	L mm	kg
963.8413	8	196,0	0,14
963.8414	9	209,0	0,25
963.8415	10	223,0	0,19
963.8416	11	240,0	0,26
963.8417	12	256,0	0,31
963.8418	13	275,0	0,41
963.8419	14	275,0	0,41
963.8420	15	292,0	0,40
963.8421	16	292,0	0,45
963.8422	17	314,0	0,50
963.8423	18	314,0	0,55
963.8424	19	339,0	0,55
963.8425	20	339,0	0,55
963.8426	21	376,0	1,05
963.8427	22	376,0	1,05
963.8428	23	393,0	1,24
963.8429	24	393,0	1,24
963.8430	25	431,0	1,70
963.8431	26	431,0	1,70
963.8432	27	431,0	1,70
963.8433	28	464,0	2,10
963.8434	29	464,0	2,10
963.8435	30	464,0	2,10
963.8436	32	506,0	2,75
963.8437	33	506,0	2,75
963.8438	34	506,0	2,75
963.8439	35	550,0	4,00
963.8440	36	550,0	4,00
963.8441	37	550,0	4,00
963.8442	38	550,0	4,00
963.8443	41	600,0	5,40
963.8444	42	600,0	5,40
963.8445	46	655,0	6,00
963.8446	47	655,0	6,00
963.8447	50	345,0	6,30
963.8448	52	345,0	6,30
963.8449	54	365,0	8,00
963.8450	55	365,0	8,00
963.8451	56	365,0	8,00

	mm	L mm	kg
963.8452	58	390,0	10,50
963.8453	60	390,0	10,50
963.8454	63	390,0	10,50
963.8455	65	410,0	14,00
963.8456	67	410,0	14,00
963.8457	70	410,0	14,00
963.8458	71	410,0	14,00
963.8459	75	430,0	19,00
963.8460	77	430,0	19,00
963.8461	80	430,0	19,00
963.8462	82	430,0	19,00

BERYLLIUM*plus* socket screwdriver

- 6 point
- Two component handle
- Optimal power transmission
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)

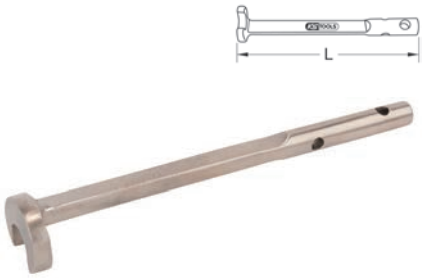


	mm	L1 mm	L2 mm	L3 mm	g
962.0970	3,5	175,0	75,0	100,0	80
962.0971	4,5	180,0	80,0	100,0	80
962.0972	5	180,0	80,0	100,0	60
962.0973	5,5	185,0	85,0	100,0	60
962.0974	6	190,0	90,0	100,0	80
962.0975	6,5	190,0	90,0	100,0	90
962.0976	7	190,0	90,0	100,0	80
962.0977	7,5	200,0	100,0	100,0	80
962.0978	8	200,0	100,0	100,0	100
962.0979	9	210,0	110,0	100,0	100
962.0980	10	210,0	110,0	100,0	150
962.0981	11	220,0	110,0	110,0	150
962.0982	12	220,0	110,0	110,0	130
962.0983	13	230,0	120,0	110,0	170
962.0984	14	230,0	120,0	110,0	210
962.0985	15	240,0	130,0	110,0	210
962.0986	16	240,0	130,0	110,0	260
962.0987	17	250,0	130,0	120,0	280

		L1 mm	L2 mm	L3 mm	g
962.0988	1/8"	175,0	75,0	100,0	10
962.0989	5/32"	180,0	80,0	100,0	70
962.0990	3/16"	185,0	85,0	100,0	60
962.0991	7/32"	190,0	90,0	100,0	80
962.0992	1/4"	190,0	90,0	100,0	80
962.0993	5/16"	210,0	100,0	110,0	100
962.0994	3/8"	220,0	110,0	110,0	100
962.0995	7/16"	230,0	120,0	110,0	170
962.0996	1/2"	230,0	120,0	110,0	210
962.0997	9/16"	240,0	120,0	120,0	120
962.0998	5/8"	250,0	130,0	120,0	150
962.0999	11/16"	250,0	130,0	120,0	240

BRONZE*plus* Pronged wrench

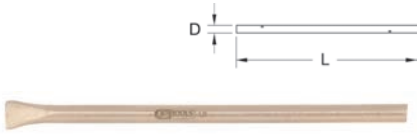
- Light work in inaccessible places
- For use with tommy bar
- Jaw 90° offset
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	mm	L mm		kg
963.8463	13	160,0	1	0,10
963.8464	14	160,0	1	0,10
963.8465	15	200,0	1	0,17
963.8466	16	200,0	2	0,17
963.8467	17	200,0	2	0,17
963.8468	18	200,0	2	0,19
963.8469	19	200,0	3	0,22
963.8470	20	200,0	3	0,25
963.8471	21	200,0	3	0,26
963.8472	22	200,0	3	0,30
963.8473	23	200,0	4	0,35
963.8474	24	250,0	4	0,40
963.8475	25	250,0	4	0,40
963.8476	26	250,0	4	0,45
963.8477	27	250,0	4	0,45
963.8478	28	250,0	5	0,50
963.8479	29	250,0	5	0,55
963.8480	30	250,0	5	0,60
963.8481	32	250,0	5	0,65
963.8482	36	250,0	6	0,70
963.8483	41	315,0	6	1,15
963.8484	46	315,0	7	1,23
963.8485	50	315,0	7	1,50

BRONZE*plus* Tommy bar for pronged wrench

- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



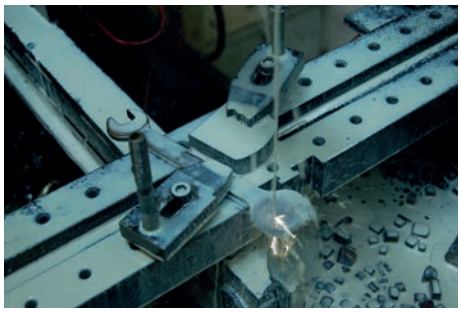
	mm	D mm	L mm	#	kg
963.8486	13-15	8,0	160,0	1	0,07
963.8487	16-18	10,0	200,0	2	0,13
963.8488	19-22	12,0	200,0	3	0,22
963.8489	23-27	14,0	250,0	4	0,40
963.8490	28-32	16,0	250,0	5	0,60
963.8491	36-41	18,0	315,0	6	1,00
963.8492	46-50	20,0	315,0	7	1,60

BRONZE*plus* Crawfoot wrench, hexagonal

- 6 point
- Internal square drive
- For manual operation
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

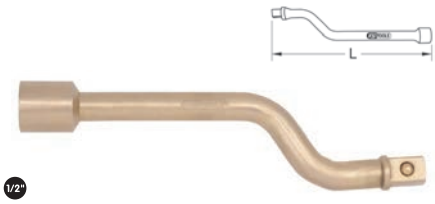
1/2"

	mm	L mm	T mm	g
963.8493	13	40,0	15,0	50
963.8494	14	40,0	15,0	50
963.8495	15	43,0	20,0	80
963.8496	16	43,0	20,0	80
963.8497	17	43,0	20,0	80
963.8498	18	49,0	22,0	110
963.8499	19	49,0	22,0	120
963.8500	20	49,0	22,0	130
963.8501	21	52,0	26,0	150
963.8502	22	52,0	26,0	170
963.8503	23	52,0	29,0	200
963.8504	24	55,0	29,0	200
963.8505	25	55,0	32,0	220
963.8506	26	59,0	32,0	220
963.8507	27	59,0	32,0	250
963.8508	28	59,0	32,0	270
963.8509	29	63,0	34,0	300
963.8510	30	63,0	34,0	320
963.8511	32	67,0	37,0	350
963.8512	36	76,0	42,0	570
963.8513	41	86,0	48,0	620
963.8514	46	97,0	55,0	750
963.8515	50	105,0	60,0	800



BRONZE*plus* Special extender for crowfoot spanner

- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



1/2"

	□	L mm	g
963.8516	1/2	150,0	200
963.8517	1/2	250,0	400

NON SPARKING FRICTION RATCHETS

BRONZE*plus* Construction ratchet

- 6 point
- With centring point
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

	mm	L mm	kg
963.1105	17	230,0	0,62
963.1106	19	240,0	0,65
963.1107	21	250,0	0,83
963.1108	22	260,0	0,83
963.1109	24	270,0	1,02
963.1110	26	280,0	1,05
963.1111	27	285,0	1,10
963.1112	30	300,0	1,32
963.1113	32	315,0	1,10
963.1114	35	325,0	1,63
963.1115	36	330,0	1,67
963.1116	41	330,0	1,95

BERYLLIUM*plus* Friction ratchet

- 12 point
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

	mm	L mm	kg
962.0109	9	150,0	0,15
962.0111	11	150,0	0,15
962.0113	13	155,0	0,16
962.0114	14	155,0	0,16
962.0117	17	200,0	0,26
962.0119	19	200,0	0,26
962.0122	22	220,0	0,34
962.0124	24	220,0	0,34
962.0127	27	245,0	0,56
962.0130	30	280,0	0,84
962.0132	32	280,0	0,84
962.0136	36	290,0	1,18
962.0141	41	295,0	1,23
962.0146	46	360,0	2,06
962.0150	50	360,0	2,23
962.0155	55	440,0	2,90
962.0160	60	440,0	2,90

1/4" DRIVE NON SPARKING SOCKETS

BERYLLIUM*plus* socket

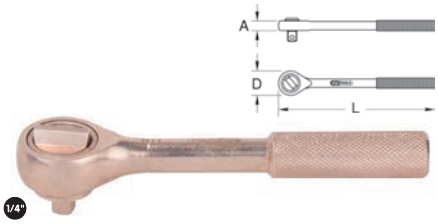
- 6 point
- In accordance to DIN 3124 / ISO 2725-1
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)

1/4"

	mm	D1 mm	D2 mm	L mm	g
962.1404	4,0	10,0	15,0	25,0	10
962.14045	4,5	10,0	15,0	25,0	10
962.1405	5,0	11,0	15,0	25,0	10
962.14055	5,5	11,0	15,0	25,0	10
962.1406	6,0	12,0	15,0	25,0	10
962.1407	7,0	13,0	15,0	25,0	10
962.1408	8,0	14,0	15,0	25,0	20
962.1409	9,0	15,0	15,0	25,0	20
962.1410	10,0	16,0	15,0	25,0	20
962.1411	11,0	18,0	15,0	25,0	20
962.1412	12,0	19,0	15,0	27,0	30
962.1413	13,0	20,0	15,0	27,0	30
962.1414	14,0	22,0	15,0	27,0	30

BERYLLIUM*plus* reversible ratchet

- In accordance to DIN 3122 / ISO 3315
- Square drive to DIN 3120 / ISO 1174 with ball lock
- Reversible
- Gearing with 45 teeth
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)

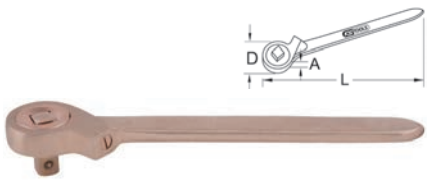


1/4"

	■	A mm	D mm	L mm	g
962.1490	1/4"	15,0	30,0	150,0	200

BERYLLIUM*plus* Ratchet handle with coupler

- Square drive to DIN 3120 / ISO 1174 with ball lock
- The direction of rotation (clockwise and counter clockwise) can be changed by simply rotating the square drive piece
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)



1/4"

	■	A mm	D mm	L mm	g
962.1491	1/4"	14,0	36,0	150,0	320

BERYLLIUM*plus* Coupler

- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)

1/4"

	■	L mm	g
962.1475	1/4"	25,0	10

BERYLLIUM*plus* Extension

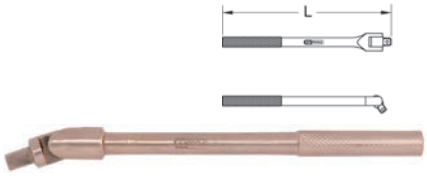
- Square drive to DIN 3120 / ISO 1174 with ball lock
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)

1/4"

	■	L mm	g
962.1450	1/4"	55,0	20
962.1451	1/4"	100,0	60
962.1452	1/4"	200,0	100

BERYLLIUM*plus* Swivel handle

- Square drive to DIN 3120 / ISO 1174 with ball lock
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)

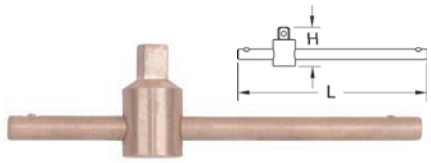


1/4"

	■	L mm	g
962.1455	1/4"	165,0	160
962.1456	1/4"	215,0	350

BERYLLIUM*plus* sliding T-handle

- In accordance to DIN 3122 / ISO 3315
- Square drive to DIN 3120 / ISO 1174 with ball lock
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)

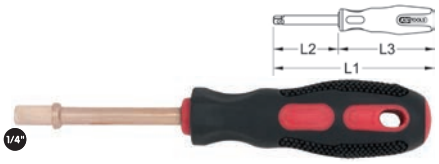


1/4"

	■	H mm	L mm	g
962.1460	1/4"	28,0	200,0	160

BERYLLIUM*plus* Square drive screwdriver

- Square drive to DIN 3120 / ISO 1174 with ball lock
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)

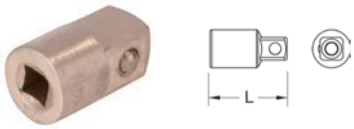


1/4"

	■	L1 mm	L2 mm	L3 mm	g
962.1465	1/4"	140,0	55,0	85,0	90

BERYLLIUM*plus* adaptor and reducing adaptor

- In accordance to DIN 3123 / ISO 3316
- Square drive to DIN 3120 / ISO 1174 with ball lock
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)



1/4"

	□	■	L mm	g
962.1470	1/4"	1/2"	30,0	40
963.1280	1/2"	1/4"	40,0	60

BERYLLIUM*plus* universal joint

- In accordance to DIN 3123 / ISO 3316
- Square drive to DIN 3120 / ISO 1174 with ball lock
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)

1/4"

	□	■	L mm	g
962.1480	1/4"	1/4"	55,0	70

BERYLLIUM*plus* Socket set

- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)
- In durable plastic storage case

1/4"

			g
962.1485	15 pcs	BERYLLIUM*plus* Socket set	1000
13 x		4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 12 - 13 - 14 mm	
1 x		100 mm	
1 x		250 mm	

1/2" DRIVE NON SPARKING SOCKETS

BRONZE*plus* socket

- 6 point
- In accordance to DIN 3124 / ISO 2725-1
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

1/2"

	⬢ mm	D1 mm	D2 mm	L mm	g
963.1204	6	14,0	24,0	40,0	70
963.1205	7	14,0	24,0	40,0	80
963.1206	8	15,0	24,0	40,0	50
963.1207	9	16,0	24,0	40,0	50
963.1208	10	17,0	24,0	40,0	50
963.1209	11	19,0	24,0	40,0	50
963.1210	12	20,0	24,0	40,0	50
963.1211	13	20,0	24,0	40,0	50
963.1212	14	24,0	24,0	40,0	80
963.1213	15	25,0	25,0	40,0	90
963.1214	16	25,0	25,0	40,0	60
963.1215	17	26,0	26,0	40,0	90
963.1216	18	29,0	27,0	40,0	120
963.1217	19	30,0	28,0	40,0	130
963.1218	20	31,0	28,0	40,0	130
963.1219	21	32,0	28,0	40,0	100
963.1220	22	33,0	28,0	40,0	110
963.1221	23	34,0	31,0	40,0	120
963.1222	24	35,0	31,0	40,0	150
963.1223	25	36,0	32,0	40,0	130
963.1224	26	37,0	34,0	40,0	180
963.1225	27	38,0	34,0	40,0	150
963.1226	28	40,0	36,0	40,0	200
963.1227	29	42,0	36,0	40,0	220
963.1228	30	43,0	40,0	40,0	250
963.1229	32	45,0	42,0	42,0	240
963.1230	34	48,0	42,0	50,0	300
963.1231	36	50,0	42,0	50,0	380
963.1341	41	57,0	44,0	50,0	560

	⬢	D1 mm	D2 mm	L mm	g
963.1249	1/4"	15,0	24,0	40,0	50
963.1250	5/16"	15,0	24,0	40,0	50
963.1251	11/32"	16,0	24,0	40,0	50
963.1252	3/8"	17,0	24,0	40,0	50
963.1253	13/32"	18,0	24,0	40,0	50
963.1254	7/16"	19,0	24,0	40,0	50
963.1255	1/2"	21,0	24,0	40,0	50
963.1256	9/16"	23,0	24,0	40,0	80
963.1257	19/32"	24,0	24,0	40,0	90
963.1258	5/8"	26,0	26,0	40,0	60
963.1259	11/16"	28,0	26,0	40,0	90
963.1260	3/4"	29,0	26,0	40,0	130
963.1261	25/32"	31,0	26,0	40,0	130
963.1262	13/16"	32,0	26,0	40,0	130
963.1263	7/8"	33,0	28,0	40,0	110
963.1264	15/16"	35,0	31,0	40,0	120
963.1265	1"	36,0	34,0	40,0	130
963.1266	1.1/16"	39,0	34,0	40,0	150
963.1267	1.1/8"	41,0	36,0	40,0	220
963.1268	1.3/16"	43,0	40,0	40,0	250
963.1269	1.1/4"	45,0	42,0	42,0	240

BRONZE*plus* socket, long

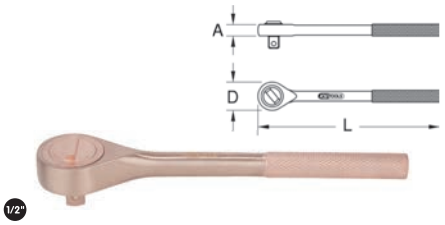
- 6 point
- In accordance to DIN 3124 / ISO 2725-1
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

1/2"

	mm	D1 mm	D2 mm	L mm	g	
963.1232	10	19,0	25,0	77,0	110	
963.1233	12	20,0	25,0	77,0	170	
963.1234	13	21,0	25,0	77,0	170	
963.1235	14	22,0	25,0	77,0	110	
963.1236	15	25,0	25,0	77,0	120	
963.1237	16	25,0	25,0	77,0	170	
963.1238	17	27,0	27,0	77,0	140	
963.1239	18	28,0	28,0	82,0	250	
963.1240	19	30,0	28,0	82,0	180	
963.1241	21	32,0	28,0	82,0	260	
963.1242	22	33,0	28,0	82,0	210	
963.1243	24	36,0	30,0	82,0	250	
963.1244	27	40,0	30,0	82,0	400	
963.1245	30	44,0	32,0	82,0	510	
963.1246	32	46,0	32,0	82,0	550	
963.1247	34	48,0	34,0	82,0	710	
963.1248	36	50,0	34,0	82,0	760	

BERYLLIUM*plus* reversible ratchet

- In accordance to DIN 3122 / ISO 3315
- Square drive to DIN 3120 / ISO 1174 with ball lock
- Reversible
- Gearing with 45 teeth
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)



1/2"

	■	A mm	D mm	L mm	g	
962.1290	1/2"	23,0	54,0	250,0	590	

BERYLLIUM*plus* Ratchet handle with coupler

- Square drive to DIN 3120 / ISO 1174 with ball lock
- The direction of rotation (clockwise and counter clockwise) can be changed by simply rotating the square drive piece
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)

1/2"

	■	A mm	D mm	L mm	g	
962.1291	1/2"	17,0	45,0	250,0	430	

BRONZE*plus* Coupler

- Square drive to DIN 3120 / ISO 1174 with ball lock
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

1/2"

	■	L mm	g	
963.1281	1/2"	36,5	50	

BRONZE*plus* extension

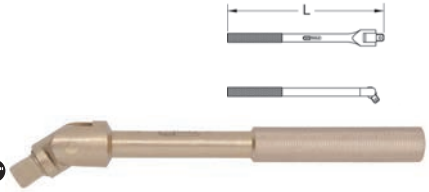
- In accordance to DIN 3123 / ISO 3316
- Square drive to DIN 3120 / ISO 1174 with ball lock
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

1/2"

	■	L mm	g	
963.1270	1/2"	100,0	180	
963.1271	1/2"	200,0	270	
963.1272	1/2"	250,0	360	

BRONZE*plus* flexi drive handle

- In accordance to DIN 3122 / ISO 3315
- Square drive to DIN 3120 / ISO 1174 with ball lock
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

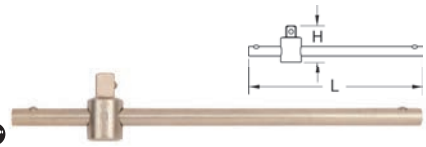


1/2"

	■	L mm	g	
963.1273	1/2"	215,0	350	
963.1274	1/2"	250,0	560	
963.1275	1/2"	300,0	920	
963.1276	1/2"	380,0	590	

BRONZE*plus* sliding T-handle

- In accordance to DIN 3122 / ISO 3315
- Square drive to DIN 3120 / ISO 1174 with ball lock
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



1/2"

	■	H mm	L mm	g	
963.1277	1/2"	46,0	250,0	450	
963.1278	1/2"	46,0	320,0	550	

BRONZE*plus* adaptor and reducing adaptor

- In accordance to DIN 3123 / ISO 3316
- Square drive to DIN 3120 / ISO 1174 with ball lock
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

1/2" 3/4"

	□	■	L mm	g	
963.1279	1/2"	3/4"	22,0	120	
963.1280	1/2"	1/4"	40,0	60	

BRONZE*plus* universal joint

- In accordance to DIN 3123 / ISO 3316
- Square drive to DIN 3120 / ISO 1174 with ball lock
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

1/2"

	□	■	L mm	g	
963.1282	1/2	1/2"	70,0	170	

BRONZE*plus* L-Handle

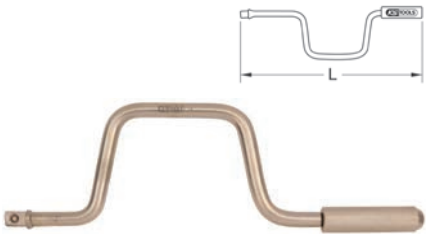
- In accordance to DIN ISO 2936
- Square drive to DIN 3120 / ISO 1174 with ball lock
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

1/2"

	■	L mm	g	
963.1283	1/2"	220,0	260	
963.1284	1/2"	260,0	400	

BRONZE*plus* Speed brace

- Square drive to DIN 3120 / ISO 1174 with ball lock
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

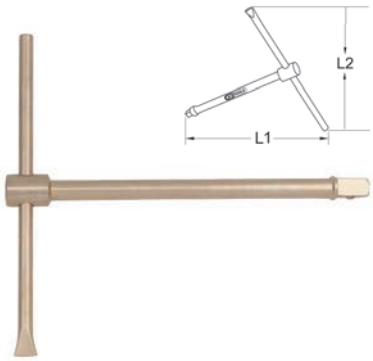


1/2"

	■	L mm	g
963.1285	1/2"	410,0	700

BRONZE*plus* T-handle

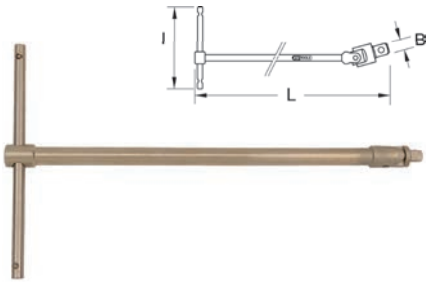
- In accordance to DIN 3122 / ISO 3315
- Square drive to DIN 3120 / ISO 1174 with ball lock
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	■	L1 mm	L2 mm	g
963.1286	1/2"	245,0	220,0	500

BRONZE*plus* T-handle

- In accordance to DIN 3122 / ISO 3315
- Square drive in accordance to DIN 3122 / ISO 1174 with ball lock
- With flexible head
- For difficult to access areas
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



1/2"

	■	B mm	I mm	L mm	g
963.1287	1/2"	12,5	250,0	460,0	760

BRONZE*plus* Bit socket for slotted screws

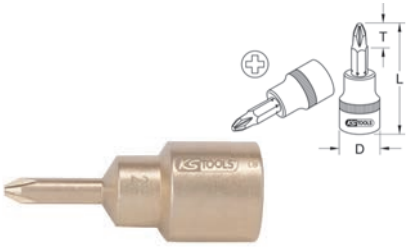
- Slotted
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

1/2"

	⬢ mm	D mm	L mm	T mm	g
963.1292	4,0	25,0	60,0	9,0	140
963.1293	6,0	25,0	60,0	9,0	140
963.1294	8,0	25,0	60,0	9,0	140
963.1295	10,0	25,0	60,0	9,0	140

BRONZE*plus* Bit socket for phillips head screws PH

- PH
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



1/2"

		D mm	L mm	T mm	g
963.1296	PH 1	25,0	60,0	8,0	140
963.1297	PH 2	25,0	60,0	8,0	140
963.1298	PH 3	25,0	60,0	8,0	140
963.1299	PH 4	25,0	60,0	8,0	140

BRONZE*plus* Bit socket for hexagon screws

- Hexagon socket
- In accordance with DIN 7422
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

1/2"

	⬢ mm	D mm	L mm	T mm	g
963.1300	4	25,0	60,0	12,0	110
963.1301	5	25,0	60,0	12,0	70
963.1302	6	25,0	60,0	12,0	70
963.1303	7	25,0	60,0	12,0	110
963.1304	8	25,0	60,0	12,0	80
963.1305	9	25,0	60,0	12,0	110
963.1306	10	25,0	60,0	12,0	110
963.1307	12	25,0	60,0	12,0	120
963.1308	14	25,0	60,0	12,0	130
963.1309	17	25,0	60,0	12,0	140
963.1310	19	25,0	60,0	12,0	230

BRONZE*plus* Bit socket for hexagon screws, long

- Hexagon socket
- In accordance with DIN 7422
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

1/2"

	⬢ mm	D mm	L mm	T mm	g
963.1311	5	25,0	90,0	12,0	90
963.1312	5	25,0	180,0	12,0	100
963.1313	6	25,0	90,0	12,0	80
963.1314	6	25,0	140,0	12,0	120
963.1315	6	25,0	160,0	12,0	130
963.1316	7	25,0	100,0	12,0	90
963.1317	8	25,0	90,0	12,0	90
963.1318	8	25,0	120,0	12,0	160
963.1319	10	25,0	140,0	12,0	150
963.1320	12	25,0	140,0	12,0	190
963.1321	14	25,0	140,0	12,0	250

BRONZE*plus* Socket set

- 6 point
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)
- In durable plastic storage case

1/2"

			kg
963.1288	11 pcs	BRONZE*plus* Socket set	5,30
9 x		10 - 11 - 13 - 14 - 15 - 17 - 19 - 22 - 24 mm	
1 x		100 mm	
1 x		250 mm	

			kg
963.1289	23 pcs	BRONZE*plus* Socket set	4,10
22 x		10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 22 - 23 - 24 - 25 - 26 - 27 - 28 - 29 - 30 - 32 mm	
1 x		250 mm	

			kg
963.1290	24 pcs	BRONZE*plus* Socket set	2,00
22 x		10-11-12-13-14-15-16-17-18-19-20-21 22-23-24-25-26-27-28-29-30-32 mm	
1 x		250 mm	
1 x		250 mm	

			kg
963.1291	26 pcs	BRONZE*plus* Socket set	4,10
22 x		10-11-12-13-14-15-16-17-18-19-20 21-22-23-24-25-26-27-28-29-30-32 mm	
1 x		250 mm	
1 x		250 mm	
1 x		320 mm	
1 x		380 mm	

BRONZE*plus* Bit socket set for hexagon screws

- Hexagon socket
- In accordance with DIN 7422
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)
- In wooden box with spark-free hinges

1/2"

			kg
963.1322	9 pcs	BRONZE*plus* Bit socket set for hexagon screws	1,24
9 x		1/2": 5 - 6 - 7 - 8 - 9 - 10 - 12 - 14 - 17 mm	

			kg
963.1323	11 pcs	BRONZE*plus* Bit socket set for hexagon screws	2,99
1 x		1/2"	
1 x		1/2": 250 mm	
9 x		1/2": 5 - 6 - 7 - 8 - 9 - 10 - 12 - 14 - 17 mm	

			kg
963.1324	15 pcs	BRONZE*plus* Bit socket set for hexagon screws	2,79
9 x		1/2": 5 - 6 - 7 - 8 - 9 - 10 - 12 - 14 - 17 mm	
6 x		1/2": 5/90 - 6/90 - 8/90 - 10/140 - 12/140 - 14/140 mm	

3/4" DRIVE NON SPARKING SOCKETS

BRONZE*plus* socket

- 6 point
- In accordance to DIN 3124 / ISO 2725-1
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

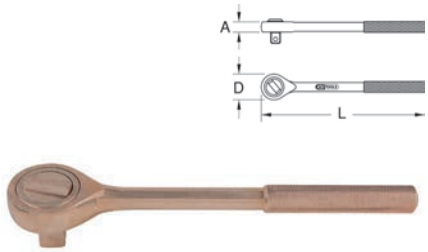
3/4"

	mm	D1 mm	D2 mm	L mm	g
963.3405	18	31,0	36,0	60,0	180
963.3406	19	32,0	36,0	60,0	180
963.3407	21	34,0	36,0	60,0	180
963.3408	22	36,0	36,0	60,0	180
963.3409	24	38,0	36,0	55,0	350
963.3410	25	39,0	36,0	55,0	350
963.3411	26	40,0	36,0	50,0	330
963.3412	27	41,0	36,0	50,0	300
963.3413	28	42,0	38,0	50,0	300
963.3414	29	43,0	38,0	50,0	300
963.3415	30	45,0	38,0	50,0	310
963.3416	32	48,0	40,0	60,0	430
963.3417	33	50,0	40,0	60,0	450
963.3418	34	50,0	40,0	60,0	470
963.3419	35	51,0	44,0	55,0	400
963.3420	36	52,0	44,0	60,0	430
963.3421	38	55,0	46,0	60,0	490
963.3422	41	64,0	50,0	65,0	560
963.3423	42	64,0	50,0	65,0	600
963.3424	46	68,0	50,0	65,0	840
963.3425	50	72,0	55,0	70,0	1080
963.3426	55	80,0	60,0	70,0	900
963.3427	58	80,0	60,0	60,0	950
963.3428	60	82,0	60,0	70,0	1290

		D1 mm	D2 mm	L mm	g
963.3429	7/8"	36,0	36,0	60,0	180
963.3430	15/16"	39,0	36,0	55,0	350
963.3431	1"	39,0	36,0	55,0	350
963.3432	1.1/16"	41,0	36,0	50,0	300
963.3433	1.1/8"	41,0	36,0	50,0	300
963.3434	1.1/4"	48,0	40,0	60,0	430
963.3435	1.5/16"	50,0	40,0	60,0	400
963.3436	1.3/8"	52,0	44,0	55,0	400
963.3437	1.7/16"	55,0	46,0	60,0	430
963.3438	1.1/2"	55,0	46,0	60,0	490
963.3439	1.9/16"	55,0	46,0	60,0	490
963.3440	1.5/8"	64,0	50,0	65,0	560
963.3441	1.11/16"	64,0	50,0	65,0	560
963.3442	1.3/4"	68,0	50,0	65,0	600
963.3443	1.13/16"	68,0	50,0	65,0	840
963.3444	1.7/8"	68,0	50,0	65,0	1000
963.3445	2"	72,0	55,0	70,0	700

BERYLLIUM*plus* reversible ratchet

- In accordance to DIN 3122 / ISO 3315
- Square drive to DIN 3120 / ISO 1174 with ball lock
- Reversible
- Gearing with 45 teeth
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)

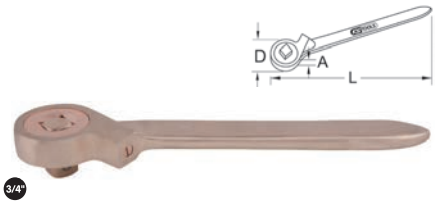


3/4"

	■	A mm	D mm	L mm	kg
962.3490	3/4"	22,0	59,0	300,0	1,90

BERYLLIUM*plus* Ratchet handle with coupler

- Square drive to DIN 3120 / ISO 1174 with ball lock
- The direction of rotation (clockwise and counter clockwise) can be changed by simply rotating the square drive piece
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)



3/4"

	■	A mm	D mm	L mm	kg
962.3491	3/4"	22,0	60,0	500,0	1,80

BRONZE*plus* Coupler

- Square drive to DIN 3120 / ISO 1174 with ball lock
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

3/4"

	■	L mm	g
963.3457	3/4"	51,5	130

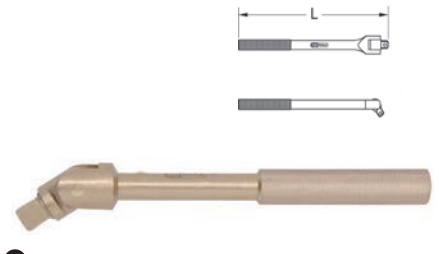
BRONZE*plus* extension

- In accordance to DIN 3123 / ISO 3316
- Square drive to DIN 3120 / ISO 1174 with ball lock
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

	■	L mm	kg	
963.3446	3/4"	100,0	0,35	
963.3447	3/4"	250,0	0,70	
963.3448	3/4"	380,0	1,67	
963.3449	3/4"	430,0	1,50	

BRONZE*plus* flexi drive handle

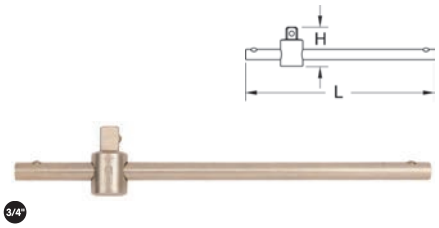
- In accordance to DIN 3122 / ISO 3315
- Square drive to DIN 3120 / ISO 1174 with ball lock
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	■	L mm	kg	
963.3450	3/4"	380,0	1,40	
963.3451	3/4"	460,0	1,30	
963.3452	3/4"	550,0	1,95	

BRONZE*plus* sliding T-handle

- In accordance to DIN 3122 / ISO 3315
- Square drive to DIN 3120 / ISO 1174 with ball lock
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	■	H mm	L mm	kg	
963.3453	3/4"	65,0	260,0	0,60	
963.3454	3/4"	65,0	500,0	1,48	

BRONZE*plus* adaptor and reducing adaptor

- In accordance to DIN 3123 / ISO 3316
- Square drive to DIN 3120 / ISO 1174 with ball lock
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

	□	■	L mm	g	
963.3455	3/4"	1"	61,0	300	
963.3456	3/4"	1/2"	57,0	150	

BRONZE*plus* universal joint

- In accordance to DIN 3123 / ISO 3316
- Square drive to DIN 3120 / ISO 1174 with ball lock
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

	□	■	L mm	g	
963.3458	3/4"	3/4"	85,0	550	
963.3459	3/4"	3/4"	106,0	570	

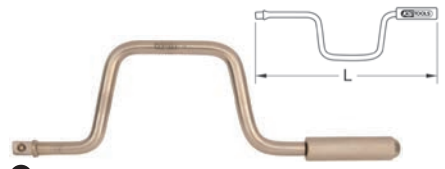
BRONZE*plus* L-Handle

- In accordance to DIN ISO 2936
- Square drive to DIN 3120 / ISO 1174 with ball lock
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

	■	L mm	g	
963.3460	3/4"	300,0	800	

BRONZE*plus* Speed brace

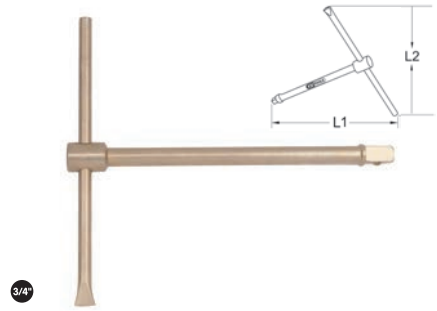
- Square drive to DIN 3120 / ISO 1174 with ball lock
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	■	L mm	kg	
963.3461	3/4"	380,0	1,25	

BRONZE*plus* T-handle

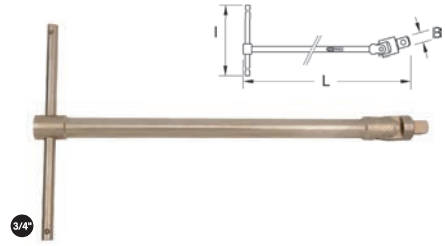
- In accordance to DIN 3122 / ISO 3315
- Square drive to DIN 3120 / ISO 1174 with ball lock
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	■	L1 mm	L2 mm	g	
963.3462	3/4"	260,0	250,0	850	

BRONZE*plus* T-handle

- In accordance to DIN 3122 / ISO 3315
- Square drive in accordance to DIN 3122 / ISO 1174 with ball lock
- With flexible head
- For difficult to access areas
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	■	B mm	I mm	L mm	kg	
963.3463	3/4"	20,0	300,0	560,0	1,20	

BRONZE*plus* Bit socket for hexagon screws

- Hexagon socket
- In accordance with DIN 7422
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

	⬢ mm	D mm	L mm	T mm	g	
963.3465	14	36,0	80,0	18,0	350	
963.3466	17	36,0	80,0	18,0	390	
963.3467	19	36,0	80,0	18,0	440	
963.3468	22	36,0	80,0	18,0	480	
963.3469	24	36,0	80,0	18,0	520	
963.3470	27	36,0	80,0	18,0	550	
963.3471	30	36,0	80,0	18,0	570	
963.3472	32	36,0	80,0	18,0	590	
963.3473	36	36,0	80,0	18,0	620	
963.3474	41	36,0	90,0	18,0	720	
963.3475	46	36,0	90,0	18,0	820	

BRONZE*plus* Socket set

- 6 point
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)
- In durable plastic storage case

3/4"

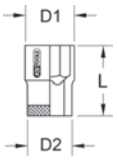
			kg
963.3464	12 pcs	BRONZE*plus* Socket set	12,70

7 x		36 - 38 - 41 - 46 - 50 - 55 - 60 mm
1 x		380 mm
1 x		300 mm
1 x		500 mm
1 x		380 mm

1" DRIVE NON SPARKING SOCKETS

BRONZE*plus* socket

- 6 point
- In accordance to DIN 3124 / ISO 2725-1
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

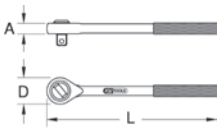


1"

	mm	D1 mm	D2 mm	L mm	kg
963.0088	19	33,0	46,0	55,0	0,28
963.0089	21	35,0	46,0	55,0	0,30
963.0091	22	37,0	46,0	55,0	0,33
963.0092	24	39,0	47,0	55,0	0,34
963.0093	26	42,0	47,0	55,0	0,35
963.0094	27	44,0	48,0	55,0	0,36
963.0095	29	46,0	48,0	60,0	0,37
963.0096	30	48,0	50,0	60,0	0,41
963.1005	32	50,0	50,0	60,0	0,51
963.1006	36	52,0	50,0	65,0	0,55
963.1007	41	63,0	50,0	70,0	0,73
963.1008	42	63,0	50,0	65,0	0,71
963.1009	46	67,0	52,0	65,0	0,71
963.1010	50	72,0	52,0	70,0	0,93
963.1011	55	78,0	60,0	75,0	1,13
963.1012	60	83,0	60,0	75,0	1,35
963.1013	65	90,0	65,0	75,0	1,50
963.1014	70	98,0	75,0	85,0	1,75
963.1015	75	104,0	75,0	85,0	2,30
963.1016	80	110,0	85,0	85,0	2,50
963.1017	85	116,0	85,0	90,0	2,80
963.1018	90	120,0	90,0	85,0	4,40
963.1019	95	130,0	95,0	85,0	4,50
963.1020	100	136,0	95,0	85,0	4,60
963.1021	1.7/16"	52,0	50,0	65,0	0,55
963.1022	1.1/2"	54,0	50,0	65,0	0,68
963.1023	1.5/8"	63,0	50,0	70,0	0,73
963.1024	1.11/16"	65,0	50,0	65,0	0,71
963.1025	1.13/16"	68,0	52,0	65,0	0,71
963.1026	1.7/8"	69,0	52,0	65,0	0,73
963.1027	2"	70,0	52,0	70,0	0,93
963.1028	2.1/16"	73,0	60,0	70,0	0,95
963.1029	2.3/16"	77,0	60,0	75,0	1,13
963.1030	2.3/8"	82,0	65,0	75,0	1,13
963.1031	2.1/4"	80,0	65,0	75,0	1,35
963.1032	2.7/16"	83,0	65,0	75,0	1,40
963.1033	2.9/16"	90,0	70,0	75,0	1,50
963.1034	2.5/8"	91,0	70,0	75,0	1,55
963.1035	2.3/4"	96,0	75,0	85,0	1,75
963.1036	2.13/16"	98,0	75,0	85,0	1,75
963.1037	2.15/16"	103,0	80,0	85,0	2,30
963.1038	3"	104,0	80,0	85,0	2,35
963.1039	3.1/8"	110,0	80,0	85,0	2,50
963.1040	3.3/8"	116,0	85,0	90,0	2,80
963.1041	3.1/2"	120,0	90,0	90,0	4,40
963.1042	3.3/4"	130,0	95,0	90,0	4,50
963.1043	3.7/8"	135,0	95,0	90,0	4,60
963.1044	4.1/4"	113,0	85,0	90,0	5,00

BERYLLIUM*plus* reversible ratchet

- In accordance to DIN 3122 / ISO 3315
- Square drive to DIN 3120 / ISO 1174 with ball lock
- Reversible
- Gearing with 45 teeth
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)



1"

		A mm	D mm	L mm	g
962.1090	1"	30,0	72,0	550,0	340

BERYLLIUM*plus* Ratchet handle with coupler

- Square drive to DIN 3120 / ISO 1174 with ball lock
- The direction of rotation (clockwise and counter clockwise) can be changed by simply rotating the square drive piece
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)

1"

		A mm	D mm	L mm	kg
962.1091	1"	23,0	72,0	550,0	3,50

BRONZE*plus* Coupler

- Square drive to DIN 3120 / ISO 1174 with ball lock
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

1"

		L mm	g
963.1051	1"	68,0	300

BRONZE*plus* extension

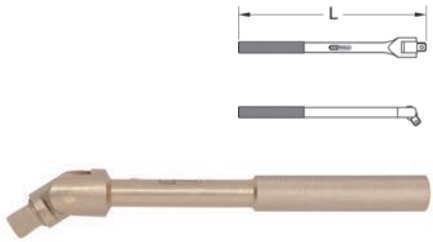
- In accordance to DIN 3123 / ISO 3316
- Square drive to DIN 3120 / ISO 1174 with ball lock
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

1"

		L mm	kg
963.1045	1"	100,0	0,80
963.1046	1"	250,0	1,40
963.1047	1"	400,0	2,09

BRONZE*plus* flexi drive handle

- In accordance to DIN 3122 / ISO 3315
- Square drive to DIN 3120 / ISO 1174 with ball lock
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

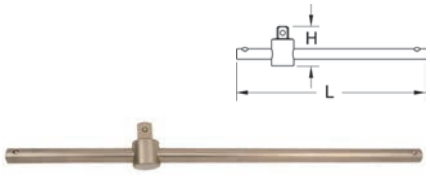


1"

		L mm	kg
963.1048	1"	380,0	1,20

BRONZE*plus* sliding T-handle

- In accordance to DIN 3122 / ISO 3315
- Square drive to DIN 3120 / ISO 1174 with ball lock
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	■	H mm	L mm	kg
963.1049	1"	76,0	700,0	2,80

BRONZE*plus* reducing adaptor

- In accordance to DIN 3123 / ISO 3316
- Square drive to DIN 3120 / ISO 1174 with ball lock
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

	□	■	L mm	g
963.1050	1"	3/4"	75,0	540

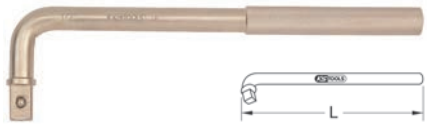
BRONZE*plus* universal joint

- In accordance to DIN 3123 / ISO 3316
- Square drive to DIN 3120 / ISO 1174 with ball lock
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

	□	■	L mm	kg
963.1052	1"	1"	141,0	1,45

BRONZE*plus* L-Handle

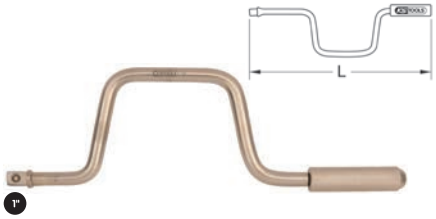
- In accordance to DIN ISO 2936
- Square drive to DIN 3120 / ISO 1174 with ball lock
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	■	L mm	kg
963.1053	1"	300,0	1,00

BRONZE*plus* Speed brace

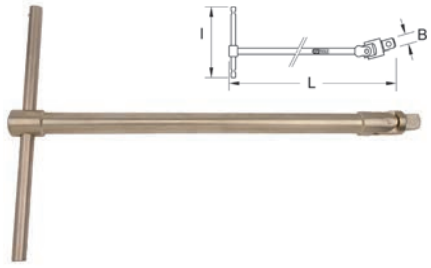
- Square drive to DIN 3120 / ISO 1174 with ball lock
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	■	L mm	kg
963.1054	1"	380,0	1,40

BRONZE*plus* T-handle

- In accordance to DIN 3122 / ISO 3315
- Square drive in accordance to DIN 3122 / ISO 1174 with ball lock
- With flexible head
- For difficult to access areas
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	■	B mm	I mm	L mm	kg
963.1055	1"	25,0	400,0	660,0	1,70

BRONZE*plus* Bit socket for hexagon screws

- Hexagon socket
- In accordance with DIN 7422
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

	mm	D mm	L mm	T mm	kg
963.1056	17	47,0	90,0	23,0	0,58
963.1057	19	47,0	90,0	23,0	0,67
963.1058	22	47,0	90,0	23,0	0,71
963.1059	24	47,0	90,0	23,0	0,77
963.1060	27	47,0	90,0	23,0	0,86
963.1061	30	47,0	90,0	23,0	0,91
963.1062	32	47,0	90,0	23,0	0,95
963.1063	36	47,0	90,0	23,0	0,99
963.1064	41	47,0	100,0	23,0	1,20
963.1065	46	47,0	100,0	23,0	1,40

BRONZE*plus* Socket set

- 6 point
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)
- In durable plastic storage case

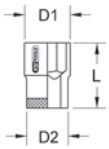
			kg
963.1066	23 pcs	BRONZE*plus* Socket set	33,10
10 x		36 - 41 - 46 - 50 - 55 - 60 - 65 - 70 - 75 - 80 mm	
10 x		1.1/2" - 1.5/8" - 1.7/8" - 2" - 2.1/16" - 2.1/4" - 2.3/8" - 2.9/16" - 2.3/4" - 3"	
2 x		250 - 400 mm	
1 x		550 mm	

			kg
963.1067	13 pcs	BRONZE*plus* Socket set	21,10
10 x		36 - 41 - 46 - 50 - 55 - 60 - 65 - 70 - 75 - 80 mm	
2 x		250 - 400 mm	
1 x		550 mm	

1 1/2" DRIVE NON SPARKING SOCKETS

BRONZE*plus* socket

- 6 point
- In accordance to DIN 3124 / ISO 2725-1
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	mm	D1 mm	D2 mm	L mm	kg
963.0001	55	81,0	74,0	90,0	2,30
963.0002	60	87,0	74,0	90,0	2,50
963.0003	65	94,0	74,0	95,0	2,85
963.0004	70	99,0	80,0	98,0	3,10
963.0005	75	105,0	80,0	100,0	3,40
963.0006	80	112,0	80,0	105,0	3,80
963.0007	85	118,0	80,0	110,0	4,20
963.0008	90	124,0	90,0	115,0	4,49

NON SPARKING SCREWDRIVERS

BERYLLIUM*plus* screwdriver for slotted screws

- Slotted
- In accordance to DIN ISO 2380-2 / 2380-1 Form A
- With hanging hole
- Two component handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)

	D mm	L1 mm	L2 mm	L3 mm	g
962.0911	3,0	165,0	75,0	90,0	30
962.0307	4,0	152,0	50,0	102,0	35
962.0308	4,0	177,0	75,0	102,0	40
962.0309	4,0	202,0	100,0	102,0	45
962.0912	4,5	200,0	100,0	100,0	30
962.0913	4,5	250,0	150,0	100,0	60
962.0311	5,0	177,0	75,0	102,0	65
962.0312	5,0	202,0	100,0	109,0	70
962.0914	6,0	200,0	100,0	100,0	80
962.0314	6,0	134,0	125,0	109,0	95
962.0915	6,0	250,0	150,0	100,0	90
962.0916	8,0	260,0	150,0	110,0	130
962.0315	8,0	321,0	200,0	121,0	155
962.0316	9,0	371,0	250,0	121,0	175
962.0917	10,0	320,0	200,0	120,0	190
962.0317	10,0	371,0	250,0	121,0	195
962.0918	10,0	420,0	300,0	120,0	230
962.0319	11,0	421,0	300,0	121,0	175
962.0321	11,0	421,0	350,0	121,0	300
962.0322	12,0	521,0	400,0	121,0	430

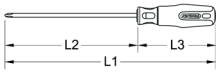
BERYLLIUM*plus* screwdriver for slotted screws, parallel blade

- With parallel blade
- Slotted
- With hanging hole
- Two component handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)

	D mm	L1 mm	L2 mm	L3 mm	g
962.0920	3,0	165,0	75,0	90,0	20
962.0921	4,0	240,0	150,0	100,0	20
962.0922	5,0	250,0	150,0	100,0	30
962.0923	6,0	300,0	200,0	100,0	110
962.0924	6,5	400,0	300,0	100,0	150

BERYLLIUM*plus* screwdriver for Phillips screws PH

- PH
- In accordance to DIN 5262 / ISO 8764-1
- With hanging hole
- Two component handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)



		L1 mm	L2 mm	L3 mm	g
962.0900	PH 0	150,0	60,0	90,0	30
962.0011	PH 1	152,0	50,0	102,0	45
962.0901	PH 1	170,0	80,0	90,0	60
962.0012	PH 1	202,0	100,0	102,0	70
962.0902	PH 2	200,0	100,0	100,0	90
962.0013	PH 2	234,0	125,0	109,0	95
962.0014	PH 2	259,0	150,0	109,0	105
962.0903	PH 3	250,0	150,0	100,0	170
962.0015	PH 3	321,0	200,0	121,0	185
962.0016	PH 3	371,0	250,0	121,0	200
962.0904	PH 4	310,0	200,0	110,0	270
962.0017	PH 4	471,0	350,0	121,0	280
962.0018	PH 4	521,0	400,0	121,0	300
962.0019	PH 4	571,0	450,0	121,0	320

BERYLLIUM*plus* screwdriver set

- With hanging hole
- Two component handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)

			g
962.0805	4 pcs	BERYLLIUM*plus* screwdriver set	320
4 x	3 (75 mm) - 4,5 (100 mm) - 6 - 8 (150 mm)		

BERYLLIUM*plus* screwdriver set

- With hanging hole
- Two component handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)

			g
962.0808	4 pcs	BERYLLIUM*plus* screwdriver set	400
4 x	PH1 - PH2 - PH3 - PH4		

BERYLLIUM*plus* screwdriver set

- With hanging hole
- Two component handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)

			g
962.0806	6 pcs	BERYLLIUM*plus* screwdriver set	500
4 x	4,5 - 6 (100 mm) - 6 - 8 (150 mm)		
2 x	PH1 - PH2		

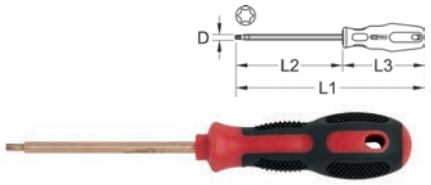
BERYLLIUM*plus* screwdriver set

- With hanging hole
- Two component handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)

			kg
962.0807	10 pcs	BERYLLIUM*plus* screwdriver set	1,20
6 x	4,5 - 6 (100 mm) - 4,5 - 6 - 8 (150 mm) 10 (200 mm)		
4 x	PH1 - PH2 - PH3 - PH4		

BERYLLIUM*plus* screwdriver for Torx screws

- Torx
- With hanging hole
- Two component handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)



		L1 mm	L2 mm	L3 mm	g	
962.0930	T5	160,0	70,0	90,0	30	
962.0931	T6	160,0	70,0	90,0	70	
962.0932	T7	160,0	70,0	90,0	70	
962.0933	T8	160,0	70,0	90,0	70	
962.0934	T9	160,0	70,0	90,0	70	
962.0935	T10	170,0	80,0	90,0	80	
962.0936	T15	170,0	80,0	90,0	80	
962.0937	T20	190,0	90,0	100,0	80	
962.0938	T25	190,0	90,0	100,0	100	
962.0939	T27	210,0	110,0	100,0	100	
962.0940	T30	210,0	110,0	100,0	110	
962.0941	T40	220,0	120,0	100,0	120	
962.0942	T45	230,0	120,0	110,0	140	
962.0943	T50	230,0	120,0	110,0	150	

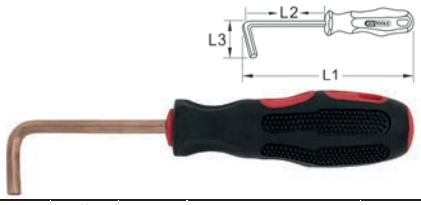
BRONZE*plus* screwdriver for hexagon screws

- 6 point
- With hanging hole
- Two component handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

	mm	L1 mm	L2 mm	L3 mm	g	
963.1068	3,0	190,0	100,0	90,0	40	
963.1069	4,0	190,0	100,0	90,0	50	
963.1070	5,0	200,0	100,0	100,0	60	
963.1071	6,0	225,0	125,0	100,0	90	
963.1072	8,0	260,0	150,0	110,0	140	
963.1073	10,0	260,0	150,0	110,0	210	
963.1074	12,0	280,0	150,0	130,0	280	

BRONZE*plus* screwdriver for hexagon screws, angled

- 6 point
- With hanging hole
- Two component handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	mm	L1 mm	L2 mm	L3 mm	g	
963.1505	3,0	153,0	75,0	20,0	40	
963.1506	4,0	153,0	75,0	25,0	40	
963.1507	5,0	180,0	80,0	28,0	50	
963.1508	6,0	180,0	80,0	32,0	100	
963.1509	8,0	240,0	120,0	36,0	140	
963.1510	10,0	240,0	120,0	40,0	220	
963.1511	12,0	240,0	120,0	45,0	290	

BERYLLIUM*plus* screwdriver for hexagon screws with ball end

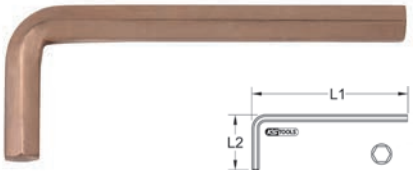
- 6 point
- With hanging hole
- Two component handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)

	mm	L1 mm	L2 mm	L3 mm	g	
962.0950	3,0	190,0	100,0	90,0	30	
962.0951	4,0	190,0	100,0	90,0	50	
962.0952	5,0	200,0	100,0	100,0	60	
962.0953	6,0	225,0	125,0	100,0	90	
962.0954	8,0	260,0	150,0	110,0	140	
962.0955	10,0	260,0	150,0	110,0	210	
962.0956	12,0	280,0	150,0	130,0	280	

NON SPARKING OFFSET SCREWDRIVERS

BRONZE*plus* key wrench for hexagon socket screws, short

- 6 point
- Short execution
- In accordance to DIN ISO 2936
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	mm		L1 mm	L2 mm	kg	
962.04015	1,5		55,0	13,0	0,01	
962.0402	2,0		55,0	13,0	0,01	
962.04025	2,5		55,0	13,0	0,01	
963.1519	3,0		60,0	25,0	0,01	
963.1520	4,0		70,0	30,0	0,01	
963.1521	5,0		80,0	32,0	0,02	
963.1522	6,0		90,0	37,0	0,04	
963.1523	7,0		95,0	43,0	0,04	
963.1524	8,0		100,0	44,0	0,07	
963.1525	9,0		105,0	44,0	0,07	
963.1526	10,0		115,0	45,0	0,10	
963.1527	11,0		119,0	48,0	0,13	
963.1528	12,0		125,0	52,0	0,13	
963.1529	13,0		132,0	54,0	0,20	
963.1530	14,0		140,0	58,0	0,25	
963.1531	17,0		160,0	65,0	0,32	
963.1532	18,0		170,0	69,0	0,50	
963.1533	19,0		180,0	72,0	0,57	
963.1534	22,0		200,0	77,0	0,95	
963.1535	24,0		224,0	82,0	1,25	
963.1536	27,0		250,0	93,0	1,80	
963.1537	30,0		280,0	105,0	2,50	
963.1538	32,0		315,0	116,0	3,10	
963.1539	36,0		355,0	128,0	4,50	
963.1540	41,0		400,0	140,0	5,30	
962.0420		3/64"	55,0	13,0	0,01	
962.0421		1/16"	55,0	13,0	0,01	
962.0422		5/64"	55,0	13,0	0,01	
962.0423		3/32"	55,0	13,0	0,01	
962.0424		1/8"	60,0	24,0	0,01	
962.0425		5/32"	70,0	30,0	0,02	

	mm		L1 mm	L2 mm	kg	
963.1541		3/16"	80,0	31,0	0,02	
963.1542		7/32"	80,0	37,0	0,02	
963.1543		1/4"	90,0	37,0	0,04	
963.1544		5/16"	100,0	44,0	0,07	
963.1545		3/8"	120,0	45,0	0,10	
963.1546		7/16"	119,0	48,0	0,13	
963.1547		1/2"	125,0	55,0	0,18	
963.1548		9/16"	140,0	58,0	0,25	
963.1549		5/8"	140,0	63,0	0,30	
963.1550		11/16"	160,0	65,0	0,32	
963.1551		3/4"	180,0	73,0	0,57	
963.1552		7/8"	200,0	77,0	0,95	
963.1553		1"	224,0	85,0	1,26	
963.1554		1.1/16"	216,0	93,0	3,08	
963.1555		1.1/8"	230,0	95,0	3,30	
963.1556		1.1/4"	230,0	116,0	3,30	
963.1557		1.5/16"	235,0	116,0	3,52	
963.1558		1.3/8"	235,0	128,0	3,52	
963.1559		1.7/16"	241,0	128,0	3,74	
963.1560		1.1/2"	241,0	128,0	3,74	
963.1561		1.5/8"	241,0	140,0	3,74	

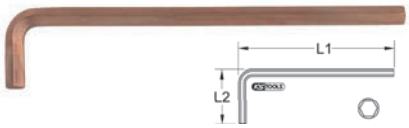
BRONZE*plus* Hexagon key wrench set in a folding holder, short

- 6 point
- Short execution
- In accordance to DIN ISO 2936
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

			g	
963.1512	8 pcs	2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm	280	
963.1513	9 pcs	1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm	280	
963.1514	10 pcs	1/16" - 5/64" - 3/32" - 1/8" - 5/32" - 3/16" - 7/32" - 1/4" - 5/16" - 3/8"	300	

BRONZE*plus* key wrench for hexagon socket screws, extra long

- 6 point
- Extra long execution
- In accordance to DIN ISO 2936
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	mm	L1 mm	L2 mm	g	
963.1562	3,0	126,0	25,0	100	
963.1563	4,0	142,0	30,0	30	
963.1564	5,0	160,0	32,0	40	
963.1565	6,0	180,0	37,0	30	
963.1566	8,0	200,0	44,0	70	
963.1567	10,0	205,0	45,0	120	
963.1568	12,0	250,0	52,0	190	
963.1569	14,0	280,0	58,0	300	
963.1570	17,0	320,0	65,0	380	
963.1571	19,0	360,0	72,0	490	

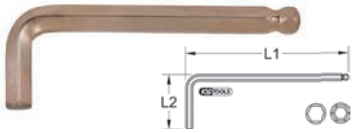
BRONZE*plus* Hexagon key wrench set in a folding holder, extra long

- 6 point
- Long execution
- In accordance to DIN ISO 2936
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

963.1515	8 pcs	2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm	400
963.1516	9 pcs	1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm	480

BERYLLIUM*plus* key wrench for hexagon socket screws with ball end, short

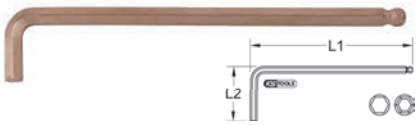
- 6 point
- Short execution
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)



	mm	L1 mm	L2 mm	
962.0440	1,5	45,0	13,0	10
962.0441	2,0	50,0	16,0	10
962.0442	2,5	55,0	18,0	10
962.0443	3,0	63,0	20,0	10
962.0444	4,0	70,0	25,0	10
962.0445	5,0	80,0	28,0	20
962.0446	6,0	90,0	32,0	30
962.0447	7,0	95,0	34,0	40
962.0448	8,0	100,0	36,0	60
962.0449	10,0	115,0	40,0	110
962.0450	12,0	130,0	45,0	210
962.0451	14,0	140,0	48,0	260

BERYLLIUM*plus* key wrench for hexagon socket screws with ball end, extra long

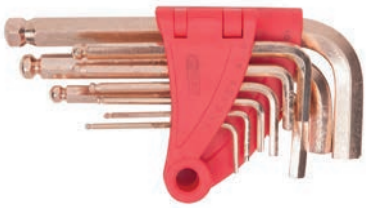
- 6 point
- Extra long execution
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)



	mm	L1 mm	L2 mm	
962.0460	3,0	126,0	20,0	10
962.0461	4,0	140,0	25,0	20
962.0462	5,0	160,0	28,0	30
962.0463	6,0	180,0	32,0	50
962.0464	7,0	190,0	34,0	80
962.0465	8,0	200,0	36,0	100
962.0466	10,0	224,0	40,0	180
962.0467	12,0	250,0	45,0	290
962.0468	14,0	290,0	48,0	370

BRONZE*plus* Hexagon key wrench set in a folding holder, with ball end

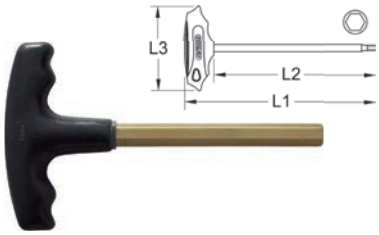
- 6 point
- In accordance to DIN ISO 2936
- With ball head on the long end
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



963.1517	8 pcs	2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm	250
963.1518	9 pcs	1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm	260

BRONZE*plus* T-handle hexagon key wrench

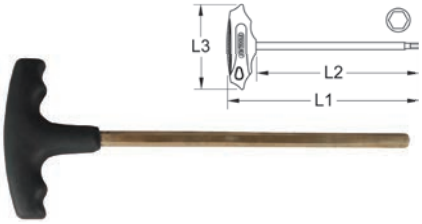
- 6 point
- One component handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	mm	L1 mm	L2 mm	L3 mm	
963.1572	3,0	143,0	100,0	75,0	20
963.1573	4,0	143,0	100,0	75,0	30
963.1574	5,0	155,0	100,0	91,0	40
963.1575	6,0	155,0	100,0	91,0	40
963.1576	8,0	155,0	100,0	91,0	60
963.1577	10,0	155,0	100,0	91,0	80
963.1578	12,0	155,0	100,0	91,0	160
963.1579	14,0	155,0	100,0	91,0	200

BRONZE*plus* T-handle hexagon key wrench, long

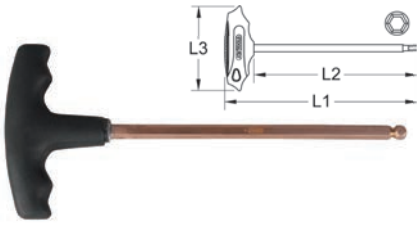
- 6 point
- Extra long execution
- One component handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	mm	L1 mm	L2 mm	L3 mm	
963.1580	3,0	195,0	150,0	75,0	30
963.1581	4,0	195,0	150,0	75,0	40
963.1582	5,0	205,0	150,0	91,0	60
963.1583	6,0	205,0	150,0	91,0	100
963.1584	8,0	205,0	150,0	91,0	130
963.1585	10,0	205,0	150,0	91,0	140
963.1586	12,0	205,0	150,0	91,0	160
963.1587	14,0	205,0	150,0	91,0	190

BERYLLIUM*plus* T-handle hexagon key wrench with ball end

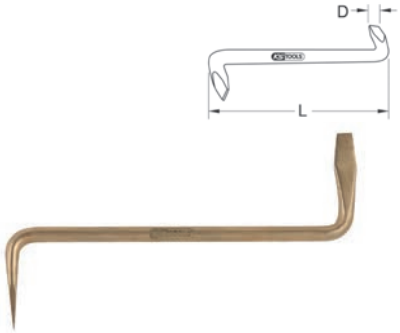
- 6 point
- One component handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)



	mm	L1 mm	L2 mm	L3 mm	
962.0960	3,0	145,0	100,0	75,0	40
962.0961	4,0	145,0	100,0	75,0	40
962.0962	5,0	205,0	150,0	91,0	650
962.0963	6,0	205,0	150,0	91,0	90
962.0964	8,0	205,0	150,0	91,0	120
962.0965	10,0	255,0	200,0	91,0	230
962.0966	12,0	255,0	200,0	91,0	300
962.0967	14,0	255,0	200,0	91,0	380

BRONZE*plus* Key wrench

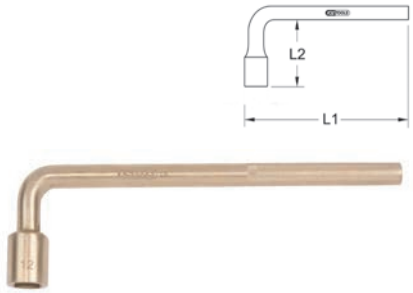
- Slotted
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	D mm	L mm	
963.1588	4,0	125,0	50
963.1589	6,0	130,0	100
963.1590	10,0	140,0	90
963.1591	13,0	190,0	240

BRONZE*plus* offset screwdriver for square head screws

- 4 point
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

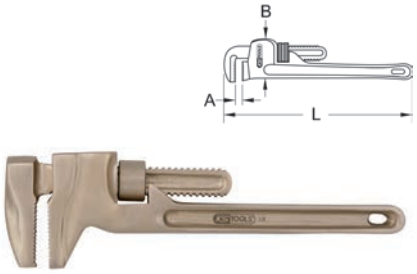


	■ mm	L1 mm	L2 mm	kg
963.1592	10	200,0	37,0	0,20
963.1593	11	200,0	37,0	0,20
963.1594	12	200,0	42,0	0,20
963.1595	13	200,0	45,0	0,20
963.1596	14	220,0	45,0	0,40
963.1597	15	220,0	48,0	0,40
963.1598	16	220,0	48,0	0,40
963.1599	17	250,0	51,0	0,60
963.1600	18	250,0	53,0	0,60
963.1601	19	250,0	55,0	0,60
963.1602	20	300,0	57,0	1,00
963.1603	21	300,0	57,0	1,00
963.1604	22	300,0	59,0	1,00
963.1605	24	360,0	63,0	1,60
963.1606	25	360,0	63,0	1,60
963.1607	27	360,0	69,0	1,60
963.1608	28	440,0	69,0	3,20
963.1609	30	440,0	75,0	3,20
963.1610	32	440,0	81,0	3,20

NON SPARKING PLIERS

BRONZE*plus* one handed pipe wrench

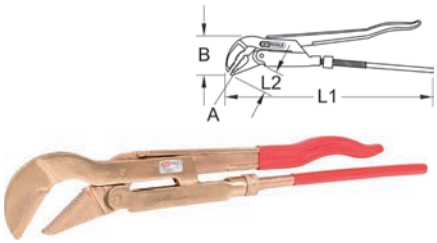
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	A mm	B mm	L mm	kg
963.1705	38,0	50,0	240,0	0,42
963.1706	45,0	50,0	240,0	0,47
963.1707	48,0	53,0	290,0	0,78
963.1708	58,0	64,0	350,0	1,00
963.1709	65,0	64,0	350,0	1,20
963.1710	70,0	75,0	425,0	1,60
963.1711	80,0	80,0	500,0	2,20
963.1712	105,0	90,0	575,0	3,70

BERYLLIUM*plus* swedish pipe wrench

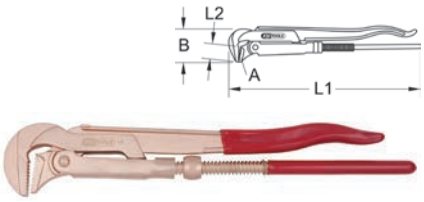
- In accordance to DIN 5234
- 45° angled
- S-shaped jaw
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)



	A	B mm	L1 mm	L2 mm	kg
962.4005	1"	60,0	200,0	38,0	0,82
962.4006	1.1/2"	70,0	300,0	50,0	1,57
962.4007	2"	72,0	350,0	65,0	3,20
962.4008	3"	100,0	600,0	75,0	4,10
962.4009	4"	122,0	900,0	100,0	6,20

BERYLLIUM*plus* adjustable pipe wrench

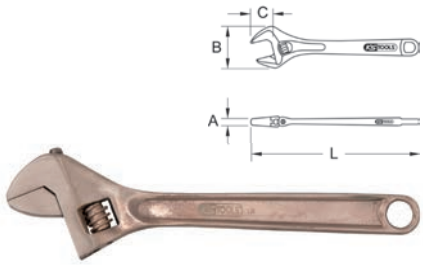
- In accordance to DIN 5234
- 90° angled
- S-shaped jaw
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)



	A	B mm	L1 mm	L2 mm	kg
962.4015	1.1/2"	80,0	435,0	50,0	1,57
962.4016	2"	95,0	540,0	65,0	3,20

BERYLLIUM*plus* adjustable spanner

- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)



	⬢ mm	A mm	B mm	C mm	L mm	kg
962.1108	18	9,0	45,0	18,0	150,0	0,10
962.1109	26	10,0	55,0	20,0	200,0	0,20
962.1110	30	11,0	65,0	30,0	250,0	0,40
962.1111	36	12,0	83,0	34,0	300,0	0,70
962.1112	46	15,0	105,0	47,0	380,0	1,40
962.1113	53	17,0	123,0	51,0	450,0	2,70
962.1114	67	19,0	145,0	62,0	600,0	5,10

BRONZE*plus* chain pipe wrench

- Function is similar to a ratchet
- Light execution
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

	Ø mm	L mm	kg
963.1713	50	600,0	1,70
963.1714	100	600,0	2,50
963.1715	150	600,0	3,00
963.1716	450	1600,0	8,00

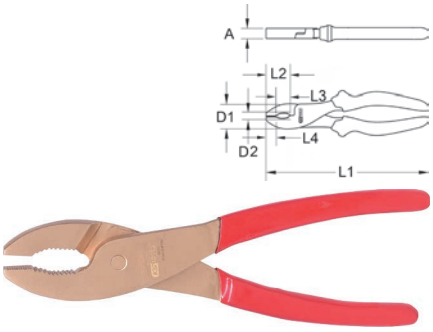
BRONZE*plus* chain pipe wrench

- Function is similar to a ratchet
- American version
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

	Ø mm	L mm	kg
963.1717	38	510,0	2,65
963.1718	65	685,0	4,50
963.1719	100	915,0	11,50
963.1720	300	1830,0	30,30

BERYLLIUM*plus* pipe wrench

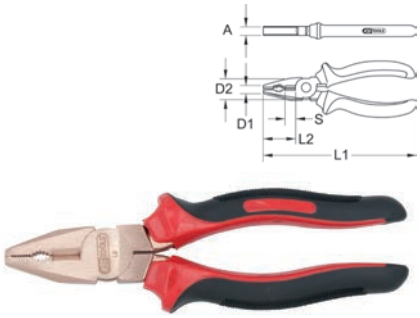
- With PVC dipped handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)



	A mm	D1 mm	D2 mm	L1 mm	L2 mm	L3 mm	L4 mm	g
962.0607	12,0	30,0	15,0	210,0	40,0	25,0	15,0	370

BERYLLIUM*plus* combination pliers

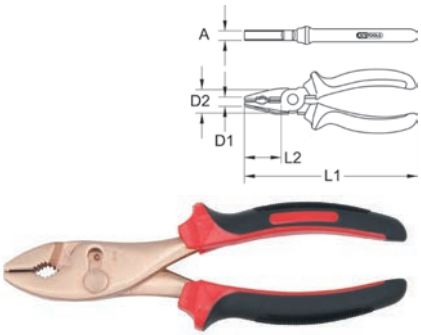
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)
- Two component handle



	A mm	D1 mm	D2 mm	L1 mm	L2 mm	S mm	g
962.0620	10,0	7,0	24,0	160,0	33,0	12,0	350
962.0621	14,0	9,0	29,0	200,0	38,0	16,0	420

BERYLLIUM*plus* combination pliers, adjustable

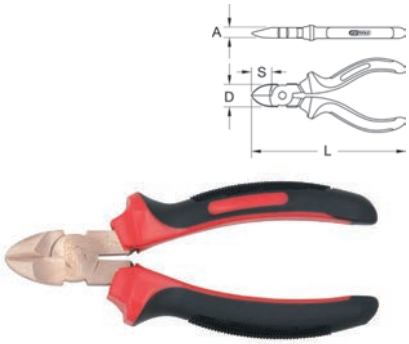
- Two component handle
- Adjustable
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)



	A mm	D1 mm	D2 mm	L1 mm	L2 mm	g
962.0623	14,0	9,0	29,0	200,0	38,0	340

BERYLLIUM*plus* side cutters

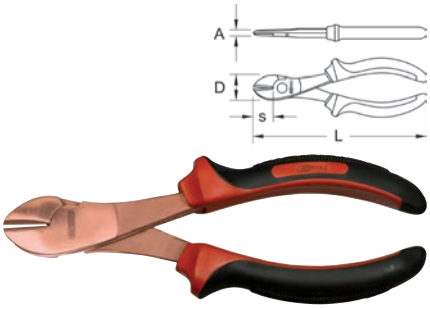
- In accordance to DIN ISO 5749
- Two component handle
- For different wire types
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)



	A mm	D mm	L mm	S mm	g
962.0616	10,0	23,0	165,0	20,0	200
962.0333	13,0	29,0	200,0	29,0	410

BERYLLIUM*plus* high leverage side cutter

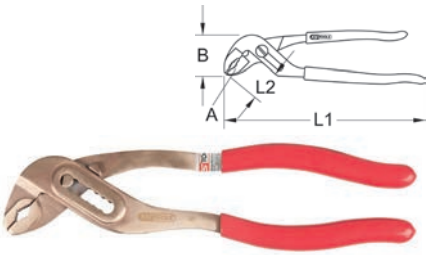
- In accordance to DIN ISO 5749
- Two component handle
- For different wire types
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)



	A mm	D mm	L mm	S mm	g
962.0617	14,0	30,0	190,0	24,0	290

BERYLLIUM*plus* waterpump pliers

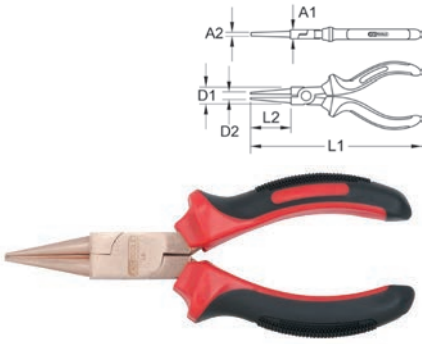
- In accordance to DIN ISO 8976
- Insulated handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)



	A mm	B mm	L1 mm	L2 mm	g
962.0605	30,0	53,0	250,0	33,0	350

BERYLLIUM*plus* round nosed pliers

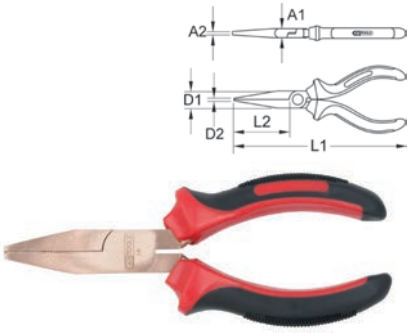
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)
- Substaintial through joint
- Two component handle



	A1 mm	A2 mm	D1 mm	D2 mm	L1 mm	L2 mm	g
962.0625	3,0	10,0	20,0	3,0	160,0	36,0	90
962.0626	5,0	12,0	25,0	4,0	200,0	54,0	160

BERYLLIUM*plus* flat pliers

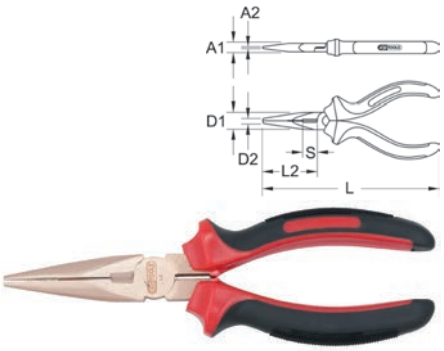
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)
- Two component handle



	A1 mm	A2 mm	D1 mm	D2 mm	L1 mm	L2 mm	g
962.0630	9,0	2,5	18,0	3,2	160,0	48,0	50
962.0631	11,0	4,0	21,0	5,0	200,0	85,0	150

BERYLLIUM*plus* telephone pliers

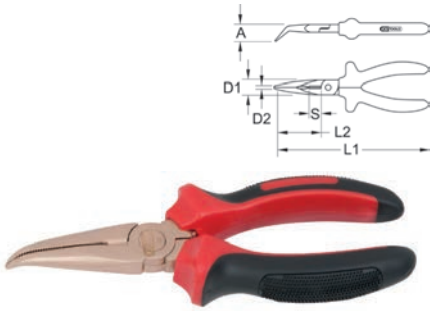
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)
- Two component handle



	A1 mm	A2 mm	D1 mm	D2 mm	L1 mm	L2 mm	S mm	g
962.0610	11,0	3,0	22,0	4,0	180,0	60,0	10,0	300

BERYLLIUM*plus* telephone pliers, offset

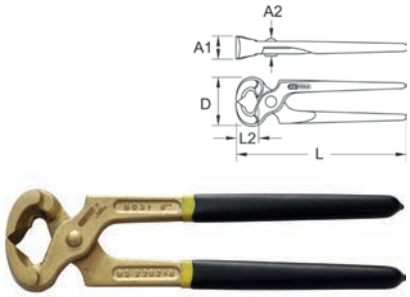
- 45° angled tips
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)
- Insulated handle



	A mm	D1 mm	D2 mm	L1 mm	L2 mm	S mm	g
962.0612	9,0	20,0	4,0	180,0	50,0	9,0	290

BERYLLIUM*plus* pincers

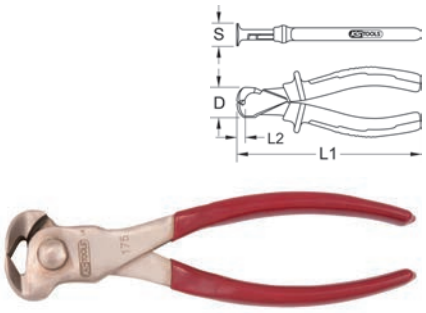
- With PVC dipped handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)



	A1 mm	A2 mm	D mm	L1 mm	L2 mm	g
962.0640	16,0	14,0	43,0	175,0	19,0	430
962.0641	20,0	18,0	53,0	200,0	23,0	520

BERYLLIUM*plus* side cutter

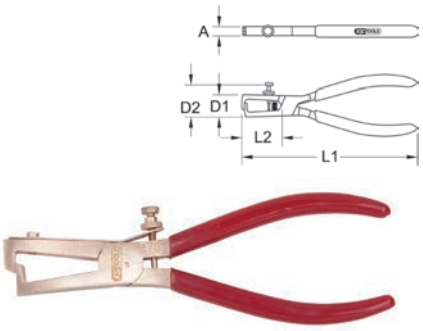
- Strong execution
- With PVC dipped handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)



	D mm	L1 mm	L2 mm	S mm	g
962.0615	30,0	175,0	9,0	28	260

BERYLLIUM*plus* wire stripper

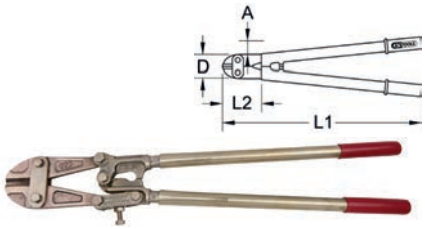
- With spring and locking screw
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)



	A mm	D1 mm	D2 mm	L1 mm	L2 mm	g
962.0635	10,0	25,0	28,0	170,0	40,0	260

BERYLLIUM*plus* Bolt cutters

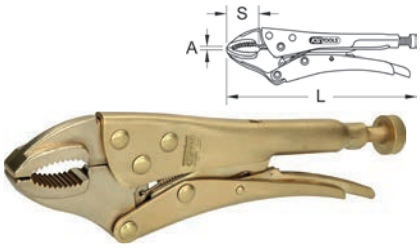
- With PVC dipped handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)



	A mm	D mm	L1 mm	L2 mm	kg
962.0619	62,0	78,0	620,0	140,0	3,40

BRONZE*plus* Non-sparking locking pliers

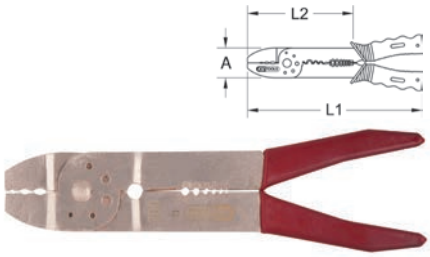
- Forged gripping jaws
- Serrated execution
- Size adjustment using the adjustment wheel
- With loosening lever
- With easy locking action
- For round and flat material
- To hold when welding
- No flaring under the strongest loads
- Loosening under continuous pressure of a national
- Very breakage resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	A mm	L mm	S mm	g
963.0331	16,0	254,0	42,0	700

BERYLLIUM*plus* Crimping pliers

- With PVC dipped handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)



	L1 mm	L2 mm	A mm	g
962.0636	200,0	120,0	40,0	120

BERYLLIUM*plus* pliers set

- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)

			kg
962.0650	4 pcs	BERYLLIUM*plus* pliers set	1,50

1 x		200 mm
1 x		165 mm
1 x		180 mm
1 x		250 mm

NON SPARKING TWEEZERS

BRONZE*plus* tweezers

- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

	L mm	g
963.5604	100,0	100

BRONZE*plus* neat tweezers

- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

	L mm	g
963.5605	150,0	30

BRONZE*plus* flat nose tweezers

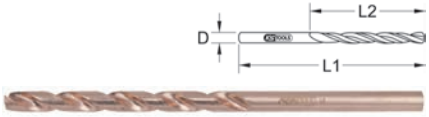
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

	L mm	g	
963.5606	100,0	30	

NON SPARKING DRILLS

BERYLLIUM*plus* twist drill

- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)



	D mm	L1 mm	L2 mm	Content	g	
962.9606	6,0	100,0	60,0	1	20	
962.9607	7,0	120,0	70,0	1	30	
962.9608	8,0	140,0	80,0	1	50	
962.9609	9,0	160,0	100,0	1	70	
962.9610	10,0	180,0	120,0	1	100	
962.9611	11,0	200,0	130,0	1	120	
962.9612	12,0	220,0	150,0	1	170	
962.9613	13,0	240,0	160,0	1	220	
962.9614	14,0	260,0	180,0	1	280	
962.9615	15,0	280,0	200,0	1	360	
962.9616	16,0	300,0	220,0	1	440	
962.9617	17,0	300,0	220,0	1	500	
962.9618	18,0	320,0	230,0	1	600	
962.9619	19,0	320,0	230,0	1	700	
962.9620	20,0	330,0	240,0	1	800	

BERYLLIUM*plus* twist drill set

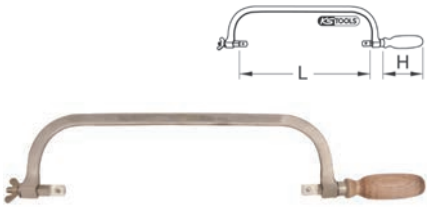
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)
- In durable plastic storage case

			kg	
962.9630	15 pcs	6-7-8-9-10-11-12-13-14-15-16-17-18-19-20mm	4,00	

NON SPARKING SAWS

BRONZE*plus* hack saw frame

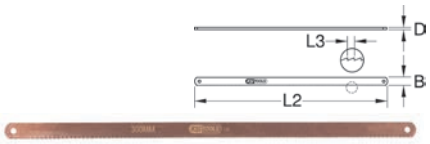
- For saw blade length 300 mm
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L mm	H mm	kg	
963.5108	300	200	0,90	

BERYLLIUM*plus* hack saw blade for hack saw frame

- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)



	L2 mm	L3 mm	B mm	D mm	g	
962.9034	300,0	1,0-1,3	12,0	0,6	30	

BERYLLIUM*plus* hand saw

- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)

	L mm	H mm	g	
962.9035	370,0	90,0	500	

BERYLLIUM*plus* hand saw, heavy duty

- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)

	L mm	H mm	g	
962.9036	700,0	120,0	770	

NON SPARKING WIRE BRUSHES

BRONZE*plus* tin bronze wire brush, curled

- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

	L mm	B mm	g	
963.9580	125,0	55,0	300	

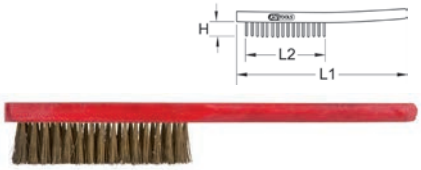
BRONZE*plus* tin bronze wire brush, curled

- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

	rows	H mm	L1 mm	L2 mm	g	
963.9581	3	30,0	350,0	120,0	190	
963.9582	4	30,0	350,0	120,0	210	
963.9583	5	30,0	350,0	120,0	190	

BRONZE*plus* tin bronze wire handbrush, curled

- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	rows	H mm	L1 mm	L2 mm	g	
963.9584	3	30,0	290,0	120,0	110	
963.9585	4	30,0	290,0	120,0	130	
963.9586	5	30,0	290,0	120,0	150	

BRONZE*plus* tin bronze wire hand broom, curled

- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

	L1 mm	L2 mm	g	
963.9587	310,0	150,0	320	

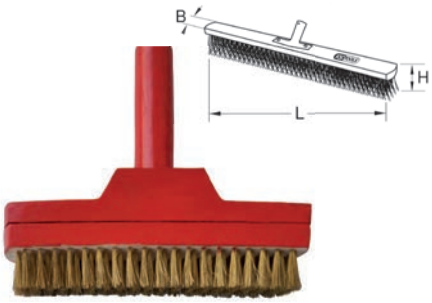
BRONZE*plus* Hand brush

- Without handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

	L mm	B mm	H mm	g
963.9590	245,0	60,0	50,0	480

BRONZE*plus* round wire broom

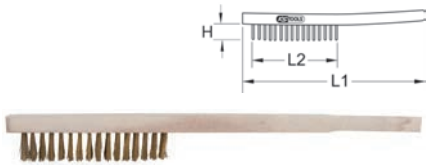
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L mm	B mm	H mm	kg
963.9591	240,0	60,0	65,0	0,40

BRONZE*plus* Brush, spark-plug cleaning, round wire

- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	H mm	L1 mm	L2 mm	g
963.9593	15,0	225,0	80,0	40

BRONZE*plus* tube brush, wire curled

- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

	L mm	g
963.9594	300,0	40

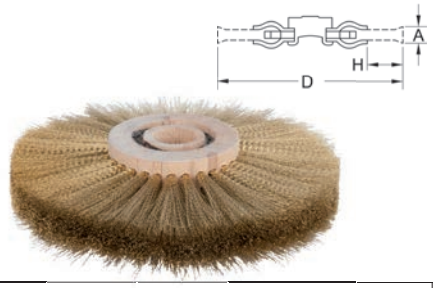
BRONZE*plus* brush end, wire curled

- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

	D1 mm	D2 mm	H mm	L mm	g
963.9595	26,0	6,0	30,0	80,0	640

BRONZE*plus* tin bronze wire wheel brush, curled

- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

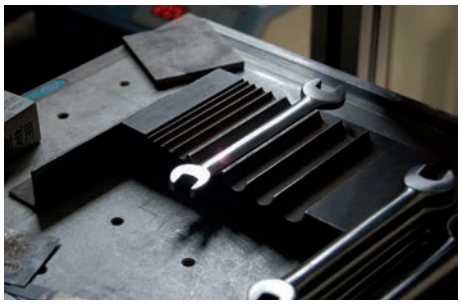


	A mm	D mm	H mm	g
963.9596	45,0	150,0	20,0	520

BRONZE*plus* tin bronze wire cup brush, curled

- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

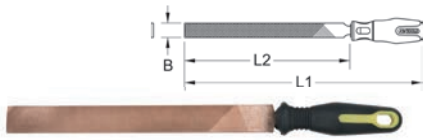
	D mm	H mm	L mm	g
963.9597	85,0	20,0	35,0	700



NON SPARKING FILES

BERYLLIUM*plus* flat file

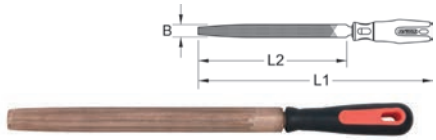
- In accordance to DIN 7261 Form A
- Two component handle
- With hanging hole
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)



		B mm	L1 mm	L2 mm	g
962.7301	1	25,0	360,0	245,0	330
962.7302	3	25,0	360,0	245,0	330

BERYLLIUM*plus* half round file

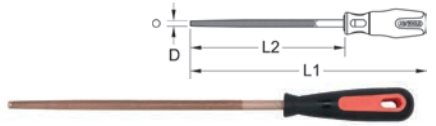
- In accordance to DIN 7261 Form E
- Two component handle
- With hanging hole
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)



		B mm	L1 mm	L2 mm	g
962.7101	1	22,0	365,0	250,0	340
962.7102	3	22,0	365,0	250,0	340

BERYLLIUM*plus* round file

- In accordance to DIN 7261 Form F
- Two component handle
- With hanging hole
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)

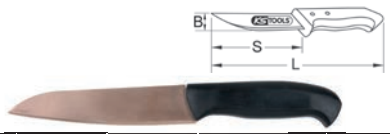


		D mm	L1 mm	L2 mm	g
962.7201	1	8,0	360,0	250,0	180
962.7202	3	8,0	360,0	250,0	180

NON SPARKING KNIVES

BERYLLIUM*plus* cutter

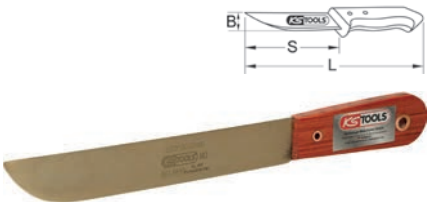
- Durable and fixed blade
- With plastic handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)



	B mm	L mm	S mm	g
962.9030	30,0	180,0	80	60

BRONZE*plus* cutter

- Durable and fixed blade
- With wooden handle
- Reinforced execution
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

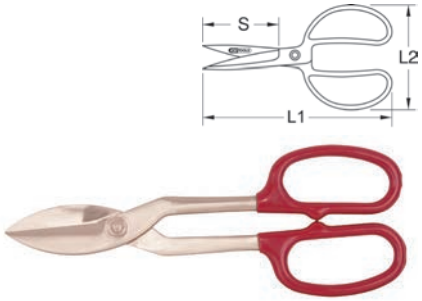


	B mm	L mm	S mm	g
963.9510	30,0	300,0	200	300

NON SPARKING SHEARS

BERYLLIUM*plus* metal shears

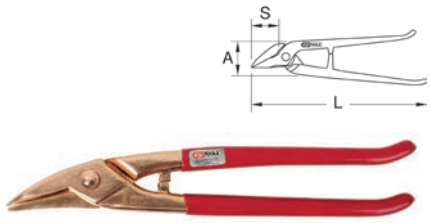
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)



	L1 mm	L2 mm	S mm	g
962.9015	300,0	120,0	70,0	450

BERYLLIUM*plus* Ideal pattern

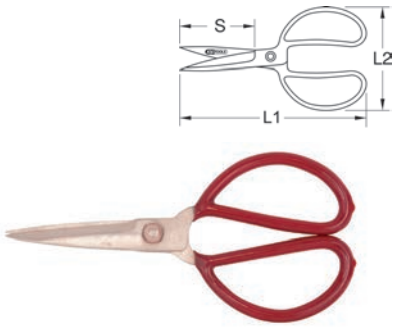
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)



	A mm	L mm	S mm	g
962.9016	35,0	280,0	50	520

BERYLLIUM*plus* universal shear

- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)



	L1 mm	L2 mm	S mm	g
962.9017	210,0	110,0	80,0	300

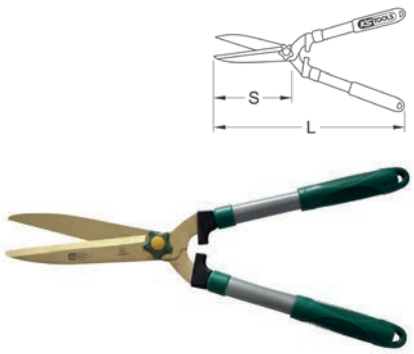
BERYLLIUM*plus* universal shear

- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)

	L1 mm	L2 mm	S mm	g
962.9018	220,0	90,0	100	450

BERYLLIUM*plus* hedge shears

- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)



	L mm	S mm	kg
962.9033	520,0	300	1,40

NON SPARKING CUTTING TOOLS

BRONZE*plus* reaping hook

- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

	L1 mm	L2 mm	B mm	g
963.9651	380,0	220,0	200,0	800

BRONZE*plus* draw knife

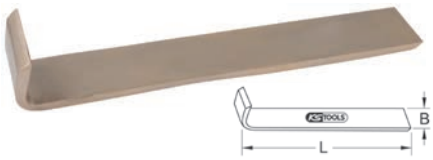
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

	L mm	A mm	kg
963.5705	650,0	250,0	1,50

NON SPARKING SCRAPERS

BRONZE*plus* deck scraper

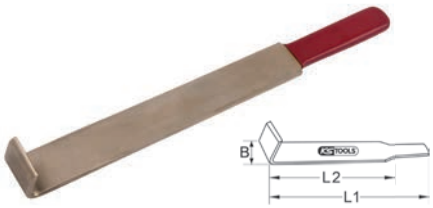
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L mm	B mm	g
963.9520	200,0	22,0	210
963.9521	255,0	40,0	480
963.9522	300,0	50,0	570

BRONZE*plus* deck scraper with handle

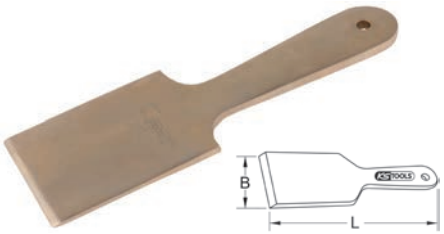
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L1 mm	L2 mm	B mm	g
963.9523	380,0	280,0	38,0	780

BRONZE*plus* spray booth scraper

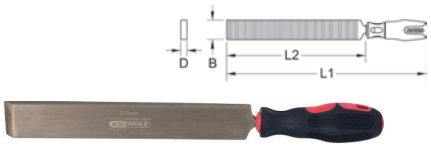
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L mm	B mm	g
963.9530	235,0	75,0	450

BRONZE*plus* flat scraper

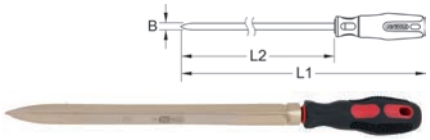
- In accordance to DIN 8350 Form A
- Work areas ground
- Two component handle
- With hanging hole
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	B mm	D mm	L1 mm	L2 mm	g
963.9531	37,0	6,0	315,0	205,0	290

BRONZE*plus* triangular scraper

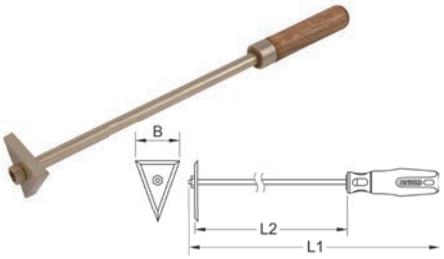
- In accordance to DIN 8350 Form C
- Work areas ground
- Two component handle
- With hanging hole
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	B mm	L1 mm	L2 mm	g
963.9532	16,0	365,0	255,0	220

BRONZE*plus* ship scraper

- In accordance to DIN 8350 Form C
- Work areas ground
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L1 mm	L2 mm	B mm	g
963.9533	420,0	100,0	70,0	650

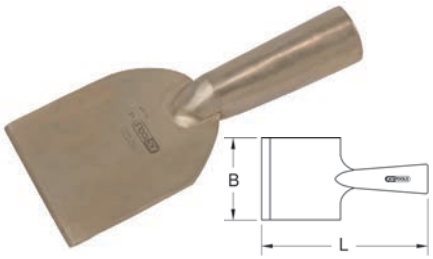
BRONZE*plus* scraper with handle

- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

	L mm	B mm	g
963.9534	480,0	95,0	620

BRONZE*plus* scraper

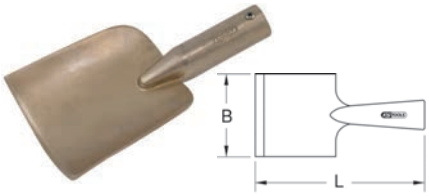
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L mm	B mm	kg
963.9535	220,0	75,0	0,58
963.9536	220,0	100,0	0,83
963.9537	220,0	125,0	0,88
963.9538	220,0	150,0	1,02

BRONZE*plus* scraper, concave

- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

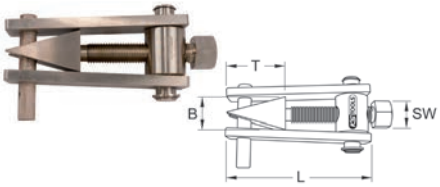


	L mm	B mm	kg
963.9539	240,0	100,0	0,90
963.9540	240,0	150,0	1,35

NON SPARKING FLANGE SPREADERS

BRONZE*plus* flange spreader

- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

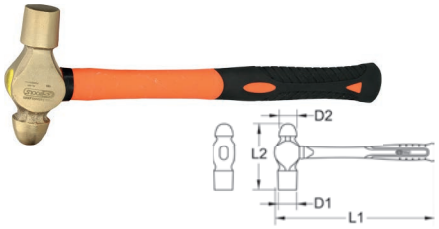


	mm	L mm	B mm	T mm	kg
963.5607	46	300,0	60,0	55,0	7,20

NON SPARKING HAMMERS

BRONZE*plus* ball pin hammer

- With fibreglass handle
- English type
- Surfaces polished ground
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	g	D1 mm	D2 mm	L1 mm	L2 mm	kg
963.0323	200	23,0	23,0	270,0	80,0	0,23
963.0324	300	26,0	26,0	285,0	90,0	0,34
963.0325	350	29,0	28,0	310,0	101,0	0,45
963.0326	600	34,0	37,0	345,0	116,0	0,68
963.0327	750	38,0	34,0	355,0	127,0	0,91
963.0328	950	40,0	38,0	355,0	137,0	1,13
963.0329	1100	42,0	41,0	405,0	147,0	1,35

BRONZE*plus* ball pin hammer

- With hickory handle
- American form
- Surfaces polished ground
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

	g	D1 mm	D2 mm	L1 mm	L2 mm	kg
963.2105	100	20,0	17,0	310,0	50,0	0,25
963.2106	150	24,0	20,0	310,0	55,0	0,30
963.2107	200	25,0	21,0	310,0	60,0	0,35
963.2108	300	30,0	25,0	310,0	65,0	0,45
963.2109	400	34,0	18,0	340,0	70,0	0,60
963.2110	500	36,0	30,0	340,0	75,0	0,66
963.2111	600	38,0	32,0	340,0	80,0	0,76
963.2112	700	40,0	34,0	340,0	85,0	0,86
963.2113	800	42,0	36,0	380,0	90,0	0,97
963.2114	900	44,0	38,0	380,0	95,0	1,06
963.2115	1000	45,0	40,0	380,0	100,0	1,17
963.2116	1300	50,0	42,0	400,0	110,0	1,47
963.2117	1500	52,0	44,0	400,0	120,0	1,67
963.2118	2000	54,0	46,0	400,0	130,0	2,20

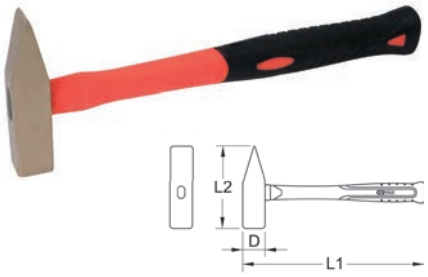
BRONZE*plus* ball pin hammer

- In accordance to DIN 1041
- With hickory handle
- Head and edge areas ground
- Rounded edges
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

	g	D mm	L1 mm	L2 mm	kg
963.2005	100	15,0	260,0	82,0	0,17
963.2006	150	16,0	260,0	87,0	0,22
963.2007	200	19,0	280,0	95,0	0,27
963.2008	300	23,0	280,0	105,0	0,37
963.2009	400	25,0	310,0	112,0	0,47
963.2010	500	27,0	310,0	115,0	0,50
963.2011	600	29,0	310,0	120,0	0,72
963.2012	700	30,0	340,0	125,0	0,82
963.2013	800	33,0	340,0	128,0	0,93
963.2014	900	34,0	360,0	133,0	1,05
963.2015	1000	35,0	360,0	136,0	1,15
963.2016	1250	40,0	380,0	140,0	1,40
963.2017	1500	42,0	400,0	145,0	1,70
963.2018	2000	45,0	400,0	155,0	2,30

BRONZE*plus* ball pin hammer

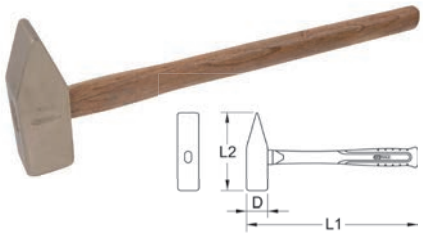
- In accordance to DIN 1041
- With fibreglass handle
- Head and edge areas ground
- Rounded edges
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	g	D mm	L1 mm	L2 mm	kg
963.2019	300	23,0	310,0	105,0	0,37
963.2020	400	25,0	310,0	112,0	0,47
963.2021	500	27,0	310,0	115,0	0,60
963.2022	800	33,0	340,0	130,0	0,90
963.2023	1000	35,0	340,0	135,0	1,13
963.2024	1500	42,0	400,0	145,0	1,70
963.2025	2000	45,0	400,0	155,0	2,40

BRONZE*plus* Sledge hammer

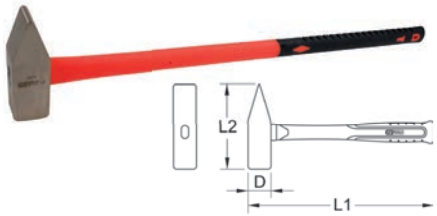
- In accordance to DIN 1042
- With hickory handle
- Head and edge areas ground
- Rounded edges
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	g	D mm	L1 mm	L2 mm	kg
963.2030	2500	50,0	900,0	165,0	3,00
963.2031	3000	55,0	900,0	175,0	3,70
963.2032	4000	60,0	900,0	180,0	4,80
963.2033	5000	68,0	900,0	185,0	5,80
963.2034	6000	74,0	900,0	190,0	6,80
963.2035	8000	78,0	900,0	195,0	8,90
963.2036	9000	82,0	900,0	200,0	9,90
963.2037	10000	85,0	900,0	210,0	10,90
963.2038	12000	90,0	900,0	220,0	13,00
963.2039	15000	100,0	900,0	230,0	16,00

BRONZE*plus* Sledge hammer

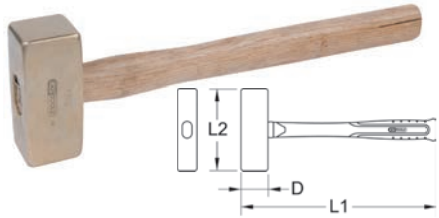
- In accordance to DIN 1041
- With fibreglass handle
- Head and edge areas ground
- Rounded edges
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	g	D mm	L1 mm	L2 mm	kg
963.2040	3000	55,0	900,0	175,0	4,05
963.2041	4000	60,0	900,0	180,0	5,10
963.2042	5000	68,0	900,0	185,0	6,10
963.2043	8000	78,0	900,0	195,0	9,10
963.2044	10000	85,0	900,0	210,0	11,15

BRONZE*plus* club hammer

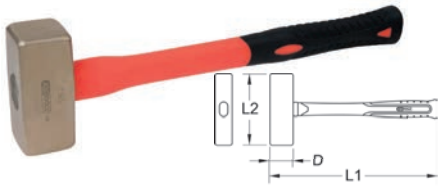
- In accordance to DIN 6475
- With hickory handle
- Surfaces polished ground
- Rounded edges
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	g	D mm	L1 mm	L2 mm	kg
963.2050	1000	40,0	400,0	95,0	1,17
963.2051	1250	40,0	400,0	115,0	1,40
963.2052	1500	45,0	400,0	115,0	1,70
963.2053	2000	50,0	400,0	115,0	2,20
963.2054	2500	55,0	400,0	130,0	2,70
963.2055	3000	55,0	900,0	145,0	3,70
963.2056	4000	60,0	900,0	150,0	4,70
963.2057	5000	65,0	900,0	170,0	5,70
963.2058	6000	70,0	900,0	170,0	6,80
963.2059	8000	75,0	900,0	190,0	8,80
963.2060	10000	80,0	900,0	210,0	10,90

BRONZE*plus* club hammer

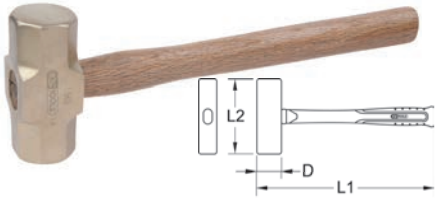
- In accordance to DIN 6475
- With fibreglass handle
- Surfaces polished ground
- Rounded edges
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	g	D mm	L1 mm	L2 mm	kg
963.2061	1000	40,0	400,0	105,0	1,30
963.2062	1250	42,0	400,0	110,0	1,60
963.2063	1500	44,0	400,0	115,0	1,90
963.2064	2000	48,0	400,0	130,0	2,40
963.2065	2500	52,0	400,0	150,0	2,90
963.2066	3000	54,0	900,0	155,0	4,00
963.2067	4000	58,0	900,0	160,0	5,10
963.2068	5000	64,0	900,0	165,0	6,10
963.2069	6000	67,0	900,0	175,0	7,10
963.2070	8000	75,0	900,0	190,0	9,10
963.2071	10000	78,0	900,0	205,0	10,10

BRONZE*plus* Mining hammer

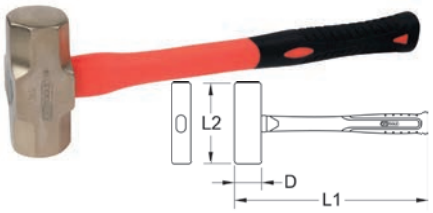
- In accordance to DIN 6475
- With hickory handle
- Surfaces polished ground
- Rounded edges
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	g	D mm	L1 mm	L2 mm	kg
963.2080	1000	40,0	350,0	115,0	1,40
963.2081	1500	44,0	400,0	118,0	1,95
963.2082	2500	55,0	400,0	150,0	3,00
963.2083	3500	58,0	900,0	160,0	4,20
963.2084	5000	65,0	900,0	175,0	5,75
963.2085	8000	80,0	900,0	200,0	8,75

BRONZE*plus* Mining hammer

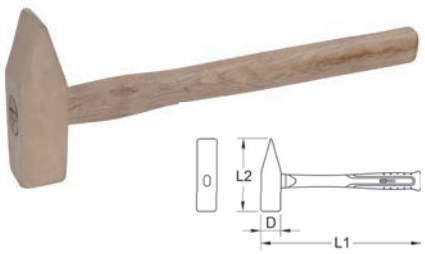
- In accordance to DIN 6475
- With fibreglass handle
- Surfaces polished ground
- Rounded edges
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	g	D mm	L1 mm	L2 mm	kg
963.2086	1000	40,0	350,0	115,0	1,50
963.2087	1500	44,0	400,0	118,0	2,05
963.2088	2500	55,0	400,0	150,0	3,10
963.2089	3500	58,0	900,0	160,0	4,60
963.2090	5000	65,0	900,0	175,0	6,10
963.2091	8000	80,0	900,0	200,0	8,10

BRONZE*plus* Hand hammer

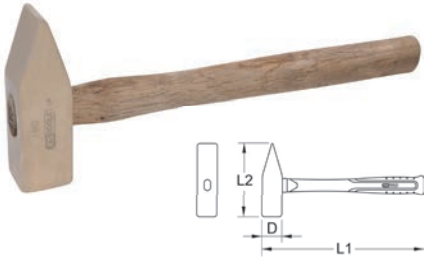
- In accordance to DIN 1041
- With hickory handle
- American form
- Surfaces polished ground
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	g	D mm	L1 mm	L2 mm	kg
963.2120	700	30,0	310,0	115,0	0,90
963.2121	1200	40,0	400,0	135,0	1,40
963.2122	1600	40,0	400,0	140,0	1,85

BRONZE*plus* Set hammer

- In accordance to DIN 1041
- With hickory handle
- Head and edge areas ground
- Rounded edges
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	g	D mm	L1 mm	L2 mm	kg
963.2125	1500	42,0	395,0	145,0	1,70

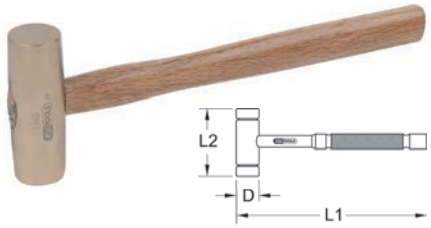
BRONZE*plus* Hole/Drift punch

- With hickory handle
- Head and edge areas ground
- Rounded edges
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

	g	D mm	L1 mm	L2 mm	kg
963.2130	1000	32,0	400,0	140,0	1,15
963.2131	2000	45,0	600,0	160,0	2,15
963.2132	3000	50,0	900,0	180,0	3,80
963.2133	5000	60,0	900,0	220,0	5,80

BRONZE*plus* machinist's hammer

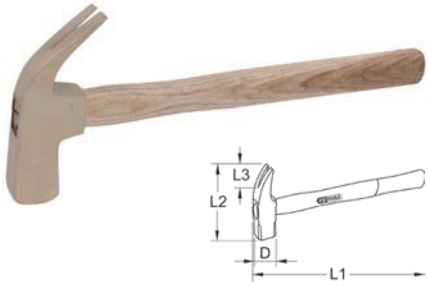
- With hickory handle
- American form
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	g	D mm	L1 mm	L2 mm	kg
963.2140	100	20,0	310,0	50,0	0,24
963.2141	300	28,0	310,0	65,0	0,44
963.2142	500	32,0	310,0	80,0	0,64
963.2143	600	33,0	340,0	90,0	0,74
963.2144	800	36,0	340,0	100,0	0,95
963.2145	900	37,0	380,0	110,0	1,10
963.2146	1100	38,0	380,0	120,0	1,25

BRONZE*plus* claw hammer

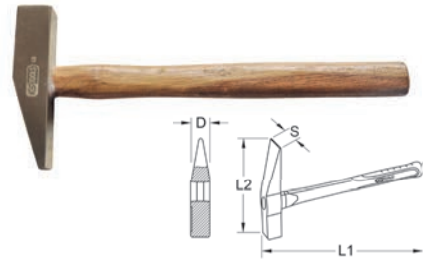
- With hickory handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	g	D mm	L1 mm	L2 mm	L3 mm	kg
963.2150	300	24,0	310,0	110,0	25,0	440
963.2151	400	29,0	340,0	120,0	30,0	540
963.2152	500	32,0	340,0	125,0	30,0	640
963.2153	600	35,0	340,0	135,0	30,0	740

BRONZE*plus* brick hammer

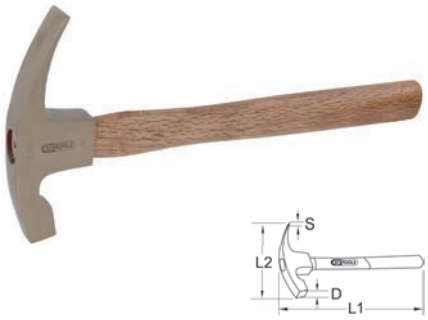
- In accordance to DIN 5108
- With hickory handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	g	D mm	L1 mm	L2 mm	S mm	kg
963.2160	600	27,0	310,0	120,0	40,0	0,70
963.2161	800	35,0	310,0	135,0	45,0	0,90
963.2162	1000	40,0	400,0	145,0	48,0	1,15

BRONZE*plus* brick hammer

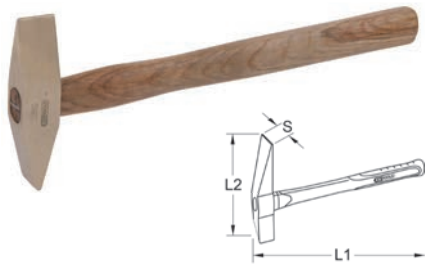
- With hickory handle
- American form
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	g	D mm	L1 mm	L2 mm	S mm	kg
963.2163	700	22,0	360,0	170,0	34,0	840

BRONZE*plus* scaling hammer

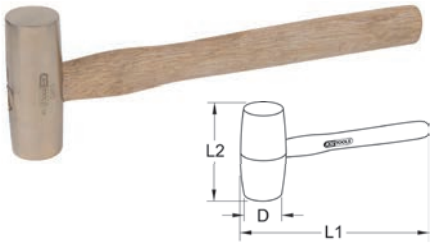
- With hickory handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	g	L1 mm	L2 mm	S mm	kg
963.2170	200	280,0	115,0	19,0	0,25
963.2171	400	310,0	125,0	27,0	0,50
963.2172	500	310,0	140,0	30,0	0,62
963.2173	600	310,0	145,0	32,0	0,75
963.2174	800	340,0	150,0	35,0	0,95
963.2175	900	340,0	155,0	38,0	1,10
963.2176	1400	380,0	160,0	45,0	1,60

BRONZE*plus* mallet

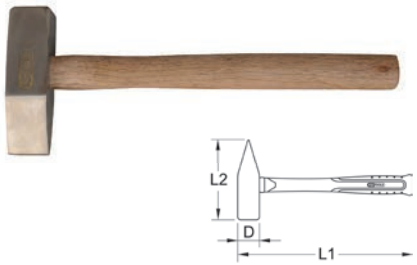
- With hickory handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	g	D mm	L1 mm	L2 mm	kg
963.2180	900	45,0	380,0	75,0	1,10
963.2181	1800	60,0	380,0	85,0	2,00
963.2182	2700	70,0	790,0	90,0	3,00

BRONZE*plus* cutoff hammer

- With hickory handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	g	D mm	L1 mm	L2 mm	kg
963.2595	1300	40,0	400,0	140,0	1,53
963.2596	2100	45,0	400,0	155,0	2,62

BRONZE*plus* pin punch

- With hickory handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

	g	D mm	L1 mm	L2 mm	kg
963.2405	800	8,0	340,0	140,0	0,95
963.2406	800	10,0	340,0	140,0	0,95
963.2407	1200	12,0	380,0	160,0	1,40
963.2408	1200	16,0	380,0	160,0	1,40

BRONZE*plus* securing for hammers

- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

		kg
963.5602	up to 2 kg	80
963.5603	2 - 6 kg	140

NON SPARKING AXES

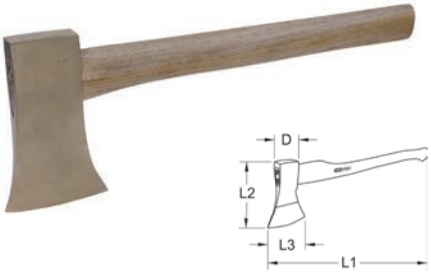
BRONZE*plus* hoe

- With beech handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

	S mm	L mm	kg
963.9605	120,0	950,0	2,30

BRONZE*plus* hatchet

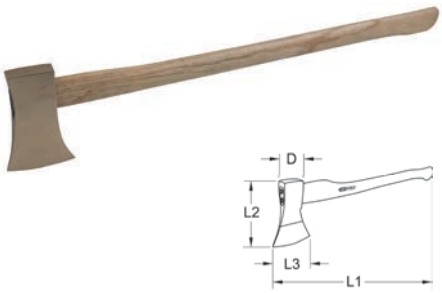
- With hickory handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	D mm	L1 mm	L2 mm	L3 mm	kg
963.9606	50,0	480,0	155,0	110,0	1,45
963.9607	70,0	610,0	185,0	110,0	1,50

BRONZE*plus* axe

- With hickory handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	D mm	L1 mm	L2 mm	L3 mm	kg
963.9608	60,0	750,0	185,0	130,0	1,60
963.9609	60,0	900,0	185,0	130,0	2,20

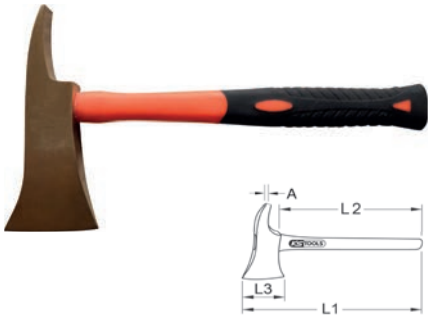
BRONZE*plus* fireman's axe

- In accordance to DIN 14900
- With hickory handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

	L1 mm	L2 mm	L3 mm	kg
963.9610	800,0	240,0	100,0	2,60

BERYLLIUM*plus* fireman's hatchet

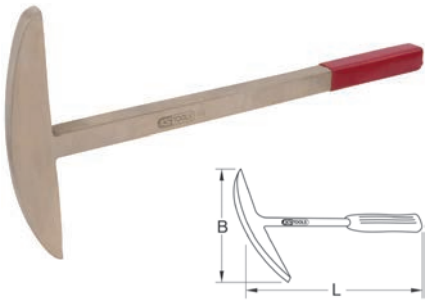
- With fibreglass handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)



	A mm	L1 mm	L2 mm	L3 mm	g
962.9032	27,0	400,0	200,0	85,0	900

BRONZE*plus* hand pick

- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

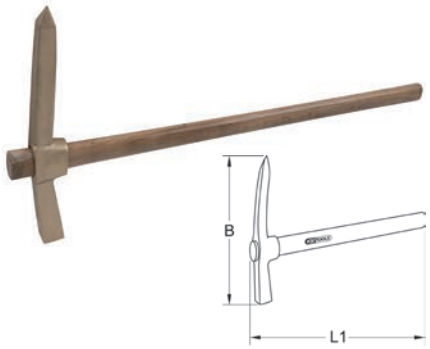


	L mm	B mm	kg
963.9611	420,0	220,0	2,15

NON SPARKING PICKS

BRONZE*plus* miner's pick

- Without handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L mm	B mm	kg
963.9612	890,0	400,0	2,20

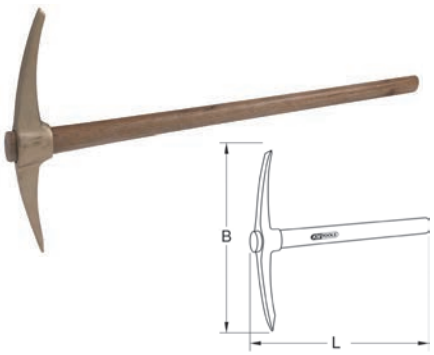
BRONZE*plus* fireman's hook

- In accordance to DIN 14851
- Without handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

	L mm	Width mm	kg
963.9613	380,0	176,0	1,80

BRONZE*plus* pick axe

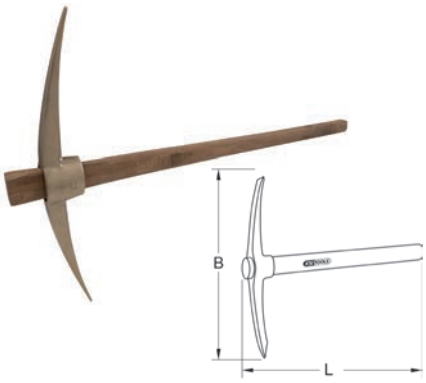
- In accordance to DIN 20109
- With beech handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L mm	B mm	kg
963.9620	800,0	400,0	2,15
963.9621	950,0	500,0	3,50
963.9622	950,0	550,0	4,00

BRONZE*plus* pick axe

- With beech handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L mm	B mm	kg
963.9623	950,0	650,0	4,10

NON SPARKING CHISELS

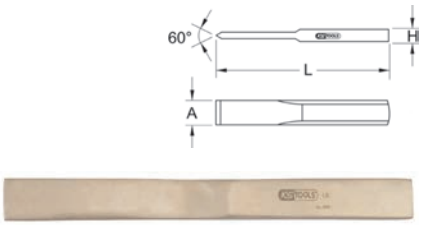
BRONZE*plus* flat chisel

- In accordance to DIN 6453
- Flat oval form
- Burr-free cutting
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

	L mm	A mm	H mm	g
963.2415	150,0	20,0	8,0	200
963.2416	200,0	25,0	8,0	320
963.2417	250,0	25,0	10,0	550
963.2418	300,0	25,0	10,0	560
963.2419	400,0	30,0	12,0	630
963.2420	450,0	30,0	12,0	750
963.2421	500,0	30,0	12,0	920

BRONZE*plus* slitting chisel

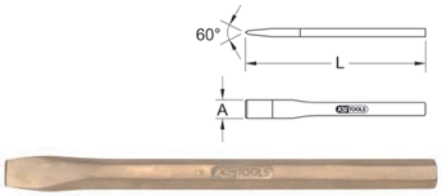
- Flat oval form
- Burr-free cutting
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



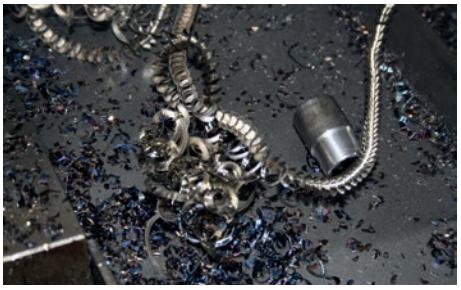
	L mm	A mm	H mm	g
963.2430	200,0	25,0	5,0	360
963.2431	250,0	25,0	5,0	460
963.2432	300,0	25,0	5,0	550

BRONZE*plus* bricklayer's chisel

- In accordance to DIN 7254
- Burr-free cutting
- 6 point
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

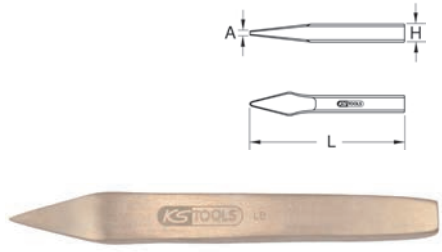


	L mm	A mm	kg
963.2440	200,0	6,0	0,15
963.2441	150,0	8,0	0,04
963.2442	150,0	10,0	0,12
963.2443	150,0	14,0	0,20
963.2444	200,0	14,0	0,25
963.2445	250,0	14,0	0,30
963.2446	300,0	14,0	0,40
963.2447	150,0	17,0	0,30
963.2448	250,0	17,0	0,45
963.2449	300,0	17,0	0,55
963.2450	200,0	19,0	0,50
963.2451	250,0	19,0	0,60
963.2452	350,0	19,0	0,85
963.2453	400,0	19,0	1,00
963.2454	250,0	22,0	0,85
963.2455	300,0	22,0	1,00
963.2456	500,0	22,0	1,60
963.2457	600,0	22,0	2,00
963.2458	250,0	27,0	0,58
963.2459	300,0	32,0	0,85



BRONZE*plus* cross cut chisel

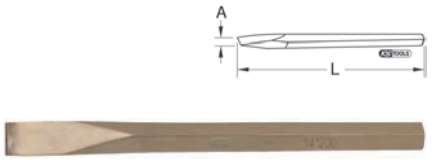
- In accordance to DIN 6451
- Flat oval form
- Burr-free cutting
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L mm	A mm	H mm	g
963.2470	150,0	8,0	18,0	250
963.2471	200,0	8,0	20,0	340
963.2472	250,0	8,0	22,0	480
963.2473	300,0	10,0	25,0	640

BRONZE*plus* cross cut chisel

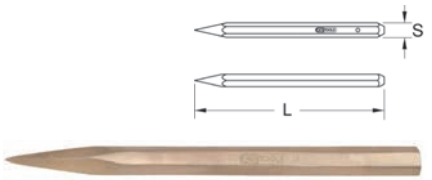
- In accordance to DIN 6451
- 6 point
- Burr-free cutting
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L mm	A mm	g	
963.2480	200,0	14,0	270	
963.2481	250,0	14,0	330	
963.2482	300,0	17,0	550	
963.2483	400,0	19,0	960	

BRONZE*plus* pointed chisel

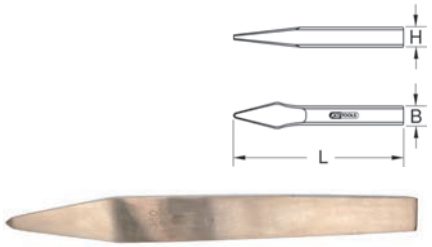
- In accordance to DIN 6451
- 6 point
- Burr-free cutting
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L mm	S mm	g	
963.2490	200,0	14,0	270	
963.2491	250,0	14,0	330	
963.2492	300,0	17,0	550	
963.2493	400,0	19,0	960	

BRONZE*plus* concrete chisel

- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L mm	H mm	B mm	kg	
963.2505	380,0	33,0	33,0	5,00	

NON SPARKING PIN PUNCHES & PUNCHES

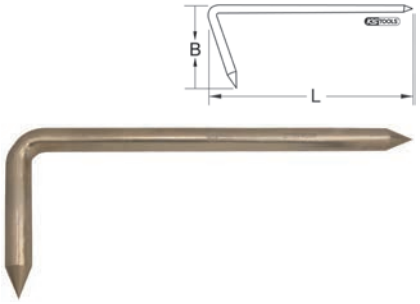
BRONZE*plus* scriber

- For marking of work pieces
- Straight and 70° bent tip
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

	L mm	Ø mm	g	
963.2510	190,0	4,0	50	
963.2511	225,0	6,0	50	

BRONZE*plus* offset pin

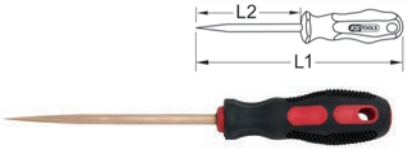
- For marking of work pieces
- Straight and 90° bent tip
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L mm	B mm	Ø mm	kg	
963.2515	300,0	100,0	13,0	0,20	
963.2516	450,0	150,0	19,0	1,30	
963.2517	450,0	150,0	16,0	0,93	
963.2518	450,0	150,0	24,0	2,00	
963.2519	450,0	150,0	27,0	2,30	
963.2520	450,0	150,0	30,0	3,30	
963.2521	500,0	150,0	16,0	1,30	
963.2522	600,0	200,0	20,0	2,40	
963.2523	800,0	200,0	22,0	3,40	

BRONZE*plus* square blade awl

- For piercing and widening of holes
- Two component handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L1 mm	L2 mm	Ø mm	g	
963.2525	180,0	100,0	5,0	80	

BRONZE*plus* pin punch set

- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)
- In a roll bag

			g	
963.2560	6 pcs	BRONZE*plus* pin punch set	310	

1 x		4 mm
5 x		1 - 2 - 3 - 4 - 5 mm

BRONZE*plus* pin punch

- In accordance to DIN 6450
- Conical form
- Strong execution
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

	L mm	D mm	S mm	g	
963.2561	120,0	1,0	8,0	40	
963.2562	120,0	2,0	8,0	40	
963.2563	120,0	3,0	8,0	40	
963.2564	120,0	4,0	8,0	40	
963.2565	120,0	5,0	10,0	60	
963.2530	150,0	6,0	13,0	100	
963.2531	150,0	7,0	17,0	100	
963.2532	200,0	8,0	21,0	320	
963.2533	250,0	12,0	24,0	450	
963.2534	250,0	13,0	30,0	600	

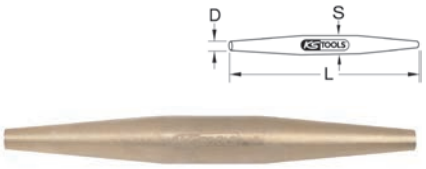
BRONZE*plus* pin punch

- In accordance to DIN 6450
- Conical form
- Extra strong execution
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

	L mm	D mm	S mm	g	
963.2535	220,0	5,0	16,0	280	
963.2536	230,0	10,0	19,0	420	
963.2537	250,0	13,0	24,0	880	

BRONZE*plus* pin punch

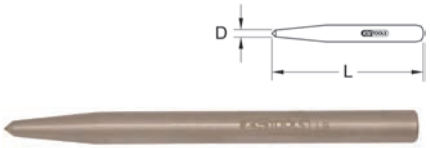
- Barrel type
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L mm	D mm	S mm	g
963.2540	200,0	8,0	17,0	230
963.2541	200,0	8,0	21,0	360
963.2542	200,0	10,0	24,0	270
963.2543	200,0	13,0	27,0	630
963.2544	200,0	18,0	30,0	880
963.2545	200,0	22,0	32,0	1050

BRONZE*plus* centre punch

- In accordance to DIN 7250
- Shaft coded
- Beveled
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L mm	D mm	g
963.2550	100,0	3,0	30
963.2551	110,0	4,0	60
963.2552	125,0	5,0	100
963.2553	150,0	6,0	200

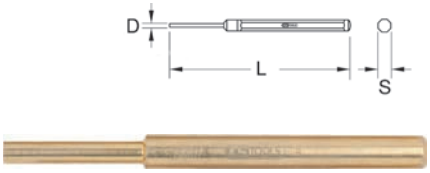
BRONZE*plus* split pin puncher set

- In accordance to DIN 6450
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)
- In a roll bag

			g
963.2590	6 pcs	3 - 4 - 5 - 6 - 8 - 10 mm	440

BRONZE*plus* split pin puncher

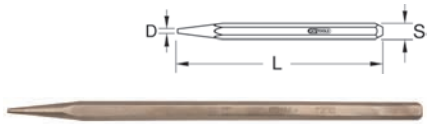
- In accordance to DIN 6450
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L mm	D mm	S mm	g
963.2591	110,0	3,0	9,0	35
963.2592	110,0	4,0	10,0	40
963.2593	120,0	5,0	11,0	78
963.2594	120,0	6,0	12,0	86
963.2597	130,0	8,0	14,0	178
963.2598	140,0	10,0	16,0	205

BRONZE*plus* taper punch

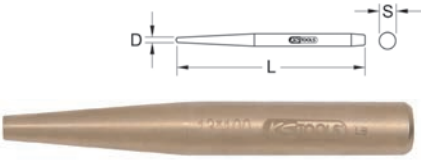
- 4 point
- In accordance to DIN 6450
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L mm	D mm	S mm	kg
963.2566	500,0	5,0	20,0	1,20

BRONZE*plus* straight pin

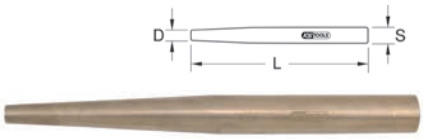
- In accordance to DIN 6451
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L mm	D mm	S mm	g
963.2570	85,0	8,0	12,0	40
963.2571	90,0	10,0	14,0	50
963.2572	100,0	13,0	16,0	70
963.2573	110,0	16,0	20,0	100
963.2574	140,0	19,0	25,0	180
963.2575	160,0	21,0	28,0	270
963.2576	200,0	25,0	30,0	450
963.2577	240,0	29,0	35,0	630

BRONZE*plus* setting punch

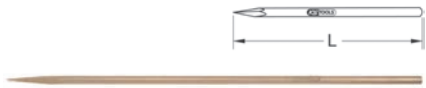
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L mm	D mm	S mm	g
963.2580	180,0	5,0	12,0	110
963.2581	200,0	6,0	13,0	150
963.2582	200,0	8,0	16,0	220
963.2583	200,0	9,0	20,0	340
963.2584	230,0	10,0	22,0	460
963.2585	250,0	11,0	25,0	620
963.2586	280,0	12,0	27,0	870
963.2587	320,0	14,0	30,0	1260
963.2588	350,0	15,0	32,0	1570
963.2589	380,0	16,0	36,0	2230

BRONZE*plus* thread cleaning pin

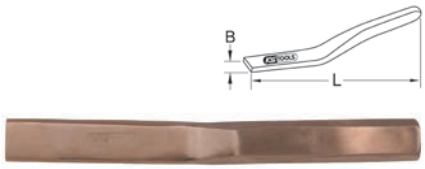
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	Ø mm	L mm	g
963.9505	6,0	300,0	20
963.9506	10,0	300,0	180
963.9507	13,0	300,0	350

BERYLLIUM*plus* caulking tool

- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)



	B mm	L mm	g
962.0202	2,0	150,0	370
962.0203	3,0	160,0	410
962.0204	4,0	180,0	390
962.0205	5,0	200,0	520
962.0206	6,0	200,0	420
962.0207	7,0	220,0	500
962.0208	8,0	220,0	520
962.0209	9,0	220,0	520
962.0210	10,0	250,0	600
962.0212	12,0	250,0	540

NON SPARKING CONSTRUCTION TOOLS

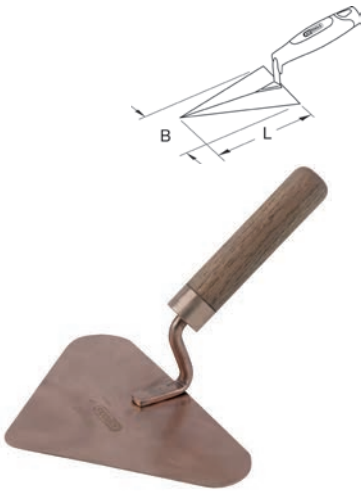
BRONZE*plus* rust scraper

- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

	L mm	B mm	kg
963.9545	600,0	75,0	0,53
963.9546	800,0	75,0	0,62
963.9547	1000,0	75,0	0,74
963.9548	1200,0	75,0	1,16

BRONZE*plus* brick trowel

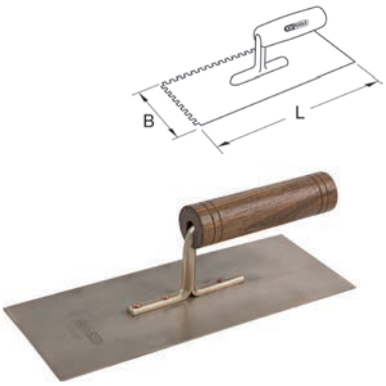
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L mm	B mm	kg
963.9550	215,0	130,0	350
963.9551	240,0	135,0	540

BRONZE*plus* plastering trowel

- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L mm	B mm	kg
963.9552	280,0	120,0	810

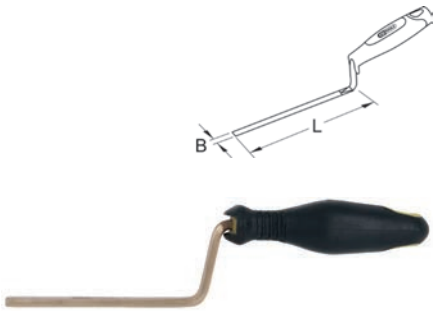
BRONZE*plus* pointed trowel

- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

	L mm	B mm	kg
963.9553	180,0	92,0	180

BRONZE*plus* jointing trowel

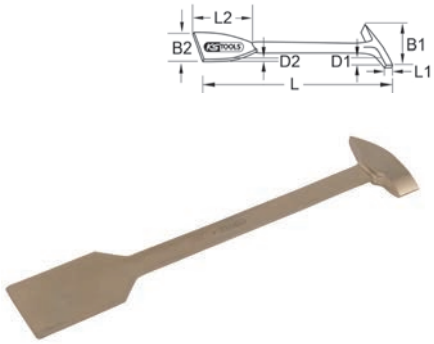
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L mm	B mm	kg
963.9554	100,0	10,0	100

BRONZE*plus* pick scraper

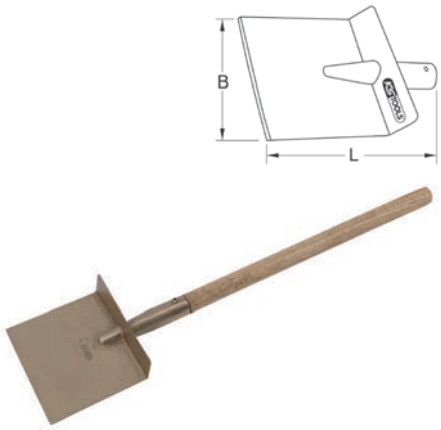
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L mm	B1 mm	B2 mm	D1 mm	D2 mm	L1 mm	L2 mm	kg
963.9565	480,0	110,0	70,0	20,0	10,0	40,0	125,0	1,20

BRONZE*plus* floor scraper

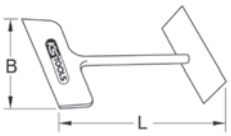
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L mm	B mm	kg
963.9570	170,0	150,0	720

BRONZE*plus* deck scraper

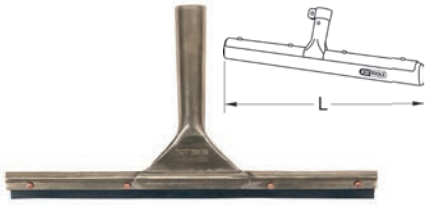
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L mm	B mm	g	
963.9575	150,0	75,0	500	
963.9576	235,0	125,0	800	

BRONZE*plus* rubber pusher

- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L mm	g	
963.9592	300,0	300	

Non-sparking buckets

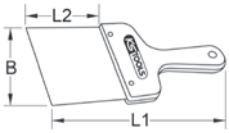
- Revolving stop handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant

	l	Material	H mm	D mm	kg	
963.5505	10	brass	270,0	185,0	1,46	
963.5506	12	aluminium	290,0	200,0	0,74	

NON SPARKING SPATULAS

BRONZE*plus* wide scraper, stiff blade

- With wooden handle
- With hanging hole
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L1 mm	L2 mm	B mm	g	
963.9560	195,0	80,0	120,0	250	
963.9561	195,0	80,0	140,0	270	
963.9562	205,0	90,0	160,0	300	
963.9563	205,0	90,0	180,0	350	

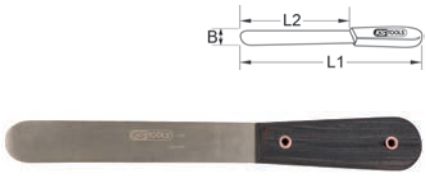
BERYLLIUM*plus* scraper, flexible blade

- With wooden handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)

	L1 mm	L2 mm	B mm	g	
962.0301	200,0	95,0	25,0	75	
962.0302	200,0	95,0	30,0	85	
962.0303	200,0	95,0	40,0	95	
962.0304	200,0	95,0	50,0	105	
962.0305	200,0	95,0	60,0	115	
962.9031	200,0	95,0	75,0	130	
962.0306	200,0	95,0	100,0	145	

BRONZE*plus* spatula

- With wooden handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

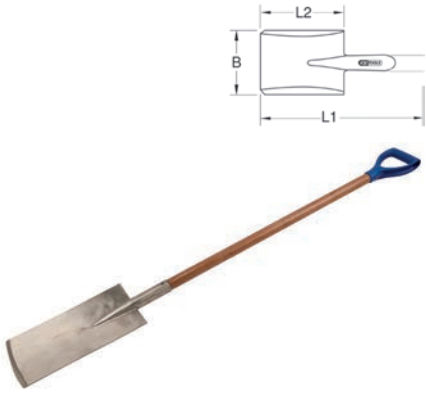


	L1 mm	L2 mm	B mm	g	
963.9515	260,0	150,0	25,0	350	
963.9516	350,0	230,0	40,0	800	
963.9517	490,0	355,0	50,0	1750	

NON SPARKING SHOVELS & FORKS

BRONZE*plus* spades

- With beech handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L1 mm	L2 mm	B mm		kg	
963.9630	1250,0	260,0	180,0	straight	3,50	
963.9631	1250,0	260,0	180,0	D handle	3,65	

BRONZE*plus* folding spade

- With beech handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

	L1 mm	L2 mm	B mm	kg
963.9632	670,0	210,0	160,0	1,30

BRONZE*plus* round point shovel

- With beech handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

	L1 mm	L2 mm	B mm		kg
963.9635	1400,0	340,0	260,0	straight	1,85
963.9636	1000,0	340,0	260,0	D handle	1,85

BRONZE*plus* shovel

- With beech handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

	L1 mm	L2 mm	B mm		kg
963.9637	1400,0	400,0	270,0	straight	1,95
963.9638	1000,0	400,0	270,0	D handle	1,95

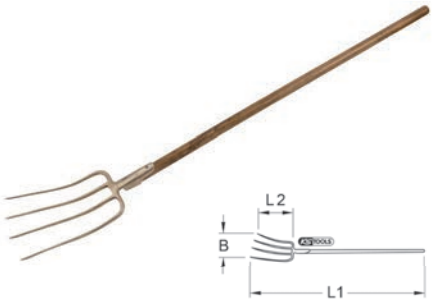
BRONZE*plus* hand shovel

- With beech handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

	L1 mm	L2 mm	B mm	g
963.9639	540,0	220,0	180,0	720

BRONZE*plus* manure fork

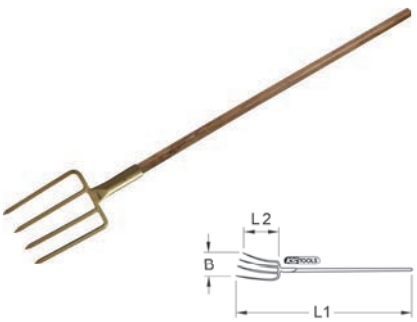
- With beech handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L1 mm	L2 mm	B mm	kg
963.9645	1600,0	330,0	230,0	1,64

BRONZE*plus* spade fork

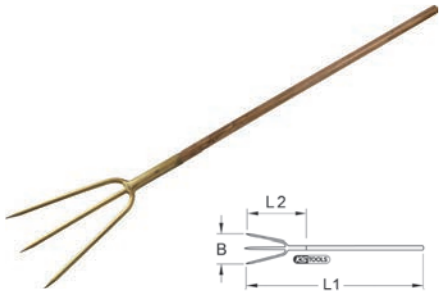
- With beech handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L1 mm	L2 mm	B mm	kg
963.9646	1000,0	290,0	180,0	2,10

BRONZE*plus* hay fork

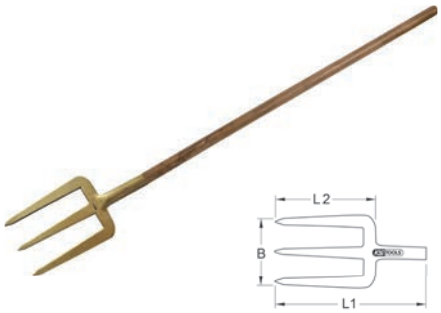
- With beech handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L1 mm	L2 mm	B mm	kg
963.9647	1600,0	290,0	180,0	1,28

BRONZE*plus* fork for gun cotton

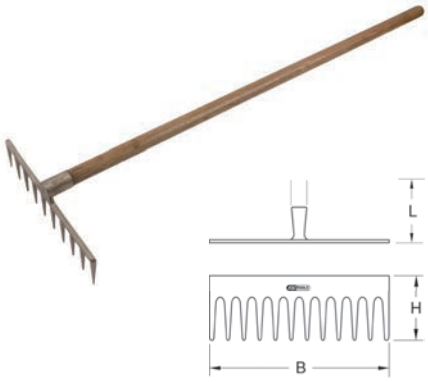
- Without handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L1 mm	L2 mm	B mm	kg
963.9648	200,0	140,0	90,0	0,60
963.9649	370,0	250,0	150,0	1,80

BRONZE*plus* rake

- With beech handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

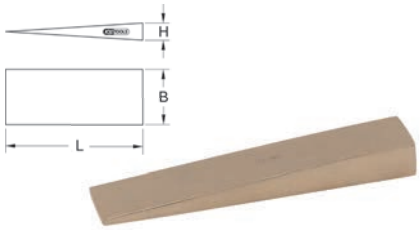


	L mm	B mm	H mm	kg
963.9650	1600,0	360,0	90,0	1,53

NON SPARKING WEDGES

BRONZE*plus* wedge

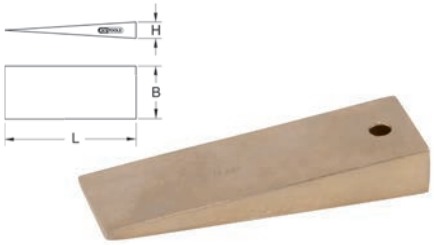
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L mm	B mm	H mm	kg
963.2205	80,0	15,0	6,0	0,04
963.2206	90,0	50,0	10,0	0,20
963.2207	100,0	50,0	10,0	0,21
963.2208	105,0	19,0	13,0	0,10
963.2209	150,0	25,0	13,0	0,25
963.2210	150,0	30,0	13,0	0,28
963.2211	150,0	38,0	19,0	0,40
963.2212	150,0	40,0	13,0	0,35
963.2213	180,0	32,0	13,0	0,30
963.2214	180,0	50,0	10,0	0,40
963.2215	180,0	50,0	19,0	0,70
963.2216	200,0	38,0	25,0	0,90
963.2217	200,0	38,0	41,0	1,30
963.2218	200,0	40,0	40,0	1,38
963.2219	200,0	50,0	19,0	0,80
963.2220	215,0	50,0	32,0	1,40
963.2221	230,0	40,0	20,0	1,00

BRONZE*plus* wedge with hole

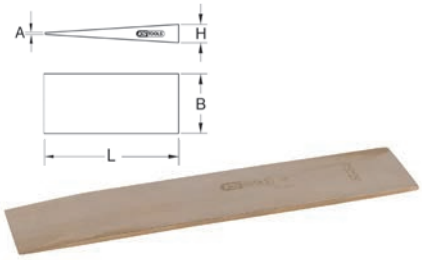
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L mm	B mm	H mm	hole diameter	g
963.2225	100,0	30,0	15,0	6 mm	220

BRONZE*plus* space wedge

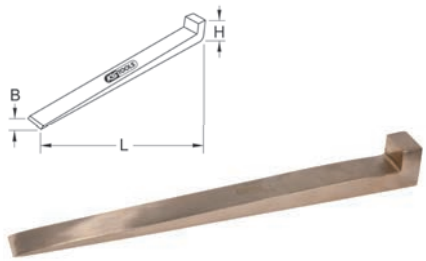
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L mm	B mm	H mm	A mm	g
963.2226	250,0	50,0	5,0	1,2	200

BRONZE*plus* nosekey

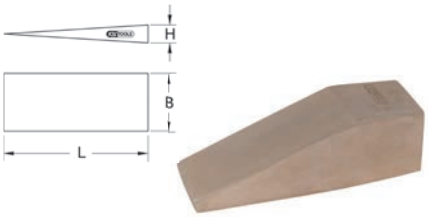
- for a positive connection of the shaft and hub
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L mm	B mm	H mm	kg
963.2230	340,0	20,0	40,0	2,60
963.2231	340,0	30,0	40,0	2,80
963.2232	400,0	30,0	40,0	3,50

BRONZE*plus* stone wedge

- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L mm	B mm	H mm	kg
963.2235	120,0	50,0	44,0	1,10
963.2236	150,0	45,0	45,0	1,40
963.2237	190,0	55,0	47,0	2,00
963.2238	240,0	60,0	50,0	3,00

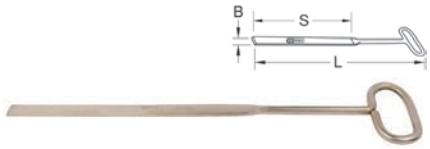
BRONZE*plus* straight gasket knife with mandrel

- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

	L mm	B mm	S mm	g
963.9655	400,0	25,0	220	300

BRONZE*plus* round gasket knife

- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

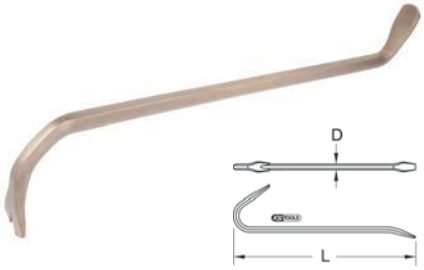


	L mm	B mm	S mm	kg
963.9656	690,0	30,0	400	1,20
963.9657	1240,0	40,0	800	2,00

NON SPARKING PRY BARS

BRONZE*plus* pry bar/crowbar

- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L mm	D mm	kg
963.9705	300,0	14,0	0,40
963.9706	450,0	9,0	1,10
963.9707	600,0	19,0	1,50
963.9708	750,0	22,0	2,50
963.9709	900,0	22,0	3,00

BRONZE*plus* wrecking bar

- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

	L mm	D mm	kg
963.9715	300,0	14,0	0,40
963.9716	450,0	19,0	1,10
963.9717	600,0	19,0	1,50
963.9718	750,0	22,0	2,50
963.9719	900,0	22,0	3,00

NON SPARKING CROWBARS

BRONZE*plus* crowbar

- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

	L mm	S mm	kg
963.9720	450,0	19,0	1,10
963.9721	600,0	19,0	1,50
963.9722	750,0	22,0	2,50
963.9723	900,0	22,0	3,00
963.9724	1000,0	22,0	3,30
963.9725	1250,0	27,0	6,10
963.9726	1500,0	27,0	7,30
963.9727	1800,0	30,0	11,10
963.9728	2000,0	30,0	12,30

BRONZE*plus* crowbar with point and edge

- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

	L mm	Ø mm	kg
963.9730	1000,0	30	6,15
963.9731	1250,0	30	7,70
963.9732	1500,0	30	9,25
963.9733	1800,0	30	11,10
963.9734	2000,0	30	12,30

BRONZE*plus* crowbar with point and claw

- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

	L mm	Ø mm	kg
963.9735	1000,0	30	6,15
963.9736	1250,0	30	7,70
963.9737	1500,0	30	9,25
963.9738	1800,0	30	11,10
963.9739	2000,0	30	12,30

BRONZE*plus* crowbar with edge and ball end

- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

	L mm	Ø mm	kg
963.9745	1000,0	30	6,15
963.9746	1250,0	30	7,70
963.9747	1500,0	30	9,25
963.9748	1800,0	30	11,10
963.9749	2000,0	30	12,30

BRONZE*plus* crowbar with point and ball end

- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

	L mm	Ø mm	kg
963.9755	1000,0	30	6,15
963.9756	1250,0	30	7,70
963.9757	1500,0	30	9,25
963.9758	1800,0	30	11,10
963.9759	2000,0	30	12,30

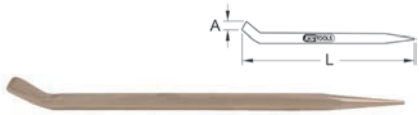
BRONZE*plus* lifting rod

- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

	L mm	B mm	kg
963.9765	650,0	20,0	2,00
963.9766	800,0	20,0	2,70
963.9767	1000,0	20,0	3,40
963.9768	1250,0	25,0	6,20
963.9769	1500,0	25,0	7,70

BRONZE*plus* bending lever

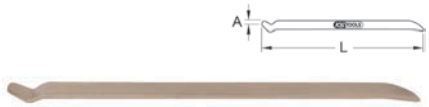
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L mm	A mm	mm	kg
963.9775	200,0	5,0	19	0,66
963.9776	300,0	5,0	19	1,00
963.9777	400,0	5,0	19	1,30
963.9778	500,0	5,0	19	1,60
963.9779	600,0	5,0	19	2,00

BRONZE*plus* tyre lever

- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L mm	A mm	g
963.9785	200,0	20,0	350
963.9786	300,0	25,0	470
963.9787	400,0	30,0	600
963.9788	500,0	35,0	770
963.9789	600,0	38,0	900

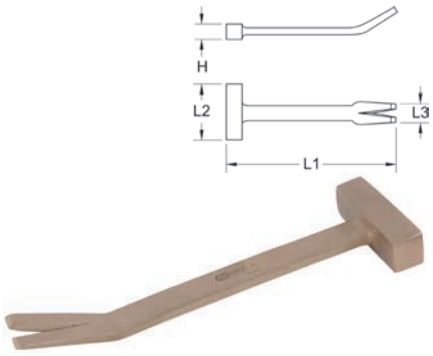
BRONZE*plus* tyre lever, heavy and robust execution

- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

	L mm	A mm	kg
963.9790	600,0	25,0	1,00

BRONZE*plus* crate opener

- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	H mm	L1 mm	L2 mm	L3 mm	g
963.5105	22,0	230,0	70,0	30,0	490

BRONZE*plus* carbide drum opener

- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

	H mm	L1 mm	L2 mm	g
963.5106	10,0	300,0	75,0	750

NON SPARKING DRUM LIFTERS

BRONZE*plus* drum lifter

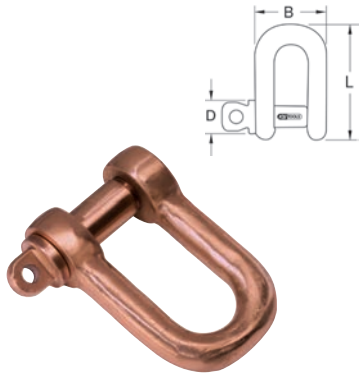
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

	L mm	Max load kg	kg
963.5107	1060,0	600	3,80

NON SPARKING SHACKLES

BERYLLIUM*plus* shackle

- Straight design
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)

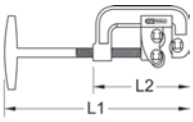


	D mm	L mm	B mm	g
962.9520	25,0	40,0	30,0	100
962.9521	28,0	78,0	37,0	150

NON SPARKING PIPE CUTTERS

BRONZE*plus* pipe cutter

- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

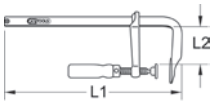


	Ø mm	L1 mm	kg
963.5109	50,0	340,0	2,50

NON SPARKING CLAMPING TOOLS

BRONZE*plus* tension clamp

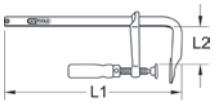
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L1 mm	L2 mm	kg
963.5020	480,0	130,0	2,10

BRONZE*plus* deep tension clamp

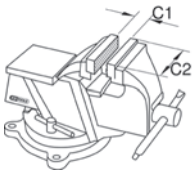
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L1 mm	L2 mm	kg
963.5021	480,0	250,0	3,70

BRONZE*plus* bench vice

- With swivel base
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	C1 mm	C2 mm	kg
963.5005	100,0	90,0	6,50
963.5006	130,0	125,0	15,50
963.5007	150,0	150,0	26,50
963.5008	170,0	170,0	27,40

NON SPARKING NEEDLES

BERYLLIUM*plus* hearing needle

- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)

	L mm	Ø mm	g
962.0220	250,0	6,0	70
962.0221	300,0	8,0	150
962.0222	400,0	7,0	160
962.0223	500,0	10,0	330

BERYLLIUM*plus* hearing needle with ball end

- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)

	L mm	Ø mm	g
962.0224	500,0	6,0	130

BERYLLIUM*plus* needle

- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)

	L mm	Ø mm	g
962.0225	180,0	3,0	20

NON SPARKING OIL PUMPS

BRONZE*plus* portable manual oil pump

- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

	L mm	kg
963.5805	1350,0	5,00

NON SPARKING HOISTS

BRONZE*plus* hand lift truck

- Pallet truck capacity 2.0 t
- Fork length approx. 1.100 mm
- Guide rod length approx. 1.250 mm
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

	Load capacity kg	Total length mm	Width mm	Total depth mm	kg
963.5905	2000	1.100,0	470,0	1250,0	120,00

BRONZE*plus* chain hoist

- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

		Chain length	Max capacity t	kg
963.9905	2 chains	à 2,5 m	0,5 t	10,20
963.9906	2 chains	à 2,5 m	1,0 t	13,60
963.9907	2 chains	à 2,5 m	1,5 t	15,60
963.9908	2 chains	à 2,5 m	2,0 t	22,00
963.9909	2 chains	à 3 m	3,0 t	23,60
963.9910	2 chains	à 3 m	5,0 t	36,00
963.9911	2 chains	à 3 m	10,0 t	68,50
963.9912	2 chains	à 3 m	16,0 t	187,00

KS TOOLS®

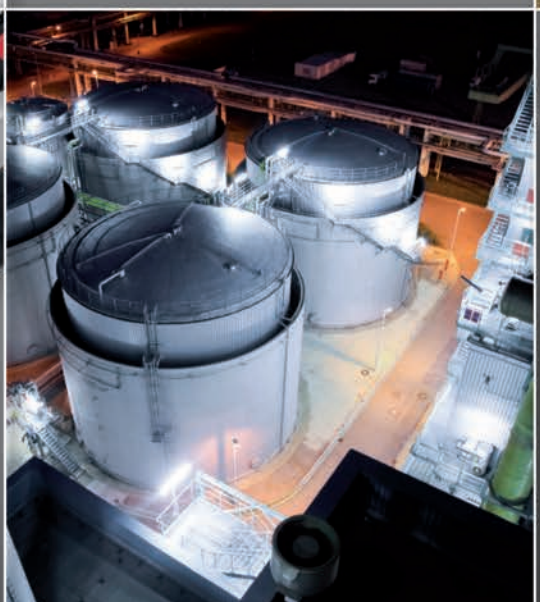
Innovation is our mission!

NON SPARKING TOOLS

BRONZE *plus*
BERYLLIUM *plus*

- Chemical industries
- Petro refineries
- Oil and gas carriages
- Pipeline business
- Drilling platforms
- Fuel service (cleaning etc.)
- Gas and electricity works
- Varnishing
- Federal armed forces, army
- Civil defence and civil protection
- Fire department

You can use it on all places where sparks create potential danger of explosion and fire. For the activities which require the use (application) of a hundred percent non-magnetic and extremely rustproof tools.



STAINLESS STEEL TOOLS / NON-MAGNETIC TITANIUM TOOLS

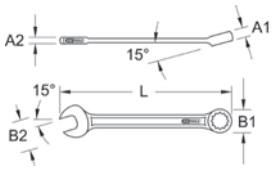
KS TOOLS®

Innovation is our mission!

STAINLESS STEEL SPANNERS

STAINLESS STEEL Combination spanners, offset

- DIN 3113 Form A / ISO 3318 / ISO 7738
- Jaw 15° offset
- Ring head 15° offset
- Suitable for use at extremely low temperatures
- Extreme resistance to intergranular corrosion and oxidation
- Extremely long service life
- Autoclavable (heating of the tools to over 100°C to kill germs)
- Rust-proof and acid resistant
- Stainless steel



	mm	A1 mm	A2 mm	B1 mm	B2 mm	L mm	g
964.0108	8	5,5	4,6	12,8	18,5	125,0	26
964.0110	10	6,5	4,8	15,8	23,2	145,0	42
964.0111	11	6,9	5,2	16,9	25,3	155,0	47
964.0112	12	7,7	5,2	18,7	27,2	165,0	60
964.0113	13	8,3	6,0	20,0	29,4	175,0	68
964.0114	14	8,4	6,0	21,0	30,8	185,0	87
964.0115	15	8,7	6,4	22,5	32,5	195,0	98
964.0117	17	9,3	6,8	25,3	35,9	215,0	119
964.0119	19	10,5	7,4	28,1	40,7	235,0	162

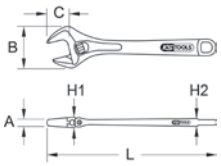
STAINLESS STEEL combination spanner set, offset

- DIN 3113 Form A / ISO 3318 / ISO 7738
- Jaw 15° offset
- Ring head 15° offset
- Suitable for use at extremely low temperatures
- Extreme resistance to intergranular corrosion and oxidation
- Extremely long service life
- Autoclavable (heating of the tools to over 100°C to kill germs)
- Rust-proof and acid resistant
- Stainless steel

			g
964.0130	6 pcs	8 - 10 - 12 - 13 - 17 - 19 mm	621
964.0135	9 pcs	8 - 10 - 11 - 12 - 13 - 14 - 15 - 17 - 19 mm	842

STAINLESS STEEL Adjustable wrench

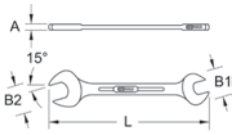
- In accordance to DIN 3117 Form A
- Jaw 15° offset
- Swedish type design
- With mm scale
- With hanging hole
- Suitable for use at extremely low temperatures
- Extreme resistance to intergranular corrosion and oxidation
- Extremely long service life
- Autoclavable (heating of the tools to over 100°C to kill germs)
- Rust-proof and acid resistant
- Stainless steel



	mm	A mm	B mm	C mm	H1 mm	H2 mm	L mm	g
964.1301	18	6,0	43,0	17,0	12,0	5,0	150,0	120
964.1302	24	6,0	52,0	24,0	14,0	6,0	200,0	245
964.1303	30	7,0	67,0	29,0	15,0	7,0	250,0	390
964.1304	36	10,0	77,0	33,0	19,0	8,0	300,0	645
964.1305	46	13,0	96,0	45,0	22,0	9,0	375,0	1175
964.1306	55	13,0	114,0	49,0	26,0	11,0	450,0	1865
964.1307	65	19,0	135,0	55,0	34,0	14,0	600,0	3325

STAINLESS STEEL Open end spanner, 5.5x7mm

- DIN 3113 Form A / ISO 3318 / ISO 7738
- Jaw 15° offset
- Suitable for use at extremely low temperatures
- Extreme resistance to intergranular corrosion and oxidation
- Extremely long service life
- Autoclavable (heating of the tools to over 100°C to kill germs)
- Rust-proof and acid resistant
- Stainless steel



	mm	A mm	B1 mm	B2 mm	L mm	kg
964.2201	5,5x7	4,0	13,0	14,0	94,0	0,05
964.2202	6x7	4,0	13,0	14,0	94,0	0,05
964.2203	8x9	5,0	19,0	23,0	122,0	0,06
964.2204	8x10	5,0	19,0	23,0	122,0	0,05
964.2205	9x11	5,0	22,0	26,0	135,0	0,06
964.2206	10x12	5,0	22,0	26,0	135,0	0,06
964.2207	12x14	7,0	32,0	26,0	150,0	0,09
964.2208	14x17	7,0	32,0	36,0	165,0	0,12
964.2209	16x18	7,0	33,0	36,0	170,0	0,12
964.2210	17x19	8,0	35,0	38,0	185,0	0,15
964.2211	19x22	8,0	40,0	44,0	200,0	0,19
964.2212	22x24	9,0	44,0	47,0	230,0	0,27
964.2213	24x27	10,0	46,0	51,0	250,0	0,34
964.2214	27x30	10,0	50,0	64,0	275,0	0,49
964.2215	30x32	12,0	60,0	64,0	285,0	0,75

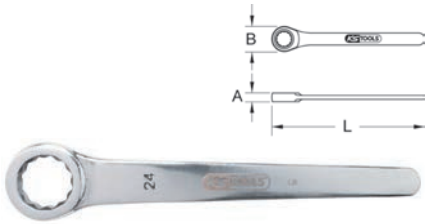
STAINLESS STEEL Open end spanner set

- DIN 3113 Form A / ISO 3318 / ISO 7738
- Jaw 15° offset
- Suitable for use at extremely low temperatures
- Extreme resistance to intergranular corrosion and oxidation
- Extremely long service life
- Autoclavable (heating of the tools to over 100°C to kill germs)
- Rust-proof and acid resistant
- Stainless steel

			kg
964.2240	9 pcs	8x10 - 10x12 - 12x14 - 14x17 - 17x19 - 19x22 - 22x24 - 24x27 - 30x32 mm	2,01
964.2245	11 pcs	8x10 - 9x11 - 10x12 - 12x14 - 14x17 - 17x19 - 19x22 - 22x24 - 24x27 - 27x30 - 30x32 mm	2,55
964.2250	13 pcs	5,5x7 - 6x7 - 8x10 - 9x11 - 10x12 - 12x14 - 14x17 - 17x19 - 19x22 - 22x24 - 24x27 - 27x30 - 30x32 mm	2,64

STAINLESS STEEL Single ring wrench

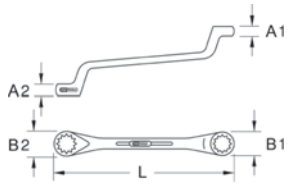
- FlankTraction profile
- Straight form
- Suitable for use at extremely low temperatures
- Extreme resistance to intergranular corrosion and oxidation
- Extremely long service life
- Autoclavable (heating of the tools to over 100°C to kill germs)
- Rust-proof and acid resistant
- Stainless steel



	mm	A mm	B mm	L mm	kg
964.1012	12	11,0	22,0	145,0	0,10
964.1014	14	11,0	26,0	145,0	0,10
964.1017	17	12,0	29,0	150,0	0,13
964.1019	19	12,0	31,0	158,0	0,16
964.1022	22	13,0	36,0	185,0	0,18
964.1024	24	13,0	39,0	197,0	0,23
964.1027	27	14,0	44,0	223,0	0,30
964.1030	30	14,0	50,0	253,0	0,39
964.1032	32	15,0	50,0	253,0	0,46
964.1034	34	15,0	53,0	270,0	0,55
964.1036	36	15,0	55,0	290,0	0,63
964.1038	38	16,0	58,0	30,0	0,71
964.1041	41	17,0	62,0	315,0	0,84
964.1045	45	19,0	71,0	325,0	1,23
964.1046	46	19,0	71,0	325,0	1,21
964.1048	48	21,0	75,0	325,0	1,49
964.1050	50	21,0	75,0	340,0	1,45
964.1055	55	22,0	80,0	360,0	1,95
964.1056	56	22,0	80,0	360,0	1,95
964.1060	60	24,0	89,0	380,0	2,26
964.1065	65	27,0	96,0	415,0	2,75
964.1070	70	27,0	104,0	425,0	3,26
964.1075	75	28,0	114,0	440,0	3,13

STAINLESS STEEL ring spanner offset

- FlankTraction profile
- In accordance to DIN 838 / ISO 1085 / ISO 10104 / ISO 3318
- Ring head 75° offset
- Thin walled
- Suitable for use at extremely low temperatures
- Extreme resistance to intergranular corrosion and oxidation
- Extremely long service life
- Autoclavable (heating of the tools to over 100°C to kill germs)
- Rust-proof and acid resistant
- Stainless steel



	mm	A1 mm	A2 mm	B1 mm	B2 mm	L mm	kg
964.1101	5,5x7	6,0	6,0	10,0	12,0	119,0	0,04
964.1102	6x7	6,0	7,0	12,0	13,0	170,0	0,05
964.1103	8x9	6,0	7,0	12,0	14,0	175,0	0,05
964.1104	8x10	5,0	6,0	13,0	15,0	175,0	0,05
964.1105	9x11	6,0	7,0	16,0	20,0	200,0	0,08
964.1106	10x12	6,0	7,0	16,0	19,0	200,0	0,07
964.1107	12x14	7,0	8,0	19,0	21,0	220,0	0,11
964.1108	14x17	9,0	9,0	22,0	26,0	250,0	0,15
964.1109	16x18	9,0	9,0	24,0	27,0	255,0	0,18
964.1110	17x19	9,0	10,0	26,0	29,0	260,0	0,19
964.1111	19x22	11,0	11,0	29,0	33,0	300,0	0,24
964.1112	22x24	12,0	13,0	32,0	35,0	320,0	0,38
964.1113	24x27	13,0	14,0	36,0	40,0	350,0	0,39
964.1114	27x30	13,0	15,0	40,0	42,0	370,0	0,46
964.1115	30x32	14,0	15,0	44,0	47,0	400,0	0,59

STAINLESS STEEL ring spanner offset set

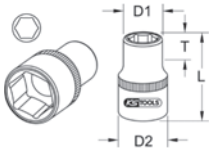
- FlankTraction profile
- In accordance to DIN 838 / ISO 1085 / ISO 10104 / ISO 3318
- Ring head 75° offset
- Thin walled
- Suitable for use at extremely low temperatures
- Extreme resistance to intergranular corrosion and oxidation
- Extremely long service life
- Autoclavable (heating of the tools to over 100°C to kill germs)
- Rust-proof and acid resistant
- Stainless steel

			kg
964.1140	9 pcs	8x10 - 10x12 - 12x14 - 14x17 - 17x19 - 19x22 - 22x24 - 24x27 - 30x32 mm	2,16
964.1145	11 pcs	8x10 - 9x11 - 10x12 - 12x14 - 14x17 - 17x19 - 19x22 - 22x24 - 24x27 - 27x30 - 30x32 mm	2,69
964.1150	13 pcs	5,5x7 - 6x7 - 8x10 - 9x11- 10x12 - 12x14 - 14x17 - 17x19 - 19x22 - 22x24 - 24x27 - 27x30 - 30x32 mm	2,78

1/4" STAINLESS STEEL POINT SOCKETS

STAINLESS STEEL hex socket

- 6 point
- In accordance to DIN 3124 / ISO 2725
- Internal square to DIN 3120 / ISO 1174 with ball reception
- For manual operation
- Suitable for use at extremely low temperatures
- Extreme resistance to intergranular corrosion and oxidation
- Extremely long service life
- Autoclavable (heating of the tools to over 100°C to kill germs)
- Rust-proof and acid resistant
- Stainless steel

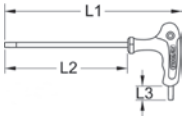


1/4"

	mm	D1 mm	D2 mm	L mm	T mm	g
964.1404	4,0	6,8	11,9	25,0	5,0	11
964.14045	4,5	7,4	11,9	25,0	5,0	11
964.1405	5,0	8,1	11,9	25,0	6,0	11
964.14055	5,5	8,7	11,9	25,0	6,0	11
964.1406	6,0	9,3	11,9	25,0	7,0	11
964.1407	7,0	10,7	11,9	25,0	7,0	12
964.1408	8,0	11,9	11,7	25,0	7,0	11
964.1409	9,0	12,9	11,7	25,0	12,0	12
964.1410	10,0	13,9	12,4	25,0	12,0	14
964.1411	11,0	15,7	13,8	25,0	14,0	17
964.1412	12,0	16,8	14,7	25,0	14,0	21
964.1413	13,0	17,8	15,4	25,0	14,0	22
964.1414	14,0	19,3	16,4	25,0	14,0	26

STAINLESS STEEL Square drive screwdriver

- Square drive adaptor in accordance to DIN 3120 / ISO 1174
- Suitable for use at extremely low temperatures
- Extreme resistance to intergranular corrosion and oxidation
- Extremely long service life
- Autoclavable (heating of the tools to over 100°C to kill germs)
- With T-handle
- Rust-proof and acid resistant
- Stainless steel



1/4"

	■	L1 mm	L2 mm	L3 mm	g
910.2451	1/4"	160,0	90,0	15,0	8

STAINLESS STEEL Socket set

- Can be used by hand or with an electric screwdriver
- Suitable for use at extremely low temperatures
- Extreme resistance to intergranular corrosion and oxidation
- Extremely long service life
- Autoclavable (heating of the tools to over 100°C to kill germs)
- With T-handle
- Rust-proof and acid resistant
- Stainless steel

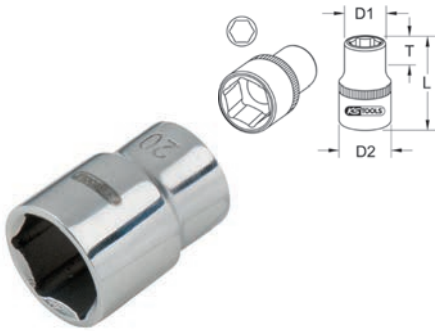
1/4"

			g
910.2450	9 pcs	STAINLESS STEEL Socket set	340
8 x		1/4": 4 - 5 - 6 - 7 - 8 - 10 - 12 - 13 mm	
1 x		1/4"	

1/2" STAINLESS STEEL POINT SOCKETS

STAINLESS STEEL hex socket

- 6 point
- FlankTraction profile
- For manual operation
- Suitable for use at extremely low temperatures
- Extreme resistance to intergranular corrosion and oxidation
- Extremely long service life
- Autoclavable (heating of the tools to over 100°C to kill germs)
- Rust-proof and acid resistant
- Stainless steel



1/2"

	mm	D1 mm	D2 mm	L mm	T mm	g
964.1208	8	13,0	22,0	37,0	14,0	43
964.1209	9	14,0	22,0	38,0	13,0	43
964.1210	10	15,0	22,0	37,0	14,0	43
964.1211	11	17,0	22,0	38,0	13,0	48
964.1212	12	18,0	21,0	38,0	16,0	45
964.1213	13	19,0	22,0	37,0	15,0	48
964.1214	14	20,0	22,0	37,0	18,0	50
964.1215	15	22,0	22,0	38,0	19,0	55
964.1216	16	22,0	22,0	38,0	19,0	55
964.1217	17	24,0	22,0	38,0	21,0	60
964.1218	18	25,0	23,0	38,0	21,0	70
964.1219	19	26,0	23,0	38,0	20,0	65
964.1220	20	27,0	24,0	38,0	21,0	80
964.1221	21	28,0	25,0	38,0	21,0	75
964.1222	22	30,0	26,0	38,0	21,0	90
964.1223	23	32,0	27,0	40,0	22,0	120
964.1224	24	32,0	28,0	40,0	22,0	115
964.1225	25	34,0	29,0	42,0	27,0	145
964.1226	26	36,0	30,0	42,0	27,0	165
964.1227	27	36,0	31,0	43,0	26,0	155

	mm	D1 mm	D2 mm	L mm	T mm	g
964.1228	28	38,0	34,0	42,0	27,0	185
964.1229	29	40,0	34,0	45,0	27,0	225
964.1230	30	40,0	34,0	45,0	28,0	210
964.1231	31	42,0	36,0	44,0	27,0	230
964.1232	32	42,0	36,0	44,0	27,0	230

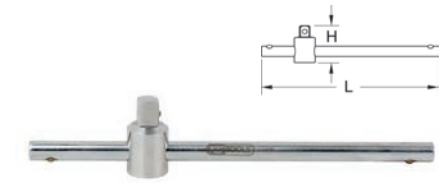
STAINLESS STEEL uni joint

- For manual operation
- Suitable for use at extremely low temperatures
- Extreme resistance to intergranular corrosion and oxidation
- Extremely long service life
- Autoclavable (heating of the tools to over 100°C to kill germs)
- Rust-proof and acid resistant
- Stainless steel

	□	■	L mm	g
964.1240	1/2	1/2"	85,0	295

STAINLESS STEEL Sliding T-bar

- For manual operation
- Suitable for use at extremely low temperatures
- Extreme resistance to intergranular corrosion and oxidation
- Extremely long service life
- Autoclavable (heating of the tools to over 100°C to kill germs)
- Rust-proof and acid resistant
- Stainless steel



	H mm	L mm	g
964.1241	47,0	400,0	310

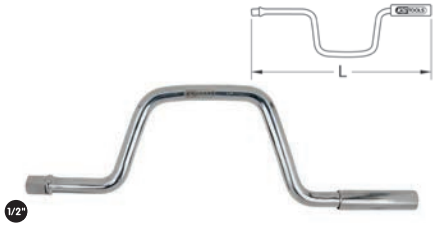
STAINLESS STEEL extension

- For manual operation
- Suitable for use at extremely low temperatures
- Extreme resistance to intergranular corrosion and oxidation
- Extremely long service life
- Autoclavable (heating of the tools to over 100°C to kill germs)
- Rust-proof and acid resistant
- Stainless steel

	L mm	g
964.1244	100,0	240
964.1245	200,0	355
964.1246	250,0	460

STAINLESS STEEL crank

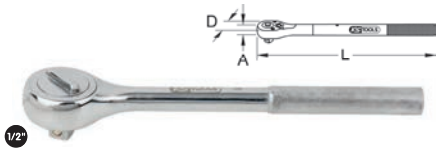
- Suitable for use at extremely low temperatures
- Extreme resistance to intergranular corrosion and oxidation
- Extremely long service life
- Autoclavable (heating of the tools to over 100°C to kill germs)
- Rust-proof and acid resistant
- Stainless steel



	L mm	g
964.1247	335,0	565

STAINLESS STEEL Reversible ratchet

- Reversible
- With ejection mechanism on the ratchet head
- Suitable for use at extremely low temperatures
- Extreme resistance to intergranular corrosion and oxidation
- Extremely long service life
- Autoclavable (heating of the tools to over 100°C to kill germs)
- Rust-proof and acid resistant
- Stainless steel



	A mm	D mm	L mm	g
964.1248	23,0	47,0	235,0	605

3/4" STAINLESS STEEL SOCKETS

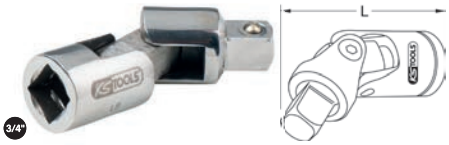
STAINLESS STEEL hex socket

- 6 point
- FlankTraction profile
- For manual operation
- Suitable for use at extremely low temperatures
- Extreme resistance to intergranular corrosion and oxidation
- Extremely long service life
- Autoclavable (heating of the tools to over 100°C to kill germs)
- Rust-proof and acid resistant
- Stainless steel

	mm	D1 mm	D2 mm	L mm	T mm	kg
964.3417	17	27,0	35,0	50,0	33,0	0,25
964.3419	19	30,0	35,0	50,0	33,0	0,25
964.3422	22	33,0	36,0	55,0	25,0	0,27
964.3424	24	36,0	36,0	55,0	25,5	0,31
964.3427	27	38,0	38,0	55,0	33,0	0,31
964.3430	30	43,5	38,0	60,0	36,0	0,41
964.3432	32	45,0	38,0	60,0	34,0	0,47
964.3434	34	47,0	38,0	60,0	34,0	0,48
964.3436	36	52,0	40,0	60,0	34,0	0,51
964.3441	41	58,0	43,0	65,0	36,0	0,66
964.3446	46	64,0	46,0	65,0	38,0	0,77
964.3450	50	68,0	47,0	70,0	42,0	0,91
964.3455	55	75,0	54,0	73,0	43,0	1,10
964.3460	60	81,0	55,0	80,0	46,0	1,30
964.3465	65	87,0	55,0	85,0	46,0	1,55

STAINLESS STEEL uni joint

- For manual operation
- Suitable for use at extremely low temperatures
- Extreme resistance to intergranular corrosion and oxidation
- Extremely long service life
- Autoclavable (heating of the tools to over 100°C to kill germs)
- Rust-proof and acid resistant
- Stainless steel



	L mm	g
964.3470	110,0	2500

STAINLESS STEEL Sliding T-bar

- For manual operation
- Suitable for use at extremely low temperatures
- Extreme resistance to intergranular corrosion and oxidation
- Extremely long service life
- Autoclavable (heating of the tools to over 100°C to kill germs)
- Rust-proof and acid resistant
- Stainless steel

	H mm	L mm	kg
964.3471	55,0	400,0	1,21

STAINLESS STEEL extension

- For manual operation
- Suitable for use at extremely low temperatures
- Extreme resistance to intergranular corrosion and oxidation
- Extremely long service life
- Autoclavable (heating of the tools to over 100°C to kill germs)
- Rust-proof and acid resistant
- Stainless steel

	L mm	kg
964.3472	100,0	0,44
964.3473	200,0	0,86
964.3474	250,0	1,05

STAINLESS STEEL crank

- Suitable for use at extremely low temperatures
- Extreme resistance to intergranular corrosion and oxidation
- Extremely long service life
- Autoclavable (heating of the tools to over 100°C to kill germs)
- Rust-proof and acid resistant
- Stainless steel

	L mm	kg
964.3475	390,0	3,12

1" STAINLESS STEEL SOCKETS

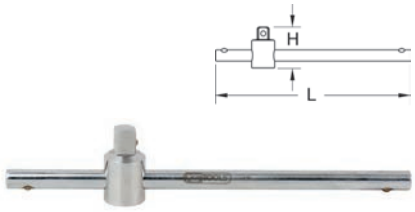
STAINLESS STEEL uni joint

- For manual operation
- Suitable for use at extremely low temperatures
- Extreme resistance to intergranular corrosion and oxidation
- Extremely long service life
- Autoclavable (heating of the tools to over 100°C to kill germs)
- Rust-proof and acid resistant
- Stainless steel

	L mm	g	
964.2303	132,0	1000	

STAINLESS STEEL Sliding T-bar

- For manual operation
- Suitable for use at extremely low temperatures
- Extreme resistance to intergranular corrosion and oxidation
- Extremely long service life
- Autoclavable (heating of the tools to over 100°C to kill germs)
- Rust-proof and acid resistant
- Stainless steel



	H mm	L mm	kg	
964.2403	62,0	400,0	1,60	

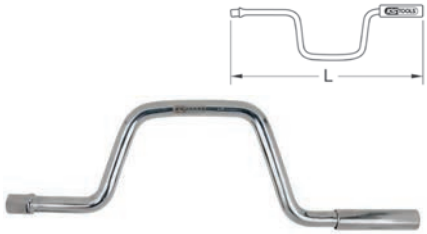
STAINLESS STEEL extension

- For manual operation
- Suitable for use at extremely low temperatures
- Extreme resistance to intergranular corrosion and oxidation
- Extremely long service life
- Autoclavable (heating of the tools to over 100°C to kill germs)
- Rust-proof and acid resistant
- Stainless steel

	L mm	kg	
964.2507	250,0	1,91	

STAINLESS STEEL crank

- Suitable for use at extremely low temperatures
- Extreme resistance to intergranular corrosion and oxidation
- Extremely long service life
- Autoclavable (heating of the tools to over 100°C to kill germs)
- Rust-proof and acid resistant
- Stainless steel



	L mm	kg	
964.2703	390,0	4,68	

STAINLESS STEEL SCREWDRIVER

STAINLESS STEEL Slotted screwdriver

- Two component handle
- Optimal power transmission
- Hardened blade
- Suitable for use at extremely low temperatures
- Extreme resistance to intergranular corrosion and oxidation
- Extremely long service life
- Autoclavable (heating of the tools to over 100°C to kill germs)
- Rust-proof and acid resistant
- Stainless steel

	D mm	L1 mm	L2 mm	L3 mm	g	
153.1002	3,0	155,0	75,0	80,0	40	
153.1003	4,0	155,0	75,0	80,0	40	
153.1004	5,0	205,0	100,0	105,0	50	
153.1005	6,0	205,0	100,0	105,0	50	
153.1008	8,0	265,0	150,0	115,0	130	

STAINLESS STEEL PHILLIPS® screwdriver

- Two component handle
- Optimal power transmission
- Hardened blade
- Suitable for use at extremely low temperatures
- Extreme resistance to intergranular corrosion and oxidation
- Extremely long service life
- Autoclavable (heating of the tools to over 100°C to kill germs)
- Rust-proof and acid resistant
- Stainless steel

		L1 mm	L2 mm	L3 mm	g	
153.1020	PH 1	180,0	75,0	105,0	40	
153.1021	PH 2	205,0	100,0	105,0	70	
153.1022	PH 3	165,0	150,0	115,0	130	

STAINLESS STEEL POZIDRIV® screwdriver

- Two component handle
- Optimal power transmission
- Hardened blade
- Suitable for use at extremely low temperatures
- Extreme resistance to intergranular corrosion and oxidation
- Extremely long service life
- Autoclavable (heating of the tools to over 100°C to kill germs)
- Rust-proof and acid resistant
- Stainless steel

		L1 mm	L2 mm	L3 mm	g	
153.1040	PZ 1	180,0	75,0	105,0	40	
153.1041	PZ 2	205,0	100,0	105,0	70	
153.1042	PZ 3	165,0	115,0	115,0	130	

STAINLESS STEEL bit screwdriver

- Two component handle
- Optimal power transmission
- Suitable for use at extremely low temperatures
- Extreme resistance to intergranular corrosion and oxidation
- Extremely long service life
- Autoclavable (heating of the tools to over 100°C to kill germs)
- Rust-proof and acid resistant
- Stainless steel

	○	L1 mm	L2 mm	L3 mm	g	
153.1050	1/4"	206,0	100,0	106,0	106	

STAINLESS STEEL Screwdriver set

- Two component handle
- Optimal power transmission
- Hardened blade
- Suitable for use at extremely low temperatures
- Extreme resistance to intergranular corrosion and oxidation
- Extremely long service life
- Autoclavable (heating of the tools to over 100°C to kill germs)
- Rust-proof and acid resistant
- Stainless steel

			g	
153.2000	8 pcs	STAINLESS STEEL Screwdriver set	800	
4 x		3 - 5 - 6 - 8 mm		
2 x		PH1 - PH2		
2 x		PZ1 - PZ2		

STAINLESS STEEL Combination tool set

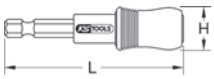
- Can be used by hand or with an electric screwdriver
- Suitable for use at extremely low temperatures
- Extreme resistance to intergranular corrosion and oxidation
- Extremely long service life
- Autoclavable (heating of the tools to over 100°C to kill germs)
- Rust-proof and acid resistant
- Stainless steel
- In durable metal case

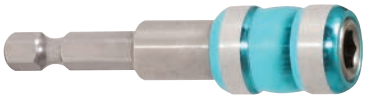
			kg
910.2460	48 pcs	STAINLESS STEEL Combination tool set	2,83
2 x		3x75 mm, 6x100 mm	
2 x		PH1x75 mm, PH2x100 mm	
2 x		PZ1x75 mm, PZ2x100 mm	
1 x		1/4"x100 mm	
1 x		1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm	
1 x		910.2455	

1/4" STAINLESS STEEL BITS

STAINLESS STEEL quick release bit holder

- Quick change function and locking device
- For 1/4" Bits with external hexagon drive to DIN 3126 / ISO 1173 - C 6,3
- Can be used by hand, electric screwdriver and drills
- Ideally suited for fittings in trade and industry
- Suitable for use at extremely low temperatures
- Extreme resistance to intergranular corrosion and oxidation
- Extremely long service life
- Autoclavable (heating of the tools to over 100°C to kill germs)
- Rust-proof and acid resistant
- Stainless steel



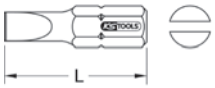


1/4"

	⬢	○	H mm	L mm	g
910.1114	1/4"	1/4"	16,0	65,0	50

STAINLESS STEEL bit for slotted screws

- Slotted
- With external hexagon drive to DIN 3126 / ISO 1173 - C 6,3
- Can be used by hand or with an electric screwdriver
- Ideally suited for external working
- Suitable for use at extremely low temperatures
- Extreme resistance to intergranular corrosion and oxidation
- Extremely long service life
- Autoclavable (heating of the tools to over 100°C to kill germs)
- Rust-proof and acid resistant
- Stainless steel

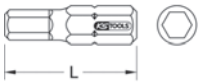


1/4"

	⬢ mm	L mm	Content	g
910.2234	3,0	25,0	1	4
910.2233	3,0	25,0	5	30
910.2238	5,5	25,0	1	4
910.2237	5,5	25,0	5	30
910.2244	6,5	25,0	1	4
910.2243	6,5	25,0	5	30

STAINLESS STEEL bit for hexagon screws

- Hexagon socket
- With external hexagon drive to DIN 3126 / ISO 1173 - C 6,3
- Can be used by hand or with an electric screwdriver
- Ideally suited for external working
- Suitable for use at extremely low temperatures
- Extreme resistance to intergranular corrosion and oxidation
- Extremely long service life
- Autoclavable (heating of the tools to over 100°C to kill germs)
- Rust-proof and acid resistant
- Stainless steel

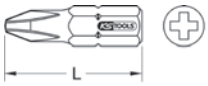


1/4"

	⬢ mm	L mm	Content	g
910.2259	4,0	25,0	1	4
910.2258	4,0	25,0	5	30
910.2262	5,0	25,0	1	5
910.2261	5,0	25,0	5	30
910.2265	6,0	25,0	1	5
910.2264	6,0	25,0	5	30

STAINLESS STEEL bit for phillips screws PH

- PH
- With external hexagon drive to DIN 3126 / ISO 1173 - C 6,3
- Can be used by hand or with an electric screwdriver
- Ideally suited for external working
- Suitable for use at extremely low temperatures
- Extreme resistance to intergranular corrosion and oxidation
- Extremely long service life
- Autoclavable (heating of the tools to over 100°C to kill germs)
- Rust-proof and acid resistant
- Stainless steel

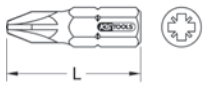


1/4"

		L mm	Content	g
910.2202	PH1	25,0	1	4
910.2201	PH1	25,0	5	30
910.2205	PH2	25,0	1	4
910.2204	PH2	25,0	5	30
910.2208	PH3	25,0	1	4
910.2207	PH3	25,0	5	30

STAINLESS STEEL bit for pozidriv screws PZ

- PZ
- With external hexagon drive to DIN 3126 / ISO 1173 - C 6,3
- Can be used by hand or with an electric screwdriver
- Ideally suited for external working
- Suitable for use at extremely low temperatures
- Extreme resistance to intergranular corrosion and oxidation
- Extremely long service life
- Autoclavable (heating of the tools to over 100°C to kill germs)
- Rust-proof and acid resistant
- Stainless steel

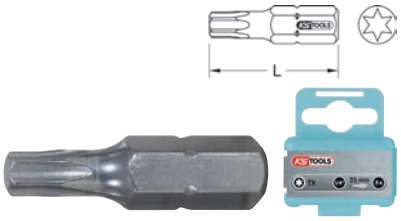


1/4"

		L mm	Content	g
910.2220	PZ1	25,0	1	4
910.2219	PZ1	25,0	5	30
910.2223	PZ2	25,0	1	4
910.2222	PZ2	25,0	5	30
910.2226	PZ3	25,0	1	4
910.2225	PZ3	25,0	5	30

STAINLESS STEEL bit for Torx screws

- Torx
- With external hexagon drive to DIN 3126 / ISO 1173 - C 6,3
- Can be used by hand or with an electric screwdriver
- Ideally suited for external working
- Suitable for use at extremely low temperatures
- Extreme resistance to intergranular corrosion and oxidation
- Extremely long service life
- Autoclavable (heating of the tools to over 100°C to kill germs)
- Rust-proof and acid resistant
- Stainless steel

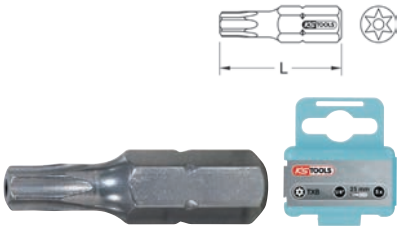


1/4"

		L mm	Content	g
910.2313	T10	25,0	1	5
910.2312	T10	25,0	5	30
910.2316	T15	25,0	1	5
910.2315	T15	25,0	5	30
910.2319	T20	25,0	1	5
910.2318	T20	25,0	5	30
910.2322	T25	25,0	1	5
910.2321	T25	25,0	5	30
910.2328	T27	25,0	1	4
910.2327	T27	25,0	5	30
910.2331	T30	25,0	1	4
910.2330	T30	25,0	5	30
910.2336	T40	25,0	1	4
910.2335	T40	25,0	5	30

STAINLESS STEEL bit for Torx tamperproof screws

- For tamperproof Torx
- With external hexagon drive to DIN 3126 / ISO 1173 - C 6,3
- Can be used by hand or with an electric screwdriver
- Ideally suited for external working
- Suitable for use at extremely low temperatures
- Extreme resistance to intergranular corrosion and oxidation
- Extremely long service life
- Autoclavable (heating of the tools to over 100°C to kill germs)
- Rust-proof and acid resistant
- Stainless steel



1/4"

		L mm	Content	g
910.2343	TB10	25,0	1	6
910.2342	TB10	25,0	5	30
910.2346	TB15	25,0	1	6
910.2345	TB15	25,0	5	30
910.2349	TB20	25,0	1	6
910.2348	TB20	25,0	5	30
910.2352	TB25	25,0	1	6
910.2351	TB25	25,0	5	30
910.2358	TB27	25,0	1	4
910.2357	TB27	25,0	5	30
910.2361	TB30	25,0	1	4
910.2360	TB30	25,0	5	30
910.2366	TB40	25,0	1	4
910.2365	TB40	25,0	5	30

STAINLESS STEEL Bits set

- Can be used by hand or with an electric screwdriver
- Suitable for use at extremely low temperatures
- Extreme resistance to intergranular corrosion and oxidation
- Extremely long service life
- Autoclavable (heating of the tools to over 100°C to kill germs)
- Rust-proof and acid resistant
- Stainless steel
- In durable plastic case

			g
910.2455	32 pcs	STAINLESS STEEL Bits set	296
1 x		1/4"	
1 x		1/4"	
4 x		3 - 4 - 5,5 - 6,5 mm	
4 x		PH1 - 2 x PH2 - PH3	
4 x		PZ1 - 2 x PZ2 - PZ3	
4 x		3 - 4 - 5 - 6 mm	
7 x		T10 - T15 - T20 - T25 - T27 - T30 T40	
7 x		TB10 - TB15 - TB20 - TB25 - TB27 TB30 - TB40	

STAINLESS STEEL bit set

- With external hexagon drive to DIN 3126 / ISO 1173 - C 6,3
- Can be used by hand or with an electric screwdriver
- Ideally suited for external working
- Precise arrangement of the popular 1/4" Bits
- Practical belt holder
- Suitable for use at extremely low temperatures
- Extreme resistance to intergranular corrosion and oxidation
- Extremely long service life
- Autoclavable (heating of the tools to over 100°C to kill germs)
- Rust-proof and acid resistant
- Stainless steel
- In durable two component storage case

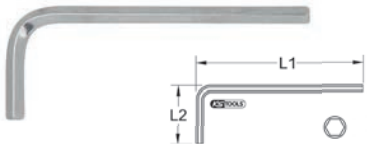
1/4"

			g
910.2055	18 pcs	STAINLESS STEEL bit set	190
1 x		1/4"	
2 x		5,5 - 6,5 mm	
3 x		4 - 5 - 6 mm	
3 x		PH1 - PH2 - PH3	
3 x		PZ1 - PZ2 - PZ3	
6 x		T10 - T15 - T20 - T25 - T27 - T30	

STAINLESS STEEL KEY WRENCHES

STAINLESS STEEL Mini hex key

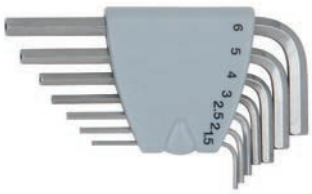
- Short execution
- In accordance to DIN ISO 2936
- Continuous hardened
- Suitable for use at extremely low temperatures
- Extreme resistance to intergranular corrosion and oxidation
- Extremely long service life
- Autoclavable (heating of the tools to over 100°C to kill germs)
- Rust-proof and acid resistant
- Stainless steel



	mm	L1 mm	L2 mm	g
964.03015	1,5	45,0	14,0	1
964.0302	2,0	50,0	16,0	2
964.03025	2,5	56,0	18,0	3
964.0303	3,0	63,0	20,0	5
964.0304	4,0	70,0	25,0	10
964.0305	5,0	80,0	28,0	18
964.0306	6,0	90,0	32,0	30
964.0308	8,0	100,0	36,0	60
964.0310	10,0	112,0	40,0	105

STAINLESS STEEL Mini hex key set, short

- Short execution
- In accordance to DIN ISO 2936
- Continuous hardened
- Handle with double function (holder / T-handle)
- Suitable for use at extremely low temperatures
- Extreme resistance to intergranular corrosion and oxidation
- Extremely long service life
- Autoclavable (heating of the tools to over 100°C to kill germs)
- Rust-proof and acid resistant
- In durable folding holder
- Stainless steel



			g
964.0315	7 pcs	1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 mm	98

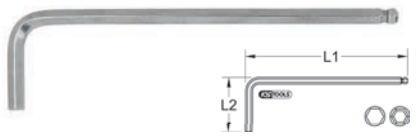
STAINLESS STEEL Mini hex key set, short

- Short execution
- In accordance to DIN ISO 2936
- Continuous hardened
- Handle with double function (holder / T-handle)
- Suitable for use at extremely low temperatures
- Extreme resistance to intergranular corrosion and oxidation
- Extremely long service life
- Autoclavable (heating of the tools to over 100°C to kill germs)
- Rust-proof and acid resistant
- In durable folding holder
- Stainless steel

			g
964.0320	9 pcs	1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm	282

STAINLESS STEEL Hex key, ball end, long

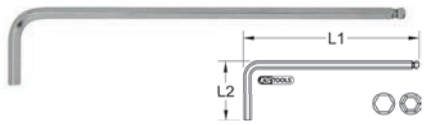
- Long execution
- In accordance to DIN ISO 2936
- With ball head on the long end
- Ideal for difficult to access screws
- Continuous hardened
- Suitable for use at extremely low temperatures
- Extreme resistance to intergranular corrosion and oxidation
- Extremely long service life
- Autoclavable (heating of the tools to over 100°C to kill germs)
- Rust-proof and acid resistant
- Stainless steel



	mm	L1 mm	L2 mm	g	
964.04015	1,5	62,0	14,0	1	
964.0402	2,0	75,0	16,0	2	
964.04025	2,5	85,0	18,0	4	
964.0403	3,0	90,0	20,0	7	
964.0404	4,0	100,0	25,0	14	
964.0405	5,0	115,0	28,0	25	
964.0406	6,0	135,0	32,0	41	
964.0408	8,0	150,0	36,0	84	
964.0410	10,0	170,0	40,0	145	

STAINLESS STEEL Hex key, ball end, extra long

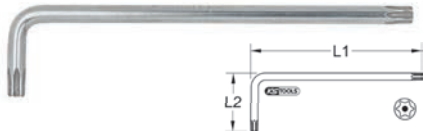
- Extra long execution
- In accordance to DIN ISO 2936
- With ball head on the long end
- Ideal for difficult to access screws
- Continuous hardened
- Suitable for use at extremely low temperatures
- Extreme resistance to intergranular corrosion and oxidation
- Extremely long service life
- Autoclavable (heating of the tools to over 100°C to kill germs)
- Rust-proof and acid resistant
- Stainless steel



	mm	L1 mm	L2 mm	g	
964.05015	1,5	90,0	14,0	2	
964.0502	2,0	100,0	16,0	3	
964.05025	2,5	112,0	18,0	5	
964.0503	3,0	126,0	20,0	8	
964.0504	4,0	140,0	25,0	18	
964.0505	5,0	160,0	28,0	31	
964.0506	6,0	180,0	32,0	51	
964.0508	8,0	200,0	36,0	104	
964.0510	10,0	224,0	40,0	182	

STAINLESS STEEL Torx tamperproof key wrench, long

- Long execution
- In accordance to DIN ISO 2936
- Bore hole at the short and long end
- Continuous hardened
- Suitable for use at extremely low temperatures
- Extreme resistance to intergranular corrosion and oxidation
- Extremely long service life
- Autoclavable (heating of the tools to over 100°C to kill germs)
- Rust-proof and acid resistant
- Stainless steel



	mm	L1 mm	L2 mm	g	
964.0601	TB10	86,0	17,0	6	
964.0602	TB15	90,0	18,0	9	
964.0603	TB20	95,0	19,0	12	
964.0604	TB25	100,0	20,0	16	
964.0605	TB27	105,0	21,0	24	
964.0606	TB30	114,0	24,0	31	
964.0607	TB40	124,0	26,0	46	
964.0608	TB45	133,0	29,0	64	
964.0609	TB50	152,0	32,0	91	

STAINLESS STEEL Hex key set, ball end, long

- Long execution
- In accordance to DIN ISO 2936
- With ball head on the long end
- Ideal for difficult to access screws
- Handle with double function (holder / T-handle)
- Continuous hardened
- Suitable for use at extremely low temperatures
- Extreme resistance to intergranular corrosion and oxidation
- Extremely long service life
- Autoclavable (heating of the tools to over 100°C to kill germs)
- Rust-proof and acid resistant
- In durable folding holder
- Stainless steel

			g	
964.0415	7 pcs	1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 mm	118	

STAINLESS STEEL Hex key set, ball end, extra long

- Extra long execution
- In accordance to DIN ISO 2936
- With ball head on the long end
- Ideal for difficult to access screws
- Handle with double function (holder / T-handle)
- Continuous hardened
- Suitable for use at extremely low temperatures
- Extreme resistance to intergranular corrosion and oxidation
- Extremely long service life
- Autoclavable (heating of the tools to over 100°C to kill germs)
- Rust-proof and acid resistant
- In durable folding holder
- Stainless steel

			g	
964.0515	7 pcs	1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 mm	157	

STAINLESS STEEL Torx tamperproof key wrench set, long

- Long execution
- In accordance to DIN ISO 2936
- Bore hole at the short and long end
- Handle with double function (holder / T-handle)
- Continuous hardened
- Suitable for use at extremely low temperatures
- Extreme resistance to intergranular corrosion and oxidation
- Extremely long service life
- Autoclavable (heating of the tools to over 100°C to kill germs)
- Rust-proof and acid resistant
- In durable folding holder
- Stainless steel

			g	
964.0615	7 pcs	TB10 - TB15 - TB20 - TB25 - TB27 - TB30 - TB40	162	

STAINLESS STEEL Hex key set, ball end, long

- Long execution
- In accordance to DIN ISO 2936
- With ball head on the long end
- Ideal for difficult to access screws
- Handle with double function (holder / T-handle)
- Continuous hardened
- Suitable for use at extremely low temperatures
- Extreme resistance to intergranular corrosion and oxidation
- Extremely long service life
- Autoclavable (heating of the tools to over 100°C to kill germs)
- Rust-proof and acid resistant
- In durable folding holder
- Stainless steel

			g	
964.0420	9 pcs	1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm	368	

STAINLESS STEEL Hex key set, ball end, extra long

- Extra long execution
- In accordance to DIN ISO 2936
- With ball head on the long end
- Ideal for difficult to access screws
- Handle with double function (holder / T-handle)
- Continuous hardened
- Suitable for use at extremely low temperatures
- Extreme resistance to intergranular corrosion and oxidation
- Extremely long service life
- Autoclavable (heating of the tools to over 100°C to kill germs)
- Rust-proof and acid resistant
- In durable folding holder
- Stainless steel

			g	
964.0520	9 pcs	1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm	458	

STAINLESS STEEL Torx tamperproof key wrench set, long

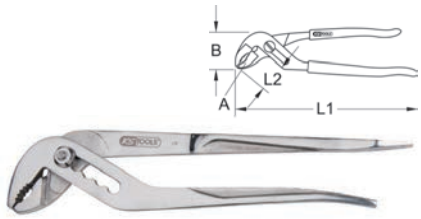
- Long execution
- In accordance to DIN ISO 2936
- Bore hole at the short and long end
- Handle with double function (holder / T-handle)
- Continuous hardened
- Suitable for use at extremely low temperatures
- Extreme resistance to intergranular corrosion and oxidation
- Extremely long service life
- Autoclavable (heating of the tools to over 100°C to kill germs)
- Rust-proof and acid resistant
- In durable folding holder
- Stainless steel

			g	
964.0620	9 pcs	TB10 - TB15 - TB20 - TB25 - TB27 - TB30 - TB40 - TB45 - TB50	334	

STAINLESS STEEL PLIERS

STAINLESS STEEL Waterpump pliers

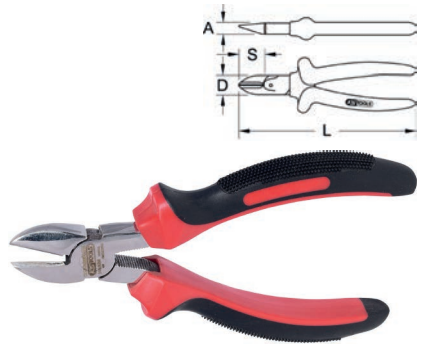
- Suitable for use at extremely low temperatures
- Extreme resistance to intergranular corrosion and oxidation
- Extremely long service life
- Autoclavable (heating of the tools to over 100°C to kill germs)
- Rust-proof and acid resistant
- Stainless steel



	A mm	B mm	L1 mm	L2 mm	g
964.1801	65,0	45,0	200,0	45,0	265
964.1802	65,0	51,0	250,0	47,0	345

STAINLESS STEEL Diagonal side cutter

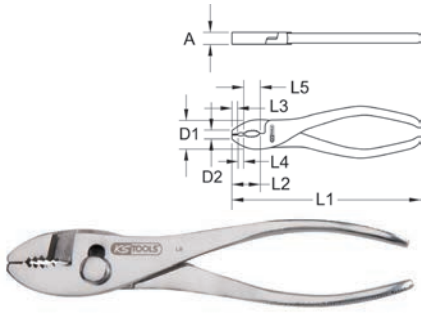
- In accordance to DIN ISO 5749
- Two component handle
- Long cutting edge
- For different wire types
- Suitable for use at extremely low temperatures
- Extreme resistance to intergranular corrosion and oxidation
- Extremely long service life
- Autoclavable (heating of the tools to over 100°C to kill germs)
- Rust-proof and acid resistant
- Stainless steel



	A mm	D mm	L mm	S mm	g
964.1601	11,0	22,0	150,0	22,0	208

STAINLESS STEEL Universal pliers

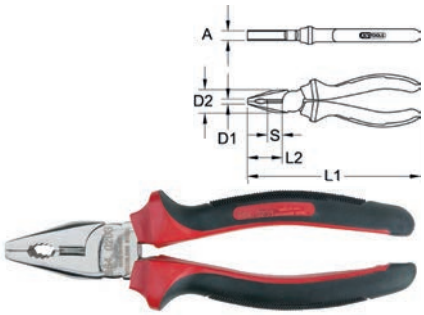
- Suitable for use at extremely low temperatures
- Extreme resistance to intergranular corrosion and oxidation
- Extremely long service life
- Autoclavable (heating of the tools to over 100°C to kill germs)
- Rust-proof and acid resistant
- Stainless steel



	A mm	D1 mm	D2 mm	L1 mm	L2 mm	L3 mm	L4 mm	L5 mm	g
964.1701	10,0	9,0	31,0	200,0	25,0	9,0	4,0	13,0	230

STAINLESS STEEL Combination pliers

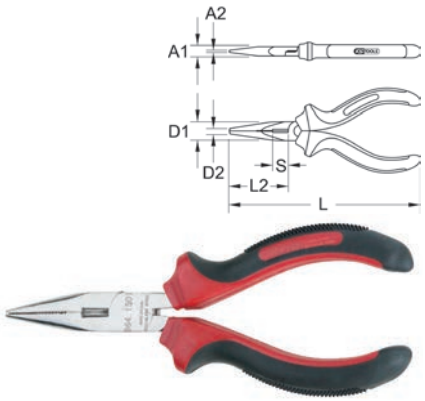
- In accordance to DIN ISO 5748
- Long cutting edge
- Suitable for wire
- Two component handle
- Suitable for use at extremely low temperatures
- Extreme resistance to intergranular corrosion and oxidation
- Extremely long service life
- Autoclavable (heating of the tools to over 100°C to kill germs)
- Rust-proof and acid resistant
- Stainless steel



	A mm	D1 mm	D2 mm	L1 mm	L2 mm	S mm	g
964.0203	11,0	7,0	29,0	200,0	40,0	13,0	330

STAINLESS STEEL Telephone pliers

- Long nosed jaws
- Serrated execution
- Two component handle
- With intergrated cutting edge
- Suitable for use at extremely low temperatures
- Extreme resistance to intergranular corrosion and oxidation
- Extremely long service life
- Autoclavable (heating of the tools to over 100°C to kill germs)
- Rust-proof and acid resistant
- Stainless steel



	A1 mm	A2 mm	D1 mm	D2 mm	L1 mm	L2 mm	S mm	g
964.1501	10,0	2,0	17,0	4,0	150,0	49,0	12,0	165

STAINLESS STEEL TWEEZERS

STAINLESS STEEL Tweezers

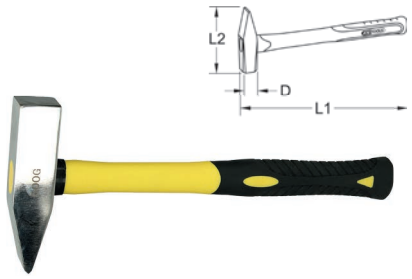
- Long, fine tips
- Smooth, curved gripping surfaces
- Suitable for use at extremely low temperatures
- Extreme resistance to intergranular corrosion and oxidation
- Extremely long service life
- Autoclavable (heating of the tools to over 100°C to kill germs)
- Rust-proof and acid resistant
- Stainless steel

	L mm	g
964.2901	150,0	35
964.2902	200,0	50

STAINLESS STEEL HAMMERS

STAINLESS STEEL Pin hammer

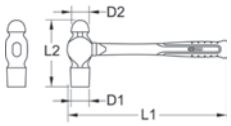
- With fibreglass handle
- Forged execution
- Impact area surfaces inductively hardened
- Head and edge areas polished ground
- Rounded edges
- Suitable for use at extremely low temperatures
- Extreme resistance to intergranular corrosion and oxidation
- Extremely long service life
- Autoclavable (heating of the tools to over 100°C to kill germs)
- Rust-proof and acid resistant
- Stainless steel



	g	D mm	L1 mm	L2 mm	kg
964.2041	500	28,0	320,0	120,0	0,65
964.2042	1000	33,0	340,0	120,0	1,15
964.2043	1500	42,0	360,0	160,0	1,75
964.2044	2000	48,0	400,0	165,0	2,46
964.2045	3000	54,0	900,0	187,0	4,00
964.2046	5000	65,0	900,0	215,0	6,00

STAINLESS STEEL Pin hammer

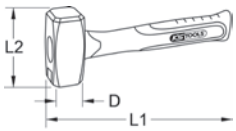
- With fibreglass handle
- Surfaces polished ground
- Rounded edges
- Suitable for use at extremely low temperatures
- Extreme resistance to intergranular corrosion and oxidation
- Extremely long service life
- Autoclavable (heating of the tools to over 100°C to kill germs)
- Rust-proof and acid resistant
- Stainless steel



	g	D1 mm	D2 mm	L1 mm	kg
964.2101	230	22,0	22,0	270,0	0,31
964.2102	340	23,0	23,0	285,0	0,43
964.2103	440	28,0	28,0	310,0	0,60
964.2104	680	32,0	32,0	345,0	0,95
964.2105	910	36,0	36,0	355,0	1,07
964.2106	1130	38,0	38,0	355,0	1,31

STAINLESS STEEL Club hammer

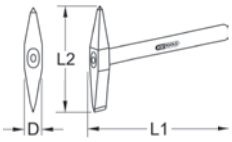
- In accordance to DIN 6475
- With fibreglass handle
- Forged execution
- Impact area surfaces inductively hardened
- Surfaces polished ground
- Rounded edges
- Suitable for use at extremely low temperatures
- Extreme resistance to intergranular corrosion and oxidation
- Extremely long service life
- Autoclavable (heating of the tools to over 100°C to kill germs)
- Rust-proof and acid resistant
- Stainless steel



	g	D mm	L1 mm	L2 mm	kg
964.2001	450	30,0	310,0	80,0	0,60
964.2002	900	38,0	400,0	91,0	1,20
964.2003	1350	44,0	400,0	105,0	1,65
964.2004	1800	48,0	400,0	115,0	2,10
964.2005	2250	49,0	400,0	119,0	2,55
964.2006	2700	55,0	700,0	130,0	3,40
964.2007	3600	55,0	900,0	141,0	4,50
964.2008	4500	58,0	900,0	154,0	5,40
964.2009	5400	67,0	900,0	170,0	6,30
964.2010	6300	70,0	900,0	184,0	7,20
964.2011	7200	72,0	900,0	191,0	8,10
964.2012	8100	80,0	900,0	200,0	9,00

STAINLESS STEEL welding hammer

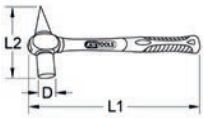
- With fibreglass handle
- Forged execution
- Impact area surfaces inductively hardened
- Pane polished ground
- Rounded edges
- Suitable for use at extremely low temperatures
- Extreme resistance to intergranular corrosion and oxidation
- Extremely long service life
- Autoclavable (heating of the tools to over 100°C to kill germs)
- Rust-proof and acid resistant
- Stainless steel



	g	D mm	L1 mm	L2 mm	kg
964.2021	300	27,0	340,0	210,0	450

STAINLESS STEEL test hammer

- With fibreglass handle
- Forged execution
- Impact area surfaces inductively hardened
- Rounded edges
- Suitable for use at extremely low temperatures
- Extreme resistance to intergranular corrosion and oxidation
- Extremely long service life
- Autoclavable (heating of the tools to over 100°C to kill germs)
- Rust-proof and acid resistant

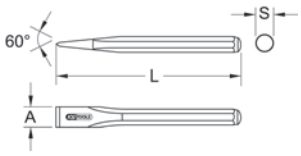


	g	D mm	L1 mm	L2 mm	kg
964.2031	250	18,0	320,0	112,0	350
964.2032	500	22,0	360,0	132,0	700

STAINLESS STEEL CHISELS

STAINLESS STEEL Flat chisel

- Flat oval form
- Blade can be resharpened
- Quenched and tempered
- Suitable for use at extremely low temperatures
- Extreme resistance to intergranular corrosion and oxidation
- Extremely long service life
- Autoclavable (heating of the tools to over 100°C to kill germs)
- Rust-proof and acid resistant
- Stainless steel



	L mm	A mm	S mm	g
964.3101	160,0	18,0	16,0	230
964.3102	160,0	20,0	18,0	290
964.3103	180,0	22,0	20,0	423
964.3104	250,0	24,0	22,0	725
964.3105	300,0	26,0	24,0	1255
964.3106	400,0	30,0	26,0	1560
964.3107	450,0	30,0	26,0	1755
964.3108	500,0	36,0	30,0	2705

STAINLESS STEEL PRY BAR

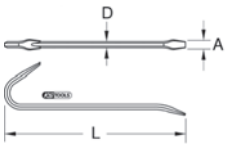
STAINLESS STEEL Crow bar

- Quenched and tempered
- Suitable for use at extremely low temperatures
- Extreme resistance to intergranular corrosion and oxidation
- Extremely long service life
- Autoclavable (heating of the tools to over 100°C to kill germs)
- Rust-proof and acid resistant
- Stainless steel

	D1 mm	D2 mm	L mm	S mm	kg
964.3201	16,0	18,0	300,0	16,0	0,48
964.3202	16,0	18,0	400,0	16,0	0,64
964.3203	18,0	20,0	500,0	18,0	1,00
964.3204	20,0	22,0	500,0	20,0	1,24
964.3205	20,0	22,0	600,0	20,0	1,49
964.3206	22,0	24,0	600,0	22,0	1,80
964.3207	22,0	24,0	700,0	22,0	2,09
964.3208	25,0	26,0	750,0	25,0	2,90
964.3209	25,0	26,0	800,0	25,0	3,09
964.3210	30,0	32,0	800,0	30,0	4,45
964.3211	25,0	26,0	1000,0	25,0	3,86
964.3212	28,0	30,0	1000,0	28,0	4,84
964.3213	30,0	32,0	1000,0	30,0	5,56
964.3214	25,0	26,0	1200,0	25,0	4,64
964.3215	28,0	30,0	1200,0	28,0	5,81
964.3216	30,0	32,0	1200,0	30,0	6,68
964.3217	28,0	30,0	1500,0	28,0	7,26
964.3218	30,0	32,0	1500,0	30,0	8,34

STAINLESS STEEL Crow bar

- Quenched and tempered
- Suitable for use at extremely low temperatures
- Extreme resistance to intergranular corrosion and oxidation
- Extremely long service life
- Autoclavable (heating of the tools to over 100°C to kill germs)
- Rust-proof and acid resistant
- Stainless steel

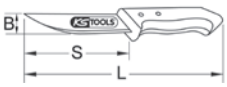


	D1 mm	D2 mm	L mm	S mm	kg
964.3301	18,0	24,0	400,0	16,0	0,75
964.3302	18,0	24,0	600,0	16,0	1,05
964.3303	20,0	28,0	800,0	18,0	2,01
964.3304	22,0	32,0	1000,0	20,0	2,87
964.3305	22,0	32,0	1200,0	20,0	3,45

STAINLESS STEEL CUTTING AND SCRAPING

STAINLESS STEEL Cutter

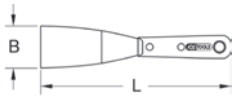
- Suitable for use at extremely low temperatures
- Extreme resistance to intergranular corrosion and oxidation
- Extremely long service life
- Autoclavable (heating of the tools to over 100°C to kill germs)
- Rust-proof and acid resistant
- Stainless steel



	B mm	S mm	L mm	g
964.3001	18,0	75,0	180,0	75
964.3002	30,0	140,0	250,0	95

Stainless steel scraper

- With wooden handle
- Ground
- Polished
- With hanging hole
- Suitable for use at extremely low temperatures
- Extreme resistance to intergranular corrosion and oxidation
- Extremely long service life
- Autoclavable (heating of the tools to over 100°C to kill germs)
- Rust-proof and acid resistant
- Stainless steel



	L mm	B mm	g
907.2261	225,0	25,0	70
907.2262	225,0	38,0	70
907.2263	225,0	50,0	70
907.2264	225,0	63,0	70
907.2265	225,0	75,0	80

STAINLESS STEEL Chisel scraper

- Ideal for removing of stickers, seal and glue residues
- Also suitable for the removal and chiselling of plates or welding spots
- Continuous stainless steel blade that can be re sharpened
- With reinforcement eyelet
- With hammer cap on the handle
- With ergonomic moulded two component handle
- Suitable for use at extremely low temperatures
- Extreme resistance to intergranular corrosion and oxidation
- Extremely long service life
- Autoclavable (heating of the tools to over 100°C to kill germs)
- Rust-proof and acid resistant
- Stainless steel

	B mm	D mm	L mm	g
907.2211	32,0	1,2	190,0	160
907.2213	25,0	1,2	165,0	100
907.2212	32,0	2,5	190,0	160
907.2214	25,0	2,5	165,0	110

STAINLESS STEEL Chisel scraper set

- Ideal for removing of stickers, seal and glue residues
- Also suitable for the removal and chiselling of plates or welding spots
- Continuous stainless steel blade that can be re sharpened
- With reinforcement eyelet
- With hammer cap on the handle
- With ergonomic moulded two component handle
- Suitable for use at extremely low temperatures
- Extreme resistance to intergranular corrosion and oxidation
- Extremely long service life
- Autoclavable (heating of the tools to over 100°C to kill germs)
- Rust-proof and acid resistant
- Stainless steel

			g
907.2210	4 pcs	32 x 1,2; 32 x 2,5; 25 x 1,2; 25 x 2,5 mm	580

EDELSTAHL OIL PUMPS

EDELSTAHL portable manual oil pump

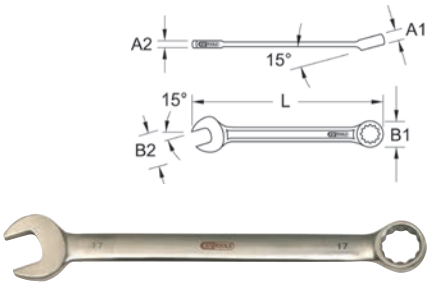
- Suitable for use at extremely low temperatures
- Extreme resistance to intergranular corrosion and oxidation
- Extremely long service life
- Autoclavable (heating of the tools to over 100°C to kill germs)
- Rust-proof and acid resistant
- Stainless steel

	Length mm	g
964.5805	1350,0	3380

TITAN*plus* SPANNERS

TITAN*plus* combination spanner, offset

- FlankTraction profile
- In accordance to DIN 3113
- Jaw 15° offset
- Ring head 15° offset
- 100% anti-magnetic
- Light (up to 42% lighter than steel)
- Extreme mechanical and thermal load capacity
- Rust-proof and acid resistant
- Extremely long service life
- Titanium



	mm		A1 mm	A2 mm	B1 mm	B2 mm	L mm	g	
965.0206	6		5,6	6,0	11,0	13,0	112,0	16	
965.0207	7		6,0	6,0	12,0	17,0	112,0	16	
965.0208	8		6,0	6,2	13,0	18,0	123,0	18	
965.0209	9		6,6	6,6	14,5	21,0	132,0	20	
965.0210	10		7,0	7,0	16,0	23,0	142,0	22	
965.0211	11		7,6	7,6	17,5	25,0	152,0	24	
965.0212	12		8,2	8,0	19,0	27,0	162,0	26	
965.0213	13		8,5	7,0	21,0	28,0	175,0	60	
965.0214	14		8,8	9,0	22,0	31,0	182,0	30	
965.0215	15		9,2	9,2	24,0	33,0	192,0	32	
965.0216	16		9,8	9,2	26,0	35,0	192,0	32	
965.0217	17		10,0	10,0	26,5	37,0	212,0	36	
965.0219	19		10,9	10,9	29,5	41,0	232,0	40	
965.0301		5/16"	6,2	6,2	13,0	19,0	123,0	18	
965.0302		3/8"	7,0	7,0	16,0	23,0	142,0	22	
965.0303		7/16"	7,6	7,6	17,5	25,0	152,0	24	
965.0304		1/2"	8,4	8,4	20,5	29,0	172,0	28	
965.0305		9/16"	8,8	9,0	22,0	31,0	182,0	30	
965.0306		5/8"	10,0	10,0	26,5	37,0	212,0	36	
965.0307		11/16"	10,0	10,0	26,0	37,0	212,0	36	
965.0308		3/4"	10,9	7,0	29,5	41,0	235,0	80	

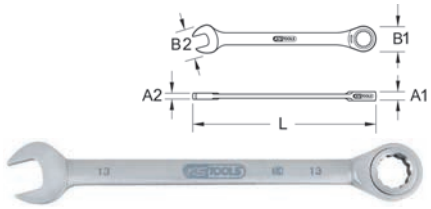
TITAN*plus* combination spanner set, offset

- FlankTraction profile
- In accordance to DIN 3113
- Jaw 15° offset
- Ring head 15° offset
- 100% anti-magnetic
- Light (up to 42% lighter than steel)
- Extreme mechanical and thermal load capacity
- Rust-proof and acid resistant
- Extremely long service life
- Titanium

			g
965.0248	8 pcs	8 - 9 - 10 - 11 - 12 - 14 - 17 - 19 mm	500

TITAN*plus* combination ratcheting spanner

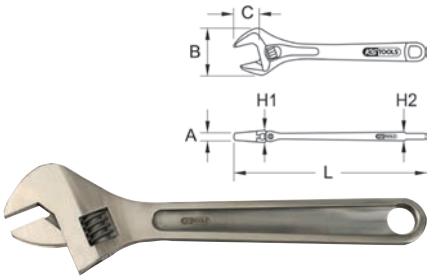
- FlankTraction profile
- In accordance to DIN 3113/ISO 3318
- Jaw 15° offset
- Straight form
- Exact gearing with 45-teeth
- 100% anti-magnetic
- Light (up to 42% lighter than steel)
- Extreme mechanical and thermal load capacity
- Rust-proof and acid resistant
- Extremely long service life
- Titanium



	mm	A1 mm	A2 mm	B1 mm	B2 mm	L mm	g	
965.1008	8	7,5	4,5	18,0	19,0	140,0	20	
965.1010	10	7,8	5,0	21,0	22,0	150,0	28	
965.1011	11	8,0	5,2	22,5	24,0	160,0	32	
965.1012	12	8,5	5,5	24,0	26,0	170,0	36	
965.1013	13	8,8	5,8	25,5	28,0	180,0	46	
965.1014	14	9,5	6,2	27,2	30,0	190,0	54	
965.1017	17	10,0	7,5	33,0	36,0	215,0	88	

TITAN*plus* adjustable spanner

- In accordance to DIN 3117
- Jaw 15° offset
- Swedish type design
- With hanging hole
- 100% anti-magnetic
- Light (up to 42% lighter than steel)
- Extreme mechanical and thermal load capacity
- Rust-proof and acid resistant
- Extremely long service life
- Titanium



	mm	A mm	B mm	C mm	H1 mm	H2 mm	L mm	g	
965.0008	28	7,6	56,0	25,0	13,0	7,0	200,0	138	
965.0010	30	9,0	68,5	28,0	16,0	9,0	250,0	270	

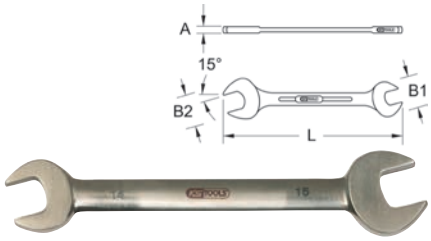
TITAN*plus* adjustable spanner set

- In accordance to DIN 3117
- Jaw 15° offset
- Swedish type design
- With hanging hole
- 100% anti-magnetic
- Light (up to 42% lighter than steel)
- Extreme mechanical and thermal load capacity
- Rust-proof and acid resistant
- Extremely long service life
- Titanium

		g
965.2006	2 pcs	8" - 10"	410

TITAN*plus* double open ended spanner

- In accordance to DIN 3110
- Jaw 15° offset
- 100% anti-magnetic
- Light (up to 42% lighter than steel)
- Extreme mechanical and thermal load capacity
- Rust-proof and acid resistant
- Extremely long service life
- Titanium



	mm		A mm	B1 mm	B2 mm	g	
965.0107	6x7		4,0	15,0	17,0	16	
965.0109	8x9		5,0	19,0	23,0	22	
965.0134	11x14		5,5	25,0	29,0	23	
965.0111	12x13		5,9	27,0	31,0	30	
965.0114	14x15		5,9	31,0	37,0	30	
965.0115	15x17		7,4	35,0	39,0	39	
965.0116	16x18		7,4	37,0	41,0	39	
965.0117	17x19		7,4	38,0	44,0	39	
965.0120		7/32" - 1/4"	4,0	15,0	17,0	16	
965.0121		1/4" - 5/16"	4,0	15,0	17,0	16	

TITAN*plus* double open ended spanner set

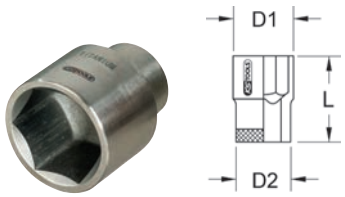
- In accordance to DIN 3110
- Jaw 15° offset
- 100% anti-magnetic
- Light (up to 42% lighter than steel)
- Extreme mechanical and thermal load capacity
- Rust-proof and acid resistant
- Extremely long service life
- Titanium

			g	
965.0148	8 pcs	6x7 - 8x9 - 10x12 - 11x14 - 13x15 - 15x17 - 16x18 - 17x19 mm	450	

TITAN*plus* SOCKETS

TITAN*plus* hexagonal socket

- 6 point
- In accordance to DIN 3124 / ISO 2725-1
- Internal square to DIN 3120 / ISO 1174 with ball reception
- 100% anti-magnetic
- Light (up to 42% lighter than steel)
- Extreme mechanical and thermal load capacity
- Rust-proof and acid resistant
- Extremely long service life
- Titanium



3/8"

	mm		D1 mm	D2 mm	L mm	g
965.3808	8		31,0	13,0	31,0	25
965.3809	9		31,0	14,0	31,0	25
965.3810	10		31,0	21,0	31,0	26
965.3811	11		31,0	21,0	31,0	26
965.3812	12		31,0	21,0	31,0	27
965.3813	13		31,0	21,0	31,0	27
965.3814	14		31,0	21,0	34,0	28
965.3815	15		34,0	22,0	34,0	32
965.3816	16		34,0	22,0	34,0	32
965.3817	17		34,0	24,0	34,0	38
965.3818	18		34,0	25,0	34,0	40
965.3819	19		34,0	26,0	34,0	45
965.3901		5/16"	31,0	21,0	31,0	26
965.3902		3/8"	31,0	21,0	31,0	27
965.3903		7/16"	31,0	21,0	31,0	26
965.3904		1/2"	31,0	21,0	31,0	27
965.3905		9/16"	34,0	22,0	31,0	28
965.3906		5/8"	34,0	22,0	34,0	32
965.3907		11/16"	34,0	24,0	34,0	46
965.3908		1.1/16"	42,0	25,0	40,0	87
965.3909		1.1/4"	42,0	25,0	40,0	101

TITAN*plus* hexagonal socket, long

- 6 point
- In accordance to DIN 3124 / ISO 2725-1
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Long execution
- 100% anti-magnetic
- Light (up to 42% lighter than steel)
- Extreme mechanical and thermal load capacity
- Rust-proof and acid resistant
- Extremely long service life
- Titanium

3/8"

	mm	D1 mm	D2 mm	L mm	T mm	g
965.3857	17	25,0	21,0	95,0	25,0	100

TITAN*plus* socket set

- 6 point
- In accordance to DIN 3124 / ISO 2725-1
- Internal square to DIN 3120 / ISO 1174 with ball reception
- 100% anti-magnetic
- Light (up to 42% lighter than steel)
- Extreme mechanical and thermal load capacity
- Rust-proof and acid resistant
- Extremely long service life
- Titanium

3/8"

			g
965.2001	9 pcs	5/16" - 3/8" - 7/16" - 1/2" - 9/16" - 5/8" - 11/16" - 1.1/16" - 1.1/4"	400

TITAN*plus* socket set

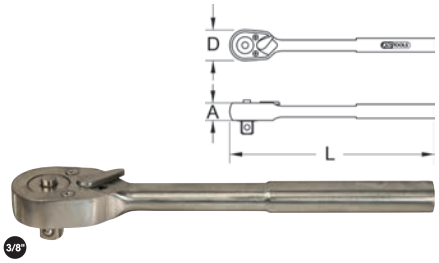
- 6 point
- In accordance to DIN 3124 / ISO 2725-1
- Internal square to DIN 3120 / ISO 1174 with ball reception
- 100% anti-magnetic
- Light (up to 42% lighter than steel)
- Extreme mechanical and thermal load capacity
- Rust-proof and acid resistant
- Extremely long service life
- Titanium

3/8"

			g
965.2002	13 pcs	TITAN*plus* socket set	500
12 x		8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 17 - 18 - 19 mm	
1 x		17 mm	

TITAN*plus* reversible ratchet

- In accordance to DIN 3122 / ISO 3315
- Square drive to DIN 3120 / ISO 1174 with ball lock
- Toothed with 30 teeth
- With ejection mechanism on the ratchet head
- With reversing lever
- 100% anti-magnetic
- Light (up to 42% lighter than steel)
- Extreme mechanical and thermal load capacity
- Rust-proof and acid resistant
- Extremely long service life
- Titanium

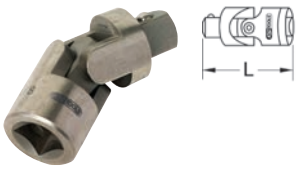


3/8"

	■	A mm	D mm	L mm	g
965.3800	3/8"	28,0	36,0	200,0	184

TITAN*plus* universal joint

- In accordance to DIN 3123 / ISO 3316
- Square drive to DIN 3120 / ISO 1174 with ball lock
- Internal square to DIN 3120 / ISO 1174 with ball reception
- 100% anti-magnetic
- Light (up to 42% lighter than steel)
- Extreme mechanical and thermal load capacity
- Rust-proof and acid resistant
- Extremely long service life
- Titanium



3/8"

	□	■	L mm	g
965.3804	3/8	3/8"	52,0	39

TITAN*plus* extension

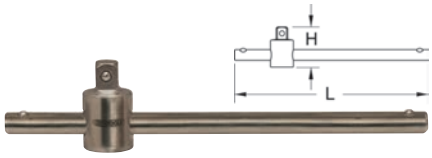
- Based on DIN 3122 / ISO 3316
- Square drive to DIN 3120 / ISO 1174 with ball lock
- Internal square to DIN 3120 / ISO 1174 with ball reception
- 100% anti-magnetic
- Light (up to 42% lighter than steel)
- Extreme mechanical and thermal load capacity
- Rust-proof and acid resistant
- Extremely long service life
- Titanium

3/8"

	■	L mm	g
965.3801	3/8"	100,0	70
965.3802	3/8"	200,0	138

TITAN*plus* sliding T-handle

- In accordance to DIN 3122 / ISO 3315
- Square drive to DIN 3120 / ISO 1174 with ball lock
- 100% anti-magnetic
- Light (up to 42% lighter than steel)
- Extreme mechanical and thermal load capacity
- Rust-proof and acid resistant
- Extremely long service life
- Titanium



3/8"

	■	H mm	L mm	g
965.3803	3/8"	34,0	180,0	90

TITAN*plus* box wrench set

- 100% anti-magnetic
- Light (up to 42% lighter than steel)
- Extreme mechanical and thermal load capacity
- Rust-proof and acid resistant
- Extremely long service life
- Titanium

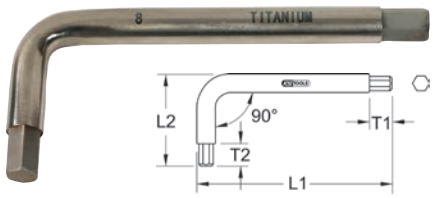
3/8"

			g
965.2010	5 pcs	TITAN*plus* box wrench set	500
1 x		3/8"	
2 x		17 mm - 9/16"	
1 x		17 mm	
1 x		100 mm	

TITAN*plus* HEXAGON KEY WRENCHES

TITAN*plus* key wrench for hexagon socket screws

- 6 point
- In accordance to DIN ISO 2936
- 100% anti-magnetic
- Light (up to 42% lighter than steel)
- Extreme mechanical and thermal load capacity
- Rust-proof and acid resistant
- Extremely long service life
- Titanium



	mm		L1 mm	L2 mm	T1 mm	T2 mm	g
965.0401	1,5		45,0	14,0	2,0	2,0	1
965.0402	2,0		50,0	16,0	2,0	2,0	2
965.04025	2,5		62,0	20,0	2,5	2,5	2
965.0403	3,0		63,0	20,0	4,0	4,0	5
965.0423	3,0		66,0	17,0	3,0	3,0	4
965.0404	4,0		70,0	25,0	5,0	5,0	8
965.0424	4,0		75,0	18,0	5,0	5,0	6
965.0405	5,0		80,0	28,0	7,0	7,0	13
965.0425	5,0		86,0	20,0	8,0	8,0	11
965.0406	6,0		90,0	32,0	8,0	8,0	20
965.0407	7,0		95,0	34,0	10,0	10,0	28
965.0408	8,0		100,0	36,0	12,0	12,0	44
965.0409	9,0		106,0	38,0	15,0	15,0	65
965.0410	10,0		112,0	40,0	15,0	15,0	72
965.0411	11,0		118,0	42,0	18,0	18,0	87
965.0412	12,0		125,0	45,0	20,0	20,0	110
965.0414	14,0		140,0	56,0	20,0	20,0	190
965.0501		1/16"	45,0	14,0	2,0	2,0	1
965.0502		5/64"	50,0	16,0	2,0	2,0	2
965.0503		3/32"	56,0	18,0	3,0	3,0	2
965.0504		7/64"	63,0	20,0	4,0	4,0	4
965.0505		1/8"	63,0	20,0	4,0	4,0	5
965.0506		9/64"	70,0	25,0	5,0	5,0	8
965.0507		5/32"	70,0	25,0	5,0	5,0	8
965.0508		3/16"	80,0	28,0	7,0	7,0	13
965.0509		7/32"	90,0	32,0	8,0	8,0	20
965.0510		1/4"	95,0	34,0	10,0	10,0	27
965.0511		5/16"	100,0	36,0	12,0	12,0	44
965.0512		3/8"	106,0	38,0	15,0	15,0	67
965.0513		7/16"	125,0	45,0	20,0	20,0	108
965.0514		1/2"	140,0	56,0	20,0	20,0	183

TITAN*plus* key wrench set for hexagon socket screws

- 6 point
- 100% anti-magnetic
- Light (up to 42% lighter than steel)
- Extreme mechanical and thermal load capacity
- Rust-proof and acid resistant
- Extremely long service life
- Titanium

			g
965.2004	17 pcs	1,5 - 2 - 2,5 - 3 - 3 - 4 - 4 - 5 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 14 mm	750

TITAN*plus* SCREWDRIVERS

TITAN*plus* screwdriver for slotted screws

- Slotted
- In accordance to DIN ISO 2380-2 / 2380-1 Form A
- Two component handle
- With hanging hole
- 100% anti-magnetic
- Light (up to 42% lighter than steel)
- Extreme mechanical and thermal load capacity
- Rust-proof and acid resistant
- Extremely long service life
- Titanium

	D mm	L1 mm	L2 mm	L3 mm	g
965.0910	3,2	151,0	75,0	75,5	22
965.0911	3,2	126,0	50,0	75,5	24
965.0912	3,2	176,0	100,0	75,5	26
965.0913	3,2	276,0	200,0	75,5	32
965.0914	4,8	193,0	100,0	93,0	47
965.0915	6,4	235,0	125,0	110,0	88
965.0916	7,9	268,0	150,0	118,0	114

TITAN*plus* screwdriver for Phillips screws

- PH
- Based on DIN 5265 / DIN ISO 8765-1
- Two component handle
- With hanging hole
- 100% anti-magnetic
- Light (up to 42% lighter than steel)
- Extreme mechanical and thermal load capacity
- Rust-proof and acid resistant
- Extremely long service life
- Titanium

		L1 mm	L2 mm	L3 mm	g
965.0900	PH 0	136,0	75,0	75,5	45
965.0901	PH 1	173,0	75,0	93,0	46
965.0902	PH 2	260,0	150,0	110,0	91
965.0903	PH 3	268,0	150,0	118,0	117
965.0904	PH 4	318,0	200,0	118,0	176

TITAN*plus* screwdriver set

- Two component handle
- With hanging hole
- 100% anti-magnetic
- Light (up to 42% lighter than steel)
- Extreme mechanical and thermal load capacity
- Rust-proof and acid resistant
- Extremely long service life
- Titanium

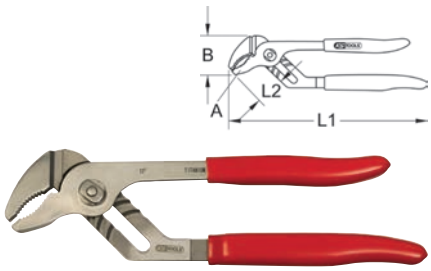
			kg
965.2005	10 pcs	TITAN*plus* screwdriver set	1,05

6 x		2,4 - 3,2 (125 mm) - 3,2 (175 mm) - 4,8 - 6,4 - 7,9 mm
4 x		PH0 - PH1 - PH2 - PH3

TITAN*plus* PLIERS

TITAN*plus* waterpump pliers

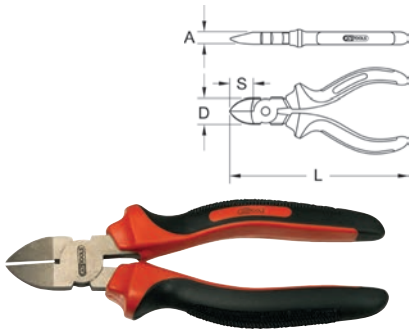
- In accordance to DIN ISO 8976
- 4-way adjustable
- Insulated handle
- With 4-step grooving
- 100% anti-magnetic
- Light (up to 42% lighter than steel)
- Extreme mechanical and thermal load capacity
- Rust-proof and acid resistant
- Extremely long service life
- Titanium



	A mm	B mm	L1 mm	L2 mm	g
965.0605	65,0	24,0	250,0	34,0	255

TITAN*plus* diagonal side cutter

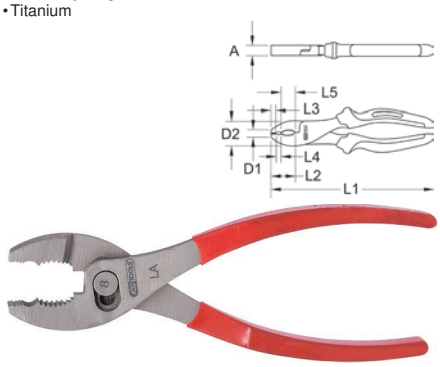
- In accordance to DIN ISO 5749
- Two component handle
- For different wire types
- 100% anti-magnetic
- Light (up to 42% lighter than steel)
- Extreme mechanical and thermal load capacity
- Rust-proof and acid resistant
- Extremely long service life
- Titanium



	A mm	D mm	L mm	S mm	g
965.0615	10,0	20,0	160,0	22,5	132

TITAN*plus* universal pliers

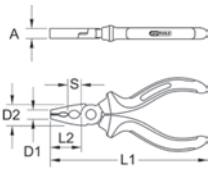
- Two component handle
- 100% anti-magnetic
- Light (up to 42% lighter than steel)
- Extreme mechanical and thermal load capacity
- Rust-proof and acid resistant
- Extremely long service life
- Titanium



	A mm	D1 mm	D2 mm	L1 mm	L2 mm	L3 mm	L4 mm	L5 mm	g
965.0625	11,0	7,0	32,0	200,0	30,0	7,0	6,0	16,0	173

TITAN*plus* combination pliers

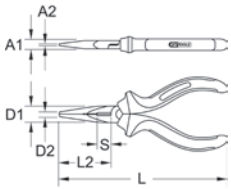
- In accordance to DIN ISO 5748
- Two component handle
- 100% anti-magnetic
- Light (up to 42% lighter than steel)
- Extreme mechanical and thermal load capacity
- Rust-proof and acid resistant
- Extremely long service life
- Titanium



	A mm	D1 mm	D2 mm	L1 mm	L2 mm	S mm	g
965.0620	11,0	6,0	25,0	160,0	31,0	10,0	138

TITAN*plus* telephone pliers

- In accordance to DIN ISO 5745
- Long nosed jaws
- Serrated execution
- Two component handle
- With intergrated cutting edge
- 100% anti-magnetic
- Light (up to 42% lighter than steel)
- Extreme mechanical and thermal load capacity
- Rust-proof and acid resistant
- Extremely long service life
- Titanium



	A1 mm	A2 mm	D1 mm	D2 mm	L1 mm	L2 mm	S mm	g
965.0610	10,0	4,0	20,0	4,0	170,0	65,0	14,0	139

TITAN*plus* pliers set

- Two component handle
- 100% anti-magnetic
- Light (up to 42% lighter than steel)
- Extreme mechanical and thermal load capacity
- Rust-proof and acid resistant
- Extremely long service life
- Titanium

			g
965.2011	4 pcs	TITAN*plus* pliers set	700
1 x		250 mm	
1 x		170 mm	
1 x		160 mm	
1 x		200 mm	

TITAN*plus* TWEEZERS

TITAN*plus* tweezers

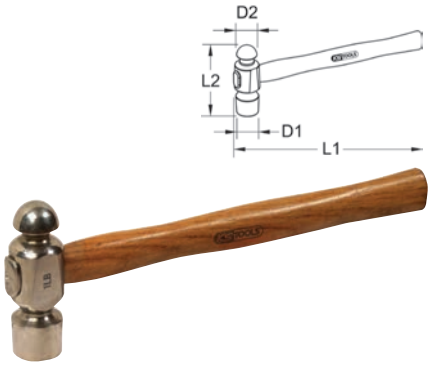
- Long, fine tips
- Smooth, curved gripping surfaces
- 100% anti-magnetic
- Light (up to 42% lighter than steel)
- Extreme mechanical and thermal load capacity
- Rust-proof and acid resistant
- Extremely long service life
- Titanium

	B mm	L mm	g
965.1301	12,0	150,0	25

TITAN*plus* HAMMER

TITAN*plus* fitters hammer

- With lacquered wooden handle
- Additional head security
- 100% anti-magnetic
- Light (up to 42% lighter than steel)
- Extreme mechanical and thermal load capacity
- Rust-proof and acid resistant
- Extremely long service life
- Titanium

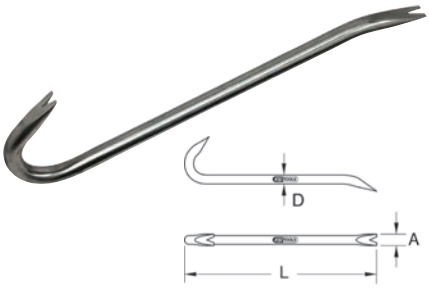


	D1 mm	D2 mm	L1 mm	L2 mm	g
965.1101	32,0	30,0	315,0	105,0	540

TITAN*plus* PRY BAR

TITAN*plus* pry bar

- 100% anti-magnetic
- Light (up to 42% lighter than steel)
- Extreme mechanical and thermal load capacity
- Rust-proof and acid resistant
- Extremely long service life
- Titanium

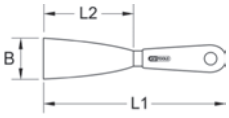


	D mm	L mm	A mm	g
965.2300	20,0	457,0	20,0	744

TITAN*plus* SCRAPER

TITAN*plus* spatula

- With wooden handle
- With hanging hole
- 100% anti-magnetic
- Light (up to 42% lighter than steel)
- Extreme mechanical and thermal load capacity
- Rust-proof and acid resistant
- Extremely long service life
- Titanium

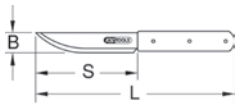


	L1 mm	L2 mm	B mm	g
965.9000	210,0	90,0	30,0	36

TITAN*plus* CUTTING TOOLS

TITAN*plus* universal knife

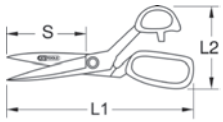
- Durable and fixed blade
- With plastic handle
- 100% anti-magnetic
- Light (up to 42% lighter than steel)
- Extreme mechanical and thermal load capacity
- Rust-proof and acid resistant
- Extremely long service life
- Titanium



	B mm	S mm	L mm	g
965.1102	25,0	130	250,0	75

TITAN*plus* universal shear

- 100% anti-magnetic
- Light (up to 42% lighter than steel)
- Extreme mechanical and thermal load capacity
- Rust-proof and acid resistant
- Extremely long service life
- Titanium



	L1 mm	L2 mm	S mm	g
965.1302	225,0	72,0	122,0	162

VDE AND GENERAL ELECTRICIAN'S TOOLS

KS TOOLS®

Innovation is our mission!

TORQUE WRENCHES WITH PROTECTIVE INSULATION

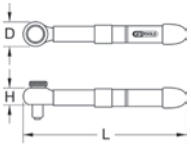
Fixed torque wrench with protective insulation

- Actuation accuracy: ±4 % tolerance of the set scale value
- Precise reading accuracy for a minimum 5.000 tightening cycles
- For controlled fastening in a clockwise direction
- Can untighten without any torque restraint thanks to the anticlockwise latch
- An audible and palpable signal when the desired torque value is achieved
- Without scale - with a fixed adjustable value
- Hexagon socket holder in accordance with DIN 3126 - E6,3
- Individually marked with serial number - unique product identification
- including calibration declaration of conformity according to DIN EN ISO 6789:2017(E) - traceable to national standards

	■	N·m	A mm	L mm	ϟ	g
117.3922	3/8"	5-35	78,0	210,0	1000V	420
117.1001	1/2"	5-35	78,0	250,0	1000V	420

Mini torque wrench with protective insulation and reversible ratchet head

- Insulated handle to IEC 60900
- For working enviroment of voltages AC 1000 V and DC 1500 V
- Release accuracy: ±4 % tolerance from the set scale value and better
- Precise reading accuracy for a minimum 5.000 tightening cycles
- For controlled fastening in a clockwise direction
- Can untighten without any torque restraint thanks to the anticlockwise latch
- An audible and palpable signal when the desired torque value is achieved
- Exact gearing 30 teeth ratchet mechanism
- Ergonomic designed handle provides secure transmission of the torque
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Individually marked with serial number - unique product identification
- including calibration declaration of conformity according to DIN EN ISO 6789:2017(E) - traceable to national standards



	■	N·m	D mm	H mm	L mm	ϟ	g
117.1400	1/4"	2-12	40,0	41,0	200,0	1000V	400
117.1402	1/4"	5-25	40,0	41,0	200,0	1000V	420
117.1184	3/8"	5-25	40,0	42,0	200,0	1000V	440
117.1185	1/2"	5-25	40,0	42,0	200,0	1000V	440

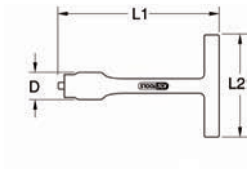
Torque wrench with protective insulation and reversible ratchet head

- Insulated handle to IEC 60900
- For working enviroment of voltages AC 1000 V and DC 1500 V
- Release accuracy: ±4 % tolerance from the set scale value and better
- Precise reading accuracy for a minimum 5.000 tightening cycles
- For controlled fastening in a clockwise direction
- Can untighten without any torque restraint thanks to the anticlockwise latch
- Scale in Nm divisions for precise adjustment
- Large vision panel for precise adjustment
- An audible and palpable signal when the desired torque value is achieved
- Exact gearing 30 teeth ratchet mechanism
- Torque setting is quick and easy using the locking knob in the handle end
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Individually marked with serial number - unique product identification
- including calibration declaration of conformity according to DIN EN ISO 6789:2017(E) - traceable to national standards

	■	N·m	H mm	L mm	ϟ	kg
117.3805	3/8"	2-27	51,0	280,0	1000V	0,92
117.3810	3/8"	5-50	51,0	370,0	1000V	1,07
117.1301	1/2"	2-27	61,0	280,0	1000V	0,93
117.1300	1/2"	5-50	61,0	370,0		1,10
117.1302	1/2"	20-100	61,0	460,0	1000V	1,20
117.1303	1/2"	40-220	61,0	530,0	1000V	1,30

Fixed T-handle torque limiter with protective insulation

- Insulated handle to IEC 60900
- For working enviroment of voltages AC 1000 V and DC 1500 V
- High accuracy
- For controlled fastening in a clockwise direction
- Clearly noticeable torque release signal through ratchet
- It is not possible to over tighten the set value
- Without scale - with a fixed adjustable value
- Can untighten without any torque restraint thanks to the anticlockwise latch
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock

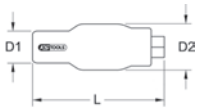


3/8"

	■	N·m	D mm	L mm	l mm	ϟ	g
117.3806	3/8"	12	36,5	270,0	165,0	1000V	540
117.3807	3/8"	18	36,5	270,0	165,0	1000V	540
117.3808	3/8"	25	36,5	270,0	165,0	1000V	540

Fixed torque limiter with protective insulation

- Insulated handle to IEC 60900
- For working enviroment of voltages AC 1000 V and DC 1500 V
- High accuracy
- For controlled fastening in a clockwise direction
- Clearly noticeable torque release signal through ratchet
- It is not possible to over tighten the set value
- Without scale - with a fixed adjustable value
- Can untighten without any torque restraint thanks to the anticlockwise latch
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock



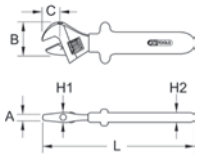
3/8"

	□	■	N·m	D1 mm	D2 mm	L mm	ϟ	g
117.3802	3/8"	3/8"	12	23,0	27,5	92,0	1000V	310
117.3803	3/8"	3/8"	18	23,0	27,5	92,0	1000V	310
117.3804	3/8"	3/8"	25	23,0	27,5	92,0	1000V	310

SPANNER WITH PROTECTIVE INSULATION

Sliding spanner with protective insulation

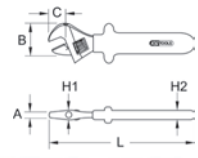
- In accordance to DIN 3117
- Insulated handle to IEC 60900
- Jaw 15° offset
- Swedish type design
- With mm scale
- Matt finish
- Chrome vanadium



	⬢ mm	A mm	B mm	C mm	H1 mm	H2 mm	L mm	ϟ	g
117.1250	24,0	12,0	55,0	30,0	8,0	14,0	200,0	1000V	310
117.1253	30,0	14,0	77,0	40,0	14,0	19,0	250,0	1000V	540
117.1254	34,0	17,5	78,0	48,0	17,5	18,0	300,0	1000V	830

Sliding spanner with protective insulation

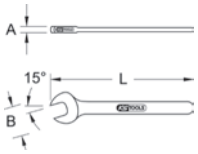
- In accordance to DIN 3117
- Insulated handle to IEC 60900
- Jaw 15° offset
- Swedish type design
- With mm scale
- Matt finish
- Burnished
- Chrome vanadium



	⬢ mm	A mm	B mm	C mm	H1 mm	H2 mm	L mm	ϟ	g
117.4270	27	13,0	57,5	20,0	13,0	18,5	210,0	1000V	329
117.4271	31	15,0	68,5	30,0	15,0	20,0	260,0	1000V	530
117.4272	34	17,5	79,0	36,0	17,5	23,0	315,0	1000V	800

open-end wrench with protective insulation

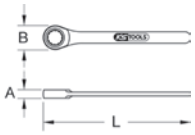
- In accordance to DIN 7446
- Insulated handle to IEC 60900
- Jaw 15° offset
- Chrome vanadium



	mm		A mm	B mm	L mm		g
117.1506	6		12,0	23,5	70,1		30
117.1507	7		12,0	25,0	77,0		30
117.1508	8		12,5	27,2	84,0		30
117.1509	9		12,5	29,2	90,0		40
117.1510	10		13,0	31,2	97,0		40
117.1511	11		13,4	33,3	104,0		50
117.1512	12		13,5	35,2	110,0		50
117.1513	13		13,9	37,4	117,0		70
117.1514	14		14,2	39,5	124,0		80
117.1515	15		14,4	41,2	130,0		90
117.1516	16		14,7	42,7	137,0		120
117.1517	17		14,9	44,5	144,0		120
117.1518	18		15,2	46,7	150,0		120
117.1519	19		15,4	48,7	157,0		150
117.1522	22		16,2	54,9	174,0		190
117.1524	24		16,7	58,4	190,0		300
117.1527	27		17,4	63,7	210,0		390
117.1530	30		18,1	69,8	230,0		510
117.1532	32		18,4	65,8	244,0		550
117.2208		5/16"	8,0	17,3	120,0	1000V	34
117.2209		3/8"	8,8	23,3	108,0	1000V	40
117.2251		7/16"	9,9	25,6	115,7	1000V	46
117.2252		1/2"	10,7	30,0	136,0	1000V	65
117.2253		9/16"	10,6	33,1	145,0	1000V	80
117.2254		5/8"	10,2	34,4	156,0	1000V	114
117.2255		11/16"	9,7	38,1	170,0	1000V	116
117.2256		3/4"	11,1	41,6	173,0	1000V	150
117.2257		13/16"	12,7	44,8	186,0	1000V	180
117.2258		7/8"	13,2	49,0	193,0	1000V	190
117.2259		15/16"	12,7	52,4	215,0	1000V	300
117.2261		1"	13,2	59,1	210,0	1000V	330

Ratchet ring spanner with protective insulation

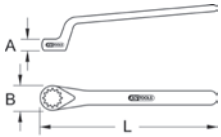
- FlankTraction profile
- In accordance to DIN 7446
- Insulated handle to DIN 60900
- Straight form
- Exact gearing with 72 teeth
- Chrome vanadium



	mm		A mm	B mm	L mm		kg
117.4206	6		6,7	14,4	126,0	1000V	0,03
117.4207	7		6,9	17,2	137,0	1000V	0,04
117.4208	8		6,9	17,2	140,0	1000V	0,04
117.4209	9		7,3	19,2	150,0	1000V	0,04
117.4210	10		7,7	21,2	159,0	1000V	0,06
117.4211	11		8,1	22,2	165,0	1000V	0,06
117.4212	12		8,6	23,2	172,0	1000V	0,08
117.4213	13		9,0	25,2	178,0	1000V	0,09
117.4214	14		9,4	28,2	191,0	1000V	0,12
117.4215	15		9,8	29,2	200,0	1000V	0,13
117.4216	16		10,3	31,2	208,0	1000V	0,16
117.4217	17		10,7	32,2	226,0	1000V	0,19
117.4218	18		11,1	33,2	237,0	1000V	0,23
117.4219	19		11,6	34,2	248,0	1000V	0,25
117.4221	21		13,4	40,4	274,0	1000V	0,36
117.4222	22		13,4	40,4	290,0	1000V	0,34
117.4224	24		14,9	46,4	323,0	1000V	0,49
117.4227	27		15,9	52,4	331,0	1000V	0,61
117.4228	30		17,4	59,2	389,0	1000V	0,90
117.4229	32		17,9	62,4	415,0	1000V	1,10
117.4230	34		17,9	62,4	460,0	1000V	1,25
117.2283		5/16"	9,2	18,2	124,0	1000V	0,05
117.2284		3/8"	11,2	22,9	141,0	1000V	0,05
117.2285		7/16"	11,5	24,4	143,8	1000V	0,06
117.2286		1/2"	12,9	27,7	150,0	1000V	0,08
117.2287		9/16"	12,2	29,8	164,0	1000V	0,09
117.2288		5/8"	13,2	33,9	177,0	1000V	0,14
117.2289		11/16"	12,9	34,3	185,0	1000V	0,18
117.2291		3/4"	13,7	36,8	205,0	1000V	0,21
117.2292		7/8"	16,2	44,2	248,0	1000V	0,22
117.2293		15/16"	14,0	50,3	277,0	1000V	0,42

Ring spanner with protective insulation, cranked

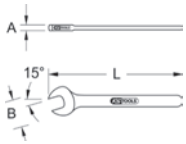
- FlankTraction profile
- In accordance to DIN 7447
- Insulated handle to IEC 60900
- Ring head 75° offset
- Chrome vanadium



	mm		A mm	B mm	L mm		g
117.1306	6		6,1	13,6	160,0		55
117.1307	7		6,7	12,6	160,0		55
117.1308	8		7,1	14,0	170,0		60
117.1309	9		7,4	15,5	170,0		65
117.1310	10		7,8	17,0	170,0		80
117.1311	11		8,1	18,4	180,0		90
117.1312	12		10,2	19,9	190,0		100
117.1313	13		10,9	21,3	190,0		110
117.1314	14		11,3	22,8	210,0		160
117.1315	15		11,9	24,1	215,0		170
117.1316	16		12,2	25,7	220,0		200
117.1317	17		12,6	27,1	225,0		250
117.1318	18		13,2	28,6	230,0		270
117.1319	19		13,6	30,1	240,0		290
117.1322	22		13,9	34,4	260,0		320
117.1324	24		15,4	36,2	280,0		490
117.1327	27		16,4	40,4	295,0		540
117.1330	30		17,4	44,4	310,0		580
117.1332	32		18,4	47,4	330,0		590
117.2269		5/16"	7,9	16,6	155,0	1000V	60
117.2271		3/8"	7,7	16,6	173,0	1000V	80
117.2272		7/16"	10,5	20,3	175,0	1000V	86
117.2273		1/2"	10,3	21,7	195,0	1000V	110
117.2274		9/16"	10,8	24,5	202,0	1000V	160
117.2275		5/8"	11,9	27,2	210,0	1000V	204
117.2276		11/16"	12,7	28,4	216,0	1000V	260
117.2277		3/4"	13,9	31,0	235,0	1000V	294
117.2278		13/16"	12,5	32,0	255,0	1000V	300
117.2279		7/8"	15,3	36,0	255,0	1000V	320
117.2281		15/16"	15,2	38,5	280,0	1000V	500
117.2282		1"	15,1	42,3	280,0	1000V	510

Ratchet open-end wrench with protective insulation

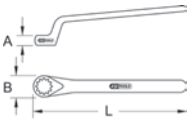
- In accordance to DIN 3113 / ISO 3318
- Insulated handle to IEC 60900
- Jaw 15° offset
- Chrome vanadium



	mm	A mm	B mm	L mm		g
117.2262	10	7,1	22,7	105,0	1000V	28
117.2263	11	8,2	25,6	115,0	1000V	34
117.2264	12	7,7	27,1	127,0	1000V	38
117.2265	13	8,5	28,9	135,0	1000V	46
117.2266	14	9,3	31,8	145,0	1000V	54
117.2267	17	10,7	38,4	160,0	1000V	74
117.2268	19	11,8	42,1	175,0	1000V	100

Ratchet gear with protective insulation

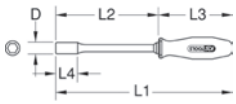
- FlankTraction profile
- Insulated handle to DIN 60900
- Exact gearing with 32 teeth
- extremely stable
- Reversible
- Chrome vanadium



	mm	A mm	B mm	L mm		kg
117.2294	13x17	44,2	34,2	283,0	1000V	0,35
117.2295	17x19	48,1	42,1	287,0	1000V	0,58
117.2296	19x24	55,1	51,5	365,0	1000V	0,91
117.2297	24x30	63,0	65,0	445,0	1000V	1,57

Socket screwdriver with protective insulation

- 6 point
- In accordance to DIN 7445
- Insulated to IEC 60900
- Chrome vanadium



	mm	D mm	L1 mm	L2 mm	L3 mm	L4 mm		g
117.1177	3	10,0	215,0	125,0	90,0	37,0	1000V	65
117.1178	3,5	10,0	215,0	125,0	90,0	37,0	1000V	70
117.1179	4	10,0	215,0	125,0	90,0	37,0	1000V	70
117.1181	4,5	10,0	215,0	125,0	90,0	37,0	1000V	70
117.1235	5	11,5	215,0	125,0	90,0	37,0		75
117.1182	5,5	15,5	215,0	125,0	90,0	37,0		70
117.1236	6	12,5	215,0	125,0	90,0	37,0		75
117.1237	7	14,5	225,0	125,0	100,0	37,0		115
117.1238	8	15,5	225,0	125,0	100,0	37,0		115
117.1239	9	16,5	225,0	125,0	100,0	37,0		155
117.1240	10	17,0	225,0	125,0	100,0	37,0		120
117.1241	11	19,5	235,0	125,0	110,0	37,0		160
117.1242	12	20,5	235,0	125,0	110,0	37,0		170
117.1243	13	21,5	235,0	125,0	110,0	37,0		170
117.1244	14	23,5	235,0	125,0	110,0	37,0		170
117.1247	17	26,5	235,0	125,0	110,0	37,0		190

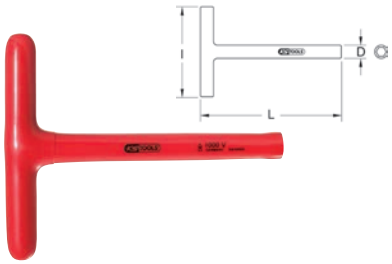
Tool set with insulated tools

- 6 point
- In accordance to DIN 7445
- Insulated handle to IEC 60900
- Chrome vanadium

117.1255	5 pcs	5,5 - 7 - 8 - 10 - 13 mm	630

T-handle socket wrench with protective insulation

- 6 point
- In accordance to DIN 7440
- Insulated handle to IEC 60900
- For use of especially long threaded bolts
- Made from precision steel tube
- Chrome vanadium



	mm	D mm	l mm	L mm		
117.1771	10	17,0	165,0	200,0	1000V	320
117.1772	11	19,0	165,0	200,0	1000V	380
117.1773	12	19,0	165,0	200,0	1000V	370
117.1774	13	20,0	165,0	200,0	1000V	370
117.1775	14	24,0	165,0	200,0	1000V	370
117.1776	16	26,0	165,0	200,0	1000V	420
117.1777	17	26,0	165,0	200,0	1000V	430
117.1778	18	29,0	165,0	200,0	1000V	460
117.1779	19	30,0	165,0	200,0	1000V	440
117.1781	20	32,0	165,0	200,0	1000V	460
117.1782	22	33,0	165,0	200,0	1000V	570
117.1783	24	35,0	165,0	200,0	1000V	590

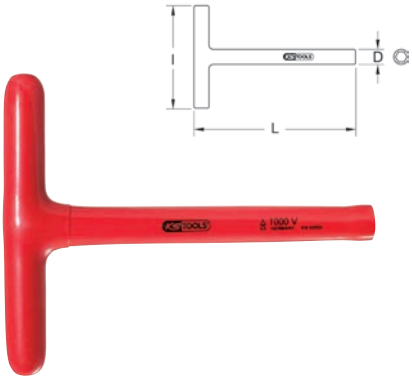
T-handle socket wrench with protective insulation, long

- 6 point
- In accordance to DIN 7440
- Insulated handle to IEC 60900
- For use of especially long threaded bolts
- Made from precision steel tube
- Chrome vanadium

	mm	D mm	l mm	L mm		
117.1725	8	17,0	165,0	300,0	1000V	350
117.1726	10	20,0	165,0	300,0	1000V	380
117.1727	11	20,0	165,0	300,0	1000V	430
117.1728	12	20,0	165,0	300,0	1000V	430
117.1729	13	20,0	165,0	300,0	1000V	420
117.1730	14	23,0	165,0	300,0	1000V	440
117.1731	17	28,0	165,0	300,0	1000V	520
117.1732	19	32,0	165,0	300,0	1000V	590
117.1733	22	33,0	165,0	300,0	1000V	690
117.1734	24	33,5	165,0	300,0	1000V	780

T-handle socket wrench with protective insulation

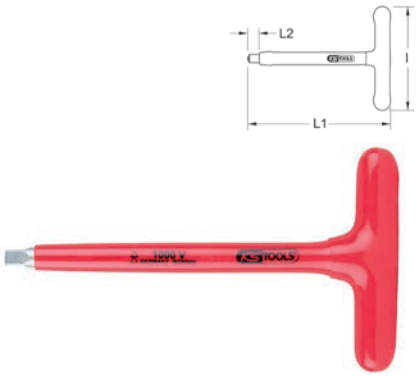
- Insulated to IEC 60900
- Magnetic
- For bits to DIN 3126 - C 6,3
- Chrome vanadium



	mm	D mm	l mm	L mm		
117.2422	4	8,1	95,0	210,0	1000V	164
117.2423	5	8,5	95,0	210,0	1000V	166
117.2424	6	11,7	95,0	210,0	1000V	170
117.2425	7	13,5	95,0	210,0	1000V	172
117.2426	8	15,0	95,0	210,0	1000V	173
117.2427	9	11,2	95,0	210,0	1000V	182
117.2428	10	18,0	95,0	210,0	1000V	190
117.2429	11	19,8	95,0	210,0	1000V	200
117.2431	12	19,8	95,0	210,0	1000V	204
117.2432	13	20,5	95,0	210,0	1000V	208
117.2433	14	23,2	95,0	210,0	1000V	224

T-handle socket wrench with protective insulation

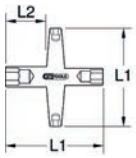
- Square drive adaptor to DIN 3120 / 1174 with ball lock
- In accordance to DIN 7436
- Insulated handle to IEC 60900
- Chrome vanadium



	■	l mm	L1 mm	L2 mm		
117.3919	1/4"	92,0	160,0	8,0	1000V	151
117.3920	3/8"	155,0	200,0	11,0	1000V	350
117.3921	1/2"	155,0	200,0	15,0	1000V	490

Cross wrench with protective insulation

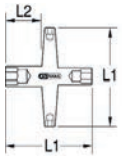
- 6 point
- Insulated handle to IEC 60900
- No contact between the steel hexagon drive
- Made from impact resistant plastic
- Chrome vanadium



	mm	L1 mm	L2 mm		
117.1701	10x11x12x13	140,0	55,0	1000V	230
117.1702	10x11x13x17	140,0	55,0	1000V	230
117.1704	10x12x14x17	140,0	55,0	1000V	230
117.1705	10x13x14x17	140,0	55,0	1000V	230
117.1706	11x12x13x17	140,0	55,0	1000V	230
117.1707	11x13x14x17	140,0	55,0	1000V	230
117.1708	13x17x19x22	140,0	55,0	1000V	340
117.1709	14x17x19x22	140,0	55,0	1000V	340

Cross wrench with protective insulation

- 6 point
- Insulated handle to IEC 60900
- No contact between the steel hexagon drive
- Made from impact resistant plastic
- Centre cross reinforced with hard fibre
- Chrome vanadium

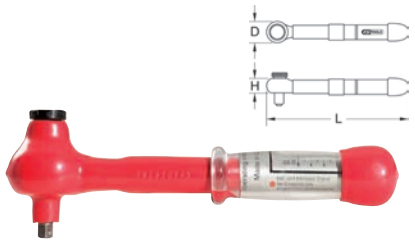


	mm	L1 mm	L2 mm		
117.1720	10x13x14x17	220,0	92,0	1000V	430

1/4" RANGE WITH PROTECTIVE INSULATION

Mini torque wrench with protective insulation and reversible ratchet head

- Insulated handle to IEC 60900
- For working enviroment of voltages AC 1000 V and DC 1500 V
- Release accuracy: ±4 % tolerance from the set scale value and better
- Precise reading accuracy for a minimum 5.000 tightening cycles
- For controlled fastening in a clockwise direction
- Can untighten without any torque restraint thanks to the anticlockwise latch
- An audible and palpable signal when the desired torque value is achieved
- Exact gearing 30 teeth ratchet mechanism
- Ergonomic designed handle provides secure transmission of the torque
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Individually marked with serial number - unique product identification
- including calibration declaration of conformity according to DIN EN ISO 6789:2017(E) - traceable to national standards

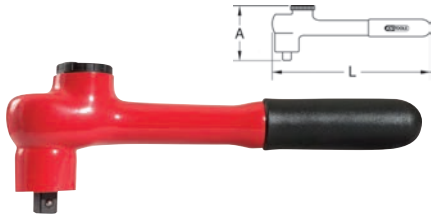


1/4"

	■	N·m	D mm	H mm	L mm	ϟ	g
117.1400	1/4"	2-12	40,0	41,0	200,0	1000V	400
117.1402	1/4"	5-25	40,0	41,0	200,0	1000V	420

Reversible ratchet with protective insulation

- Square drive adaptor to DIN 3120 / 1174 with ball lock
- In accordance to DIN 7449
- Insulated handle to IEC 60900
- With reversible 32-teeth ratchet head
- With frictional contact square drive with locking device
- Chrome vanadium



1/4"

	■	A mm	L mm	ϟ	g
117.1401	1/4"	54,5	141,0	1000V	128

Extension with protective insulation

- In accordance to DIN 7434
- Insulated handle to IEC 60900
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- With frictional contact square drive with locking device
- Chrome vanadium

1/4"

	■	L mm	ϟ	g
117.1451	1/4"	50,0	1000V	40
117.1452	1/4"	75,0	1000V	45
117.1453	1/4"	100,0	1000V	56
117.1454	1/4"	150,0	1000V	68

socket with protective insulation

- 6 point
- In accordance to DIN 7448
- Insulated handle to IEC 60900
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Chrome vanadium

1/4"

	⬢ mm	D1 mm	D2 mm	L mm	ϟ	g
117.1404	4	16,0	10,0	37,0	1000V	14
117.1405	5	16,5	11,5	37,0	1000V	12
117.1406	6	16,5	12,0	37,0	1000V	12
117.1407	7	16,5	13,5	37,0	1000V	15
117.1408	8	16,5	15,5	37,0	1000V	15
117.1409	9	16,5	16,5	37,0	1000V	16
117.1410	10	16,5	17,5	37,0	1000V	18
117.1411	11	16,5	20,0	37,0	1000V	18
117.1412	12	16,5	21,0	37,0	1000V	24
117.1413	13	16,5	22,0	37,0	1000V	26
117.1414	14	16,5	24,0	37,0	1000V	29

Socket with protective insulation, long

- 6 point
- In accordance to DIN 7448
- Insulated handle to IEC 60900
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Chrome vanadium

1/4"

	⬢ mm	D1 mm	D2 mm	L mm	ϟ	g
117.2341	4	16,5	9,5	55,0	1000V	22
117.2342	5	16,5	9,5	55,0	1000V	24
117.2343	6	16,5	9,5	55,0	1000V	28
117.2344	7	16,5	9,5	55,0	1000V	30
117.2345	8	16,5	9,5	55,0	1000V	31
117.2346	9	16,5	9,5	55,0	1000V	38
117.2347	10	16,5	9,5	55,0	1000V	48
117.2348	11	16,5	9,5	55,0	1000V	57
117.2349	12	16,5	9,5	55,0	1000V	60
117.2351	13	16,5	9,5	55,0	1000V	64
117.2352	14	16,5	9,5	55,0	1000V	78

socket with protective insulation

- 6 point
- In accordance to DIN 7448
- Insulated handle to IEC 60900
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Chrome vanadium

1/4"

	⬢	D1 mm	D2 mm	L mm	ϟ	g
117.2401	3/16"	16,5	11,7	38,0	1000V	12
117.2402	1/4"	16,5	13,0	38,0	1000V	12
117.2403	5/16"	16,5	15,1	38,0	1000V	15
117.2404	3/8"	16,5	17,8	38,0	1000V	18
117.2405	7/16"	16,5	19,8	38,0	1000V	18
117.2406	1/2"	16,5	21,6	38,0	1000V	26
117.2407	9/16"	16,5	24,0	38,0	1000V	28

Bit socket with protective insulation for hexagon socket screws

- Hexagon socket
- Insulated handle to IEC 60900
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Burnished
- Chrome vanadium

1/4"

	⬢ mm	D mm	L mm	ϟ	g
117.1415	3	16,5	44,0	1000V	13
117.1416	4	16,5	44,0	1000V	13
117.1417	5	16,5	44,0	1000V	14
117.1418	6	16,5	44,0	1000V	15
117.1419	8	16,5	44,0	1000V	19

Bit socket with protective insulation for Torx screws

- Torx
- Insulated handle to IEC 60900
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Burnished
- Chrome vanadium

1/4"

		D mm	L mm	ϟ	g
117.2471	T8	15,0	45,0	1000V	13
117.2472	T10	15,0	45,0	1000V	13
117.2473	T15	15,0	45,0	1000V	13
117.2474	T20	15,0	45,0	1000V	14
117.2475	T25	15,0	45,0	1000V	15
117.2476	T27	15,0	45,0	1000V	15
117.2477	T30	15,0	45,0	1000V	19

Bit holder with protective insulation

- Insulated handle to IEC 60900
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Magnetic
- For bits to DIN 3126 / C 6,3
- Chrome vanadium

1/4"

	□	○	D1 mm	D2 mm	L mm	ϟ	g
117.1420	1/4"	1/4"	16,0	16,5	40,0	1000V	240

1/4" SETS WITH PROTECTIVE INSULATION

Socket-set with insulated tools

- Insulated handle to IEC 60900
- Chrome vanadium
- In durable plastic storage case

1/4"

			kg
117.1877	22 pcs	Socket-set with insulated tools	1,60

1 x		1/4"
4 x		1/4": 50 - 75 - 100 - 150 mm
1 x		1/4"
1 x		1/4"
10 x		1/4": 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 14 mm
5 x		1/4": 3 - 4 - 5 - 6 - 8 mm

Socket-set with insulated tools

- Insulated handle to IEC 60900
- Chrome vanadium
- In durable plastic storage case

1/4"

			kg
117.1876	21 pcs	Socket-set with insulated tools	1,00

1 x		1/4": 5 - 25 Nm
3 x		1/4": 75 - 100 - 150 mm
2 x		1/4"
5 x		1/4": 6 - 8 - 10 - 13 - 14 mm
3 x		1/4": 5 - 6 - 8 mm
3 x		1/4": 4 - 5,5 - 6,5 mm
2 x		1/4": PH1 - PH2
2 x		1/4": PZ1 - PZ2

Socket-set with insulated tools

- Insulated handle to IEC 60900
- Chrome vanadium
- In durable plastic storage case

1/4"

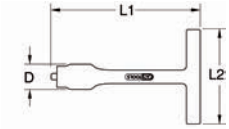
			kg
117.1878	21 pcs	Socket-set with insulated tools	1,90

1 x		1/4": 5 - 25 Nm
4 x		1/4": 50 - 75 - 100 - 150 mm
1 x		1/4"
10 x		1/4": 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 14 mm
5 x		1/4": 3 - 4 - 5 - 6 - 8 mm

3/8" RANGE WITH PROTECTIVE INSULATION

Fixed T-handle torque limiter with protective insulation

- Insulated handle to IEC 60900
- For working enviroment of voltages AC 1000 V and DC 1500 V
- High accuracy
- For controlled fastening in a clockwise direction
- Clearly noticeable torque release signal through ratchet
- It is not possible to over tighten the set value
- Without scale - with a fixed adjustable value
- Can untighten without any torque restraint thanks to the anticlockwise latch
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock



3/8"

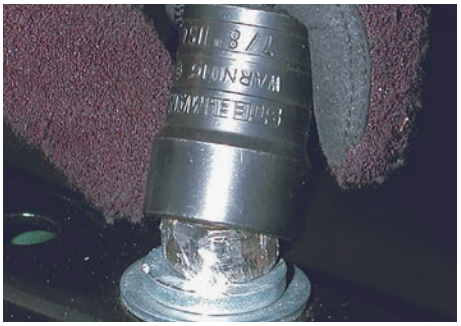
	■	N·m	D mm	L mm	l mm	ϟ	g
117.3806	3/8"	12	36,5	270,0	165,0	1000V	540
117.3807	3/8"	18	36,5	270,0	165,0	1000V	540
117.3808	3/8"	25	36,5	270,0	165,0	1000V	540

Fixed torque limiter with protective insulation

- Insulated handle to IEC 60900
- For working enviroment of voltages AC 1000 V and DC 1500 V
- High accuracy
- For controlled fastening in a clockwise direction
- Clearly noticeable torque release signal through ratchet
- It is not possible to over tighten the set value
- Without scale - with a fixed adjustable value
- Can untighten without any torque restraint thanks to the anticlockwise latch
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock

3/8"

	□	■	N·m	D1 mm	D2 mm	L mm	ϟ	g
117.3802	3/8"	3/8"	12	23,0	27,5	92,0	1000V	310
117.3803	3/8"	3/8"	18	23,0	27,5	92,0	1000V	310
117.3804	3/8"	3/8"	25	23,0	27,5	92,0	1000V	310



Fixed torque wrench with protective insulation

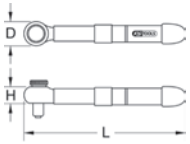
- Actuation accuracy: ±4 % tolerance of the set scale value
- Precise reading accuracy for a minimum 5.000 tightening cycles
- For controlled fastening in a clockwise direction
- Can untighten without any torque restraint thanks to the anticlockwise latch
- An audible and palpable signal when the desired torque value is achieved
- Without scale - with a fixed adjustable value
- Hexagon socket holder in accordance with DIN 3126 - E6,3
- Individually marked with serial number - unique product identification
- including calibration declaration of conformity according to DIN EN ISO 6789:2017(E) - traceable to national standards

3/8"

	■	N·m	A mm	L mm	ϟ	
117.3922	3/8"	5-35	78,0	210,0	1000V	420

Mini torque wrench with protective insulation and reversible ratchet head

- Insulated handle to IEC 60900
- For working enviroment of voltages AC 1000 V and DC 1500 V
- Release accuracy: ±4 % tolerance from the set scale value and better
- Precise reading accuracy for a minimum 5.000 tightening cycles
- For controlled fastening in a clockwise direction
- Can untighten without any torque restraint thanks to the anticlockwise latch
- An audible and palpable signal when the desired torque value is achieved
- Exact gearing 30 teeth ratchet mechanism
- Ergonomic designed handle provides secure transmission of the torque
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Individually marked with serial number - unique product identification
- including calibration declaration of conformity according to DIN EN ISO 6789:2017(E) - traceable to national standards

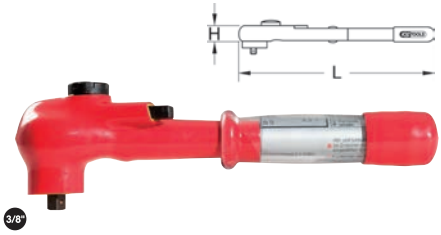


3/8"

	■	N·m	D mm	H mm	L mm	ϟ	
117.1184	3/8"	5-25	40,0	42,0	200,0	1000V	440

Torque wrench with protective insulation and reversible ratchet head

- Insulated handle to IEC 60900
- For working enviroment of voltages AC 1000 V and DC 1500 V
- Release accuracy: ±4 % tolerance from the set scale value and better
- Precise reading accuracy for a minimum 5.000 tightening cycles
- For controlled fastening in a clockwise direction
- Can untighten without any torque restraint thanks to the anticlockwise latch
- Scale in Nm divisions for precise adjustment
- Large vision panel for precise adjustment
- An audible and palpable signal when the desired torque value is achieved
- Exact gearing 30 teeth ratchet mechanism
- Torque setting is quick and easy using the locking knob in the handle end
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Individually marked with serial number - unique product identification
- including calibration declaration of conformity according to DIN EN ISO 6789:2017(E) - traceable to national standards

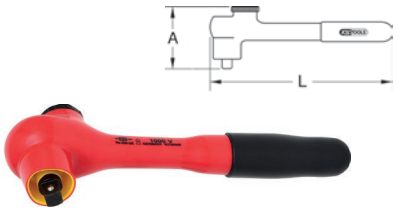


3/8"

	■	N·m	H mm	L mm	ϟ	kg
117.3805	3/8"	2-27	51,0	280,0	1000V	0,92
117.3810	3/8"	5-50	51,0	370,0	1000V	1,07

Reversible ratchet with protective insulation

- Square drive adaptor to DIN 3120 / 1174 with ball lock
- In accordance to DIN 7449
- Insulated handle to IEC 60900
- With reversible 32-teeth ratchet head
- With frictional contact square drive with locking device
- Chrome vanadium

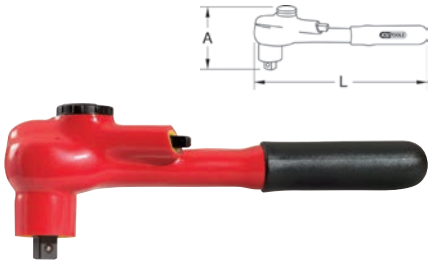


3/8"

	■	A mm	L mm	ϟ	
117.3801	3/8"	73,0	200,0	1000V	350

Reversible ratchet with protective insulation

- Square drive adaptor to DIN3120 / ISO 1174 with ball lock
- In accordance to DIN 7449
- Insulated handle to IEC 60900
- With reversible 32-teeth ratchet head
- Secure locking function on the square drive
- Chrome vanadium



3/8"

	■	A mm	L mm	ϟ	
117.3800	3/8"	78,0	205,0	1000V	370

Extension with protective insulation

- In accordance to DIN 7434
- Insulated handle to IEC 60900
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- With frictional contact square drive with locking device
- Chrome vanadium

3/8"

	■	L mm	ϟ	
117.2301	3/8"	75,0	1000V	85
117.3851	3/8"	125,0	1000V	140
117.3852	3/8"	250,0	1000V	280

Extension with protective insulation and screw locking

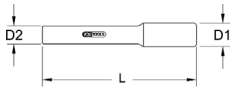
- In accordance to DIN 7434
- Insulated handle to IEC 60900
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- With screw adjustment on the square drive
- Chrome vanadium

3/8"

	■	L mm	ϟ	
117.3823	3/8"	125,0	1000V	140
117.3825	3/8"	250,0	1000V	280

Bit holder with protective insulation

- Insulated handle to IEC 60900
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Magnetic
- For bits to DIN 3126 / C 6,3
- Chrome vanadium

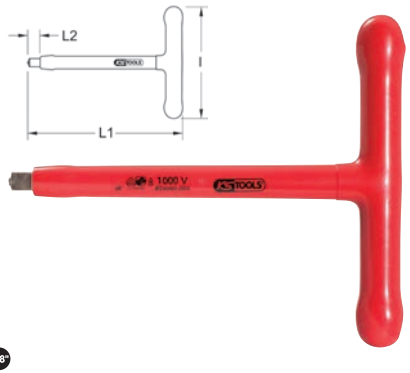


3/8"

	□	○	D1 mm	D2 mm	L mm	ϟ	
117.3811	3/8"	1/4"	25,0	13,0	125,0	1000V	165
117.3812	3/8"	1/4"	25,0	13,0	250,0	1000V	250

T-handle socket wrench with protective insulation and screw lock

- Square drive adaptor to DIN 3120 / 1174 with ball lock
- In accordance to DIN 7436
- Insulated handle to IEC 60900
- With screw adjustment
- Chrome vanadium



3/8"

		l mm	L1 mm	L2 mm		
117.3820	3/8"	165,0	200,0	15,0		250

socket with protective insulation

- 12 point
- FlankTraction profile
- In accordance to DIN 7448
- Insulated handle to IEC 60900
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Chrome vanadium

3/8"

	mm		D1 mm	D2 mm	L mm		
117.3831	6		23,0	14,0	48,0		30
117.3832	7		23,0	15,0	48,0		30
117.3833	8		23,0	16,0	48,0		30
117.3834	9		23,0	17,0	48,0		35
117.3835	10		23,0	19,5	48,0		35
117.3836	11		23,0	19,5	48,0		35
117.3837	12		23,0	20,5	48,0		40
117.3838	13		23,0	23,0	48,0		40
117.3839	14		23,0	23,5	48,0		40
117.3840	15		23,0	26,0	48,0		45
117.3841	16		23,0	26,5	48,0		45
117.3842	17		23,0	28,0	48,0		50
117.3843	18		23,0	30,0	48,0		50
117.3844	19		23,0	30,0	48,0		60
117.3845	20		23,0	32,0	48,0		60
117.3846	21		23,0	33,5	48,0		60
117.3847	22		23,0	37,5	48,0		60
117.3813	23		22,5	34,0	48,0	1000V	91
117.3848	24		23,0	38,5	48,0	1000V	60
117.1020		1/4"	22,0	13,0	48,0	1000V	30
117.1021		5/16"	22,0	15,5	48,0	1000V	30
117.1022		3/8"	22,0	19,0	48,0	1000V	31
117.1023		7/16"	22,0	20,0	48,0	1000V	32
117.1024		1/2"	22,0	23,0	48,0	1000V	40
117.1025		9/16"	22,0	24,5	48,0	1000V	40
117.1026		5/8"	22,0	26,5	48,0	1000V	42
117.1027		11/16"	22,0	29,0	48,0	1000V	50
117.1028		3/4"	22,0	30,0	48,0	1000V	60
117.1029		13/16"	22,0	32,0	48,0	1000V	60
117.1030		7/8"	22,0	36,0	48,0	1000V	60
117.1031		15/16"	22,0	37,0	48,0	1000V	91

Socket with protective insulation, long

- FlankTraction profile
- In accordance to DIN 7448
- Insulated handle to IEC 60900
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Chrome vanadium

3/8"

	Profile	mm	D1 mm	D2 mm	L mm		
117.1090		10	22,0	18,0	80,0	1000V	60
117.1091		11	22,0	19,5	80,0	1000V	60
117.1092		12	22,0	21,0	80,0	1000V	70
117.1093		13	22,0	23,0	80,0	1000V	70
117.1094		14	22,0	24,0	80,0	1000V	80
117.1095		15	22,0	26,0	80,0	1000V	80
117.1096		16	22,0	27,0	80,0	1000V	110
117.1097		17	22,0	28,0	80,0	1000V	110
117.3881		18	22,0	29,5	80,0	1000V	138
117.3882		19	22,0	30,5	80,0	1000V	180
117.3883		22	22,0	34,5	80,0	1000V	180
117.3884		24	22,0	37,5	80,0	1000V	213

Socket with protective insulation, extra long

- 12 point
- FlankTraction profile
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Insulated handle to IEC 60900
- Chrome vanadium

3/8"

	mm	D1 mm	D2 mm	L mm		
117.3853	10	23,0	19,0	135,0	1000V	180
117.3854	11	23,0	20,0	135,0	1000V	185
117.3855	12	23,0	22,0	135,0	1000V	200
117.3856	13	23,0	22,0	135,0	1000V	210
117.3857	14	23,0	26,0	135,0	1000V	220
117.3858	17	23,0	29,0	135,0	1000V	240
117.3859	19	23,0	31,0	135,0	1000V	260
117.3860	22	23,0	35,0	135,0	1000V	280

Torx E socket with protective insulation

- Torx E
- Insulated handle to IEC 60900
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- For manual operation
- Chrome vanadium

3/8"

		D1 mm	D2 mm	L mm		
117.2376	E4	23,0	10,8	45,0	1000V	40
117.2377	E5	23,0	12,3	45,0	1000V	40
117.2378	E6	23,0	13,5	45,0	1000V	40
117.2379	E7	23,0	13,7	45,0	1000V	45
117.2381	E8	23,0	15,5	45,0	1000V	45
117.2382	E10	23,0	17,2	45,0	1000V	48
117.2383	E11	23,0	18,0	45,0	1000V	50
117.2384	E12	23,0	19,0	45,0	1000V	50
117.2385	E14	23,0	20,5	45,0	1000V	54
117.2386	E16	23,0	23,1	45,0	1000V	56
117.2387	E18	23,0	25,0	45,0	1000V	58
117.2388	E20	23,0	27,0	45,0	1000V	58

Torx E socket with protective insulation, long

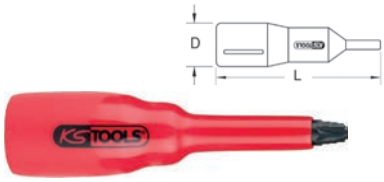
- Torx E
- Insulated handle to IEC 60900
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- For manual operation
- Chrome vanadium

3/8"

		D1 mm	D2 mm	L mm		
117.2363	E4	23,0	9,4	72,0	1000V	50
117.2364	E5	23,0	10,9	72,0	1000V	50
117.2365	E6	23,0	12,3	72,0	1000V	50
117.2366	E7	23,0	13,1	72,0	1000V	55
117.2367	E8	23,0	14,5	72,0	1000V	55
117.2368	E10	23,0	16,2	72,0	1000V	58
117.2369	E11	23,0	17,0	72,0	1000V	60
117.2371	E12	23,0	18,0	72,0	1000V	60
117.2372	E14	23,0	20,6	72,0	1000V	64
117.2373	E16	23,0	23,0	72,0	1000V	66
117.2374	E18	23,0	24,8	72,0	1000V	68
117.2375	E20	23,0	26,0	72,0	1000V	68

Bit socket with protective insulation for PZ screws

- PZ
- Insulated handle to IEC 60900
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Burnished
- Chrome vanadium

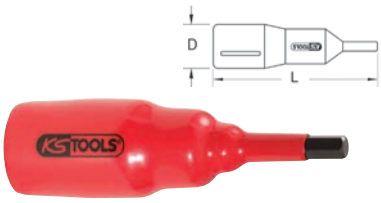


3/8"

		D mm	L mm		
117.1739	PZ 1	22,0	95,0	1000V	60
117.1740	PZ 2	22,0	95,0	1000V	58
117.1741	PZ 3	22,0	95,0	1000V	70

Bit socket with protective insulation for hexagon socket screws

- Hexagon socket
- Insulated handle to IEC 60900
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Burnished
- Chrome vanadium

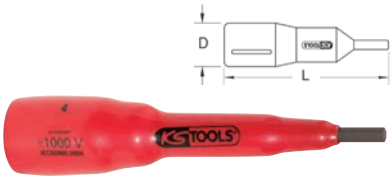


3/8"

	mm	D mm	L mm		
117.1735	4	22,0	54,0	1000V	40
117.1736	5	22,0	54,0		40
117.1737	6	22,0	54,0		40
117.1738	8	22,0	54,0		40

Bit socket with protective insulation for hexagon socket screws, long

- Hexagon socket
- Insulated handle to IEC 60900
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Burnished
- Chrome vanadium



3/8"

	mm	D mm	L mm		
117.3861	4	23,0	82,0	1000V	45
117.3862	5	23,0	82,0	1000V	50
117.3863	6	23,0	82,0	1000V	50
117.3864	8	23,0	82,0	1000V	65
117.3865	10	23,0	82,0	1000V	80
117.3866	12	23,0	82,0	1000V	85
117.3867	4	23,0	116,0	1000V	70
117.3868	5	23,0	116,0	1000V	75
117.3869	6	23,0	116,0	1000V	76
117.3870	8	23,0	116,0	1000V	75
117.3871	10	23,0	116,0	1000V	80
117.3872	12	23,0	116,0	1000V	85
117.3873	5	23,0	180,0	1000V	100
117.3874	6	23,0	180,0	1000V	100
117.3875	5	23,0	270,0	1000V	115
117.3876	6	23,0	270,0	1000V	120
117.3877	8	23,0	270,0	1000V	140
117.3878	10	23,0	270,0	1000V	170

Bit socket with protective insulation for Torx screws, short

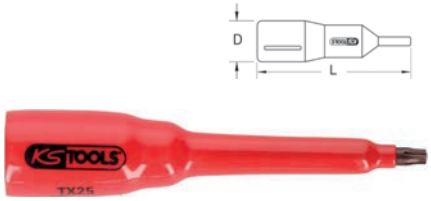
- Torx
- Insulated handle to IEC 60900
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Burnished
- Chrome vanadium

3/8"

		D mm	L mm		
117.2454	T10	20,0	65,0	1000V	40
117.2455	T15	20,0	65,0	1000V	40
117.2456	T20	20,0	65,0	1000V	45
117.2457	T25	20,0	65,0	1000V	45
117.2458	T27	20,0	65,0	1000V	50
117.2459	T30	20,0	65,0	1000V	55
117.2461	T40	20,0	65,0	1000V	58

Bit socket with protective insulation for Torx screws, long

- Torx
- Insulated handle to IEC 60900
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Burnished
- Chrome vanadium



3/8"

		D mm	L mm		
117.2462	T10	20,0	100,0	1000V	65
117.2463	T15	20,0	100,0	1000V	68
117.2464	T20	20,0	100,0	1000V	70
117.2465	T25	20,0	100,0	1000V	74
117.2466	T27	20,0	100,0	1000V	75
117.2467	T30	20,0	100,0	1000V	78
117.2468	T40	20,0	100,0	1000V	82

Bit socket with protective insulation for multi-tooth (XZN®) screws

- Spline (XZN®)
- Insulated handle to IEC 60900
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Burnished
- Chrome vanadium

3/8"

	mm	D mm	L mm		
117.3893	M8	23,0	95,0	1000V	85
117.3894	M10	23,0	95,0	1000V	90
117.3895	M12	23,0	95,0	1000V	95

Bit holder with protective insulation

- Insulated handle to IEC 60900
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Magnetic
- For bits to DIN 3126 / C 6,3
- Chrome vanadium

3/8"

	□	○	D mm	L mm		
117.2313	3/8"	1/4"	55,0	45,0	1000V	34
117.2314	3/8"	8 mm	55,0	50,0	1000V	36

Reducing adapter with protective insulation

- In accordance to DIN 3123 / ISO 3316
- Insulated handle to IEC 60900
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Matt chrome
- Chrome vanadium

	□	■	D mm	L mm		
117.1189	1/4"	3/8"	17,0	39,0	1000V	60
117.3885	3/8"	1/2"	23,0	52,0	1000V	80
117.1190	3/8"	1/4"	22,0	86,0	1000V	60
117.1285	1/2"	3/8"	20,0	75,0	1000V	220

3/8" SETS WITH PROTECTIVE INSULATION

Socket-set with insulated tools

- Insulated handle to IEC 60900
- Chrome vanadium
- In durable plastic storage case

3/8"

			kg
117.1882	16 pcs	Socket-set with insulated tools	3,80
1 x		3/8"	
2 x		3/8": 125 - 250 mm	
1 x		3/8"	
8 x		3/8": 10 - 11 - 12 - 13 - 14 - 17 - 19 22 mm	
3 x		3/8": 5 - 6 - 8 mm	
1 x		25 Nm	

Socket-set with insulated tools

- Insulated handle to IEC 60900
- Chrome vanadium
- In durable plastic storage case

3/8"

			kg
117.1850	16 pcs	Socket-set with insulated tools	4,00
1 x		3/8"	
2 x		3/8": 125 - 250 mm	
1 x		3/8"	
8 x		3/8": 10 - 11 - 12 - 13 - 14 - 17 - 19 - 22 mm	
3 x		3/8":5 - 6 - 8 mm	
1 x		3,5 mm	

Socket-set with insulated tools

- Insulated handle to IEC 60900
- Chrome vanadium
- In durable plastic storage case

3/8"

			kg
117.1885	16 pcs	Socket-set with insulated tools	3,40
1 x		3/8"	
2 x		3/8": 125 - 250 mm	
3 x		3/8": 13 - 17 - 19 mm	
4 x		3/8": 5 - 6 - 8 - 10 mm	
1 x		3/8": 5 mm	
1 x		2,5 mm	
2 x		5 - 6 mm	
1 x		Ø 25mm	
1 x		160 mm	

Socket-set with insulated tools

- Insulated handle to IEC 60900
- Chrome vanadium
- In durable plastic storage case

3/8"

			kg
117.1881	14 pcs	Socket-set with insulated tools	3,87
1 x		3/8": 5 - 50 Nm	
2 x		3/8": 125 - 250 mm	
5 x		3/8": 10 - 13 - 14 - 17 - 19 mm	
5 x		3/8": 4 - 5 - 6 - 8 - 10 mm	
1 x		3/8": 95 - 150 mm	

Socket-set with insulated tools

- Insulated handle to IEC 60900
- Chrome vanadium
- In durable plastic storage case

3/8"

			kg
117.1888	13 pcs	Socket-set with insulated tools	2,40
1 x		3/8"	
2 x		3/8": 125 - 250 mm	
1 x		3/8"	
5 x		3/8": 8 - 10 - 13 - 17 - 19 mm	
4 x		3/8": 4 - 5 - 6 - 8 mm	

Socket-set with insulated tools

- Insulated handle to IEC 60900
- Chrome vanadium
- In durable plastic storage case

3/8"

			kg
117.1886	13 pcs	Socket-set with insulated tools	2,56
1 x		3/8"	
2 x		3/8": 125 - 250 mm	
1 x		3/8"	
5 x		3/8": 8 - 10 - 13 - 17 - 19 mm	
4 x		3/8": 4 - 5 - 6 - 8 mm	

Socket-set with insulated tools

- Insulated handle to IEC 60900
- Chrome vanadium
- In durable plastic storage case

3/8"

			kg
117.1887	11 pcs	Socket-set with insulated tools	1,80

1 x		3/8“
1 x		3/8“: 125 mm
5 x		3/8“: 8 - 10 - 13 - 17 - 19 mm
4 x		3/8“: 4 - 5 - 6 - 8 mm

Socket-set with insulated tools

- Insulated handle to IEC 60900
- Chrome vanadium
- In durable plastic storage case

3/8"

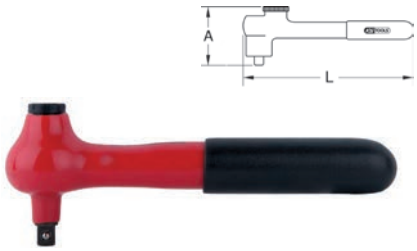
			kg
117.1889	11 pcs	Socket-set with insulated tools	1,75

1 x		3/8“
1 x		3/8“: 125 mm
5 x		3/8“: 8 - 10 - 13 - 17 - 19 mm
4 x		3/8“: 4 - 5 - 6 - 8 mm

1/2” RANGE WITH PROTECTIVE INSULATION

Fixed torque wrench with protective insulation

- Actuation accuracy: ±4 % tolerance of the set scale value
- Precise reading accuracy for a minimum 5.000 tightening cycles
- For controlled fastening in a clockwise direction
- Can untighten without any torque restraint thanks to the anticlockwise latch
- An audible and palpable signal when the desired torque value is achieved
- Without scale - with a fixed adjustable value
- Hexagon socket holder in accordance with DIN 3126 - E6,3
- Individually marked with serial number - unique product identification
- including calibration declaration of conformity according to DIN EN ISO 6789:2017(E) - traceable to national standards

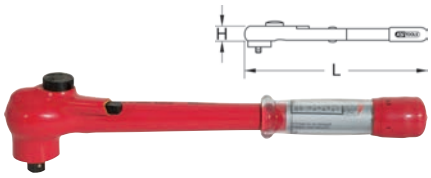


1/2"

	■	N·m	A mm	L mm	ϟ	g
117.1001	1/2”	5-35	78,0	250,0	1000V	420

Torque wrench with protective insulation and reversible ratchet head

- Insulated handle to IEC 60900
- For working enviroment of voltages AC 1000 V and DC 1500 V
- Release accuracy: ±4 % tolerance from the set scale value and better
- Precise reading accuracy for a minimum 5.000 tightening cycles
- For controlled fastening in a clockwise direction
- Can untighten without any torque restraint thanks to the anticlockwise latch
- Scale in Nm divisions for precise adjustment
- Large vision panel for precise adjustment
- An audible and palpable signal when the desired torque value is achieved
- Exact gearing 30 teeth ratchet mechanism
- Torque setting is quick and easy using the locking knob in the handle end
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Individually marked with serial number - unique product identification
- including calibration declaration of conformity according to DIN EN ISO 6789:2017(E) - traceable to national standards

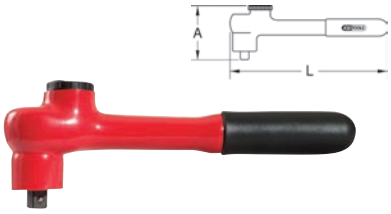


1/2"

	■	N·m	H mm	L mm	ϟ	kg
117.1301	1/2”	2-27	61,0	280,0	1000V	0,93
117.1300	1/2”	5-50	61,0	370,0		1,10
117.1302	1/2”	20-100	61,0	460,0	1000V	1,20
117.1303	1/2”	40-220	61,0	530,0	1000V	1,30

Reversible ratchet with protective insulation

- Square drive adaptor to DIN 3120 / 1174 with ball lock
- In accordance to DIN 7449
- Insulated handle to IEC 60900
- With reversible 32-teeth ratchet head
- With frictional contact square drive with locking device
- Chrome vanadium

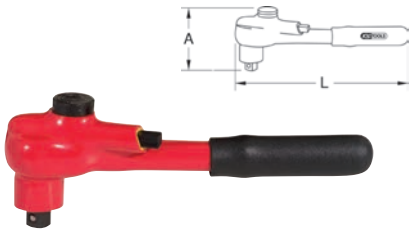


1/2"

	■	A mm	L mm	ϟ	g
117.1201	1/2”	90,0	245,0	1000V	700

Reversible ratchet with protective insulation

- Square drive adaptor to DIN3120 / ISO 1174 with ball lock
- In accordance to DIN 7449
- Insulated handle to IEC 60900
- With reversible 32-teeth ratchet head
- Secure locking function on the square drive
- Special tool steel



1/2"

	■	A mm	L mm	ϟ	g
117.1200	1/2”	88,0	245,0		750

Extension with protective insulation

- In accordance to DIN 7434
- Insulated handle to IEC 60900
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- With frictional contact square drive with locking device
- Chrome vanadium

1/2"

	■	L mm	ϟ	g
117.2302	1/2”	75,0	1000V	88
117.1251	1/2”	125,0	1000V	212
117.1252	1/2”	250,0	1000V	395

Extension with protective insulation and screw locking

- In accordance to DIN 7434
- Insulated handle to IEC 60900
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- 250mm with screw locking on the outside square
- 125mm with screw locking also from closed hexagon socket, Torx, XZN Sockets from below through the inside square of the extension
- Chrome vanadium

1/2"

	■	L mm	ϟ	g
117.1202	1/2"	125,0	≥ 1000 V	211
117.1203	1/2"	250,0	≥ 1000 V	406

Extension with protective insulation

- In accordance to DIN 7434
- Insulated handle to IEC 60900
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- With frictional contact square drive with locking device
- Chrome vanadium

1/2"

	■	L mm	ϟ	g
117.1229	1/2"	125,0	1000V	198
117.1231	1/2"	250,0	1000V	374

T-handle socket wrench with protective insulation and screw lock

- Square drive adaptor to DIN 3120 / 1174 with ball lock
- In accordance to DIN 7436
- Insulated handle to IEC 60900
- With screw adjustment
- Chrome vanadium

1/2"

	■	l mm	L1 mm	L2 mm	ϟ	g
117.1205	1/2"	165,0	200,0	15,0	≥ 1000 V	490

socket with protective insulation

- 6 point
- In accordance to DIN 7448
- Insulated handle to IEC 60900
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Chrome vanadium

1/2"

	⬢ mm	D1 mm	D2 mm	L mm	ϟ	g
117.1208	8	26,0	17,0	55,0	≥ 1000 V	65
117.1209	9	26,0	19,0	55,0	≥ 1000 V	65
117.1210	10	26,0	20,0	55,0	≥ 1000 V	70
117.1211	11	26,0	21,0	55,0	≥ 1000 V	75
117.1212	12	26,0	22,0	55,0	≥ 1000 V	75
117.1213	13	26,0	23,5	55,0	≥ 1000 V	75
117.1214	14	26,0	25,0	55,0	≥ 1000 V	80
117.1215	15	26,0	26,0	55,0	≥ 1000 V	80
117.1216	16	26,0	26,5	55,0	≥ 1000 V	85
117.1217	17	26,0	28,5	55,0	≥ 1000 V	90
117.1218	18	26,0	31,0	55,0	≥ 1000 V	85
117.1219	19	26,0	31,5	55,0	≥ 1000 V	100
117.1220	20	26,0	33,0	55,0	≥ 1000 V	100
117.1221	21	26,0	34,5	55,0	≥ 1000 V	120
117.1222	22	26,0	35,0	55,0	≥ 1000 V	120
117.1223	23	26,0	36,0	55,0	≥ 1000 V	125
117.1224	24	26,0	37,0	55,0	≥ 1000 V	140
117.1226	26	26,0	39,0	61,0	≥ 1000 V	175
117.1227	27	26,0	41,0	61,0	≥ 1000 V	195
117.1228	28	26,0	44,0	61,0	≥ 1000 V	190
117.1230	30	26,0	46,0	61,0	≥ 1000 V	230
117.1232	32	26,0	49,5	61,0	≥ 1000 V	280

Socket with protective insulation, long

- 6 point
- In accordance to DIN 7448
- Insulated handle to IEC 60900
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Chrome vanadium

1/2"

	⬢ mm	D1 mm	D2 mm	L mm	ϟ	g
117.1333	8	26,0	19,0	94,0	1000V	105
117.1334	10	26,0	21,0	94,0	1000V	110
117.1335	11	26,0	21,0	94,0	1000V	130
117.1336	12	26,0	22,0	94,0	1000V	145
117.1337	13	26,0	23,5	94,0	1000V	145
117.1338	14	26,0	25,5	94,0	1000V	145
117.1339	15	26,0	27,0	94,0	1000V	145
117.1340	16	26,0	28,0	94,0	1000V	160
117.1341	17	26,0	29,0	94,0	1000V	180
117.1342	18	26,0	30,0	94,0	1000V	190
117.1343	19	26,0	30,5	94,0	1000V	210
117.1344	21	26,0	35,0	94,0	1000V	215
117.1345	22	26,0	35,5	94,0	1000V	230
117.1346	23	26,0	36,0	94,0	1000V	235
117.1347	24	26,0	39,0	94,0	1000V	250
117.1348	27	26,0	42,0	94,0	1000V	390
117.1349	30	26,0	46,5	94,0	1000V	420
117.1350	32	26,0	48,5	94,0	1000V	460

Socket with protective insulation, extra long

- 6 point
- In accordance to DIN 7448
- Insulated handle to IEC 60900
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Chrome vanadium

1/2"

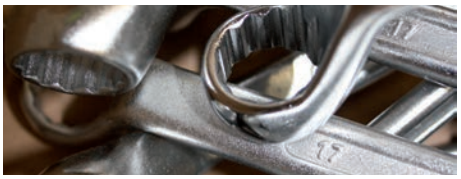
	⬢ mm	D1 mm	D2 mm	L mm	ϟ	g
117.1371	13	26,0	23,5	145,0	1000V	250
117.1372	14	26,0	25,5	145,0	1000V	260
117.1373	17	26,0	29,0	145,0	1000V	280
117.1374	19	26,0	30,5	145,0	1000V	295
117.1375	22	26,0	35,5	145,0	1000V	310
117.1376	24	26,0	29,0	145,0	1000V	330
117.1377	27	26,0	42,0	145,0	1000V	350
117.1378	30	26,0	46,5	145,0	1000V	380
117.1379	32	26,0	48,5	145,0	1000V	410

Socket with protective insulation, extra long

- 6 point
- In accordance to DIN 7448
- Insulated handle to IEC 60900
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Chrome vanadium

1/2"

	⬢ mm	D1 mm	D2 mm	L mm	ϟ	g
117.1381	13	26,0	23,5	255,0	1000V	485
117.1382	14	26,0	25,5	255,0	1000V	500
117.1383	17	26,0	29,0	255,0	1000V	530
117.1384	19	26,0	30,5	255,0	1000V	550
117.1385	22	26,0	35,5	255,0	1000V	580
117.1386	24	26,0	39,0	255,0	1000V	605
117.1387	27	26,0	42,0	255,0	1000V	635
117.1388	30	26,0	46,5	255,0	1000V	660
117.1389	32	26,0	48,5	255,0	1000V	670



Socket with protective insulation, imperial

- 12 point
- FlankTraction profile
- In accordance to DIN 7448
- Insulated handle to IEC 60900
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Chrome vanadium

1/2"

		D1 mm	D2 mm	L mm		
117.1351	5/16"	26,0	18,0	55,0	1000V	70
117.1352	3/8"	26,0	19,5	55,0	1000V	70
117.1353	7/16"	26,0	21,0	55,0	1000V	75
117.1354	15/32"	26,0	21,5	55,0	1000V	75
117.1355	1/2"	26,0	24,5	55,0	1000V	75
117.1356	9/16"	26,0	25,0	55,0	1000V	80
117.1357	5/8"	26,0	26,5	55,0	1000V	85
117.1358	11/16"	26,0	29,0	55,0	1000V	90
117.1359	25/32"	26,0	29,5	55,0	1000V	85
117.1361	3/4"	26,0	30,0	55,0	1000V	100
117.1362	13/16"	26,0	34,5	55,0	1000V	110
117.1363	7/8"	26,0	35,5	59,0	1000V	120
117.1364	15/16"	26,0	38,0	59,0	1000V	140
117.1368	1"	26,0	39,5	59,0	1000V	175
117.1369	1.1/8"	26,0	45,0	59,0	1000V	190
117.1367	1.1/4"	26,0	49,0	59,0	1000V	280

Torx E socket with protective insulation

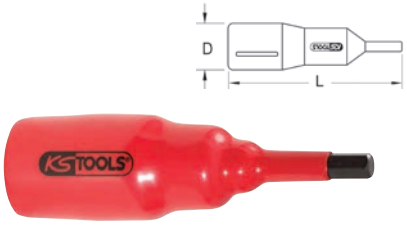
- Torx E
- Insulated handle to IEC 60900
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- For manual operation
- Chrome vanadium

1/2"

		D1 mm	D2 mm	L mm		
117.2353	E10	23,0	17,0	55,0	1000V	70
117.2354	E11	23,0	20,0	55,0	1000V	70
117.2355	E12	23,0	20,0	55,0	1000V	75
117.2356	E14	23,0	21,0	55,0	1000V	80
117.2357	E16	23,0	24,0	55,0	1000V	85
117.2358	E18	23,0	26,0	55,0	1000V	88
117.2359	E20	23,0	28,0	55,0	1000V	90
117.2361	E22	23,0	29,0	55,0	1000V	100
117.2362	E24	23,0	32,0	55,0	1000V	100

Bit socket with protective insulation for hexagon socket screws

- Hexagon socket
- Insulated handle to IEC 60900
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Burnished
- Chrome vanadium



1/2"

	mm	D mm	L mm		
117.1151	4	26,0	95,0	1000V	80
117.1152	5	26,0	95,0		80
117.1153	6	26,0	95,0		85
117.1154	8	26,0	95,0		95
117.1155	10	26,0	95,0	1000V	105
117.1156	12	26,0	95,0	1000V	125
117.1157	14	26,0	95,0	1000V	170
117.1158	17	26,0	95,0	1000V	185
117.1159	19	26,0	95,0	1000V	195

Bit socket with protective insulation for hexagon socket screws, long

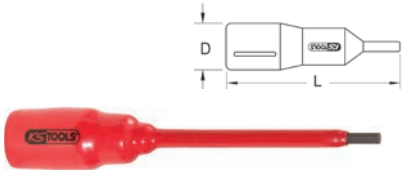
- Hexagon socket
- Insulated handle to IEC 60900
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Burnished
- Chrome vanadium

1/2"

	mm	D mm	L mm		
117.1161	4	26,0	118,0	1000V	95
117.1162	5	26,0	118,0	1000V	100
117.1163	6	26,0	118,0	1000V	100
117.1164	8	26,0	118,0	1000V	110
117.1165	10	26,0	118,0	1000V	110
117.1166	12	26,0	118,0	1000V	160

Bit socket with protective insulation for hexagon socket screws, extra long

- Hexagon socket
- Insulated handle to IEC 60900
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Burnished
- Chrome vanadium



1/2"

	mm	D mm	L mm		
117.1171	5	26,0	156,0	1000V	110
117.1172	6	26,0	156,0	1000V	110
117.1173	5	26,0	267,0	1000V	125
117.1174	6	26,0	267,0	1000V	145
117.1175	8	26,0	267,0	1000V	155
117.1176	10	26,0	267,0	1000V	190

Bit socket with protective insulation for Torx screws, short

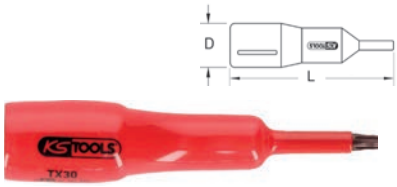
- Torx
- Insulated handle to IEC 60900
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Burnished
- Chrome vanadium

1/2"

		D mm	L mm		
117.2434	T20	25,0	75,0	1000V	70
117.2435	T25	25,0	75,0	1000V	75
117.2436	T27	25,0	75,0	1000V	77
117.2437	T30	25,0	75,0	1000V	78
117.2438	T40	25,0	75,0	1000V	80
117.2439	T45	25,0	75,0	1000V	84
117.2441	T50	25,0	75,0	1000V	90
117.2442	T55	25,0	75,0	1000V	94
117.2443	T60	25,0	75,0	1000V	98

Bit socket with protective insulation for Torx screws, long

- Torx
- Insulated handle to IEC 60900
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Burnished
- Chrome vanadium

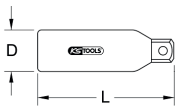


1/2"

		D mm	L mm		
117.2444	T20	25,0	100,0	1000V	88
117.2445	T25	25,0	100,0	1000V	92
117.2446	T27	25,0	100,0	1000V	94
117.2447	T30	25,0	100,0	1000V	95
117.2448	T40	25,0	100,0	1000V	98
117.2449	T45	25,0	100,0	1000V	100
117.2451	T50	25,0	100,0	1000V	100
117.2452	T55	25,0	100,0	1000V	106
117.2453	T60	25,0	100,0	1000V	114

Reducing adapter with protective insulation

- In accordance to DIN 3123 / ISO 3316
- Insulated handle to IEC 60900
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Matt chrome
- Chrome vanadium



1/2" 3/8"

	□	■	D mm	L mm	⚡	g
117.1285	1/2"	3/8"	20,0	75,0	1000V	220

1/2" SETS WITH PROTECTIVE INSULATION

Socket-set with insulated tools

- Insulated handle to IEC 60900
- Chrome vanadium
- In durable plastic storage case

1/2"

			kg
117.1883	15 pcs	Socket-set with insulated tools	3,99

1 x		1/2"
2 x		1/2": 125 - 250 mm
1 x		1/2"
8 x		1/2": 10 - 12 - 13 - 14 - 17 - 19 - 22 24 mm
3 x		1/2": 5 - 6 - 8 mm

Socket-set with insulated tools

- In accordance to DIN 7448 / 7434 / 7449
- Insulated handle to IEC 60900
- Square drive adaptor to DIN 3120
- In durable plastic storage case

1/2"

			kg
117.0600	9 pcs	Socket-set with insulated tools	2,07

1 x		270 mm
7 x		10 - 13 - 14 - 16 - 17 - 19 - 21 mm
1 x		125 mm

Socket-set with insulated tools

- Insulated handle to IEC 60900
- In durable plastic storage case

1/2"

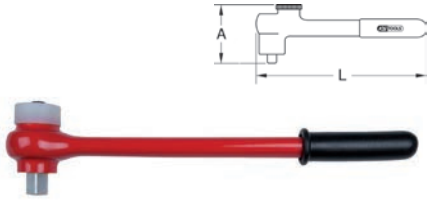
			kg
117.1860	16 pcs	Socket-set with insulated tools	4,50

1 x		1/2"
2 x		1/2": 125 - 250 mm
1 x		1/2"
8 x		1/2": 10 - 12 - 13 - 14 - 17 - 19 - 22 - 24 mm
3 x		1/2": 5 - 6 - 8 mm
1 x		3,5 mm

3/4" RANGE WITH PROTECTIVE INSULATION

Reversible ratchet with protective insulation

- Square drive adaptor to DIN 3120 / 1174 with ball lock
- In accordance to DIN 7449
- Insulated handle to IEC 60900
- With reversible 32-teeth ratchet head
- With frictional contact square drive with locking device
- Chrome vanadium



3/4"

	■	A mm	L mm	⚡	kg
117.1187	3/4"	111,5	500,0	1000V	2,00

socket with protective insulation

- 6 point
- In accordance to DIN 7448
- Insulated handle to IEC 60900
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Chrome vanadium

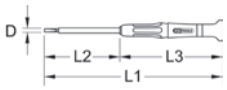
3/4"

	⬢ mm	D1 mm	D2 mm	L mm	⚡	g
117.3930	19	38,0	26,0	68,0	1000V	200
117.3931	21	38,0	39,0	68,0	1000V	210
117.3932	22	38,0	40,0	70,0	1000V	230
117.3933	24	38,0	43,0	70,0	1000V	230
117.3934	26	38,0	45,0	72,0	1000V	240
117.3935	27	38,0	47,0	72,0	1000V	270
117.3936	28	38,0	48,0	72,0	1000V	290
117.3937	30	38,0	50,0	74,0	1000V	310
117.3938	32	38,0	52,0	74,0	1000V	320
117.3939	36	38,0	58,0	82,0	1000V	460
117.3940	38	38,0	60,0	82,0	1000V	500
117.3941	41	38,0	62,0	82,0	1000V	540
117.3942	46	38,0	70,0	82,0	1000V	630
117.3943	50	38,0	75,0	82,0	1000V	750
117.3944	55	38,0	82,0	88,0	1000V	860
117.3945	60	38,0	90,0	88,0	1000V	910

SCREWDRIVERS WITH PROTECTIVE INSULATION

Precision screwdriver with protective insulation for slotted screws

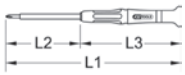
- Slotted
- Insulated to IEC 60900
- Twist end cap
- Colour coding
- Hardened blade
- Burnished tip
- Blades made from special steel



	D mm	L1 mm	L2 mm	L3 mm		
500.6138	1,5	132,0	40,0	92,0		16
500.6139	1,8	132,0	40,0	92,0		16
500.6140	2,0	132,0	40,0	92,0		16
500.6141	2,5	152,0	60,0	92,0		18
500.6142	3,0	152,0	60,0	92,0		21
500.6143	3,5	152,0	60,0	92,0		21

Precision screwdriver with protective insulation for Phillips screws PH

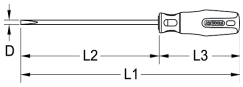
- PH
- Insulated to IEC 60900
- Twist end cap
- Color coding
- Hardened blade
- Burnished tip
- Blades made from special steel



		L1 mm	L2 mm	L3 mm		
500.6136	PH 00	132,0	40,0	92,0		16
500.6137	PH 0	152,0	60,0	92,0		16
500.6144	PH 1	152,0	60,0	92,0		21

ERGOTORQUE® VDE screwdriver for slotted screws

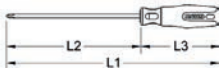
- Slotted
- In accordance to DIN 5264 / DIN ISO 2380
- Insulated to IEC 60900
- Two component handle
- Burnished
- S2 special steel



	D mm	L1 mm	L2 mm	L3 mm		
117.0541	2	140,0	60,0	80,0		30
117.0502	2,5	155,0	75,0	80,0		32
117.0504	3,0	180,0	100,0	80,0		35
117.0506	3,5	180,0	100,0	80,0		38
117.0508	4,0	180,0	100,0	80,0		41
117.0542	4,5	230,0	125,0	105,0		92
117.0543	4,5	290,0	175,0	115,0		164
117.0544	4,5	315,0	200,0	115,0		230
117.0512	5,5	230,0	125,0	105,0		92
117.0545	5,5	290,0	175,0	115,0		164
117.0514	6,5	255,0	150,0	105,0		111
117.0516	8,0	290,0	175,0	115,0		164
117.0518	10,0	315,0	200,0	115,0		230

ERGOTORQUE® VDE screwdriver for phillips screws PH

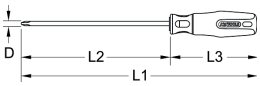
- PH
- In accordance to DIN 7438 / DIN ISO 8764
- Insulated to IEC 60900
- Two component handle
- Burnished
- S2 special steel



		L1 mm	L2 mm	L3 mm		
117.0522	PH 0	140,0	60,0	80,0		32
117.0524	PH 1	185,0	80,0	105,0		38
117.1521	PH 1	265,0	150,0	115,0		152
117.0526	PH 2	205,0	100,0	105,0		95
117.1523	PH 2	315,0	200,0	115,0		230
117.0528	PH 3	265,0	150,0	115,0		152
117.1526	PH 4	315,0	200,0	115,0		230

ERGOTORQUE® VDE screwdriver for pozidriv screws PZ

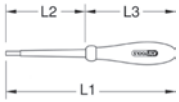
- PZ
- In accordance to DIN 7438 / DIN ISO 8764
- Insulated to IEC 60900
- Two component handle
- Burnished
- S2 special steel



		L1 mm	L2 mm	L3 mm		
117.0532	PZ 0	140,0	60,0	80,0		32
117.0534	PZ 1	185,0	80,0	105,0		38
117.1533	PZ 1	265,0	150,0	115,0		152
117.0536	PZ 2	205,0	100,0	105,0		95
117.1534	PZ 2	315,0	200,0	115,0		230
117.0538	PZ 3	265,0	150,0	115,0		152
117.1535	PZ 4	315,0	200,0	115,0		230

Hexagon socket screwdriver with protective insulation

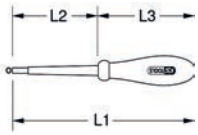
- Hexagon socket
- In accordance to DIN 7439
- Insulated to IEC 60900
- Burnished
- Chrome vanadium



	mm	L1 mm	L2 mm	L3 mm		
117.1631	1,5	156,0	75,0	81,0	1000V	16
117.1632	2,0	156,0	75,0	81,0	1000V	18
117.1633	2,5	181,0	100,0	81,0	1000V	34
117.1634	3,0	181,0	100,0	81,0		36
117.1635	4,0	231,0	125,0	106,0		43
117.1636	5,0	256,0	150,0	106,0		67
117.1637	6,0	291,0	175,0	116,0		83
117.1638	8,0	316,0	200,0	116,0		116

Insulated screwdriver for internal Torx screws

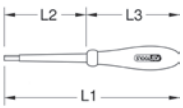
- Torx
- Insulated to IEC 60900
- Burnished
- Special tool steel



		L1 mm	L2 mm	L3 mm		
117.2235	T5	140,0	60,0	80,0	1000V	32
117.2236	T6	140,0	60,0	80,0	1000V	33
117.2237	T7	140,0	60,0	80,0	1000V	33
117.2238	T8	140,0	60,0	80,0	1000V	35
117.2239	T9	140,0	60,0	80,0	1000V	36
117.0551	T10	170,0	80,0	90,0	1000V	27
117.0552	T15	170,0	80,0	90,0	1000V	28
117.0553	T20	190,0	100,0	90,0	1000V	36
117.0554	T25	190,0	100,0	90,0	1000V	61
117.0555	T27	230,0	125,0	105,0	1000V	86
117.0556	T30	205,0	115,0	90,0	1000V	93
117.0557	T40	290,0	175,0	115,0	1000V	155
117.0558	T45	290,0	175,0	115,0	1000V	163

ERGOTORQUE VDE Screwdriver for square socket screws

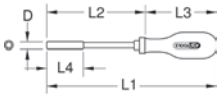
- Internal square
- In accordance to DIN 7438 / DIN ISO 8764
- Insulated to IEC 60900
- Two component handle
- Burnished
- S2 special steel



		L1 mm	L2 mm	L3 mm		
117.0591	#1	160,0	80,0	80,0	1000V	27
117.0592	#1	255,0	150,0	105,0	1000V	92
117.0593	#2	180,0	100,0	80,0	1000V	41
117.0594	#2	315,0	200,0	115,0	1000V	230
117.0595	#3	265,0	150,0	115,0	1000V	115

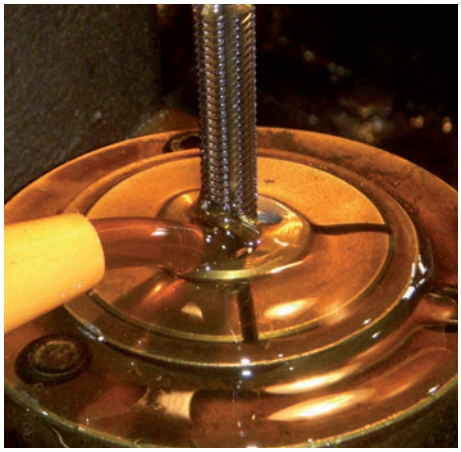
Bit screwdriver with protective insulation and magazine

- Insulated to IEC 60900
- Magnetic
- For bits to DIN 3126 - C 6,3
- Chrome vanadium



1/4"

		D mm	L1 mm	L2 mm	L3 mm	L4 mm		
117.1625	1/4"	12,5	230,0	120,0	110,0	50,0	1000 V	170



SCREWDRIVER SETS WITH PROTECTIVE INSULATION

Precision screwdriver set with protective insulation

- Insulated to IEC 60900
- Twist end cap
- Color coding
- Hardened blade
- Burnished tip
- Blade made of chrome vanadium
- In durable ABS storage case

500.6165	7 pcs	Precision screwdriver set with protective insulation	310
2 x		PH 0 - PH 00	
5 x		1,5 - 1,8 - 2,0 - 2,5 - 3,0 mm	

ERGOTORQUE® VDE screwdriver set

- In accordance to DIN 5264 / 7437 / 7438 / 8764
- Insulated to IEC 60900
- Two component handle
- Burnished
- S2 special steel

117.0540	5 pcs	ERGOTORQUE® VDE screwdriver set	200
1 x		PH1	
3 x		2,5 - 4,0 - 5,5 mm	
1 x		3,0 mm	

ERGOTORQUE® VDE screwdriver set

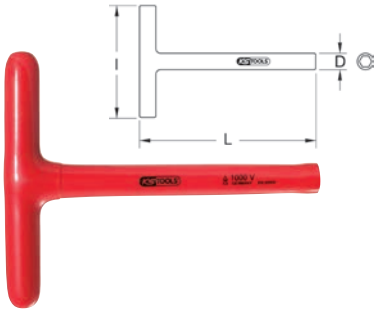
- In accordance to DIN 5264 / 7437 / 7438 / 8764
- Insulated to IEC 60900
- Two component handle
- Burnished
- Special tool steel

117.0550	8 pcs	ERGOTORQUE® VDE screwdriver set	430
3 x		PH0 - PH1 - PH2	
4 x		2,5 - 4,0 - 5,5 - 6,5 mm	
1 x		3,0 mm	

KEY WRENCHES WITH PROTECTIVE INSULATION

T-handle socket wrench with protective insulation

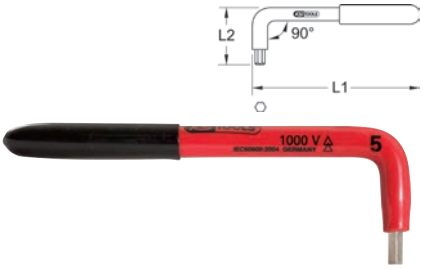
- Insulated to IEC 60900
- Magnetic
- For bits to DIN 3126 - C 6,3
- Chrome vanadium



		D mm	L mm	l mm		
117.1743	1/4"	14,0	120,0	110,0	1000V	166
117.1744	1/4"	14,0	160,0	110,0	1000V	242
117.1745	1/4"	14,0	250,0	165,0	1000V	310

Allen key with protective insulation

- Hexagon socket
- In accordance to DIN 7439
- Insulated handle to IEC 60900
- Specially for cable branch clamp ring
- Matt chrome
- Chrome vanadium



	mm	L1 mm	L2 mm		
117.1601	3	130,0	24,0	1000V	20
117.1602	4	120,0	40,0	1000V	25
117.1603	5	140,0	47,0	1000V	45
117.1604	6	140,0	50,0	1000V	60
117.1605	8	150,0	50,0	1000V	110
117.1606	10	235,0	51,0	1000V	230
117.1607	12	265,0	60,0	1000V	350

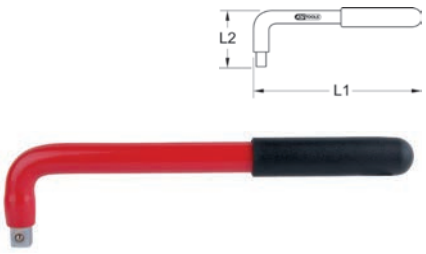
Allen key with protective insulation

- Hexagon socket
- In accordance to DIN 7439
- Insulated handle to IEC 60900
- Specially for cable branch clamp ring
- Matt chrome
- Chrome vanadium

		L1 mm	L2 mm		
117.2484	1/8"	105,0	34,0	1000V	20
117.2485	5/32"	105,0	38,0	1000V	22
117.2486	3/16"	135,0	41,0	1000V	35
117.2487	7/32"	140,0	46,0	1000V	50
117.2488	1/4"	140,0	47,0	1000V	65
117.2489	5/16"	150,0	51,0	1000V	100
117.2491	3/8"	240,0	56,0	1000V	230
117.2492	1/2"	245,0	59,0	1000V	350

Angle socket wrench with protective insulation

- Square drive adaptor to DIN 3120 / 1174 with ball lock
- In accordance to DIN 7436
- Insulated handle to IEC 60900
- With screw adjustment
- Chrome vanadium

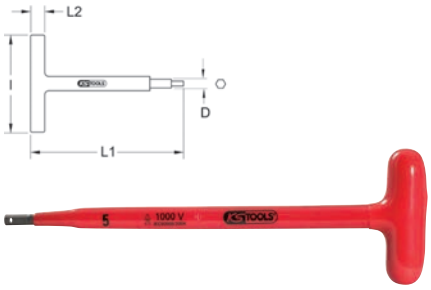


1/2"

	■	L1 mm	L2 mm		
117.1403	1/2"	280,0	70,0	1000V	470

T-handle Allen key with protective insulation

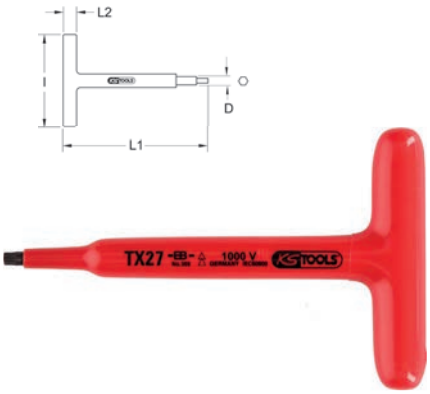
- Hexagon socket
- Insulated handle to IEC 60900
- Extremly versatile
- Burnished
- Chrome vanadium



	⬢ mm	l mm	D mm	L1 mm	L2 mm		
117.1671	3	65,0	5,0	120,0	17,5	1000V	80
117.1673	4	65,0	10,0	120,0	19,0	1000V	85
117.1674	4	104,0	15,0	160,0	22,0	GS	145
117.1675	4	64,0	10,0	200,0	18,0	1000V	150
117.1676	4	94,0	13,0	250,0	19,0	1000V	168
117.1677	5	65,0	11,0	120,0	20,0	1000V	85
117.1678	5	105,0	15,0	160,0	21,0	GS	250
117.1679	5	65,0	10,0	200,0	18,0	1000V	150
117.1681	5	105,0	15,0	250,0	20,0	1000V	168
117.1682	6	90,0	11,0	120,0	20,0	1000V	110
117.1683	6	105,0	15,0	160,0	21,0	GS	250
117.1684	6	65,0	11,0	200,0	19,0	1000V	150
117.1742	6	105,0	8,0	250,0	20,0	1000V	307
117.1685	8	105,0	15,0	160,0	21,0	GS	260
117.1686	8	160,0	13,0	200,0	22,0	1000V	325
117.1687	8	100,0	17,0	250,0	22,0	1000V	360
117.1688	10	160,0	15,0	200,0	20,0	1000V	390
117.1689	10	160,0	15,0	250,0	20,0	1000V	420
117.1691	10	160,0	15,0	300,0	20,0	1000V	450
117.1692	11	160,0	15,0	200,0	20,0	1000V	400
117.1693	12	160,0	16,0	200,0	20,0	1000V	420
117.1694	13	160,0	16,0	200,0	21,0	1000V	450
117.1695	14	160,0	17,0	200,0	21,0	1000V	490
117.1696	17	160,0	20,0	200,0	21,0	1000V	640

T-Handle Torx L-key with protective insulation

- Insulated handle to IEC 60900
- Extremly versatile
- Burnished
- Chrome vanadium

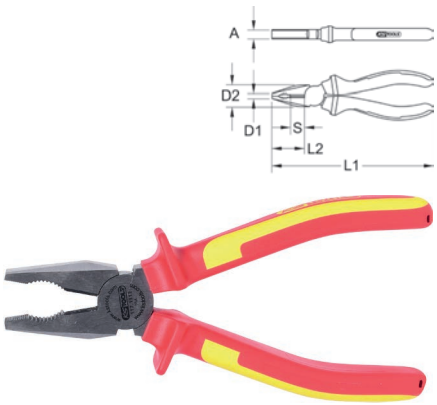


		l mm	D mm	L1 mm	L2 mm		
117.2412	T10	63,0	4,0	120,0	13,0	1000V	85
117.2413	T15	63,0	4,0	120,0	13,0	1000V	90
117.2414	T20	103,0	5,0	120,0	13,0	1000V	90
117.2415	T25	103,0	5,0	160,0	15,0	1000V	135
117.2416	T27	103,0	6,0	160,0	15,0	1000V	150
117.2417	T30	103,0	6,0	160,0	15,0	1000V	160
117.2418	T40	103,0	7,0	200,0	15,0	1000V	210
117.2419	T45	103,0	7,0	200,0	15,0	1000V	330
117.2421	T50	103,0	8,0	200,0	15,0	1000V	410

PLIERS WITH PROTECTIVE INSULATION

ERGOTORQUE® VDE combination pliers

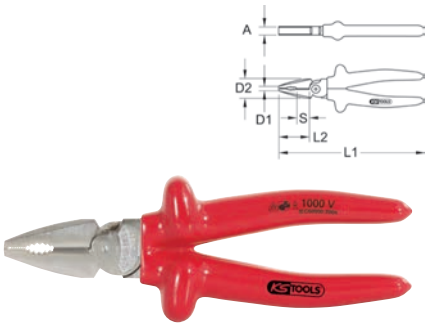
- In accordance to DIN ISO 5748
- Wrap around insulation to IEC 60900
- Two component handle
- Suitable for wire
- Induction-hardened precision cutting
- Matt chrome
- Special tool steel



	A mm	D1 mm	D2 mm	L1 mm	L2 mm	S mm		
117.1111	10,0	6,0	24,0	170,0	35,0	2,4	GS	310
117.1112	11,0	7,0	27,0	185,0	38,5	2,5	GS	380
117.1113	12,0	7,0	30,0	210,0	42,5	3,0	GS	400

1000V high leverage combination pliers

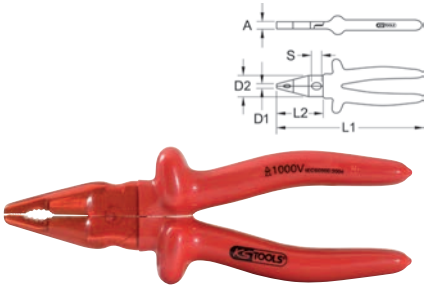
- In accordance to DIN ISO 5746
- Insulated handle to IEC 60900
- Also suitable for hard wire
- Extra heavy execution
- Induction-hardened precision cutting
- Matt chrome
- Special tool steel



	A mm	D1 mm	D2 mm	L1 mm	L2 mm	S mm		
117.1278	8,5	6,0	25,0	160,0	36,5	13,0	1000V	230
117.1275	11,0	7,5	28,0	185,0	40,0	16,5	GS	290
117.1276	11,5	8,0	28,0	205,0	43,0	18,0	GS	390
117.1279	13,0	8,0	35,0	250,0	53,0	21,5	1000V	570

1000V combination pliers

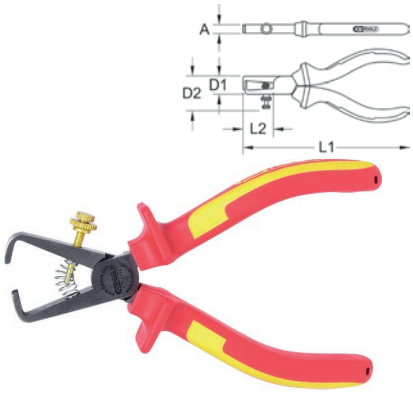
- In accordance to DIN ISO 5244
- Insulated handle to IEC 60900
- With coated working head
- Also suitable for hard wire
- Extra heavy execution
- Induction-hardened precision cutting
- Matt chrome
- Special tool steel



	A mm	D1 mm	D2 mm	L1 mm	L2 mm	S mm		
117.1711	16,0	8,0	30,0	185,0	38,0	16,0	1000V	280
117.1712	16,0	8,5	32,5	205,0	44,0	18,5	1000V	350

ERGOTORQUE® VDE cable stripper

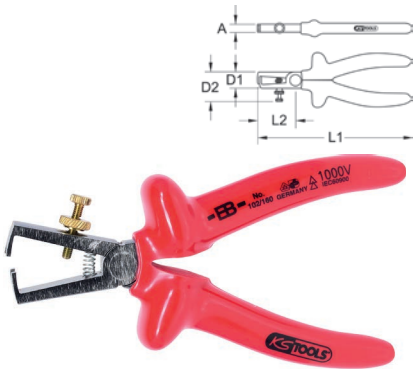
- In accordance to DIN ISO 5232
- Wrap around insulation to IEC 60900
- Locking jaw opening
- Adjusting screw and spring
- Two component handle
- For wires from 0,8 - 6,0 mm²
- Matt chrome
- Special tool steel



	A mm	D1 mm	D2 mm	L1 mm	L2 mm		
117.1114	10,0	17,5	31,5	160,0	36,0	GS	210

1000V wire strippers

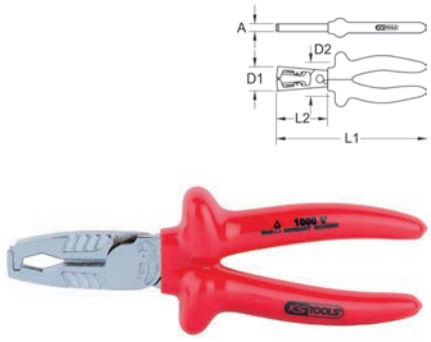
- In accordance to DIN ISO 5232
- Insulated handle to IEC 60900
- Locking jaw opening
- Adjusting screw and spring
- For wires from 0,8 - 6,0 mm²
- Matt chrome
- Special tool steel



	A mm	D1 mm	D2 mm	L1 mm	L2 mm		
117.1271	9,5	18,5	31,5	160,0	44,0		180

1000V wire strippers

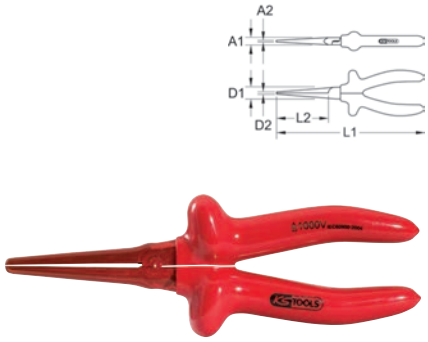
- Insulated handle to IEC 60900
- Multifunctional wire strippers
- Self-adjusting
- With replaceable knives
- For wires from 0,5 - 5,0 mm²
- Cutting holes for the separation of cables and wires
- Matt chrome
- Special tool steel



	A mm	D1 mm	D2 mm	L1 mm	L2 mm		
117.1225	10,0	24,0	40,0	185,0	61,0	1000V	260

1000V drawing pliers

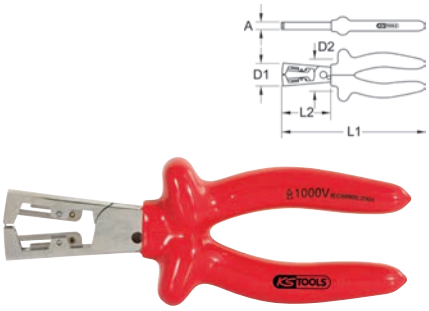
- In accordance to DIN ISO 5745
- Insulated handle to IEC 60900
- With coated working head
- With flat and smooth gripping jaws
- Rounded edges
- Matt chrome
- Special tool steel



	A1 mm	A2 mm	D1 mm	D2 mm	L1 mm	L2 mm		
117.1714	7,5	6,5	19,0	4,5	200,0	65,0	1000V	220

1000V wire strippers

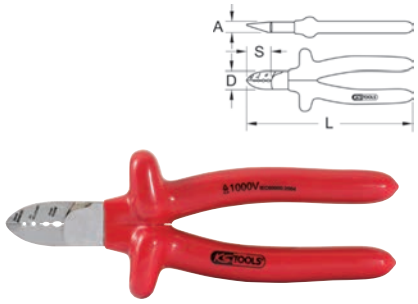
- Insulated handle to IEC 60900
- Self-adjusting
- With replaceable knives
- For wires from 0,5 - 5,0 mm²
- Cutting holes for the separation of cables and wires
- Matt chrome
- Special tool steel



	A mm	D1 mm	D2 mm	L1 mm	L2 mm	Replacement blades	
117.1272	10,5	28,5	47,5	160,0	20,0	117.1258	220

1000V electrical side cutters

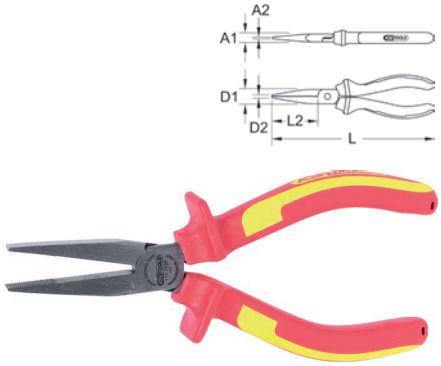
- Insulated handle to DIN / EN 60900
- For cutting, stripping and crimping
- Wire stippers for wires from 1,5 mm² + 2,5 mm²
- For crimping of insulated cable lugs with Ø 1,5 mm + 2,5 mm
- Induction-hardened precision cutting
- Matt chrome
- Special tool steel



	A mm	D mm	L mm	S mm		
117.1281	10,5	22,0	175,0	27,0	1000V	320

ERGOTORQUE® VDE flat pliers

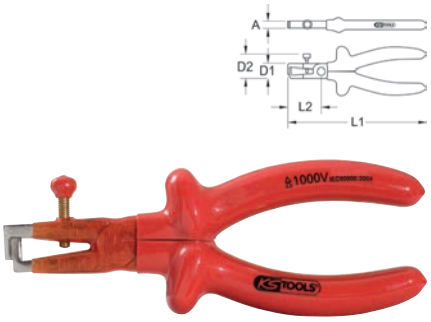
- In accordance to DIN ISO 5745
- Wrap around insulation to IEC 60900
- Two component handle
- Serrated execution
- Matt chrome
- Special tool steel



	A1 mm	A2 mm	D1 mm	D2 mm	L1 mm	L2 mm		
117.1125	9,0	3,8	18,0	3,0	170,0	49,5		210

1000V wire strippers

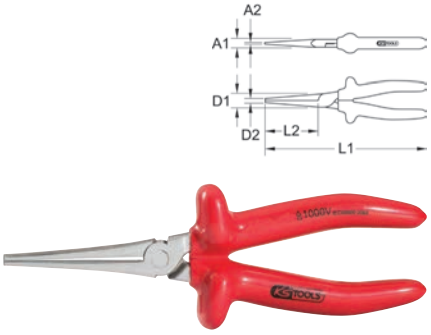
- In accordance to DIN ISO 5232
- Insulated handle to IEC 60900
- With coated working head
- Locking jaw opening
- Adjusting screw and spring
- For wires from 0,8 - 6,0 mm²
- Matt chrome
- Special tool steel



	A mm	D1 mm	D2 mm	L1 mm	L2 mm		
117.1713	11,0	18,5	20,0	160,0	34,0	1000V	180

1000V drawing pliers

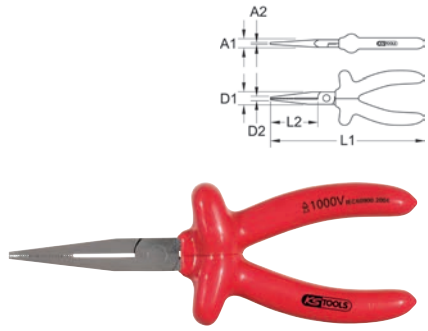
- In accordance to DIN ISO 5745
- Insulated handle to IEC 60900
- With flat and smooth gripping jaws
- Rounded edges
- Matt chrome
- Special tool steel



	A1 mm	A2 mm	D1 mm	D2 mm	L1 mm	L2 mm	
117.1280	7,5	6,5	17,0	4,5	200,0	65,0	220

1000V flat pliers

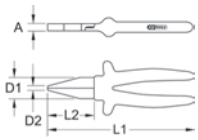
- In accordance to DIN ISO 5745
- Insulated handle to IEC 60900
- With long jaws
- Serrated execution
- Matt chrome
- Special tool steel



	A1 mm	A2 mm	D1 mm	D2 mm	L1 mm	L2 mm		
117.1289	8,5	5,5	15,0	3,5	160,0	50,0	1000V	210

1000V flat pliers

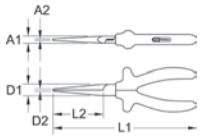
- In accordance to DIN ISO 5745
- Insulated handle to IEC 60900
- Short and powerful jaws
- Serrated execution
- Matt chrome
- Special tool steel



	A mm	D1 mm	D2 mm	L1 mm	L2 mm		
117.1298	9,0	17,0	4,5	160,0	34,0		200

1000V long jaw flat pliers

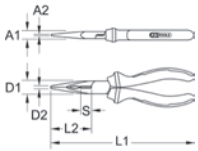
- In accordance to DIN ISO 5745
- Insulated handle to IEC 60900
- With coated working head
- With long jaws
- Matt chrome
- Special tool steel



	A1 mm	A2 mm	D1 mm	D2 mm	L1 mm	L2 mm		
117.1716	13,0	7,5	18,5	4,5	160,0	50,0	1000V	130

ERGOTORQUE® VDE long nosed pliers

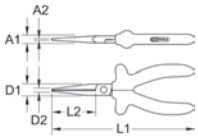
- In accordance to DIN ISO 5745
- Wrap around insulation to IEC 60900
- Two component handle
- Long jaws
- Suitable for medium and hard wire
- Induction-hardened precision cutting
- Matt chrome
- Special tool steel



	A1 mm	A2 mm	D1 mm	D2 mm	L1 mm	L2 mm	S mm		
117.1117	9,0	2,9	18,0	3,2	165,0	48,0	2,5		177
117.1118	11,0	3,5	22,0	4,5	215,0	69,0	2,5		291

1000V flat pliers

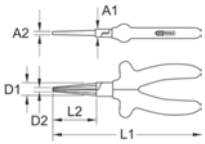
- In accordance to DIN ISO 5745
- Insulated handle to IEC 60900
- With coated working head
- Short and powerful jaws
- Serrated execution
- Matt chrome
- Special tool steel



	A1 mm	A2 mm	D1 mm	D2 mm	L1 mm	L2 mm		
117.1715	11,0	11,0	19,0	5,0	160,0	36,0	1000V	190

1000V long jaw round pliers

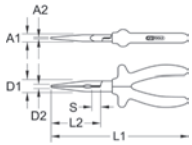
- In accordance to DIN ISO 5745
- Insulated handle to IEC 60900
- With round and long jaws
- With smooth tips
- Serrated execution
- Matt chrome
- Special tool steel



	A1 mm	A2 mm	D1 mm	D2 mm	L1 mm	L2 mm		
117.1290	9,0	2,5	14,0	5,5	160,0	47,5	1000V	205

1000V long nosed pliers

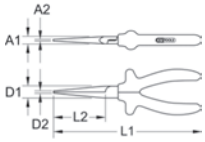
- In accordance to DIN ISO 5745
- Insulated handle to IEC 60900
- Long jaws
- For soft and medium wire
- Induction-hardened precision cutting
- Matt chrome
- Special tool steel



	A1 mm	A2 mm	D1 mm	D2 mm	L1 mm	L2 mm		
117.1291	9,5	2,5	16,0	4,0	200,0	74,0		230
117.1293	9,0	2,0	15,5	3,0	160,0	55,0	1000V	170

1000V long jaw flat pliers

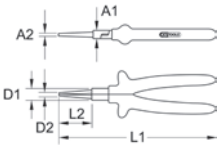
- In accordance to DIN ISO 5745
- Insulated handle to IEC 60900
- With long jaws
- Matt chrome
- Special tool steel



	A1 mm	A2 mm	D1 mm	D2 mm	L1 mm	L2 mm		
117.1299	7,0	8,5	16,0	4,0	160,0	51,0	1000V	210

1000V round pliers

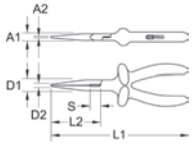
- In accordance to DIN ISO 5745
- Insulated handle to IEC 60900
- With round, short and strong jaws
- With smooth tips
- Serrated execution
- Matt chrome
- Special tool steel



	A1 mm	A2 mm	D1 mm	D2 mm	L1 mm	L2 mm		
117.1297	10,0	3,5	14,0	6,0	160,0	33,0		180

1000V long nosed pliers

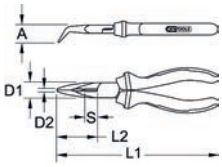
- In accordance to DIN ISO 5745
- Insulated handle to IEC 60900
- With coated working head
- Long jaws
- For soft and medium wire
- Induction-hardened precision cutting
- Matt chrome
- Special tool steel



	A1 mm	A2 mm	D1 mm	D2 mm	L1 mm	L2 mm	S mm		
117.1717	10,0	3,5	17,5	4,0	160,0	55,0	10,0	1000V	180
117.1718	10,5	3,5	18,0	5,0	200,0	74,0	14,0	1000V	230

ERGOTORQUE® VDE long nosed pliers, curved

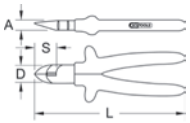
- In accordance to DIN ISO 5745
- Wrap around insulation to IEC 60900
- Two component handle
- Curved jaws
- For soft and medium wire
- Induction-hardened precision cutting
- Matt chrome
- Special tool steel



	A mm	D1 mm	D2 mm	L1 mm	L2 mm	S mm		
117.1120	9,0	18,0	3,2	165,0	48,0	2,5		210
117.1121	11,0	22,0	5,0	205,0	70,0	2,5		310

1000V lead sealing pliers

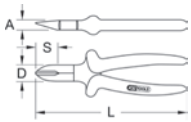
- Insulated handle to IEC 60900
- Combined with side cutter
- Induction-hardened precision cutting
- Matt chrome
- Special tool steel



	A mm	D mm	L mm	S mm		
117.1268	10,0	20,0	160,0	15,0	1000V	220

1000V side cutters

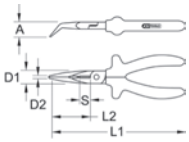
- In accordance to DIN ISO 5232
- Insulated handle to IEC 60900
- Working head coated
- For soft and hard wire
- Induction-hardened precision cutting
- Matt chrome
- Special tool steel



	A mm	D mm	L mm	S mm		
117.1721	26,0	25,5	160,0	22,0	1000V	230
117.1722	27,0	27,0	180,0	25,0	1000V	330

1000V long nosed pliers, curved

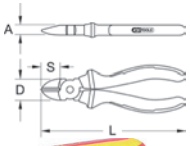
- In accordance to DIN ISO 5745
- Insulated handle to IEC 60900
- Curved jaws
- For soft and medium wire
- Induction-hardened precision cutting
- Matt chrome
- Special tool steel



	A mm	D1 mm	D2 mm	L1 mm	L2 mm	S mm		
117.1292	9,5	17,0	4,0	200,0	78,0	14,0		210
117.1294	9,5	15,5	4,0	160,0	51,0	11,0	1000V	170

ERGOTORQUE® VDE diagonal side cutters

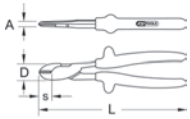
- In accordance to DIN ISO 5749
- Wrap around insulation to IEC 60900
- Two component handle
- For soft and medium wire
- Induction-hardened precision cutting
- Matt chrome
- Special tool steel



	A mm	D mm	L mm	S mm		
117.1119	10,0	20,0	160,0	20,0		210

1000V high leverage side cutter

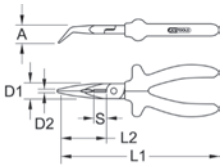
- In accordance to DIN ISO 5749
- Insulated handle to IEC 60900
- For all types of wire
- Especially for overhead line construction
- Lower power usage
- 40% power saving
- Induction-hardened precision cutting
- Matt chrome
- Special tool steel



	A mm	D mm	L mm	S mm		
117.1234	12,0	28,5	200,0	25,0	1000V	380

1000V long nosed pliers, curved

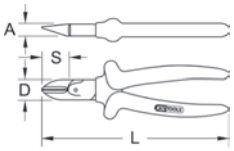
- In accordance to DIN ISO 5745
- Insulated handle to IEC 60900
- With coated working head
- Curved jaws
- For soft and medium wire
- Induction-hardened precision cutting
- Matt chrome
- Special tool steel



	A mm	D1 mm	D2 mm	L1 mm	L2 mm	S mm		
117.1719	12,0	5,0	19,0	200,0	79,0	14,0	1000V	220

1000V side cutters

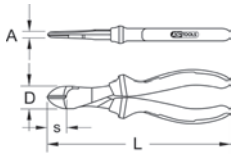
- In accordance to DIN ISO 5232
- Insulated handle to IEC 60900
- For soft and hard wire
- Induction-hardened precision cutting
- Matt chrome
- Special tool steel



	A mm	D mm	L mm	S mm		
117.1277	11,0	21,5	160,0	24,0		270
117.1288	11,0	21,5	180,0	24,0		330

ERGOTORQUE® VDE high leverage side cutters

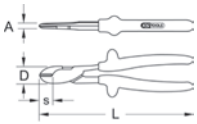
- In accordance to DIN ISO 5749
- Wrap around insulation to IEC 60900
- Two component handle
- For all types of wire
- Lower power usage
- Induction-hardened precision cutting
- Matt chrome
- Special tool steel



	A mm	D mm	L mm	S mm		
117.1115	12,0	30,0	190,0	22,5		330
117.1116	12,5	30,0	205,0	22,5		370

1000V high leverage side cutter

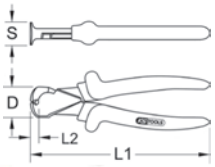
- In accordance to DIN ISO 5749
- Insulated handle to IEC 60900
- For all types of wire
- Especially for overhead line construction
- Lower power usage
- Induction-hardened precision cutting
- Matt chrome
- Special tool steel



	A mm	D mm	L mm	S mm		
117.1282	12,0	26,0	180,0	21,0	1000V	320
117.1283	12,5	29,0	205,0	24,0	1000V	370
117.1284	13,5	33,0	260,0	30,0		580

1000V cutting pliers

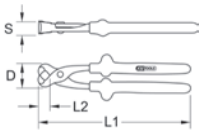
- In accordance to DIN ISO 5748
- Insulated handle to IEC 60900
- For soft and hard wire
- Induction-hardened precision cutting
- Matt chrome
- Special tool steel



	D mm	L mm	L2 mm	S mm		
117.1198	30,0	160,0	6,5	23,0	1000V	280

1000V rabitz pliers

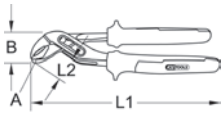
- Insulated handle to DIN / EN 60900
- For soft wire
- For the cutting and twisting of tie wire
- Induction-hardened precision cutting
- Phosphate finish
- Special tool steel



	D mm	L1 mm	L2 mm	S mm		
117.1204	36,0	250,0	16,0	25,0	1000V	480

ERGOTORQUE® VDE water pump pliers

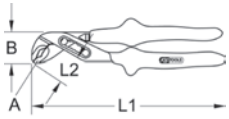
- In accordance to DIN ISO 8976
- Wrap around insulation to IEC 60900
- Two component handle
- Toothed gripping surfaces
- Substaintial through joint
- Optimum power transfer
- With grooved adjustment
- With zip fatener
- With inductively hardened handle areas
- Matt chrome
- Special tool steel



	A mm	B mm	L1 mm	L2 mm		
117.2000	33,0	42,0	240,0	32,0		420

1000V water pump pliers

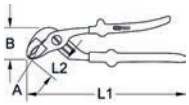
- In accordance to DIN ISO 8976
- Insulated handle to IEC 60900
- Toothed gripping surfaces
- Substaintial through joint
- Optimum power transfer
- With grooved adjustment
- With zip fatener
- With inductively hardened handle areas
- Matt chrome
- Special tool steel



	A mm	B mm	L1 mm	L2 mm		
117.1273	39,0	35,0	250,0	51,0	1000V	350
117.1274	65,0	47,0	300,0	65,0	1000V	690

1000V water pump pliers

- In accordance to DIN ISO 8976
- Insulated handle to IEC 60900
- Toothed gripping surfaces
- Heavy execution
- Through flexible head with flat-die thread rolling
- Optimum power transfer
- With zip fatener
- With inductively hardened handle areas
- Matt chrome
- Special tool steel



	A mm	B mm	L1 mm	L2 mm		
117.1207	54,0	56,0	260,0	35,0	1000V	560

PLIERS WITH TOOL SAFETY MECHANISM & PROTECTIVE INSULATION

1000V power combination pliers with safety eyelet for safety line

- In accordance to DIN ISO 5746
- integrated safety eyelet for safety line
- Insulated handle to IEC 60900
- Also suitable for hard wire
- Induction-hardened precision cutting
- Matt chrome
- Special tool steel

	A mm	D1 mm	D2 mm	L1 mm	L2 mm	S mm		
117.2201	11,5	8,0	28,0	205,0	43,0	18,0	1000V	400

1000V Wire Stripper with safety line safety eyelet

- In accordance to DIN ISO 5232
- integrated safety eyelet for safety line
- Insulated handle to IEC 60900
- Locking jaw opening
- Adjusting screw and spring
- For wires from 0,5 - 5,0 mm²
- Matt chrome
- Special tool steel

	A mm	D1 mm	D2 mm	L1 mm	L2 mm		
117.2202	9,5	18,5	31,5	160,0	44,0	1000V	190

1000V Diagonal cutter with safety eyelet for safety rope

- In accordance to DIN ISO 5232
- integrated safety eyelet for safety line
- Insulated handle to IEC 60900
- For soft and hard wire
- Induction-hardened precision cutting
- Matt chrome
- Special tool steel

	A mm	D mm	L mm	S mm		
117.2204	11,0	21,5	160,0	24,0	1000V	270

1000V flat nose pliers with safety eyelet for safety line

- In accordance to DIN ISO 5745
- integrated safety eyelet for safety line
- Insulated handle to IEC 60900
- Long jaws
- For soft and medium wire
- Induction-hardened precision cutting
- Matt chrome
- Special tool steel

	A1 mm	A2 mm	D1 mm	D2 mm	L1 mm	L2 mm		
117.2203	9,5	2,5	16,0	4,0	200,0	74,0	1000V	230

1000V Single hand cable cutter with safety eyelet for safety line

- integrated safety eyelet for safety line
- Insulated handle to IEC 60900
- For and on multi strand copper and aluminium cable
- Extremly versatile
- Suitable for wire up to 25 mm²
- Suitable for multi-strand wire up to 50 mm²
- Suitable for ultra-wire up to 70 mm²
- Not suited for steel wire and hard pulled copper cables
- Phosphate finish
- Special tool steel

	Ø mm	A mm	D mm	L mm	S mm		g
117.2206	22,0	18,0	31,0	215,0	32,0	1000V	360

1000V water pump pliers with safety eyelet for safety line

- In accordance to DIN ISO 8976
- integrated safety eyelet for safety line
- Insulated handle to IEC 60900
- Toothed gripping surfaces
- Substaintial through joint
- Optimum power transfer
- With grooved adjustment
- With zip fatener
- With inductively hardened handle areas
- Matt chrome
- Special tool steel

	A mm	B mm	L1 mm	L2 mm		g
117.2205	39,0	35,0	240,0	51,0	1000V	390

lifeline

- for attaching to trousers and tools
- easy to fasten
- ideal for work at great heights
- Universal usage
- aluminium carabiner

	Length mm	g
117.2207	480 - 1500	50

PLIERS SETS WITH PROTECTIVE INSULATION

ERGOTORQUE® VDE pliers set

- Wrap around insulation to IEC 60900
- Two component handle
- Matt chrome
- Special tool steel

			kg
117.1100	4 pcs	ERGOTORQUE® VDE pliers set	1,44
1 x		175 mm	
1 x		165 mm	
1 x		150 mm	
1 x		250 mm	

1000V pliers set

- Insulated handle to IEC 60900
- Matt chrome
- Special tool steel

			kg
117.1700	4 pcs	1000V pliers set	1,55
1 x		150 mm	
1 x		175 mm	
1 x		200 mm	
1 x		250 mm	

ERGOTORQUE® VDE pliers set

- Wrap around insulation to IEC 60900
- Two component handle
- Matt chrome
- Special tool steel

			g
117.1110	3 pcs	ERGOTORQUE® VDE pliers set	930
1 x		175 mm	
1 x		165 mm	
1 x		150 mm	

1000V pliers set

- Insulated handle to IEC 60900
- Matt chrome
- Special tool steel

			kg
117.1710	3 pcs	1000V pliers set	0,82
1 x		185 mm	
1 x		200 mm	
1 x		160 mm	

ERGOTORQUE® VDE pliers set

- Wrap around insulation to IEC 60900
- Two component handle
- Matt chrome
- Chrome vanadium

			kg
117.1160	4 pcs	ERGOTORQUE® VDE pliers set	1,20
1 x		200 mm	
1 x		160 mm	
1 x		180 mm	
1 x		160 mm	

ERGOTORQUE® VDE plier and screwdriver set

- Wrap around insulation to IEC 60900
- Two component handle
- Matt chrome / burnished
- Special tool steel

			kg
117.1170	5 pcs	ERGOTORQUE® VDE plier and screwdriver set	0,86
1 x		200 mm	
1 x		160 mm	
2 x		4 - 5,5 mm	
1 x		PH2	

1000V electronic set

- Insulated handle to IEC 60900
- Matt chrome
- Special tool steel

			g
117.1104	9 pcs	1000V electronic set	930
1 x		115 mm	
1 x		115 mm	
1 x		115 mm	
1 x		115 mm	
1 x		115 mm	
1 x		115 mm	
1 x		145 mm	
1 x		145 mm	
1 x		175 mm	

1000V pliers set

- Insulated handle to IEC 60900
- Matt chrome
- Special tool steel

			kg
117.1760	4 pcs	1000V pliers set	0,95
1 x		200 mm	
1 x		160 mm	
1 x		185 mm	
1 x		160 mm	

ERGOTORQUE® VDE pliers and screwdriver set

- Wraped and insulated handle to IEC 60900
- Pliers dip insulated
- Screwdrivers with two component handle
- Matt chrome / burnished
- Special tool steel

			kg
117.1770	5 pcs	ERGOTORQUE® VDE pliers and screwdriver set	0,69
1 x		200 mm	
1 x		160 mm	
2 x		4 - 5,5 mm	
1 x		PH2	

1000V pliers and screwdriver set

- Insulated handle to IEC 60900
- Matt chrome
- Special tool steel

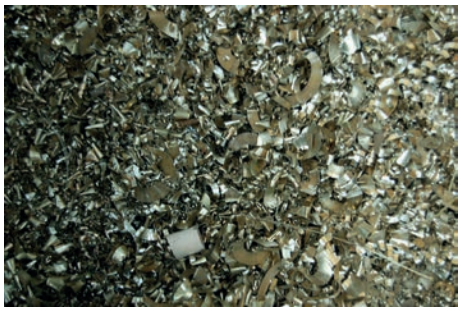
			g
117.1875	10 pcs	1000V pliers and screwdriver set	2000
1 x		185 mm	
1 x		160 mm	
1 x		160 mm	
1 x		160 mm	
1 x		3,0 mm	
4 x		2,5 - 4 - 5,5 - 6,5 mm	
1 x		PH1	

1000V pliers set

- Insulated handle to IEC 60900
- Matt chrome
- Special tool steel
- Force variant

117.1873	6 pcs	1000V pliers set	2,50

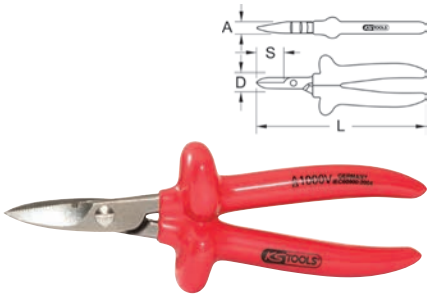
1 x		185 mm
1 x		160 mm
1 x		200 mm
1 x		200 mm
1 x		160 mm
1 x		260 mm



CABLE CUTTING

1000V electrical shear

- Insulated handle to IEC 60900
- Only suitable for copper and aluminium wire
- For the cutting of thin wires and sheet metals
- Matt chrome
- Special tool steel



	A mm	D mm	L mm	S mm		
117.1206	9,0	14,0	180,0	38,0	1000V	170

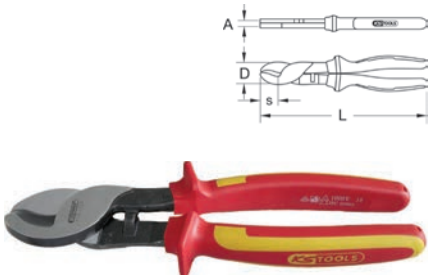
1000V cable shear

- Insulated handle to IEC 60900
- For and on multi strand copper and aluminium cable
- For lead cable up to max. Ø 50 mm²
- Lower power usage
- Not suited for steel wire and hard pulled copper cables
- Matt chrome
- Special tool steel

	Ø mm	Cutting ratio mm²	A mm	D mm	L mm	S mm		
117.4277	6,0	22,0	11,0	24,0	160,0	15,0	1000V	238
117.4278	10,0	38,0	13,0	29,0	210,0	18,0	1000V	370
117.4279	20,0	60,0	15,0	32,0	250,0	26,0	1000V	600

ERGOTORQUE® VDE cable shear

- Wrap around insulation to IEC 60900
- For lead cable up to max. Ø 50 mm²
- For squeeze free cutting of and on more wiry copper and aluminium cables
- Lower power usage
- Not suited for steel wire and hard pulled copper cables
- Phosphate finish
- Two component handle
- Special tool steel



	Ø mm	A mm	D mm	L mm	S mm		
117.1122	10,0	10,8	24,5	165,0	15,0		200
117.1123	12,5	13,0	29,0	215,0	17,5		270
117.1124	15,0	13,5	45,0	245,0	31,0		550

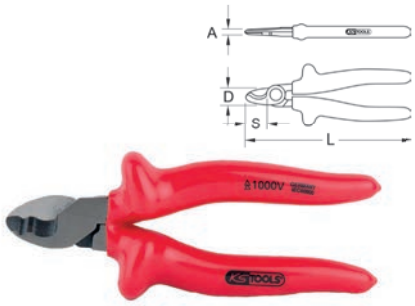
1000V cable shear

- Insulated handle to IEC 60900
- For and on multi strand copper and aluminium cable
- For lead cable up to max. Ø 50 mm²
- Lower power usage
- Not suited for steel wire and hard pulled copper cables
- Matt chrome
- Special tool steel

	Ø mm	Cutting ratio mm²	A mm	D mm	L mm	S mm		
117.1269	15,0	50,0	13,5	38,0	240,0	25,0	1000V	455

1000V single handed cable shear

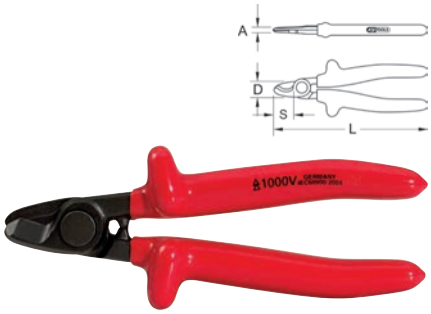
- Insulated handle to IEC 60900
- For and on multi strand copper and aluminium cable
- For lead cable up to max. Ø 50 mm²
- Lower power usage
- Not suited for steel wire and hard pulled copper cables
- Matt chrome
- Special tool steel



	Ø mm	Cutting ratio mm²	A mm	D mm	L mm	S mm		
117.1107	15,0	50,0	10,0	23,5	165,0	24,0	1000V	250
117.1108	20,0	60,0	12,0	28,5	200,0	27,0	1000V	350

1000V single handed cable shear

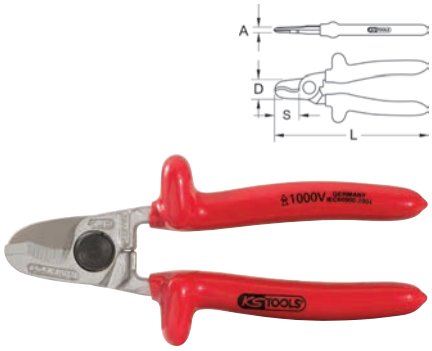
- Insulated handle to IEC 60900
- For and on multi strand copper and aluminium cable
- Extremly versatile
- No bruising, slight shaping of the cable
- With precision screw joint
- Suitable for wire up to 16 mm²
- Suitable for multi strand wire up to 25 mm²
- Suitable for ultra wire up to 50 mm²
- Not suited for steel wire and hard pulled copper cables
- Special tool steel



	Ø mm	A mm	D mm	L mm	S mm		
117.1286	15,0	12,0	25,0	160,0	20,0	1000V	250

1000V single handed cable shear

- Insulated handle to IEC 60900
- For and on multi strand copper and aluminium cable
- With after adjustable screw joint
- With zip fatener
- Not suited for steel wire and hard pulled copper cables
- Phosphate finish
- Special tool steel



	Ø mm	Cutting ratio mm²	A mm	D mm	L mm	S mm		
117.1287	17,0	35,0	15,0	27,0	165,0	25,0	1000V	240

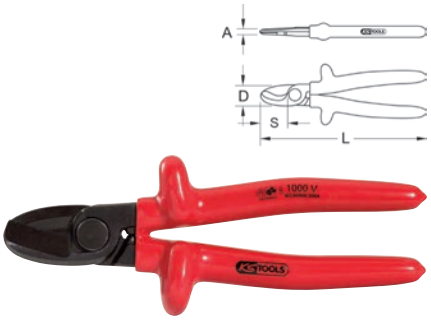
1000V single handed cable shear

- Insulated handle to IEC 60900
- With coated working head
- For and on multi strand copper and aluminium cable
- With after adjustable screw joint
- With zip fatener
- Not suited for steel wire and hard pulled copper cables
- Phosphate finish
- Special tool steel

	Ø mm	Cutting ratio mm²	A mm	D mm	L mm	S mm		g
117.1103	17,0	35,0	13,0	31,0	165,0	20,5	1000V	280
117.1109	20,0	50,0	18,0	33,5	210,0	34,0	1000V	400

1000V single handed cable shear

- Insulated handle to IEC 60900
- For and on multi strand copper and aluminium cable
- Extremly versatile
- Suitable for wire up to 25 mm²
- Suitable for multi-strand wire up to 50 mm²
- Suitable for ultra-wire up to 70 mm²
- Not suited for steel wire and hard pulled copper cables
- Phosphate finish
- Special tool steel



	Ø mm	A mm	D mm	L mm	S mm		g
117.1259	22,0	18,0	31,0	215,0	32,0	1000V	360

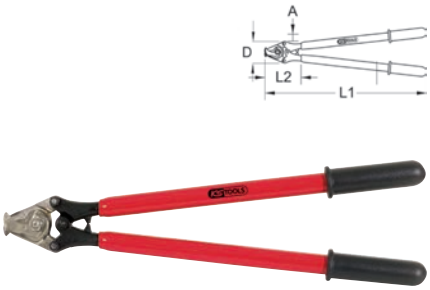
1000V two cut cable shear

- Insulated handle to IEC 60900
- For and on multi strand copper and aluminium cable
- Precision blade for easy and clean cut
- With before and after cut
- With after adjustable screw joint
- Not suited for steel wire and hard pulled copper cables
- Matt chrome
- Special tool steel

	Ø mm	Cutting ratio mm²	A mm	D mm	L1 mm	L2 mm	S mm		g
117.1270	20,0	50,0	13,5	33,0	200,0	83,0	48,0	1000V	365

Cable shears with protective insulation

- Insulated handle to IEC 60900
- For bruise free cutting of copper and aluminiums cables
- With interchangeable cutter head
- Knife head made out of special alloyed steel
- Lower power usage
- Not suited for steel wire and hard pulled copper cables
- Matt chrome
- Special tool steel



	Ø mm	Cutting ratio mm²	A mm	D mm	L1 mm	L2 mm	Replacement cutter head		kg
117.1260	26,0	150,0	16,0	80,0	600,0	80,0	117.1258	1000V	2,70
117.1261	33,0	180,0	17,0	86,0	700,0	105,0	117.1263	1000V	3,30

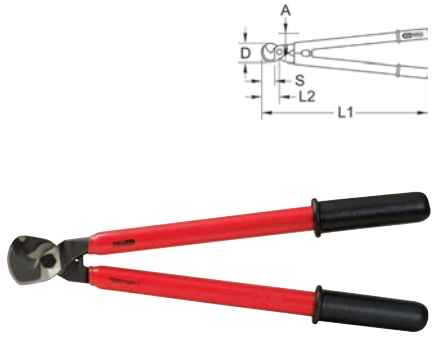
Storage bag for cable shears with protective insulation

- From black synthetic leather
- For storage and protection of insulated cable shears

	L mm	B mm		g
117.1262	650,0	95 - 190	➡ 117.1260 + 117.1261	241

Cable shears with protective insulation

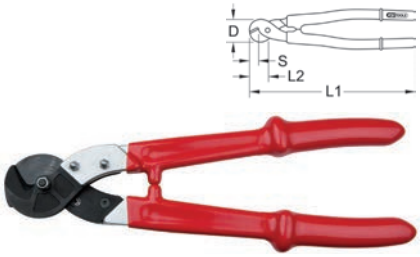
- Insulated handle to IEC 60900
- For bruise free cutting of copper and aluminium cables
- Clean cut through new cutting edge geometry
- With after adjustable screw joint
- Lower power usage
- Not suited for steel wire and hard pulled copper cables
- Matt chrome
- Special tool steel



	Ø mm	Cutting ratio mm²	A mm	D mm	L1 mm	L2 mm	S mm		kg
117.1264	27,0	150,0	15,0	59,0	500,0	58,0	37,0	1000V	1,48

Cable shears with protective insulation

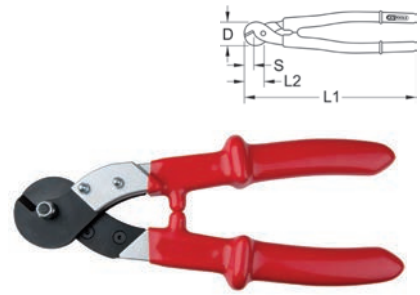
- Insulated handle to IEC 60900
- For bruise free cutting of copper and aluminium cables
- Clean cut through new cutting edge geometry
- With after adjustable screw joint
- Lower power usage
- Not suited for steel wire and hard pulled copper cables
- Matt chrome
- Special tool steel



	Cutting ratio mm²	D mm	L1 mm	L2 mm	S mm		kg
117.4281	95,0	58,0	310,0	35,0	25,0	1000V	0,82
117.4282	150,0	66,0	460,0	41,0	30,0	1000V	1,40
117.4283	325,0	90,0	600,0	55,0	46,0	1000V	2,50
117.4284	500,0	90,0	800,0	75,0	54,0	1000V	3,80

Wire rope cable shears with protective insulation

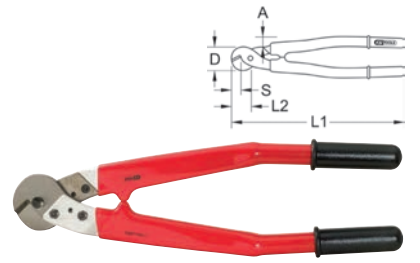
- Insulated handle to IEC 60900
- Above average cutting edge achieved
- For bruise free cutting for steel and aluminium rope, copper and aluminium cable
- Angular cutting edge tip for cutting single rope cords
- With interchangeable cutter head
- Cutter head made of high quality special steel
- Lower power usage
- Matt chrome
- Special tool steel



	Cutting edge steel mm²	Cutting edge wire mm²	D mm	L1 mm	L2 mm	S mm		kg
117.4285	7,0	60,0	58,0	310,0	30,0	20,0	1000V	0,95
117.4286	10,0	100,0	66,0	450,0	34,0	21,0	1000V	1,40
117.4287	14,0	150,0	91,0	600,0	45,0	24,0	1000V	2,60

Wire rope cable shears with protective insulation

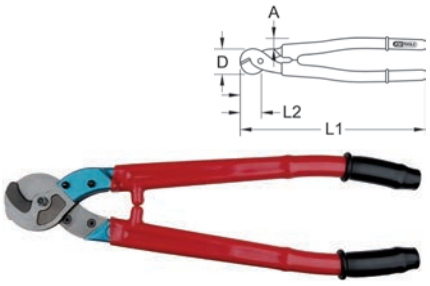
- Insulated handle to IEC 60900
- Above average cutting edge achieved
- For bruise free cutting for steel and aluminium rope, copper and aluminium cable
- Angular cutting edge tip for cutting single rope cords
- With interchangeable cutter head
- Cutter head made of high quality special steel
- Lower power usage
- Matt chrome
- Special tool steel



	Ø mm	Cutting ratio mm²	A mm	D mm	L1 mm	L2 mm	S mm	Replacement cutter head		kg
117.1266	20,0	120,0	19,0	90,0	600,0	84,0	17,0	117.1267	1000V	1,80

Wire rope cable shears with protective insulation

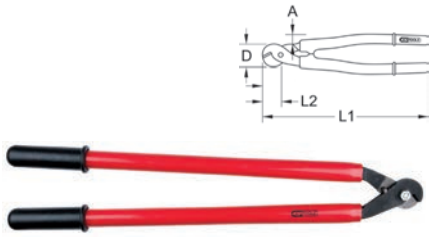
- Insulated handle to IEC 60900
- Above average cutting edge achieved
- For bruise free cutting for steel and aluminium rope, copper and aluminium cable
- Angular cutting edge tip for cutting single rope cords
- With interchangeable cutter head
- Cutter head made of high quality special steel
- Lower power usage
- Matt chrome
- Special tool steel



	D mm	Cutting ratio mm²	A mm	L1 mm	L2 mm		kg
117.4280	35 - 50	500,0	30,0	800,0	80,0	1000V	3,90

Wire rope shears with protective insulation

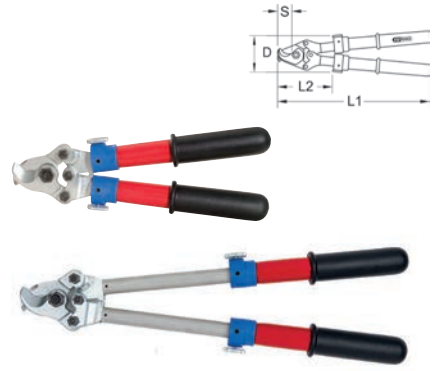
- Insulated handle to IEC 60900
- Above average cutting edge achieved
- For bruise free cutting for steel and aluminium rope, copper and aluminium cable
- Angular cutting edge tip for cutting single rope cords
- With interchangeable cutter head
- Cutter head made of high quality special steel
- Lower power usage
- Matt chrome
- Special tool steel



	Cutting edge steel mm²	Cutting edge wire mm²	D mm	A mm	L1 mm	L2 mm		kg
117.1101	9,0	16,0	54,0	37,0	700,0	45,0	1000V	2,40

Cable shears with protective insulation, telescopic handle

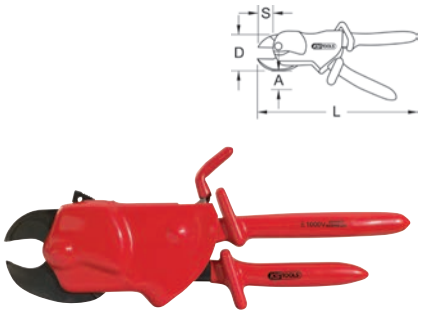
- Insulated handle to IEC 60900
- For and on multi strand copper and aluminium cable
- With telescopic handle
- With interchangeable cutter head
- Lower power usage
- Not suited for steel wire and hard pulled copper cables
- Matt chrome
- Special tool steel



	Ø mm	Cutting ratio mm²	D mm	L1 mm	L2 mm	S mm	Replacement cutter head		kg
117.1233	31,0	185,0	82,0	360-520	63,0	35,0	1172234	1000V	2,00

One-hand ratchet cable shears with protective insulation

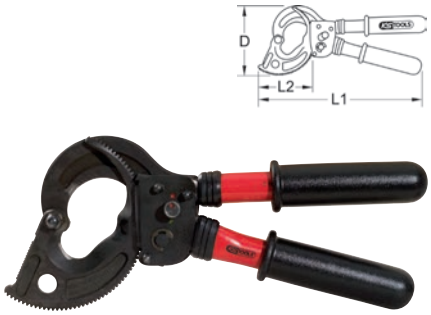
- Insulated handle to IEC 60900
- For and on multi strand copper and aluminium cable
- Working head coated
- Automatic reserve through spring return
- Cutting edge process can be interrupted in every position
- Matt chrome
- Special tool steel



	A mm	D mm	L mm	S mm		kg
117.1245	40,0	80,0	290,0	35,0	1000V	1,00
117.1246	40,0	85,0	310,0	40,0	1000V	1,15

Ratchet cable shears with protective insulation

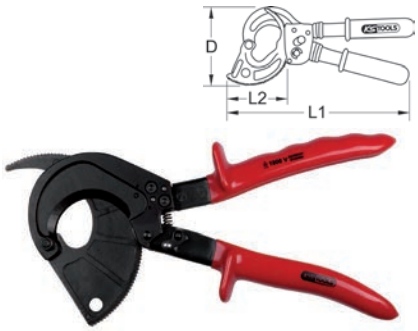
- Insulated handle to IEC 60900
- For and on multi strand copper and aluminium cable
- With double supported eccentric drive
- Almost break proof gearing
- Thin cutting steel sheet casing
- Ratchet function
- Not suitable for hardened steel wire
- Phosphate finish
- Special tool steel



	Ø mm	Cutting ratio mm²	D mm	L1 mm	L2 mm		kg
117.1248	62,0	840,0	150,0	400,0	90,0	1000V	2,20
117.1249	80,0	1000,0	190,0	530,0	110,0	1000V	3,15

Ratchet cable shears with protective insulation

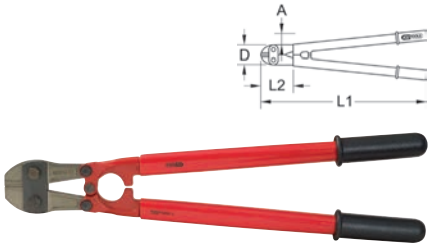
- Insulated handle to IEC 60900
- For and on multi strand copper and aluminium cable
- With double supported eccentric drive
- Almost break proof gearing
- Thin cutting steel sheet casing
- Ratchet function
- Not suitable for hardened steel wire
- Phosphate finish
- Special tool steel



	Ø mm	Ø mm	D mm	L1 mm	L2 mm	kg
117.1102	52,0	25,0	135,0	310,0	110,0	0,92

Bolt cutter with protective insulation

- Insulated handle to IEC 60900
- With steel tube legs and eccentric adjustment
- With interchangeable cutter head
- Cutter head made of high quality special steel
- Induction-hardened precision cutting
- Phosphate finish
- Special tool steel

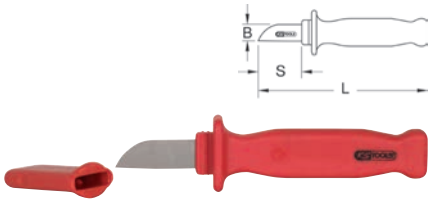


	A mm	D mm	L1 mm	L2 mm	Replacement cutter head		kg
117.1256	8,0	79,0	610,0	115,0	117.1257	1000V	2,70

ELECTRICIAN'S KNIVES

Cable knife with protective insulation

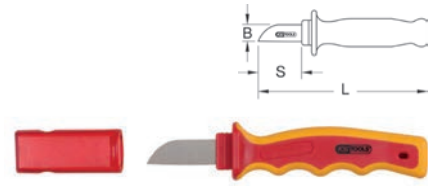
- Insulated to IEC 60900
- With durable and straight blade
- Straight blade
- Safety handle made out of tough elastic and impact resistant plastic
- With safety cover



	B mm	S mm	L mm		g
117.1295	18,5	50,0	210,0	1000V	105

Cable knife with protective insulation

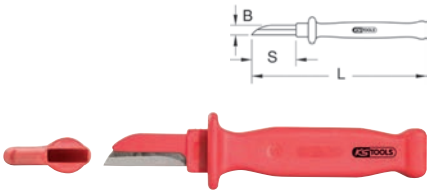
- Insulated to IEC 60900
- Two component handle
- With durable and straight blade
- Straight blade
- Safety handle made out of tough elastic and impact resistant plastic
- With safety cover



	B mm	S mm	L mm		g
117.1397	16,7	53,0	205,0	1000V	90

Cable knife with protective insulation

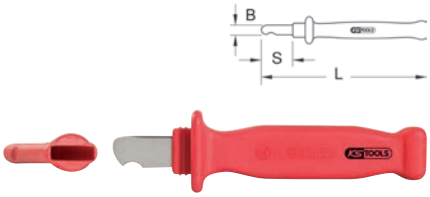
- Insulated to IEC 60900
- With durable, part insulated and straight blade
- Straight blade
- Safety handle made out of tough elastic and impact resistant plastic
- With safety cover



	B mm	S mm	L mm		
117.1390	18,5	50,0	210,0		115

Dismantling knife with protective insulation

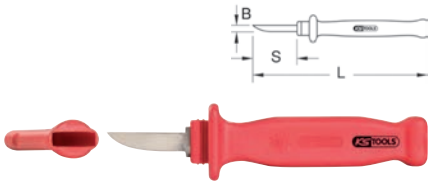
- Insulated to IEC 60900
- With durable and straight blade
- Hook shaped cutting edge
- Safety handle made out of tough elastic and impact resistant plastic
- With safety cover



	B mm	S mm	L mm		
117.1391	19,0	35,0	182,0		95

Gutta percha knife with protective insulation

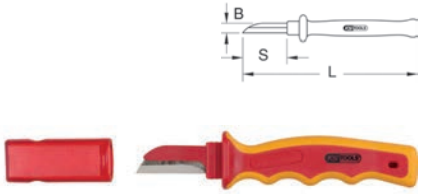
- Insulated to IEC 60900
- With durable blade
- Arched cutting edge
- Safety handle made out of tough elastic and impact resistant plastic
- With safety cover



	B mm	S mm	L mm		
117.1393	12,0	50,0	200,0		95

Cable knife with protective insulation

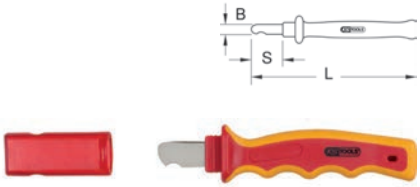
- Insulated to IEC 60900
- Two component handle
- With durable, part insulated and straight blade
- Straight blade
- Safety handle made out of tough elastic and impact resistant plastic
- With safety cover



	B mm	S mm	L mm		
117.1304	20,3	53,0	205,0		99

Dismantling knife with protective insulation

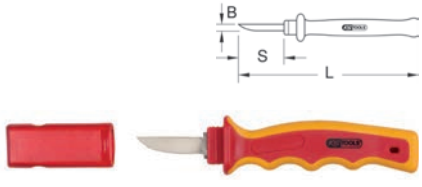
- Insulated to IEC 60900
- Two component handle
- With durable and straight blade
- Hook shaped cutting edge
- Safety handle made out of tough elastic and impact resistant plastic
- With safety cover



	B mm	S mm	L mm		
117.1305	19,0	35,0	185,0		92

Gutta percha knife with protective insulation

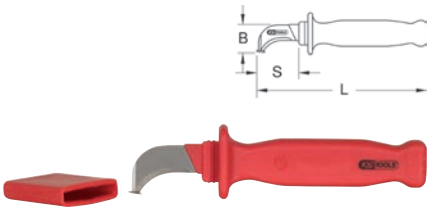
- Insulated to IEC 60900
- Two component handle
- With durable blade
- Arched cutting edge
- Safety handle made out of tough elastic and impact resistant plastic
- With safety cover



	B mm	S mm	L mm		
117.1326	12,0	50,0	250,0	1000V	85

Cable knife with protective insulation and hook blade

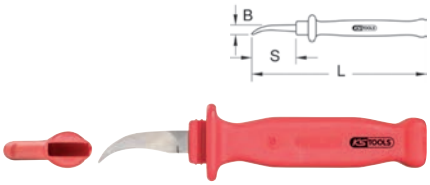
- Insulated to IEC 60900
- With durable blade
- Hook shaped cutting edge
- For slitting and stripping cable
- Safety handle made out of tough elastic and impact resistant plastic
- With safety cover



	B mm	S mm	L mm		
117.1296	28,0	40,0	200,0		100

Paper section knives with protective insulation

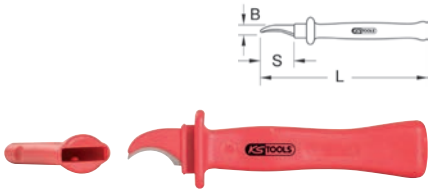
- Insulated to IEC 60900
- With durable blade
- Hook shaped cutting edge
- Suitable for sector cable
- Safety handle made out of tough elastic and impact resistant plastic
- With safety cover



	B mm	S mm	L mm		
117.1392	19,0	50,0	205,0		90

Settling knife with protective insulation

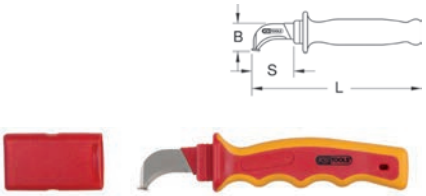
- Insulated to IEC 60900
- With durable blade
- Hook shaped and part isolated cutting edge
- Safety handle made out of tough elastic and impact resistant plastic
- With safety cover



	B mm	S mm	L mm		
117.1394	21,0	35,0	165,0		75

Cable knife with protective insulation and hook blade

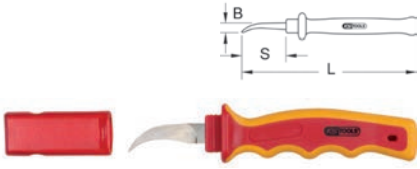
- Insulated to IEC 60900
- Two component handle
- With durable blade
- Hook shaped cutting edge
- For slitting and stripping cable
- Safety handle made out of tough elastic and impact resistant plastic
- With safety cover



	B mm	S mm	L mm		
117.1331	30,0	47,0	200,0		92

Paper section knives with protective insulation

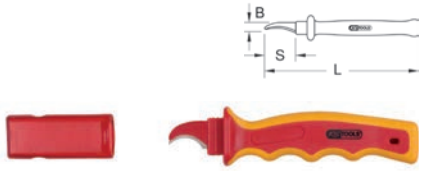
- Insulated to IEC 60900
- Two component handle
- With durable blade
- Hook shaped cutting edge
- Suitable for sector cable
- Safety handle made out of tough elastic and impact resistant plastic
- With safety cover



	B mm	S mm	L mm		
117.1320	17,0	56,0	210,0	1000V	83

Settling knife with protective insulation

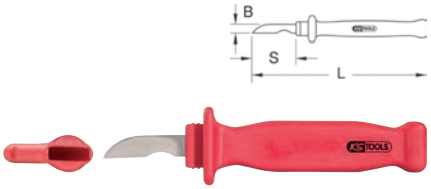
- Insulated to IEC 60900
- Two component handle
- With durable blade
- Hook shaped and part isolated cutting edge
- Safety handle made out of tough elastic and impact resistant plastic
- With safety cover



	B mm	S mm	L mm		
117.1328	21,2	30,0	180,0	1000V	87

Cable stripping blades with protective insulation

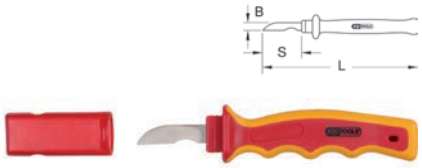
- Insulated to IEC 60900
- With durable blade
- Short and bent cutting edge for fine cable working
- Safety handle made out of tough elastic and impact resistant plastic
- With safety cover



	B mm	S mm	L mm		
117.1395	13,0	45,0	195,0		95

Cable stripping blades with protective insulation

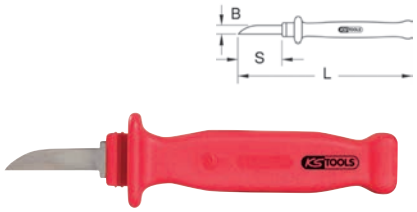
- Insulated to IEC 60900
- Two component handle
- With durable blade
- Short and bent cutting edge for fine cable working
- Safety handle made out of tough elastic and impact resistant plastic
- With safety cover



	B mm	S mm	L mm		
117.1329	13,0	45,0	200,0	1000V	83

Cable stripping blades with protective insulation

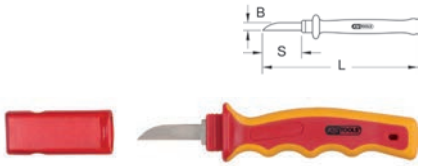
- Insulated to IEC 60900
- With durable blade
- Narrow and straight cutting edge
- Safety handle made out of tough elastic and impact resistant plastic
- With safety cover



	B mm	S mm	L mm		
117.1396	11,0	50,0	200,0		95

Cable stripping blades with protective insulation

- Insulated to IEC 60900
- Two component handle
- With durable blade
- Narrow and straight cutting edge
- Safety handle made out of tough elastic and impact resistant plastic
- With safety cover



	B mm	S mm	L mm		
117.1360	11,0	50,0	200,0	1000V	86

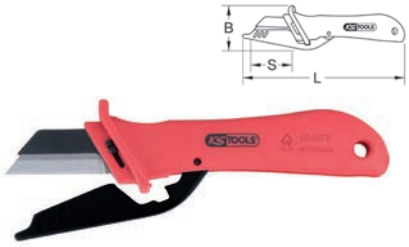
Cable sheath cutter with protective insulation

- Insulated to IEC 60900
- With durable and straight blade
- For stripping all insulation layers from cables
- Replaceable double knife
- Cutting depth adjustable
- Suitable for longitudinal and round cutting

	L mm	Ø Wire mm	Replacement blades		
117.3901	240,0	> 25,0	117.3902	1000V	250

Cable knife with protective insulation and replaceable blade

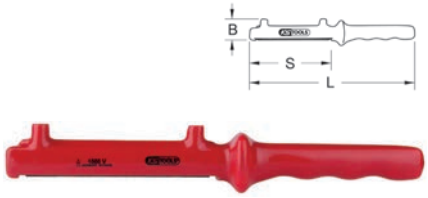
- Insulated to IEC 60900
- With durable, partially insulated and replaceable blade
- Straight blade
- Safety handle made out of tough elastic and impact resistant plastic
- With built-in protective cap



	B mm	S mm	L mm		Replacement blades	
117.1148	21,5	45,0	189,0	1000V	117.1149	67

Cable sheath saw with protective insulation

- Insulated handle to IEC 60900
- Extremly versatile
- Adjustable and replaceable saw blade



	B mm	L mm	S mm			
117.4273	40,0	330,0	175,0	117.4274	1000V	570

Insulation stripping pliers

- For cutting and stripping the cable sheath
- Limited cutting depth
- No damage to internal conductor

	Ø mm	D mm	L mm	
117.1370	25-52	140,0	300,0	670
117.1366	45-75	150,0	300,0	878

Dismantling pliers with protective insulation

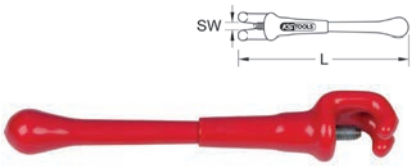
- Insulated to IEC 60900
- For cutting and stripping the cable sheath
- Limited cutting depth
- No damage to internal conductor

	Ø mm	D mm	L mm		
117.1365	25-52	140,0	300,0	1000V	690

COUNTERHOLDER WITH PROTECTIVE INSULATION

Counterholder with protective insulation

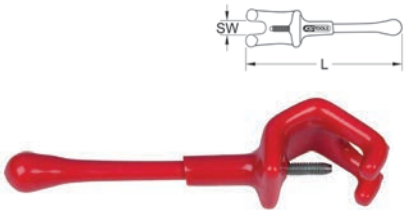
- Insulated handle to IEC 60900
- For better handling of screw connectors during assembly of sleeves
- Infinitely variable
- Can also be used for streetlights
- For screw connections of 0 - 15 mm



	mm	L mm		
117.1168	0-15	240,0	1000V	280

Counterholder with protective insulation

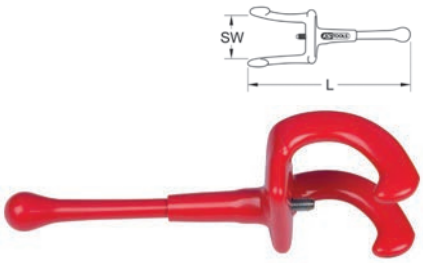
- Insulated handle to IEC 60900
- For better handling of screw connectors during assembly of sleeves
- Infinitely variable
- Can also be used for streetlights
- For screw connections of 15 - 40 mm



	mm	L mm		
117.1169	15-40	220,0	1000V	380

Counterholder with protective insulation

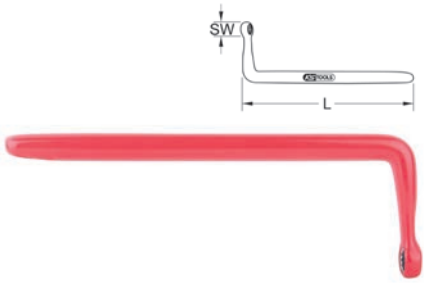
- Insulated handle to IEC 60900
- For better handling of screw connectors during assembly of sleeves
- Infinitely variable
- Can also be used for streetlights
- For screw connections of 25 - 50 mm



	mm	L mm		g
117.1183	25-50	300,0	1000V	610

Counterholder with protective insulation

- FlankTraction profile
- Insulated handle to IEC 60900
- Chrome vanadium
- For better handling of screw connectors during assembly of sleeves
- Infinitely variable
- Can also be used for streetlights



	mm	L mm		g
117.3960	10	210,0	1000V	100
117.3961	12	210,0	1000V	110
117.3962	13	220,0	1000V	110
117.3963	14	220,0	1000V	130
117.3964	15	220,0	1000V	160
117.3965	16	260,0	1000V	220
117.3966	17	260,0	1000V	240
117.3967	18	260,0	1000V	280
117.3968	19	260,0	1000V	290
117.3969	20	260,0	1000V	290
117.3970	22	280,0	1000V	310
117.3971	24	280,0	1000V	360

ALIGNING TOOLS WITH PROTECTIVE INSULATION

Aligning tool

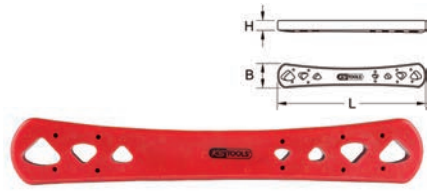
- For sector-shaped conductors
- Made from impact resistant plastic
- For aligning 3- or 4-wire sector-shaped conductors

3/8"

	Conductor	L mm	B mm		g
117.3915	95-150	80,0	35,0	1000V	69
117.3916	185-240	80,0	43,0	1000V	113

Aligning tool

- For 50/70/95/150/185/240 mm² sector-shaped conductors
- Made from impact resistant plastic
- For aligning sector-shaped conductors



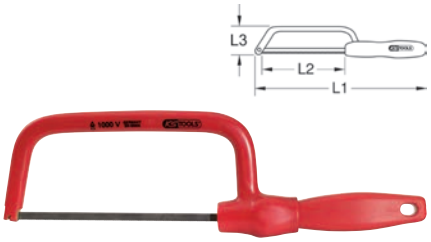
3/8"

	L mm	B mm	H mm		g
117.1723	248,0	40,0	15,0	1000V	132

SAWS WITH PROTECTIVE INSULATION

Hacksaw with protective insulation

- Insulated handle to IEC 60900
- Frame out of reinforced flat iron 10 x 5 mm
- With insulated handle for tensioning the saw blade



	L1 mm	L2 mm	L3 mm			g
117.1321	280,0	150,0	80,0	997.1216	1000V	225

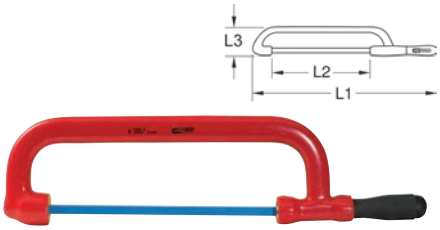
Hacksaw with protective insulation

- Insulated handle to IEC 60900
- With plastic screw for tensioning the saw blade

	L1 mm	L2 mm	L3 mm			g
117.1265	265,0	145,0	100,0	997.1216	1000V	180

Hacksaw with protective insulation, heavy-duty version

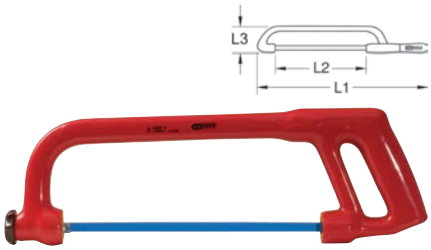
- Insulated handle to IEC 60900
- Frame out of reinforced flat iron 10 x 5 mm
- Heavy execution
- With insulated handle for tensioning the saw blade



	L1 mm	L2 mm	L3 mm			g
117.1323	520,0	330,0	130,0	129.6620-24	1000V	770

Hacksaw with protective insulation

- Insulated handle to IEC 60900
- Heavy execution
- With plastic screw for tensioning the saw blade

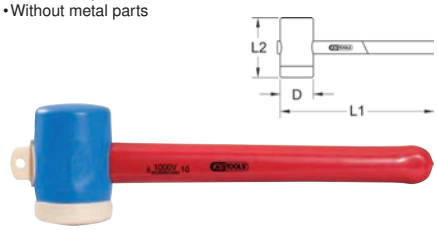


	L1 mm	L2 mm	L3 mm			g
117.1325	450,0	275,0	140,0	129.6620-24	1000V	700

HAMMER WITH PROTECTIVE INSULATION

Plastic hammer with protective insulation

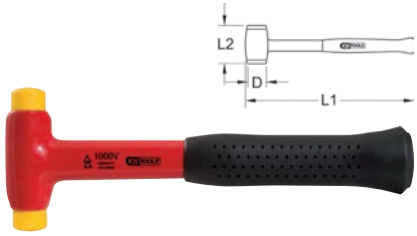
- Insulated to IEC 60900
- Made from plastic
- Without metal parts



	D mm	L1 mm	L2 mm		g
117.1131	55,0	300,0	82,0	1000V	325

Soft-face hammer with protective insulation

- Insulated to IEC 60900
- Shock absorbing effect through steel shot in the head
- Shatterproof and wear resistant
- Polyamid heads interchangeable
- For safer working with less recoil



	D mm	L1 mm	L2 mm	head.spare		g
117.1126	25,0	300,0	105,0	117.1128	1000V	560
117.1127	35,0	310,0	115,0	117.1129	1000V	790

CABLE PROTECTION

cable protection wedge

- separates a cut cable from the adjacent cable
- made of nylon

	L1 mm	L2 mm		g
117.2321	122,0	48,0	1000V	57

INDUSTRIAL SAFETY

Work protective hardhat

- DIN EN 397
- Special plastic

	Colour code	L mm	B mm	H mm	g
117.1608		290,0	225,0	175,0	370
117.1609		290,0	225,0	175,0	370
117.1610		290,0	225,0	175,0	370

Electrician's face shield

- DIN EN 397
- Fault arc tested to DGUV GS-ET-29, test level W(LBP) = 158 kJ (corresponds to prospective test short-circuit current 4 kA/0.5 s) EN 166
- Personal eye protection equipment
- Also fault arc tested to ASTM F2178, ATPV: 7.0 cal/cm²
- Colour rendering index > 90%
- Light transmission: > 88%
- Suitable for standard electrician's hardhat
- Face shield for 117.1608-117.1610

	Arc fault		g
117.1780	class 1	1000V	278

Electrician's face shield

- DIN EN 166
- Fault arc tested to DGUV GS-ET-29, test level W(LBP) = 318 kJ (corresponds to prospective test short-circuit current 7 kA/0.5 s) EN 166
- Personal eye protection equipment
- Also fault arc tested to ASTM F2178, ATPV: 7.0 cal/cm²
- Colour rendering index > 90%
- Colour rendering index > 90%
- Suitable for standard electrician's hardhat
- Suitable for standard electrician's hardhat
- Anti-mist protective gel supplied

	Arc fault		g
117.1796	class 2	1000V	525

Carrying bag for work helmet

- Made out of red leather
- With carrying strap

	B mm	H mm	g
117.1612	500,0	480,0	500

Safety rubber boots with protective insulation

- For working enviroment of voltages AC 1000 V and DC 1500 V
- In accordance with new standard EN 50321
- With steel bar

	Size mm		kg
117.1613	39	1000V	3,00
117.1614	40	1000V	3,00
117.1615	41	1000V	3,00
117.1616	42	1000V	3,00
117.1617	43	1000V	3,00
117.1618	44	1000V	3,00
117.1619	45	1000V	3,00
117.1620	46	1000V	3,00
117.1621	47	1000V	3,00

Under gloves

- Made out of fine mutton cloth

	L mm	g
117.1660	260,0	225

Electrician protective glove with natural latex insulation

- Dielectric latex gloves
- Insulated to DIN EN 60903
- With anatomical fit
- Anti-allergy treated
- With straight edge
- UV-resistant packaging

The use of glove liners is recommended for absorbing skin moisture and for better ventilation.

Attention: Over-gloves are necessary for mechanical protection!

	Thickness mm	Electrosoft Class	Size mm	L mm		g
117.1663	1,0	0	9	360,0	1000V	215
117.1664	1,0	0	10	360,0	1000V	215
117.1132	2,0	1	10	360,0	7500V	250
117.1133	2,0	3	10	410,0	26500V	690
117.1134	2,5	4	10	410,0	36000V	890

Electrician protective glove with natural latex insulation

- Dielectric latex gloves
- Insulated to DIN EN 60903
- With anatomical fit
- Anti-allergy treated
- With straight edge
- UV-resistant packaging

The use of glove liners is recommended for absorbing skin moisture and for better ventilation.

Attention: Over-gloves are necessary for mechanical protection!

	Thickness mm	Size mm	Electrosoft Class	L mm		g
117.2315	1,0	8	0	400,0	500V	215
117.1661	1,0	9	0	400,0	1000V	215
117.1662	1,0	10	0	400,0	1000V	215
117.1762	2,0	10	0	410,0	1000V	470
117.1756	1,0	9	00	410,0	500V	168
117.1757	1,0	10	00	410,0	500V	189
117.2316	1,0	11	0	400,0	500V	215

Pneumatic electrician protective glove tester

- For the testing of insulated gloves
- Always carry out before starting work

	D mm	L mm	g
117.1666	110,0	140,0	800

Protection pocket for electricians gloves

- Belt pocket made out of canvas
- For the storage and protection of the electricians gloves

	B mm	H mm	g
117.1665	180,0	200,0	200

Pull-on gloves for electrician's protective gloves

- Waterproof
- Treated with silicone
- Leather gloves for dielectric gloves
- Velcro fastening on the back of the hand
- Split leather cuff
- For protecting against mechanical risks
- Full-grain calf leather

Caution: This insulating-glove cover is required for mechanical protection (rubbing, cuts, pricks) in conjunction with dielectric gloves!

	Size mm	L mm	g
117.1560	10	320,0	175

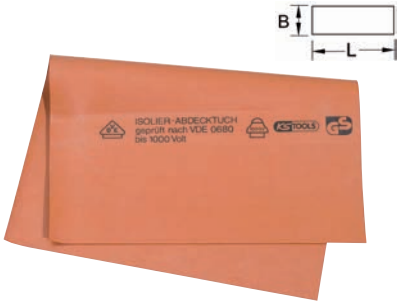
Rubber cover sheet with protective insulation, transparent

- Insulation according to DIN EN 61112
- transparent cloth
- cold-resistant and highly flexible

	Thickness mm	B mm	L mm		kg
117.2303	0,5	130,0	130,0	1000V	0,03
117.2304	0,5	200,0	200,0	1000V	0,10
117.2305	0,5	250,0	350,0	1000V	0,12
117.2306	0,5	500,0	500,0	1000V	0,18
117.2307	0,5	600,0	600,0	1000V	0,22
117.2308	0,5	1000,0	1000,0	1000V	0,68
117.2309	0,5	1200,0	1200,0	1000V	0,80
117.2311	0,5	1300,0	50000,0	1000V	40,00

Rubber cover with protective insulation

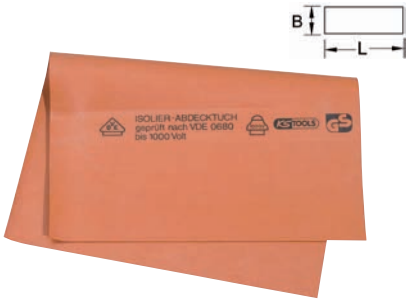
- Tested to VDE 0680/1
- Insulated to DIN EN 60903
- Extensively tear and water resistant
- Particularly suitable for external usage



	Thickness mm	B mm	L mm		kg
117.1651	1,0	130,0	130,0		0,04
117.1652	1,0	250,0	350,0		0,21
117.1653	1,0	500,0	500,0		0,43
117.1654	1,0	600,0	600,0		0,70
117.1655	1,0	1000,0	1000,0		1,80
117.1656	1,0	1200,0	1000,0		2,95
117.1657	1,0	1000,0	10000,0		16,75
117.1658	1,0	1200,0	10000,0		20,10

Rubber cover with protective insulation

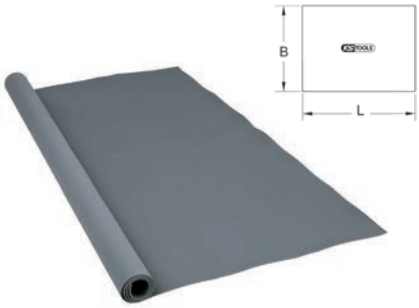
- Tested to VDE 0680/1
- Insulated to DIN EN 60903
- Extensively tear and water resistant
- Particularly suitable for external usage



	Thickness mm	B mm	L mm		kg
117.1746	1,6	130,0	130,0		0,03
117.1747	1,6	250,0	250,0		0,22
117.1748	1,6	500,0	500,0		0,44
117.1749	1,6	600,0	600,0		0,72
117.1750	1,6	1000,0	1000,0		1,90
117.1751	1,6	1200,0	1200,0		3,10
117.1752	1,6	1000,0	10000,0		18,60
117.1753	1,6	1200,0	10000,0		25,60

Insulating mat

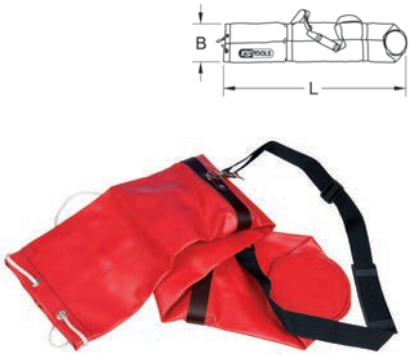
- Insulation in accordance with IEC 61111 Class 2



	Thickness mm	B mm	L mm		kg
117.3819	3,0	1000,0	1000,0	1000V	3,42
117.1398	3,0	1000,0	10000,0	1000V	40,00
117.1754	4,5	1000,0	1000,0	1000V	6,00
117.1755	4,5	1000,0	10000,0	1000V	60,00

Protective bag for insulating mat

- Made out of red leather
- With carrying strap



	B mm	L mm	g
117.1399	230,0	1000,0	900

Red/white diagonal striped foil barrier tape

- For safeguarding and indicating hazard areas
- In accordance with ASR A1.3 and BGV A8
- High tear resistance
- Block diagonal stripes in red/white
- For outdoor and indoor use
- Polyethylene
- In stable unwinding box

	Width mm	Length mm	kg
917.3899	80,0	500,0	2,50

Hybrid warning sign - flash for working on hybrid and electric vehicles

- Warning against hazardous voltage
- For safety in the workplace
- For outdoor and indoor use
- For company premises and workshops
- Sturdy quality with laminate coating
- Resistant to abrasion and chemicals
- Aluminium/plastic composite

	Thickness mm	Height mm	g
917.3898	5	200,0	66

Hybrid warning sign - switch for working on hybrid and electric vehicles

- Do not switch on, work is currently in progress
- For safety in the workplace
- For outdoor and indoor use
- For company premises and workshops
- Sturdy quality with laminate coating
- Resistant to abrasion and chemicals
- Aluminium/plastic composite

	Thickness mm	Ø mm	g
917.3897	5	200	84

Warning and information signs

- For safety in the workplace
- For outdoor and indoor use
- For company premises and workshops
- Sturdy quality with laminate coating
- Resistant to abrasion and chemicals
- Aluminium/plastic composite

		Width mm	Height mm	Thickness mm	g
117.2478	Sign to VDE requirements	660,0	1000,0	1,5	160
117.2479	First Aid sign notice	410,0	595,0	1,5	384
117.2481	Fire-fighting sign	410,0	595,0	1,5	384
117.2483	High-voltage Risk of death sign	200,0	237,0	1,6	58
117.2482	Earthed warning sign	200,0	120,0	1,6	178

TWEEZERS & SEARCH MIRROR WITH PROTECTIVE INSULATION

Tweezers with protective insulation, curved

- Insulated handle to IEC 60900
- Wrap insulation
- Chrome vanadium

	B mm	L mm		g
117.1623	11,5	145,0	GS 1000 V	35
117.1624	15,5	200,0	1000V	72

Tweezers with protective insulation, straight

- Insulated handle to IEC 60900
- Wrap insulation
- Chrome vanadium

	B mm	L mm		g
117.1626	11,0	130,0	1000V	30
117.1627	13,5	130,0	1000V	30
117.1628	15,0	145,0	GS 1000 V	55
117.1629	15,5	200,0	1000V	72

Search mirror with protective insulation

- Insulated handle to IEC 60900
- Insulated
- Chrome vanadium

	Ø mm	Length mm		g
117.1630	22	175,0	1000V	20

Search mirror with protective insulation

- Insulated handle to IEC 60900
- Flexible
- Insulated

		Ø mm	Length mm		g
117.2408	0 x	40	590,0	1000V	334
117.2409	0 x	58	590,0	1000V	350
117.2411	4 x	54	590,0	1000V	350

Flexible magnetic jack with protective insulation

- Insulated handle to IEC 60900
- Flexible shaft
- Special tool steel

	Load capacity kg	Ø mm	Length mm		g
117.2322	0,25	14,0	420,0	1000V	23
117.2323	1,0	15,0	470,0	1000V	180
117.2324	1,8	16,5	520,0	1000V	325

VOLTAGE TESTERS

Test lamp 6 - 24 V

- Test tip protected through a cap
- Ideal for helping to locate short circuits and breaks
- With shielded crocodile clamp
- Stainless steel probe
- Brass housing and cap

	Length mm	g
550.1504	125,0	30

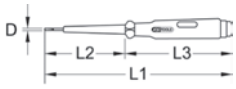
Polarity and voltage tester 3 - 48 V

- Universal test device for the vehicle electrics and electronics to test the voltage and polarity
- To troubleshoot electronic components and prevent damage caused by incorrectly coupled lines
- Two light-emitting diodes indicate voltage as well as polarity
- Test tip with push mechanics to tap into the cable
- With shielded crocodile clamp
- Test tip and reproducing stylus tip made of stainless steel

	Length mm	g
550.1503	140,0	70

Tension verifier with protection insulation 150 - 250 V

- In accordance to DIN ISO 0680
- Slot blade with hollow grinding
- Blade nickel plated
- Clip for the breast pocket
- With inspection panel



	D mm	L1 mm	L2 mm	L3 mm	g
911.2188	3,0	145,0	65,0	80,0	14

Tension verifier with protection insulation 100 - 500 V

- In accordance to DIN ISO 0680
- Slot blade with hollow grinding
- Blade nickel plated
- Clip for the breast pocket
- With inspection panel

	D mm	L1 mm	L2 mm	L3 mm	g
911.2176	3,0	140,0	64,0	75,0	15

Spannungsprüfer mit Schutzisolierung 100 - 500 V

- in Anlehnung an DIN ISO 0680
- Schlitz-Klinge mit Hohlschliff
- Klinge vernickelt
- mit Sichtfenster

	D mm	L1 mm	L2 mm	L3 mm	
911.2177	3,5	180,0	97,0	83,0	27

Polaritäts- und Spannungsprüfer mit Schutzisolierung 6 - 400 V

- in Anlehnung an DIN ISO 0680
- zur professionellen, mehrstufigen Spannungs- und Polaritätsprüfung
- Leuchtdioden zeigen Spannung sowie auch Polarität an
- für Gleich- und Wechselspannung
- mit Drehfeld und Phasenanzeige
- Prüfspitzen abgeschirmt
- Prüfspitze aus Edelstahl

Technische Daten:

Anzeige:	Leuchtdioden/LE
Anzeigestufe:	6 - 400 V
Stromaufnahme:	140 mA
Zulässige Einschaltdauer:	30 s
Frequenzbereich:	0 - 100 Hz
Schutzklasse:	IP40
AC Spannungsbereich Wechselspannung:	6 - 50 - 120 - 230 - 400 V
DC Spannungsbereich Gleichspannung:	6 - 50 - 120 - 230 - 400 V

550.1501	1000V	180

Universal-Spannungsprüfer mit Schutzisolierung 12 - 500 V

- in Anlehnung an DIN ISO 0680
- für Gleich- und Wechselspannung
- mit Drehfeld und Phasenanzeige

Technische Daten:

Anzeige:	Leuchtdioden/LE
Anzeigestufe:	12 - 500 V
Stromaufnahme:	140 mA
Zulässige Einschaltdauer:	30 s
Frequenzbereich:	0 - 100 Hz
Schutzklasse:	IP40
AC Spannungsbereich Wechselspannung:	12 - 50 - 120 - 150 - 220 - 300 - 400 - 500 V
DC Spannungsbereich Gleichspannung:	12 - 50 - 120 - 150 - 220 - 300 - 400 - 500 V

550.1502	1000V	180

Spannungsprüfer mit Schutzisolierung, zweipolig 12 - 1000 V

- geprüft und zugelassen gemäß international gültiger Norm
- isoliert nach IEC EIN 61243-3 (DIN VDE 0682-401)
- Spannungsklasse B
- Gleich- und Wechselspannung wird über LED angezeigt
- Drehfeld und Phasenanzeige über LCD
- einpolige Außenleiterprüfung (Phase)
- Drehfeldprüfung
- Polaritätsprüfung
- bewusste Auslösung eines 30 mA FI-Schutzschalters
- mit Vibrationsalarm

Technische Daten:

Anzeige:	LED/LCD
Anzeigestufe:	12 - 1000 V
Stromaufnahme:	200 mA
Zulässige Einschaltdauer:	30 s
Frequenzbereich:	0 - 500 Hz
Schutzklasse:	IP64
AC Spannungsbereich Wechselspannung:	12 - 24 - 50 - 120 - 230 - 400 - 690 - 1000 V
DC Spannungsbereich Gleichspannung:	12 - 24 - 50 - 120 - 230 - 400 - 690 - 1000 V

117.1503		210

Spannungsprüfball mit Schutzisolierung, zweipolig 50 - 1000 V

- geprüft und zugelassen gemäß international gültiger Norm
- isoliert nach IEC EIN 61243-3 (DIN VDE 0682-401)
- entspricht der EMV Anforderung nach DIN EN 61326
- Gleich- und Wechselspannung wird über LED angezeigt
- Drehfeld- und Phasenanzeige über LED
- mit Drehfeldrichtungsanzeige (Links / Rechts)
- bewusste Auslösung eines 30 mA FI-Schutzschalters

Technische Daten:

Anzeige:	LED/LCD
Anzeigestufe:	50 - 1000 V
Stromaufnahme:	300 mA
Zulässige Einschaltdauer:	30 s
Frequenzbereich:	0 - 100 Hz
Schutzklasse:	IP65
AC Spannungsbereich Wechselspannung:	120 - 200 - 300 - 350 - 400 - 450 - 500 - 550 - 600 - 650 - 700 - 750 - 800 - 850 - 900 - 950 - 1000 V
DC Spannungsbereich Gleichspannung:	120 - 200 - 300 - 350 - 400 - 450 - 500 - 550 - 600 - 650 - 700 - 750 - 800 - 850 - 900 - 950 - 1000 V
Überspannungskategorie:	CAT IV 600 V
	CAT III 1000 V
Prüfspannung:	6 kV

117.4266		620

Elektronisches Multifunktions-Prüfgerät 6 - 24 V mit 5 m Kabel

- ideale Prüflampe mit vielen Prüffunktionen
- mit auswechselbarer Prüfspitze zur optionalen Erweiterung mit marktüblichen Prüf- und Testkomponenten
- schnelle Funktionsprüfung ohne Ausbau der Komponenten
- über Kippschalter kann Plus bzw. Minus auf die Prüfspitze gegeben werden
- eingebaute Bi-Metall-Kurzschlusssicherung
- kein Sicherungsverschleiß bei der Fehlersuche
- Ausführung mit auswechselbarer Prüfspitze und Krokodilklemme
- sofortiger Durchgangstest von Schaltern, Relais, Dioden, Sicherungen, Kabelsträngen etc.
- zum Betreiben von elektronischen Komponenten wie Relais, Kraftstoffpumpen, Fensterhebermotor, Schalter, Lampen etc.
- zur Feststellung schlechter Masseverbindungen
- sofortige Polaritätsfeststellung durch rote/grüne LED-Anzeige
- wechselnde akustische Signale je nach Polarität
- mit dem Prüfgerät kann sofort Strom per Tastendruck zugeführt werden
- eingebaute Bi-Metall-Kurzschlusssicherung (7,5 A), daher kein Sicherungsverschleiß bei der Fehlersuche
- Kabel mit abgeschirmter Krokodilklemme und Polklemmen
- 5 Meter Kabellänge
- Prüfspitze aus Edelstahl

Technische Daten:

Kabellänge:	5 m
Prüfanschlussdurchmesser:	4 mm

	Einsatzbereich	Ersatzprüfspitze	
150.1670	6 - 24 V DC	150.1671	500

Elektronisches Multifunktions-Prüfgerät 6 - 24 V mit 25 m Kabel

- ideale Prüflampe mit vielen Prüffunktionen
- mit auswechselbarer Prüfspitze zur optionalen Erweiterung mit marktüblichen Prüf- und Testkomponenten
- schnelle Funktionsprüfung ohne Ausbau der Komponenten
- über Kippschalter kann Plus bzw. Minus auf die Prüfspitze gegeben werden
- eingebaute Bi-Metall-Kurzschlusssicherung
- kein Sicherungsverschleiß bei der Fehlersuche
- Ausführung mit auswechselbarer Prüfspitze und Krokodilklemme
- sofortiger Durchgangstest von Schaltern, Relais, Dioden, Sicherungen, Kabelsträngen etc.
- zum Betreiben von elektronischen Komponenten wie Relais, Kraftstoffpumpen, Fensterhebermotor, Schalter, Lampen etc.
- zur Feststellung schlechter Masseverbindungen
- sofortige Polaritätsfeststellung durch rote/grüne LED-Anzeige
- wechselnde akustische Signale je nach Polarität
- mit dem Prüfgerät kann sofort Strom per Tastendruck zugeführt werden
- eingebaute Bi-Metall-Kurzschlusssicherung (7,5 A), daher kein Sicherungsverschleiß bei der Fehlersuche
- Kabel mit abgeschirmter Krokodilklemme und Polklemmen
- 25 Meter Kabellänge
- Prüfspitze aus Edelstahl

Technische Daten:

Kabellänge:	25 m
Prüfanschlussdurchmesser:	4 mm

	Einsatzbereich	Ersatzprüfspitze	kg
150.1655	6 - 24 V DC	150.1671	1,26

Digital Multimeter incl. test probes

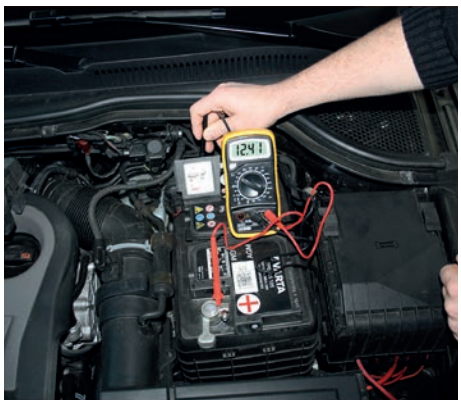
- Specially developed professional multimeter for automotive and commercial electrics and electronics
- Dual LCD display with digital display and bar diagram display (32 segment bar graph)
- With automatic overflow and polarity indication
- With safety mechanism for V, µA/mA/A, therefore incorrect connection is impossible
- Central 19-digit rotary switch
- Large LCD display with 3.1/2-digit, high-contrast display with background lighting
- Charge state shown in display
- With integrated glass fuse 250mA / 600V, 10A / 600V – 32 x 6 mm to protect the circuits
- Includes measuring line set with probes
- With on/off switch and automatic temperature shutdown
- With fold out adjustable foot in protective rubber holster
- Sturdy plastic housing

Functions:
- DC and AC voltage measurement
- DC and AC current measurement
- Resistance measurement
- Diode test (with acoustic signal)
- Continuity test (with acoustic signal)
- Data hold function
- Battery check indicator

Technical data:

Co-current flow:	20 µA - 10 A
DC voltage:	200 mV - 600 V
AC voltage:	200 V - 600 V
Resistance measurement:	200 Ohm - 2 MOhm
Power requirement:	9V block battery
Fuse protection S1 (fine flow):	250mA/600V; 10A/600V
Storage temperature:	-10° to +50° C (14° to 122° F)
Working temperature:	0° to +40° C (32° to 104° F)

	Length mm	Width mm	Depth mm	g
150.1495	138,0	69,0	31,0	342



Digital multimeter, including test prods and crocodile clamps

- Specially developed high quality multimeter for automotive and commercial electrics and electronics
- Dual LCD display with digital display and bar diagram display (32 segment bar graph)
- With automatic overflow and polarity indication
- With safety mechanism for V, µA/mA/A, therefore incorrect connection is impossible
- central 11-digit rotary switch
- Automatic measuring range selection
- Large LCD display with 3.1/2-digit, high-contrast display with background lighting
- with integrated glass fuse 300mA/600V; 10A/600V - 32 x 6 mm to protect the circuits
- including double test lead set with test prods and crocodile clips
- With fold out adjustable foot in protective rubber holster
- Sturdy plastic housing

Functions:
- Continuity test (with acoustic signal)
- Temperature measurement
- Diode test (with acoustic signal)
- Capacity
- Frequency measurement
- Data hold function
- Automatic measuring range selection

Technical data:

Co-current flow:	326µV - 10A
Capacity measurement:	326 nF - 32,6 µF
DC voltage:	326 mV - 600 V
Alternating current :	326µV - 10A
AC voltage:	3,26 V - 600 V
Resistance measurement:	326 Ohm - 32,6 MOhm
Frequency measurement:	32,60 - 150kHz
Temperature measurement:	-55°C ~ 1000°C
Power requirement:	9V block battery
Fuse protection S1 (fine flow):	300mA/600V
Fuse protection S2 (power-test socket):	10A/600V
Storage temperature:	-10° to +50° C (14° to 122° F)
Working temperature:	0° to +40° C (32° to 104° F)

	Length mm	Width mm	Depth mm	g
150.1480	189,0	91,0	31,5	834

Multimeter, including test prods, crocodile clamps, inductive clamp and temperature probe

- Specially developed high quality multimeter for automotive and commercial electrics and electronics
- With enhanced function for rpm measurement
- Ignition timing ascertainment up to 8-cylinder engines possible (Dwell function)
- Dual LCD display with digital display and bar diagram display (32 segment bar graph)
- With automatic overflow and polarity indication
- With safety mechanism for V, µA/mA/A, therefore incorrect connection is impossible
- Central 23-digit rotary switch
- With automatic area selection
- Large LCD display with 3.1/2-digit, high-contrast display with background lighting
- With integrated glass fuse 250V (500 mA) – 20 x 5 mm to protect the circuits
- Includes measuring line set with test prods, crocodile clamps, inductive clamp and temperature probe
- With on/off switch and automatic temperature shutdown
- With fold out adjustable foot in protective rubber holster
- Sturdy plastic housing

Functions:
- DC and AC voltage measurement
- DC and AC current measurement
- Resistance measurement
- Dwell
- Diode test (with acoustic signal)
- RPM measurement
- Temperature-automatic shutdown
- Frequency measurement
- Battery check indicator

Technical data:

Co-current flow:	326 µA - 10 A
Alternating current :	326 µA - 10 A
DC voltage:	326 mV - 1000 V
AC voltage:	3,26 V - 750 V
Resistance measurement:	32 - 32000 ohm
Frequency measurement:	32,60 - 200 kHz
Speed measurement:	300 - 12000 rpm
Temperature accuracy :	23° C ± 5° C
Power requirement:	9V block battery
Fuse protection S1 (fine flow):	500mA/350V (20x5mm)
Fuse protection S2 (power-test socket):	10A/250V (30x5mm)
Storage temperature:	-10° to +50° C (14° to 122° F)
Working temperature:	0° to +40° C (32° to 104° F)
Temperature measurement:	-20° to +760° C (-4° to 1400° F)

	Length mm	Width mm	Depth mm	g
150.2040	189,0	91,0	31,5	500

Digital amp pliers 200 A

- Due to the small pliers' diameter, a high level of accuracy and safe working in previously hard-to-reach places is a given
- They measure current with a resolution of 0.01 A to max. 200 A
- The built-in multimeter with a bar graph means there is no need for any additional measuring instruments
- Ideal for locating hidden consumers
- Very easy to read display
- Ideal for direct and alternating current tests
- Max. pliers opening of 30.0 mm
- LCD display
- Includes measuring line set with probes
- In a practical storage case
- direct current

Functions:
- Direct current
- DC and AC voltage
- Resistance
- Diode test
- Continuity test
- Temperature measurement
- Data hold function
- Peak hold function

Technical data:

Co-current flow:	0,01 - 200 A
DC voltage:	0,1 - 400 V
Alternating current :	0,01 - 200 A
AC voltage:	0,1- 400 V
Resistance measurement:	32 - 32000 ohm
Temperature accuracy :	23° C ± 5° C
Power requirement:	3x 1,5V AAA (not in the delivery)
Storage temperature:	-10° to +60° C (-4° to 140° F)
Working temperature:	-10° to +50° C (14° to 122° F)

	Length mm	Width mm	Depth mm	g	
150.1745	185,0	42,0	30,0	160	

Digital amp pliers 600 A

- Very easy to read display
- Ideal to use for alternating current tests
- Max. pliers opening of 27.0 mm
- Max. measurable conductor diameter of 29.0 mm
- including automatic switch-off after approx. 15 min
- LED display
- Includes probes and temperature gauge
- In a practical storage case

Functions:
- DC and AC voltage
- Resistance
- Diode test
- Continuity test
- Temperature measurement
- Data hold function
- Peak hold function

Technical data:

DC voltage:	600 V
Alternating current :	200 A, 600 A
AC voltage:	600 V
Resistance measurement:	2 megaohm
Temperature accuracy :	23° C ± 5° C
Power requirement:	9V block battery
Storage temperature:	0° to +50° C (14° to 122° F)
Working temperature:	-20° to +60° C (30° to 140° F)

			g	
150.0925	3 pcs	Digital amp pliers 600 A	655	

consists of:

		g	
150.0926	Digital amp pliers 600 V	370	
150.0927	Probe set, 600 A	75	
150.0928	Temperature gauge	20	

Digital amp pliers 1000 A

- Very easy to read display
- Ideal for direct and alternating current tests
- Max. pliers opening of 45.0 mm
- Max. measurable conductor diameter of 40.0 mm
- including automatic switch-off after approx. 15 min
- LED display
- Includes probes and temperature gauge
- Includes 3 x AAA batteries
- In a practical storage case

Functions:
- DC and AC voltage
- Resistance
- Diode test
- Continuity test
- Capacity measurement
- Frequency measurement
- Frequency measurement with pliers
- Temperature measurement
- Duty cycle
- Data hold function
- Peak hold function

Technical data:

Co-current flow:	400 A, 1000 A
DC voltage:	1000 V
Alternating current :	400 A, 1000 A
AC voltage:	700 V
Resistance measurement:	32 megaohm
Capacity measurement:	40 UF
Frequency measurement:	100 kHz
Temperature accuracy :	-40°C / +750°C
Power requirement:	3x 1,5V AAA batteries
Storage temperature:	10° to +50° C (50° to 122° F)
Working temperature:	5° to +35° C (41° to 95° F)

			g	
150.0929	3 pcs	Digital amp pliers 1000 A	480	

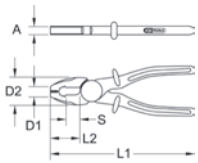
consists of:

		g	
150.0928	Temperature gauge	20	
150.0938	Probe set, 1000 A	65	
150.0934	Digital amp pliers 1000A	260	

PLASTIC PLIERS / CLAMPS WITH PROTECTIVE INSULATION

Plastic combination pliers with protective insulation and cutting function

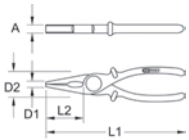
- Insulated to IEC 60900
- With machined cutting edge
- Made out of extremely durable plastic



	A mm	D1 mm	D2 mm	L1 mm	L2 mm	S mm	⚡	g	
117.1639	15,0	15,0	37,0	200,0	39,0	14,0	1000V	152	

Plastic flat nose pliers with protective insulation

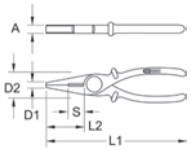
- Insulated to IEC 60900
- Made out of extremely durable plastic



	A mm	D1 mm	D2 mm	L1 mm	L2 mm		
117.1640	9,0	6,0	32,0	200,0	55,0	1000V	106

Plastic flat nose pliers with protective insulation

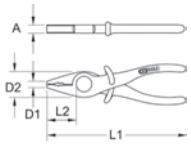
- Insulated to IEC 60900
- With machined cutting edge
- Made out of extremely durable plastic



	A mm	D1 mm	D2 mm	L1 mm	L2 mm	S mm		
117.1641	9,0	6,0	32,0	190,0	55,0	14,0	1000V	108

Plastic flat nose pliers with protective insulation

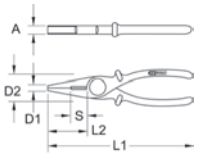
- Insulated to IEC 60900
- Suitable for meter assembly and closure
- Made out of extremely durable plastic



	A mm	D1 mm	D2 mm	L1 mm	L2 mm		
117.1642	11,0	10,0	38,0	180,0	37,0	1000V	85

Plastic combination pliers with protective insulation

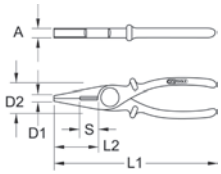
- Two component handle
- Fully insulated pliers
- Reduces the risk of short-circuit
- For assembling counters and locking
- Glass-fibre reinforced plastic
- With soft plastic area on the handle
- For firm hold



	A mm	D1 mm	D2 mm	L1 mm	L2 mm	S mm		
117.1765	11,5	6,0	32,0	185,0	33,0	19,0		130

Plastic combination pliers with protective insulation

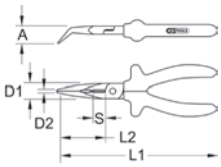
- Two component handle
- Fully insulated pliers
- Reduces the risk of short-circuit
- For assembling counters and locking
- Glass-fibre reinforced plastic
- With soft plastic area on the handle
- For firm hold



	A mm	D1 mm	D2 mm	L1 mm	L2 mm	S mm		
117.1766	5,0	10,0	32,0	225,0	72,0	20,0		140

Plastic combination pliers with protective insulation

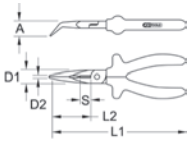
- Two component handle
- Fully insulated pliers
- Reduces the risk of short-circuit
- For assembling counters and locking
- Glass-fibre reinforced plastic
- With soft plastic area on the handle
- For firm hold



	A mm	D1 mm	D2 mm	L1 mm	L2 mm	S mm		
117.1767	5,0	10,0	32,0	230,0	110,0	20,0		140

Plastic telephone pliers with protective insulation

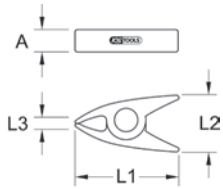
- Insulated to IEC 60900
- Fully insulated pliers
- Reduces the risk of short-circuit
- For assembling counters and locking
- Glass-fibre reinforced plastic
- For firm hold



	A mm	D1 mm	D2 mm	L1 mm	L2 mm	S mm		
117.2318	29,0	32,6	6,6	195,0	70,0	47,0	1000V	112

Plastic clamp with protective insulation, small

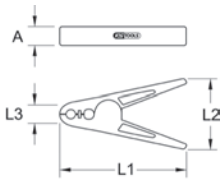
- Insulated to IEC 60900
- Extra small execution
- With inserted steel spring
- For clamping of uncovered cable
- Made from plastic



	A mm	L1 mm	L2 mm	L3 mm		
117.1643	15,0	80,0	44,0	10,0		30

Plastic clamp with protective insulation, large

- Insulated to IEC 60900
- In large execution
- With inserted steel spring
- For clamping of uncovered cable
- Made from plastic



	A mm	L1 mm	L2 mm	L3 mm		
117.1644	16,0	160,0	94,0	27,0		70

BRUSH WITH PROTECTIVE INSULATION

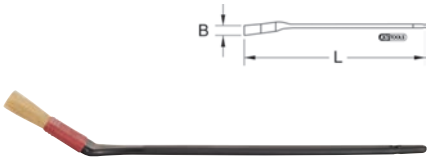
Dust brush with protective insulation, straight

- Insulated to IEC 60900
- With hanging hole
- Short execution
- No electric run
- Made from plastic

	B mm	L mm		
117.1645	25,0	180,0	1000V	11

Dust brush with protective insulation, curved

- Insulated to IEC 60900
- With hanging hole
- Long and angled execution
- No electric run
- Made from plastic



	B mm	L mm		
117.1646	25,0	400,0	1000V	70
117.1647	35,0	400,0	1000V	75
117.1648	50,0	400,0	1000V	80

SEALS & HOODS WITH PROTECTIVE INSULATION

Grommet with protective insulation and clamping cap

- Insulated handle to IEC 60900
- For isolating of cable heads and single conductors
- With cross cut cover
- Made out of tough elastic insulating material

	D mm	L mm		
117.4234	10,0	40,0	1000V	10
117.4235	10,0	100,0	1000V	11
117.4236	15,0	100,0	1000V	16
117.4241	10,0	75,0	1000V	10
117.4237	20,0	100,0	1000V	30
117.4242	20,0	100,0	1000V	20
117.4243	30,0	115,0	1000V	40
117.4238	40,0	135,0	1000V	68
117.4239	50,0	155,0	1000V	99
117.4240	60,0	140,0	1000V	140

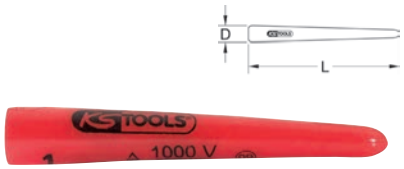
Grommet with protective insulation

- Insulated handle to IEC 60900
- For isolating of cable heads and single conductors
- Made out of tough elastic insulating material

	D mm	L mm		
117.1784	2,0	40,0	1000V	1
117.1785	3,0	40,0	1000V	1
117.1786	4,0	40,0	1000V	1
117.1787	5,0	40,0	1000V	1
117.1788	7,0	50,0	1000V	1
117.1789	10,0	70,0	1000V	5
117.1790	15,0	110,0	1000V	17
117.1791	20,0	110,0	1000V	21
117.1792	25,0	110,0	1000V	22
117.1793	30,0	120,0	1000V	38
117.1794	35,0	140,0	1000V	49
117.1795	40,0	140,0	1000V	62

Counter nozzle with protective insulation

- Insulated handle to IEC 60900
- For isolating of cable single conductors
- Beveled
- Made out of tough elastic insulating material



		D mm	L mm		
117.4244	#1	12,0	80,0	1000V	6
117.4245	#2	12,0	80,0	1000V	6
117.4246	#3	12,0	80,0	1000V	6

Push-on grommet with protective insulation

- Insulated handle to IEC 60900
- For isolating of cable single conductors
- Beveled
- Made out of tough elastic insulating material

	D mm	L mm		
117.4247	6,0	40,0	1000V	1
117.4248	6,0	60,0	1000V	1
117.4249	8,0	40,0	1000V	1
117.4250	10,0	30,0	1000V	1
117.4251	10,0	40,0	1000V	1
117.4252	10,0	60,0	1000V	1
117.4253	12,0	90,0	1000V	6
117.4254	15,0	110,0	1000V	14
117.4255	20,0	110,0	1000V	20
117.4256	25,0	110,0	1000V	20
117.4257	30,0	110,0	1000V	37
117.4258	40,0	110,0	1000V	37

Push-on grommet with protective insulation

- Insulated handle to IEC 60900
- For isolating of cable single conductors
- Made out of tough elastic insulating material

	D mm	B mm	L mm		
117.1768	30,0	60,0	140,0	1000V	77
117.1769	40,0	80,0	140,0	1000V	113

Cover and protective hood with protective insulation

- Insulation according to DIN 680-1
- Made from soft PVC
- For overhead line insulators
- Made from weatherproof insulating material
- Also suitable for long-term use

	L1 mm	L2 mm		
117.1797	160,0	80,0	1000V	320
117.1798	160,0	300,0	1000V	700

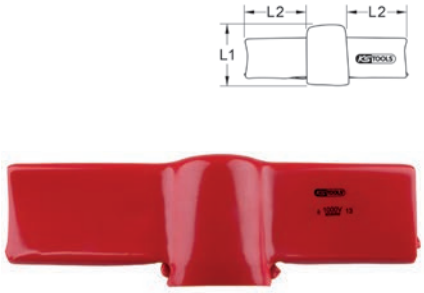
Cover and protective hood with protective insulation

- Insulated to IEC 60900
- Made from soft PVC
- For overhead line insulators
- Made from weatherproof insulating material
- Also suitable for long-term use

	L1 mm	L2 mm		
117.1799	100,0	130,0	1000V	225

Cover and protective hood with protective insulation

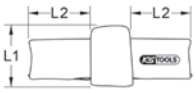
- Insulated to IEC 60900
- Made from soft PVC
- For overhead line insulators
- Made from weatherproof insulating material
- Also suitable for long-term use



	L1 mm	L2 mm		
117.4201	100,0	130,0	1000V	330

Cover and protective hood with protective insulation

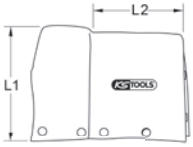
- Insulation according to DIN 680-1
- Made from soft PVC
- For overhead line insulators
- Made from weatherproof insulating material
- Also suitable for long-term use



	L1 mm	L2 mm		
117.4202	160,0	80,0	1000V	390
117.4203	160,0	220,0	1000V	832

Covers for gable insulators

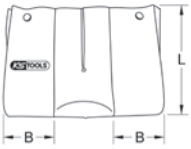
- Insulated to IEC 60900
- With plastic buttons
- Must also be firmly secured in bad weather
- Complete touch protection including on the underside
- Made from soft weatherproof insulating material
- Also suitable for long-term use



	L1 mm	L2 mm		
117.4204	270,0	240,0	1000V	760

Covers for gable insulators

- Insulated to IEC 60900
- With plastic buttons
- Must also be firmly secured in bad weather
- Complete touch protection including on the underside
- Made from soft weatherproof insulating material
- Also suitable for long-term use



	L mm	B mm		
117.4205	270,0	115,0	1000V	813

NH push-on fuse handle with protective insulation

- With contact knife in accordance with DIN 43620 Part 1 of the sizes 00-3
- For low-voltage high-breaking-capacity fuse
- For nominal voltage up to 600V ac voltage

	L mm	B mm		
117.1622	380,0	225,0	1000V	460
117.4263	445,0	225,0	1000V	451

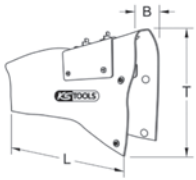
Cover with protective insulation for a fuse strip

- Fuse panel insulated in accordance with DIN 43623
- Tested to VDE 0680/1
- 1 suspension device downstream of LVHRC fuse-link L1
- Plastic handle for operation
- Rubber repair tape
- 50 mm projection at the top
- With 5 press studs for extension

	Thickness mm	B mm	L mm	T mm		
117.1611	1,0	85,0	760,0	195,0	GS	680

Cover with protective insulation for a fuse strip

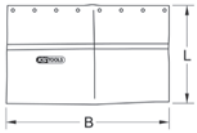
- Fuse panel insulated in accordance with DIN 43623
- Tested to VDE 0680/1
- 1 suspension device downstream of LVHRC fuse-link L1
- Without plastic handle
- Rubber repair tape
- 50 mm projection at the top
- With 5 press studs for extension



	Thickness mm	B mm	L mm	T mm		
117.1659	1,0	85,0	760,0	195,0	GS	680

Extension sheet with protective insulation

- Tested to VDE 0680/1
- To extend the cover



	Thickness mm	B mm	L mm		Push buttons	
117.1690	1,0	470,0	500,0	GS	5	300
117.1380	1,0	800,0	500,0	GS	8	500

Cover with protective insulation for 2 to 4 fuse strips

- Fuse panel insulated in accordance with DIN 43623
- Tested to VDE 0690/1
- 2 suspension devices downstream of LVHRC fuse-link L1
- 2 plastic handles for operation
- Rubber repair tape
- 50 mm projection at the top
- With 8 press studs for extension

	Thickness mm	B mm	L mm	T mm		
117.1698	1,0	430,0	760,0	195,0	GS	1,15

Cover with protective insulation for 2 to 4 fuse strips

- Fuse panel insulated in accordance with DIN 43623
- Tested to VDE 0680/1
- 2 suspension devices downstream of LVHRC fuse-link L1
- Without plastic handle
- Rubber repair tape
- 50 mm projection at the top
- With 8 press studs for extension

	Thickness mm	B mm	L mm	T mm		
117.1699	1,0	430,0	760,0	195,0	GS	1,15

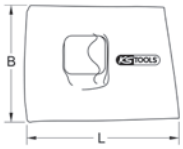
Cover and protective hood with protective insulation

- Insulation according to DIN 680-1
- Made from soft PVC
- For overhead line insulators
- Made from weatherproof insulating material
- Also suitable for long-term use

	L1 mm	L2 mm		
117.4220	140,0	100,0	1000V	280

NH protective cap with protective insulation

- Made from soft PVC
- Moulded protective cap for covering spring contacts



	L mm	B mm		
117.4225	170,0	135,0	1000V	135
117.4226	260,0	135,0	1000V	190

NH protective cap with protective insulation

- Made from soft PVC
- Moulded protective cap for covering 2 spring contacts
- Where LVHRC fuse is used

	L mm	B mm		
117.4223	320,0	170,0	1000V	350

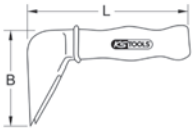
Conductor cable cover with protective insulation for overhead lines NS

- Complete sheathing of overhead line conductors
- Class 0
- For diameters up to 20 mm

	Length m	D mm		
117.4259	2,50	25,0	1000V	360
117.4260	5,00	25,0	1000V	600

Mounting handle with protective insulation

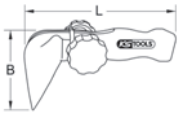
- Assembly handle for stranded conductor covers
- Made from plastic
- Class 0



	L mm	B mm		
117.4261	165,0	95,0	1000V	150

Mounting handle with protective insulation, screw-on

- Assembly handle for stranded conductor covers
- Made from plastic
- Class 0



	L mm	B mm		
117.4262	165,0	95,0	1000V	187

PUNCH WITH PROTECTIVE INSULATION

Punch with protective insulation

- Insulated handle to IEC 60900
- With T-handle
- Burnished
- Chrome vanadium

	l mm	D mm	L mm		
117.1649	90,0	4,0	100,0	1000V	130

EX+LED PROTECTED LAMPS

LED lamp with protective insulation

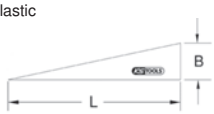
- Insulated handle to IEC 60900
- For the illumination of cable ducts and switch cabinets
- White illuminant
- Includes AA-Lithium batteries

	D mm	L mm	Replacement battery		
117.1650	28,0	90,0	AA-Lithium	1000V	80

EXPANSION WEDGES WITH PROTECTIVE INSULATION

Plastic expansion wedge

- For working enviroment of voltages AC 1000 V and DC 1500 V
- Without flute
- Made from impact resistant plastic



	L mm	B mm		
117.4267	160,0	15,0	1000V	60

Plastic wedge

- For working enviroment of voltages AC 1000 V and DC 1500 V
- With sharp edges
- With large impact head
- Made from impact resistant plastic

	B mm	L mm		
117.1667	28,0	170,0	1000V	90

Plastic expansion wedge

- For working enviroment of voltages AC 1000 V and DC 1500 V
- Without flute
- Oval form without sharp edges
- Short execution
- Made from impact resistant plastic

	B mm	L mm		
117.1668	30,0	150,0	1000V	40

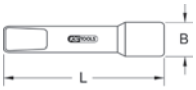
Plastic expansion wedge

- For working enviroment of voltages AC 1000 V and DC 1500 V
- With wide groove for all current cable scissors
- Oval form without sharp edges
- Made from impact resistant plastic

	B mm	L mm		
117.1669	20,0	170,0	1000V	100

Plastic expansion wedge

- For working enviroment of voltages AC 1000 V and DC 1500 V
- For the assembly of cable branch clamps
- No slipping in the cutting of cable strand
- Made from impact resistant plastic



	B mm	L mm		
117.1670	38,0	197,0	1000V	55

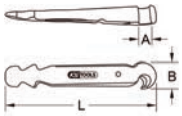
Plastic expansion wedge

- For working enviroment of voltages AC 1000 V and DC 1500 V
- Without flute
- Oval form without edges
- Long execution with large impact head
- Made from impact resistant plastic

	B mm	L mm		
117.1680	53,0	225,0	1000V	225

Plastic expansion wedge

- For working enviroment of voltages AC 1000 V and DC 1500 V
- Specially for assembly of cable branch terminals
- Groove width 22 mm
- Made from impact resistant plastic
- As an aid for cutting cable wires



	A mm	L mm	B mm		
117.4268	20,0	270,0	50,0	1000V	170

Beading chisels

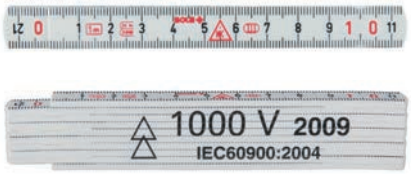
- For NKBA cables
- 70 mm chamfer
- 30 mm radius
- Made from impact resistant plastic

	L mm	B mm		
117.4269	140,0	25,0	1000V	58

FOLDING RULES

Plastic folding rule, white

- Insulated in accordance with IEC 60900:2004
- Made from glass-fibre reinforced plastic
- Without metal parts



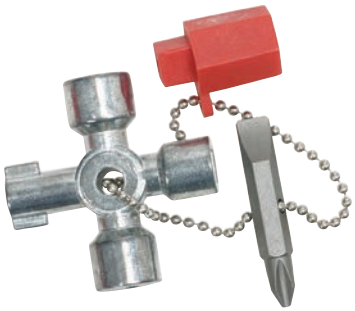
	Length m		
300.0066	1,00	1000V	600

UNIVERSAL ENCLOSURE KEYS

Mini universal enclosure key

- With chain
- Bit adaptor for bits to DIN 3126 / C 6,3
- Die cast zinc

■	6 mm
■	7 - 8 mm
▲	9 mm
●	3 - 5 mm
⊕	PH 2
⊖	7 mm

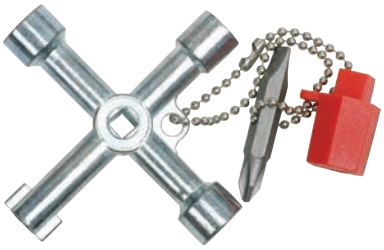


	Width mm	Length mm	
130.1010	42,0	42,0	100

Universal enclosure key

- With chain
- Bit adaptor for bits to DIN 3126 / C 6,3
- Heating ventilation key
- Die cast zinc

■	6 mm
■	7 - 8 mm
▲	9 mm
●	3 - 5 mm
⊕	PH 2
⊖	7 mm



	Width mm	Length mm	
130.1015	71,0	71,0	200

Universal enclosure key

- With chain
- Bit adaptor for bits to DIN 3126 / C 6,3
- Heating ventilation key
- Die cast zinc

■	5 mm
■	7 mm
■	8 mm
■ ■ ■	4 - 10 mm
▲	9 - 10 mm
⊕	PH 2
⊖	7 mm

	Width mm	Length mm	g	
130.1020	61,0	90,0	200	

Universal enclosure key electrical

- For all common control cabinet-enclosures
- For bits to DIN 3126 / C 6,3
- Fourfold pivot mechanism
- Die cast zinc

■	6 mm
■	7 mm
■	8 mm
▲	7 mm
▲	8 - 9 mm
⬤	3 - 5 mm
⊂	
◠	6 mm

	Width mm	Length mm	g	
130.1046	100,0	114,0	358	

Universal switchgear cabinet key, magnetic

- For all common control cabinet-enclosures
- For bits to DIN 3126 / C 6,3
- with double rotating mechanism
- Die cast zinc

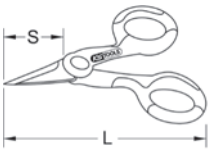
■	5 mm
■	6 - 7 mm
■	8 - 9 mm
▲	5 - 6 mm
▲	6 - 7 mm
▲	8 - 9 mm
⬤	3 - 5 mm
□	2 x 1/4"
■	1/4"

	Width mm	Length mm	g	
130.1041	38,0	95,0	86	

SHEARS

Universal workshop shear

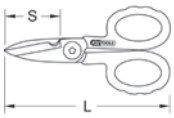
- Robust short shears
- With screw on blade
- Various applications
- Stainless steel blade



	L mm	S mm	g	
118.0010	140,0	43,0	100	

Universal workshop shear

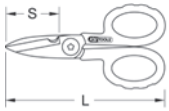
- Robust short shears
- With screw on blade
- Various applications
- Stainless steel blade
- Two component handle



	L mm	S mm	g	
118.0013	143,0	46,0	100	

Universal workshop shear

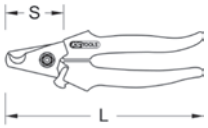
- Robust short shears
- For various application areas
- With cable cutter
- Practical and very sharp
- Includes belt bag with cut protection



	L mm	S mm	g	
118.0060	140,0	42,0	170	

Universal cable shear

- Self opening
- Safety locking device
- Hardened blades with precision cut
- No bruising, slight shaping of the cable
- Ergonomic moulded plastic handle
- Ideal for soft cables
- Not suited for steel wire and hard pulled copper cables



	Ø mm	L mm	S mm	g	
118.0073	10,0	165,0	50,0	180	

Scissor set for hoses and plastic pipes

- ideal for angle-precise and clean cutting of rubber hoses, plastic pipes and various plastic profiles, such as cable ducts
- for rubber hoses with or without textile cover
- fittings for 16, 19 and 25 mm pipes included
- with prism for 90° profile
- with adjustable angle stop up to 45°
- In durable plastic storage case

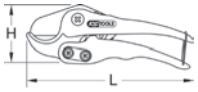
			g	
123.0075	7 pcs	Scissor set for hoses and plastic pipes	490	

consists of:

		g	
123.0076	scissor-shaped with blades	290	
123.0077	fitting for Ø 16 and 19 mm	30	
123.0078	fitting for Ø 25 mm	78	
123.0079	prism for 90° profile	63	
123.0084	straight fitting	37	
123.0086	angular stop	36	
151.2604	Hexagon key wrench phosphate finish, short, 4mm	10	

Plastic pipe cutter Ø 0 - 32 mm

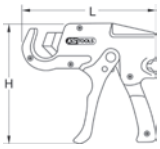
- Teflon coated cutting blades
- Aluminium die cast body



	Ø mm	H mm	L mm		g
222.1001M	0 - 32,0	71,0	205,0	222.1011M	320

Plastic pipe cutting pistol Ø 6 - 35 mm

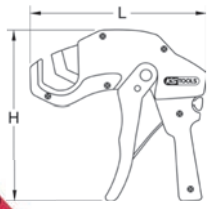
- Adjustable cutting feed through pushing the hand grips
- With knife locking knob for easy adjustment of the knife
- For thin walled plastic pipes up to max. Ø 5 mm
- Die cast body



	Ø mm	H mm	L mm		g
222.1100	6,0 - 35,0	160,0	190,0	222.1101	630

Plastic pipe cutting pistol Ø 6 - 42 mm

- Two stage cutting range 6 to 26 mm + 6 - 42 mm
- Adjustable cutting feed through pushing the hand grips
- With knife locking knob for easy adjustment of the knife
- For thin walled plastic pipes up to max. Ø 5 mm
- Die cast body

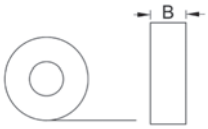


	Ø mm	H mm	L mm		g
222.3100	6,0 - 42,0	220,0	210,0	222.3101	750

ELECTRICAL INSULATING TAPE

PVC insulation tape set

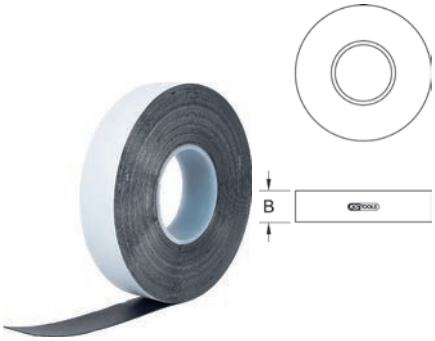
- Good resistance to abrasion and corrosion and/or moisture
- High di-electric strength and good mechanical protection
- Excellent ability to adapt to different forms
- Conforms to BS3924
- Temperature resistance of 0°C to +90°
- Multicoloured assortment



		B mm	Length m	g
141.6010	8 pcs	19,0	10,00	150

Self welding repair tape

- Excellent weather resistance
- Easy to apply due to high elasticity
- Insulates air and water tight, due to self welding characteristics
- Temperature resistance of -40°C to +90°C
- With a tape thickness of 0,5 mm
- Made from Polyisobutylene tape
- For a range of applications in electrical, plumbing and automotive



	Colour code	B mm	Length m	g
141.6000	●	18,0	10,00	100
141.6001	●	38,0	10,00	210

Adhesive tape with protective insulation

- For working enviroment of voltages AC 1000 V and DC 1500 V
- On a roll

	Colour code	B mm	Length m		g
117.4231	●	52,0	10,00		105
117.4232	●	102,0	10,00		190
117.4233	●	102,0	10,00		190

INSTALLATION TOOLS

Cable retraction wire

- ideal for retraction or laying of cables or lines
- with rounded off metal head, the retraction aid can be easily pushed through the tubes
- with eye for fastening the cable or line
- Perlon wire

	Ø mm	Length m	g
150.0960	3,0	10,00	140
150.0970	4,0	20,00	270

cable pull aid

- low friction and high strength
- flexible head attachment
- for navigating in pipes with several bends
- Robust plastic housing

	Ø mm	Length m	kg
115.1113	3,0	30,00	1,20

ELECTRICIANS PEN KNIFE

Electricians pen knife

- Blade folds away
- With sickle blade and downward curved tip that ensures a powerful cut
- Sturdy, practical and very sharp
- Moulded handle made out of wood
- Rust-proof
- Stainless steel

	B mm	L mm	S mm	g
907.2185	37,0	185,0	70,0	60

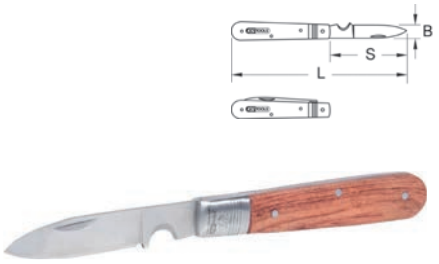
Electricians pen knife

- Retractable blades
- With straight blade
- With sickle blade and downward curved tip that ensures a powerful cut
- Sturdy, practical and very sharp
- Moulded handle made out of wood
- Rust-proof
- Stainless steel

	B mm	L mm	S mm	
907.2186	37,0	185,0	70,0	90

Electricians pen knife

- Blade folds away
- With a straight blade that ensures a powerful cut
- With stripping function for cables
- Sturdy, practical and very sharp
- Moulded handle made out of wood
- Rust-proof
- Stainless steel



	B mm	L mm	S mm	
907.2187	15,0	195,0	85,0	60

Electricians pen knife

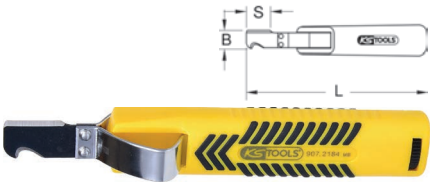
- Retractable blades
- With straight blade and extra narrow pointed blade that provides for a powerful cut
- Sturdy, practical and very sharp
- Moulded handle made out of wood
- Rust-proof
- Stainless steel

	B mm	L mm	S mm	
907.2188	19,0	198,0	90,0	60

STRIPPING TOOLS

Universal cable knife

- For the slitting and stripping of round cable
- Hook blade for the stripping of insulated and flat cable
- Internal knife with adjustable cutting depth, rotating mouting



	Ø mm	B mm	L mm	S mm	
907.2184	28,0	18,0	175,0	24,0	100

Stripping tool for coaxial cable

- Round cut
- Safe and portable form
- 3-stage stripping
- For a stripping capacity of 9,4 - 7,5 mm

	mm²	L1 mm	L2 mm	
115.1243	7,5	90,0	18,0	50

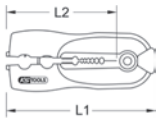
Stripping tool for data cable

- Round cut
- For the stripping of flat and flat oval data cables
- Safety locking device for safe storage

	mm²	L1 mm	L2 mm	
115.1241	2,5-12,0	105,0	72,0	40

Multifunction stripping tool

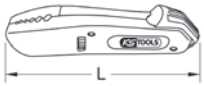
- Round- and length cutting function
- Stripping function
- Cutting function
- For the stripping of flexible and large wire
- Safety locking device for safe storage
- Includes replacement knife set



	mm²	AWG	L1 mm	L2 mm	
115.1251	0,2-0,8	30-20	117,0	85,5	96
115.1252	0,8-2,6	20-10	117,0	85,5	96

Insulation stripping knife

- For stripping all standard round cables
- Cutting depth can be adjusted exactly to thickness of sheath
- The knife automatically switches from round to longitudinal cutting
- Retaining bracket adjustable
- Complete stripping of insulation



	mm²	Ø Wire mm	AWG	L mm	
115.1003	0,5-6,0	4,0-28,0	20-10	143,0	120

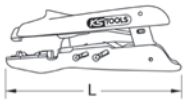
Insulation stripping knife

- For stripping external insulation layers
- Stripping insulation from single- and multiple-wire conductors
- Round and longitudinal cutting

	mm²	Ø Wire mm	L mm	
115.1007	0,5-16,0	4,0-12,0	137,0	81

Insulation stripping knife

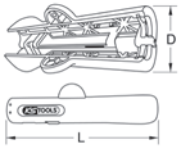
- Basic stripping of insulation from conductors
- The scanning system automatically adapts to the conductor cross-section
- The stranded conductor can then be twisted



	mm²	AWG	L mm	
115.1001	0,5-6,0	20-10	158,0	116

Round cable insulation stripper

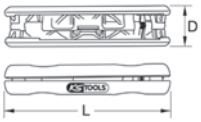
- For round cables and damp-proof cables
- Flush stripping of insulation even in areas that are hard to access, e.g. in ceilings and walls, in junction and distribution boxes and switch cabinets



	Ø Wire mm	L mm	
115.1006	8,0-13,0	125,0	43

Coaxial cable insulation strippers

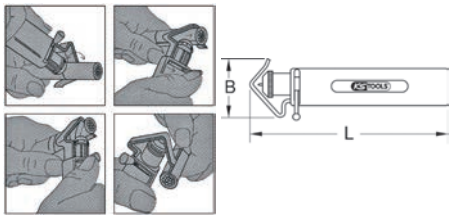
- Gradual stripping of insulation from all coaxial cables with an outer diameter of 4.8 - 7.5 mm
- Equally suitable for flexible cables and 3 x 0.75 mm², 10 mm² and 16 mm² cables



	Ø Wire mm	L mm	
115.1002	4,8-7,5	110,0	30

Universal stripping tool

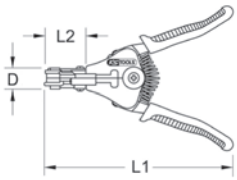
- With round cutting and longitudinal cutting function
- Suited for spiral cutting of hard insulation
- Variable cut depth adjustment through thumb wheel
- For a maximum insulation strength of up to 4,5 mm



	mm²	B mm	L mm	Replacement blades	
115.1256	6-25	41,0	138,0	115.1257	138

Automatic wire stripper

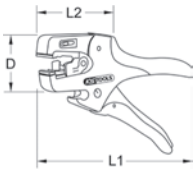
- Allows for stripping of any cable length, therefore ideal for retrofitting auxiliary heating systems, gas systems and other electrical consumers
- Automatically adjusts to the respective diameters
- For the professional and damage-free stripping of electric wires, stranded conductors and cables
- For copper and aluminium wires
- Plastic handle
- Durable clamping jaw for the adherence of the wire
- With return spring
- Smooth running mechanics
- Sturdy design



	Ø mm	AWG	D mm	L1 mm	L2 mm	
115.1028	0,5-2,0	20-14	20,0	170,0	35,0	280
115.1029	1,0-3,2	18-8	20,0	170,0	35,0	280

Self regulating wire stripper

- Easily interchangeable knife modules
- Suitable for single and multi-core cable with popular standard insulation
- Exact adjustment possible for safe stripping
- For the professional and damage-free stripping of electric wires, stranded conductors and cables
- With different length stops from 3.0 – 18.0 mm
- For copper and aluminium wires
- With cutting function
- Lightweight
- Smooth running mechanics



	mm²	AWG	D mm	L1 mm	L2 mm	Replacement blades	
115.1244	0,1-4	28-12	48,0	190,0	73,0	115.1247	130
115.1245	0,02-10	34-8	48,0	190,0	73,0	115.1246	130
115.1249	4-16	10-5	48,0	190,0	73,0	115.1248	130

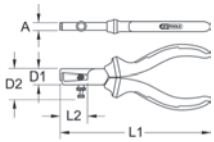
Universal stripping tool

- For insulated cables
- With round cutting and longitudinal cutting function
- Suitable for stripping insulation from damp-proof cables, and for cutting plastic pipes
- Replaceable blade

	mm²		
117.4275	6,0-28,0	117.4276	60

Wire stripper

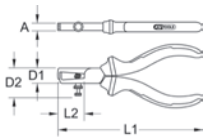
- In accordance to DIN ISO 5232
- Locking jaw opening
- Adjusting screw and spring
- With PVC dipped handle
- For wires from 0,5 - 4.0 mm²
- Matt chrome
- Special tool steel



	A mm	D1 mm	D2 mm	L1 mm	L2 mm	
115.1314	9,0	20,5	33,0	176,0	39,0	170

ERGOTORQUE® wire stripper

- In accordance to DIN ISO 5232
- Locking jaw opening
- Adjusting screw and spring
- Two component handle
- For wires from 0,5 - 4.0 mm²
- Matt chrome
- Special tool steel



	A mm	D1 mm	D2 mm	L1 mm	L2 mm	
115.1014	9,0	20,5	33,0	179,0	39,0	300

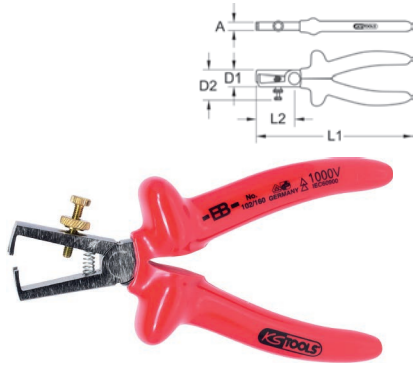
ERGOTORQUE® VDE cable stripper

- In accordance to DIN ISO 5232
- Wrap around insulation to IEC 60900
- Locking jaw opening
- Adjusting screw and spring
- Two component handle
- For wires from 0,8 - 6,0 mm²
- Matt chrome
- Special tool steel

	A mm	D1 mm	D2 mm	L1 mm	L2 mm		
117.1114	10,0	17,5	31,5	160,0	36,0	1000V	210

1000V wire strippers

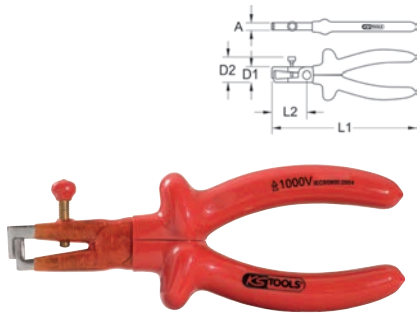
- In accordance to DIN ISO 5232
- Insulated handle to IEC 60900
- Locking jaw opening
- Adjusting screw and spring
- For wires from 0,8 - 6,0 mm²
- Matt chrome
- Special tool steel



	A mm	D1 mm	D2 mm	L1 mm	L2 mm		
117.1271	9,5	18,5	31,5	160,0	44,0	1000V	180

1000V wire strippers

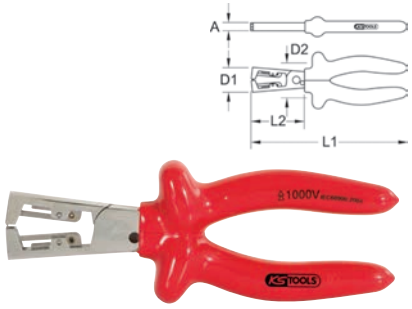
- In accordance to DIN ISO 5232
- Insulated handle to IEC 60900
- With coated working head
- Locking jaw opening
- Adjusting screw and spring
- For wires from 0,8 - 6,0 mm²
- Matt chrome
- Special tool steel



	A mm	D1 mm	D2 mm	L1 mm	L2 mm		
117.1713	11,0	18,5	20,0	160,0	34,0	1000V	180

1000V wire strippers

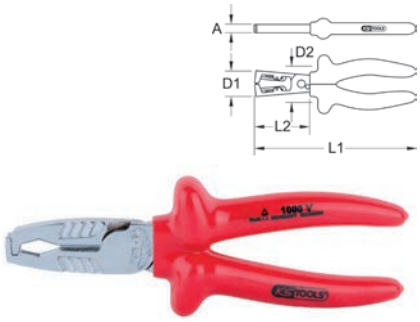
- Insulated handle to IEC 60900
- Self-adjusting
- With replaceable knives
- For wires from 0,5 - 5,0 mm²
- Cutting holes for the separation of cables and wires
- Matt chrome
- Special tool steel



	A mm	D1 mm	D2 mm	L1 mm	L2 mm	Replacement blades	
117.1272	10,5	28,5	47,5	160,0	20,0	117.1258	220

1000V wire strippers

- Insulated handle to IEC 60900
- Multifunctional wire strippers
- Self-adjusting
- With replaceable knives
- For wires from 0,5 - 5,0 mm²
- Cutting holes for the separation of cables and wires
- Matt chrome
- Special tool steel

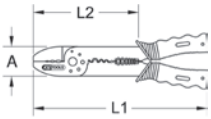


	A mm	D1 mm	D2 mm	L1 mm	L2 mm		
117.1225	10,0	24,0	40,0	185,0	61,0	1000V	260

CRIMPING TOOLS

Multifunction pliers for insulated and non insulated cable terminals

- For professional cable cutting and stripping wires from 0,75 - 6,0 mm²
- For crimping cable terminals and connectors from 1,5 - 6,0 mm²
- Cutting function
- Two component handle
- Pliers body made of flat steel



	A mm	L1 mm	L2 mm	
115.1231	40,0	220,0	130,0	230

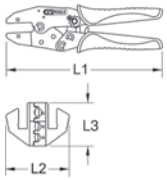
Multifunction crimping pliers set

- For insulated and un-insulated cable terminals
- Includes 270 pcs consumables
- For professional cable cutting and stripping wires from 0,75 - 6,0 mm²
- For crimping cable terminals and connectors from 1,5 - 6,0 mm²
- Cutting function
- Two component handle
- Pliers body made of flat steel
- In durable plastic storage case

115.1230	271 pcs	Multifunction crimping pliers set	560

Crimping pliers for non insulated terminals

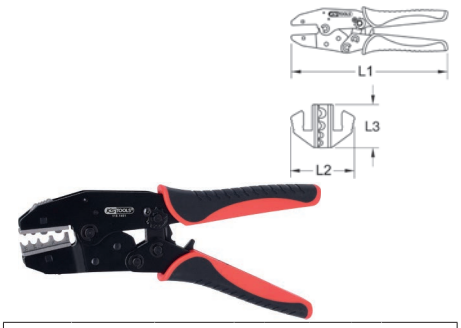
- Extremely robust and reliable
- Safety lock
- Inserts lock and to they click to prevent possible misuse
- Optimal crimping through precision profile
- Ratchet function
- Adjustment of the crimping pressure
- Easy to change the crimp heads through quick locking device
- Two component handle
- Burnished
- Pliers body made of flat steel



	mm²	AWG	L1 mm	L2 mm	L3 mm		
115.1425	0,5-1,0/1,5-2,5/4,0-6,0	22-18/16-14/12-10	220,0	50,0	34,0	115.1415	491

Crimping pliers for insulated terminals

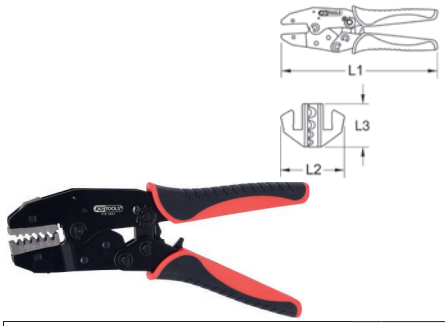
- Extremely robust and reliable
- Safety lock
- Inserts lock and to they click to prevent possible misuse
- Optimal crimping through precision profile
- Ratchet function
- Adjustment of the crimping pressure
- Easy to change the crimp heads through quick locking device
- Two component handle
- Burnished
- Pliers body made of flat steel



	mm²	AWG	L1 mm	L2 mm	L3 mm		
115.1430	1,5/2,5/6,0/10,0	20-18/16-14/12-10/8	220,0	50,0	34,0	115.1416	487

Crimping pliers for pin terminals

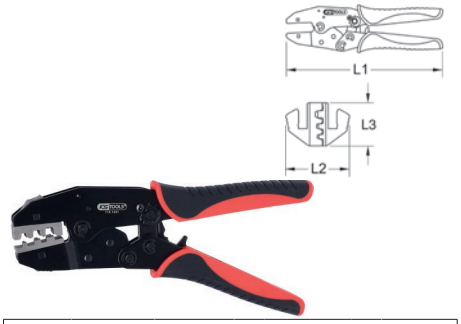
- Extremely robust and reliable
- Safety lock
- Inserts lock and to they click to prevent possible misuse
- Optimal crimping through precision profile
- Ratchet function
- Adjustment of the crimping pressure
- Easy to change the crimp heads through quick locking device
- Two component handle
- Burnished
- Pliers body made of flat steel



	mm²	AWG	L1 mm	L2 mm	L3 mm		g
115.1440	0,5/0,75/1,0/1,5/2,5/4,0	22/20/18/16-14/12-10	220,0	50,0	34,0	115.1418	499
115.1450	6,0/10,0/16,0	10/8/6	220,0	50,0	34,0	115.1420	499

Crimping pliers for spade terminals

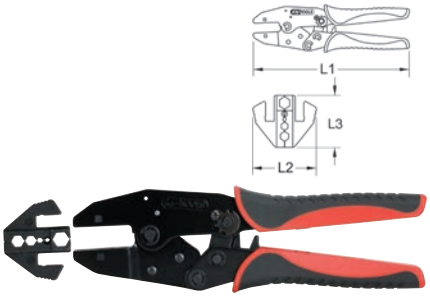
- Extremely robust and reliable
- Safety lock
- Inserts lock and to they click to prevent possible misuse
- Optimal crimping through precision profile
- Ratchet function
- Adjustment of the crimping pressure
- Easy to change the crimp heads through quick locking device
- Two component handle
- Burnished
- Pliers body made of flat steel



	mm²	AWG	L1 mm	L2 mm	L3 mm		g
115.1435	0,5-1,0/1,5-2,5/4,0-6,0	20-18/16-14/12-10	220,0	50,0	34,0	115.1417	499
115.1455	2,5/0,5/8,0/10,0	14-22/8-6	220,0	50,0	34,0	115.1421	505

Crimping pliers for coaxial terminals

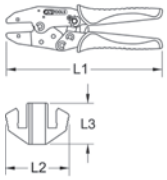
- Extremely robust and reliable
- Safety lock
- Inserts lock and to they click to prevent possible misuse
- Optimal crimping through precision profile
- Ratchet function
- Adjustment of the crimping pressure
- Easy to change the crimp heads through quick locking device
- Two component handle
- Burnished
- Pliers body made of flat steel



	mm²	AWG	L1 mm	L2 mm	L3 mm		g
115.1445	1,72/2,50/5,40/6,48/8,23	RG58/RG59/RG62	220,0	50,0	34,0	115.1419	491

Crimping pliers for Western terminals

- Extremely robust and reliable
- Safety lock
- Inserts lock and to they click to prevent possible misuse
- Optimal crimping through precision profile
- Ratchet function
- Adjustment of the crimping pressure
- Easy change of crimp inserts
- Through quick locking device
- Two component handle
- Burnished
- Pliers body made of flat steel

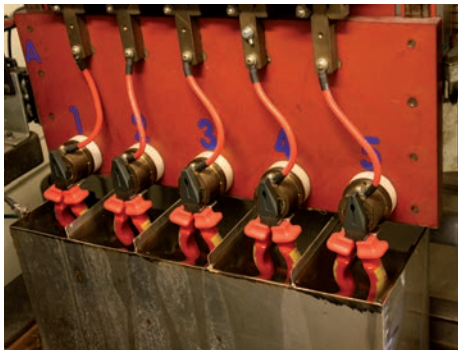


	mm²	AWG	L1 mm	L2 mm	L3 mm		g
115.1460	RJ22	22-24	220,0	50,0	34,0	115.1422	500
115.1465	RJ11/RJ12	22-24	220,0	50,0	34,0	115.1423	505
115.1470	RJ45	22-24	220,0	50,0	34,0	115.1424	505

Electricians crimping pliers set

- Ideal configuration for electricians
- Extremely robust and reliable
- Safety lock
- Inserts lock and to they click to prevent possible misuse
- Optimal crimping through precision profile
- Ratchet function
- Adjustment of the crimping pressure
- Easy to change the crimp heads through quick locking device
- In durable plastic storage case
- Two component handle
- Burnished
- Pliers body made of flat steel

			g
115.1480	3 pcs	Electricians crimping pliers set	910
1 x		220 mm	
1 x		Ø 0,5 - 4,0 mm, H	
1 x		Ø 1,5 - 10,0 mm, B	



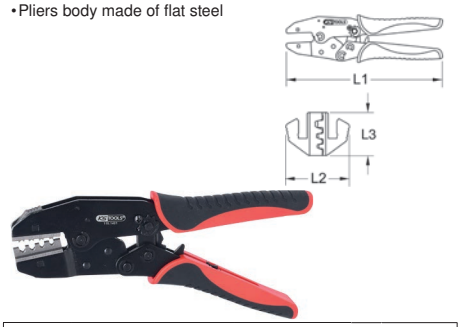
Net working crimping pliers set

- Ideal configuration for network cabling
- Extremely robust and reliable
- Safety lock
- Inserts lock and to they click to prevent possible misuse
- Optimal crimping through precision profile
- Ratchet function
- Adjustment of the crimping pressure
- Easy to change the crimp heads through quick locking device
- In durable plastic storage case
- Two component handle
- Burnished
- Pliers body made of flat steel

			kg
115.1490	5 pcs	Net working crimping pliers set	1,05
1 x		220 mm	
1 x		AWG: 22 - 14 - 6 - 8, H	
1 x		AWG: 22 - 24, G1	
1 x		AWG: 22 - 24, G2	
1 x		AWG: 22 - 24, G3	

Crimping pliers for Solarlok

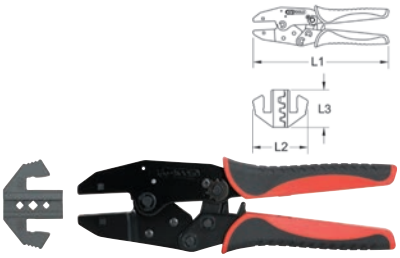
- Extremely robust and reliable
- Safety lock
- Inserts lock and to they click to prevent possible misuse
- Optimal crimping through precision profile
- Ratchet function
- Adjustment of the crimping pressure
- Easy to change the crimp heads through quick locking device
- Two component handle
- Burnished
- Pliers body made of flat steel



	mm²	AWG	L1 mm	L2 mm	L3 mm		g
115.1520	6,0 / 4,0 / 2,5 / 1,5	10 - 15	220,0	50,0	34,0	115.1412	540

Crimping plier for solar coupler MC 3

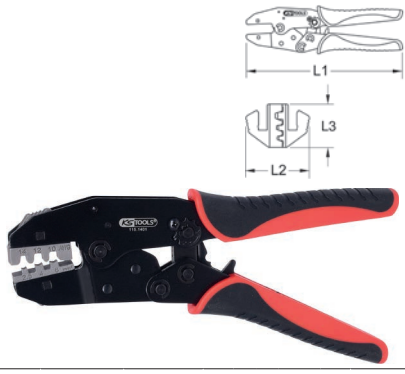
- Extremely robust and reliable
- Safety lock
- Inserts lock and to they click to prevent possible misuse
- Optimal crimping through precision profile
- Ratchet function
- Adjustment of the crimping pressure
- Easy to change the crimp heads through quick locking device
- Two component handle
- Burnished
- Pliers body made of flat steel



	mm²	AWG	L1 mm	L2 mm	L3 mm		g
115.1521	4,0 / 6,0 / 2,5	12 / 10 / 14	220,0	50,0	34,0	115.1413	545

Crimping pliers for solar coupler MC 4

- Extremely robust and reliable
- Safety lock
- Inserts lock and to they click to prevent possible misuse
- Optimal crimping through precision profile
- Ratchet function
- Adjustment of the crimping pressure
- Easy to change the crimp heads through quick locking device
- Two component handle
- Burnished
- Pliers body made of flat steel



	mm²	AWG	L1 mm	L2 mm	L3 mm		g
115.1522	2,5 / 4,0 / 6,0	14 / 12 / 10	220,0	50,0	34,0	115.1414	550

Universal crimping tool set with automatic wire stripper

- Extremely robust and reliable crimping tool
- Safety lock
- Inserts lock and to they click to prevent possible misuse
- Optimal crimping through precision profile
- Ratchet function
- Adjustment of the crimping pressure
- Easy to change the crimp heads through quick locking device
- Two component handle
- Burnished
- Pliers body made of flat steel
- Including self-closing and damage-free automatic wire stripper

			kg
115.1400	283 pcs	Universal crimping tool set with automatic wire stripper	2,37

1 x		220 mm
1 x		Ø 0,5 - 4,0 mm, H
1 x		Ø 1,5 - 10,0 mm, B
1 x		Ø 0,5 - 6,0 mm, C
1 x		Ø 0,5 - 4,0 mm, D
1 x		RG 58 - RG 71, E
1 x		1,0 - 3,2 mm
1 x		

ELECTRICIAN'S TOOL KITS

Socket-set with insulated tools

- Insulated handle to IEC 60900
- Chrome vanadium
- In durable plastic storage case

1/4"

			kg
117.1877	22 pcs	Socket-set with insulated tools	1,60

1 x		1/4"
4 x		1/4": 50 - 75 - 100 - 150 mm
1 x		1/4"
1 x		1/4"
10 x		1/4": 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 14 mm
5 x		1/4": 3 - 4 - 5 - 6 - 8 mm

Socket-set with insulated tools

- Insulated handle to IEC 60900
- Chrome vanadium
- In durable plastic storage case

1/4"

			kg
117.1878	21 pcs	Socket-set with insulated tools	1,90

1 x		1/4": 5 - 25 Nm
4 x		1/4": 50 - 75 - 100 - 150 mm
1 x		1/4"
10 x		1/4": 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 14 mm
5 x		1/4": 3 - 4 - 5 - 6 - 8 mm

Socket-set with insulated tools

- Insulated handle to IEC 60900
- Chrome vanadium
- In durable plastic storage case

1/4"

			kg
117.1876	21 pcs	Socket-set with insulated tools	1,00

1 x		1/4": 5 - 25 Nm
3 x		1/4": 75 - 100 - 150 mm
2 x		1/4"
5 x		1/4": 6 - 8 - 10 - 13 - 14 mm
3 x		1/4": 5 - 6 - 8 mm
3 x		1/4": 4 - 5,5 - 6,5 mm
2 x		1/4": PH1 - PH2
2 x		1/4": PZ1 - PZ2

Socket-set with insulated tools

- Insulated handle to IEC 60900
- Chrome vanadium
- In durable plastic storage case

3/8"

			kg
117.1882	16 pcs	Socket-set with insulated tools	3,80

1 x		3/8"
2 x		3/8": 125 - 250 mm
1 x		3/8"
8 x		3/8": 10 - 11 - 12 - 13 - 14 - 17 - 19 22 mm
3 x		3/8": 5 - 6 - 8 mm
1 x		25 Nm

Socket-set with insulated tools

- Insulated handle to IEC 60900
- Chrome vanadium
- In durable plastic storage case

3/8"

			kg
117.1850	16 pcs	Socket-set with insulated tools	4,00

1 x		3/8“
2 x		3/8“: 125 - 250 mm
1 x		3/8“
8 x		3/8“: 10 - 11 - 12 - 13 - 14 - 17 - 19 - 22 mm
3 x		3/8“:5 - 6 - 8 mm
1 x		3,5 mm

Socket-set with insulated tools

- Insulated handle to IEC 60900
- Chrome vanadium
- In durable plastic storage case

3/8"

			kg
117.1881	14 pcs	Socket-set with insulated tools	3,87

1 x		3/8“: 5 - 50 Nm
2 x		3/8“: 125 - 250 mm
5 x		3/8“: 10 - 13 - 14 - 17 - 19 mm
5 x		3/8“: 4 - 5 - 6 - 8 - 10 mm
1 x		3/8“: 95 - 150 mm

Socket-set with insulated tools

- Insulated handle to IEC 60900
- Chrome vanadium
- In durable plastic storage case

3/8"

			kg
117.1886	13 pcs	Socket-set with insulated tools	2,56

1 x		3/8“
2 x		3/8“: 125 - 250 mm
1 x		3/8“
5 x		3/8“: 8 - 10 - 13 - 17 - 19 mm
4 x		3/8“: 4 - 5 - 6 - 8 mm

Socket-set with insulated tools

- Insulated handle to IEC 60900
- Chrome vanadium
- In durable plastic storage case

3/8"

			kg
117.1885	16 pcs	Socket-set with insulated tools	3,40

1 x		3/8“
2 x		3/8“: 125 - 250 mm
3 x		3/8“: 13 - 17 - 19 mm
4 x		3/8“: 5 - 6 - 8 - 10 mm
1 x		3/8“: 5 mm
1 x		2,5 mm
2 x		5 - 6 mm
1 x		Ø 25mm
1 x		160 mm

Socket-set with insulated tools

- Insulated handle to IEC 60900
- Chrome vanadium
- In durable plastic storage case

3/8"

			kg
117.1888	13 pcs	Socket-set with insulated tools	2,40

1 x		3/8“
2 x		3/8“: 125 - 250 mm
1 x		3/8“
5 x		3/8“: 8 - 10 - 13 - 17 - 19 mm
4 x		3/8“: 4 - 5 - 6 - 8 mm

Socket-set with insulated tools

- Insulated handle to IEC 60900
- Chrome vanadium
- In durable plastic storage case

3/8"

			kg
117.1887	11 pcs	Socket-set with insulated tools	1,80

1 x		3/8“
1 x		3/8“: 125 mm
5 x		3/8“: 8 - 10 - 13 - 17 - 19 mm
4 x		3/8“: 4 - 5 - 6 - 8 mm

Socket-set with insulated tools

- Insulated handle to IEC 60900
- Chrome vanadium
- In durable plastic storage case

3/8"

			kg
117.1889	11 pcs	Socket-set with insulated tools	1,75
1 x		3/8“	
1 x		3/8“: 125 mm	
5 x		3/8“: 8 - 10 - 13 - 17 - 19 mm	
4 x		3/8“: 4 - 5 - 6 - 8 mm	

Socket-set with insulated tools

- Insulated handle to IEC 60900
- Chrome vanadium
- In durable plastic storage case

1/2"

			kg
117.1883	15 pcs	Socket-set with insulated tools	3,99
1 x		1/2“	
2 x		1/2“: 125 - 250 mm	
1 x		1/2“	
8 x		1/2“: 10 - 12 - 13 - 14 - 17 - 19 - 22 24 mm	
3 x		1/2“: 5 - 6 - 8 mm	

Socket-set with insulated tools

- In accordance to DIN 7448 / 7434 / 7449
- Insulated handle to IEC 60900
- Square drive adaptor to DIN 3120
- In durable plastic storage case

1/2"

			kg
117.0600	9 pcs	Socket-set with insulated tools	2,07
1 x		270 mm	
7 x		10 - 13 - 14 - 16 - 17 - 19 - 21 mm	
1 x		125 mm	

Socket-set with insulated tools

- Insulated handle to IEC 60900
- In durable plastic storage case

1/2"

			kg
117.1860	16 pcs	Socket-set with insulated tools	4,50
1 x		1/2“	
2 x		1/2“: 125 - 250 mm	
1 x		1/2“	
8 x		1/2“: 10 - 12 - 13 - 14 - 17 - 19 - 22 - 24 mm	
3 x		1/2“: 5 - 6 - 8 mm	
1 x		3,5 mm	

Tool set with insulated tools

- Insulated handle to IEC 60900
- Plastic case with foam protection material
- Special tool steel

			kg
117.1870	20 pcs	Tool set with insulated tools	4,50
1 x		205 mm	
1 x		160 mm	
1 x		200 mm	
1 x		180 mm	
1 x		160 mm	
1 x		160 mm	
1 x		6 - 400 V	
3 x		8 - 10 - 13 mm	
6 x		2,5 - 3,5 - 5,5 - 6,5 - 8,0 - 10,0 mm	
2 x		PH1 - PH2	
1 x		210 mm	
1 x		182 mm	

Tool set with insulated tools

- Insulated handle to IEC 60900
- Foam material inserts in durable plastic case
- Special tool steel

1/2"

			kg
117.1840	26 pcs	Tool set with insulated tools	5,00
1 x		205 mm	

1 x	160 mm
1 x	200 mm
1 x	1/2“
1 x	250 mm
1 x	210 mm
1 x	182 mm
7 x	10 - 11 - 12 - 13 - 14 - 17 - 19 mm
7 x	10 - 11 - 12 - 13 - 14 - 17 - 19 mm
1 x	6 - 400 V
4 x	3,5 - 5,5 - 6,5 - 8,0 mm

Tool set with insulated tools

- Insulated handle to IEC 60900
- Made out of red leather
- With carrying strap
- Special tool steel

			kg
117.1872	14 pcs	Tool set with insulated tools	4,50
1 x		185 mm	
1 x		160 mm	
1 x		200 mm	
1 x		210 mm	
3 x		2,5 - 4,0 - 5,5 mm	
4 x		7 - 8 - 9 - 10 mm	
1 x		Gr. 10	
1 x		200 mm	
1 x		12 - 750 V	

Basic electrians tool set

- Ideal starter set
- Aluminium edges
- With carrying handle
- Black leather carrying case

			kg
117.0180	30 pcs	Basic electrians tool set	9,00
1 x			
1 x		300 g	
1 x		1000 g	
1 x		Ø 16 mm	
1 x		Ø 16 mm	
1 x		40 mm	
1 x		# 2	
1 x		2 m	
1 x			
1 x		400 mm	
1 x		3 mm	
4 x		3,5 - 4 - 5,5 - 6,5 mm	
3 x		PH 0 - PH 1 - PH 2	
1 x		160 mm	
1 x		150 mm	
1 x		175 mm	
1 x		200 mm	
1 x		250 mm	

Basic electrians tool set

- Ideal starter set
- With carrying handle
- Durable metal case

			kg
117.0181	30 pcs	Basic electrians tool set	8,83
1 x			
1 x		300 g	
1 x		1000 g	
1 x		Ø 16 mm	
1 x		Ø 16 mm	
1 x		40 mm	
1 x		# 2	
1 x		2 m	
1 x			
1 x		400 mm	
1 x		3 mm	
4 x		3,5 - 4 - 5,5 - 6,5 mm	
3 x		PH 0 - PH 1 - PH 2	
1 x		160 mm	
1 x		150 mm	
1 x		175 mm	
1 x		200 mm	
1 x		250 mm	

Premium Max electrians tool set

- Carrying handle
- An extendable pull handle
- Pull handle with locking knob
- Aluminium edges
- Two rollers
- Durable ABS storage case

			kg
117.0195	195 pcs	Premium Max electrians tool set	13,20
1 x		10" , 250 mm	
1 x			
1 x			
1 x		1/4": 918.0646	
1 x		1/4"	
1 x		1/4": 911.2026	
1 x		300 g	
1 x		1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm	
1 x		3 m x 19 mm	
1 x		500.7165	
1 x		8 - 9 - 10 - 11 - 12 - 13 - 14 - 17 - 19 mm	
1 x		3 mm	
4 x		2,5 - 4 - 5,5 - 6,5 mm	
3 x		PH 0 - PH 1 - PH 2	
1 x		160 mm	
1 x		150 mm	
1 x		175 mm	
1 x		200 mm	
1 x		200 mm	
1 x		200 mm	
1 x		250 mm	

Premium electrians tool set

- Carrying strap and handle
- Durable nylon case

			kg
117.0190	132 pcs	Premium electrians tool set	11,21
1 x			
1 x		300 g	
1 x		1000 g	
1 x		Ø 16 mm	
1 x		Ø 16 mm	
1 x		40 mm	
1 x		# 2	
1 x		2 m	
1 x			
1 x		6 - 400 V	
1 x			
1 x		400 mm	
1 x			
1 x		1/4": 911.2060	
1 x		1/4": 918.0640	
1 x		2,0 - 2,5 - 3,0 - 4,0 - 5,0 - 6,0 - 8,0 10,0 mm	
1 x			
1 x		5 m x 19 mm	
1 x		8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 17 - 18 - 19 mm	
1 x		8" , 200 mm	
1 x		3,0 mm	
4 x		3,5 - 4,0 - 5,5 - 6,5 mm	
3 x		PH 0 - PH 1 - PH 2	
1 x		160 mm	
1 x		150 mm	
1 x		175 mm	
1 x		200 mm	
1 x		250 mm	

Electrians tool set

- Ideal set for electrians
- Can be used by hand or with an electric screwdriver
- Ideally suited for fittings in trade and industry
- 6 point
- FlankTraction profile
- Matt finish
- Chrome vanadium
- In a classy aluminium case

1/4" 1/2"

			kg
911.0628	128 pcs	Electrians tool set	10,88
12 x		1/4": 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm	
12 x		1/2": 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 21 - 22 mm	
2 x		1/4": 50 - 100 mm	
1 x		1/2": 125 mm	
2 x		1/4" - 1/2"	
1 x		1/4": 110 mm	
1 x		28 mm	
1 x			
1 x			
1 x		28 mm	
1 x		145 mm	
1 x		300 g	
3 x		HB	
1 x		250 mm	
1 x		250x25 mm	
1 x		38 mm	
1 x		2 m	
1 x		300 mm	
1 x		1/4": 911.2060	
1 x		1/4": 205 mm	

1 x		1/4“: 145 mm
1 x		1/2“: 250 mm
9 x		1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm
1 x		5 m
18 x		100 mm
10 x		8 - 10 - 11 - 12 - 13 - 14 - 15 - 17 - 19 - 22 mm
1 x		150 - 250 V
4 x		2,5 - 4 - 5,5 - 6,5 mm
2 x		PH1 - PH2
1 x		160 mm
1 x		160 mm
1 x		170 mm
1 x		165 mm

Tool set with insulated tools

- Insulated handle to IEC 60900
- Made out of red leather
- With carrying strap
- Special tool steel

			kg
117.1830	36 pcs	Tool set with insulated tools	9,40

1 x		205 mm
1 x		160 mm
1 x		200 mm
1 x		160 mm
7 x		10 - 11 - 12 - 13 - 14 - 17 - 19 mm
7 x		10 - 11 - 12 - 13 - 14 - 17 - 19 mm
1 x		3/8“
2 x		8 - 9 mm
2 x		4,0 - 5,5 mm
1 x		210 mm
1 x		182 mm
1 x		130 x 130 x 1,6 mm
1 x		250 x 350 x 1,6 mm
1 x		1000 x 1000 x 1,6 mm
2 x		80 mm
2 x		160 mm
1 x		Ø 30 mm
1 x		12 - 750 V

Professional electrians tool set

- Insulated handle to IEC 60900
- For working enviroment of voltages AC 1000 V and DC 1500 V
- Made out of red leather
- With carrying strap

			kg
117.1871	55 pcs	Professional electrians tool set	13,34

1 x		185 mm
1 x		160 mm
1 x		200 mm
1 x		160 mm
1 x		215 mm
6 x		10 - 13 - 14 - 17 - 19 - 22 mm
6 x		10 - 13 - 14 - 17 - 19 - 22 mm
1 x		1/2“
2 x		125 - 250 mm
1 x		1/2“
9 x		10 - 11 - 12 - 13 - 14 - 17 - 19 - 22 24 mm
1 x		210 mm
1 x		182 mm
3 x		130 x 130 mm
3 x		250 x 350 mm
3 x		500 x 500 mm
2 x		80 mm
6 x		160 mm
1 x		Gr. 9
1 x		260 mm
4 x		2,5 - 4,0 - 5,5 - 6,5 mm

Professional electrians tool set

- Insulated handle to IEC 60900
- For working enviroment of voltages AC 1000 V and DC 1500 V
- Made out of red leather
- With carrying strap

			kg
117.1820	53 pcs	Professional electrians tool set	13,00

1 x		185 mm
1 x		160 mm
1 x		200 mm
1 x		160 mm
1 x		215 mm
6 x		10 - 13 - 14 - 17 - 19 - 22 mm
6 x		10 - 13 - 14 - 17 - 19 - 22 mm
1 x		1/2“
2 x		125 - 250 mm
1 x		1/2“
9 x		10 - 11 - 12 - 13 - 14 - 17 - 19 - 22 24 mm
1 x		210 mm
1 x		182 mm
3 x		130 x 130 mm
3 x		250 x 350 mm
3 x		500 x 500 mm
2 x		80 mm
4 x		160 mm
1 x		# 9
1 x		260 mm
4 x		2,5 - 4,0 - 5,5 - 6,5 mm

Professional electrians tool set

- Insulated handle to IEC 60900
- Robust hard shell toolcase

			kg
117.1810	30 pcs	Professional electrians tool set	9,40

1 x		185 mm
1 x		160 mm
1 x		200 mm
1 x		200 mm
1 x		160 mm
1 x		160 mm
1 x		180 mm
2 x		5 - 6 mm
5 x		2,5 - 4,0 - 5,5 - 6,5 - 8,0 mm
2 x		PH1 - PH2
2 x		PZ1 - PZ2
4 x		5,5 - 6,0 - 7,0 - 8,0 mm
1 x		210 mm
1 x		175 mm
1 x		215 mm
1 x		12 - 750 V
1 x		380 mm
1 x		Gr. 10
1 x		260 mm
1 x		10 m

Hard shell toolcase, empty

- Strong hard protective case made from impact resistant plastic with hardened aluminium frame
- Document compartment in upper lid
- 2 removable tool boards for indvidual tool mounting
- Lower case shell is on divisible through internal dividers
- Lockable through two locking fastening catches
- Carrying handle with telescopic removable frame
- Capacity up to 30 kg

		kg
117.1810-99	Hard shell toolcase, empty	5,00

Toolcase, empty

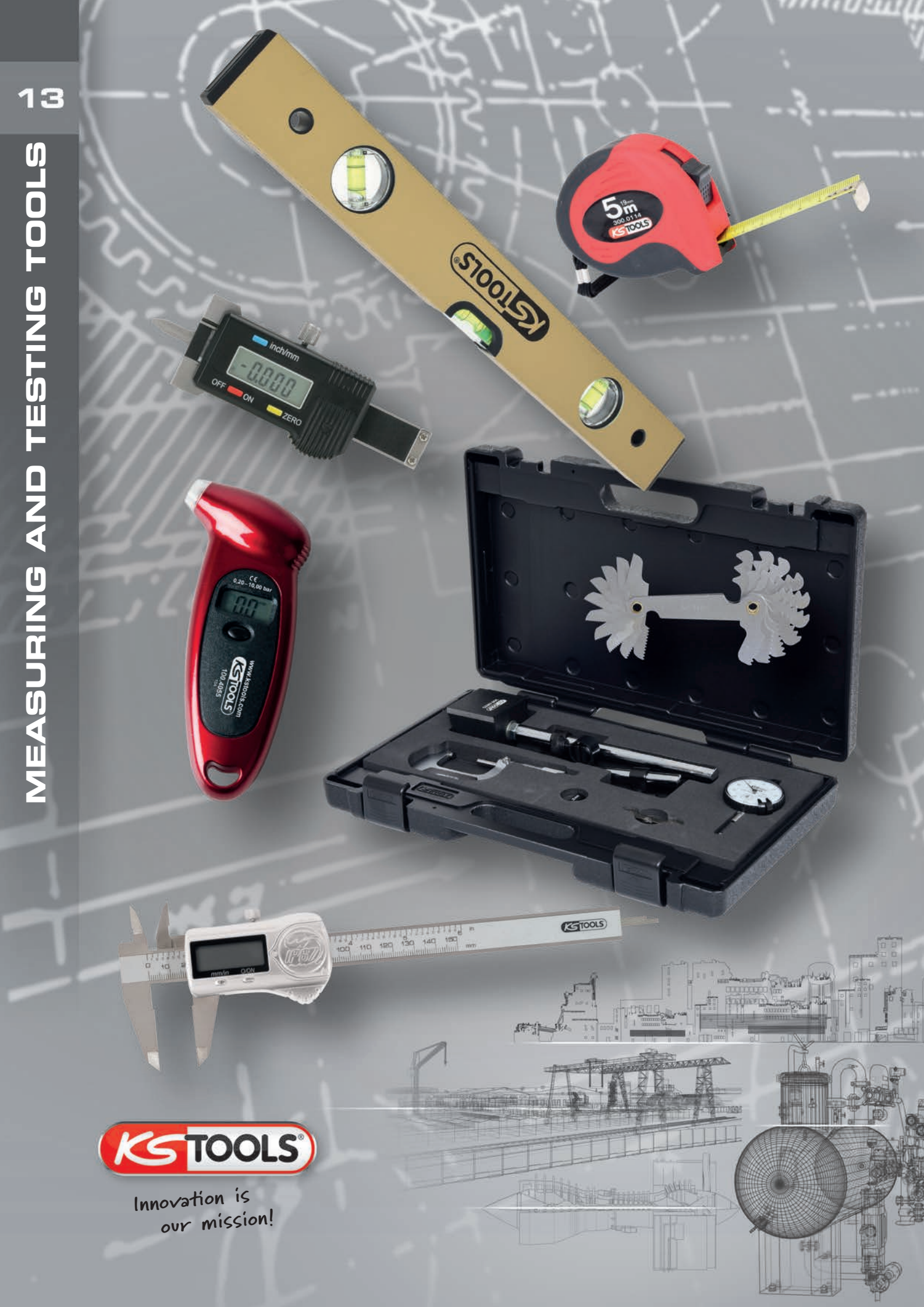
- Made out of red leather
- With carrying strap
- Front and middle wall can be folded down
- Robust design to hold approx. 50 tools and protective parts of your choice
- Chromed fittings

		kg
117.1820-99	Toolcase, empty	4,30

Toolcase, empty

- Made out of red leather
- With carrying strap
- Front wall removable
- Durable sheet metal base
- Tool holders for 40 VDE tools and choice of protection
- Specially for meter assembly

		kg
117.1830-99	Toolcase, empty	3,40



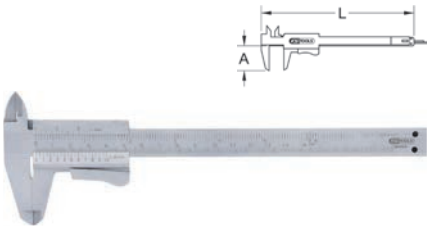
KS TOOLS®

Innovation is our mission!

ANALOGUE VERNIER CALLIPERS

Pocket vernier calliper 0 - 150 mm

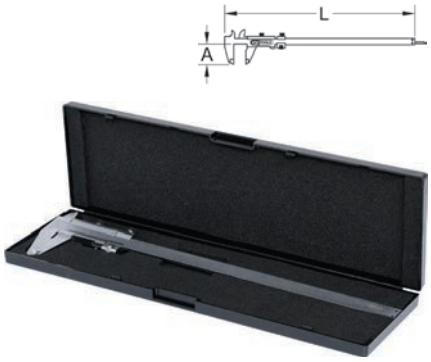
- In accordance with DIN 862
- Instant declaration
- For external, internal, step and depth measurements
- Scale division in black
- Measuring bar in mm and imperial divisions
- Thread table
- Entirely hardened, finely engineered
- Stainless steel
- In leather case



	Measuring range mm	A mm	L mm	Display accuracy mm	Depth gauge	g
300.0510	0 - 150	40,0	235,0	+/- 0,05	flat	145

Workshop vernier calliper 0 - 300 mm

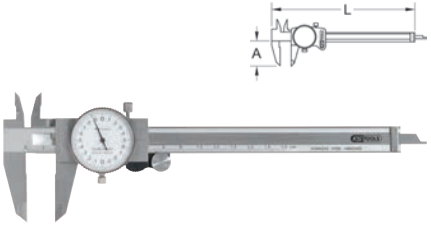
- In accordance with DIN 862
- Locking screw
- For external, internal, step and depth measurements
- Scale division in black
- Measuring bar in mm divisions
- Entirely hardened, finely engineered
- Stainless steel
- In durable plastic case



	Measuring range mm	A mm	L mm	Display accuracy mm	Depth gauge	g
300.0515	0 - 300	55,0	415,0	+/- 0,05	flat	250

Dial vernier calliper 0 - 150 mm

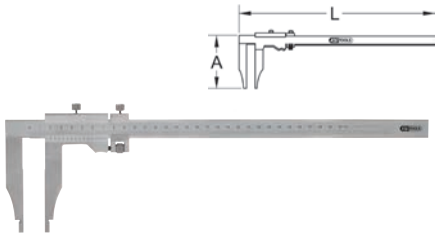
- In accordance with DIN 862
- Fixed adjusting screw and revolving scale reading
- For external, internal, step and depth measurements
- Scale division in black
- Measuring bar in mm divisions
- Thread table
- Entirely hardened, finely engineered
- Stainless steel
- In durable plastic case



	Measuring range mm	A mm	L mm	Display accuracy mm	Depth gauge	Pointer revolution mm	g
300.0547	0 - 150	40,0	236,0	+/- 0,02	flat	1,0	215

Workshop vernier calliper without points 0 - 500 mm

- In accordance with DIN 862
- Locking screw
- For external and internal measurements
- Scale division in black
- Measuring bar in mm and imperial divisions
- Entirely hardened, finely engineered
- Stainless steel
- In durable plastic case

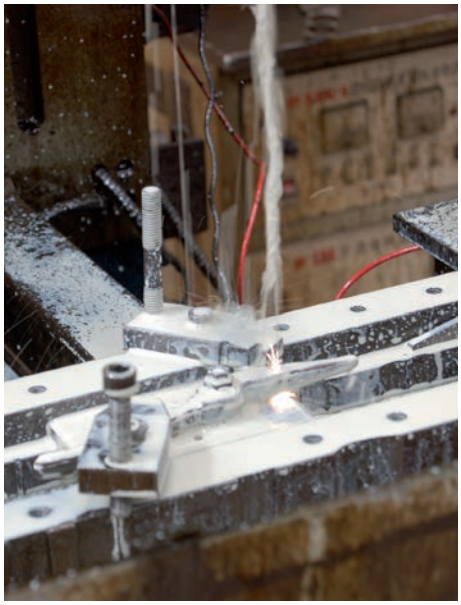


	Measuring range mm	A mm	L mm	Display accuracy mm	g
300.0541	0 - 200	60,0	315,0	+/- 0,05	360
300.0542	0 - 250	90,0	365,0	+/- 0,05	390
300.0543	0 - 300	90,0	415,0	+/- 0,05	415
300.0544	0 - 400	125,0	550,0	+/- 0,05	950
300.0545	0 - 500	150,0	650,0	+/- 0,05	1495
300.0546	0 - 500	200,0	650,0	+/- 0,05	1980

Brake drum calliper 0 - 500 mm

- In accordance with DIN 862
- Locking screw
- For external and internal measurements
- Scale division in black
- Fine adjustment
- Measuring bar in mm divisions
- Thread table
- Internal measure has direct reading
- Entirely hardened, finely engineered
- Stainless steel

	Inner measuring range mm	Outer measuring range mm	A mm	L mm	Display accuracy mm	g
300.0525	0 - 300	40 - 340	95,0	410,0	+/- 0,02	500
300.0530	0 - 500	60 - 560	150,0	660,0	+/- 0,05	1380



DIGITAL VERNIER CALLIPERS

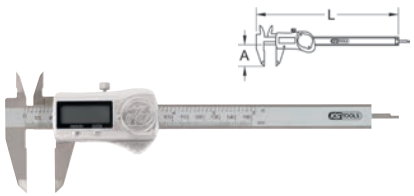
Digital vernier calliper 0 - 150 mm

- In accordance with DIN 862
- With fixed adjusting screw and fine rolling adjustment
- For external, internal, step and depth measurements
- Scale division in black
- Measuring bar in mm and imperial divisions
- mm/imperial switching
- Thread table
- Reset (to zero) in every position possible
- Large LCD display - figure height 10.0 mm
- With automatic switching off
- Entirely hardened, finely engineered
- Stainless steel
- In durable plastic case

	Measuring range mm	A mm	L mm	Display accuracy mm	Depth gauge	g
300.0532	0 - 150	40,0	235,0	+/- 0,03	flat	300

IP67 digital vernier calliper 0 - 150 mm

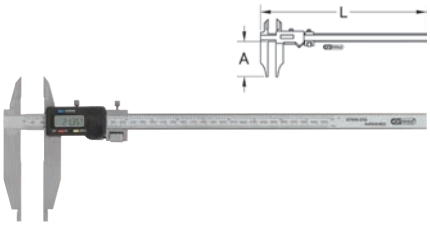
- Accuracy according to works standard
- Protection class IP67
- Locking screw
- For external, internal, step and depth measurements
- Scale division in blue
- Measuring bar in mm divisions
- mm/imperial switching
- Thread table
- Reset (to zero) in every position possible
- Large LCD display figure height 6,0 mm
- With automatic switching off
- Entirely hardened, finely engineered
- Stainless steel
- In durable plastic case



	Measuring range mm	A mm	L mm	Display accuracy mm	Depth gauge	g
300.0531	0 - 150	40,0	240,0	+/- 0,03	flat	150

Workshop vernier calliper without points 0 - 1000 mm

- In accordance with DIN 862
- Locking screw
- For external and internal measurements
- mm/imperial switching
- Reset (to zero) in every position possible
- Knife points
- Fine adjustment
- Large LCD display figure height 6,0 mm
- With automatic switching off
- Entirely hardened, finely engineered
- Stainless steel
- In durable plastic case

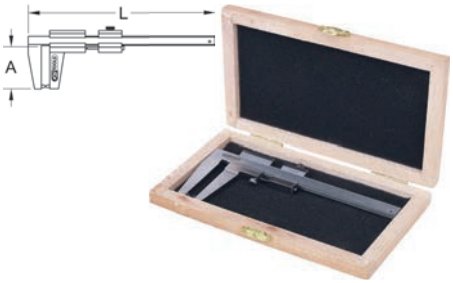


	Measuring range mm	A mm	L mm	Display accuracy mm	kg	
300.0559	0 - 300	90,0	440,0	+/- 0,03	1,14	
300.0562	0 - 500	150,0	670,0	+/- 0,03	2,86	
300.0563	0 - 1000	150,0	1220,0	+/- 0,03	4,90	

BRAKE DISK VERNIER CALLIPERS

Brake disk vernier calliper 0 - 90 mm

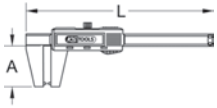
- In accordance with DIN 862
- Locking screw
- Scale division in black
- Precision scale division in mm
- Drag nonius for fixation of measured values
- Vernier and scale satin finish
- Stainless steel
- In durable case



	Measuring range mm	A mm	L mm	Display accuracy mm	g	
300.0535	0 - 60	55,0	162,0	+/- 0,01	130	
300.0536	0 - 90	120,0	255,0	+/- 0,01	135	

Digital brake disk vernier calliper 0 - 60 mm

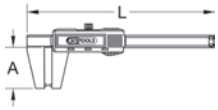
- In accordance with DIN 862
- Locking screw
- For internal measurements
- Scale division in black
- Measuring bar in mm and imperial divisions
- mm/imperial switching
- Hold button for fixing measured value
- Reset (to zero) in every position possible
- Large LCD display - figure height 10.0 mm
- With automatic switching off
- Entirely hardened, finely engineered
- Stainless steel
- In durable plastic case



	Measuring range mm	A mm	L mm	Display accuracy mm	g	
300.0540	0 - 60	55,0	160,0	+/- 0,03	130	

Digital brake drum vernier calliper 0 - 100 mm

- In accordance with DIN 862
- mm/imperial switching
- Hold button for fixing measured value
- Reset (to zero) in every position possible
- LCD display - figure height 6,0 mm
- With automatic switching off
- Stainless steel, hardened
- In durable plastic case



	Measuring range mm	A mm	L mm	Display accuracy mm	g	
300.0539	0 - 100	95,0	207,0	+/- 0,03	155	

Brake disc calliper gauge 200 - 400 mm

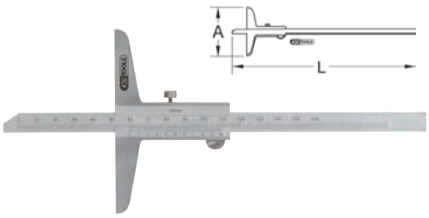
- Allows identification of the brake disc diameter without disassembling the wheels
- Universal usage
- Quick identification of the braking system
- No wrong ordering of brake pads or brake discs
- Quick and efficient
- Saves a lot of time

	Measuring range mm	Length mm	kg	
300.0506	200 - 400	455,0	1,52	

DEPTH VERNIER CALLIPERS

Depth gauge 0 - 500 mm

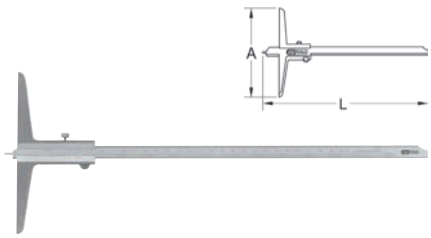
- In accordance with DIN 862
- Locking screw
- Vernier scale two sided accurate laser scales
- Scale division in black
- Measuring bar in mm divisions
- Entirely hardened, finely engineered
- Stainless steel
- In durable plastic case



	Measuring range mm	A mm	L mm	Display accuracy mm	g	
300.0571	0 - 150	100,0	225,0	+/- 0,02	160	
300.0572	0 - 200	100,0	275,0	+/- 0,02	174	
300.0573	0 - 250	125,0	340,0	+/- 0,02	180	
300.0574	0 - 300	125,0	382,0	+/- 0,02	285	
300.0575	0 - 300	150,0	382,0	+/- 0,02	300	
300.0576	0 - 400	150,0	480,0	+/- 0,02	370	
300.0577	0 - 500	150,0	580,0	+/- 0,02	406	

Depth vernier calliper with feeler pin 0 - 500 mm

- In accordance with DIN 862
- Locking screw
- Vernier scale two sided accurate laser scales
- Scale division in black
- Measuring bar in mm divisions
- Entirely hardened, finely engineered
- Hardened feeler pin
- Stainless steel
- In durable plastic case



	Measuring range mm	A mm	L mm	Display accuracy mm	Ø Feeler pin mm	g	
300.0551	0 - 80	50,0	160,0	+/- 0,02	1,0	70	
300.0552	0 - 150	100,0	231,0	+/- 0,02	1,5	150	
300.0553	0 - 200	100,0	281,0	+/- 0,02	1,5	170	
300.0554	0 - 300	150,0	390,0	+/- 0,02	2,0	300	
300.0561	0 - 500	150,0	590,0	+/- 0,02	2,0	406	

Digital tyre pressure and thread gauge 0,35 - 6,80 bar

- Precise and repeatable LCD measurement
- For depth measurements
- For tyre pressure measurements
- Measurement with acoustic signal
- Pressure measurement range can be switched between bar, kpa and PSI
- Low energy consumption due to automatic shutdown
- Includes batteries, key chain and belt clip

	Measuring range bar	Profil depth blade in mm	g
100.4060	0,35-6,80	0,0-15,0	90

Digital depth gauge 0 - 25 mm

- In accordance with DIN 862
- Locking screw
- For depth measurements
- mm/imperial switching
- Reset (to zero) in every position possible
- Large LCD display figure height 8.0 mm
- With automatic switching off
- Entirely hardened, finely engineered
- Stainless steel
- In durable plastic case

	Measuring range mm	A mm	L mm	Display accuracy mm	g
300.0550	0 - 25	40,0	125,0	+/- 0,03	100

Digital depth vernier calliper 0 - 500 mm

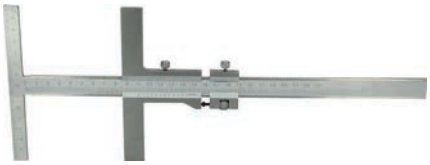
- In accordance with DIN 862
- Locking screw
- For depth measurements
- Scale division in black
- mm/imperial switching
- Reset (to zero) in every position possible
- Large LCD display - figure height 10.0 mm
- With automatic switching off
- Entirely hardened, finely engineered
- Stainless steel
- In durable plastic case

	Measuring range mm	A mm	L mm	Display accuracy mm	kg
300.0549	0 - 500	200,0	580,0	+/- 0,03	1,15

MARK-OUT VERNIER CALLIPER

Marking Caliper 0 - 500 mm

- Locking screw
- Scale division in black
- Precision scale division in mm
- Drag nonius for fixation of measured values
- Vernier and scale satin finish
- Stainless steel
- In durable case



	Measuring range mm	A mm	L mm	Display accuracy mm	g
300.1561	0 - 160	100,0	275,0	+/- 0,05	645
300.1562	0 - 250	140,0	375,0	+/- 0,05	745
300.1563	0 - 300	160,0	425,0	+/- 0,05	825
300.1564	0 - 500	160,0	625,0	+/- 0,05	1065

MICROMETER & MOUNT

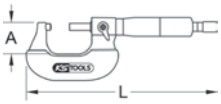
Micrometer

- In accordance with DIN 863
- With measurement locking screw
- Measuring force rule through ratchet sensation
- Spindle made out of hardened steel
- Measuring surfaces with hard metal tips
- With hand warmth insulation
- Stainless steel
- In durable plastic case

	Measuring range mm	A mm	L mm	Display accuracy mm	Ø Spindle mm	Ø Drum mm	Ø Spindle pitch mm	g
300.0555	0-25	30,0	130,0	+/- 0,01	6,5	17,0	0,5	300
300.0556	25-50	35,0	165,0	+/- 0,01	6,5	17,0	0,5	315
300.0557	50-75	46,0	190,0	+/- 0,01	6,5	17,0	0,5	370
300.0558	75-100	58,0	220,0	+/- 0,01	6,5	17,0	0,5	485

Digital outside micrometre

- DIN 863
- With measurement locking screw
- Measuring force rule through ratchet sensation
- Measuring surfaces with hard metal tips
- With hand warmth insulation
- Stainless steel
- 2 mm feed enables quick measurement
- IP54
- Large LCD display
- With automatic switching off
- In durable plastic case



	Measuring range mm	A mm	L mm	Display accuracy mm	Ø Spindle mm	Ø Drum mm	Ø Spindle pitch mm	g
300.0580	0-25	24,0	160,0	+/- 0,01	6,5	17,0	0,5	310
300.0581	25-50	32,0	180,0	+/- 0,01	6,5	17,0	0,5	320
300.0582	50-75	45,0	205,0	+/- 0,01	6,5	17,0	0,5	370
300.0583	75-100	57,0	220,0	+/- 0,01	6,5	17,0	0,5	390

Holder for external micrometers

- For external micrometers up to 300 mm
- Clamp opening 16mm
- Clamping jaws made out of plastic
- Inclinable locking facility
- Heavy standing foot
- Cast iron

		kg
300.0680	Holder for external micrometers	1,80

Set of outside micrometres

- In accordance with DIN 863
- With measurement locking screw
- Measuring force rule through ratchet sensation
- Spindle made out of hardened steel
- Measuring surfaces with hard metal tips
- With hand warmth insulation
- Stainless steel
- In durable plastic storage case

			kg
300.0538	4 pcs	Set of outside micrometres	1,57

consists of:

		g
300.0555	Micrometer, 0-25mm	300
300.0556	Micrometer, 0-50mm	315
300.0557	Micrometer, 50-75mm	370
300.0558	Micrometer, 75-100mm	485

DIAL GAUGES

Precision dial indicator gauge 0 - 10 mm

- In accordance with DIN 878
- With securing screw and turnable dial face
- Shockproof
- Splash proofed
- Measuring tip protected against contamination by a bellowed sleeve
- Clamping shaft Ø 8 mm H6
- With 2 measuring scales
- Spindle and clamping shaft made from stainless steel
- In durable plastic case

	Measuring range mm	D mm	Display accuracy mm	Pointer revolution mm	g
300.0560	0 - 10	60,0	+/- 0,01	1,0	260

Digital precision dial indicator gauge 0 - 10 mm

- mm/imperial switching
- Reset (to zero) in every position
- Large LCD display figure height 6,0 mm
- Clamping shaft Ø 8 mm H6
- With automatic switching off
- Spindle and clamping shaft made from stainless steel
- In durable wooden case

	Measuring range mm	D mm	Display accuracy mm	g
300.0565	0 - 10	60,0	+/- 0,02	280

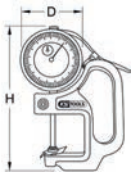
Precision-dial indicator gauge with zero setting 0 - 0.08 mm

- DIN 2270
- high performance and anti-magnetic due to its high-quality brass base body
- Tolerance marks
- Gem storage for enhanced sensitivity
- Carbide needle
- 230° turning range of the stylus
- In total there are 3 dovetails for mounting brackets
- Stylus length 16.5 mm
- In durable plastic storage case

	Measuring range mm	D mm	L1 mm	L2 mm	Display accuracy mm	g
300.0564	0 - 0,08	30,0	75,0	16,5	+/- 0,01	220

Precision-dial indicator gauge 0 - 30 mm

- in accordance with ISO 9001
- with standard dial
- for measuring thickness of wires, sheet metal, films, threads etc.
- suitable for direct and comparative measurements
- with rotating scale
- Button made out of stainless steel
- Bracket made from cast iron
- In durable plastic case



	Measuring range mm	D mm	H mm	Display accuracy mm	Pointer revolution mm	g
300.0624	0 - 30 mm	60,0	140	+/- 0,01	1,0	300

Magnetic measurement stand with 2 joints

- For clamping of the dial indicator
- Revolving base
- Transverse arm with joint and fine adjustment
- With on and off switchable magnetic base
- High adhesive force on burnished steel and cast areas
- Also adhesive on convolutions
- Foot with prismatic base and stop area mounted edges
- With dial guage reception Ø 8 mm

	Radius mm	Magnet foot L x W x H mm	Total depth mm	Adhesive force n	Stand Ø mm	kg
300.0625	180,0	60x50x55	280,0	600,0	16,0	1,80

Magnetic measurement stand with 3 joints

- For clamping of the dial indicator
- Revolving base
- Transverse arm with joint and fine adjustment
- With on and off switchable magnetic base
- High adhesive force on burnished steel and cast areas
- Also adhesive on convolutions
- Foot with prismatic base and stop area mounted edges
- With dial guage reception Ø 8 mm

	Radius mm	Magnet foot L x W x H mm	Total depth mm	Adhesive force n	Stand Ø mm	kg
300.0623	280,0	50x55x60	380,0	600,0	12,0	1,70

MEASURING TOOL SET

Measuring tool set

- Practical assortment for daily workshop usage
- Includes accurate machined protective foam insert
- In durable plastic storage case

			kg
150.2240	7 pcs	Measuring tool set	1,66

consists of:

		g
300.0555	Micrometer, 0-25mm	300
300.0510	Pocket vernier calliper 0-150mm, 235mm	145
300.0102	Flexible steel rule, 200mm	11
300.0293	Square DIN 875/0, 100mm	115
300.0300	Scribe, 190mm	10
300.0402	Precision spring pointed dividers, 138mm	120
300.0632	Precision straight edge, 100mm	80

Brake disc measuring tool set

- For measuring the radial and axial runout of wheel hubs and brake discs
- Exact positioning of the dial gauge on the test object with magnetic dial gauge holder
- Quick and easy attachment of stand with prismatic support and activated magnets
- Precise setting of the measuring scale with adjustable tolerance marks
- With rotating, knurled outer ring
- Suitable for measuring the brake disc thickness, and for detection of irregularities and distortion
- With measured value fixing lever and measuring force control with ratchet function
- In durable plastic storage case

			kg	
150.2230	3 pcs	Brake disc measuring tool set	4,00	

consists of:

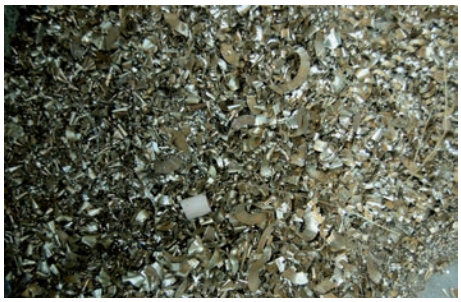
		kg	
300.0625	Magnetic measurement stand with 2 joints	1,80	
300.0560	Precision dial indicator gauge 0 - 10 mm	0,26	
300.0556	Micrometer, 0-50mm	0,32	

THREAD- & FEELER GAUGES

Welding seam gauge

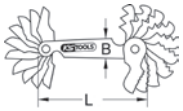
- For measuring the welded seams at right angled welded corners
- Blades fan shaped on a ring
- Leaves individually marked with size
- Blades made out of hardened spring steel

	Tooth pitch		g	
300.0619	12	3,0-3,5-4,0-4,5-5,0-5,5-6,0-6,5-7,0-8,0-10,0-12,0	50	



Thread gauge

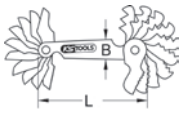
- For controlling and increasing the interior thread and outside thread
- Imperial sizes
- Cylindrical tapered
- Leaves fan shaped arrangement
- Leaves individually marked with size
- Out of hardened spring steel



	Tooth pitch	for thread size	B mm	L mm	g	
301.0090	22	4-4,5-5-6-7-8-9-10-11-12-13-14-16-18 20-22-24-32-40-48-56-64 speed	12,2	66,5	40	

Thread gauge

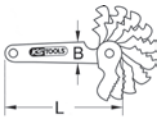
- For controlling and increasing the interior thread and outside thread
- Metric sizes
- Cylindrical tapered
- Leaves fan shaped arrangement
- Leaves individually marked with size
- Out of hardened spring steel



	Tooth pitch	for thread size	B mm	L mm	g	
301.0095	20	0,40-0,45-0,50-0,60-0,70-0,75-0,80-1,00-1,25-1,50-1,75-2,00-2,50-3,00-3,50-4,00-4,50-5,00-5,50-6,00mm	12,2	66,5	40	

Trapezoid steel thread gauge

- For threads according to DIN 103
- Equipped with 12 blades for pitch 2 - 20mm
- Flank angle 30°
- Blades made out of hardened spring steel



	Thread	Measuring range mm	L mm	B mm	g	
300.0622	30°	2-3-4-5-6-7-8-9-10-12-16-20	120,0	40,0	150	

TORX® gauge

- For testing of Torx and E profiles
- Measuring caps fan shaped on a ring
- Individually marked with size
- Measuring caps made from plastic

			g	
300.0610	20 pcs	E1xT5 - E2xT6 - E4xT7 - E5xT8 - E6xT9 - E7xT10 - E8xT15 - E10xT20 - E11xT25 - E12xT27-E14xT30 - E16xT35 - E18xT40 - E20xT45 - E22xT47 - E24xT50 - E26xT55 - E28xT60 - E30xT70	50	

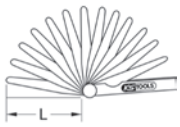
Feeler gauge

- For the testing of intervals, contact distances etc.
- Feeler gauge conical tapered
- Fixing nut
- Leaves individually marked with size
- Blades made out of hardened spring steel

	Tooth pitch	Measuring range mm	L mm	g	
300.0600	20	0,05-0,10-0,15-0,20-0,25-0,30-0,35-0,40-0,45-0,50-0,55-0,60-0,65-0,70-0,75-0,80-0,85-0,90-0,95-1,00	100,0	88	

Antimagnetic brass feeler gauge

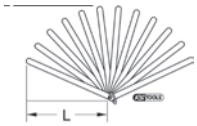
- For the testing of intervals, contact distances etc.
- Feeler gauge conical tapered
- Fixing nut
- Leaves individually marked with size
- Blades made of brass



	Tooth pitch	Measuring range mm	L mm	g	
300.0611	8	0,05-0,1-0,15-0,2-0,25-0,3-0,4-0,5	100,0	55	
300.0612	13	0,05-0,1-0,15-0,2-0,25-0,3-0,4-0,5-0,6-0,7-0,8-0,9-1,0	100,0	70	
300.0613	20	0,05-0,1-0,15-0,2-0,25-0,3-0,35-0,4-0,45-0,5-0,55-0,6-0,65-0,7-0,75-0,8-0,85-0,9-0,95-1,0	100,0	85	

Piston tolerance gauge

- For the testing of intervals, contact distances etc.
- Feeler gauge cylindrical
- Blades fan shaped on a ring
- Leaves individually marked with size
- Blades made out of hardened spring steel

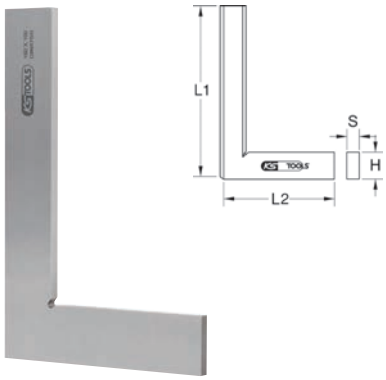


	Tooth pitch	Measuring range mm	L mm	
300.0614	8	0,05-0,1-0,15-0,2-0,25-0,3-0,4-0,5	150,0	30
300.0617	8	0,05-0,1-0,15-0,2-0,25-0,3-0,4-0,5	200,0	50
300.0615	13	0,05-0,1-0,15-0,2-0,25-0,3-0,4-0,5-0,6-0,7-0,8-0,9-1,0	150,0	80
300.0618	13	0,05-0,1-0,15-0,2-0,25-0,3-0,4-0,5-0,6-0,7-0,8-0,9-1,0	200,0	150
300.0616	20	0,05-0,1-0,15-0,2-0,25-0,3-0,35-0,4-0,45-0,5-0,55-0,6-0,65-0,7-0,75-0,8-0,85-0,9-0,95-1,0	150,0	150

SQUARES

Square

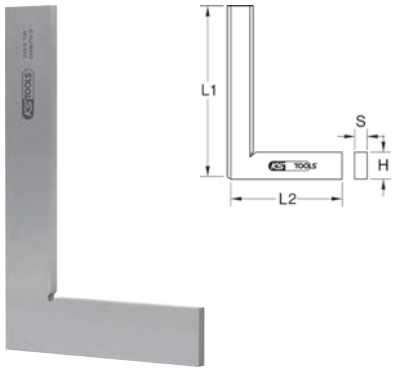
- In accordance with DIN 875/0
- Ideal for the most accurate working and inspection in precision mechanical engineering
- Perpendicularity-, Parallelism- and smoothness tolerances finely ground and aligned
- Stock and cross section finely ground and alinged
- Stainless steel



	L1 mm	L2 mm	H mm	S mm	
300.0291	50,0	40,0	12,0	5,0	40
300.0292	75,0	50,0	15,0	5,0	70
300.0293	100,0	70,0	20,0	5,0	115
300.0294	150,0	100,0	25,0	5,0	210
300.0295	200,0	130,0	30,0	6,0	350
300.0296	250,0	165,0	35,0	7,0	850
300.0297	300,0	200,0	40,0	8,0	1300

Square

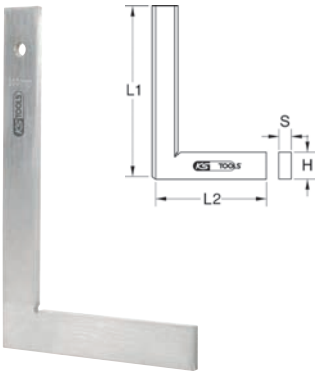
- In accordance with DIN 875/2
- Ideal for accurate working in precision mechanical engineering and shop floor use
- Perpendicularity-, Parallelism- and smoothness tolerances ground
- Stock area and cross area ground
- Special tool steel



	L1 mm	L2 mm	H mm	S mm	
300.0254	75,0	50,0	15,0	5,0	80
300.0255	100,0	70,0	20,0	5,0	100
300.0256	150,0	100,0	25,0	5,0	240
300.0257	200,0	130,0	30,0	6,0	450
300.0258	250,0	165,0	35,0	7,0	550
300.0259	300,0	175,0	40,0	8,0	800
300.0260	400,0	200,0	45,0	10,0	1100
300.0261	500,0	250,0	50,0	10,0	1600

Square

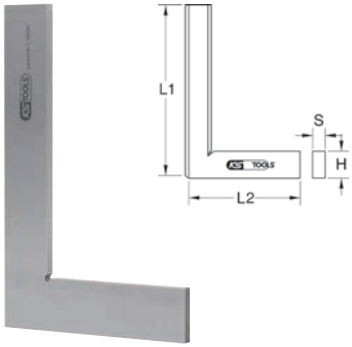
- Ideal for general working
- Machined on all sides
- Steel



	L1 mm	L2 mm	H mm	S mm	
300.0231	100,0	70,0	20,0	5,0	115
300.0232	150,0	100,0	20,0	5,0	175
300.0233	200,0	130,0	20,0	5,0	250
300.0234	250,0	160,0	25,0	5,0	375
300.0235	300,0	180,0	25,0	5,0	525
300.0236	400,0	230,0	30,0	5,0	615
300.0237	500,0	280,0	30,0	5,0	870
300.0238	600,0	330,0	30,0	5,0	1400
300.0239	750,0	375,0	30,0	5,0	1550
300.0241	1000,0	500,0	30,0	5,0	2910

Square

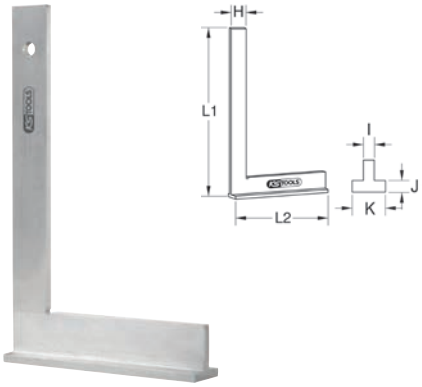
- In accordance with DIN 875/1
- For the most accurate working and inspection in precision mechanical engineering
- Perpendicularity-, Parallelism- and smoothness tolerances finely ground and aligned
- Stock and cross section finely ground and alinged
- Special tool steel



	L1 mm	L2 mm	H mm	S mm	
300.0199	75,0	50,0	15,0	5,0	80
300.0200	100,0	70,0	20,0	5,0	100
300.0201	150,0	100,0	25,0	5,0	250
300.0202	200,0	130,0	30,0	6,0	500
300.0203	250,0	165,0	35,0	7,0	700
300.0204	300,0	200,0	40,0	8,0	1150
300.0205	400,0	265,0	40,0	8,0	1180
300.0206	500,0	330,0	40,0	8,0	2800

Square with stock

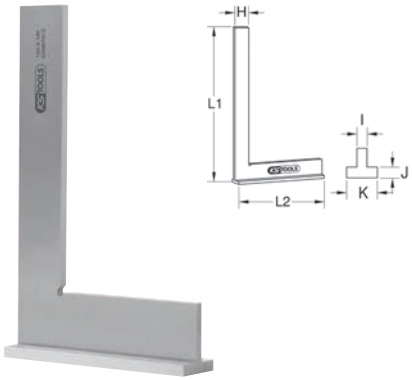
- Ideal for general working
- With stock
- Machined on all sides
- Steel



	L1 mm	L2 mm	H mm	I mm	J mm	K mm	
300.0270	100,0	70,0	20,0	5,0	5,0	20,0	170
300.0271	150,0	100,0	20,0	5,0	5,0	20,0	260
300.0272	200,0	130,0	20,0	5,0	5,0	20,0	340
300.0273	250,0	160,0	25,0	5,0	5,0	25,0	530
300.0274	300,0	180,0	25,0	5,0	5,0	25,0	620
300.0275	400,0	230,0	30,0	6,0	6,0	30,0	1160
300.0276	500,0	280,0	30,0	6,0	6,0	30,0	1440
300.0277	600,0	330,0	30,0	6,0	6,0	30,0	1720
300.0278	750,0	375,0	30,0	6,0	6,0	30,0	2060
300.0279	1000,0	500,0	30,0	6,0	6,0	30,0	2760

Square with stock

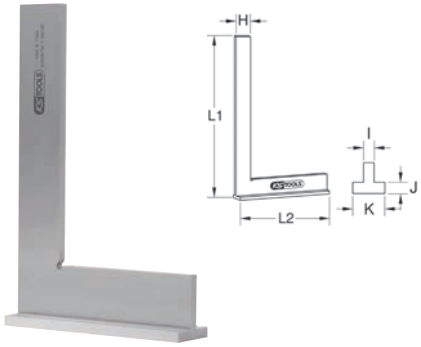
- In accordance with DIN 875/2
- Ideal for accurate working in precision mechanical engineering and shop floor use
- With stock
- Perpendicularity-, Parallelism- and smoothness tolerances ground
- Stock area and cross area ground
- Special tool steel



	L1 mm	L2 mm	H mm	I mm	J mm	K mm	g	
300.0281	75,0	50,0	15,0	5,0	5,0	15,0	100	
300.0282	100,0	70,0	20,0	5,0	5,0	20,0	155	
300.0283	150,0	100,0	25,0	5,0	5,0	25,0	330	
300.0284	200,0	130,0	30,0	6,0	6,0	30,0	650	
300.0285	250,0	165,0	35,0	7,0	7,0	35,0	750	
300.0286	300,0	175,0	35,0	7,0	7,0	35,0	1200	
300.0287	400,0	200,0	40,0	8,0	8,0	40,0	1480	
300.0288	500,0	250,0	40,0	8,0	8,0	40,0	2300	

Square with stock

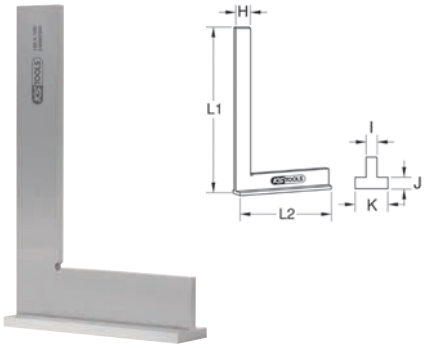
- In accordance with DIN 875/1
- For the most accurate working and inspection in precision mechanical engineering
- Perpendicularity-, Parallelism- and smoothness tolerances finely ground and aligned
- Stock and cross section finely ground and alinged
- With stock
- Special tool steel



	L1 mm	L2 mm	H mm	I mm	J mm	K mm	g	
300.0209	75,0	50,0	15,0	5,0	5,0	15,0	100	
300.0210	100,0	70,0	20,0	5,0	5,0	20,0	150	
300.0211	150,0	100,0	25,0	5,0	5,0	25,0	400	
300.0212	200,0	130,0	30,0	6,0	6,0	30,0	700	
300.0213	250,0	165,0	35,0	7,0	7,0	35,0	1100	
300.0214	300,0	200,0	40,0	8,0	8,0	40,0	1600	
300.0215	400,0	265,0	40,0	8,0	8,0	40,0	2700	
300.0216	500,0	330,0	40,0	8,0	8,0	40,0	4360	

Square with stock

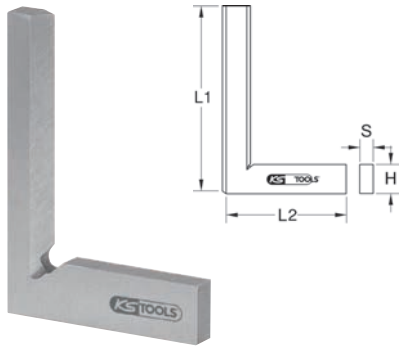
- In accordance with DIN 875/0
- Ideal for the most accurate working and inspection in precision mechanical engineering
- Perpendicularity-, Parallelism- and smoothness tolerances finely ground and aligned
- Stock and cross section finely ground and alinged
- With stock
- Stainless steel



	L1 mm	L2 mm	H mm	I mm	J mm	K mm	g	
300.0311	50,0	40,0	14,0	5,5	4,5	18,0	60	
300.0312	75,0	50,0	18,5	5,5	4,5	17,5	100	
300.0313	100,0	70,0	20,0	5,5	5,0	23,4	185	
300.0314	150,0	100,0	24,0	5,5	6,0	23,4	330	
300.0315	200,0	130,0	28,5	6,0	6,0	27,5	560	
300.0316	250,0	165,0	36,0	8,0	7,0	32,0	1050	
300.0317	300,0	200,0	39,0	8,0	8,0	38,0	1490	

Precision hard square

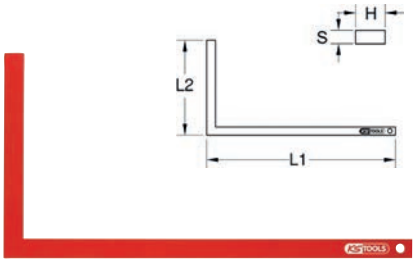
- In accordance with DIN 875/00
- For inspection and test working in light cold processing
- Perpendicularity-, Parallelism- and smoothness tolerances finely ground and aligned
- Stock and cross section finely ground and alinged
- Hardened
- Stainless steel



	L1 mm	L2 mm	H mm	S mm	g	
300.0318	25,0	20,0	5,0	3,5	40	
300.0319	40,0	28,0	5,0	3,5	80	

Carpenters square

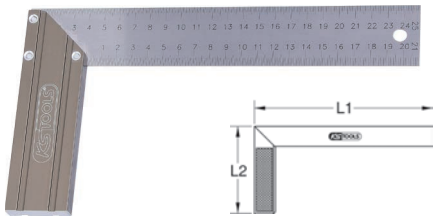
- With hanging hole
- Without head stock
- Red powder coating
- Quenched and tempered
- Special tool steel



	L1 mm	L2 mm	H mm	S mm	g	
300.0250	500,0	260,0	35,0	5,0	840	
300.0251	600,0	280,0	35,0	5,0	1070	
300.0252	800,0	320,0	35,0	5,0	1370	
300.0253	1000,0	380,0	35,0	5,0	1700	

Cabinetmakers square with aluminium stock

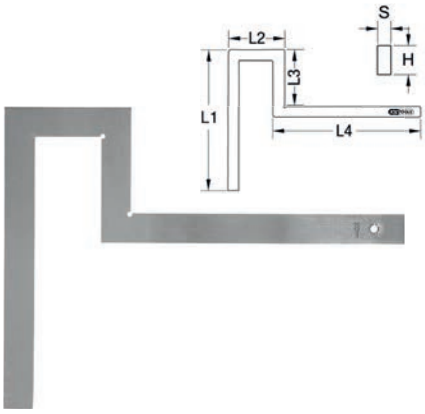
- Stock made from aluminium
- Upper edge divisions 1 mm
- Lower edge divisions 1 mm
- Large decimal scale
- Units engraved
- Scale division in black
- Blade made from cast iron



	L1 mm	L2 mm	g	
300.0220	250,0	140,0	70	

flange bracket

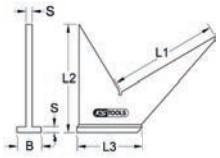
- ideal for precise work in pipeline construction
- for aligning the flanges
- Stainless steel



	L1 mm	L2 mm	L3 mm	L4 mm	H mm	S mm	kg	
300.1121	300,0	65,0	105,0	300,0	30,0	6,0	1,12	
300.1122	400,0	65,0	115,0	400,0	30,0	6,0	1,44	
300.1123	500,0	70,0	125,0	500,0	30,0	6,0	1,68	
300.1124	500,0	70,0	125,0	600,0	30,0	6,0	2,00	
300.1125	500,0	95,0	125,0	800,0	30,0	6,0	2,40	
300.1126	500,0	95,0	125,0	1000,0	30,0	6,0	2,90	

Mitre angle

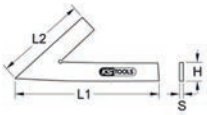
- In accordance with DIN 875/2
- Ideal for the most accurate working and inspection in precision mechanical engineering
- Stock and cross section finely ground and alinged
- With stock
- Special tool steel



	L1 mm	L2 mm	L3 mm	S mm	B mm	
300.0217	107,0	92,0	47,0	5,0	25,0	400
300.0218	128,0	110,0	59,0	5,0	25,0	450
300.0219	155,0	130,0	70,0	5,0	25,0	500

Sharpening angle 45°

- In accordance with DIN 875/2
- For the most accurate working and inspection in precision mechanical engineering
- Stock and cross section finely ground and alinged
- With stock
- Special tool steel



	L1 mm	L2 mm	S mm	H mm	
300.0224	200,0	130,0	5,0	25	280

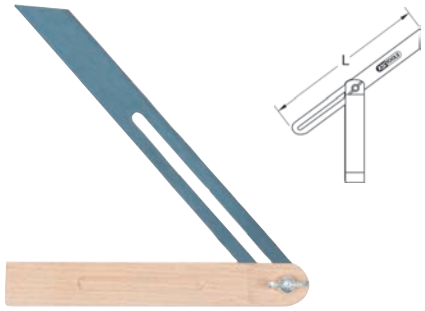
Adjustable square with steel blade

- Blade made from steel
- Ideal for simple metal working
- Wing nut for locking
- Channel for the adjustment of the angle
- Chrome plated
- Spring steel

	L mm	
300.0327	200,0	180
300.0328	250,0	200
300.0329	300,0	220
300.0330	400,0	240
300.0331	500,0	260

Adjustable square

- Ideal for simple metal working
- Head stock out of wood and/or cast iron
- Wing nut for locking
- Channel for the adjustment of the angle
- Chrome plated
- Spring steel

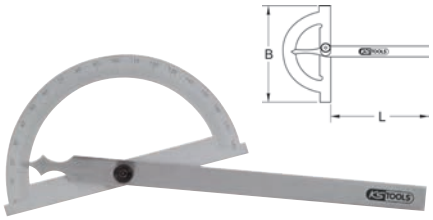


	L mm	Blade		
300.0230	250,0	cast iron	200	
300.0240	250,0	wood	100	

PROTRACTOR

Protractor with open arch

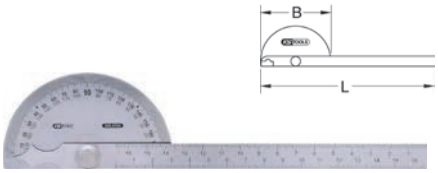
- Ideal for measuring of angles 0 - 180°
- Half round open arch
- Locking screw
- Degree graduation 1°
- With large decimal scale
- Units engraved
- Scale division in black
- Anti glare matt finish
- Stainless steel



	L mm	B mm	
300.0640	120,0	100,0	150
300.0641	150,0	140,0	200
300.0642	200,0	170,0	300
300.0643	300,0	220,0	500
300.0644	500,0	320,0	1400
300.0645	600,0	320,0	1450
300.0646	800,0	320,0	1500
300.0647	600,0	420,0	2600
300.0648	800,0	420,0	2900
300.0649	1000,0	420,0	3400

Protractor

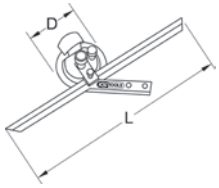
- Ideal for measuring of angles 0 - 180°
- Half round arch
- Locking screw
- Divisions printed in two directions
- Two direction scale in mm division in upper and lower edge
- Units engraved
- Scale division in black
- Anti glare matt finish
- Stainless steel

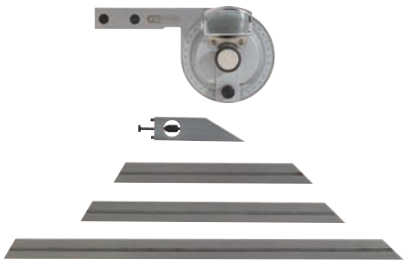


	L mm	B mm	
300.0700	220,0	90,0	70
300.0701	400,0	200,0	150

Universal protractor

- Ideal for the measuring of angles on workpieces, devices and machines
- Also can be used as a ruler, cross and mitre square
- Locking screw
- Reading with magnifiying glass for viewing field over the entire vernier scale
- Fine adjustment through geared wheel and toothed rim
- Indicating dial reading 4 x 90°
- Vernier scale reading 1/12° - 5 angular minutes
- Units engraved
- Anti glare matt finish matt chrome
- Includes 3 measuring bars 150 mm, 200 mm und 300 mm
- Stainless steel
- In durable plastic case





	D mm	L mm	
300.0207	70,0	300,0	600

FOLDING RULES

Wooden folding rule, yellow

- Out of ten yellow dividers
- Outside visible joints with spring fittings
- Through riveted joints
- Two sided mm divisions on the upper and lower edge
- Large decimal scale
- Scale division in black
- Overall length 2 meters
- Measuring accuracy according to EC accuracy class III
- Beech wood

	Length m	Width mm	Number of links	
300.0060	2,00	16,0	10	100

Wooden folding rule, white

- Out of ten white dividers
- Outside visible joints with brass spring fittings
- Through riveted joints
- Two sided mm divisions on the upper and lower edge
- Large decimal scale-red marking
- Scale division in black
- Overall length 2 meters
- Measuring accuracy according to EC accuracy class III
- Beech wood

	Length m	Width mm	Number of links	
300.0062	2,00	16,0	10	110

Wooden folding rule, white/yelllow

- Out of ten white/yelllow dividers
- Outside visible joints with brass spring fittings
- Through riveted joints
- Two sided mm divisions on the upper and lower edge
- Large decimal scale-red marking
- Scale division in black
- Overall length 2 meters
- Measuring accuracy according to EC accuracy class III
- Beech wood

	Length m	Width mm	Number of links	g
300.0063	2,00	16,0	10	100

Plastic folding rule, yellow

- Out of ten yellow dividers
- Durable special joint connection
- Two sided mm divisions on the upper and lower edge
- Large decimal scale
- Scale division in black
- Overall length 2 meters
- Measuring accuracy according to EC accuracy class III
- Glass fibre reinforced and bends resistant ABS-plastic

	Length m	Width mm	Number of links	g
300.0061	2,00	16,0	10	100

Plastic folding rule, white

- Insulated in accordance with IEC 60900:2004
- Made from glass-fibre reinforced plastic
- Without metal parts

	Length m	1000V	g
300.0066	1,00		600

REEL TAPE MEASURES

Tape measure with locking device and belt clip

- Yellow varnished steel strip
- mm divisions on the upper and lower edge
- Scale division in black
- Decimal in red marking
- Automatic tape returns and tape locking
- Plastic tape guide
- Wrist strap
- Measuring accuracy according to EC accuracy class II
- Weathering spring band steel
- Dual component plastic housing

	Length m	Tape width mm	g
300.0113	3,00	16,0	100
300.0114	5,00	19,0	220
300.0115	5,00	25,0	190
300.0116	8,00	25,0	210

Tape measure with locking device and belt clip

- Yellow laquered, abrasion proof polyamide coated steel tape
- mm divisions on the upper and lower edge
- Scale division in black
- Decimal in red marking
- Automatic tape returns and tape locking
- Metallic tape guide
- Wrist strap
- Measuring accuracy according to EC accuracy class II
- Flexible, kink proof weathering spring band steel
- ABS two component housing

	Length m	Tape width mm	g
300.0131	3,00	16,0	100
300.0132	5,00	19,0	150
300.0133	5,00	25,0	150
300.0134	8,00	25,0	370
300.0135	10,00	30,0	690

Tape measure with locking device, belt clip and magnetic stop

- Yellow laquered, abrasion proof polyamide coated steel tape
- mm divisions on the upper and lower edge
- Scale division in black
- Decimal in red marking
- Automatic tape returns and tape locking
- Magnetic stop
- Measuring accuracy according to EC accuracy class II
- Flexible, kink proof weathering spring band steel
- ABS two component housing

	Length m	Tape width mm	g
300.0143	5,00	25,0	150

Electrical tape measure with brake and belt clip, digital

- yellow lacquered, abrasion-resistant and acrylic-coated steel strip
- mm divisions on the upper and lower edge
- Scale division in black
- Decimal in red marking
- Automatic tape returns and tape locking
- Wrist strap
- Flexible, kink proof weathering spring band steel
- ABS two component housing

	Length m	Tape width mm	g
300.1111	5,00	19,0	235

Enclosed tape measure with plastic tape

- Yellow glass fibre reinforced plastic tape
- Stretch, abrasion resistant and washable
- Measuring begins at 100 mm after measurement stop
- cm division on the lower edge
- Large decimal scale-red marking
- Scale division in black
- Good handling through the crank arm and locking position
- Measuring accuracy according to EC accuracy class III
- Impact resistant, ABS plastic housing

	Length m	Tape width mm	g
300.0040	10,00	10,0	350
300.0041	20,00	10,0	400
300.0042	30,00	10,0	550
300.0043	50,00	10,0	690

Frame tape measure with yellow steel tape

- Yellow laquered, abrasion proof polyamide coated steel tape
- Measuring begins at 100 mm after measurement stop
- mm division on the lower edge
- Large decimal scale-red marking
- Scale division in black
- Two ball bearings guarantee easy winding in and out
- Good handling through the crank arm and locking position
- Measuring accuracy according to EC accuracy class III
- Impact resistant, ABS plastic housing

	Length m	Tape width mm	g
300.0055	30,00	13,0	800
300.0056	50,00	13,0	1000

Frame tape measure with yellow steel tape

- Yellow laquered, abrasion proof polyamide coated steel tape
- mm division on the lower edge
- Large decimal scale
- Scale division in black
- Two ball bearings guarantee easy winding in and out
- Good handling through the crank arm and locking position
- Measuring accuracy according to EC accuracy class II
- Glass fibre reinforced and bend resistant plastic
- Impact resistant steel framework with plastic handle

	Length m	Tape width mm	g
300.0049	20,00	13,0	800
300.0050	30,00	13,0	900
300.0051	50,00	13,0	1000

Reel tape measure with plastic tape

- White glass fibre reinforced plastic tape
- Stretch, abrasion resistant and washable
- Large decimal scale
- Scale division in black
- Two ball bearings guarantee easy winding in and out
- Good handling through the crank arm and locking position
- Measuring accuracy according to EC accuracy class III
- Impact resistant steel framework with plastic handle

	Length m	Tape width mm	g	
300.0052	20,00	13,0	800	
300.0053	30,00	13,0	900	
300.0054	50,00	13,0	1000	

SPIRIT LEVELS

Digital inclinometer

- ideal for measuring incline angles
- strong magnetic pedestal
- LCD backlight
- for absolute and relative measurements
- Includes belt pouch
- Plastic housing with aluminium frame
- Measurement unit: °degrees

Display accuracy:	+/-0,1°
Resolution:	+/-0.1°
Working range:	4 x 90°
Operating temperature:	+0°C to +55°C
Power requirement:	2 x 1.5V AAA battery

	Width mm	Height mm	Depth mm	g	
300.0208	60,0	60,0	25,0	110	

Aluminium profile spirit level with fine adjustment

- Smooth aluminium rectangular profile
- Light profile weight
- Accurate to 0,5 mm per meter
- 4 robust Acrylglas-vials (0° + 45° + 90°)
- Fine adjustment
- 1,8 mm wall thickness
- With hanging hole
- Aluminium

	L mm	B mm	H mm	g	
204.5610	600,0	22,0	50,0	250	
204.5810	800,0	22,0	50,0	350	
204.5910	1000,0	22,0	50,0	450	

Aluminium profile spirit level with pipe levelling

- Aluminium rectangular profile
- Profile graduated for pipe leveling
- Light profile weight
- 2 through handles for easier handling
- Accurate to 0,5 mm per meter
- 3 robust Acrylglas vials (0° + 90°)
- Push softening end caps
- Measuring area milled
- 1,8 mm wall thickness
- With hanging hole
- Aluminium

	L mm	B mm	H mm	g	
204.7050	500,0	27,0	64,0	450	
204.7060	600,0	27,0	64,0	550	
204.7080	800,0	27,0	64,0	730	
204.7100	1000,0	27,0	64,0	910	
204.7150	1500,0	27,0	64,0	1370	

Aluminium profile spirit level

- Smooth aluminium rectangular profile
- Light profile weight
- Accurate to 0,5 mm per meter
- 3 robust Acrylglas vials (0° + 45° + 90°)
- 1,8 mm wall thickness
- With hanging hole
- Aluminium

	L mm	B mm	H mm	g	
204.5400	400,0	22,0	50,0	320	
204.5500	500,0	22,0	50,0	390	
204.5600	600,0	22,0	50,0	300	
204.5800	800,0	22,0	50,0	350	
204.5900	1000,0	22,0	50,0	730	

Heavy aluminium die cast spirit level

- Skeleton profile
- Accurate to 0,5 mm per meter
- 3 robust Acrylglas vials (0° + 45° + 90°)
- Very high torsional stiffness
- All sides of the level can be used as the reading edge
- Measuring area and front sides milled
- With hanging hole
- Aluminium

	L mm	B mm	H mm	g	
204.4410	400,0	23,0	44,0	200	
204.4610	600,0	23,0	44,0	400	
204.4810	800,0	23,0	44,0	600	

Aluminium profile spirit level, magnetic

- DIN 877
- Smooth aluminium rectangular profile
- Light profile weight
- Accurate to 0,5 mm per meter
- 2 robust Acrylglas vials (0° + 90°)
- With hanging hole
- Magnetic
- Aluminium

	L mm	B mm	H mm	g	
204.5470	400,0	21,0	50,0	280	
204.5471	600,0	21,0	50,0	280	

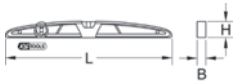
Spirit level, magnetic

- DIN 877
- Skeleton profile
- 2 through handles for easier handling
- Accurate to 0,5 mm per meter
- 3 robust Acrylglas-block vials (0° + 90° + angle vial)
- With hanging hole
- Magnetic
- made of stabilised cast iron
- Shock-absorbing end caps

	L mm	B mm	H mm	g	
204.5480	600,0	25,0	54,0	280	
204.5481	800,0	25,0	54,0	300	

Heavy aluminium die cast spirit level in torpedo form

- Skeleton profile
- Accurate to 0,5 mm per meter
- 2 robust Acrylic vials (0° + 90°)
- Very high torsional stiffness
- Torpedo form
- Measuring area milled
- With hanging hole
- Made from aluminium die cast



	L mm	B mm	H mm	g	
204.4400	400,0	23,0	47,0	260	
204.4500	500,0	23,0	47,0	300	
204.4600	600,0	23,0	47,0	400	
204.4800	800,0	23,0	47,0	650	
204.4900	1000,0	23,0	47,0	800	

Heavy aluminium die cast spirit level in torpedo form, magnetic

- Skeleton profile
- Accurate to 0,5 mm per meter
- 2 robust Acrylglas vials (0° + 90°)
- Very high torsional stiffness
- Torpedo form
- Magnetic
- Measuring area milled
- With hanging hole
- Made from aluminium die cast

	L mm	B mm	H mm	g
204.6400	400,0	23,0	47,0	470
204.6500	500,0	23,0	47,0	600
204.6600	600,0	23,0	47,0	600
204.6800	800,0	23,0	47,0	1000

Spirit level with a frame

- DIN 877
- made of stabilised cast iron
- Lateral surfaces are fitted with anti-slip insulating plates
- Accurate to 0.04 mm per metre
- 1 robust Acrylglas-block vial (0°)
- Vial is protected behind transparent Plexiglas
- in a durable metal case

	L mm	B mm	H mm	kg
204.5487	200,0	200,0	42,5	2,00

Digital aluminium profile spirit level

- for calculating angles, inclinations, gradients and mean values
- 2 robust Acrylglas vials (0° + 90°)
- Smooth aluminium rectangular profile
- Light profile weight
- Accurate to 0,5 mm per meter
- with HOLD function
- 1,8 mm wall thickness
- With hanging hole
- Aluminium

	Length mm	Width mm	Height mm	g
204.5490	416,0	21,0	50,0	430

Digital angle finder with spirit level

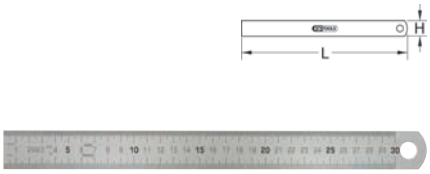
- ideal for measuring angles on workpieces
- smooth aluminium rectangular profile with adjustable angle arm
- 2 robust Acrylglas vials (0° + 90°)
- Light profile weight
- Accurate to 0,5 mm per meter
- with fine adjustment and zero pressure switch
- With hanging hole
- Aluminium

	Length mm	Width mm	Height mm	Measuring range	g
204.5591	305,0	23,0	52,0	0° - 225°	390

GAUGES & RULES

Semi flexible steel ruler

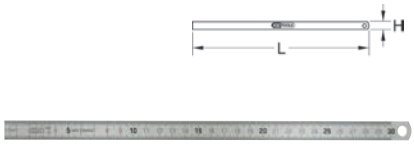
- Upper edge 1 mm
- Lower edge 1 mm
- Large decimal scale
- Units engraved
- Scale division in black
- Anti glare matt finish reflection free
- Rounded edges
- Measuring accuracy according to EC accuracy class II
- Rust-proof
- Hard tempered spring steel



	L mm	H mm	g
300.0110	300,0	30,0	70
300.0111	500,0	30,0	105
300.0112	1000,0	30,0	245
300.0117	1500,0	30,0	370
300.0118	2000,0	30,0	490

Flexible steel ruler

- Upper edge1/2 mm
- Lower edge 1 mm
- Large decimal scale
- Units engraved
- Scale division in black
- Anti glare matt finish reflection free
- Rounded edges
- Measuring accuracy according to EC accuracy class II
- Rust-proof
- Hard tempered spring steel



	L mm	H mm	g
300.0101	150,0	13,0	9
300.0102	200,0	13,0	11
300.0103	250,0	13,0	14
300.0104	300,0	13,0	16
300.0105	500,0	13,0	37
300.0106	1000,0	13,0	72

circumferential tape measure

- for precise measurement of diameter and circumference
- Large decimal scale
- Units engraved
- Scale division in black
- Anti glare matt finish reflection free
- Rounded edges
- Measuring accuracy according to EC accuracy class I
- Stainless steel

	Circumference from mm	Circumference to mm	Ø from mm	Ø to mm	g
300.0171	60	950	20	300	120
300.0172	940	2200	300	700	140
300.0173	2190	3460	700	1100	160

Precision ruler

- mm division on the upper edge
- Chamfer
- Without protective layer
- With hanging hole
- Finely polished and zinc plated
- Steel

	L mm	H mm	S mm	g
300.0121	300,0	50,0	5,0	186
300.0122	500,0	50,0	5,0	292
300.0123	600,0	50,0	5,0	350
300.0124	800,0	50,0	5,0	460
300.0125	1000,0	50,0	5,0	600

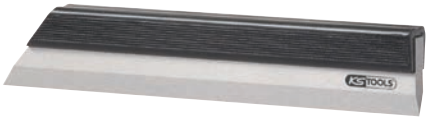
Precision straightedge

- For the inspection and the exact working on cylinder heads
- In accordance with DIN 874/1
- Double T profile rail with rear 5 hand slots
- On edge and flat sides examination process
- With hanging hole
- Steel

	L mm	H mm	S mm	kg
152.1090	600,0	30,0	16,0	2,10

Precision straightedge

- In accordance with DIN 874/00
- Hand warmth protection
- Test area precise and finely engineered
- Flatness tolerance for highest accuracy
- For controlled and test working in the light gap procedure
- Hardened
- Stainless steel



	L mm	H mm	g	
300.0630	50,0	25,0	40	
300.0631	75,0	25,0	60	
300.0632	100,0	25,0	80	
300.0633	125,0	25,0	100	
300.0634	150,0	25,0	120	
300.0635	200,0	25,0	160	
300.0636	300,0	25,0	240	
300.0637	400,0	25,0	320	
300.0638	500,0	25,0	400	
300.0639	600,0	25,0	480	

MARKING GAUGE & SCRIBER

Scriber

- For marking of work pieces
- Straight and 70° bent tip
- Knurled handle
- Hardened point
- Burnished
- Special tool steel

	L mm	D mm	g	
300.0300	190,0	4,0	10	

Hard metal scriber

- For marking of work pieces
- Straight form
- With hard metal tip
- Pocket clip
- Hardened point
- Chrome plated
- Special tool steel

	L mm	D mm	g	
300.0301	145,0	5,0	60	

Hard metal scriber in ball-point pen form

- For marking of work pieces
- Straight form
- Hardened and interchangeable hard metal tips
- Pocket clip
- Protection through foldaway needle tip
- Adjustable and lead bow mine
- Metal housing

	L mm	D mm	Replacement tip	g	
300.0302	150,0	8,0	300.0303	40	

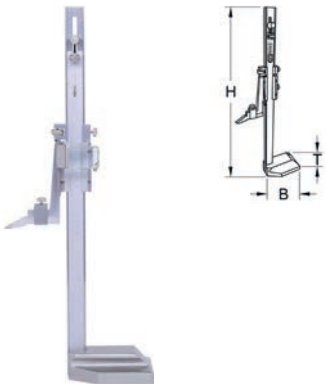
Mechanics marking gauge

- Revolving base
- Fine adjustment by means of a fixed adjusting screw
- For simple marking of work pieces
- With hardened scribing iron
- Bar made out of stainless steel
- Prism shaped socket made out of cast iron

	B mm	H mm	T mm	g	
300.0627	100,0	300,0	80,0	700	
300.0628	400,0	400,0	80,0	750	
300.0629	500,0	500,0	80,0	780	

Precision vernier height gauge

- DIN 862
- Measuring range 0-300 mm
- Fine adjustment by means of a fixed adjusting screw
- For simple marking of work pieces
- With hardened scribing iron
- Bar made out of stainless steel
- Base made out of cast iron
- Accurate to 0.02mm
- Adjustable magnifying glass
- Measuring table supplied
- in an elegant wooden box



	B mm	H mm	T mm	kg	
300.0652	130,0	555,0	90,0	2,90	

PRECISION BUTTONS

Precision inside calipers

- Extra square edged legs
- Hardened points
- Ground and finely polished
- Special tool steel

	Radius mm	Length mm	g	
300.1584	100,0	109,0	40	
300.1585	125,0	109,0	40	
300.1586	150,0	110,0	50	
300.1587	175,0	186,0	100	
300.1588	200,0	211,0	100	
300.1589	250,0	265,0	200	
300.1591	300,0	313,0	250	
300.1592	400,0	413,0	300	
300.1593	500,0	513,0	400	
300.1594	600,0	613,0	500	
300.1595	800,0	817,0	1000	
300.1596	1000,0	1017,0	1200	

Precision outside calipers

- Extra square edged legs
- Hardened points
- Ground and finely polished
- Special tool steel

	Radius mm	Length mm	g	
300.1571	100,0	109,0	40	
300.1572	125,0	109,0	40	
300.1573	150,0	110,0	50	
300.1574	175,0	186,0	100	
300.1575	200,0	211,0	100	
300.1576	250,0	265,0	200	
300.1577	300,0	313,0	250	
300.1578	400,0	413,0	350	
300.1579	500,0	513,0	450	
300.1581	600,0	613,0	550	
300.1582	800,0	817,0	1150	
300.1583	1000,0	1017,0	1400	

DIVIDERS

Pointed dividers with regulating arc

- Square edged irgs and riveted hinge
- Locking screw
- Hardened points
- Ground and finely polished
- Special tool steel

	Radius mm	Length mm	g	
300.0416	300,0	150,0	135	
300.0417	400,0	200,0	190	
300.0418	500,0	250,0	275	
300.0419	600,0	300,0	320	

Pointed dividers without regulating arc

- Square edged irgs and riveted hinge
- Hardened points
- Ground and finely polished
- Special tool steel

	Radius mm	Length mm	g	
300.0412	300,0	150,0	125	
300.0413	400,0	200,0	180	
300.0414	500,0	250,0	245	
300.0415	600,0	300,0	295	

Precision spring gap dividers inside callipers

- Extra square edged legs
- Through stay spindle and fast clamping nut
- Hardened points
- Ground and finely polished
- Special tool steel

	Radius mm	Length mm	g	
300.0421	144,0	200,0	120	
300.0422	200,0	250,0	160	
300.0423	245,0	300,0	205	
300.0424	300,0	355,0	240	

Precision spring pointed dividers

- Extra square edged legs
- Through stay spindle and fast clamping nut
- Hardened points
- Ground and finely polished
- Special tool steel

	Radius mm	Length mm	g	
300.0402	138,0	200,0	120	
300.0404	190,0	255,0	160	
300.0405	235,0	300,0	200	
300.0406	280,0	360,0	235	

Precision spring pointed dividers with pencil holder

- Extra square edged legs
- Through stay spindle and fast clamping nut
- Hardened points
- Ground and finely polished
- Special tool steel

	Radius mm	Length mm	g	
300.0411	210,0	260,0	150	

Precision spring pointed dividers with interchangeable tips

- Extra square edged legs
- Through stay spindle and fast clamping nut
- Interchangeable tips
- Hardened points
- Ground and finely polished
- Special tool steel

	Radius mm	Length mm	Replacement tip	g	
300.0429	130,0	190,0	300.0434	120	
300.0431	190,0	260,0	300.0434	155	
300.0432	240,0	300,0	300.0434	205	
300.0433	285,0	355,0	300.0434	245	

Precision spring gryphon dividers outside callipers

- Extra square edged legs
- Through stay spindle and fast clamping nut
- Hardened points
- Ground and finely polished
- Special tool steel

	Radius mm	Length mm	g	
300.0425	180,0	200,0	135	
300.0426	190,0	260,0	185	
300.0427	235,0	310,0	225	
300.0428	280,0	345,0	260	

Universal marking gauge with stop roller

- Ideal for simple marking of work pieces
- Vernier calliper 1/128”
- Interchangeable tip
- Locking screw
- Measuring bar with mm divisions
- Hardened
- Stainless steel

	Measuring range mm	L mm	Display accuracy mm	Replacement tip	g	
300.0626	200,0	265,0	0,2	300.0651	200	

Precision beam compass

- In accordance with DIN 866/B
- Interchangeable tips
- Fine adjustment
- Measuring bar with mm divisions
- Position slider with reference marker
- Hardened
- Stainless steel

	Measuring range mm	L mm	Display accuracy mm	Replacement tip	kg	
300.0407	0 - 500	660,0	0,1	300.0410	1,18	
300.0408	0 - 1000	1170,0	0,1	300.0410	2,24	

MEASURING EQUIPMENT

Rod thermometer

- Controls temperature of air streams through air channels
- Controls the water temperature
- With long and narrow measuring instruments
- Scale with °C and °F measurements

	Length mm	Working range °C	Working range °F	g
150.1963	210,0	0 - 200	0 - 400	27

Digital rod thermometer

- Controls temperature of air streams through air channels
- Controls the water temperature
- With long, narrow measuring instruments
- Good readability
- Includes 9V block battery
- Includes hold function
- Includes LCD display

	Length mm	Working range °C	g
150.1968	125,5	-50 - +150	145

Infrared thermometer

- Laser pistol for non contact temperature measurement
- Ideally suited for the automotive sector, industrial, and construction usage Chemical and foodsuffs industry
- Laser measuring beam with a red measuring point
- Illuminating Display
- LCD Digital display
- Automatic swiching off
- Includes 9V block battery
- Sturdy plastic housing

Application range: In turning motors, difficult to access places, fluids, under current line directions, in heating appliances, gas and, air-conditioning, coolent systems, brake discs aggressive chemicals and groceries

Technical data:

Switchable:	°C / °F
Working range:	-20°C - 500°C
Emission factor:	adjust to 0.95
Power output max:	1mW
Power requirement:	9V block battery

		g
150.3040	Infrared thermometer	135

Layer thicknesses measuring instrument

- For fast measurement of coatings
- For coatings on aluminium, iron and non-ferrous metals
- Ideally suited to the disclosure of accident damage
- Digital display with lighting
- Automatic switch off
- One-handed operation
- Sturdy plastic housing
- With practical storage case

Technical data:

Readout:	3.1/2" LCD readout
Operating settings:	0°C - 50°C (32°F - 50°F) < 75% air humidity
Response time	1 second
Loading gage "Strength":	0-40 mils (0-1000 µm)
Display accuracy:	+/- 4 dgts up 0 to 7,8 mils
	+/- 10 dgts up 0 to 199 µm
	+/- (3% + 4 dgts) up 7,9 mils to 40 mils
	+/- (3% + 10 dgts) up 200 to 1000 µm

	H mm	B mm	T mm	g
150.3010	148,0	105,0	42,0	280

Photoelectric rev counter

- Portable laser measuring instrument, digital
- For touchless measuring of the rotating speed / number of revolutions
- LED display 18mm
- Automatic back up: last test result / maximum and minimum value
- Laser aim point to focus exactly on the measuring point
- Solid state RPM measurement by reflectors supplied

Technical data:

Working range:	2,5 - 99.999 U/min
Measuring distance:	50-500 mm
Resolution:	0.1 RPM up to 999.9 , 1 RPM from 1000
Display accuracy:	0,05% +/- 1
Power requirement:	3x 1,5V AAA (not in the delivery)
Dimensions:	185x73x37mm
Working temperature:	0° / +50°C

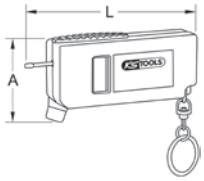
		g
455.0130	Photoelectric rev counter	415

accessories:

		g
455.0131	Reflective tape stripes200 x 12 mm, pack of 3	1

Digital tyre pressure and thread gauge 0,35 - 6,80 bar

- Precise and repeatable LCD measurement
- For depth measurements
- For tyre pressure measurements
- Measurement with acoustic signal
- Pressure measurement range can be switched between bar, kpa and PSI
- Low energy consumption due to automatic shutdown
- Includes batteries, key chain and belt clip



	Measuring range bar	Profil depth blade in mm	g
100.4060	0,35-6,80	0,0-15,0	90

Digital tyre pressure gauge

- Precise and repeatable LCD measurement
- For tyre pressure measurements
- Pressure measurement range can be switched between bar, kpa and PSI
- Low energy consumption due to automatic shutdown
- Self-calibrating
- With valve lighting
- Includes batteries

	Measuring range bar	Length mm	B mm	g
100.4055	0,2-10	135,0	55,0	60

Digital moisture meter

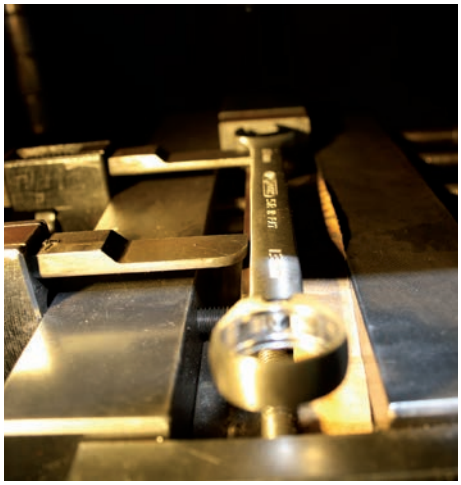
- for fast and precise testing of the moisture content
- Exact measurement of the boiling point possible
- particularly suitable for industrial and construction applications
- Easy to read LCD display
- Automatic swiching off
- 4 LR44 1.5V batteries included
- Sturdy plastic housing

Application range: Wood, cardboard, building materials, etc.

Technical data:

Storage temperature:	-10° to +60° C (-4° to 140° F)
Operating temperature:	0°C up to +40°C
Measuring range humidity:	< 85 % RH

	Length mm	Width mm	Height mm	g
150.3225	85,0	46,0	16,0	41



laser range finder

- fast and easy measurement
- Large LCD display
- Keyboard resistant to water and dust
- Thread for stand mounting
- Laser class 2

Application range: Distance measurement, area determination, volume calculation, indirect measurement

Technical data:

Working temperature:	-10° to +40°C
Storage temperature:	-20° to +60° C (-4° to 140° F)
Working range:	0,05 - 30 m
Display accuracy:	+/- 2 mm
Protection class:	IP 54

	Width mm	Height mm	Depth mm	g
300.0058	55,0	125,0	34,0	340

BATTERY TESTER

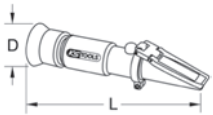
Acidimeter for battery fluid

- For the inspection of the acidity of the battery fluid
- Easy to use: Suction, read, release
- Glass cylinder length is 11 cm
- With suction bellows
- Acid density can be read directly with a hydrometer

	L mm	g
550.1680	280,0	107

Refractometer - optical tester for battery fluid and antifreeze

- For the quick and accurate testing of acidity in the battery fluid and the antifreeze content
- Can also be used for coolant and windscreen wiper fluid
- Adjustable eye piece with rubber viewing rest
- With automatic temperature compensation (ATC)
- Also suitable in ambient temperatures of less than 10°C
- Reading correction function by means of bimetallic measurement
- High quality design made from aluminium
- Good readability due to defined dividing lines
- Recalibration possible
- Includes calibration screwdriver and pipette
- In practical plastic case



Technical data:

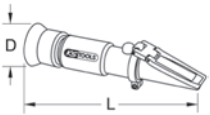
Battery acid:	acid density (measuring range 1.1 to 1.4 kg/l)
Coolant water Propylene:	temperature resistance (measuring range 0° to -50°C)
Coolant water Ethylene:	temperature resistance (measuring range 0° to -50°C)
Windscreen water:	antifreeze (measuring range 0° to -40° C)

	D mm	L mm	Glass face mm	g
550.1290	40,0	149,0	40 x 13	630

Refractometer - optical tester for battery fluid, antifreeze and AdBlue® additives

- For the quick and accurate testing of the acidity of the battery fluid, the antifreeze content and the AdBlue® additives
- Can also be used for coolant and windscreen wiper fluid
- Adjustable eye piece with rubber viewing rest
- With automatic temperature compensation (ATC)
- Also suitable in ambient temperatures of less than 10°C
- Reading correction function by means of bimetallic measurement
- High quality design made from aluminium
- Good readability due to defined dividing lines
- Recalibration possible
- Includes calibration screwdriver and pipette
- In practical plastic case

*AdBlue® is a registered trademark of the Verband der Automobilindustrie e.V (VDA).



Technical data:

Battery acid:	acid density (measuring range 1.1 to 1.3 kg/l)
Coolant water Propylene:	temperature resistance (measuring range -25° to -50°C)
Coolant water Ethylene:	temperature resistance (measuring range -25° to -50°C)
Windscreen water:	antifreeze (measuring range -10° to -40° C)
For AdBlue® additives (VRA):	urea content (measuring range 30% - 35%)

	D mm	L mm	Glass face mm	g
550.1285	40,0	160,0	40 x 13	480

FROST PROTECTION TESTER

Antifreeze tester

- For quick and precise testing of antifreeze
- For ethylene glycol/water mixture in the cooling circuit for passenger cars, commercial vehicles etc.
- Also allows for a visual inspection for rust and other impurities
- Also suitable in ambient temperatures of less than 10°C
- Easy to read with the pendulum display (up to -50°C/-60°F)
- High-quality design
- Plastic housing
- Good readability

		g	
550.1241	Antifreeze tester	120	

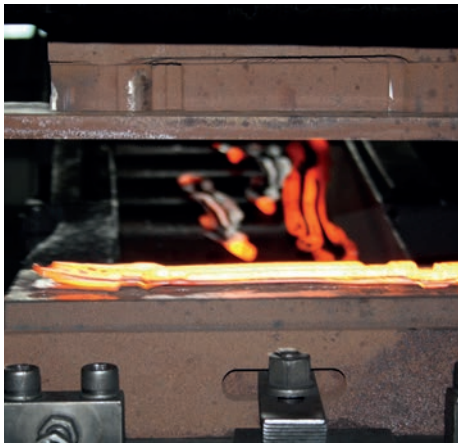
MEASURING BEAKER, JUG AND FUNNEL

Measuring cup set

- Configuration of practical measuring cup sizes
- For a wide range of uses
- Transparent
- Break-resistant
- Red primed scale division
- Resistant to oil, petrol and acid
- With handle and spout
- PE (polyethylene)

Scales: L/ml, cups, Oz, quart

			g	
150.9205	3 pcs	250 - 500 - 1.000 ml	227	



Measuring cup with flexible outlet spout

- For a wide range of uses
- Flexible, funnel-shaped spout allows for a clean drainage
- Suitable for oil, chemicals, petrol, acid, anti-freeze fluid and non-acidic fluids
- Break-resistant
- Steady
- With a graduation scale
- With practical carry handle
- Special plastic

		Spout	g	
150.9234	1	150.9236	150	
150.9235	2	150.9236	250	
150.9001	3	150.9003	310	
150.9002	5	150.9003	440	

Single-use colour mixer with cover

- Single-use colour mixer for mixing all types of paint
- Solvent resistant plastic
- Cover for optimal storage
- With mix scale
- Also suitable for water-based paints

	Material	Colour code	Content	Content	g	
500.8056	polypropylene	transparent	400	25	420	
500.8057	polypropylene	transparent	650	25	620	
500.8058	polypropylene	transparent	1300	25	1100	
500.8059	polypropylene	transparent	2240	25	1700	

GENERAL TOOLS

Contour gauge

- For quickly removing and transferring bodywork contours
- Precise and accurate work results
- Easy handling
- Side metal holder for optional attachment of second gauge
- Expansion of the working area to 500 mm
- with 250 mm/10" long scale/divided into mm/inches
- 45 mm insertion depth
- With 4 magnets on the reverse
- Distortion-resistant design
- Plastic

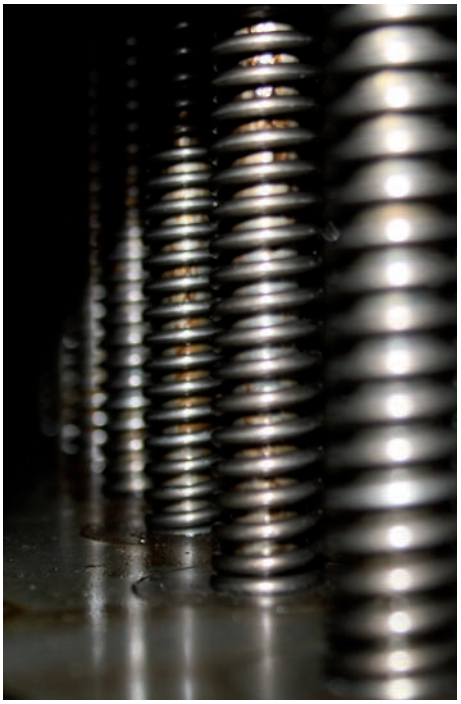
Application range: Body work/Model construction/Joiner/Tiler

	H mm	T mm	L mm	g	
140.2147	100,0	20,0	280,0	421	

Gap wedge

- For adjusting when installing bodywork parts
- Original size can be decreased with gauge beforehand by an undamaged side
- Also suitable for rapid comparison measurement
- With measuring scale
- With handle
- Plastic

	Length mm	Measuring range mm	g	
150.1569	155,0	0,5 - 120,0	25	




KS TOOLS
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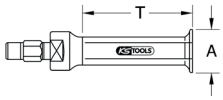
KS TOOLS
Innovation is
our mission!

INTERNAL EXTRACTORS

Precision internal extractor

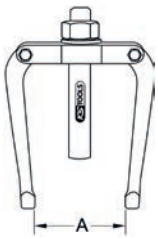
- Centering shaft
- For the removal of secure bearings and bushes
- Special tool steel



	A mm		mm	mm	T mm	max N·m	g
660.0101	5-7	M10	10	13	30,0	3	50
660.0102	6-8	M10	10	13	30,0	3	50
660.0103	7-9	M10	10	13	30,0	7	50
660.0104	8-10	M10	10	13	30,0	7	50
660.0105	9-12	M10	10	13	30,0	12	50
660.0106	10-13	M10	10	13	30,0	15	50
660.0107	12-15	M10	10	13	30,0	15	50
660.0108	13-17	M10	10	13	50,0	24	70
660.0109	14-19	M10	10	13	60,0	28	90
660.0111	15-20	M10	10	13	60,0	28	90
660.0112	16-21	M10	10	13	60,0	32	90
660.0113	18-23	M10	10	17	60,0	40	110
660.0114	20-25	M10	10	17	60,0	40	110
660.0115	22-27	M10	10	17	60,0	40	110
660.0116	25-30	M10	10	17	60,0	40	120
660.0117	25-40	M10	13	19	45,0	45	260
660.0118	28-35	M10	10	17	60,0	45	280
660.0119	30-37	M10	17	22	70,0	45	280
660.0121	35-42	M10	17	22	70,0	45	280
660.0122	38-45	M10	17	22	70,0	45	290
660.0123	40-47	M10	17	22	70,0	45	300
660.0124	43-50	M10	17	22	70,0	45	310
660.0125	40-75	G 3/8"	17	27	100,0	45	760
660.0126	45-55	G 3/8"	19	27	100,0	45	650
660.0127	50-60	G 3/8"	19	27	100,0	45	680
660.0128	70-115	G 3/8"	19	27	130,0	45	1400

Double ended support for internal extractor

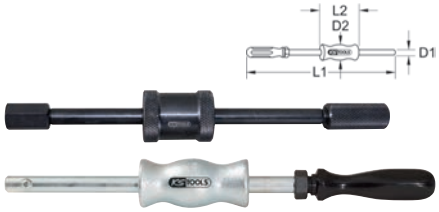
- Extremely robust spindle with inductively hardened thread
- Special tool steel



	A mm	max N·m	mm	Internal extractors	mm	kg
660.0601	35-75	30	12	M10	M16x1,5 x 136	0,70
660.0602	60-130	60	19	M10xG3/8"	M24x1,5 x 160	1,60
660.0603	60-130	60	19	G3/8"	M24x1,5 x 160	1,50
660.0605	55-205	100	22	G3/8"	G1/2"x14g x 210	3,80

Slide hammer

- Flexible removal tool
- Internal thread for holding various pullers, bolts and hooks
- Ideal for removing ball bearings, wheel hubs etc.
- Ideal for limited access areas
- Special tool steel



	L1 mm	L2 mm	D1 mm	D2 mm		kg
660.0501	170	40,0	10,0	30,0	M10	0,40
660.0502	170	80,0	10,0	50,0	M10	0,90
660.0503	250	100,0	16,0	45,0	M10	1,30
660.0504	250	100,0	16,0	45,0	M10+G3/8"	1,40
660.0505	250	100,0	16,0	60,0	G3/8"	2,60

INTERNAL EXTRACTORS SETS

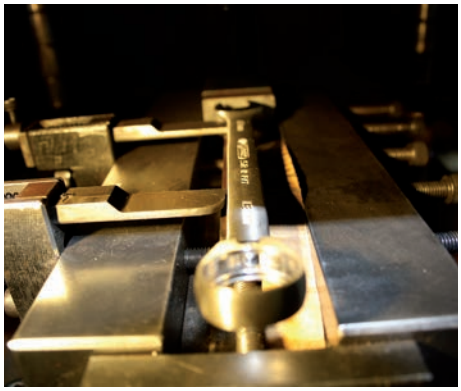
Precision internal extractor set ø 10,0 - 37,0 mm

- Centering shaft
- For the removal of secure bearings and bushes
- Extremely robust spindle with inductively hardened thread
- Special tool steel
- In durable plastic storage case
- For pulling/hitting the pilot bearing

			kg
660.0014	7 pcs	Precision internal extractor set ø 10,0 - 37,0 mm	2,42

consists of:

		g
660.0106	Precision internal extractor, 10-13mm	50
660.0109	Precision internal extractor, 14-19mm	90
660.0114	Precision internal extractor, 20-25mm	110
660.0116	Precision internal extractor, 25-30mm	120
660.0119	Precision internal extractor, 30-37mm	280
660.0601	Double ended support for internal extractor, 35-75mm	700
660.0501	Slide hammer, 170mm, M10, variante1	400



Precision internal extractor set ø 10,0 - 45,0 mm

- Centering shaft
- For the removal of secure bearings and bushes
- Extremely robust spindle with inductively hardened thread
- Special tool steel
- In durable plastic storage case

			kg
660.0011	7 pcs	Precision internal extractor set ø 10,0 - 45,0 mm	2,36

consists of:

		g
660.0106	Precision internal extractor, 10-13mm	50
660.0109	Precision internal extractor, 14-19mm	90
660.0114	Precision internal extractor, 20-25mm	110
660.0116	Precision internal extractor, 25-30mm	120
660.0119	Precision internal extractor, 30-37mm	280
660.0122	Precision internal extractor, 38-45mm	290
660.0601	Double ended support for internal extractor, 35-75mm	700

Precision internal extractor set ø 10,0 - 75,0 mm

- Centering shaft
- For the removal of secure bearings and bushes
- Extremely robust spindle with inductively hardened thread
- Special tool steel
- In durable plastic storage case

			kg
660.0012	9 pcs	Precision internal extractor set ø 10,0 - 75,0 mm	4,92

consists of:

		g
660.0106	Precision internal extractor, 10-13mm	50
660.0109	Precision internal extractor, 14-19mm	90
660.0114	Precision internal extractor, 20-25mm	110
660.0116	Precision internal extractor, 25-30mm	120
660.0119	Precision internal extractor, 30-37mm	280
660.0122	Precision internal extractor, 38-45mm	290
660.0125	Precision internal extractor, 40-75mm	760
660.0601	Double ended support for internal extractor, 35-75mm	700
660.0602	Double ended support for internal extractor, 60-130mm, M10xG3/8"	1600

Precision internal extractor set ø 15,0 - 75,0 mm

- Centering shaft
- For the removal of secure bearings and bushes
- Extremely robust spindle with inductively hardened thread
- Special tool steel
- In durable plastic storage case

			kg
660.0015	5 pcs	Precision internal extractor set ø 15,0 - 75,0 mm	3,60

consists of:

		g
660.0111	Precision internal extractor, 15-20mm	90
660.0114	Precision internal extractor, 20-25mm	110
660.0117	Precision internal extractor, 25-40mm	260
660.0125	Precision internal extractor, 40-75mm	760
660.0602	Double ended support for internal extractor, 60-130mm, M10xG3/8"	1600

Precision internal extractor set ø 10,0 - 115,0 mm

- Centering shaft
- For the removal of secure bearings and bushes
- Extremely robust spindle with inductively hardened thread
- Special tool steel
- In durable plastic storage case

			kg
660.0013	10 pcs	Precision internal extractor set ø 10,0 - 115,0 mm	9,72

consists of:

		g
660.0106	Precision internal extractor, 10-13mm	50
660.0109	Precision internal extractor, 14-19mm	90
660.0114	Precision internal extractor, 20-25mm	110
660.0116	Precision internal extractor, 25-30mm	120
660.0119	Precision internal extractor, 30-37mm	280
660.0122	Precision internal extractor, 38-45mm	290
660.0125	Precision internal extractor, 40-75mm	760
660.0601	Double ended support for internal extractor, 35-75mm	700
660.0128	Precision internal extractor, 70-115mm	1400
660.0605	Double ended support for internal extractor, 55-205mm	3800

INTERNAL EXTRACTORS & PULLER SETS

Precision internal extractor and puller set 10 - 45 mm

- Through reversing the arms internal and external applications are possible
- Wide range of arms and hydraulic spindles available
- Centering shaft
- For the removal of secure bearings and bushes
- Extremely robust spindle with inductively hardened thread
- Special tool steel
- In durable plastic storage case

			kg
660.0022	10 pcs	Precision internal extractor and puller set 10 - 45 mm	5,58

consists of:

		g
660.0106	Precision internal extractor, 10-13mm	50
660.0109	Precision internal extractor, 14-19mm	90
660.0114	Precision internal extractor, 20-25mm	110
660.0116	Precision internal extractor, 25-30mm	120
660.0119	Precision internal extractor, 30-37mm	280
660.0122	Precision internal extractor, 38-45mm	290
660.0601	Double ended support for internal extractor, 35-75mm	700
620.0101	Universal 2 arm puller, 20-90mm, legs 100mm	1000
620.3101	Pole clamp 2-jaw puller, 10-60mm	160
670.0221	Draw off lining, Ø 5-32mm	1400

Precision internal extractor and puller set 10 - 75 mm

- Through reversing the arms internal and external applications are possible
- Wide range of arms and hydraulic spindles available
- Centering shaft
- For the removal of secure bearings and bushes
- Extremely robust spindle with inductively hardened thread
- Special tool steel
- In durable plastic storage case

			kg
660.0023	13 pcs	Precision internal extractor and puller set 10 - 75 mm	11,60

consists of:

		g
660.0106	Precision internal extractor, 10-13mm	50
660.0109	Precision internal extractor, 14-19mm	90
660.0114	Precision internal extractor, 20-25mm	110
660.0116	Precision internal extractor, 25-30mm	120
660.0119	Precision internal extractor, 30-37mm	280
660.0122	Precision internal extractor, 38-45mm	290
660.0125	Precision internal extractor, 40-75mm	760
660.0601	Double ended support for internal extractor, 35-75mm	700
660.0603	Double ended support for internal extractor, 60-130mm, G3/8"	1500
620.0101	Universal 2 arm puller, 20-90mm, legs 100mm	1000
620.0103	Universal 2 arm puller, 50-160mm, legs 150mm	3000
620.3101	Pole clamp 2-jaw puller, 10-60mm	160
670.0221	Draw off lining, Ø 5-32mm	1400

Precision internal extractor and puller set 10 - 115 mm

- Through reversing the arms internal and external applications are possible
- Wide range of arms and hydraulic spindles available
- Centering shaft
- For the removal of secure bearings and bushes
- Extremely robust spindle with inductively hardened thread
- Special tool steel
- In durable plastic storage case

			kg
660.0021	14 pcs	Precision internal extractor and puller set 10 - 115 mm	15,63

consists of:

		g
660.0106	Precision internal extractor, 10-13mm	50
660.0109	Precision internal extractor, 14-19mm	90
660.0114	Precision internal extractor, 20-25mm	110
660.0116	Precision internal extractor, 25-30mm	120
660.0119	Precision internal extractor, 30-37mm	280
660.0122	Precision internal extractor, 38-45mm	290
660.0125	Precision internal extractor, 40-75mm	760
660.0128	Precision internal extractor, 70-115mm	1400
660.0601	Double ended support for internal extractor, 35-75mm	700
660.0605	Double ended support for internal extractor, 55-205mm	3800
620.0101	Universal 2 arm puller, 20-90mm, legs 100mm	1000
620.0103	Universal 2 arm puller, 50-160mm, legs 150mm	3000
620.3101	Pole clamp 2-jaw puller, 10-60mm	160
670.0221	Draw off lining, Ø 5-32mm	1400

BALL BEARING EXTRACTORS

Universal ball bearing extractor set

- Less risk of slipage due to automatically closing pulling arm
- 13 puller variants possible
- Extremely robust spindle with inductively hardened thread
- Excellent power transfer
- Special tool steel
- In durable steel storage case

			kg	
650.0010	37 pcs	Universal ball bearing extractor set	8,00	

consists of:

		g	
650.0011	Ball bearing extractor without legs,26mm	300	
650.0012	Ball bearing extractor without legs,34mm	400	
650.0013	Ball bearing extractor without legs,41mm	500	
650.0014	Ball bearing extractor without legs,49mm	900	
650.0015	Ball bearing extractor without legs,63mm	1200	
655.0011	Adaptor legs for ball bearing extractor, 4 pcs ISO 6000	100	
655.0012	Adaptor legs for ball bearing extractor, 4 pcs ISO 6004	100	
655.0013	Adaptor legs for ball bearing extractor, 4 pcs ISO 6006	200	
655.0014	Adaptor legs for ball bearing extractor, 4 pcs ISO 6007	200	
655.0015	Adaptor legs for ball bearing extractor, 4 pcs ISO 6009	300	
655.0016	Adaptor legs for ball bearing extractor, 4 pcs ISO 6011	400	
655.0017	Adaptor legs for ball bearing extractor, 4 pcs ISO 6208	600	
655.0018	Adaptor legs for ball bearing extractor, 4 pcs ISO 6209	800	

Ball bearing extractor without legs

- Consists of adaptor and spindle
- For ball bearings in waves or housings
- Extremely robust spindle with inductively hardened thread
- Special tool steel

	Ø mm	mm	mm	kg	
650.0011	26	M10 x 150	12	0,30	
650.0012	34	M12 x 199	14	0,40	
650.0013	41	M14x1,5 x 200	17	0,50	
650.0014	49	M18x1,5 x 240	19	0,90	
650.0015	63	G1/2"x14g x 230	22	1,20	

Adaptor legs for ball bearing extractor, 4 pcs

- Can be used with adaptor legs and spindles available separately
- For ball bearings in waves or housings
- Special tool steel

	L mm	Suitable for ISO bearing	g	
655.0011	120	6000, 6001, 6002, 6003, 6200	100	
655.0012	120	6004, 6005, 6201, 6202	100	
655.0013	130	6006, 6203, 6300	200	
655.0014	130	6007, 6008, 6204, 6205, 6301, 6302	200	
655.0015	150	6009, 6010, 6206, 6303, 6304	300	
655.0016	150	6011, 6012, 6207, 6305	400	
655.0017	190	6208, 6306	600	
655.0018	190	6209- 6212, 6307- 6310, 6403- 6406, 6410	800	

Universal ball bearing puller set

- For simple and fast removing of ball bearings without removal of the shaft
- Pulling power influences uniformly on the interior and outside ring
- Special tool steel
- In durable plastic storage case
- Suited for ISO bearings: 6004-6010, 6201-6206, 6300-6304

Ideal for use in SKF, FAG, Timken, NTN bearings etc.
Adaptor diameter: 5.5 - 6 - 8 mm

			kg	
700.1500	21 pcs	Universal ball bearing puller set	0,82	

consists of:

		g	
700.1501	Extension set long, 2 pcs, for 700.1500	110	
700.1502	Centre point, for 700.1500	30	
700.1503	Tie rod set, 2 pcs, for 700.1500	60	
700.1504	Ball head bearing adaptor set, 2 pcs, Ø 5.5 mm	24	
700.1505	Ball head bearing adaptor set, 2 pcs, Ø 6.0 mm	24	
700.1506	Ball head bearing adaptor set, 2 pcs, Ø 8.0 mm	26	
700.1507	Extension set short, 2 pcs, for 700.1500	30	
700.1508	U disc for tie rod, pack of 4, for 700.1500	10	
700.1509	Spindle, for 700.1500	164	
700.1510	Traverse, for 700.1500	202	
700.1511	Nut set for tie rod, 2 pcs, for 700.1500	10	

Universal ball bearing puller set

- For simple and fast removing of ball bearings without removal of the shaft
- Pulling power influences uniformly on the interior and outside ring
- Special tool steel
- In durable plastic storage case
- Suited for ISO bearings: 6207-6211, 6205-6208, 6303-6305

Ideal for use in SKF, FAG, Timken, NTN bearings etc.
Adaptor diameter: 11 - 12.5 - 15 mm

			kg	
700.1600	21 pcs	Universal ball bearing puller set	1,69	

consists of:

		g	
700.1601	Extension set long, 2 pcs, for 700.1600	204	
700.1602	Centre point, for 700.1600	50	
700.1603	Tie rod set, 2 pcs, for 700.1600	178	
700.1604	Ball head bearing adaptor set, 2 pcs, Ø 11.0 mm	88	
700.1605	Ball head bearing adaptor set, 2 pcs, Ø 12.5 mm	96	
700.1606	Ball head bearing adaptor set, 2 pcs, Ø 15.0 mm	110	
700.1607	Extension set short, 2 pcs, for 700.1600	88	
700.1608	U disc for tie rod, pack of 4, for 700.1600	10	
700.1609	Spindle, for 700.1600	130	
700.1610	Traverse, for 700.1600	345	
700.1611	Nut set for tie rod, 2 pcs	10	

BEARING AND BUSH DRIVER

Brass and aluminium punch

- For extracting bearing, bolts and bushes etc.
- Rimed handle for better control
- Brass / Aluminium

	Material	Ø mm	Length mm	kg	
156.0415	brass	20,0	300,0	1,13	
156.0416	aluminium	30,0	300,0	1,89	

Bearing punch set Ø 10.0 - 14.0 mm

- In durable plastic storage case

			g	
156.0440	10 pcs	Bearing punch set Ø 10.0 - 14.0 mm	240	

consists of:

		g	
156.0436	Punch holder	100	
156.0441	Punch attachable head 2 pcs, polyamide, Ø 10 mm	10	
156.0442	Punch attachable head 2 pcs, polyamide, Ø 12 mm	10	
156.0443	Punch attachable head 2 pcs, polyamide, Ø 14 mm	10	
156.0449	Punch attachable head 2 pcs, aluminium, Ø 10 mm	10	
156.0450	Aluminium punch set, 2 pcs., Ø 12 mm	10	
156.0451	Punch attachable head 2 pcs, aluminium, Ø 14 mm	20	
156.0457	Punch attachable head 2 pcs, brass, Ø 10 mm	20	
156.0458	Punch attachable head 2 pcs, brass, Ø 12 mm	20	
156.0459	Punch attachable head 2 pcs, brass, Ø 14 mm	50	

Bearing punch set Ø 25.0 mm

- In durable plastic storage case

			g	
156.0425	7 pcs	Bearing punch set Ø 25.0 mm	640	

consists of:

		g	
156.0426	Punch holder without impact	360	
156.0447	Punch attachable head 2 pcs, polyamide, Ø 25 mm	20	
156.0455	Punch attachable head 2 pcs, aluminium, Ø 25 mm	50	
156.0463	Punch attachable head 2 pcs, brass, Ø 25 mm	150	

Universal bearing and bush driver set

- Universal applicable range
- Can be used manually with a hammer or workshop press
- Applications from 18.0 - 65.0 mm
- Pressure plates are for the two driving spindles
- Special tool steel
- In durable plastic storage case

			kg	
700.1350	51 pcs	Universal bearing and bush driver set	8,00	

consists of:

		g	
700.1348	Reception adaptor, 45mm	500	
700.1349	Impact drive knurled grip, 220mm	42	
700.1351	Pressure plate, 18mm	12	
700.1352	Pressure plate, 19mm	14	
700.1353	Pressure plate, 20mm	16	
700.1354	Pressure plate, 21mm	20	
700.1355	Pressure plate, 22mm	22	
700.1356	Pressure plate, 23mm	27	
700.1357	Pressure plate, 24mm	30	
700.1358	Pressure plate, 25mm	34	
700.1359	Pressure plate, 26mm	38	
700.1360	Pressure plate, 27mm	43	
700.1361	Pressure plate, 28mm	47	
700.1362	Pressure plate, 29mm	50	
700.1363	Pressure plate, 30mm	53	
700.1364	Pressure plate, 31mm	59	
700.1365	Pressure plate, 32mm	65	
700.1366	Pressure plate, 33mm	68	
700.1367	Pressure plate, 34mm	72	
700.1368	Pressure plate, 35mm	77	
700.1369	Pressure plate, 36mm	82	
700.1370	Pressure plate, 37mm	89	
700.1371	Pressure plate, 38mm	94	
700.1372	Pressure plate, 39mm	97	
700.1373	Pressure plate, 40mm	105	
700.1374	Pressure plate, 41mm	111	
700.1375	Pressure plate, 42mm	119	
700.1376	Pressure plate, 43mm	125	
700.1377	Pressure plate, 44mm	132	
700.1378	Pressure plate, 45mm	138	
700.1379	Pressure plate, 46mm	144	
700.1380	Pressure plate, 47mm	153	
700.1381	Pressure plate, 48mm	159	
700.1382	Pressure plate, 49mm	165	
700.1383	Pressure plate, 50mm	172	
700.1384	Pressure plate, 51mm	181	
700.1385	Pressure plate, 52mm	188	
700.1386	Pressure plate, 53mm	196	
700.1387	Pressure plate, 54mm	205	
700.1388	Pressure plate, 55mm	213	
700.1389	Pressure plate, 56mm	221	
700.1390	Pressure plate, 57mm	231	
700.1391	Pressure plate, 58mm	238	
700.1392	Pressure plate, 59mm	247	
700.1393	Pressure plate, 60mm	258	
700.1394	Pressure plate, 61mm	266	
700.1395	Pressure plate, 62mm	276	
700.1396	Pressure plate, 63mm	284	
700.1397	Pressure plate, 64mm	294	
700.1398	Pressure plate, 65mm	305	
700.1399	Support plate, 75mm	500	

Universal bearing and bush driver set

- for gentle driving of bearing and radial sealing rings
- Universal applicable range
- Can be used manually with a hammer or workshop press
- Applications from 70.0 - 150.0 mm
- Pressure plates are for the two driving spindles
- Special tool steel
- In durable plastic storage case

			kg	
150.9710	21 pcs	Universal bearing and bush driver set	19,13	

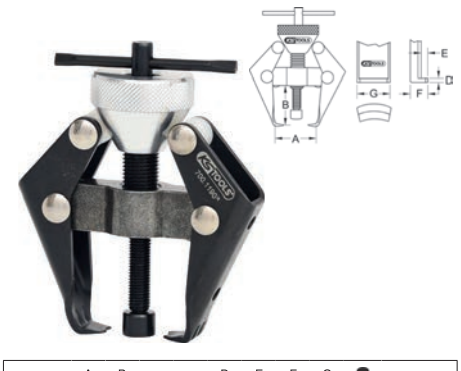
consists of:

		g	
150.9712	Adaptor for Hydraulic thrust bolt, 45,5 mm	44	
150.9713	Retaining adapter, 55 mm	217	
150.9714	Repellent spike with knurling, 273,0 mm	1077	
150.9715	Pressure plate, 70 mm	353	
150.9716	Pressure plate, 75 mm	406	
150.9717	Pressure plate, 80 mm	465	
150.9718	Pressure plate, 85 mm	524	
150.9719	Pressure plate, 90 mm	593	
150.9720	Pressure plate, 95 mm	659	
150.9721	Pressure plate, 100 mm	733	
150.9722	Pressure plate, 105 mm	812	
150.9723	Pressure plate, 110 mm	893	
150.9724	Pressure plate, 115 mm	977	
150.9725	Pressure plate, 120 mm	1065	
150.9726	Pressure plate, 125 mm	1157	
150.9727	Pressure plate, 130 mm	1255	
150.9728	Pressure plate, 135 mm	1349	
150.9729	Pressure plate, 140 mm	1457	
150.9730	Pressure plate, 145 mm	1563	
150.9731	Pressure plate, 150 mm	1676	
151.2603	Hexagon key wrench phosphate finish, short, 3mm	10	

POLE TERMINAL EXTRACTOR

Universal pole terminal and wiper arm puller 2-arm pattern

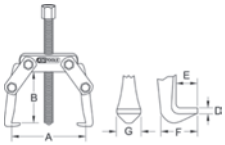
- 2-jaw
- ideally suited for removing the battery terminal and wiper arms
- Locking handle
- With conical tension screw for proportional tension force distribution
- Self-centring jaw puller
- Extremely robust spindle with inductively hardened thread
- Special tool steel



	A mm	B mm	max t	mm	D mm	E mm	F mm	G mm	kg	
700.1190	15	32	1,2	M8 x 50	2,5	9	10,5	11	0,30	

Pole clamp 2-jaw puller

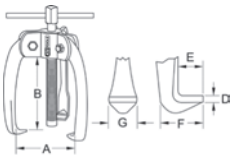
- 2-jaw
- Ideally suited for removing the battery pole terminal
- Automatic pressure on the legs
- Extremely robust spindle with inductively hardened thread
- Screwed
- Sturdy hook
- Special tool steel



	A mm	B mm	max t	mm	mm	D mm	E mm	F mm	G mm	g
620.3101	10-60	40	1	M8x85	10	1	5	12	8	160
620.3102	10-70	44/74	1,2	M8x85	10	1	5	12	8	200
620.3103	10-90	84	2	M10x105	12	1,8	10	20	12	340

3-jaw pole terminal extractor with t-bar

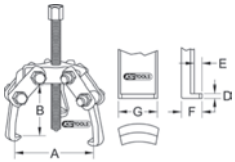
- 3-jaw
- Ideally suited for removing the battery pole terminal
- Locking handle
- Automatic pressure on the legs
- Extremely robust spindle with inductively hardened thread
- Screwed
- Sturdy hook
- Special tool steel



	A mm	B mm	max. t	mm	D mm	E mm	F mm	G mm	g
700.1167	10-60	40	0,75	M10 x 60	2,3	5,5	12,3	10,0	181
700.1168	10-60	60	1,0	M10 x 80	3,0	5,5	12,5	10,0	215
700.1169	10-70	80	1,0	M10 x 100	3,0	8,0	15,2	14,1	323

Pole clamp 3 arm puller

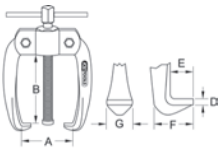
- Uniform load distribution and centered tightening
- Ideally suited for extracting small parts
- Automatic pressure on the legs
- Extremely robust spindle with inductively hardened thread
- Special tool steel



	A mm	B mm	max t	mm	mm	D mm	E mm	F mm	G mm	kg
630.3101	10-60	40	1,2	M8 x 85	10	1	5	12	8	0,20
630.3102	10-70	44/74	1,3	M8 x 85	10	1	5	12	8	0,30
630.3103	10-90	84	2,5	M10 x 105	12	1,8	10	20	12	0,50

Universal pole terminal and wiper arm puller 2-arm pattern

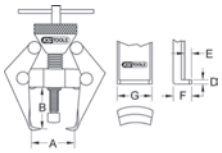
- 2-jaw
- ideally suited for removing the battery terminal and wiper arms
- Locking handle
- Automatic pressure on the legs
- Extremely robust spindle with inductively hardened thread
- Screwed
- Sturdy hook
- Special tool steel



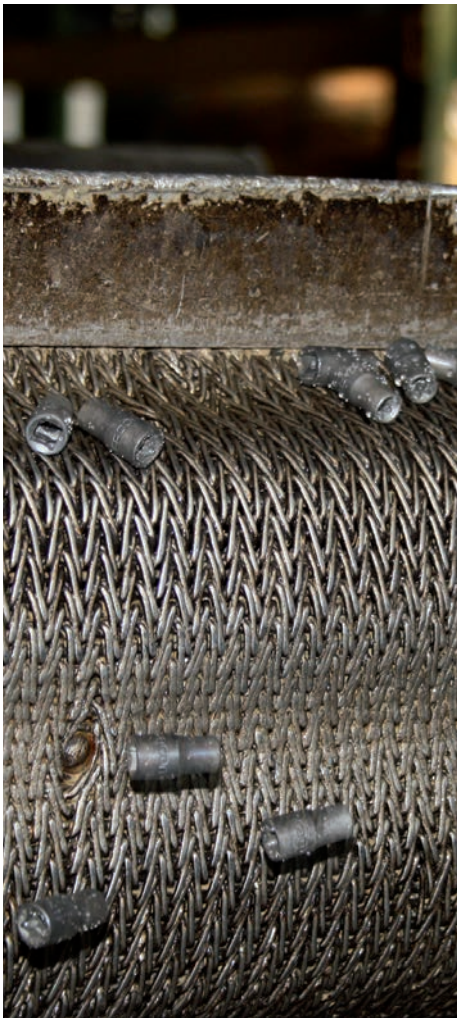
	A mm	B mm	max. t	mm	D mm	E mm	F mm	G mm	g
700.1164	10-60	40	0,5	M10 x 60	2,6	5,5	12,8	10,0	145
700.1165	10-60	60	0,5	M10 x 80	3,7	5,8	12,4	10,1	173
700.1166	10-70	80	0,5	M10 x 100	4,0	9,2	16,8	14,0	245

Universal windscreen wiper arm puller 2-jaw with t-bar

- Heavy execution
- 2-jaw
- Ideally suited to the protective removal of windscreen wiper arms
- Locking handle
- With narrow socket for tight spaces
- With conical self-tensioning clamping screws for proportional tension force distribution
- Self-centring jaw puller
- Extremely robust spindle with inductively hardened thread
- Special tool steel



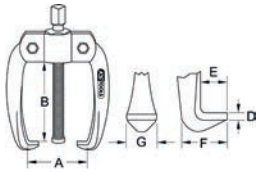
	A mm	B mm	max t	mm	D mm	E mm	F mm	G mm	g
700.1179	45	37	1,2	M10 x 105	5	8	16	8	284



UNIVERSAL 2 ARM PULLER

Universal 2 arm puller

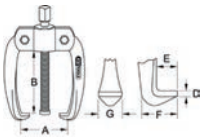
- Robust spindle with hexagon drive
- 640.4103 with locking handle
- Special tool steel



	A mm	B mm	max t	mm	mm	D mm	E mm	F mm	G mm	g
620.4101	10-60	45	2,5	M10x1 x 90	12	2	9	18	10	270
620.4102	10-70	65	3	M10x1 x 110	12	2	9	18	10	300
620.4103	10-100	80	3,5	M12x1,25 x 140	14	2,3	12	25	13	610

Universal 2 arm puller

- for the removal of small parts
- Ideal for confined spaces
- Uniform load distribution and centered tightening
- Pulling hooks are automatically pressed against the part to be pulled off
- Extremely robust spindle with inductively hardened thread
- Special tool steel



	A mm	B mm	max t	mm	mm	D mm	E mm	F mm	G mm	g
620.0073	10-50	40	1	M8x85	10	1,5	6,5	15	8,5	200
620.0074	10-50	40	1	M8x85	10	2,2	7	12	12	200

Universal windscreen wiper arm puller set 2/4-jaws

- 2/4-jaws
- each with 2 extra-slim size and pairs of arms with varying width
- Ideally suited to removal of windscreen wiper arms
- Pulling spindle for damage-free support to the rear wiper blades
- Option of working with wide or narrow arms
- Ball bearing mounted centring point
- With narrow socket for tight spaces
- Extremely robust spindle with inductively hardened thread
- Prevents damage to the bodywork and the windscreen wiper arm
- External drive hexagonal socket 13.0 mm
- Special tool steel

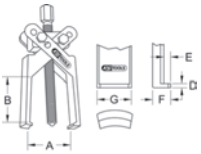
			g
700.1242	6 pcs	Universal windscreen wiper arm puller set 2/4-jaws	690

consists of:

		g
700.1245	Spindle M12 x 90 mm for 700.1242	150
700.1246	Traverse arm, 6 point	100
700.1247	Pair of legs – slim type	100
700.1248	Pair of legs – wide type	100

Universal 2 arm puller

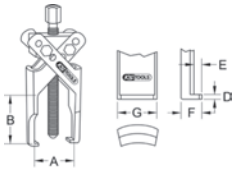
- Legs are adjustable in the working depth
- Automatic pressure on the legs
- Extremely robust spindle with inductively hardened thread
- Special tool steel



	A mm	B mm	max t	mm	mm	D mm	E mm	F mm	G mm	kg
620.5201	6-100	70/85	1,5	M10 x 105	12	2,5	4,5	8,5	23	0,40
620.5202	10-140	85/120	3,5	M14x1,5 x 130	17	3,5	5	10	31	0,90
620.5203	15-140	125/155	4,5	M14x1,5 x 200	17	3,5	5	10	31	1,10

Universal 2 arm puller set with narrow legs

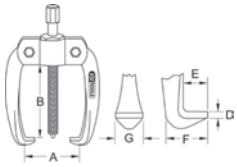
- Legs are adjustable in the working depth
- Ideal for confined spaces
- Automatic pressure on the legs
- Extremely robust spindle with inductively hardened thread
- Special tool steel



	A mm	B mm	max t	mm	mm	D mm	E mm	F mm	G mm	kg
620.5301	6-100	70/85	1	M10 x 105	12	2,5	4,5	8,5	11	0,40
620.5302	15-140	125/155	2	M14x1,5 x 200	17	3,5	5	11	12	1,00

Basic universal 2 arm puller

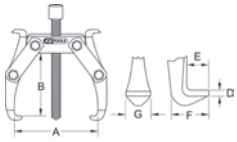
- Extremely robust spindle with inductively hardened thread
- Special tool steel



	A mm	B mm	max t	mm	mm	D mm	E mm	F mm	G mm	kg
620.4301	10-100	80	2,5	M12x1,25 x 162	14	4	12	26	13	0,68
620.4302	10-120	120	3	M14x1,5 x 193	17	5	14	30	16	1,14
620.4303	20-160	160	3,5	M18x1,5 x 243	19	6	18	36	20	2,00
620.4304	20-200	200	4	M22x2 x 293	24	7	22	40	24	3,50

Universal 2 arm puller

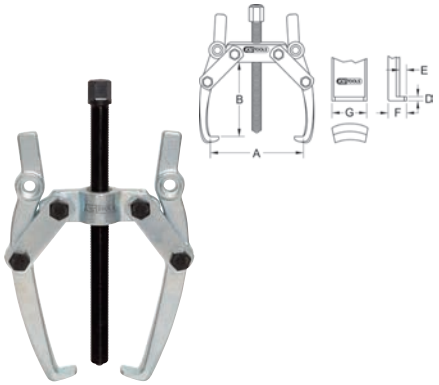
- Legs double ended usable
- Extremely robust spindle with inductively hardened thread
- Special tool steel



	A mm	B mm	max t	mm	mm	D mm	E mm	F mm	G mm	kg
620.3001	20-150	85	3,5	M14x1,5 x 130	17	2	9	21	12	0,90
620.3002	40-220	130	4	M18x1,5 x 240	19	4	11	25	21	2,20

Universal 2 arm puller

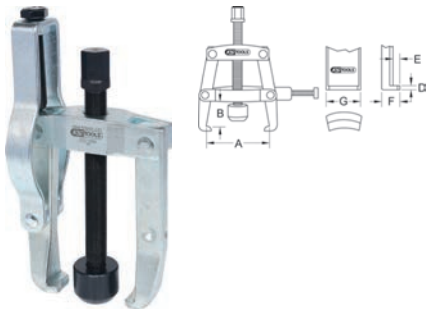
- Legs are adjustable in the working depth
- Extremely robust spindle with inductively hardened thread
- Special tool steel



	A mm	B mm	max t	mm	mm	D mm	E mm	F mm	G mm	kg
620.3401	20-170	130	3,5	M14x1,5 x 130	17	2	11	23	16	1,00
620.3402	20-230	200	4	M18x1,5 x 240	19	4,5	16	33	20	2,30

Universal bearing ring puller 2 arm with clamping yoke

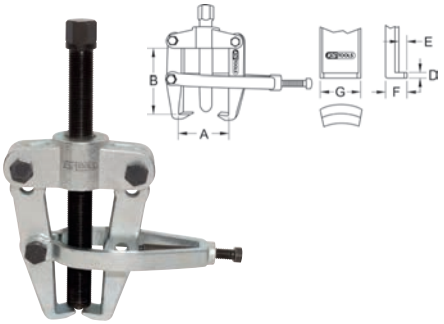
- Clamping yoke compresses the legs firmly
- Prevents slipping
- Pressure peak centers itself optimally in the cone of the hub boring
- Extremely robust spindle with inductively hardened thread
- Special tool steel



	A mm	B mm	max t	mm	mm	D mm	E mm	F mm	G mm	kg
700.1260	90	100	1,2	M16 x 150	17	6,5	8,5	22,5	27,1	1,76

Universal 2 arm puller set with clamping yoke

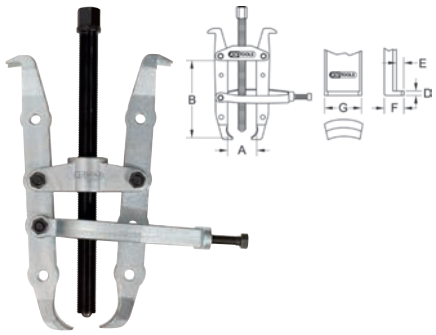
- Shearing action increases the pressing power when removing
- Clamping yoke compresses the legs firmly
- Prevents slipping
- Extremely robust spindle with inductively hardened thread
- Special tool steel



	A mm	B mm	max t	mm	mm	D mm	E mm	F mm	G mm	kg
620.5401	80	90	5	M18 x 1,5 x 130	19	3	12	26	24	1,70
620.5402	100	110	6	G1/2"x14g x 210	22	3	14	25	24	2,60
620.5403	150	150	8	G1/2"x14g x 210	22	3	14	25	24	3,40

Universal 2 arm puller set with clamping yoke

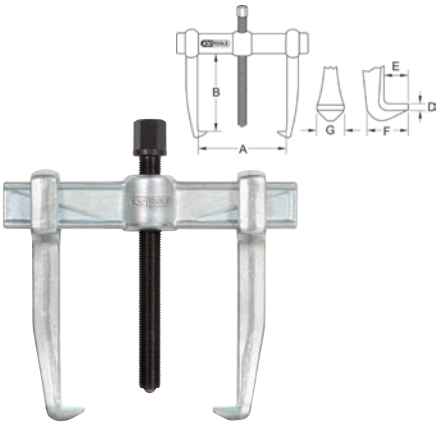
- Legs are adjustable in the working depth
- Legs double ended usable
- Clamping yoke compresses the legs firmly
- Prevents slipping
- Ideally suited for flush sitting bearings and bushes
- Extremely robust spindle with inductively hardened thread
- Special tool steel



	A mm	B mm	max t	mm	mm	D mm	E mm	F mm	G mm	kg
620.5501	110	170	5	M18x1,5 x 240	19	3	12	25	24	2,30
620.5502	150	270	6	G1/2"x14g x 270	22	3	14	25	24	4,10
620.5503	150	330	8	G1/2"x14g x 270	22	3	14	25	24	4,50

Universal 2 arm puller set with hardened steel legs

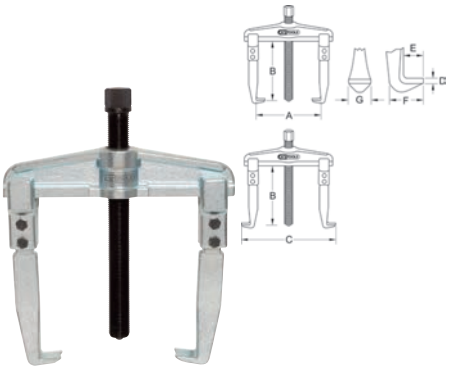
- Through reversing the arms internal and external applications are possible
- Hydraulic spindles available for thread G1/2" / G3/4"
- Extremely robust spindle with inductively hardened thread
- Special tool steel



	A mm	B mm	C mm	max t	mm	mm	D mm	E mm	F mm	G mm	kg
620.1301	15 -80	100	70-130	3,5	M14x1,5 x 130	17	3	12	22	22	0,90
620.1302	15-120	100	80-170	3,5	M14x1,5 x 130	17	3	12	22	22	1,00
620.1303	20-160	150	110-210	6	G1/2"x14g x 210	22	4	16	30	29	2,70
620.1304	20-200	150	120-250	6	G1/2"x14g x 210	27	4	16	30	29	3,00
620.1305	40-250	200	170-300	8	G3/4"x14g x 280	27	6,5	23	43	38	6,50
620.1306	40-350	200	190-400	8	G3/4"x14g x 280	27	6,5	23	43	38	7,60

Universal 2 arm puller

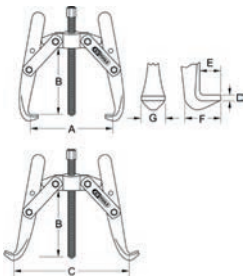
- Through reversing the arms internal and external applications are possible
- Hydraulic spindles available for thread G1/2" / G3/4" / G1"
- Extremely robust spindle with inductively hardened thread
- Special tool steel

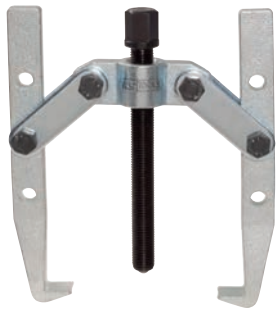


	A mm	B mm	C mm	max t	mm	mm	D mm	E mm	F mm	G mm	kg
620.0101	20-90	100	70-130	4,5	M14x1,5 x 140	17	3	13	25	20	1,00
620.0102	25-130	100	80-180	4,5	M14x1,5 x 140	17	3	13	25	20	1,20
620.0103	50-160	150	105-220	6,5	G1/2"x14g x 210	22	4	16	35	25	3,00
620.0104	60-200	150	120-270	6,5	G1/2"x14g x 210	22	4	16	35	25	3,30
620.0105	80-250	200	160-330	11	G3/4"x14g x 280	27	5	25	54	35	7,40
620.0106	80-350	200	160-420	11	G3/4"x14g x 280	27	5	25	54	35	8,50
620.0107	110-520	200	195-600	13	G3/4"x14g x 280	27	5	25	54	35	13,00
620.0108	170-640	225	250-720	18	G1"x11g x 310	36	10	33	55	50	23,70

Universal 2 arm puller

- Legs are adjustable in the working depth
- Hydraulic spindles available for thread G1/2"
- Extremely robust spindle with inductively hardened thread
- Special tool steel

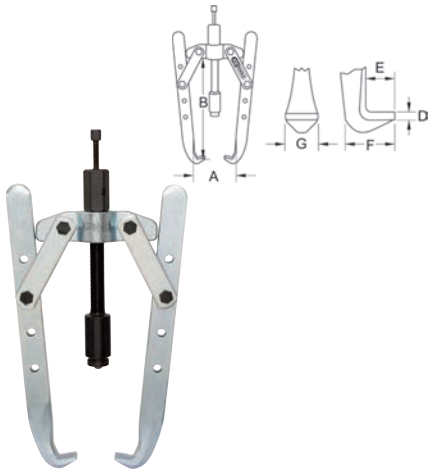




	A mm	B mm	max t	mm	mm	D mm	E mm	F mm	G mm	kg
620.3601	18-100	85	2,5	M10 x 105	12	2	10	20	14	0,40
620.3602	20-200	150	3,5	M14x1,5 x 130	17	3	14	25	18	1,20
620.3603	35-250	220	4	M18x1,5 x 240	19	4	20	35	25	2,80
620.3604	50-300	250	6	G1/2"x14g x 270	22	5	25	48	30	5,40
620.3605	50-350	350	6	G1/2"x14g x 270	22	5	25	48	30	6,10
620.3606	50-400	400	6	G1/2"x14g x 270	22	5	25	48	30	6,40
620.3607	50-450	450	6	G1/2"x14g x 270	22	5	25	48	30	6,90
620.3608	50-500	500	6	G1/2"x14g x 270	22	5	25	48	30	7,00
620.3609	50-500	650	6	G1/2"x14g x 270	22	5	25	48	30	8,40
620.3610	50-500	1000	6	G1/2"x14g x 270	22	5	25	48	30	11,00

Hydraulic universal 2 arm puller

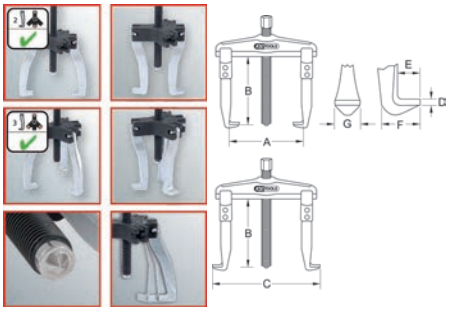
- Legs are adjustable in the working depth
- Different leg variants available
- Includes hydraulic thrust spindle
- Excellent power transfer
- Special tool steel



	A mm	B mm	max t	Hydraulic spindle	mm	D mm	E mm	F mm	G mm	kg
620.3801	50-300	175	12	615.0002	32	5	25	48	30	5,70
620.3802	50-350	275	12	615.0002	32	5	25	48	30	6,40
620.3803	50-400	325	12	615.0002	32	5	25	48	30	6,70
620.3804	50-450	375	12	615.0002	32	5	25	48	30	7,20
620.3805	50-500	425	12	615.0002	32	5	25	48	30	7,30
620.3806	50-500	575	12	615.0002	32	5	25	48	30	8,70

Universal 2 + 3 arm puller

- Legs double ended usable
- Through reversing the arms internal and external applications are possible
- Reception star for 2 or 3 hooks
- Extremely robust spindle with inductively hardened thread
- Special tool steel



	A mm	B mm	C mm	max t	mm	mm	D mm	E mm	F mm	G mm	kg
640.4203	60	65	90	2,0	G3/8"x1,06px110	13	3	10	18	11	0,47
640.4204	90	100	130	5,0	G9/16"x2,0px190	17	4	15,5	29	17	1,60
640.4205	165	170	170	7,0	G3/4"x2,0px285	22	4	15,5	29	17	3,20

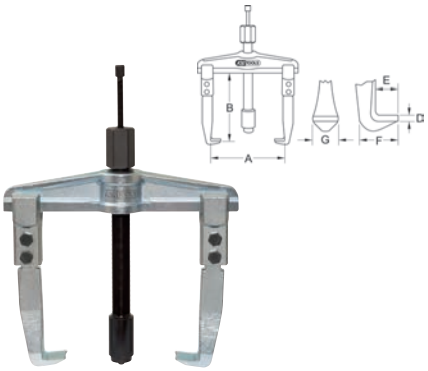
Universal puller 2 and 3 arm

- Legs double ended usable
- Reception star for 2 or 3 hooks
- Extremely robust spindle with inductively hardened thread
- Special tool steel

	A mm	B mm	max t	mm	mm	D mm	E mm	F mm	G mm	kg
700.1120	70	75	1,2	3/8"x24g x 120	13	3,2	8,4	20	8,4	0,96
700.1130	120	150	1,2	M14x1,25 x 175	16	7,2	7	17,8	7,0	1,83

Hydraulic universal 2 arm puller

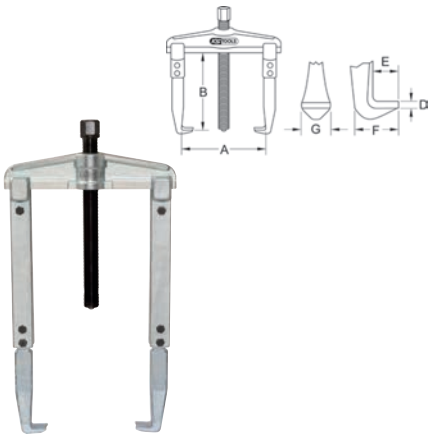
- Through reversing the arms internal and external applications are possible
- Different leg variants available
- Includes hydraulic thrust spindle
- Lower power usage
- Special tool steel



	A mm	B mm	C mm	max t	Hydraulic spindle	mm	D mm	E mm	F mm	G mm	kg
620.0301	50-160	145	105-220	12	615.0002	32	4	16	35	25	3,40
620.0302	50-200	145	120-270	12	615.0002	32	4	16	35	25	3,80
620.0303	80-250	125	160-330	12	615.0003	36	5	25	54	35	8,00
620.0304	80-350	125	160-420	12	615.0003	36	5	25	54	35	9,00
620.0305	110-520	125	195-600	12	615.0003	36	5	25	54	35	13,50
620.0306	170-640	125	250-720	12	615.0003	36	5	25	54	35	21,00
620.0307	170-640	210	250-720	15	615.0004	41	10	33	55	50	27,00

Universal 2 arm puller set with extended legs

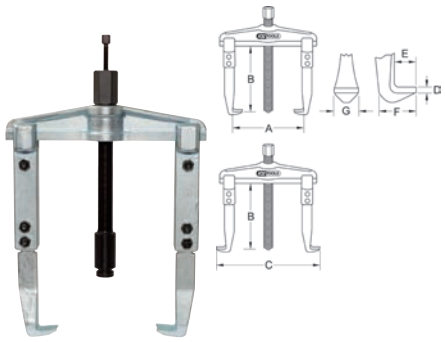
- Through reversing the arms internal and external applications are possible
- Hydraulic spindles available for thread G1/2" / G3/4"
- Extremely robust spindle with inductively hardened thread
- Special tool steel



	A mm	B mm	C mm	max t	mm	mm	D mm	E mm	F mm	G mm	kg
620.0501	20-90	200	70-130	4,5	M14x1,5 x 140	17	3	13	25	20	1,50
620.0502	25-130	200	80-180	4,5	M14x1,5 x 140	17	3	13	25	20	1,70
620.0503	50-160	300	105-220	6,5	G1/2"x14g x 210	22	4	16	35	25	4,00
620.0504	60-200	300	120-270	6,5	G1/2"x14g x 210	22	4	16	35	25	4,30
620.0505	80-250	300	160-330	11	G3/4"x14g x 280	27	5	25	54	35	9,20
620.0506	80-350	300	160-420	11	G3/4"x14g x 280	27	5	25	54	35	10,30
620.0507	110-520	300	195-600	13	G3/4"x14g x 280	27	5	25	54	35	14,80
620.0508	80-250	400	160-330	11	G3/4"x14g x 280	27	5	25	54	35	10,50
620.0509	80-350	400	160-420	11	G3/4"x14g x 280	27	5	25	54	35	11,60
620.0510	110-520	400	195-600	13	G3/4"x14g x 280	27	5	25	54	35	16,10
620.0511	80-250	500	160-330	11	G3/4"x14g x 280	27	5	25	54	35	11,90
620.0512	80-350	500	160-420	11	G3/4"x14g x 280	27	5	25	54	35	13,00
620.0513	110-520	500	195-600	13	G3/4"x14g x 280	27	5	25	54	35	17,50

Hydraulic universal 2 arm puller

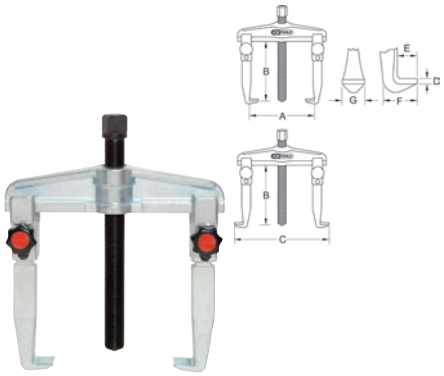
- Through reversing the arms internal and external applications are possible
- Hydraulic spindles available for thread G1/2"
- Includes hydraulic thrust spindle
- Lower power usage
- Special tool steel



	A mm	B mm	C mm	max t	Hydraulic spindle	mm	D mm	E mm	F mm	G mm	kg
620.0701	50-160	225	105-220	12	615.0002	13	4	16	35	25	3,90
620.0702	50-200	225	120-270	12	615.0002	13	4	16	35	25	4,80
620.0703	80-250	225	160-330	12	615.0002	13	5	25	54	35	9,80
620.0704	80-350	225	160-420	12	615.0002	13	5	25	54	35	10,80
620.0705	110-520	225	195-600	12	615.0002	13	5	25	54	35	15,30
620.0706	80-250	325	160-330	12	615.0002	13	5	25	54	35	11,10
620.0707	80-350	325	160-420	12	615.0002	13	5	25	54	35	12,10
620.0708	110-520	325	195-600	12	615.0002	13	5	25	54	35	16,60
620.0709	80-250	425	160-330	12	615.0002	13	5	25	54	35	12,50
620.0710	80-350	425	160-420	12	615.0002	13	5	25	54	35	13,50
620.0711	110-520	425	195-600	12	615.0002	13	5	25	54	35	18,00

Quick release universal 2 arm puller

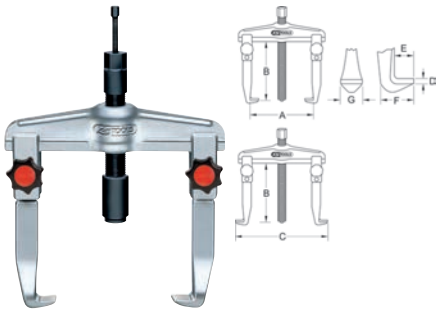
- Quick release function
- Through reversing the arms internal and external applications are possible
- Hydraulic spindles available for thread G1/2" / G3/4"
- Extremely robust spindle with inductively hardened thread
- Special tool steel



	A mm	B mm	C mm	max t	mm	mm	D mm	E mm	F mm	G mm	kg
620.1701	20-90	100	70-130	4,5	M14x1,5 x 130	17	3	13	25	20	1,00
620.1702	25-130	100	80-180	4,5	M14x1,5 x 130	17	3	13	25	20	1,20
620.1703	50-160	150	108-220	6,5	G1/2"x14g x 210	22	4	16	35	25	3,00
620.1704	60-200	150	120-270	6,5	G1/2"x14g x 210	22	4	16	35	25	3,30
620.1705	80-250	200	160-330	11	G3/4"x14g x 280	27	5	25	54	35	7,40
620.1706	80-350	200	160-420	11	G3/4"x14g x 280	27	5	25	54	35	8,50

Hydraulic quick release universal 2 arm puller

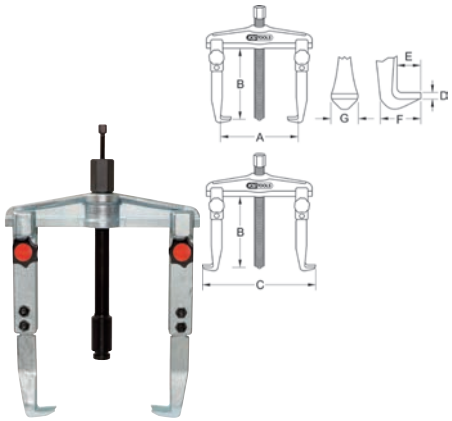
- Quick release function
- Through reversing the arms internal and external applications are possible
- Different leg variants available
- Includes hydraulic thrust spindle
- Excellent power transfer
- Special tool steel



	A mm	B mm	C mm	max t	Hydraulic spindle	mm	D mm	E mm	F mm	G mm	kg
620.1901	50-160	145	105-220	12	615.0003	32	4	16	35	25	3,40
620.1902	50-200	145	120-270	12	615.0003	32	4	16	35	25	3,80
620.1903	80-250	125	160-330	12	615.0004	32	5	25	54	35	8,00
620.1904	80-350	125	160-420	12	615.0004	32	5	25	54	35	9,00

Hydraulic quick release universal 2 arm puller with extended legs

- Quick release function
- Long execution
- even load distribution and centred pull-off
- Through reversing the arms internal and external applications are possible
- Different leg variants available
- Includes hydraulic thrust spindle
- Lower power usage
- Special tool steel



	A mm	B mm	C mm	max t	Hydraulic spindle	mm	D mm	E mm	F mm	G mm	kg
620.0075	80-250	225	160-330	12	615.0003	13	5	25	54	35	9,80
620.0076	80-250	325	160-330	12	615.0003	13	5	25	54	35	11,10
620.0077	80-250	425	160-330	12	615.0003	13	5	25	54	35	12,50
620.0078	80-350	225	160-420	12	615.0003	13	5	25	54	35	10,80
620.0079	80-350	325	160-420	12	615.0003	13	5	25	54	35	12,10
620.0081	80-350	425	160-420	12	615.0003	13	5	25	54	35	13,80
620.0082	110-520	225	195-600	12	615.0003	13	5	25	54	35	15,30
620.0083	110-520	325	195-600	12	615.0003	13	5	25	54	35	16,60
620.0084	110-520	425	195-600	12	615.0003	13	5	25	54	35	18,30
620.0085	140-640	225	225-715	12	615.0003	13	5	25	54	35	19,80
620.0086	140-640	325	225-715	12	615.0003	13	5	25	54	35	21,10
620.0087	140-640	425	225-715	12	615.0003	13	5	25	54	35	22,50

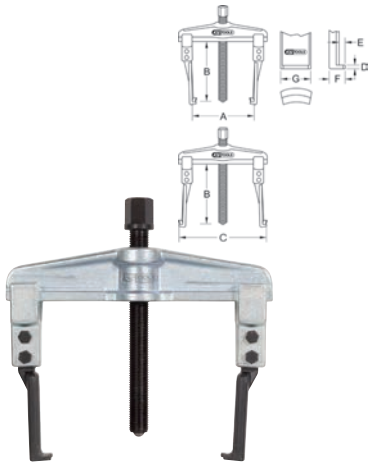
Universal 2 arm puller set with extremely narrow legs

- Narrow execution
- extremely pointed hook foot
- Ideal for confined spaces
- Uniform load distribution and centered tightening
- Through reversing the arms internal and external applications are possible
- Wide range of arms and hydraulic spindles available
- Extremely robust spindle with inductively hardened thread
- Special tool steel

	A mm	B mm	C mm	max t	mm	mm	D mm	E mm	F mm	G mm	kg
620.0041	20-90	100	70-130	2,5	M14x1,5 x 130	17	3,6	8	14	14	1,00
620.0042	25-130	100	80-180	2,5	M14x1,5 x 130	17	3,6	8	14	14	1,20
620.0043	50-160	150	105-220	5	G1/2"x14 x 210	22	5	7,5	15	27	2,90
620.0044	60-200	150	120-270	5	G1/2"x14 x 210	22	5	7,5	15	27	3,20

Universal 2 arm puller set with narrow legs

- Ideal for confined spaces
- Uniform load distribution and centered tightening
- Through reversing the arms internal and external applications are possible
- Wide range of arms and hydraulic spindles available
- Extremely robust spindle with inductively hardened thread
- Special tool steel



	A mm	B mm	C mm	max t	mm	mm	D mm	E mm	F mm	G mm	kg
620.0023	20-90	100	90-170	3,5	M14x1,5 x 130	17	2	8	14	28	1,00
620.0024	25-130	100	95-175	3,5	M14x1,5 x 130	17	2	8	14	28	1,20
620.0901	20-90	100	70-130	4,5	M14x1,5 x 140	17	3,6	6	13	27	1,00
620.0902	25-130	100	80-180	4,5	M14x1,5 x 140	17	3,6	6	13	27	1,20
620.0903	50-160	150	105-220	6,5	G1/2x14g x 210	22	5	8	17	40	3,00
620.0904	60-200	150	120-270	6,5	G1/2x14g x 210	22	5	8	17	40	3,30

Universal 2 arm puller set with extremely narrow and extended legs

- extremely pointed hook foot
- Ideal for confined spaces
- Long execution
- Uniform load distribution and centered tightening
- Through reversing the arms internal and external applications are possible
- Wide range of arms and hydraulic spindles available
- Extremely robust spindle with inductively hardened thread
- Special tool steel

	A mm	B mm	C mm	max t	mm	mm	D mm	E mm	F mm	G mm	kg
620.0027	20-90	120	70-130	3,5	M14x1,5 x 130	17	2	8	14	28	1,10
620.0028	20-90	200	70-130	3,5	M14x1,5 x 130	17	2	8	14	28	1,50
620.0029	20-90	250	70-130	3,5	M14x1,5 x 130	17	2	8	14	28	1,70
620.0031	25-130	120	80-180	3,5	M14x1,5 x 130	17	2	8	14	28	1,30
620.0032	25-130	200	80-180	3,5	M14x1,5 x 130	17	2	8	14	28	1,70
620.0033	25-130	250	80-180	3,5	M14x1,5 x 130	17	2	8	14	28	1,90

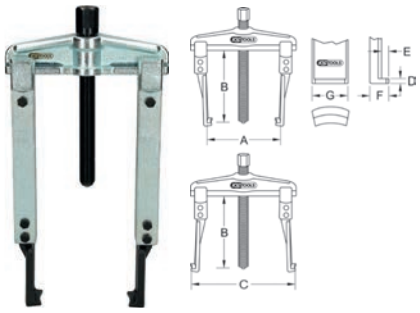
Universal 2 arm puller set with extremely narrow and extended legs

- Narrow execution
- Long execution
- extremely pointed hook foot
- Ideal for confined spaces
- Uniform load distribution and centered tightening
- Through reversing the arms internal and external applications are possible
- Wide range of arms and hydraulic spindles available
- Extremely robust spindle with inductively hardened thread
- Special tool steel

	A mm	B mm	C mm	max t	mm	mm	D mm	E mm	F mm	G mm	kg
620.0051	20-90	120	70-130	2,5	M14x1,5 x 130	17	3,6	8	14	14	1,10
620.0052	20-90	200	70-130	2,5	M14x1,5 x 130	17	3,6	8	14	14	1,50
620.0053	20-90	250	70-130	2,5	M14x1,5 x 130	17	3,6	8	14	14	1,70
620.0054	25-130	120	80-180	2,5	M14x1,5 x 130	17	3,6	8	14	14	1,30
620.0055	25-130	200	80-180	2,5	M14x1,5 x 130	17	3,6	8	14	14	1,70
620.0056	25-130	250	80-180	2,5	M14x1,5 x 130	17	3,6	8	14	14	1,90
620.0057	50-160	220	105-220	5	G1/2"x14 x 210	22	5	7,5	15	27	3,50
620.0058	50-160	300	105-220	5	G1/2"x14 x 210	22	5	7,5	15	27	4,00
620.0059	60-200	220	120-270	5	G1/2"x14 x 210	22	5	7,5	15	27	3,80
620.0061	60-200	300	120-270	5	G1/2"x14 x 210	22	5	7,5	15	27	4,30

Universal 2 arm puller set with narrow and extended legs

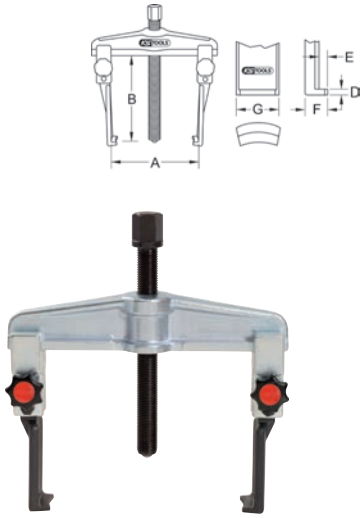
- Ideal for confined spaces
- Long execution
- Uniform load distribution and centered tightening
- Through reversing the arms internal and external applications are possible
- Wide range of arms and hydraulic spindles available
- Extremely robust spindle with inductively hardened thread
- Special tool steel



	A mm	B mm	C mm	max t	mm	mm	D mm	E mm	F mm	G mm	kg
620.0001	20-90	120	70-130	4,5	M14x1,5 x 130	17	3,6	8	14	28	1,10
620.0002	20-90	200	70-130	4,5	M14x1,5 x 130	17	3,6	8	14	28	1,50
620.0003	20-90	250	70-130	4,5	M14x1,5 x 130	17	3,6	8	14	28	1,70
620.0004	25-130	120	80-180	4,5	M14x1,5 x 130	17	3,6	8	14	28	1,30
620.0005	25-130	200	80-180	4,5	M14x1,5 x 130	17	3,6	8	14	28	1,70
620.0006	25-130	250	80-180	4,5	M14x1,5 x 130	17	3,6	8	14	28	1,90
620.0007	50-160	220	105-220	6,5	G1/2"x14 x 210	22	5	7,5	15	40	3,50
620.0008	50-160	300	105-220	6,5	G1/2"x14 x 210	22	5	7,5	15	40	4,00
620.0009	60-200	220	120-270	6,5	G1/2"x14 x 210	22	5	7,5	15	40	3,80
620.0011	60-200	300	120-270	6,5	G1/2"x14 x 210	22	5	7,5	15	40	4,30

Quick release universal 2 arm puller set with narrow legs

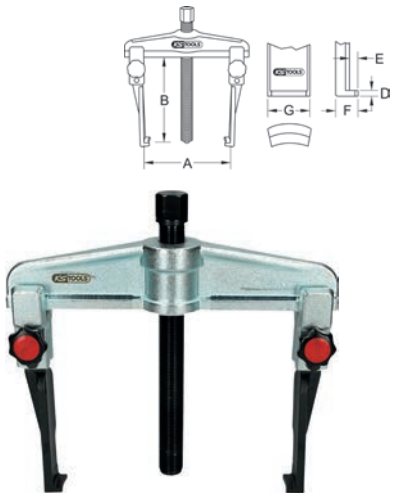
- Quick release function
- Ideal for confined spaces
- Through reversing the arms internal and external applications are possible
- Hydraulic spindles available for thread G1/2"
- Extremely robust spindle with inductively hardened thread
- Special tool steel



	A mm	B mm	C mm	max t	mm	mm	D mm	E mm	F mm	G mm	kg
620.0025	20-90	100	70-130	3,5	M14x1,5 x 130	17	2	8	14	28	1,00
620.0026	25-130	100	80-180	3,5	M14x1,5 x 130	17	2	8	14	28	1,20
620.1101	20-90	100	70-130	4,5	M14x1,5 x 140	17	3,6	6	13	27	1,00
620.1102	25-130	100	80-180	4,5	M14x1,5 x 140	17	3,6	6	13	27	1,20
620.1103	50-160	150	105-220	6,5	G1/2"x14g x 210	22	5	8	17	40	3,00
620.1104	60-200	150	120-270	6,5	G1/2"x14g x 210	22	5	8	17	40	3,30

Quick adjustment universal 2 arm puller set with extremely narrow legs

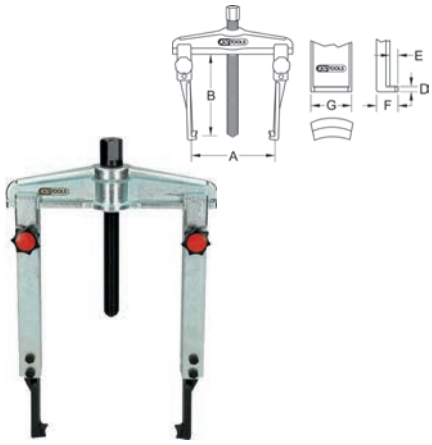
- Quick release function
- Narrow execution
- extremely pointed hook foot
- Ideal for confined spaces
- Uniform load distribution and centered tightening
- Through reversing the arms internal and external applications are possible
- Wide range of arms and hydraulic spindles available
- Extremely robust spindle with inductively hardened thread
- Special tool steel



	A mm	B mm	C mm	max t	mm	mm	D mm	E mm	F mm	G mm	kg
620.0045	20-90	100	70-130	2,5	M14x1,5 x 130	17	3,6	8	14	14	1,00
620.0046	25-130	100	80-180	2,5	M14x1,5 x 130	17	3,6	8	14	14	1,20
620.0047	50-160	150	105-220	5	G1/2"x14 x 210	22	5	7,5	15	27	2,90
620.0048	60-200	150	120-270	5	G1/2"x14 x 210	22	5	7,5	15	27	3,20

Quick adjustment universal 2 arm puller set with extremely narrow and extended legs

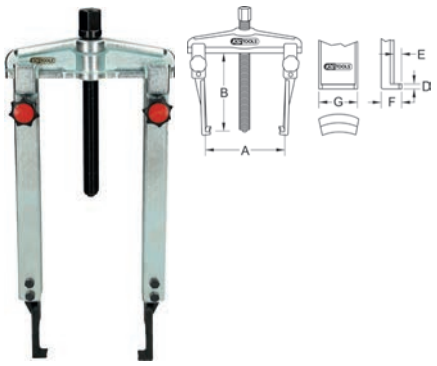
- Quick release function
- extremely pointed hook foot
- Ideal for confined spaces
- Long execution
- Uniform load distribution and centered tightening
- Through reversing the arms internal and external applications are possible
- Wide range of arms and hydraulic spindles available
- Extremely robust spindle with inductively hardened thread
- Special tool steel



	A mm	B mm	C mm	max t	mm	mm	D mm	E mm	F mm	G mm	kg
620.0034	20-90	120	70-130	3,5	M14x1,5 x 130	17	2	8	14	28	1,10
620.0035	20-90	200	70-130	3,5	M14x1,5 x 130	17	2	8	14	28	1,50
620.0036	20-90	250	70-130	3,5	M14x1,5 x 130	17	2	8	14	28	1,70
620.0037	25-130	120	80-180	3,5	M14x1,5 x 130	17	2	8	14	28	1,30
620.0038	25-130	200	80-180	3,5	M14x1,5 x 130	17	2	8	14	28	1,70
620.0039	25-130	250	80-180	3,5	M14x1,5 x 130	17	2	8	14	28	1,90

Quick adjustment universal 2 arm puller set with extremely narrow and extended legs

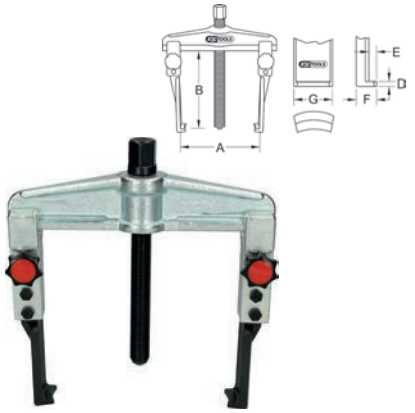
- Quick release function
- Narrow execution
- Long execution
- extremely pointed hook foot
- Ideal for confined spaces
- Uniform load distribution and centered tightening
- Through reversing the arms internal and external applications are possible
- Wide range of arms and hydraulic spindles available
- Extremely robust spindle with inductively hardened thread
- Special tool steel



	A mm	B mm	C mm	max t	mm	mm	D mm	E mm	F mm	G mm	kg
620.0062	20-90	120	70-130	2,5	M14x1,5 x 130	17	3,6	8	14	14	1,10
620.0063	20-90	200	70-130	2,5	M14x1,5 x 130	17	3,6	8	14	14	1,50
620.0064	20-90	250	70-130	2,5	M14x1,5 x 130	17	3,6	8	14	14	1,70
620.0065	25-130	120	80-180	2,5	M14x1,5 x 130	17	3,6	8	14	14	1,30
620.0066	25-130	200	80-180	2,5	M14x1,5 x 130	17	3,6	8	14	14	1,70
620.0067	25-130	250	80-180	2,5	M14x1,5 x 130	17	3,6	8	14	14	1,90
620.0068	50-160	220	105-220	5,0	G1/2"x14 x 210	22	5	7,5	15	27	3,50
620.0069	50-160	300	105-220	5,0	G1/2"x14 x 210	22	5	7,5	15	27	4,00
620.0071	60-200	220	120-270	5,0	G1/2"x14 x 210	22	5	7,5	15	27	3,80
620.0072	60-200	300	120-270	5,0	G1/2"x14 x 210	22	5	7,5	15	27	4,30

Quick adjustment universal 2 arm puller set with narrow and extended legs

- Quick release function
- Ideal for confined spaces
- Long execution
- Uniform load distribution and centered tightening
- Through reversing the arms internal and external applications are possible
- Wide range of arms and hydraulic spindles available
- Extremely robust spindle with inductively hardened thread
- Special tool steel



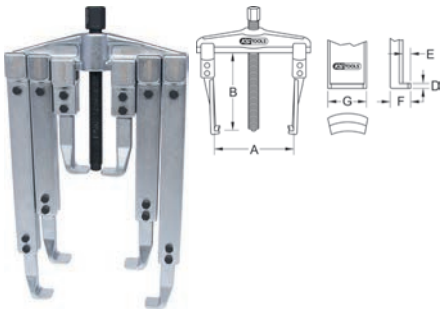
	A mm	B mm	C mm	max t	mm	mm	D mm	E mm	F mm	G mm	kg
620.0012	20-90	120	70-130	4,5	M14x1,5 x 130	17	3,6	8	14	28	1,10
620.0013	20-90	200	70-130	4,5	M14x1,5 x 130	17	3,6	8	14	28	1,50
620.0014	20-90	250	70-130	4,5	M14x1,5 x 130	17	3,6	8	14	28	1,70
620.0015	25-130	120	80-180	4,5	M14x1,5 x 130	17	3,6	8	14	28	1,30
620.0016	25-130	200	80-180	4,5	M14x1,5 x 130	17	3,6	8	14	28	1,70
620.0017	25-130	250	80-180	4,5	M14x1,5 x 130	17	3,6	8	14	28	1,90
620.0018	50-160	220	105-220	6,5	G1/2"x14 x 210	17	5	7,5	15	40	3,50
620.0019	50-160	300	105-220	6,5	G1/2"x14 x 210	17	5	7,5	15	40	4,00
620.0021	60-200	220	120-270	6,5	G1/2"x14 x 210	17	5	7,5	15	40	3,80
620.0022	60-200	300	120-270	6,5	G1/2"x14 x 210	17	5	7,5	15	40	4,30

UNIVERSAL 2 ARM PULLER SET

Universal puller set

- Through reversing the arms internal and external applications are possible
- Two armed traverse for 2 or 3 hooks
- Wide range of arms and hydraulic spindles available
- Extremely robust spindle with inductively hardened thread
- Special tool steel

Application range: Gear wheels, bearings, pinions, synchroniser hubs etc.



		A mm	B mm	max t	max N·m	mm	mm	kg
700.1320	8 pcs	120	260	4,5	80	M14x 1,5x150	17	3,54

consists of:

		g
700.1311	Spindle, M14x1,5	180
700.1312	Two armed traverse	485
700.1321	Draw-off arm, 120mm	260
700.1322	Draw-off arm, 230mm	540
700.1323	Draw-off arm, 280mm	640

Universal puller set

- Legs double ended usable
- Reception star for 2 or 3 hooks
- Extremely robust spindle with inductively hardened thread
- Special tool steel
- In durable plastic storage case

			kg
700.1100	11 pcs	Universal puller set	4,39

consists of:

		kg
700.1120	Mechanical 2 and 3 leg puller, 4"	0,96
700.1130	Mechanical 2 and 3 leg puller, 6"	1,83
700.1140	Bearing splitter, for max. Ø 50 mm	1,15

Quick adjustment universal puller set

- Quick release function
- Ideal for confined spaces
- Through reversing the arms internal and external applications are possible
- Wide range of arms and hydraulic spindles available
- Extremely robust spindle with inductively hardened thread
- Special tool steel
- In durable plastic storage case

		A mm	B mm	mm	max t	kg
625.1701	7 pcs	20 - 90	100	M14 x 1,5	5,5	2,30

consists of:

		kg
620.1701	Quick release universal 2 arm puller, 20-90mm	1,00
630.1701	Quick release 3 arm puller, 20-90mm	1,30
980.1090	Special thread grease, tube	0,01

Quick adjustment universal puller set

- Quick release function
- Ideal for confined spaces
- Through reversing the arms internal and external applications are possible
- Wide range of arms and hydraulic spindles available
- Extremely robust spindle with inductively hardened thread
- Special tool steel
- In durable plastic storage case

		A mm	B mm	mm	max t	kg
625.1703	7 pcs	50 - 160	150	G1/2"x14Gg	5.5	6,50

consists of:

		kg
620.1703	Quick release universal 2 arm puller, 50-160mm	3,00
630.1703	Quick release 3 arm puller, 50-160mm	3,50
980.1090	Special thread grease, tube	0,01

Hydraulic universal 2 + 3 arm puller set

- Less risk of slipage due to automatically closing pulling arm
- 8 length positions possible
- Extremely robust spindle with inductively hardened thread
- Lower power usage
- Special tool steel
- In durable plastic storage case

			kg
700.1200	22 pcs	Hydraulic universal 2 + 3 arm puller set	16,40

consists of:

		g
700.1202	Puller legs, 4”	410
700.1203	Puller legs, 6”	600
700.1204	Puller legs, 8”	840
700.1205	Yoke f.2 legs, quickly modified	300
700.1206	Yoke f.3 legs, quickly modified	760
700.1207	Thrust bolt extension, 20 mm	50
700.1208	Thrust bolt extension, 35 mm	130
700.1209	Thrust bolt extension, 85 mm	320
700.1210	Pulling ring f.hydraulic thrust bolt	322
700.1220	Separator/puller tool,for max. Ø 105 mm	2540
700.1221	Yoke f.bearing separator tool	1480
700.1222	Extension f.bearing separator tool,185mm	1060
700.1223	Spigot f.bearing separator tool, 235mm	1110
700.1400-1	Hydraulic spindle 10 t, AG 1.1/2”x16G	1344

Universal 2 + 3 arm puller set

- Slim hooks
- Ideal for confined spaces
- Uniform load distribution and centered tightening
- Through reversing the arms internal and external applications are possible
- Wide range of arms and hydraulic spindles available
- Extremely robust spindle with inductively hardened thread
- Excellent power transfer
- Special tool steel
- In durable plastic storage case

			kg
700.1300	12 pcs	Universal 2 + 3 arm puller set	6,69

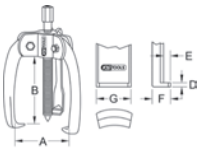
consists of:

		g
700.1311	Spindle, M14x1,5	180
700.1312	Two armed traverse	485
700.1313	Three armed traverse	675
700.1314	Draw-off arm, 100mm	250
700.1315	Draw-off arm, 210mm	530
700.1316	Draw-off arm, 260mm	640

UNIVERSAL 3 ARM PULLER

Universal 3 arm puller

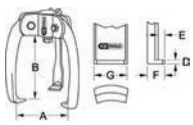
- With tension screw for proportional tension force distribution
- Extremely robust spindle with inductively hardened thread
- Special tool steel



	A mm	B mm	max t	mm	mm	D mm	E mm	F mm	G mm	g
630.0015	10-60	45	2,5	M10x105	12	1	5	12	8	400
630.0016	15-70	65	3,0	M10x105	12	1	5	12	8	500
630.0017	20-100	80	3,5	M10x150	12	1,8	10	20	12	800

Universal 3 arm puller with slide hammer

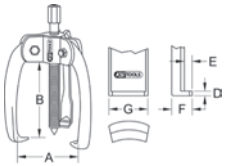
- With tension screw for proportional tension force distribution
- Extremely robust spindle with inductively hardened thread
- Special tool steel



	A mm	B mm	max t	D mm	E mm	F mm	G mm	kg
630.0018	10-60	45	2,5	1	5	12	8	1,30
630.0019	15-70	65	3,0	1	5	12	8	1,70
630.0021	20-100	80	3,5	1,8	10	20	12	2,00

Basic universal 3 arm puller

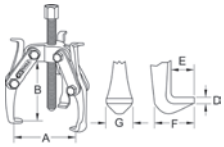
- Uniform load distribution and centered tightening
- Extremely robust spindle with inductively hardened thread
- Special tool steel



	A mm	B mm	max t	mm	mm	D mm	E mm	F mm	G mm	kg
630.4301	10-100	80	2,5	M12x1,25 x 162	14	4	12	26	13	0,91
630.4302	10-120	120	3	M14x1,5 x 193	17	5	14	30	16	1,49
630.4303	20-160	160	3,5	M18x1,5 x 243	19	6	18	36	20	2,50
630.4304	20-200	200	4	M22x2 x 293	24	7	22	40	24	4,20

Universal 3 arm puller

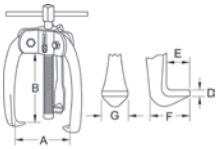
- Legs double ended usable
- Extremely robust spindle with inductively hardened thread
- Special tool steel



	A mm	B mm	max t	mm	mm	D mm	E mm	F mm	G mm	kg
630.3001	20-150	85	4	M14x1,5 x 130	17	2	9	21	12	1,20
630.3002	40-220	130	4,5	M18x1,5 x 240	19	4	11	25	21	2,90

Universal 3 arm puller

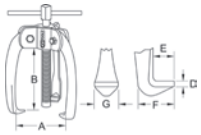
- Locking handle
- Uniform load distribution and centered tightening
- Ideally suited for extracting small parts
- Automatic pressure on the legs
- Extremely robust spindle with inductively hardened thread
- Special tool steel



	A mm	B mm	max t	mm	mm	D mm	E mm	F mm	G mm	g
630.4101	10-60	45	2,5	M10x1 x 90	12	2	9	18	10	300
630.4102	10-70	65	3	M10x1 x 110	12	2	9	18	10	300
630.4103	10-100	80	3,5	M12x1,25 x 140	14	2,3	12	25	13	800

3-jaw pole terminal extractor with t-bar

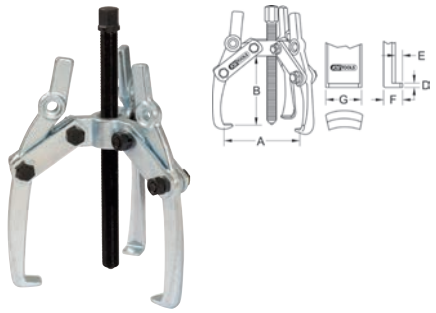
- 3-jaw
- Ideally suited for removing the battery pole terminal
- Locking handle
- Automatic pressure on the legs
- Extremely robust spindle with inductively hardened thread
- Screwed
- Sturdy hook
- Special tool steel



	A mm	B mm	max t	mm	D mm	E mm	F mm	G mm	g
700.1167	10-60	40	0,75	M10 x 60	2,3	5,5	12,3	10,0	181
700.1168	10-60	60	0,8	M10 x 80	3,0	5,5	12,5	10,0	215
700.1169	10-70	80	1,0	M10 x 100	3,0	8,0	15,2	14,1	323

Universal 3 arm puller

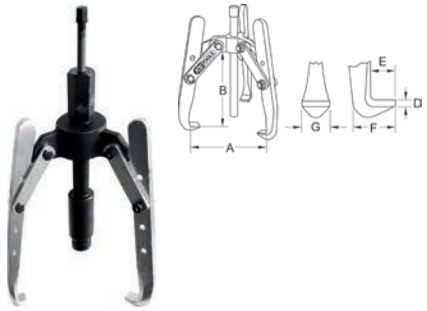
- Legs are adjustable in the working depth
- Uniform load distribution and centered tightening
- Extremely robust spindle with inductively hardened thread
- Special tool steel



	A mm	B mm	max t	mm	mm	D mm	E mm	F mm	G mm	kg
630.3401	20-170	130	4	M14x1,5 x 130	17	2	11	23	16	1,30
630.3402	20-230	200	4,5	M18x1,5 x 240	19	4,5	16	33	20	3,10

Hydraulic universal 3 arm puller

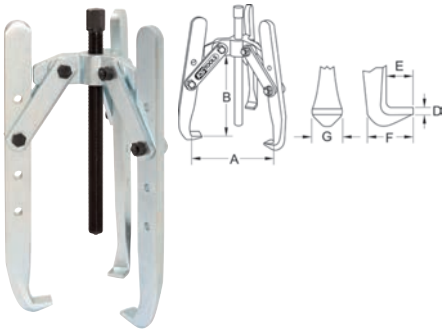
- Legs are adjustable in the working depth
- Uniform load distribution and centered tightening
- Through reversing the arms internal and external applications are possible
- Pulling hooks are automatically pressed against the part to be pulled off
- Different leg variants available
- Includes hydraulic thrust spindle
- Excellent power transfer
- Special tool steel



	A mm	B mm	C mm	max t	mm	mm	D mm	E mm	F mm	G mm	kg
630.0027	50-350	135	90-135	15	M11x1,5 x 100	17	5	25	48	30	12,50
630.0028	50-350	135	95-140	15	M11x1,5 x 100	17	5	25	48	30	13,50
630.0029	50-350	135	90-130	15	M11x1,5 x 100	17	5	25	48	30	14,00
630.0031	50-350	135	100-175	15	M11x1,5 x 100	17	5	25	48	30	14,50
630.0032	50-350	135	100-180	15	M11x1,5 x 100	17	5	25	48	30	15,00

Universal 3 arm puller

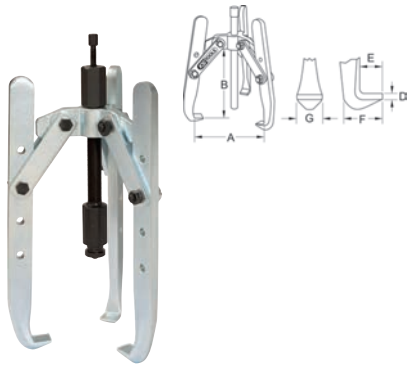
- Legs are adjustable in the working depth
- Uniform load distribution and centered tightening
- Hydraulic spindles available for thread G1/2”
- Extremely robust spindle with inductively hardened thread
- Special tool steel



	A mm	B mm	max t	mm	mm	D mm	E mm	F mm	G mm	kg
630.3601	18-100	85	3	M10 x 105	12	2	10	20	14	0,50
630.3602	20-200	150	4	M14x1,5 x130	17	3	14	25	18	1,70
630.3603	35-250	220	4,5	M18x1,5 x240	19	4	20	36	25	3,90
630.3604	50-300	250	12	G1/2"x14g x 270	22	5	25	48	30	7,30
630.3605	50-350	350	12	G1/2"x14g x 270	22	5	25	48	30	8,30
630.3606	50-400	400	12	G1/2"x14g x 270	22	5	25	48	30	8,80
630.3607	50-450	450	12	G1/2"x14g x 270	22	5	25	48	30	9,40
630.3608	50-500	500	12	G1/2"x14g x 270	22	5	25	48	30	10,00
630.3609	50-500	650	12	G1/2"x14g x 270	22	5	25	48	30	11,60
630.3610	50-500	1000	12	G1/2"x14g x 270	22	5	25	48	30	16,00

Hydraulic universal 3 arm puller

- Legs are adjustable in the working depth
- Uniform load distribution and centered tightening
- Wide range of arms and hydraulic spindles available
- Includes hydraulic thrust spindle
- Excellent power transfer
- Special tool steel



	A mm	B mm	max t	mm	mm	D mm	E mm	F mm	G mm	kg
630.3801	50-300	250	12	M14x1,5 x 100	17	5	25	48	30	12,50
630.3802	50-350	350	12	M14x1,5 x 100	17	5	25	48	30	13,50
630.3803	50-400	400	12	M14x1,5 x 100	17	5	25	48	30	14,00
630.3804	50-450	450	12	M14x1,5 x 100	17	5	25	48	30	14,50
630.3805	50-500	500	12	M14x1,5 x 100	17	5	25	48	30	15,00
630.3806	50-500	650	12	M14x1,5 x 100	17	5	25	48	30	16,60
630.3807	50-500	1000	12	M14x1,5 x 100	17	5	25	48	30	21,50

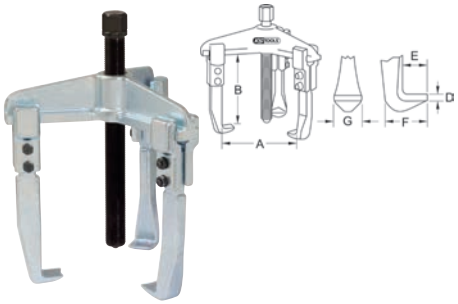
Universal puller 2 and 3 arm

- Legs double ended usable
- Reception star for 2 or 3 hooks
- Extremely robust spindle with inductively hardened thread
- Special tool steel

	A mm	B mm	max t	mm	mm	D mm	E mm	F mm	G mm	g
700.1120	70	75	1,2	3/8"x24g x 120	13	3,2	8,4	20	8,4	960
700.1130	120	150	1,2	M14x1,25 x 175	16	7,2	7	17,8	7,0	1830

Universal 3 arm puller

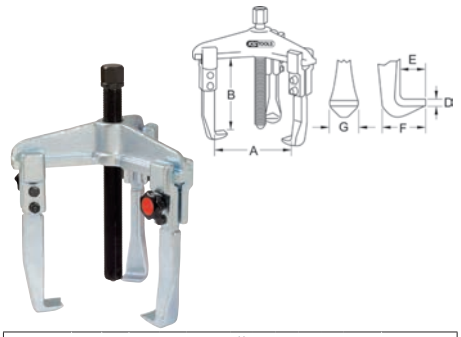
- Uniform load distribution and centered tightening
- Through reversing the arms internal and external applications are possible
- Hydraulic spindles available for thread G1/2”
- Excellent power transfer
- Special tool steel



	A mm	B mm	C mm	max t	mm	mm	D mm	E mm	F mm	G mm	kg
630.0101	20-90	100	70-140	5,5	M14x1,5 x 130	17	3	13	25	20	1,30
630.0102	25-130	100	75-155	5,5	M14x1,5 x 130	17	3	13	25	20	1,50
630.0103	50-160	150	130-220	7	G1/2"x14g x 210	22	4	16	35	25	3,50
630.0104	50-200	150	130-255	7	G1/2"x14g x 210	22	4	16	35	25	4,00

Quick release 3 arm puller

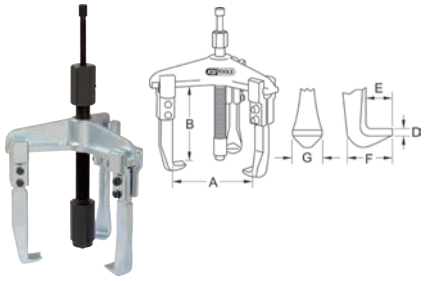
- Quick release
- Ideal for confined spaces
- Uniform load distribution and centered tightening
- Through reversing the arms internal and external applications are possible
- Hydraulic spindles available for thread G1/2”
- Extremely robust spindle with inductively hardened thread
- Special tool steel



	A mm	B mm	C mm	max t	mm	mm	D mm	E mm	F mm	G mm	kg
630.1701	20-90	100	15-145	5,5	M14x1,5 x 130	17	3	13	25	20	1,30
630.1702	25-130	100	15-170	5,5	M14x1,5 x 130	17	3	13	25	20	1,50
630.1703	50-160	150	75-185	7	G1/2"x14g x 210	22	4	16	35	25	3,50
630.1704	60-200	150	85-225	7	G1/2"x14g x 210	22	4	16	35	25	4,00

Hydraulic universal 3 arm puller

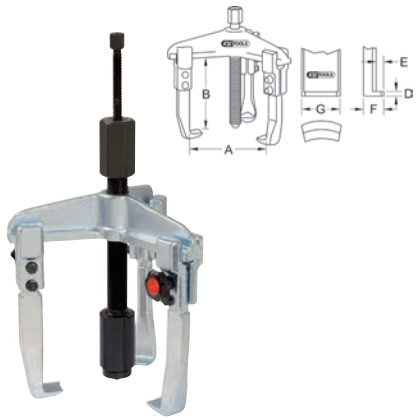
- Uniform load distribution and centered tightening
- Through reversing the arms internal and external applications are possible
- Different leg variants available
- Includes hydraulic thrust spindle
- Excellent power transfer
- Special tool steel



	A mm	B mm	C mm	max t	Hydraulic spindle	mm	D mm	E mm	F mm	G mm	kg
630.0301	50-160	145	125-215	12	615.0003	32	4	16	35	25	4,00
630.0302	60-200	145	150-255	12	615.0003	32	4	16	35	25	4,40

Hydraulic quick release universal 3 arm puller

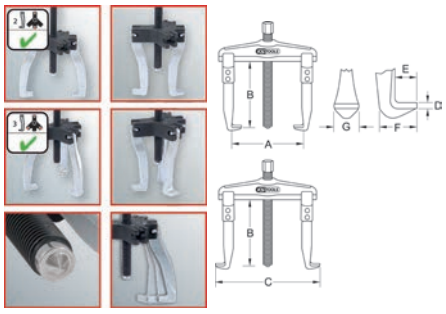
- Quick release function
- Uniform load distribution and centered tightening
- Through reversing the arms internal and external applications are possible
- Different leg variants available
- Includes hydraulic thrust spindle
- Excellent power transfer
- Special tool steel



	A mm	B mm	C mm	max t	Hydraulic spindle	mm	D mm	E mm	F mm	G mm	kg
630.1901	50-100	145	75-145	12	615.0002	32	4	16	35	25	4,00
630.1902	50-200	145	135-255	12	615.0002	32	4	16	35	25	4,40

Universal 2 + 3 arm puller

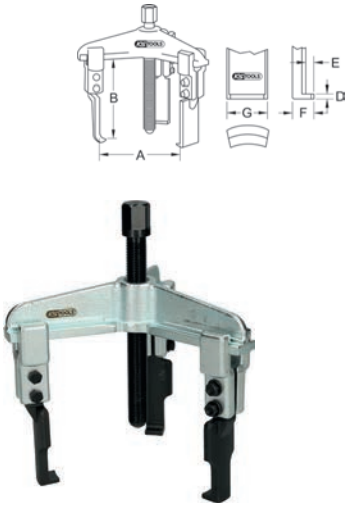
- Legs double ended usable
- Through reversing the arms internal and external applications are possible
- Reception star for 2 or 3 hooks
- Extremely robust spindle with inductively hardened thread
- Special tool steel



	A mm	B mm	C mm	max t	mm	mm	D mm	E mm	F mm	G mm	kg
640.4203	60	65	90	2,0	G3/8"x1,06px110	13	3	10	18	11	0,47
640.4204	90	100	130	5,0	G9/16"x2,0px190	17	4	15,5	29	17	1,60
640.4205	165	170	170	7,0	G3/4"x2,0px285	22	4	15,5	29	17	3,20

Universal 3 arm puller set with extremely narrow legs

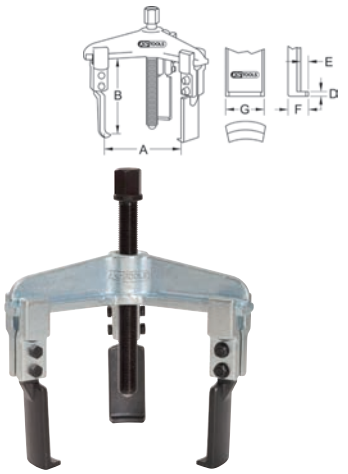
- Narrow execution
- extremely pointed hook foot
- Ideal for confined spaces
- Uniform load distribution and centered tightening
- Through reversing the arms internal and external applications are possible
- Wide range of arms and hydraulic spindles available
- Extremely robust spindle with inductively hardened thread
- Special tool steel



	A mm	B mm	C mm	max t	mm	mm	D mm	E mm	F mm	G mm	kg
630.0003	20-90	100	120-260	3	M14x1,5 x 130	17	8	14	14	14	1,30
630.0004	25-130	100	70-180	3	M14x1,5 x 130	17	8	14	14	14	1,50
630.0005	50-160	150	200-420	5	G1/2"x14 x 210	22	7,5	15	27	27	3,50
630.0006	60-200	150	110-270	5	G1/2"x14 x 210	22	7,5	15	27	27	4,00

Universal 3 arm puller set with narrow legs

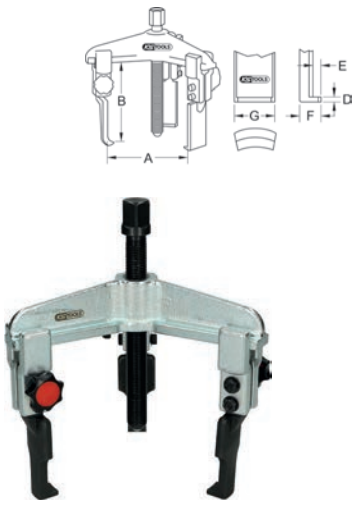
- Ideal for confined spaces
- Uniform load distribution and centered tightening
- Through reversing the arms internal and external applications are possible
- Hydraulic spindles available for thread G1/2"
- Extremely robust spindle with inductively hardened thread
- Special tool steel



	A mm	B mm	C mm	max t	mm	mm	D mm	E mm	F mm	G mm	kg
630.0001	20-90	100	120-260	4	M14x1,5 x 130	17	2	8	14	28	1,30
630.0002	25-130	100	160-340	4	M14x1,5 x 130	17	2	8	14	28	1,50
630.0901	20-90	100	35-115	5	M14x1,5 x 130	17	3,6	6	13	27	1,30
630.0902	25-130	100	40-145	5	M14x1,5 x 130	17	3,6	6	13	27	1,50
630.0903	50-160	150	65-175	6,5	G1/2"x14g x 210	22	5	8	17	40	3,50
630.0904	60-200	150	120-230	6,5	G1/2"x14g x 210	22	5	8	17	40	4,00

Quick adjustment universal 3 arm puller set with extremely narrow legs

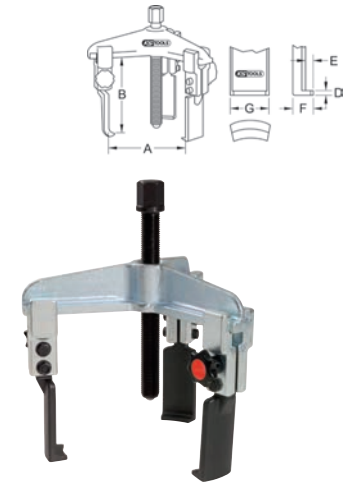
- Quick release function
- Narrow execution
- extremely pointed hook foot
- Ideal for confined spaces
- Uniform load distribution and centered tightening
- Through reversing the arms internal and external applications are possible
- Wide range of arms and hydraulic spindles available
- Extremely robust spindle with inductively hardened thread
- Special tool steel



	A mm	B mm	C mm	max t	mm	mm	D mm	E mm	F mm	G mm	kg
630.0007	20-90	100	70-130	3	M14x1,5 x 130	17	3,6	14	14	14	1,30
630.0008	25-130	100	140-340	3	M14x1,5 x 130	17	3,6	14	14	14	1,50
630.0009	50-160	150	200-420	5	G1/2"x14 x 210	22	5	15	27	27	3,50
630.0011	60-200	150	120-260	5	G1/2"x14 x 210	22	5	15	27	27	4,00

Quick release 3 arm puller set with narrow legs

- Quick release
- Ideal for confined spaces
- Uniform load distribution and centered tightening
- Through reversing the arms internal and external applications are possible
- Hydraulic spindles available for thread G1/2"
- Extremely robust spindle with inductively hardened thread
- Special tool steel



	A mm	B mm	C mm	max t	mm	mm	D mm	E mm	F mm	G mm	kg
630.1101	20-90	100	80-125	5	M14x1,5 x 130	17	3,6	6	13	27	1,30
630.1102	25-130	100	90-150	5	M14x1,5 x 130	17	3,6	6	13	27	1,50
630.1103	50-160	150	115-195	6,5	G1/2"x14g x 210	22	5	8	17	40	3,50
630.1104	60-200	150	115-215	6,5	G1/2"x14g x 210	22	5	8	17	40	4,00

UNIVERSAL 3 ARM PULLER SET

Universal puller set

- Legs double ended usable
- Reception star for 2 or 3 hooks
- Extremely robust spindle with inductively hardened thread
- Special tool steel
- In durable plastic storage case

			kg
700.1100	11 pcs	Universal puller set	4,39

consists of:

		kg
700.1120	Mechanical 2 and 3 leg puller, 4"	0,96
700.1130	Mechanical 2 and 3 leg puller, 6"	1,83
700.1140	Bearing splitter, for max. Ø 50 mm	1,15

Quick adjustment universal puller set

- Quick release function
- Ideal for confined spaces
- Through reversing the arms internal and external applications are possible
- Wide range of arms and hydraulic spindles available
- Extremely robust spindle with inductively hardened thread
- Special tool steel
- In durable plastic storage case

		A mm	B mm	mm	max t	kg
625.1701	7 pcs	20 - 90	100	M14 x 1,5	5,5	2,30

consists of:

		kg
620.1701	Quick release universal 2 arm puller, 20-90mm	1,00
630.1701	Quick release 3 arm puller, 20-90mm	1,30
980.1090	Special thread grease, tube	0,01

Quick adjustment universal puller set

- Quick release function
- Ideal for confined spaces
- Through reversing the arms internal and external applications are possible
- Wide range of arms and hydraulic spindles available
- Extremely robust spindle with inductively hardened thread
- Special tool steel
- In durable plastic storage case

		A mm	B mm	mm	max t	kg
625.1703	7 pcs	50 - 160	150	G1/2"x14Gg	5.5	6,50

consists of:

		kg
620.1703	Quick release universal 2 arm puller, 50-160mm	3,00
630.1703	Quick release 3 arm puller, 50-160mm	3,50
980.1090	Special thread grease, tube	0,01

Hydraulic universal 2 + 3 arm puller set

- Less risk of slipage due to automatically closing pulling arm
- 8 length positions possible
- Extremely robust spindle with inductively hardened thread
- Lower power usage
- Special tool steel
- In durable plastic storage case

		kg
700.1200	22 pcs	Hydraulic universal 2 + 3 arm puller set	16,40

consists of:

		g
700.1202	Puller legs, 4"	410
700.1203	Puller legs, 6"	600
700.1204	Puller legs, 8"	840
700.1205	Yoke f.2 legs, quickly modified	300
700.1206	Yoke f.3 legs, quickly modified	760
700.1207	Thrust bolt extension, 20 mm	50
700.1208	Thrust bolt extension, 35 mm	130
700.1209	Thrust bolt extension, 85 mm	320
700.1210	Pulling ring f.hydraulic thrust bolt	322
700.1220	Separator/puller tool,for max. Ø 105 mm	2540
700.1221	Yoke f.bearing separator tool	1480
700.1222	Extension f.bearing separator tool,185mm	1060
700.1223	Spigot f.bearing separator tool, 235mm	1110
700.1400-1	Hydraulic spindle 10 t, AG 1.1/2"x16G	1344

Universal 2 + 3 arm puller set

- Slim hooks
- Ideal for confined spaces
- Uniform load distribution and centered tightening
- Through reversing the arms internal and external applications are possible
- Wide range of arms and hydraulic spindles available
- Extremely robust spindle with inductively hardened thread
- Excellent power transfer
- Special tool steel
- In durable plastic storage case

			kg
700.1300	12 pcs	Universal 2 + 3 arm puller set	6,69

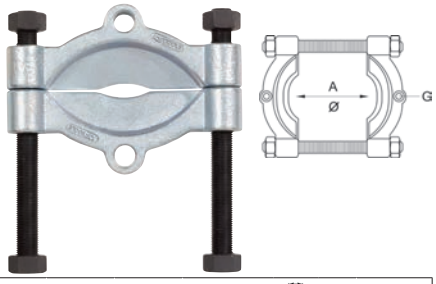
consists of:

		g
700.1311	Spindle, M14x1,5	180
700.1312	Two armed traverse	485
700.1313	Three armed traverse	675
700.1314	Draw-off arm, 100mm	250
700.1315	Draw-off arm, 210mm	530
700.1316	Draw-off arm, 260mm	640

SEPARATOR PULLER TOOL

Separator puller tool

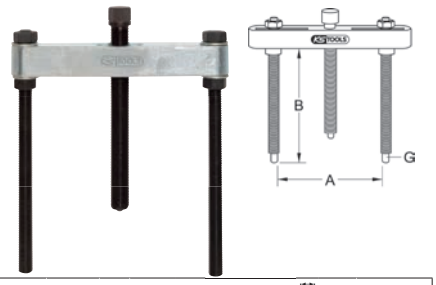
- To be used with separately available separator device
- For the removal of secure bearings and bushes
- Extremely robust spindle with inductively hardened thread
- Special tool steel



	A mm	G	mm	mm	kg
605.0501	5-60	M12	M10 x 120	17	0,40
605.0502	12-75	M12	M12 x 140	19	0,70
605.0503	22-115	M16	M16x1,5 x 180	24	1,90
605.0504	25-155	M20x1,5	M20x1,5 x 250	30	4,20
605.0505	30-220	M20x1,5	M24x1,5 x 410	36	12,00
605.0506	40-280	M24x1,5	M28x1,5 x 410	41	15,80

Yoke for bearing separator tool

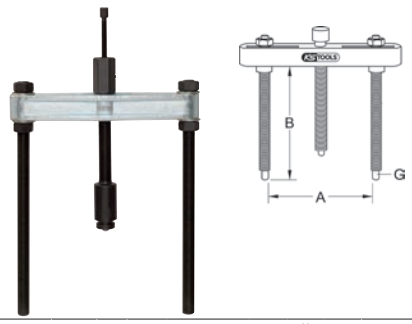
- For use with the separator
- The train bolts are screwed into the threads of the separator
- Extremely robust spindle with inductively hardened thread
- Hydraulic thrust spindle available
- Special tool steel



	A mm	B mm	G	max t	mm	mm	kg
605.0111	40-115	150	M12	2	M14x1,5 x 130	17	0,80
605.0112	45-140	150	M12	2,5	M14x1,5 x 130	17	1,10
605.0113	55-205	210	M16	4	G1/2"x14g x 210	22	2,70
605.0114	90-260	315	M20x1,5	5	G1/2"x14g x 210	22	5,20
605.0115	100-360	305	M20x1,5	7	G3/4"x14g x 280	27	8,80
605.0116	140-435	320	M24x1,5	13	G1"x11g x 370	36	16,70

Hydraulic thrust bolt with yoke for bearing separator tool

- For use with the separator
- The train bolts are screwed into the threads of the separator
- Includes hydraulic thrust spindle
- Excellent power transfer
- Special tool steel



	A mm	B mm	G	max t	mm	Hydraulic spindle	mm	kg
605.0301	55-205	135	M16	12	M16 x 280	615.0002	32	3,20
605.0302	90-260	240	M20x1,5	12	M20x1,5 x 370	615.0002	32	5,70
605.0303	100-360	230	M20x1,5	12	M20x1,5 x 370	615.0003	36	9,10
605.0304	140-435	230	M24x1,5	15	M24x1,5 x 460	615.0004	41	17,60

SEPARATOR PULLER TOOL SET

Separator set inclusive with yoke ø 5,0 - 60,0 mm

- For the removal of secure bearings and bushes
- Extremely robust spindle with inductively hardened thread
- Special tool steel
- In durable plastic storage case

			kg
605.0001	3 pcs	Separator set inclusive with yoke ø 5,0 - 60,0 mm	1,90

consists of:

		kg
605.0501	Bearing separator, 5-60mm	0,40
605.0111	Yoke for bearing separator tool, 40-115mm	0,80
605.0401	Extension for pull rod M12 x100mm	0,20

Separator set inclusive with yoke ø 12,0 - 75,0 mm

- For the removal of secure bearings and bushes
- Extremely robust spindle with inductively hardened thread
- Special tool steel
- In durable plastic storage case

			kg
605.0002	3 pcs	Separator set inclusive with yoke ø 12,0 - 75,0 mm	2,40

consists of:

		kg
605.0502	Bearing separator, 12-75mm	0,70
605.0112	Yoke for bearing separator tool, 45-140mm	1,10
605.0401	Extension for pull rod M12 x100mm	0,20

Separator set inclusive with yoke ø 22,0 - 115,0 mm

- For the removal of secure bearings and bushes
- Extremely robust spindle with inductively hardened thread
- Hydraulic thrust spindle available
- Special tool steel
- In durable plastic storage case

			kg
605.0003	3 pcs	Separator set inclusive with yoke ø 22,0 - 115,0 mm	6,10

consists of:

		kg
605.0503	Bearing separator, 22-115mm	1,90
605.0113	Yoke for bearing separator tool, 55-205mm	2,70
605.0401	Extension for pull rod M12 x100mm	0,20

Separator set inclusive with yoke ø Ø 25,0 - 155,0 mm

- For the removal of secure bearings and bushes
- Extremely robust spindle with inductively hardened thread
- Hydraulic thrust spindle available
- Special tool steel
- In durable plastic storage case

			kg
605.0004	3 pcs	Separator set inclusive with yoke ø Ø 25,0 - 155,0 mm	11,48

consists of:

		kg
605.0504	Bearing separator, 25-155mm	4,20
605.0114	Yoke for bearing separator tool, 90-260mm	5,20
605.0401	Extension for pull rod M12 x100mm	0,20

Separator set inclusive with yoke ø 30,0 - 220,0 mm

- For the removal of secure bearings and bushes
- Extremely robust spindle with inductively hardened thread
- Hydraulic thrust spindle available
- Special tool steel
- In durable steel storage case

			kg
605.0005	3 pcs	Separator set inclusive with yoke ø 30,0 - 220,0 mm	29,00

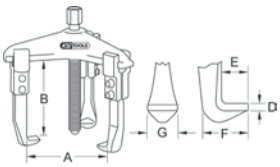
consists of:

		kg
605.0505	Bearing separator, 30-220mm	12,00
605.0115	Yoke for bearing separator tool, 100-360mm	8,80
605.0401	Extension for pull rod M12 x100mm	0,20

UNIVERSAL 3 ARM PULLER, HEAVY EXECUTION

Universal 3 arm puller

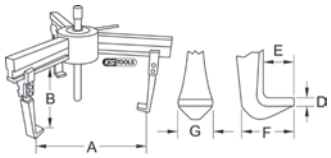
- extremely robust design
- Uniform load distribution and centered tightening
- Through reversing the arms internal and external applications are possible
- Wide range of arms and hydraulic spindles available
- Extremely robust spindle with inductively hardened thread
- Special tool steel



	A mm	B mm	C mm	max t	mm	mm	D mm	E mm	F mm	G mm	kg
630.0012	100-380	200	210-410	15	G1"x11 x 310	36	5	25	54	35	21,00
630.0013	120-520	200	215-450	15	G1"x11 x 310	36	5	25	54	35	25,00
630.0014	120-650	200	215-500	15	G1"x11 x 310	36	5	25	54	35	27,00

Universal 3 arm puller, heavy execution

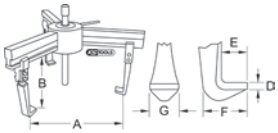
- extremely robust design for extreme loads
- Uniform load distribution and centered tightening
- Through reversing the arms internal and external applications are possible
- Different leg variants available
- Includes hydraulic thrust spindle
- Lower power usage
- Special tool steel



	A mm	B mm	C mm	max t	mm	mm	D mm	E mm	F mm	G mm	kg
630.0023	100-380	185	240-410	15	M14x1,5 x 100	17	5	25	54	35	22,00
630.0024	120-520	185	250-450	15	M14x1,5 x 100	17	5	25	54	35	26,30
630.0025	120-650	185	250-500	15	M14x1,5 x 100	17	5	25	54	35	28,00

Universal 3 arm puller

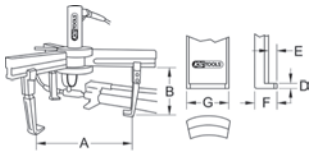
- Uniform load distribution and centered tightening
- Through reversing the arms internal and external applications are possible
- Draw off arms radial revolving
- Wide range of arms and hydraulic spindles available
- Extremely robust spindle with inductively hardened thread
- Special tool steel



	A mm	B mm	C mm	max t	mm	mm	D mm	E mm	F mm	G mm	kg
630.2301	150-700	200	250-650	15	G1"x11g x 370	36	10	33	55	50	42,50

Universal 3 arm puller for using with hydraulic cylinder

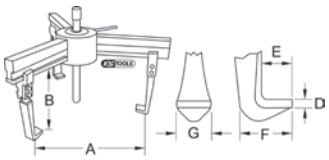
- Consists of traverse and legs
- Traverse arm radial revolving and interchangeable
- Uniform load distribution and centered tightening
- Without hydraulic compression spindle / without hydraulic cylinder
- Without hydraulic pump
- Special tool steel



	A mm	B mm	mm	max t	D mm	E mm	F mm	G mm	kg
640.2315	150-700	200	M68x2	15	10	33	55	50	38,00
640.2317	150-700	200	G1"x11g	17	10	33	55	50	40,00

Universal 3 arm puller, heavy execution

- extremely robust design for extreme loads
- Uniform load distribution and centered tightening
- Through reversing the arms internal and external applications are possible
- Different leg variants available
- Includes hydraulic thrust spindle
- Lower power usage
- Special tool steel

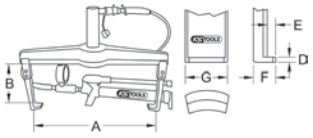


	A mm	B mm	C mm	max t	mm	mm	D mm	E mm	F mm	G mm	kg
630.0026	150-700	275	500-720	15	M14x1,5 x 100	17	10	33	55	50	47,60

HYDRAULIC PULLERS AND PUMP

Universal 2 arm puller for using with hydraulic cylinder

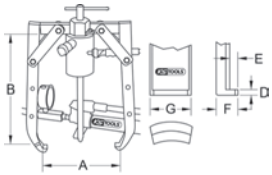
- Consists of traverse and legs
- Through reversing the arms internal and external applications are possible
- Without hydraulic compression spindle / without hydraulic cylinder
- Without hydraulic pump
- Special tool steel

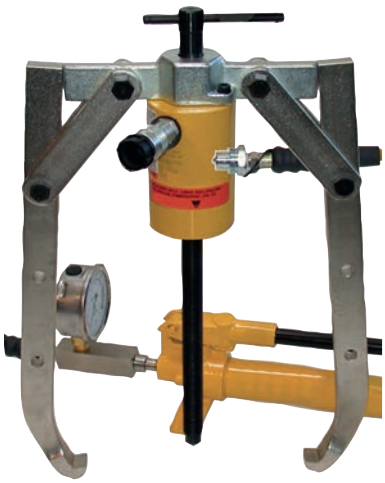


	A mm	B mm	max t	D mm	E mm	F mm	G mm	kg
640.0210	640	225	10	10	33	55	50	20,00
640.0215	640	225	15	10	33	55	50	20,00
640.0217	640	225	17	10	33	55	50	21,50

Universal 2 arm puller for using with hydraulic cylinder

- Consists of traverse and legs
- Through reversing the arms internal and external applications are possible
- Without hydraulic compression spindle / without hydraulic cylinder
- Without hydraulic pump
- Special tool steel

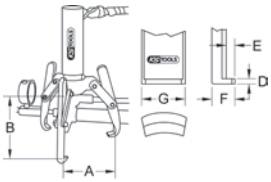




	A mm	B mm	max t	D mm	E mm	F mm	G mm	kg
640.0220	420	290	20	17	16	32	32	11,50
640.0230	700	400	30	24	23	48	40	20,00
640.0250	1000	700	50	35	42	87	50	50,00

Universal 3 arm puller for using with hydraulic cylinder

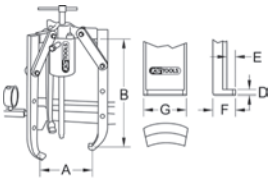
- Consists of traverse and legs
- Legs are adjustable in the working depth
- Uniform load distribution and centered tightening
- Without hydraulic compression spindle / without hydraulic cylinder
- Without hydraulic pump
- Special tool steel



	A mm	B mm	mm	max t	D mm	E mm	F mm	G mm	kg
640.0310	350	250	UNC2.1/4" x 14	10	5	25	48	30	9,50
640.0315	350	250	M68 x 2	15	5	25	48	30	7,50
640.0317	350	250	G 1"x11g	17	5	25	48	30	8,50

Universal 3 arm puller for using with hydraulic cylinder

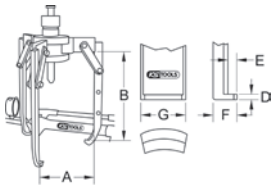
- Consists of traverse and legs
- Legs are adjustable in the working depth
- Uniform load distribution and centered tightening
- Without hydraulic compression spindle / without hydraulic cylinder
- Without hydraulic pump
- Special tool steel



	A mm	B mm	max t	D mm	E mm	F mm	G mm	kg
640.0320	420	290	20	17	16	32	32	17,00
640.0330	700	400	30	24	23	48	40	30,00
640.0350	1000	700	50	35	42	87	50	70,00

Hydraulic universal 3 arm puller

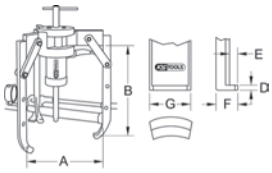
- Consists of traverse and legs
- Legs are adjustable in the working depth
- Traverse arm radial revolving and interchangeable
- Uniform load distribution and centered tightening
- Without hydraulic compression spindle / without hydraulic cylinder
- Without hydraulic pump
- Special tool steel



	A mm	B mm	mm	max t	D mm	E mm	F mm	G mm	kg
640.2415	500	440	M68x2	15	17	16	32	32	22,00
640.2417	500	440	G1"x11g	17	17	16	32	32	24,00

Universal 3 arm puller for using with hydraulic cylinder

- Consists of traverse and legs
- Traverse arm radial revolving and interchangeable
- Legs are adjustable in the working depth
- Uniform load distribution and centered tightening
- Without hydraulic compression spindle / without hydraulic cylinder
- Without hydraulic pump
- Special tool steel

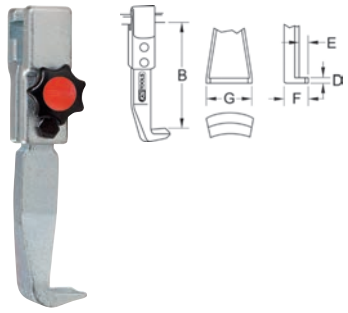


	A mm	B mm	max t	D mm	E mm	F mm	G mm	kg
640.2420	500	270	20	17	16	32	32	27,00
640.2430	750	310	30	24	23	48	40	26,00
640.2450	1000	660	50	35	42	87	50	106,00

ACCESSORIES

Quick adjustment puller legs

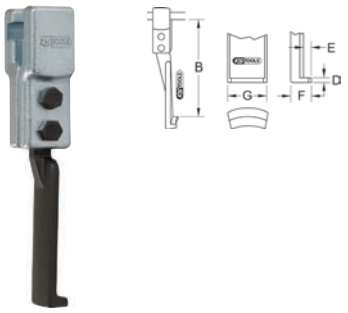
- Quick release function
- For 2 arm and 3 arm pullers
- Special tool steel



	B mm	D mm	E mm	F mm	G mm	g
615.1101	100	3	13	25	20	200
615.1102	150	4	16	35	25	700
615.1103	200	3	13	25	20	500

Puller legs, extremely narrow design

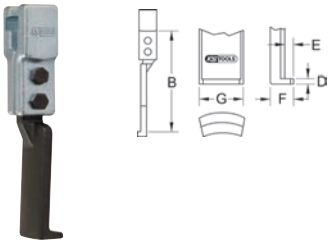
- Ideal for confined spaces
- For 2 arm and 3 arm pullers
- Special tool steel



	B mm	D mm	E mm	F mm	G mm	g
615.1011	100	3,6	8,0	14	14	250
615.1012	120	3,6	8,0	14	14	300
615.1013	200	3,6	8,0	14	14	500
615.1014	250	3,6	8,0	14	14	600
615.1015	150	5,0	7,5	15	27	600
615.1016	220	5,0	7,5	15	27	650
615.1017	300	5,0	7,5	15	27	1100

Puller legs, narrow design

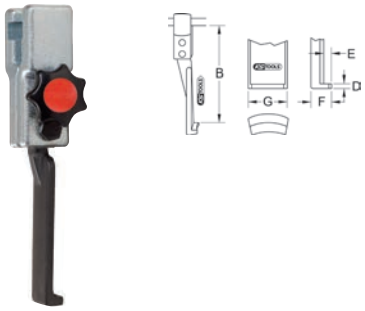
- Ideal for confined spaces
- For 2 arm and 3 arm pullers
- Special tool steel



	B mm	D mm	E mm	F mm	G mm	g
615.0901	100	3,6	6	13	27	200
615.1031	120	3,6	8	14	28	280
615.0902	200	3,6	6	13	27	500
615.0903	250	3,6	6	13	27	600
615.0904	100	2	6	13	27	200
615.0905	200	2	6	13	27	500
615.0906	250	2	6	13	27	1100
615.0907	150	5	8	17	40	600
615.0908	220	5	8	17	40	800
615.0909	300	5	8	17	40	1800

Quick adjustment puller legs, extremely narrow design

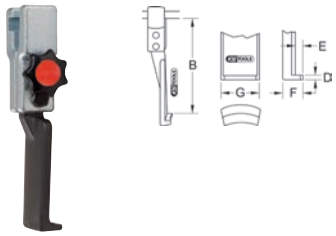
- Quick release function
- Ideal for confined spaces
- For 2 arm and 3 arm pullers
- Special tool steel



	B mm	D mm	E mm	F mm	G mm	g
615.1021	100	3,6	8	14	14	250
615.1022	120	3,6	8	14	14	300
615.1023	200	3,6	8	14	14	500
615.1024	250	3,6	8	14	14	600
615.1025	150	5,0	7,5	15	27	600
615.1026	220	5,0	7,5	15	27	650
615.1027	300	5,0	7,5	15	27	1100

Quick adjustment puller legs, narrow design

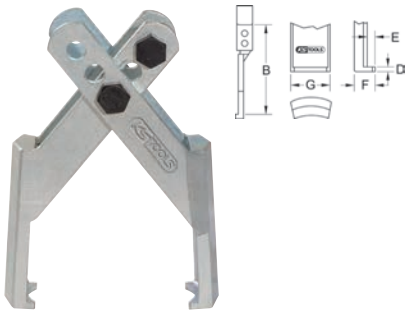
- Quick release function
- Ideal for confined spaces
- For 2 arm and 3 arm pullers
- Special tool steel



	B mm	D mm	E mm	F mm	G mm	g
615.1001	100	3,6	6	13	27	250
615.1041	120	3,6	8	14	28	300
615.1002	200	3,6	6	13	27	500
615.1003	250	3,6	6	13	27	600
615.1004	100	2,0	6	13	27	250
615.1005	200	2,0	6	13	27	500
615.1006	250	2,0	6	13	27	600
615.1007	150	5,0	8	17	40	650
615.1008	220	5,0	8	17	40	900
615.1009	300	5,0	8	17	40	1100

Pair of puller legs

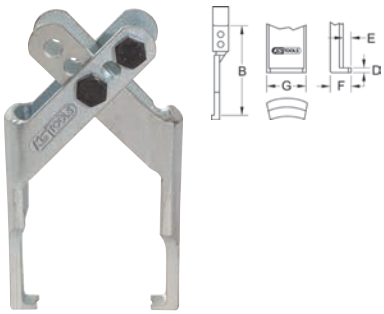
- Legs are adjustable in the working depth
- for 2-arm pullers
- Special tool steel



	For pullers	B mm	D mm	E mm	F mm	G mm	g
615.5201	620.5201	70-85	2,5	4,5	8,5	23	180
615.5202	620.5202	85-120	3,5	5	10	31	450
615.5203	620.5203	125-155	3,5	5	10	31	550

Pair of puller legs, narrow design

- Legs are adjustable in the working depth
- for 2-arm pullers
- Ideal for confined spaces
- Special tool steel



	For pullers	B mm	D mm	E mm	F mm	G mm	g
615.5301	620.5301	70-85	2,5	4,5	8,5	11	150
615.5302	620.5302	85-120	3,5	5	11	12	500

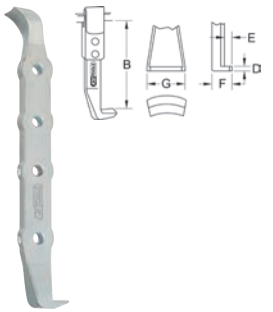
Puller legs with clamping yoke

- For puller legs with quick adjustment
- Clamping yoke compresses the legs firmly
- Prevents slipping
- Special tool steel

	For pullers	B mm	D mm	E mm	F mm	G mm	g
615.5401	620.5401	90	3	12	26	24	260
615.5402	620.5402	110	3	14	25	24	320
615.5403	620.5403	150	3	14	25	24	420

Puller legs with clamping yoke

- For 2 arm pullers with quick adjustment
- Legs are adjustable in the working depth
- Legs double ended usable
- Clamping yoke compresses the legs firmly
- Extremely robust spindle with inductively hardened thread
- Special tool steel



	For pullers	B mm	D mm	E mm	F mm	G mm	g
615.5501	620.5501	170	3	12	25	24	530
615.5502	620.5502	270	3	14	25	24	800
615.5503	620.5503	330	3	14	25	24	850

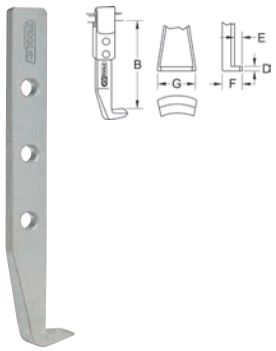
Puller legs double ended usable

- Legs double ended usable
- For 2 arm and 3 arm pullers
- Special tool steel

	For pullers	B mm	D mm	E mm	F mm	G mm	g
615.3001	620.3001+630.3001	85	2	9	21	12	100
615.3002	620.3002+630.3002	130	4	11	25	21	320

Puller legs

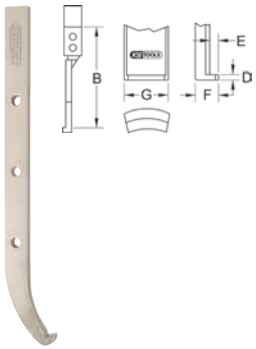
- Legs are adjustable in the working depth
- For 2 arm and 3 arm pullers
- Special tool steel



	For pullers	B mm	D mm	E mm	F mm	G mm	g
615.3601	620.3601+ 630.3601	85	3	14	25	18	100
615.3602	620.3602+ 630.3602	150	4	20	36	25	260
615.3603	620.3603+ 630.3603	220	5	25	48	30	650
615.3604	620.3604+ 630.3604	250	5	25	48	30	1200
615.3605	620.3605+ 630.3605	350	5	25	48	30	1600
615.3606	620.3606+ 630.3606	400	5	25	48	30	1800
615.3607	620.3607+ 630.3607	450	5	25	48	30	2000
615.3608	620.3608+ 630.3608	500	5	25	48	30	2200
615.3609	620.3609+ 630.3609	650	5	25	48	30	2800
615.3610	620.3610+ 630.3610	1000	5	25	48	30	4200

Puller legs

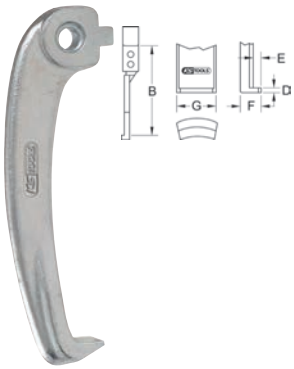
- For 2 arm and 3 arm hydraulic pullers
- Special tool steel



	For pullers	B mm	D mm	E mm	F mm	G mm	kg
645.0251	640.0210-17 +640.2315-17	225	10	33	55	50	2,10
645.0252	640.0210-17 +640.2315-17	300	10	33	55	50	3,00
645.0253	640.0210-17 +640.2315-17	400	10	33	55	50	3,70
645.0254	640.0210-17 +640.2315-17	500	10	33	55	50	4,40
645.0261	640.0220	290	17	16	32	32	3,30
645.0262	640.0230	400	24	23	48	40	6,50
645.0263	640.0250	700	35	42	87	50	17,00
645.0351	640.0310-17	250	5	25	48	30	1,80
645.0352	640.0310-17	350	5	25	48	30	1,90
645.0353	640.0310-17	400	5	25	48	30	2,00
645.0354	640.0310-17	500	5	25	48	30	2,20
645.0361	640.0320	290	17	16	32	32	3,30
645.0362	640.0330	400	24	23	48	40	6,50
645.0363	640.0350	700	35	42	87	50	17,00
645.2461	640.2415-17	440	17	16	32	32	3,30
645.2462	640.2420	270	17	16	32	32	3,30
645.2463	640.2430	310	24	23	48	40	6,50
645.2464	640.2450	660	35	42	87	50	17,00

Puller legs, forged ground steel

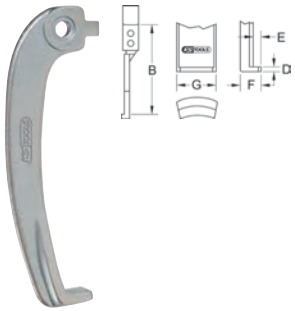
- For 2 arm and 3 arm basic universal puller
- Special tool steel



	For pullers	B mm	D mm	E mm	F mm	G mm	g
615.4101	620.4101+630.4101	45	2	9	18	10	40
615.4102	620.4102+630.4102	65	2	9	18	10	50
615.4103	620.4103+630.4103	80	2,3	12	25	13	100

Puller legs, forged ground steel

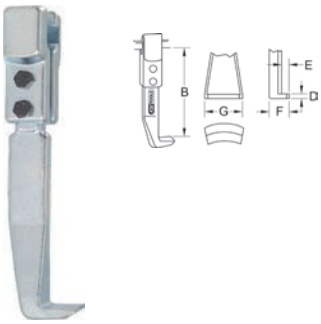
- For 2 arm and 3 arm basic universal puller
- Special tool steel



	For pullers	B mm	D mm	E mm	F mm	G mm	g
615.4301	620.4301+630.4301	80	4	12	26	13	130
615.4302	620.4302+630.4302	120	5	14	30	16	210
615.4303	620.4303+630.4303	160	6	18	35	20	350
615.4304	620.4304+630.4304	200	7	22	40	24	600

Puller legs

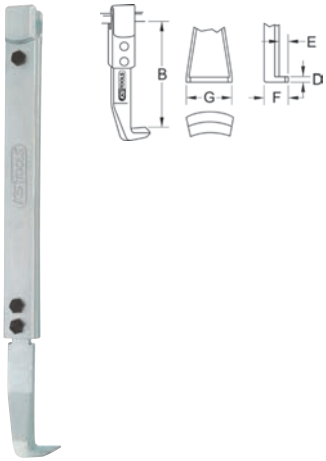
- For 2 arm and 3 arm pullers
- Special tool steel



	B mm	max t	D mm	E mm	F mm	G mm	g
615.0101	100	4,5	3	13	25	20	250
615.0102	150	6,5	4	16	35	25	650
615.0103	200	11,0	5	25	54	35	1650
615.0104	225	11,0	10	33	50	55	2150

Puller legs, extra long design

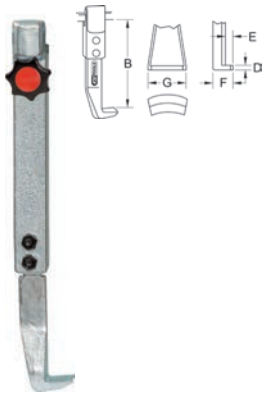
- For 2 arm and 3 arm pullers
- Special tool steel



	B mm	D mm	E mm	F mm	G mm	kg
615.0501	200	3	13	25	20	0,50
615.0502	300	4	16	35	25	1,10
615.0503	300	5	25	54	35	2,50
615.0504	400	5	25	54	35	3,20
615.0505	500	5	25	54	35	3,90
615.0506	300	10	33	55	50	3,00
615.0507	400	10	33	55	50	3,70
615.0508	500	10	33	55	50	4,40

Quick adjustment puller legs, long design

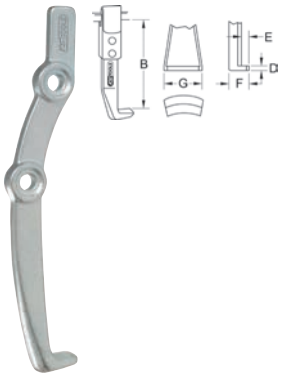
- Quick release function
- For 2 arm and 3 arm pullers
- Special tool steel



	B mm	D mm	E mm	F mm	G mm	kg
615.1051	225	5,0	25,0	54	35	0,52
615.1052	325	5,0	25,0	54	35	1,25
615.1053	425	5,0	25,0	54	35	3,25

Puller legs

- Legs are adjustable in the working depth
- For 2 arm and 3 arm pullers
- Special tool steel



	For pullers	B mm	D mm	E mm	F mm	G mm	g
615.3401	620.3401+630.3401	130	2	11	23	16	150
615.3402	620.3402+630.3402	200	4,5	16	33	20	400

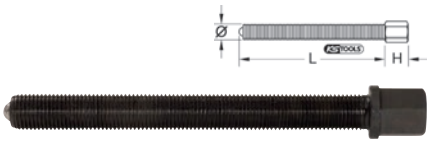
Special thread grease for puller and pusher spindles and nuts subjected high loads

- Lubricant for components subjected to high static loads, e.g. threaded spindles
- Prevents excessive wear and seizing
- Irregularities in the surface to be protected are completely filled
- Minimises the friction thanks to the closed surface
- Effective protection against corrosion
- Increases the service life of threaded spindles
- Ensures reliable function even at high temperatures up to max. 1200 °C

		g
980.1085	Special thread grease, gun	22
980.1090	Special thread grease, tube	5

Spindle

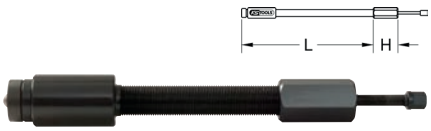
- Extremely robust spindle with inductively hardened thread
- Special tool steel



	mm	L mm	H mm	Ø mm	mm	g
610.1401	12	150	15	10	M10	100
610.1402	14	190	20	12	M12	200
610.1701	17	60	21	14	M14 x 1,5	100
610.1702	17	130	21	14	M14 x 1,5	200
610.1703	17	200	21	14	M14 x 1,5	300
610.1704	17	250	21	14	M14 x 1,5	550
610.1705	17	60	20	16	M16 x 1,5	100
610.1706	17	70	20	16	M16 x 1,5	100
610.1707	17	90	20	16	M16 x 1,5	200
610.1901	19	70	20	18	M18 x 1,5	200
610.1902	19	130	20	18	M18 x 1,5	300
610.1903	19	170	20	18	M18 x 1,5	400
610.1904	19	240	20	18	M18 x 1,5	500
610.2201	22	110	23	21	G1/2"x14g	300
610.2202	22	160	23	21	G1/2"x14g	400
610.2203	22	175	23	21	G1/2"x14g	500
610.2204	22	210	23	21	G1/2"x14g	600
610.2205	22	235	23	21	G1/2"x14g	700
610.2206	22	270	23	21	G1/2"x14g	800
610.2701	27	180	35	26	G3/4"x14g	1000
610.2702	27	280	35	26	G3/4"x14g	1300
610.2703	27	360	35	26	G3/4"x14g	1700
610.3601	36	310	45	33	G1"x11g	2300
610.3602	36	360	45	33	G1"x11g	2650
610.3603	36	455	45	33	G1"x11g	3100
700.5612	21	113	27	16	M16 x 130	188

Hydraulic compression spindle

- Maximum pressure with little effort
- Special tool steel



	L mm	H mm	max t	Ø Body mm	Body mm	Pressure spindle mm	mm	kg
615.0001	260	23	12	41	UN-1.1/2"x16	M11x85	17	1,60
615.0002	410	55	12	32	G1/2"x14	M10x90	13	1,10
615.0003	410	55	12	36	G3/4"x14	M10x90	13	1,60
615.0004	460	80	15	41	G1"x11	M11x-1,5x100	17	3,50

Spare traverse

- For hydraulic 2 arm puller
- Special tool steel

	max t	For pullers	kg
645.0210	10	640.0210	16,00
645.0215	15	640.0215	15,00
645.0217	17	640.0217	16,00
645.0220	20	640.0220	5,00
645.0230	30	640.0230	8,00
645.0250	50	640.0250	16,00

Spare traverse

- For hydraulic 3 arm puller
- Special tool steel

	max t	For pullers	kg
645.0310	10	640.0310	4,00
645.0315	15	640.0315	3,50
645.0317	17	640.0317	4,50
645.0320	20	640.0320	7,00
645.0330	30	640.0330	11,50
645.0350	50	640.0350	20,00
645.2315	15	640.2315	10,00
645.2317	17	640.2317	12,50
645.2415	15	640.2415	10,00
645.2417	17	640.2417	12,50
645.2420	20	640.2420	15,00
645.2430	30	640.2430	27,00
645.2450	50	640.2450	27,00

Traverse arm for hydraulic gear puller

- For hydraulic 3 arm puller
- Special tool steel

	For pullers	kg
645.2316	640.2315-17	7,00
645.2416	640.2415-17	4,00
645.2421	640.2420	4,00
645.2431	640.2430	5,00
645.2451	640.2450	10,00

Universal clamping yoke

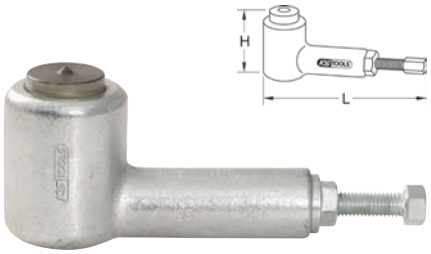
- For universal 2 arm puller
- Clamping yoke compresses the legs firmly
- Prevents slipping
- Special tool steel

	A mm	g
615.5101	10-130	800

CYLINDER

Hydraulic press

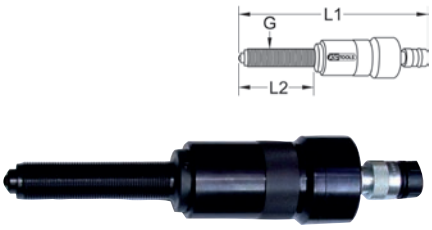
- For mechanical pullers
- Power increase with the normal pressure spindle
- Maximum pressure with little effort
- Special tool steel



	L mm	H mm	max t	Hydraulic lift mm	mm	kg
640.0160	150,0	75,0	8	8	M14x1,5 x 60	0,80
640.0165	180,0	90,0	15	12	M14x1,5 x 85	1,80

Spindle hydraulic cylinder

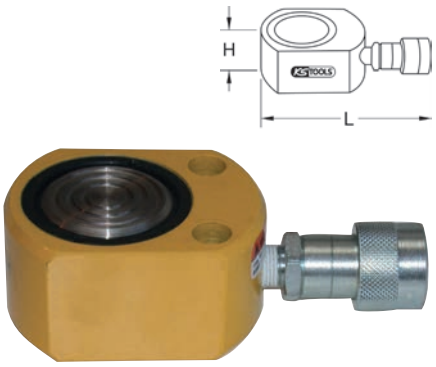
- Simply working with spring withdrawal
- Necessary minimal oil volume 120 cm³ = 0,12 l
- Maximum pressure with little effort
- Special tool steel



		L1 mm	L2 mm	Stroke mm	G	max t	kg
640.0130	3/8" - 18 NPT	403	150,0	156,0	G1"x11g	17	4,50

Flat hydraulic cylinder

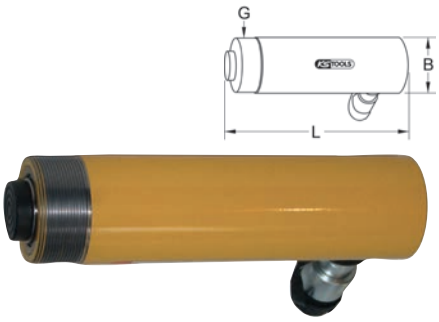
- Simply working with spring withdrawal
- Maximum pressure with little effort
- Special tool steel
- Locating bore 10t = dimension 36.6mm x Ø 7.1
- Locating bore 20t = dimension 49,3mm x Ø10,0



		L mm	H mm	Stroke mm	Minimal oil volume cm³/l	max t	kg
640.0140	3/8" - 18 NPT	140	42	12,0	18/0,018	10	1,60
640.0150	3/8" - 18 NPT	170	51	11,0	32/0,032	20	2,80

Single screw hydraulic cylinder

- Simply working with spring withdrawal
- Interchangeable pressure piece
- Maximum pressure with little effort
- Special tool steel

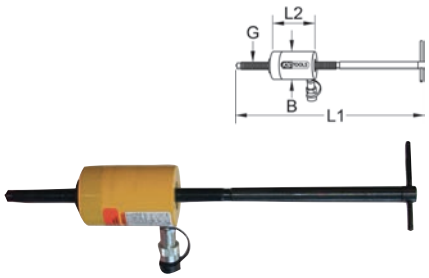


		L mm	B mm	Stroke mm	G	max t	kg
640.0110	3/8" - 18 NPT	403	247	156,0	UNC2.1/4x14	10	4,00
640.0120	3/8" - 18 NPT	423	271	152,0	M68x2	15	7,00

Hollow piston hydraulic cylinder with spindle

- Simply working with spring withdrawal
- Nickel plated centre tube
- Maximum pressure with little effort
- Special tool steel

Mounting thread at cylinder: 1.) 2 threaded hole with cylinder base (tube side) 2.) external thread: 20t=3-7/8"x12G30t=4-1/2"x12G50t=6-1/4"x12G



		L1 mm	L2 mm	B mm	Stroke mm	G	max t	kg
640.0170	3/8" - 18 NPT	670	162,0	98	49,0	UNC1"-8	20	10,60
640.0180	3/8" - 18 NPT	790	178,0	114	64,0	UNC1.1/4"-7	30	15,20
640.0190	3/8" - 18 NPT	975	247,0	159	76,0	UNC1.5/8"-5.1/2"	50	40,50

HYDRAULIC HAND PUMP

Hydraulic hand pump

- Single stage
- Reverse valve for advance and return stroke
- Safety valve for overload protection
- Includes pressure tube 1.8 meters
- Usable tank volume 2081cm³ = 2.081l

		L mm	B mm	H mm	Flow rate per hub cm³	kg
640.0010	3/8" - 18 NPT	585	133	119	2,62	9,00

Pneumatic hydraulic pump

- Pneumatic working
- For simply agent press cylinders
- Safety valve for overload protection
- Includes pressure tube 1.8 meters
- Usable tank volume 2081cm³ = 2.081l
- Operating pressure max. 700 bar
- Output per stroke:
  0.8 l/min up to 200 bar
  0.1 l/min up to 700 bar

		L mm	B mm	H mm	kg
640.0020	3/8" - 18 NPT	255	130	200	11,00

Electric hydraulic pump

- Two stepped for simply agent press cylinders
- Safety valve for overload protection
- Usable tank volume 1900 cm³ = 1.9l
- Includes pressure tube 1.8 meters
- Motor specification 0.37kW - 220/230 V - 50/60 hertz, single phase (3.2 amps)

1. Step: max. 13 bar
2. Step: max. 700 bar

- Output per stroke:

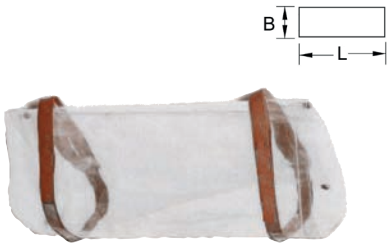
1. Step: 3.31 l/min
2. Step: 0.32 l/ min

		L mm	B mm	H mm	kg
640.0030	3/8" - 18 NPT	244	244	362	14,00

SAFETY COVERING FOIL

Safety covering foil

- Two ply welded
- High tearing resistance
- Variable adjustment
- UV resistant
- Temperature range of -25°C to +50°C

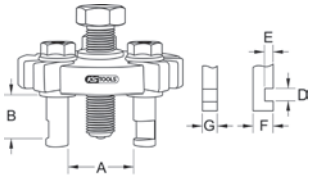


	B mm	L mm	max t	kg
610.0100	510,0	915,0	18	3,90

UNIVERSAL BELT PULLER

Universal belt pulley puller 3 arm

- For the damage free drawing off of pulley belts
- Universal suitable for several diameters and different hole divisions
- Less space requirement through compact method of building
- Suited for work on engines in the vehicle or removed
- Special tool steel



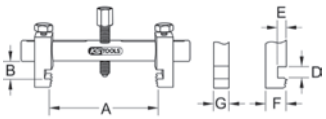
	A mm	B mm	max t	mm	mm	D mm	E mm	F mm	g
150.3130	90	30	2,5	M16x1,5 x 75	24	10	6	11	900

accessories:

		g
150.3133	Spare traverse for 150.3130	300

Universal belt pulley puller 2 arm

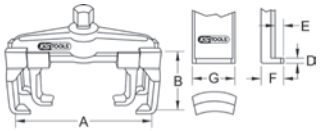
- For grooved belt pulleys
- Draw off arms with locking device
- Clamping yoke compresses the legs firmly
- Prevents slipping
- Less space requirement through compact method of building
- Suited for work on engines in the vehicle or removed
- Special tool steel



	A mm	B mm	max t	mm	mm	D mm	E mm	F mm	g
150.3170	40-165	30	2,5	M12 x 75	17	10	9	18	1600

Universal camshaft solid wheel puller 2 arm

- Four special hooks for 5 and 6 armed spoked wheels
- Suitable for many VAG models
- Extremely robust spindle with inductively hardened thread
- Special tool steel

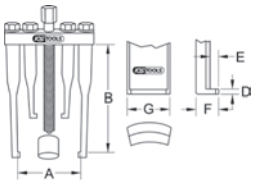


	A mm	B mm	max t	mm	mm	D mm	E mm	F mm	G mm	g
670.0211	130	44	2,5	M14x1,5 x 55	17	4	9	20	15	900

STEERING WHEEL PULLER

Universal steering wheel puller 2 arm for passenger cars

- Suitable for quick, clean and damage-free removal of the steering wheel
- Short and long hooks as well as pressure piece for spindle
- Suitable for universal use due to longitudinal grooves in the puller bridge
- Extremely robust spindle with inductively hardened thread
- Special tool steel

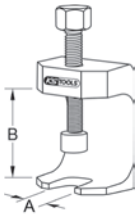


	A mm	B mm	max t	mm	mm	D mm	E mm	F mm	G mm	g
670.0201	90	135	2,5	M14x1,5 x 130	17	5	3,5	11	7,5	900

WINDSCREEN WIPER ARM PULLER

Universal windscreen wiper arm puller with fork

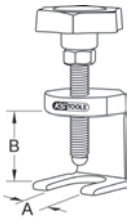
- With pulling yoke
- Ideally suited to the protective removal of windscreen wiper arms
- Pulling spindle with brass cap for damage-free support on the washer arm shaft
- Extremely robust spindle with inductively hardened thread
- Spindle guidance is carried out in a moving sleeve
- Prevents damage to the bodywork and the windscreen wiper arm
- With narrow socket for tight spaces
- Special tool steel



	A mm	B mm	mm	g
700.1198	23,5	48	8	240

Universal windscreen wiper arm puller with pulling yoke

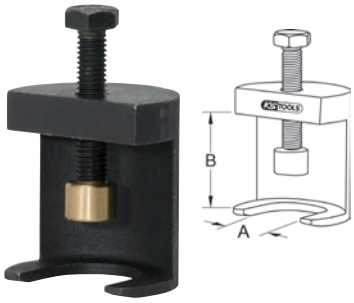
- With pulling yoke
- Ideally suited to the protective removal of windscreen wiper arms
- Pulling spindle for damage-free support to the rear wiper blades
- Extremely robust spindle with inductively hardened thread
- Prevents damage to the bodywork and the windscreen wiper arm
- With adjustment dial for manual operation
- With narrow socket for tight spaces
- Special tool steel



	A mm	B mm	mm	mm	g
700.1193	16	28	M8 x 45	11	140

Universal windscreen wiper arm puller with pulling yoke

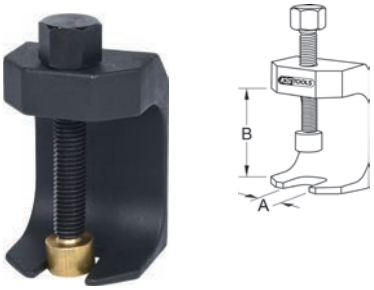
- Heavy execution
- With pulling yoke
- Ideally suited to the protective removal of windscreen wiper arms
- Spindle end with brass cap to prevent damage to the wind-screen wiper arm
- Extremely robust spindle with inductively hardened thread
- Spindle guidance is carried out in a moving sleeve
- Prevents damage to the bodywork and the windscreen wiper arm
- With narrow socket for tight spaces
- Special tool steel



	A mm	B mm	mm	mm	g
700.1191	26	48	M8 x 75	13	450

Universal windscreen wiper arm puller with pulling yoke

- Heavy execution
- With pulling yoke
- Ideally suited to the protective removal of windscreen wiper arms
- Spindle end with brass cap to prevent damage to the wind-screen wiper arm
- Extremely robust spindle with inductively hardened thread
- Spindle guidance is carried out in a moving sleeve
- Prevents damage to the bodywork and the windscreen wiper arm
- With narrow socket for tight spaces
- Special tool steel



	A mm	B mm	mm	mm	g
700.1192	16	41	M10 x 80	17	510

Universal windscreen wiper arm puller 2 arm

- 2-jaw
- Ideally suited to the protective removal of windscreen wiper arms
- Hollow puller spindle for damage-free support on the wiper arm shaft with washer nozzle
- Extremely robust spindle with inductively hardened thread
- Prevents damage to the bodywork and the windscreen wiper arm
- Internal square drive adaptor to DIN 3120 / ISO 1174
- Special tool steel

Application range: especially for **VAG** rear windscreen wiper with integrated washer nozzle

	A mm	B mm	mm	mm	D mm	E mm	F mm	G mm	kg
700.1185	10-60	34	M12x1,25 x 34	17	3	5	14	15	1,00

Universal windscreen wiper arm puller set

- Ideally suited to disassembly of windscreen wiper arms
- Includes impact hammer puller
- Universally fitting puller set suitable for approx. 450 wind-screen wipers, 300 vehicles and 30 car brands
- Self-stiffening or recessed built-in washer arms are quickly disassembled with this set
- Washers with washer nozzle in the centre of the wiper arm can be worked on either with the impact hammer or with the hollow spindle attachment
- Alternatively can be used mechanically or with an impact spindle
- Prevents damage to the bodywork and the windscreen wiper arm
- Special tool steel
- In durable plastic storage case

			kg
700.1240	13 pcs	Universal windscreen wiper arm puller set	3,81

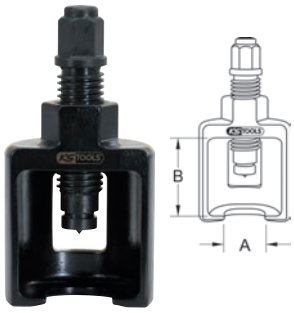
consists of:

		g
700.1231	Slide hammer with fork spanner	1130
700.1232	Spindle, 95mm, M12	170
700.1233	Fork #1, opening 22mm, H=50mm	110
700.1234	Fork #2, opening 25mm, H=50mm	140
700.1235	Fork #3, opening 16mm, H=60mm	150
700.1236	Fork #4, opening 25mm, H=41mm	110
700.1237	Fork #5, opening 30mm, H=50mm	150
700.1238	Fork #6, opening 20mm, H=50mm	100
700.1239	Fork #7, opening 17mm, H=55mm	100
700.1241	Fork #8, opening 16mm, H=80mm	170
700.1242	Universal 2 arm wiper arm puller set, 6 pcs	690
700.1243	Spindel extension for 700.1232 and 700.1242	20
700.1244	Hollow spindle adaptor for 700.1232 and 700.1242	20

BALL JOINT PULLERS

Vibro-Impact Universal Ball Joint Puller Bell 30 x 58 mm

- Pressure pieces in the spindle rotating mouted
- Trapezoidal spindle
- High release force due to rotary shock pulse with impact wrench
- Impact screws create pressure and vibration at the same time, through which the secure ball joint connections and quickly and safely removed
- Less space required
- Cast forged execution
- With inspection panel
- Special tool steel



	A mm	B mm	mm	mm	kg
450.0060	30	58	22	18	1,10

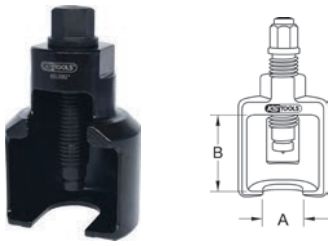
Vibro-Impact Universal Ball Joint Puller Bell 32 x 90 mm

- Pressure pieces in the spindle rotating mouted
- Trapezoidal spindle
- High release force due to rotary shock pulse with impact wrench
- Impact screws create pressure and vibration at the same time, through which the secure ball joint connections and quickly and safely removed
- Less space required
- Cast forged execution
- With inspection panel
- Special tool steel

	A mm	B mm	mm	mm	kg
450.0061	32	90	24	25	2,51

Vibro-Impact Universal Ball Joint Puller Bell 39 x 58 mm

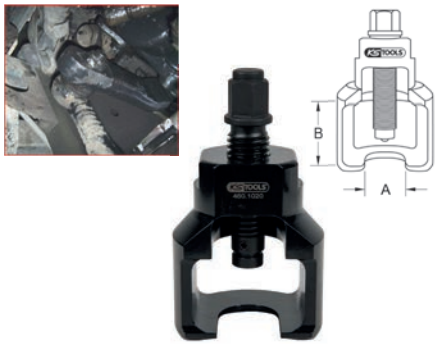
- Pressure pieces in the spindle rotating mouted
- Trapezoidal spindle
- High release force due to rotary shock pulse with impact wrench
- Impact screws create pressure and vibration at the same time, through which the secure ball joint connections and quickly and safely removed
- Less space required
- Cast forged execution
- Without inspection panel
- Special tool steel



	A mm	B mm	mm	mm	kg
450.0062	39	58	24	25	2,83

Vibro-Impact Universal Ball Joint Puller Bell 32 x 40 mm

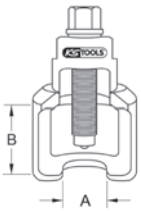
- Pressure pieces in the spindle rotating mouted
- Trapezoidal spindle
- High release force due to rotary shock pulse with impact wrench
- Impact screws create pressure and vibration at the same time, through which the secure ball joint connections and quickly and safely removed
- Less space required
- Cast forged execution
- With inspection panel
- Special tool steel



	A mm	B mm	mm	mm	kg
460.1020	32,0	40,0	22,0	19,0	1,50

Vibro-Impact Universal Ball Joint Puller Bell 39 x 60 mm

- Pressure pieces in the spindle rotating mouted
- Trapezoidal spindle
- High release force due to rotary shock pulse with impact wrench
- Impact screws create pressure and vibration at the same time, through which the secure ball joint connections and quickly and safely removed
- Less space required
- Cast forged execution
- With inspection panel
- Special tool steel

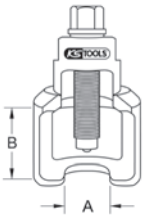


	A mm	B mm	mm	mm	kg
450.0066	39	60	26	39	3,80

Vibro-Impact Universal Ball Joint Puller Bell 39 x 59 mm

- Ball mounted rotatably in the spindle
- Trapezoidal spindle
- High release force due to rotary shock pulse with impact wrench
- Impact screws create pressure and vibration at the same time, through which the secure ball joint connections and quickly and safely removed
- Less space required
- Cast forged execution
- With inspection panel
- Special tool steel

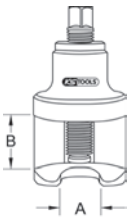
Application range: Universally applicable for commercial vehicles 3.5-8.8t



	A mm	B mm	mm	mm	kg
460.0475	32,0	90,0	24,0	26,0	2,70

Vibro-Impact Universal Ball Joint Puller Bell 35 x 60 mm

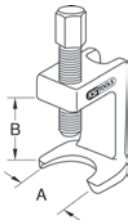
- Ball mounted rotatably in the spindle
- Trapezoidal spindle
- High release force due to rotary shock pulse with impact wrench
- Impact screws create pressure and vibration at the same time, through which the secure ball joint connections and quickly and safely removed
- Less space required
- Cast forged execution
- With inspection panel
- Special tool steel



	A mm	B mm	mm	mm	kg
450.0085	35	60	M27 x 130	24	2,52

Universal ball joint ejector

- For many automobiles and commercial vehicles
- Special tool steel



	A mm	B mm	max t	mm	mm	g
670.0061	23	55	4	17	M16x1,5x60	800
670.0062	28	55	4	17	M16x1,5x60	800
670.0063	34	63	4	19	M18x1,5x70	900

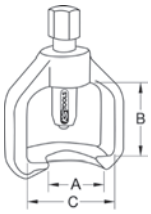
Universal ball joint extractor

- Tools for pushing out support and guide joints as well as
- Tie rod joint pin consisting of steering lever, axle beam/arm and stabilizers
- Universally applicable in the range of passenger cars to vans
- Compact and stable design
- Extremely robust spindle with inductively hardened thread and pressure ball
- In durable plastic storage case

			kg
670.0060	3 pcs	23 - 28 - 34 mm	2,90

Universal ball joint separator

- For many automobiles and commercial vehicles
- Special tool steel

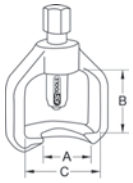


	A mm	B mm	C mm	max N·m	mm	mm	kg
670.0101	18	40	40	50	M14x1,5x60	17	0,30
670.0102	25	50	50	120	M16x1,5x60	17	0,70
670.0103	29	60	60	160	M18x1,5x75	19	1,00
670.0104	40	80	80	280	G1/2"x14gx110	22	2,10
670.0105	45	100	90	400	G3/4"x14gx125	27	2,80

Universal ball joint separator

- For a professional disassembly of the ball joints on the upper wishbone
- Optimal positioning through compact design
- Special tool steel

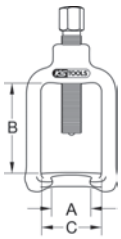
Application range: Volkswagen T4 bus / Multivan / California / pickup etc.



	A mm	B mm	C mm	max N·m	mm	mm	kg
670.0106	56	80	100	280	G1/2"x14gx110	22	2,10

Universal ball joint extractor

- Robust model for loosening the track heads and push pole heads
- Optimal positioning through compact design and slim fork piece
- Special tool steel



	A mm	B mm	C mm	mm	mm	kg
450.0075	45	75	63	24	M22 x 135	1,63
450.0076	55	100	76	24	M22 x 135	1,84

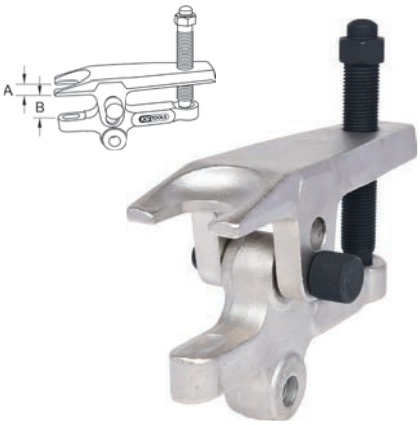
Universal ball joint separator 2 stage adjustable

- Separator 2 stage adjustable
- Ideal for confined spaces
- Spindle hexagonal with additional drive point
- Forged
- Special tool steel

	A mm	B mm	mm	mm	kg
700.5610	24	0-55	M16 x 90	20	1,05

Universal ball joint separator 4 stage adjustable

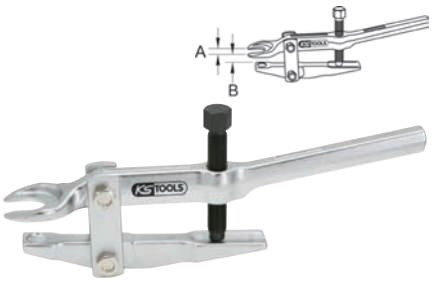
- Separator 4 stage adjustable
- Spindle hexagonal with additional drive point
- Forged
- Special tool steel
- Stage 1: 24 mm
- Stage 2: 30 mm
- Stage 3: 40 mm
- Stage 4: 45 mm



	A mm	B mm	mm	mm	kg
700.5630	20	24-45	M14 x 105	18	1,50

Universal ball joint separator

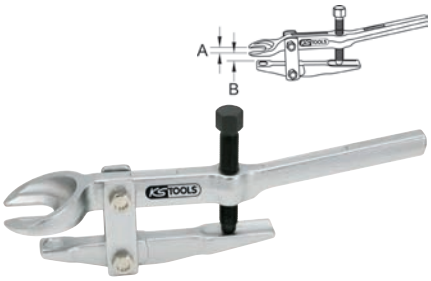
- Extra flat execution
- Forged
- Special tool steel



	A mm	B mm	mm	mm	kg
700.5620	18	20-37	M14 x 85	16	0,97

Universal ball joint separator

- Extra strong execution
- Forged
- Special tool steel



	A mm	B mm	mm	mm	kg
700.5625	20	20-37	M12 x 85	16	1,07

Universal ball joint extractor

- Robust model for loosening the track heads and push pole heads
- Optimal positioning through compact design and slim fork piece
- Adjustment of the clamp by means of the spindle
- Special tool steel

	A mm	B mm	mm	mm	kg
450.0070	32	75	M22 x 90	30	2,49
450.0071	45	80	M22 x 90	30	2,61

Ball joint puller for commercial vehicle, mechanical

- Massive execution for loosening the track heads and push pole heads
- Enormous power through lever transmission
- Special tool steel

	A mm	B mm	mm	mm	kg
450.0051	36	70	M24x3x160	34	4,34

Hydraulic universal ball joint separator

- Massive execution for loosening the track heads and push pole heads
- for fork-opening diameters of up to 36 mm
- Enormous power through lever transmission
- Excellent power transfer
- Special tool steel

	A mm	B mm	max t	mm	mm	kg
450.0050	36	70	10	17	1.1/2"x16G	6,55

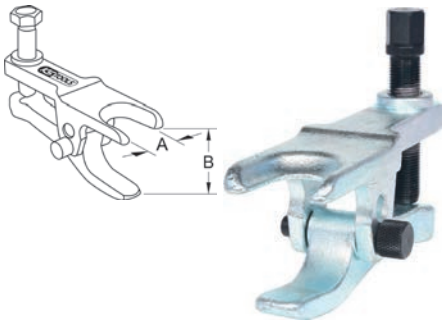
Universal ball joint separator

- Massive execution for loosening the track heads and push pole heads
- suitable for many heavy trucks, buses and low-floor buses
- Enormous power through lever transmission
- including 3 exchangeable pressure peaks
- Special tool steel

	A mm	B mm	mm	kg
460.1030	39,0	70,0	19,0	6,00

Universal ball joint separator

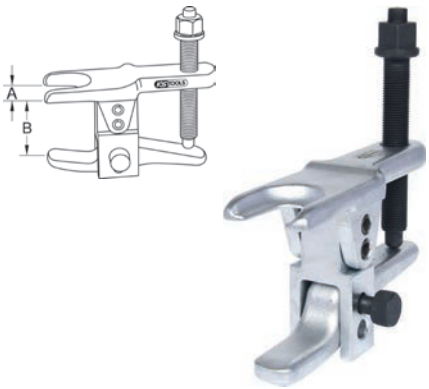
- For separating the ball plug when removing the ball joints
- Suitable for many vehicles + transporter
- Also suitable for aluminum undercarriages
- Special tool steel



	A mm	B mm	max t	mm	mm	kg
670.0121	24	50	3,5	17	M16x1,5x70	1,40
670.0122	24	60-80	3,5	17	M15x1,5x90	1,80

Universal ball joint separator 2 stage adjustable

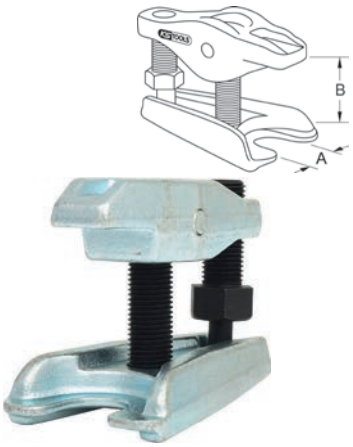
- Separator 2 stage adjustable
- Ideal for confined spaces
- Extremely high clamping range
- Spindle hexagonal with additional drive point
- Forged
- Special tool steel



	A mm	B mm	mm	mm	kg
700.5615	18-24	23-110	M16 x 130	16	1,20

Universal ball joint separator

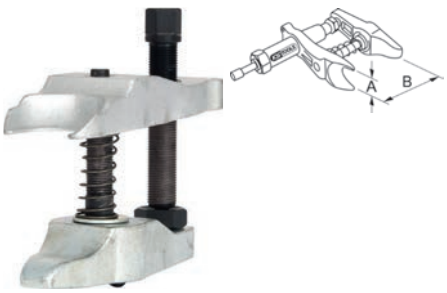
- For separating the ball plug when removing the ball joints
- Suitable for many vehicles
- Special tool steel



	A mm	B mm	max t	mm	mm	kg
670.0111	18-22	50	3,5	19	M14x1,5x48	0,90

Universal ball joint separator

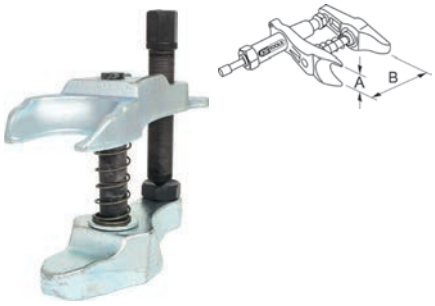
- For separating the ball plug when removing the ball joints
- Suitable for many vehicles + moderately heavy trucks
- Special tool steel



	A mm	B mm	max t	mm	mm	kg
670.0131	36	90	10	22	G1/2"x14gx110	3,70

Universal ball joint separator

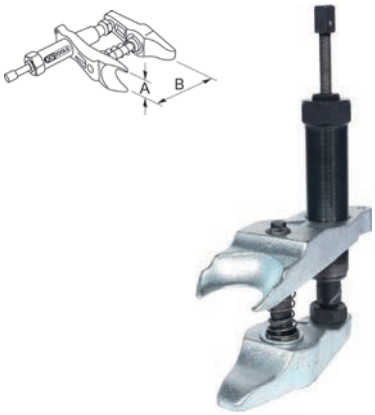
- For separating the ball plug when removing the ball joints
- suitable for many heavy trucks, buses and low-floor buses
- For bolts Ø 35.0 - 45.0 mm
- Special tool steel



	A mm	B mm	max t	mm	mm	kg
670.0161	45	115	20	27	G3/4"x14gx125	6,40

Hydraulic universal ball joint separator

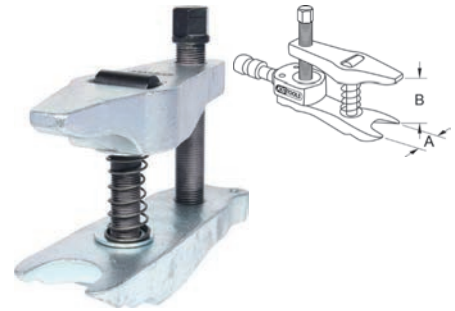
- For separating the ball plug when removing the ball joints
- Suitable for many vehicles + moderately heavy trucks
- For bolts Ø 27.0 - 36.0 mm
- Special tool steel



	A mm	B mm	max t	mm	mm	kg
670.0141	36	90	10	17	1.1/2"x16G	4,70

Universal ball joint separator without hydraulic cylinder

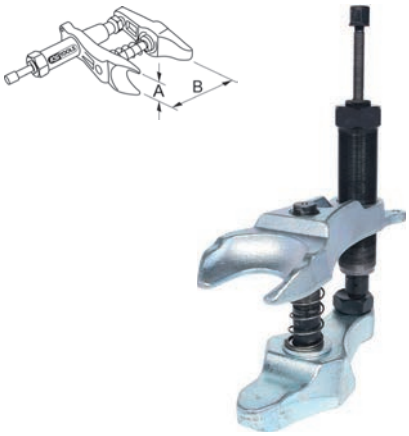
- For separating the ball plug when removing the ball joints
- Suitable for many vehicles + moderately heavy trucks
- For bolts Ø 27.0 - 36.0 mm
- Special tool steel
- For use with 640.0140



	A mm	B mm	max t	Adjusting screw mm	Ambos spindle mm	mm	kg
670.0151	36	90	10	M18x1,5x120	G1/2"x14x110	22	3,50

Hydraulic universal ball joint separator

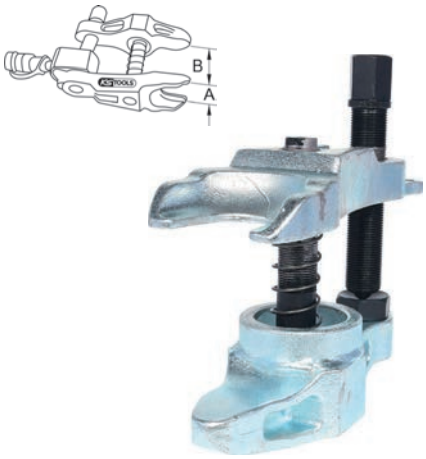
- For separating the ball plug when removing the ball joints
- suitable for many heavy trucks, buses and low-floor buses
- For bolts Ø 35.0 - 45.0 mm
- Special tool steel



	A mm	B mm	max t	mm	mm	kg
670.0171	45	115	20	17	M14x1,5x50	7,00

Universal ball joint separator without hydraulic cylinder

- For separating the ball plug when removing the ball joints
- suitable for many heavy trucks, buses and low-floor buses
- For bolts Ø 35.0 - 45.0 mm
- Special tool steel
- For use with 640.0140 / 640.0150



	A mm	B mm	max t	mm	mm	kg
670.0181	45	115	20	27	G3/4"x14gx125	6,00

Universal ball joint remover set with changeable forks

- With interchangeable forks Ø 20/22/24/27/30 mm
- For separating the ball plug when removing the ball joints
- Quick changes of the individual pressure forks due to the spring breaker system
- Maximum separation height: 125.0 mm
- In durable plastic storage case

			kg
450.0970	7 pcs	Universal ball joint remover set with changeable forks	6,00

consists of:

		g
450.0971	Universal ball pin ejector device	2000
450.0972	Pressure spindle	380
450.0973	Fork, Ø 20 mm	520
450.0974	Fork, Ø 22 mm	520
450.0975	Fork, Ø 24 mm	520
450.0976	Fork, Ø 27 mm	520
450.0977	Fork, Ø 30 mm	520

Wheel hub impact puller

- suitable for removing 4 and 5-hole wheel hubs
- Holes from 100 to 150 mm
- With 1.2 kg impact force
- Optimal grip with plastic handle
- Ideally used when replacing wheel bearings
- Simple handling
- Special tool steel

	Rim diameter Ø mm	Bolt Ø mm	Hammer Ø mm	Slide rail Ø mm	Adaptor thread mm	kg
670.0001	100-150	max. 14	60	60	M16 x 1,5	3,70

WHEEL HUB EXTRACTOR & DRIVE SHAFT EJECTOR

Flange extractor set

- In order to separate the flanges in pipes to enable gasket changing or maintenance works
- For screws M16 - M24
- Special tool steel

		Ø mm	mm	mm	kg
670.0251	2 pcs	80-250	M24x-1,5x110	24	5,60

Separating and assembly fork

- For quick loosening of track and steering rod ends steering arms and additional controlling parts
- Ideal for confined spaces
- Special tool steel

Caution: The separating and mounting fork damages the dust sleeve

	A mm	L mm	kg
670.0091	18	330,0	0,90
670.0092	23	330,0	0,90
670.0093	31	330,0	1,10
670.0094	35	330,0	1,30
670.0095	45	330,0	1,50

Universal wheel hub extractor set

- For bolt circle diameter up to 250 mm
- Clamp foot hole for bolts 14 mm, 18 mm + 22 mm
- Special tool steel

			kg
670.0013	5 pcs	Universal wheel hub extractor set	3,60

Universal wheel hub extractor set

- For bolt circle diameter up to 250 mm
- Clamp foot hole for bolts 14 mm, 18 mm + 22 mm
- Special tool steel

			kg
670.0014	6 pcs	Universal wheel hub extractor set	4,10

Universal wheel hub extractor set

- For bolt circle diameter up to 250 mm
- Clamp foot hole for bolts 14 mm, 18 mm + 22 mm
- Special tool steel

			kg
670.0015	7 pcs	Universal wheel hub extractor set	4,60

accessories:

		g
670.0017	Traverse bar for weehl hub extractor set	820
670.0018	Puller leg +reception ring Ø14mm + Ø18mm	540
670.0019	Reception ring Ø 14mm	22
670.0020	Reception ring Ø 18mm	16
610.2701	Spindle, 27mm, G3/4"x14Gx180mm	1000

Universal wheel bearing puller and drive shaft puller, hydraulic

- Special tool for expressing the joint hubs or drawing off of the wheel hub
- Massive tool, made out of a one piece
- Special tool steel
- In durable plastic storage case

			kg
700.1400	11 pcs	Universal wheel bearing puller and drive shaft puller, hydraulic	9,34

consists of:

		kg
700.1400-1	Hydraulic spindle 10 t, AG 1.1/2"x16G	1,34
700.1400-2	Disc traverse, 100mm	0,92
700.1400-3	Puller pull arm set, 5 pcs	0,50
700.1400-4	Impact socket 30mm, L=200mm	0,94
700.1400-5	Impact spindle	2,02
700.1400-7	Extension small	0,06

Wheel hub and bearing dismantling set

- Special tool for expressing the joint hubs or drawing off of the wheel hub
- Massive tool, made out of a one piece
- Special tool steel

			kg
700.1410	7 pcs	Wheel hub and bearing dismantling set	4,80

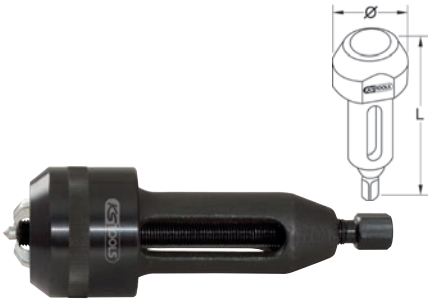
consists of:

		kg
700.1400-1	Hydraulic spindle 10 t, AG 1.1/2"x16G	1,34
700.1411	Wheel hub puller without spindle	2,55
700.1412	Conical ring set, 5 pcs	0,15

DRAW OFF LINING

Draw off lining

- For drawing off the shoulder housings interior ring of light machines, motor parts and other machine parts
- Special tool steel



	Ø mm	L mm	max N·m	mm	mm	kg
670.0221	5-32	135	60	17	M14x1,5 x 130	1,40

STUD BOLT PULLER

Stud bolt puller

- For screwing in or extracting out stud bolts
- Right and left clamping function
- also for lengthy stud bolts
- Special tool steel

	Ø mm	max N·m	⬢	g
670.0231	5 - 15	120	19 mm	360
670.0232	10 - 19	120	19 mm	400
670.0233	18 - 28	120	19 mm	450

Stud bolt puller

- For screwing in or extracting out stud bolts
- Right and left clamping function
- also for lengthy stud bolts
- Special tool steel

	Ø mm	max N·m	⬢	g
670.0241	5 - 20	120	19 mm	400

Eccentric clamping and turning device

- For the removal and rotation of the round or hexagonal track rod joints (steering and wheel end)
- Due to the knurled eccentric cam it allows from optimal grip even at the joints without drive (round)
- For use on the workbench or directly on the vehicle
- Additional stopper prevents slipping during the splitting process
- Special tool steel

1/2"

	● Ø mm	⬢ Ø mm	g
150.1640	23-45	31-35	300

Eccentric clamping and turning device

- For the removal and rotation of the round or hexagonal track rod joints (steering and wheel end)
- Due to the knurled eccentric cam it allows from optimal grip even at the joints without drive (round)
- For use on the workbench or directly on the vehicle
- Additional stopper prevents slipping during the splitting process
- Special tool steel

1/2"

	● Ø mm	⬢ Ø mm	g
150.1642	25-55	25-46	800

Stud bolt puller

- External hexagon drive
- With right and left hand clamping function
- Safe clamping due to 3 rollers
- Stud screws can be screwed in or out without using counter nuts on the bolt
- Also for extra long studs that will go through the through socket
- Mirror polished
- Chrome vanadium

		■	⬢	g
152.1005	M5	3/8"	19 mm	150
152.1006	M6	1/2"	21 mm	160
152.1007	M7	1/2"	21 mm	160
152.1008	M8	1/2"	21 mm	170
152.1010	M10	1/2"	21 mm	180
152.1012	M12	1/2"	21 mm	200
152.1014	M14		24 mm	200

Screw bolt puller set

- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- External drive hexagonal socket 21.0 mm
- With right and left hand clamping function
- Safe clamping due to 3 rollers
- allows quick and effortless insertion and removal of studs, dowel screws, threaded rods etc.
- Stud screws can be screwed in or out without using counter nuts on the bolt
- Also for extra long studs that will go through the through socket
- Mirror polished
- Chrome vanadium
- In durable plastic storage case

			kg
152.1100	4 pcs	M6 - M8 - M10 - M12	0,79

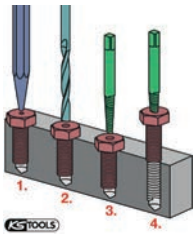
Screw bolt puller set

- External hexagon drive
- With right and left hand clamping function
- Safe clamping due to 3 rollers
- Stud screws can be screwed in or out without using counter nuts on the bolt
- Also for extra long studs that will go through the through socket
- Mirror polished
- Chrome vanadium
- In durable plastic storage case

			kg	
152.1101	7 pcs	M5 - M6 - M7 - M8 - M10 - M12 - M14	1,50	

Screw extractor set

- For screws from M3 - M18
- Enable the loosening of screws and bolts with turned off heads
- Conical tapered spiral
- In durable plastic case



			g	
150.1330	6 pcs	M3-M6 - M6-M8 - M8-M11 - M11-M14 - M14-M18 - M18-M24	64	

NUT SPLITTER

Mechanical nut splitter set

- For splashing on tight and overtightened nuts without damaging the threaded bolt
- Suitable for nuts to a tensile strength class 6
- Special tool steel

			kg	
700.1180	4 pcs	Mechanical nut splitter set	1,58	

consists of:

		g	
700.1181	Nut splitter 9 - 12 mm, drive 12 mm	90	
700.1182	Nut splitter 12 - 16 mm, drive 14 mm	170	
700.1183	Nut splitter 16 - 22 mm, drive 19 mm	380	
700.1184	Nut splitter 22 - 27 mm, drive 21 mm	660	

Hydraulic nut splitter set

- For splashing on tight and overtightened nuts without damaging the threaded bolt
- Working range 7.0 - 36. mm
- Induction hardened in the cutting area
- Suitable for nuts to a tensile strength class 10
- Excellent power transfer
- Special tool steel
- In durable plastic storage case

			kg	
700.1170	7 pcs	Hydraulic nut splitter set	5,00	

consists of:

		g	
700.1150	Hydraulic nut splitter 7.0 - 21.0 mm	700	
700.1163	Nut splitter	3600	
700.1151	Replacement chisel small	50	
700.1152	Replacement plate small	50	
700.1161	Replacement chisel large	100	
700.1162	Replacement plate large	100	
151.2073	Hexagon key 3/8" for replacement plate large	110	

Hydraulic nut splitter

- Small execution
- Suitable for nuts to a tensile strength class 10
- Work pressure max. 5 t
- Suitable for narrow spaces

	mm	L mm	g	
700.1150	7 -21	210,0	700	

Hydraulic nut splitter

- Small execution
- Suitable for nuts to a tensile strength class 10
- Compressive force max. 15 t
- Suitable for narrow spaces
- Exchangeable chisel

	mm	Length mm	kg	
630.0022	22-36	290,0	2,90	

Hydraulic nut splitter set

- Large execution
- Suitable for nuts to a tensile strength class 10
- Work pressure max. 13 t
- In durable plastic storage case

			kg	
700.1160	4 pcs	22 - 36 mm; M14 - M24	3,80	

consists of:

		g	
700.1161	Replacement chisel large	100	
700.1162	Replacement plate large	100	
700.1163	Nut splitter	3600	
151.2073	Hexagon key 3/8" for replacement plate large	110	

KS TOOLS

Innovation is
our mission!

BORING AIDS

Epoxy metal Quicksteel

- Optimal adhesive power
- Enables durable repair
- Mechanical preparation after the curing possible
- Firmly set after 15 minutes
- Cures after 60 minutes completely
- Also suitable for use under water
- Temperature resistant up to 260°C
- Approx three years use duration
- Resistant to oil, diesel, petrol and battery acid

Application range: Metal, glass, plastic, ceramics, wood, concrete optical fiber reinforced plastic etc.

		g
500.1015	Epoxy metal Quicksteel	80

Screw grab screw assistance

- Increases the static friction by up to 400%
- Residue free washes off and non-toxic
- Immediate effect without waiting
- Applicable for all screw heads
- Unlimited storage

Application range: In rounded turned screw heads

	Content	g
500.1010	15 ml	250

STUD BOLT REMOVAL AND INSERTION TOOLS

Stud bolt puller

- For screwing in or extracting out stud bolts
- Right and left clamping function
- also for lengthy stud bolts
- Special tool steel

	Ø mm	max N·m	⬢	g
670.0231	5 - 15	120	19 mm	360
670.0232	10 - 19	120	19 mm	400
670.0233	18 - 28	120	19 mm	450

Stud bolt puller

- For screwing in or extracting out stud bolts
- Right and left clamping function
- also for lengthy stud bolts
- Special tool steel

	Ø mm	max N·m	⬢	g
670.0241	5 - 20	120	19 mm	400

Eccentric clamping and turning device

- For the removal and rotation of the round or hexagonal track rod joints (steering and wheel end)
- Due to the knurled eccentric cam it allows from optimal grip even at the joints without drive (round)
- For use on the workbench or directly on the vehicle
- Additional stopper prevents slipping during the splitting process
- Special tool steel

1/2"

	● Ø mm	⬢ Ø mm	■	g
150.1640	23-45	31-35	1/2"	300

Eccentric clamping and turning device

- For the removal and rotation of the round or hexagonal track rod joints (steering and wheel end)
- Due to the knurled eccentric cam it allows from optimal grip even at the joints without drive (round)
- For use on the workbench or directly on the vehicle
- Additional stopper prevents slipping during the splitting process
- Special tool steel

1/2"

	● Ø mm	⬢ Ø mm	■	g
150.1642	25-55	25-46	1/2"	800

Stud bolt puller

- External hexagon drive
- With right and left hand clamping function
- Safe clamping due to 3 rollers
- Stud screws can be screwed in or out without using counter nuts on the bolt
- Also for extra long studs that will go through the through socket
- Mirror polished
- Chrome vanadium

		■	⬢	g
152.1005	M5	3/8"	19 mm	150
152.1006	M6	1/2"	21 mm	160
152.1007	M7	1/2"	21 mm	160
152.1008	M8	1/2"	21 mm	170
152.1010	M10	1/2"	21 mm	180
152.1012	M12	1/2"	21 mm	200
152.1014	M14		24 mm	200
152.1016	M16		24 mm	303
152.1018	M18	3/4"	36 mm	838
152.1002	M20	3/4"	36 mm	818
152.1003	M22		36 mm	748
152.1004	M24		36 mm	728
152.1029	M30		46 mm	1677

Screw bolt puller set

- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- External drive hexagonal socket 21.0 mm
- With right and left hand clamping function
- Safe clamping due to 3 rollers
- allows quick and effortless insertion and removal of studs, dowel screws, threaded rods etc.
- Stud screws can be screwed in or out without using counter nuts on the bolt
- Also for extra long studs that will go through the through socket
- Mirror polished
- Chrome vanadium
- In durable plastic storage case

			kg
152.1100	4 pcs	M6 - M8 - M10 - M12	0,79

consists of:

		g
152.1006	Stud bolt puller, M6	160
152.1008	Stud bolt puller, M8	170
152.1010	Stud bolt puller, M10	180
152.1012	Stud bolt puller, M12	200

Screw bolt puller set

- External hexagon drive
- With right and left hand clamping function
- Safe clamping due to 3 rollers
- Stud screws can be screwed in or out without using counter nuts on the bolt
- Also for extra long studs that will go through the through socket
- Mirror polished
- Chrome vanadium
- In durable plastic storage case

			kg	
152.1101	7 pcs	M5 - M6 - M7 - M8 - M10 - M12 - M14	1,50	

consists of:

		g	
152.1005	Stud bolt puller, M5	150	
152.1006	Stud bolt puller, M6	160	
152.1007	Stud bolt puller, M7	160	
152.1008	Stud bolt puller, M8	170	
152.1010	Stud bolt puller, M10	180	
152.1012	Stud bolt puller, M12	200	
152.1014	Stud bolt puller, M14	200	

Stud bolt extraction and insertion tool set

- For screwing in or extracting out stud bolts
- With external hexagonal socket drive 17.0 mm and 19.0 mm
- Very flat compact and robust execution
- Right and left clamping function
- also for lengthy stud bolts
- Special tool steel
- In durable plastic storage case

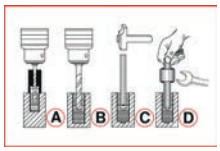
		g	
670.0255	12 pcs	Stud bolt extraction and insertion tool set	544	

consists of:

		g	
670.0256	Expansion sleeve, 2 pcs. M10 x 1.5	60	
670.0257	Expansion sleeve, 2 pcs. M10 x 1.25	60	
670.0258	Expansion sleeve, 2 pcs. M8 x 1.25	40	
670.0259	Expansion sleeve, 2 pcs. M6 x 1.0	60	
670.0263	Mounting sleeve, M10 x 1.5	40	
670.0264	Mounting sleeve, M10 x 1.25	40	
670.0266	Mounting sleeve, M8 x 1.25	40	
670.0267	Mounting sleeve, M6 x 1.0	40	

Stud extractor set

- Set contents for extensive applications
- For removing of threaded bolts, studding and screws
- No damage of the thread
- Only negligible enlarging of the threaded bolt through special profile extractor pin
- For screws and bolts M5 - M16
- Special tool steel
- In durable plastic storage case



		g	
150.1305	25 pcs	Stud extractor set	650	

extractor:

	Size mm	Ø mm	Ø	Thread	L mm	Extractor pin incl thrust bolt	g	
150.0521	1	3,2	1/8"	M5-M6	60,0	150.0511S	150	
150.0522	2	4,8	3/16"	M7-M8	70,0	150.0512S	180	
150.0523	3	6,4	1/4"	M9-M10	78,0	150.0513S	230	
150.0524	4	8,0	5/16"	M12	83,0	150.0514S	300	
150.0525	5	8,7	11/32"	M14-M16	94,0	150.0515S	350	

extractor nut:

	Size mm	Pin dim	mm	L mm	g	
150.0511	1	1	10,0	16,0	130	
150.0512	2	2	11,0	16,0	230	
150.0513	3	3	13,0	16,0	350	
150.0514	4	4	14,0	16,0	470	
150.0515	5	5	17,0	16,0	590	

drill:

	Ø mm	Ø	Drill bush	L mm	g	
150.1305-21	3,2	1/8"	1 - 4	65,0	20	
150.1305-22	4,8	3/16"	5 - 7	86,0	20	
150.1305-23	6,4	1/4"	8	101,0	20	
150.1305-24	8,0	5/16"	9	117,0	20	
150.1305-25	8,7	11/32"	10	125,0	20	

bushes:

	Size mm	Inner Ø 1 mm	Inner Ø 2 mm	Inner Ø 1	Inner Ø 2	L mm	g	
150.0501	1	4,0	3,2	5/32"	1/8"	30,0	3	
150.0502	2	4,8	3,2	3/16"	1/8"	30,0	8	
150.0503	3	4,8	3,2	3/16"	1/8"	30,0	10	
150.0504	4	4,8	3,2	3/16"	1/8"	30,0	14	
150.0505	5	6,0	4,8		3/16"	30,0	12	
150.0506	6	7,0	4,8	9/32"	3/16"	30,0	14	
150.0507	7	7,0	4,8	9/32"	3/16"	30,0	18	
150.0508	8	7,0	4,8	9/32"	3/16"	30,0	22	
150.0509	9	9,0	6,5		1/4"	30,0	17	
150.0510	10	9,5	6,5	3/16"	1/4"	30,0	21	

SPIRAL PROFILE SOCKETS

Spiral profile socket nut

- Very flat compact and robust execution
- Rejuvenating special profile with aggressive spiral nut
- Bites firmly to give a firm connection between stuck nut and head
- Can be used with a socket or ring spanner
- Phosphate finish
- Chrome molybdenum

		mm	g	
913.3881	M8	16,0	10	
913.3882	M10	16,0	10	
913.3883	M11	18,0	10	
913.3884	M12	19,0	10	
913.3885	M13	19,0	20	
913.3886	M14	21,0	20	
913.3887	M15	23,0	20	
913.3888	M16	24,0	30	
913.3889	M17	26,0	40	
913.3890	M19	27,0	40	

Spiral profile socket nut set

- For loosening and unscrewing of fixed bolt and nuts with damaged “round turned” threads or heads
- Special, left handed cutting edge thread with 6 conical reducing cutting edges
- Very flat compact and robust execution
- The drive can be used alternatively with a socket ring or combination spanner
- In durable plastic storage case

913.3880	10 pcs	M8 - M10 - M11 - M12 - M13 - M14 - M15 - M16 - M17 - M19	300

consists of:

913.3881	Spiral profile socket nut, M8	10
913.3882	Spiral profile socket nut, M10	10
913.3883	Spiral profile socket nut, M11	10
913.3884	Spiral profile socket nut, M12	10
913.3885	Spiral profile socket nut, M13	20
913.3886	Spiral profile socket nut, M14	20
913.3887	Spiral profile socket nut, M15	20
913.3888	Spiral profile socket nut, M16	30
913.3889	Spiral profile socket nut, M17	40
913.3890	Spiral profile socket nut, M19	40

Spiral profile impact socket

- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Rejuvenating special profile with aggressive spiral nut
- For turning off of screws with rounded or turned heads
- Bites firmly to give a firm connection between stuck nut and head
- Phosphate finish
- Chrome molybdenum

1/4"

	mm	D mm	L mm	
913.1473	6,0	17,0	32,0	40
913.1408	8,0	17,0	32,0	40
913.1410	10,0	17,0	32,0	40
913.1470	11,0	17,0	32,0	40
913.1412	12,0	17,0	32,0	40
913.1413	13,0	19,0	32,0	40

Spiral profile socket set

- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Rejuvenating special profile with aggressive spiral nut
- For turning off of screws with rounded or turned heads
- Bites firmly to give a firm connection between stuck nut and head
- Phosphate finish
- Chrome molybdenum
- Includes storage rail

1/4"

913.1450	4 pcs	Spiral profile socket set	200

consists of:

913.1408	1/4” Spiral profile impact socket, 8mm	40
913.1410	1/4” Spiral profile impact socket, 10mm	40
913.1412	1/4” Spiral profile impact socket, 12mm	40
913.1413	1/4” Spiral profile impact socket, 13mm	40

Spiral profile impact socket set

- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Rejuvenating special profile with aggressive spiral nut
- For turning off of screws with rounded or turned heads
- Bites firmly to give a firm connection between stuck nut and head
- Drive out pin
- Phosphate finish
- Chrome molybdenum
- In durable plastic storage case

1/4" 1/2"

913.1460	15 pcs	Spiral profile impact socket set	1,10

consists of:

913.1473	1/4” Spiral profile impact socket, 6mm	40
913.1408	1/4” Spiral profile impact socket, 8mm	40
913.1410	1/4” Spiral profile impact socket, 10mm	40
913.1470	1/4” Spiral profile impact socket, 11mm	40
913.1412	1/4” Spiral profile impact socket, 12mm	40
913.1468	1/2” Spiral profile impact socket, 13mm	50
913.1467	1/2” Spiral profile impact socket, 14mm	70
913.1466	1/2” Spiral profile impact socket, 15mm	70
913.1465	1/2” Spiral profile impact socket, 17mm	70
913.1464	1/2” Spiral-Profile-Force-Plug, 19mm	90
913.1463	1/2” Spiral profile impact socket, 21mm	90
913.1462	1/2” Spiral profile impact socket, 24mm	110
913.1461	1/2” Spiral profile impact socket, 27mm	110

Spiral profile impact socket

- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Rejuvenating special profile with aggressive spiral nut
- For turning off of screws with rounded or turned heads
- Bites firmly to give a firm connection between stuck nut and head
- Phosphate finish
- Chrome molybdenum

3/8"

	mm	D mm	L mm	
913.3858	8,0	17,0	34,0	30
913.3860	10,0	15,0	34,0	30
913.3861	11,0	16,0	34,0	30
913.3862	12,0	18,0	34,0	40
913.3863	13,0	18,5	34,0	40
913.3864	14,0	20,5	34,0	40
913.3865	15,0	22,0	34,0	60
913.3866	16,0	22,5	34,0	60
913.3867	17,0	24,5	34,0	70
913.3868	18,0	26,0	34,0	80
913.3869	19,0	27,0	34,0	80

Spiral profile socket set

- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Rejuvenating special profile with aggressive spiral nut
- For turning off of screws with rounded or turned heads
- Bites firmly to give a firm connection between stuck nut and head
- Phosphate finish
- Chrome molybdenum
- Includes storage rail

3/8"

913.3850	4 pcs	Spiral profile socket set	200

consists of:

913.3858	3/8” Spiral profile socket, 8 mm	30
913.3860	3/8” Spiral profile socket, 10 mm	30
913.3862	3/8” Spiral profile socket, 12 mm	40
913.3863	3/8” Spiral profile socket, 13 mm	40

Spiral profile impact socket set

- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Rejuvenating special profile with aggressive spiral nut
- For turning off of screws with rounded or turned heads
- Bites firmly to give a firm connection between stuck nut and head
- Drive out pin
- Phosphate finish
- Chrome molybdenum
- In durable plastic storage case

3/8"

913.3855	10 pcs	Spiral profile impact socket set	660

consists of:

913.3860	3/8" Spiral profile impact socket, 10mm	30
913.3861	3/8" Spiral profile impact socket, 11mm	30
913.3862	3/8" Spiral profile impact socket, 12mm	40
913.3863	3/8" Spiral profile impact socket, 13mm	40
913.3864	3/8" Spiral profile impact socket, 14mm	40
913.3865	3/8" Spiral profile impact socket, 15mm	60
913.3866	3/8" Spiral profile impact socket, 16mm	60
913.3867	3/8" Spiral profile impact socket, 17mm	70
913.3868	3/8" Spiral profile impact socket, 18mm	80
913.3869	3/8" Spiral profile impact socket, 19mm	80
913.3870	Burr arbor, 3/8", for 913.3855	30

Spiral profile impact socket

- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Rejuvenating special profile with aggressive spiral nut
- For turning off of screws with rounded or turned heads
- Bites firmly to give a firm connection between stuck nut and head
- Phosphate finish
- Chrome molybdenum

1/2"

	mm	L mm	
913.1469	12,0	34,0	40
913.1468	13,0	34,0	50
913.1467	14,0	34,0	70
913.1466	15,0	34,0	70
913.1465	17,0	34,0	70
913.1464	19,0	34,0	90
913.1249	19,0	50,0	90
913.1250	20,0	50,0	110
913.1463	21,0	34,0	90
913.1252	22,0	50,0	120
913.1253	23,0	50,0	130
913.1462	24,0	34,0	110
913.1255	25,0	50,0	150
913.1461	27,0	34,0	110

SPECIAL BORING TOOLS

Spiral profile impact socket set

- Dual profile sockets have spiral grooves and hexagonal profiles
- Self-fastening and rejuvenating special profile with aggressive spiral nut
- For loosening badly damaged screws and nuts
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Positive connection
- For machinery usage
- Phosphate finish
- Chrome molybdenum

1/2"

913.1280	3 pcs	Spiral profile impact socket set	600

consists of:

913.1281	Twist socket, 1/2", 17mm	130
913.1282	Twist socket, 1/2", 19mm	170
913.1283	1/2" Socket Extension	160

Spiral profile impact socket set

- Dual profile sockets have fine and coarse spiral groove profiles
- Self-fastening and rejuvenating special profile with aggressive spiral nut
- For loosening badly damaged screws and nuts
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Positive connection
- For machinery usage
- Phosphate finish
- Chrome molybdenum

1/2"

913.1270	3 pcs	Spiral profile impact socket set	600

consists of:

913.1271	Twist socket, 1/2", 17mm	140
913.1272	Twist socket, 1/2", 19mm	200
913.1273	Twist socket, 1/2", 21mm	210

Spiral profile impact socket, extra deep

- Self-fastening and rejuvenating special profile with aggressive spiral nut
- For loosening badly damaged screws and nuts
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Extra long execution
- For machinery usage
- Phosphate finish
- Chrome molybdenum

1/2"

	mm	Length mm	
913.1291	17,0	145,0	300
913.1292	19,0	145,0	320
913.1293	21,0	145,0	340

Spiral profile impact socket set, extra deep

- Self-fastening and rejuvenating special profile with aggressive spiral nut
- For loosening badly damaged screws and nuts
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Positive connection
- Includes impact bar to extract or remove the damaged bolt or nut
- Extra long execution
- For machinery usage
- Phosphate finish
- Chrome molybdenum
- In durable plastic storage case

1/2"

			kg	
913.1290	4 pcs	Spiral profile impact socket set, extra deep	1,50	

consists of:

		g	
913.1291	Spiral profile impact socket, 1/2", 17mm	300	
913.1292	Spiral profile impact socket, 1/2", 19mm	320	
913.1293	Spiral profile impact socket, 1/2", 21mm	340	
913.1295	Impact bar, 1/2", for 913.1290	540	

SPIRAL SCREW AND BOLT EXTRACTORS

Spiral extractor

- Extra short execution
- With external drive hexagonal socket 13.0 mm
- Slightly conical tapered spiral
- Can also be used for broken screws and stud bolts
- Counter effect motion guarantees easy extraction
- Special tool steel

Application range: Hexagon head, brakes + Water pumps, Spline drives etc.

	D	L mm	g	
150.1371	1/8"	36,0	20	
150.1373	3/16"	36,0	20	
150.1375	1/4"	36,0	20	
150.1381	1/2"	36,0	20	
150.1386	3 mm	36,0	20	
150.1387	4 mm	36,0	20	
150.1388	5 mm	36,0	20	
150.1389	5,5 mm	36,0	30	
150.1390	6 mm	36,0	30	
150.1391	8 mm	36,0	30	
150.1392	10 mm	36,0	30	
150.1393	11 mm	36,0	30	
150.1394	12 mm	36,0	40	
150.1395	14 mm	36,0	40	

Captive bolt extractor set

- Extra short execution
- With external drive hexagonal socket 13.0 mm
- Slightly conical tapered spiral
- Can also be used for broken screws and stud bolts
- Counter effect motion guarantees easy extraction
- Special tool steel
- In durable plastic storage case

Application range: Hexagon head, brakes + water pumps, spline drives etc.

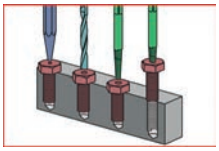
			g	
150.1385	15 pcs	Captive bolt extractor set	360	

consists of:

		g	
150.1371	Spiral extractor, 1/8"	20	
150.1373	Spiral extractor, 3/16"	20	
150.1375	Spiral extractor, 1/2"	20	
150.1381	Spiral extractor, 1/2"	20	
150.1386	Spiral extractor, 3mm	20	
150.1387	Spiral extractor, 4mm	20	
150.1388	Spiral extractor, 5mm	20	
150.1389	Spiral extractor, 5,5mm	30	
150.1390	Spiral extractor, 6mm	30	
150.1391	Spiral extractor, 8mm	30	
150.1392	Spiral extractor, 10mm	30	
150.1393	Spiral extractor, 11mm	30	
150.1394	Spiral extractor, 12mm	40	
150.1395	Spiral extractor, 14mm	40	

Screw extractor set

- For screws from M3 - M18
- Enable the loosening of screws and bolts with turned off heads
- Conical tapered spiral
- In durable plastic case



			g	
150.1330	6 pcs	M3-M6 - M6-M8 - M8-M11 - M11-M14 - M14-M18 - M18-M24	64	

consists of:

		g	
150.1330-1	Screw extractor M3-M6	4	
150.1330-2	Screw extractor M6-M8	7	
150.1330-3	Screw extractor M8-M11	13	
150.1330-4	Screw extractor M11-M14	22	
150.1330-5	Screw extractor M14-M18	40	
150.1330-6	Screw extractor M18-M24	100	

SPECIAL PROFILE EXTRACTOR

Special hexagon socket screw extractor bit

- Ideal for loosening and opening screws and bolts whose head is damaged or worn off
- Special, left-handed thread with conical tapered cutting edges
- For manual operation
- Special tool steel

1/4"

		L mm	g	
150.7061	HE1,5	50,0	12	
150.7062	HE2	50,0	12	
150.7063	HE2,5	50,0	14	
150.7064	HE3	50,0	16	
150.7065	HE4	50,0	16	
150.7066	HE5	50,0	16	
150.7067	HE6	50,0	16	
150.7068	HE8	38,0	20	
150.7069	HE10	38,0	24	

Special Torx Screw Extractor Bit

- Ideal for loosening and opening screws and bolts whose head is damaged or worn off
- Special, left-handed thread with conical tapered cutting edges
- TE10 to TE40 = 6.3 mm hexagonal
- TE50 to TE55 = 10.0 mm hexagonal
- For manual operation
- Special tool steel

1/4" 10 mm

		L mm	g	
150.7016	TE10	50,0	45	
150.7017	TE15	50,0	45	
150.7018	TE20	50,0	45	
150.7019	TE25	50,0	45	
150.7021	TE27	50,0	45	
150.7022	TE30	50,0	45	
150.7023	TE40	50,0	55	
150.7024	TE50	38,0	65	
150.7026	TE55	38,0	65	

Torx and hexagon socket screw extractor set

- Ideal for loosening and opening screws and bolts whose head is damaged or worn off
- Special left-hand cutting thread with tapered cutting edges for Torx screws and specially shaped extractors for hexagon socket screws
- Including TORSIONpower bits for Torx and hexagon socket screws
- Bits with torsion zone for cushioning of the torque peak
- Includes magnetic quick release bit holder and 1/2" socket adapter
- Colour-coded bits
- For manual operation
- Longer service life
- Nickel plated
- Special tool steel
- In durable plastic case

1/4" 10 mm

			g	
150.7060	34 pcs	Torx and hexagon socket screw extractor set	520	

consists of:

		g	
918.3505	1/4" TORSIONpower Bit Torx, 25mm, T10	4	
918.3510	1/4" TORSIONpower Bit Torx, 25mm, T15	4	
918.3515	1/4" TORSIONpower Bit Torx, 25mm, T20	4	
918.3520	1/4" TORSIONpower Bit Torx, 25mm, T25	4	
918.3525	1/4" TORSIONpower Bit Torx, 25mm, T27	5	
918.3530	1/4" TORSIONpower Bit Torx, 25mm, T30	5	
918.3535	1/4" TORSIONpower Bit Torx, 25mm, T40	6	
918.1271	1/2" Bit adaptor socket, for bits 10mm	40	
514.1113	1/4" Auto slimlock magnetic quick release bit holder, 65mm	30	
150.7016	1/4" Special Torx Screw Extractor Bit, TE10	45	
150.7017	1/4" Special Torx Screw Extractor Bit, TE15	45	
150.7018	1/4" Special Torx Screw Extractor Bit, TE20	45	
150.7019	1/4" Special Torx Screw Extractor Bit, TE25	45	
150.7021	1/4" Special Torx Screw Extractor Bit, TE27	45	
150.7022	1/4" Special Torx Screw Extractor Bit, TE30	45	
150.7023	1/4" Special Torx Screw Extractor Bit, TE40	55	
150.7024	10 mm special Torx Screw Extractor Bit, TE50	65	
150.7026	10 mm special Torx Screw Extractor Bit, TE55	65	
150.7061	1/4" special hexagonal screw extractor bit, HE 1.5	12	
150.7062	1/4" special hexagonal screw extractor bit, HE 2	12	
150.7063	1/4" special hexagonal screw extractor bit, HE 2.5	14	
150.7064	1/4" special hexagonal screw extractor bit, HE 3	16	
150.7065	1/4" special hexagonal screw extractor bit, HE 4	16	
150.7066	1/4" special hexagonal screw extractor bit, HE 5	16	
150.7067	1/4" special hexagonal screw extractor bit, HE 6	16	
150.7068	10 mm special hexagonal screw extractor bit, HE 8	20	
150.7069	10 mm special hexagonal screw extractor bit, HE 10	24	
918.3401	1/4" TORSIONpower Bit hexagonal, 25mm, 1,5mm	6	
918.3403	1/4" TORSIONpower Bit hexagonal, 25mm, 1,5mm	6	
918.3407	1/4" TORSIONpower Bit hexagonal, 25mm, 1,5mm	6	
918.3405	1/4" TORSIONpower Bit hexagonal, 25mm, 3mm	10	
918.3410	1/4" TORSIONpower Bit hexagonal, 25mm, 4mm	4	
918.3415	1/4" TORSIONpower Bit hexagonal, 25mm, 5mm	6	
918.3420	1/4" TORSIONpower Bit hexagonal, 25mm, 6mm	6	

KS TOOLS®

Innovation is
our mission!

WI-FI VIDEOSCOPE SETS

Wi-Fi video scope set with Ø 3.9 mm 0° HD front camera probe

- Easy to connect to your smartphone via Wi-Fi
- For Android smartphone (via Android System 4.4+) and iPhone IOS system (via IOS 8.0)
- 3.9 mm HD camera
- Cable-free and easy to set up
- Photos and videos are saved directly to your smartphone
- 4 adjustable mini LED lamps
- Mobile and network independent system
- Optimal handling through network or independent working
- Probes substantially stronger and less breakage, there no glass fiber cable
- Working temperature from -15°C to +50°C
- Excellent picture quality and viewing through special camera in the probe head
- Very good picture and video quality
- Picture reception in JPEG format
- Video records in MPEG4-format
- Versitile usage
- Transmitter with integrated battery, charging indicator light and light
- About 60 minutes of continuous operation possible
- Transmitter is charged via USB
- Including USB adapter, which allows the camera to be connected to a laptop or PC
- Included hook, magnet and mirrow

Technical data:

Operating time :	ca. 60 min
Operating temperature:	-15°C to +50°C
Bend radius:	15 mm
Protection class:	IP67
Camera resolution:	1600 x 1200 (YUV), 1280 x 720 (photograph) = 2.0 mega pixel
Aperture angle:	60°
Focused depth of field:	1 - 1,5 cm
Resistance:	Engine oil-resistant probe
Connection:	USB 2.0
Light source:	4 dimmable white mini LED lamps
Rechargeable battery:	3,7 V / 800 mAh
Battery technologie:	Lithium-ion

550.7520	7 pcs	Wi-Fi video scope set with Ø 3.9 mm 0° HD front camera probe	240	

consists of:

550.7511	Wi-Fi transmitter	50	
550.7522	Wi-Fi video scope set 0°, Ø 3.9 mm	23	
550.7527	Wi-Fi video scope telescopic holder for probe Ø 3.9 mm	55	
550.7516	USB adapter	7	
550.7523	Wi-Fi video scope hook attachment for probe Ø 3.9 mm	2	
550.7524	Wi-Fi video scope magnetic attachment for probe Ø 3.9 mm	3	
550.7526	Wi-Fi video scope mirror attachment for probe Ø 3.9 mm	2	

Wi-Fi video scope set with Ø 5.5 mm 0° HD front camera probe

- Easy to connect to your smartphone via Wi-Fi
- For Android smartphone (via Android System 4.4+) and iPhone IOS system (via IOS 8.0)
- 5.5mm HD camera
- Cable-free and easy to set up
- Photos and videos are saved directly to your smartphone
- 6 adjustable mini LED lamps
- Mobile and network independent system
- Optimal handling through network or independent working
- Probes substantially stronger and less breakage, there no glass fiber cable
- Working temperature from -15°C to +50°C
- Excellent picture quality and viewing through special camera in the probe head
- Very good picture and video quality
- Picture reception in JPEG format
- Video records in MPEG4-format
- Versitile usage
- Transmitter with integrated battery, charging indicator light and light
- About 60 minutes of continuous operation possible
- Transmitter is charged via USB
- Including USB adapter, which allows the camera to be connected to a laptop or PC
- Included hook, magnet and mirrow

Technical data:

Operating time :	ca. 60 min
Operating temperature:	-15°C to +50°C
Bend radius:	15 mm
Protection class:	IP67
Camera resolution:	1600 x 1200 (YUV), 1280 x 720 (photograph) = 2.0 mega pixel
Aperture angle:	60°
Focused depth of field:	3 - 6 cm
Resistance:	Engine oil-resistant probe
Connection:	USB 2.0
Light source:	6 dimmable white mini LED lamps
Rechargeable battery:	3,7 V / 800 mAh
Battery technologie:	Lithium-ion

550.7510	7 pcs	Wi-Fi video scope set with Ø 5.5 mm 0° HD front camera probe	250	

consists of:

550.7511	Wi-Fi transmitter	50	
550.7512	Wi-Fi video scope set 0°, Ø 5.5 mm	180	
550.7513	Wi-Fi video scope telescopic holder for probe Ø 5.5 - 6.0 mm	55	
550.7516	USB adapter	7	
550.7517	Wi-Fi video scope hook attachment for probe Ø 5.5 mm	2	
550.7518	Wi-Fi video scope magnetic attachment for probe Ø 5.5 mm	3	
550.7519	Wi-Fi video scope mirror attachment for probe Ø 5.5 mm	2	

Wi-Fi video scope set with Ø 6.0 mm 0° and 90° HD front camera probe, switchable

- Easy to connect to your smartphone via Wi-Fi
- For Android smartphone (via Android System 4.4+) and iPhone IOS system (via IOS 8.0)
- 6.0mm HD camera
- Cable-free and easy to set up
- Photos and videos are saved directly to your smartphone
- 4 mini LED lamps
- Mobile and network independent system
- Optimal handling through network or independent working
- Probes substantially stronger and less breakage, there no glass fiber cable
- Working temperature from -15°C to +50°C
- Excellent picture quality and viewing through special camera in the probe head
- Very good picture and video quality
- Picture reception in JPEG format
- Video records in MPEG4-format
- Versitile usage
- Transmitter with integrated battery, charging indicator light and light
- About 60 minutes of continuous operation possible
- Transmitter is charged via USB
- Including USB adapter, which allows the camera to be connected to a laptop or PC

Technical data:

Operating time :	ca. 60 min
Operating temperature:	-15°C to +50°C
Bend radius:	15 mm
Protection class:	IP67
Camera resolution:	1600 x 1200 (YUV), 1280 x 720 (photograph) = 2.0 mega pixel
Aperture angle:	60°
Focused depth of field:	1 - 1,5 cm
Resistance:	Engine oil-resistant probe
Connection:	USB 2.0
Light source:	6 dimmable white mini LED lamps
Rechargeable battery:	3,7 V / 800 mAh
Battery technologie:	Lithium-ion

550.7540	4 pcs	Wi-Fi video scope set with Ø 6.0 mm 0° and 90° HD front camera probe, switchable	150	

consists of:

550.7511	Wi-Fi transmitter	50	
550.7541	Wi-Fi video scope set switchable, 0° and 00°, Ø 6.0 mm	31	
550.7513	Wi-Fi video scope telescopic holder for probe Ø 5.5 - 6.0 mm	55	
550.7516	USB adapter	7	

WI-FI VIDEOSCOPE ACCESSORIES

Wi-Fi transmitter

- Transmitter with integrated battery, charging indicator light and light
- About 60 minutes of continuous operation possible
- Transmitter is charged via USB
- for all Wi-Fi videoscopes

550.7511	Wi-Fi transmitter	50

Wi-Fi videoscope probe 0°, Ø 3.9 mm

- 4 adjustable mini LED lamps
- Bend radius max. 15 mm
- flexible PVC-casing
- Connectable to Wi-Fi videoscope 550.7511

Technical data probe:

Protection class:	IP67
Aperture angle:	60°
Camera resolution:	1600 x 1200 (YUV), 1280 x 720 (photograph) = 2.0 mega pixel
Focused depth of field:	1 - 1,5 cm
Operating temperature:	-15°C to +50°C
Light source:	6 dimmable white mini LED lamps

	Head Ø mm		Length mm	
550.7522	3,9	0	1005,0	23

Wi-Fi videoscope probe 0°, Ø 5.5 mm

- 6 adjustable mini LED lamps
- Bend radius max. 15 mm
- flexible PVC-casing
- Connectable to Wi-Fi videoscope 550.7511

Technical data probe:

Protection class:	IP67
Aperture angle:	60°
Camera resolution:	1600 x 1200 (YUV), 1280 x 720 (photograph) = 2.0 mega pixel
Focused depth of field:	3 - 6 cm
Operating temperature:	-15°C to +50°C
Light source:	6 dimmable white mini LED lamps

	Head Ø mm		Length mm	
550.7512	5,5	0°	1120,0	180

Wi-Fi videoscope probe switchable, 0° and 90°, Ø 6.0 mm

- with 2 single cameras and 2 light sources
- 6 adjustable mini LED lamps
- Bend radius max. 15 mm
- flexible PVC-casing
- Connectable to Wi-Fi videoscope 550.7511

Technical data probe:

Protection class:	IP67
Aperture angle:	60°
Camera resolution:	1600 x 1200 (YUV), 1280 x 720 (photograph) = 2.0 mega pixel
Focused depth of field:	1 - 1,5 cm
Operating temperature:	-15°C to +50°C
Light source:	6 dimmable white mini LED lamps

	Head Ø mm		Length mm	
550.7541	6,0	0 + 90	990,0	31

Wi-Fi videoscope telescope holder for probes Ø 3.9 mm

- With telescopic function
- Special tool steel
- for Wi-Fi videoscope probes with a head Ø of 3.9 mm
- for 550.7522

	Length mm	
550.7527	150 - 1150	55

Wi-Fi videoscope telescope holder for probes Ø 5.5 - 6.0 mm

- With telescopic function
- Special tool steel
- for Wi-Fi videoscope probes with a head Ø of 5.5 - 6.0 mm
- for 550.7512 and 550.7541

	Length mm	
550.7513	150 - 1150	55

Wi-Fi videoscope hook attachment for probe Ø 3.9 mm

- Special tool steel
- for Wi-Fi videoscope probes with a head Ø of 3.9 mm
- for 550.7522

	Head Ø mm	Length mm	
550.7523	3,9	77,0	2

Wi-Fi videoscope hook attachment for probe Ø 5.5 mm

- Special tool steel
- for Wi-Fi videoscope probes with a head Ø of 5.5 mm
- for 550.7512

	Head Ø mm	Length mm	
550.7517	5,5	77,0	2

Wi-Fi Videoscope Magnetic attachment for probes Ø 3.9 mm

- Special tool steel
- for Wi-Fi videoscope probes with a head Ø of 3.9 mm
- for 550.7522

	Head Ø mm	Length mm	
550.7524	3,9	78,0	3

Wi-Fi Videoscope Magnetic attachment for probes Ø 5.5 mm

- Special tool steel
- for Wi-Fi videoscope probes with a head Ø of 5.5 mm
- for 550.7512

	Head Ø mm	Length mm	
550.7518	5,5	78,0	3

Wi-Fi videoscope mirror attachment for probe Ø 3.9 mm

- Special tool steel
- for Wi-Fi videoscope probes with a head Ø of 3.9 mm
- for 550.7522

	Head Ø mm	Length mm	
550.7526	3,9	43,0	2

Wi-Fi videoscope mirror attachment for probe Ø 5.5 mm

- Special tool steel
- for Wi-Fi videoscope probes with a head Ø of 5.5 mm
- for 550.7512

	Head Ø mm	Length mm	
550.7519	5,5	43,0	2

USB adapter

- for all Wi-Fi videoscopes

550.7516	USB adapter	7

ULTIMATE*vision* MASTER VIDEOSCOPE SETS

ULTIMATE*vision* MASTER Videoscope set

- Adjustable function for the angle of vision through the one way sending device
- 3 adjustable Mini-LED-lamps
- Mobile and network independent system
- Optimal handling through network or independent working
- Probes substantially stronger and less breakage, there no glass fiber cable
- Working temperature of + 0 °C to +55 °C
- Excellent picture quality and viewing through special camera in the probe head
- Optionally expandable with other probes
- Very good picture and video quality
- Picture reception in JPEG format
- Video records in MPEG4-format
- View on a TV monitor with AV cable possible
- Multi lingual menu (14 languages)
- Versitile usage
- Incl. 4xAA batteries
- 2 component housing protects against light impacts
- With high quality foam protection material
- In durable plastic storage case

Scope of delivery:
- Basic unit
- AV cable
- 8 GB SD card
- USB data cable
- Battery set 4xAA
- Selected videoscope probe

Technical data hand held unit:

Screen:	3,5" TFT LCD VGA
Output format:	NTSC and PAL
Picture storage format:	AVI, JPG (640x480)
Storage medium:	SD card up to a max. 32 GB
Battery:	4 x AA
Operating time :	ca. 4 h
Operating temperature:	-20 °C to +60 °C
Language manual:	DE, EN, FR, ES, IT, DA, ZH, RU, NL, AR, JA, PL, BG

technical data sensor:

Bend radius:	min. 15 mm
Lens type:	aspherical
Camera protection:	designed out of sapphire glasse camera sheath made out of stainless steel
Protection class:	IP 67
Aperture angle:	horizontal 46° - vertical 34° - diagonal 56°
Camera resolution:	640 (H) x 480 (V) = 307,200 Pixel
Focused depth of field:	1 cm - 6 cm
AV Magnification:	is up to 15" over cinch
Resistance:	waterproof to a max. of 1m oil and petrol resistant probe
Mirror attachment:	line of vision 70° - aperture angle 40° line of vision 90° - aperture angle 36° line of vision 110° - aperture angle 32°
Light source:	2 dimmable white mini LED lamps
Brightness:	0 ~ 275 LUX / 4cm

consists of:

550.7999	ULTIMATEvision basic unit, 3, 5" LCD	340
550.5008	8 GB SD card	12
550.5003	AV cable, 1m	20
550.5018	USB data cable	30

ULTIMATE*vision* MASTER Videoscope set with 90° front camera probe, semi-rigid spiral shaft, 6-pcs.

Ø	1 m	2 m	3 m
3,9 mm	550.7391	550.7392	550.7393

ULTIMATE*vision* MASTER Videoscope set with 0° + 90° probe, reversible, 6-pcs.

Ø	1 m	2 m	3 m
4,9 mm	550.7049	550.7462	550.7463

ULTIMATE*vision* MASTER Videoscope set with 0° front camera probe, semi-rigid spiral shaft, 6-pcs.

Ø	1 m	2 m	3 m
5,5 mm	550.7055	550.7502	550.7503

ULTIMATE*vision* MASTER Videoscope set with 90° front camera probe, semi-rigid spiral shaft, 6-pcs.

Ø	1 m	2 m	3 m
5,5 mm	**550.7591**	**550.7592**	**550.7593**

ULTIMATE*vision* MASTER Videoscope set with 150°/0° camera probe, flexible PVC shaft 6-pcs.

Ø	1 m	2 m	3 m
6,0 mm	**550.7611**	**550.7612**	**550.7613**

ULTIMATE*vision* MASTER Videoscope set with 150°/90° front camera probe, flexible PVC shaft 6-pcs.

Ø	1 m	2 m	3 m
6,0 mm	**550.7621**		

ULTIMATE*vision* MASTER Videoscope set with 0° front camera probe, semi-rigid spiral shaft, 6-pcs.

Ø	1 m	2 m	3 m
8,5 mm	**550.7801**	**550.7802**	**550.7803**

ULTIMATE*vision* MASTER CAMERA PROBE

ULTIMATE*vision* Cable extension

- Cable diameter: 8.5 mm
- Connection diameter: 16 mm
- Universal for all ULTIMATE*vision* Videoscope applicable

	Length m		
550.7854	3,00	600	

ULTIMATE*vision* MASTER 90° front camera probe semi rigid spiral shaft

- 4 adjustable mini LED lamps
- Bend radius max. 15 mm
- Suitable for connection to ULTIMATE*vision* MASTER video-scope

Technical data probe:

Format:	semi rigid
Bend radius:	min. 15 mm
Lens type:	aspherical
Camera protection:	designed out of sapphire glasse camera sheath made out of stainless steel
Protection class:	IP 67
Aperture angle:	horizontal 46° - vertical 34° - diagonal 56°
Camera resolution:	320 (H) x 240 (V) = 76,800 Pixel
Focused depth of field:	1 cm - 6 cm
Operating temperature:	0°C to 75°C
AV Magnification:	is up to 15" over cinch
Resistance:	waterproof to a max. of 1m oil and petrol resistant probe
Light source:	4 dimmable white mini LED lamps
Brightness:	0 ~ 275 LUX / 4cm

	Head Ø mm		Length m	
550.7351	3,9	90°	1,00	180
550.7352	3,9	90°	2,00	250
550.7353	3,9	90°	3,00	320

ULTIMATE*vision* MASTER Camera probe reversible, 0° and 90°

- Contains 2 cameras and 2 independent light sources
- Bend radius max. 15 mm
- semi rigid spiral shaft
- The tip of the probe's head is threaded for convenient attachment of different accessories (mirror / hook / magnet)
- Compatible with KS Tools ULTIMATE*vision* MASTER video-scope

Technical data probe:

Format:	semi rigid
Bend radius:	min. 15 mm
Lens type:	aspherical
Camera protection:	designed out of sapphire glasse camera sheath made out of stainless steel
Aperture angle:	horizontal 46° - vertical 34° - diagonal 56°
Camera resolution:	640 (H) x 480 (V) = 307,200 Pixel
Focused depth of field:	1 cm - 6 cm
AV Magnification:	is up to 15" over cinch
Operating temperature:	+0°C to +60°C
Light source:	2 dimmable white mini LED lamps
Brightness:	0 ~ 275 LUX / 4cm

	Head Ø mm		Length m	
550.7491	4,9	0°/90°	1,00	105
550.7492	4,9	0°/90°	2,00	105
550.7493	4,9	0°/90°	3,00	105

ULTIMATE*vision* MASTER 0° front camera probe semi rigid spiral shaft

- 4 adjustable mini LED lamps
- Bend radius max. 15 mm
- Suitable for connection to ULTIMATE*vision* MASTER video-scope

Technical data probe:

Format:	semi rigid
Bend radius:	min. 15 mm
Lens type:	aspherical
Camera protection:	designed out of sapphire glasse camera sheath made out of stainless steel
Protection class:	IP 67
Aperture angle:	horizontal 46° - vertical 34° - diagonal 56°
Camera resolution:	320 (H) x 240 (V) = 76,800 Pixel
Focused depth of field:	1 cm - 6 cm
Operating temperature:	0°C to 75°C
AV Magnification:	is up to 15" over cinch
Resistance:	waterproof to a max. of 1m oil and petrol resistant probe
Light source:	4 dimmable white mini LED lamps
Brightness:	0 ~ 275 LUX / 4cm

	Head Ø mm		Length m	g	
550.7551	5,5	0°	1,00	140	
550.7552	5,5	0°	2,00	140	
550.7553	5,5	0°	3,00	140	

ULTIMATE*vision* MASTER 90° front camera probe semi rigid spiral shaft

- 4 adjustable mini LED lamps
- Bend radius max. 15 mm
- Suitable for connection to ULTIMATE*vision* MASTER video-scope

Technical data probe:

Format:	semi rigid
Bend radius:	min. 15 mm
Lens type:	aspherical
Camera protection:	designed out of sapphire glasse camera sheath made out of stainless steel
Protection class:	IP 67
Aperture angle:	horizontal 46° - vertical 34° - diagonal 56°
Camera resolution:	320 (H) x 240 (V) = 76,800 Pixel
Focused depth of field:	1 cm - 6 cm
Operating temperature:	0°C to 75°C
AV Magnification:	is up to 15" over cinch
Resistance:	waterproof to a max. of 1m oil and petrol resistant probe
Light source:	4 dimmable white mini LED lamps
Brightness:	0 ~ 275 LUX / 4cm

	Head Ø mm		Length m	g	
550.7571	5,5	90°	1,00	230	
550.7572	5,5	90°	2,00	200	
550.7573	5,5	90°	3,00	400	

ULTIMATE*vision* MASTER front camera probe 150°/0° flexible PVC shaft

- 4 adjustable mini LED lamps
- Bend radius max. 15 mm
- Suitable for connection to ULTIMATE*vision* MASTER video-scope

Technical data probe:

Format:	flexible PVC casing
Bend radius:	min. 15 mm
Lens type:	aspherical
Camera protection:	designed out of sapphire glasse camera sheath made out of stainless steel
Operating temperature:	+0°C to +55°C
Line of vision:	0°, revolving in 2 directions each to 150°
Aperture angle:	horizontal 46° - vertical 34° - diagonal 56°
Camera resolution:	320 (H) x 240 (V) = 76,800 Pixel
Focused depth of field:	1 cm - 6 cm
AV Magnification:	is up to 15" over cinch
Light source:	4 dimmable white mini LED lamps
Brightness:	0 ~ 275 LUX / 4cm

	Head Ø mm		Length m	g	
550.7602	6,0	150°/0°	2,00	180	
550.7603	6,0	150°/0°	3,00	220	

ULTIMATE*vision* MASTER 0° front camera probe semi rigid spiral shaft

- 6 adjustable mini LED lamps
- Bend radius max. 30 mm
- Suitable for connection to ULTIMATE*vision* MASTER video-scope

Technical data probe:

Format:	semi rigid
Bend radius:	min. 30 mm
Lens type:	aspherical
Camera protection:	designed out of sapphire glasse camera sheath made out of stainless steel
Protection class:	IP 67
Aperture angle:	horizontal 46° - vertical 34° - diagonal 56°
Camera resolution:	320 (H) x 240 (V) = 76,800 Pixel
Focused depth of field:	1 cm - 6 cm
Operating temperature:	+0°C to +55°C
AV Magnification:	is up to 10" over cinch
Resistance:	waterproof to a max. of 1m oil and petrol resistant probe
Mirror attachment:	line of vision 90° - aperture angle 36°
Light source:	6 dimmable white mini LED lamps
Brightness:	0 ~ 420 LUX / 4 cm

	Head Ø mm		Length m	g	
550.7851	8,5	0°	1,00	140	
550.7852	8,5	0°	2,00	140	
550.7853	8,5	0°	3,00	140	

ULTIMATE*vision* MASTER videoscope set with sensor drum

- Probe with dimensionally stable pushrod
- Flexible probe head for optimum bend flexibility
- 8 dimmable white mini LED lamps
- Mobile and network independent system
- Abrasion resistant, spring sheathed probe head shaft
- Excellent picture quality and viewing through special camera in the probe head
- Very good picture and video quality
- 1.5 times digital zoom function
- Horizontal picture reflection function
- Picture reception in JPEG format
- Video records in MPEG4-format
- View on large monitor with AV cable
- Data transfer directly through USB cable possible
- SD port for SD card
- Multi lingual menu (14 languages)
- Wide range of applications in pipes and shafts
- 2 Component housing protects against light impacts
- Including meter counter
- In durable plastic storage case

Contents:
Sensor drum with pushrod + camera head
Basic unit ULTIMATE vision MASTER
Meter counter
2 GB SD card

Technical data hand held unit:

Screen:	3,5" TFT LCD VGA
Output format:	NTSC and PAL
Picture storage format:	AVI, JPG (640x480)
Storage medium:	SD card up to a max. 32 GB
Battery:	4 x AA
Operating time :	ca. 4 h
Operating temperature:	-20°C to +60°C
Language manual:	DE, EN, FR, ES, IT, DA, ZH, RU, NL, AR, JA, PL, BG
Length:	24,3 mm
Ø:	28,0 mm

Technical data probe head:

Aperture angle:	diagonal 150.8°
Camera resolution:	320 (H) x 240 (V) = 76,800 Pixel
Focused depth of field:	10 ~ ∞ mm
AV Magnification:	is up to 15" over cinch
Light source:	8 dimmable white mini LED lamps
Brightness:	33 Lux
Operating temperature:	-20°C to +60°C
Camera protection:	designed out of sapphire glasse camera sheath made out of stainless steel
Bend radius:	max. 30 mm
Application:	40-100mm - 90° bend flexibility above Ø50mm

Technical data drum with pushrod:

Length:	30,00 m
Ø:	6 mm
Bend radius:	min. 150 mm
Operating temperature:	-10°C up tp +70°C
Protection class:	IP 65
Drum Ø:	300 mm

			kg	
550.7221	3 pcs	ULTIMATE*vision* MASTER videoscope set with sensor drum	10,60	

Aluminium adaptor for videoscope

- for use with 500.7221

	Ø mm	Length mm	g
550.7229	50,0	36,0	61

Brush for videoscope

- for use with 500.7221
- For centric use of the camera

	DN	Length mm	g
550.7228	100	150,0	64
550.7227	150	150,0	151

ULTIMATE*vision* MASTER PROBE ACCESSORIES

ULTIMATE*vision* MASTER 2 in 1 Magnet sleeve + hook attachment

- Suitable for connection to ULTIMATE*vision* MASTER videoscope

	Head Ø mm	g
550.7459	4,9	2

ULTIMATE*vision* MASTER Mirror attachment

- Suitable for connection to ULTIMATE*vision* MASTER videoscope

	Head Ø mm		g
550.7555	5,5	70°	3
550.7556	5,5	90°	3
550.7557	5,5	110°	3

ULTIMATE*vision* MASTER Magnet sleeve

- Suitable for connection to ULTIMATE*vision* MASTER videoscope

	Head Ø mm	g
550.7559	5,5	2

ULTIMATE*vision* MASTER Hook attachment

- Suitable for connection to ULTIMATE*vision* MASTER videoscope

	Head Ø mm	g
550.7558	5,5	2

ULTIMATE*vision* MASTER Mirror attachment

- Suitable for connection to ULTIMATE*vision* MASTER videoscope

	Head Ø mm		g
550.7857	8,5	70°-110°	2

ULTIMATE*vision* MASTER Magnet sleeve

- Suitable for connection to ULTIMATE*vision* MASTER videoscope

	Head Ø mm	g
550.7859	8,5	3

ULTIMATE*vision* MASTER Hook attachment

- Suitable for connection to ULTIMATE*vision* MASTER videoscope

	Head Ø mm	g
550.7858	8,5	2

SUPERCHARGED

ULTIMATE*vision* SUPERCHARGED VIDEOSCOPE SETS

ULTIMATE*vision* SUPERCHARGED Videoscope set

- Adjustable function for the angle of vision through the one way sending device
- 3 adjustable Mini-LED-lamps
- Mobile and network independent system
- Optimal handling through network or independent working
- Probes substantially stronger and less breakage, there no glass fiber cable
- Working temperature of + 0°C to +55°C
- Excellent picture quality and viewing through special camera in the probe head
- Optionally expandable with other probes
- Very good picture and video quality
- Picture reception in JPEG format
- Video records in MPEG4-format
- View on a TV monitor with AV cable possible
- Multi lingual menu (14 languages)
- Versitile usage
- Incl. 4xAA batteries
- 2 component housing protects against light impacts
- With high quality foam protection material
- In durable plastic storage case

Scope of delivery:
- Basic unit
- Mirror attachment
- AV cable
- 8 GB SD card
- USB data cable
- Battery set 4xAA
- Selected videoscope probe

Technical data hand held unit:

Screen:	3,5" TFT LCD VGA
Output format:	NTSC and PAL
Picture storage format:	AVI, JPG (640x480)
Storage medium:	SD card up to a max. 32 GB
Battery:	4 x AA
Operating time :	ca. 4 h
Operating temperature:	-20°C to +60°C
Language manual:	DE, EN, FR, ES, IT, DA, ZH, RU, NL, AR, JA, PL, BG

technical data sensor:

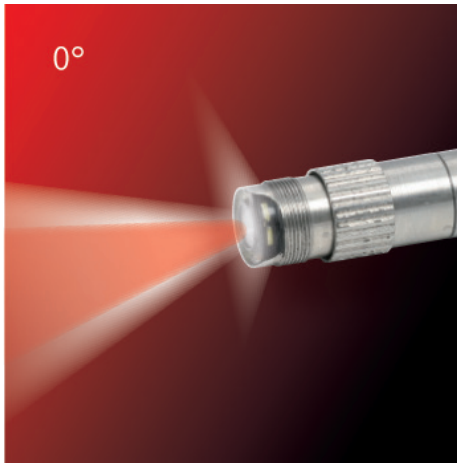
Bend radius:	min. 15 mm
Lens type:	aspherical
Camera protection:	designed out of sapphire glasse camera sheath made out of stainless steel
Protection class:	IP 67
Aperture angle:	horizontal 46° - vertical 34° - diagonal 56°
Camera resolution:	640 (H) x 480 (V) = 307,200 Pixel
Focused depth of field:	1 cm - 6 cm
AV Magnification:	is up to 15" over cinch
Resistance:	waterproof to a max. of 1m oil and petrol resistant probe
Mirror attachment:	line of vision 70° - aperture angle 40° line of vision 90° - aperture angle 36° line of vision 110° - aperture angle 32°
Light source:	2 dimmable white mini LED lamps
Brightness:	0 ~ 275 LUX / 4cm

consists of:

		g
550.7999	ULTIMATEvision basic unit, 3, 5" LCD	340
550.5008	8 GB SD card	12
550.5003	AV cable, 1m	20
550.5018	USB data cable	30

ULTIMATE*vision* SUPERCHARGED Videoscope set with 0° front camera probe, flexible spiral shaft, 7-pcs.

Ø	1 m	2 m	3 m
5,5 mm	**550.8055**	**550.8002**	



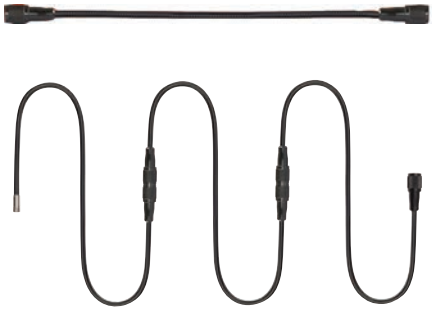
ULTIMATE*vision* SUPERCHARGED Videoscope set with 0° front camera probe, flexible PVC-shaft, 7 pcs.

Ø	1 m	2 m	3 m
6,0 mm	**550.8061**	**550.8062**	

ULTIMATE*vision* SUPERCHARGED CAMERA PROBE

ULTIMATE*vision* Cable extension

- Cable diameter: 8.5 mm
- Connection diameter: 16 mm
- Universal for all ULTIMATE*vision* Videoscope applicable



	Length m	
550.7854	3,00	600

ULTIMATE*vision* SUPERCHARGED 0° front camera probe flexible spiral shaft

- 4 adjustable mini LED lamps
- Bend radius max. 15 mm
- Suitable for connection to ULTIMATE*vision* SUPERCHARGED videoscope

Technical data probe:

Format:	flexible PVC casing
Bend radius:	min. 15 mm
Lens type:	aspherical
Camera protection:	designed out of sapphire glasse camera sheath made out of stainless steel
Protection class:	IP 67
Aperture angle:	horizontal 46° - vertical 34° - diagonal 56°
Camera resolution:	320 (H) x 240 (V) = 76,800 Pixel
Focused depth of field:	1 cm - 6 cm
Operating temperature:	0°C to 75°C
AV Magnification:	is up to 15" over cinch
Resistance:	waterproof to a max. of 1m oil and petrol resistant probe
Light source:	4 dimmable white mini LED lamps
Brightness:	0 ~ 275 LUX / 4cm

	Head Ø mm		Length m	
550.8551	5,5	0°	1,00	140
550.8552	5,5	0°	2,00	140

ULTIMATE*vision* SUPERCHARGED 0° front camera probe flexible PVC shaft

- 4 adjustable mini LED lamps
- Bend radius max. 15 mm
- Suitable for connection to ULTIMATE*vision* SUPERCHARGED videoscope

Technical data probe:

Format:	flexible PVC casing
Bend radius:	min. 15 mm
Lens type:	aspherical
Camera protection:	designed out of sapphire glasse camera sheath made out of stainless steel
Protection class:	IP 67
Aperture angle:	horizontal 46° - vertical 34° - diagonal 56°
Camera resolution:	320 (H) x 240 (V) = 76,800 Pixel
Focused depth of field:	1 cm - 6 cm
Operating temperature:	0°C to 75°C
AV Magnification:	is up to 15" over cinch
Resistance:	waterproof to a max. of 1m oil and petrol resistant probe
Mirror attachment:	line of vision 70° - aperture angle 40° line of vision 90° - aperture angle 36° line of vision 110° - aperture angle 32°

	Head Ø mm		Length m	
550.8601	6,0	150°	1,00	140
550.8602	6,0	150°	2,00	140

ULTIMATE*vision* SUPERCHARGED PROBE ACCESSORIES

ULTIMATE*vision* SUPERCHARGED Mirror attachment

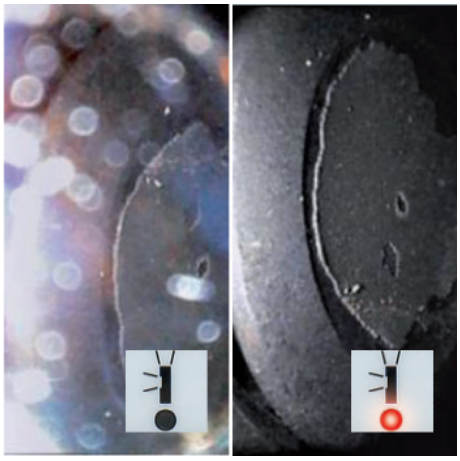
- Suitable for connection to ULTIMATE*vision* SUPERCHARGED videoscope

	Head Ø mm		
550.8555	5,5	70°	3
550.8556	5,5	90°	3
550.8557	5,5	110°	3

ULTIMATE*vision* SUPERCHARGED Hook attachment

- Suitable for connection to ULTIMATE*vision* SUPERCHARGED videoscope

	Head Ø mm	
550.8558	5,5	3



ULTIMATE*vision* SUPERCHARGED Mirror attachment

- Suitable for connection to ULTIMATE*vision* SUPERCHARGED videoscope

SUPERCHARGED

	Head Ø mm		g	
550.8605	6,0	70°	3	
550.8606	6,0	90°	3	
550.8607	6,0	110°	3	

GENERAL ACCESSORIES

AV cable

- Suitable for all ULTIMATE*vision* Videoscopes
- Does not transmit sound
- Available plugs: AV jack on video cinch

	Length m	g	
550.5003	1,00	20	

8 GB SD card

- Suitable for all ULTIMATE*vision* Videoscopes

		g	
550.5008	8 GB SD card	12	

USB-Data cable

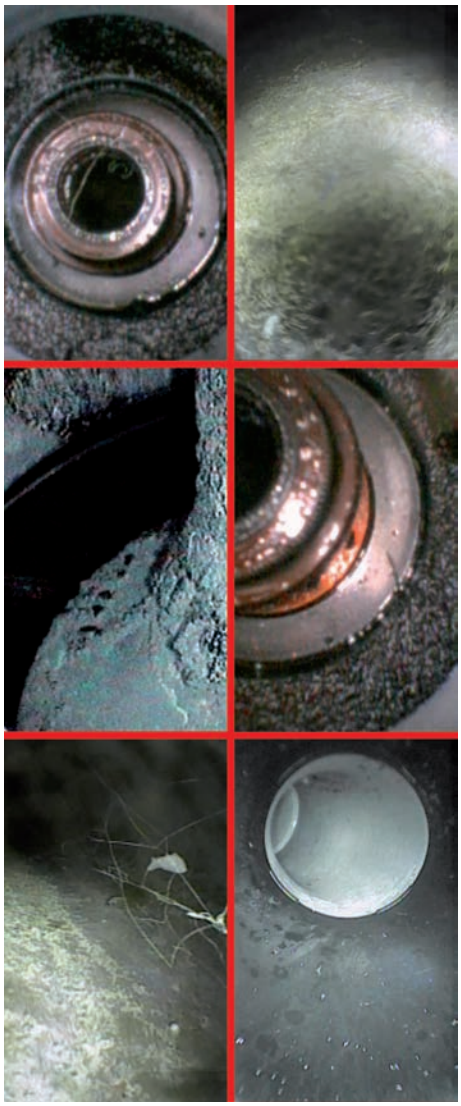
- Suitable for all ULTIMATE*vision* Videoscopes

		g	
550.5018	USB-Data cable	30	

Alcohol cleaning set

- Suitable for all ULTIMATE*vision* Videoscopes

		g	
550.7998	Alcohol cleaning set	50	



USB video grabber

- Just process the files and then burn DVDs, VCDs and more
- Live image broadcasting to TV and laptop
- Supports qualitative high-quality video resolution
- With video software
- Universal serial bus specification Rev.2.0
- NTSC, PAL, video format
- Video and audio input
- USB bus power

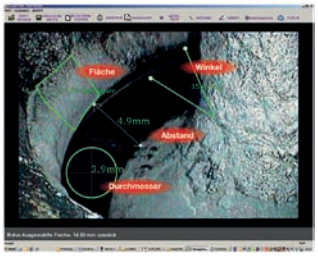
Technical data:

Main memory:	256 MB
Operating system:	Windows 2000, XP, 7, Vista 32 bit
Hard disc capacity:	50 MB (free)
USB port:	USB 2.0

		g	
550.8603	USB video grabber	135	

Measurement software

- Only usable in association with ULTIMATEvision MASTER videoscope with 0° 5,5 mm probe
- Ideal for bonding in technical documentation
- Only now with this software it is possible to correctly estimate, measure and interpret damages
- Measuring of angles
- Measuring of gaps
- Measurement of radius
- Calculation of arreas
- Saving of the arranged photos
- JPEG data format
- Contains distance blade in the delivery



		g	
550.5015	Measurement software	300	


KS TOOLS
Xtremelight
KS TOOLS
Xtremelight
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SLIMPOWER
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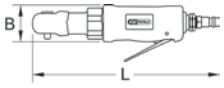
Innovation is
our mission!

REVERSIBLE RATCHET

SlimPOWER mini-pneumatic-reversing ratchet

- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Air exhaust through the handle rear end
- With ratchet head reversing lever (clockwise and anticlock-wise)
- Easy operation
- Triple teeth
- Stepless speed regulation
- Vibration dampened
- Very compact construction
- Includes 1/4" coupling connector
- Robust housing



1/4"

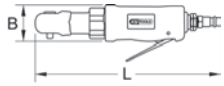
Technical data:

Square drive:	1/4
Max. tightening torque:	30 Nm
Max. loosening torque:	30 Nm
No load current:	300 r.p.m.
Vibration acceleration:	< 4,3 m/s²
Noise performance level:	98,1 dbA
Noise pressure level:	87,1 dbA
Recomended torque:	25 Nm
Air consumption:	240 l/min
Operating pressure:	max. 6,3 bar (90 psi)
Min. tube diameter:	3/8" - 10 mm
Connection thread:	1/4"NPT

	B mm	L mm	g
515.5505	35,5	135,0	400

SlimPOWER mini-pneumatic-reversing ratchet

- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Air exhaust through the handle rear end
- With ratchet head reversing lever (clockwise and anticlock-wise)
- Easy operation
- Triple teeth
- Stepless speed regulation
- Vibration dampened
- Very compact construction
- Includes 1/4" coupling connector
- Robust housing



3/8"

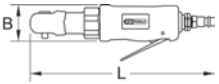
Technical data:

Square drive:	3/8"
Max. tightening torque:	30 Nm
Max. loosening torque:	30 Nm
No load current:	300 r.p.m.
Vibration acceleration:	< 4,3 m/s²
Noise performance level:	98,1 dbA
Noise pressure level:	87,1 dbA
Recomended torque:	25 Nm
Air consumption:	240 l/min
Operating pressure:	max. 6,3 bar (90 psi)
Min. tube diameter:	3/8" - 10 mm
Connection thread:	1/4"NPT

	B mm	L mm	g
515.5510	35,5	135,0	400

SlimPOWER mini-pneumatic-reversing ratchet

- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Air exhaust through the handle rear end
- With ratchet head reversing lever (clockwise and anticlock-wise)
- Easy operation
- Triple teeth
- Stepless speed regulation
- Vibration dampened
- Very compact construction
- Includes 1/4" coupling connector
- Robust housing



1/2"

Technical data:

Square drive:	1/2"
Max. tightening torque:	30 Nm
Max. loosening torque:	30 Nm
No load current:	300 r.p.m.
Vibration acceleration:	< 4,3 m/s²
Noise performance level:	98,1 dbA
Noise pressure level:	87,1 dbA
Recomended torque:	25 Nm
Air consumption:	240 l/min
Operating pressure:	max. 6,3 bar (90 psi)
Min. tube diameter:	3/8" - 10 mm
Connection thread:	1/4"NPT

	B mm	L mm	g
515.5515	35,5	135,0	400

MONSTER high-performance pneumatic ratchet screwdriver

- recoilless, gentle on wrists
- suitable for manual traction up to 271 Nm
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Air exhaust through the handle to the sides
- With ratchet head reversing lever (clockwise and anticlock-wise)
- Easy operation
- Stepless speed regulation
- Number of revolutions adjustable through regulating screw
- Vibration dampened
- Cold insulated handle
- Includes 1/4" coupling connector
- Ultra light robust housing special plastic

3/8"

Technical data:

Square drive:	3/8"
Max. tightening torque:	81 Nm
Max. loosening torque:	81 Nm
No load current:	300 r.p.m.
Vibration acceleration:	< 4,51 m/s²
Noise performance level:	103,6 dbA
Noise pressure level:	92,6 dbA
Air consumption:	60,3 l/min
Recomended torque:	60 Nm
Operating pressure:	max. 6,3 bar (90 psi)
Min. tube diameter:	3/8" - 10 mm
Connection thread:	1/4"PT

	B mm	L mm	kg
515.3825	50,0	340,0	1,42

MONSTER high-performance pneumatic ratchet screwdriver

- recoilless, gentle on wrists
- suitable for manual traction up to 350 Nm
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Air exhaust through the handle to the sides
- With ratchet head reversing lever (clockwise and anticlock-wise)
- Easy operation
- Stepless speed regulation
- Number of revolutions adjustable through regulating screw
- Vibration dampened
- Cold insulated handle
- Includes 1/4" coupling connector
- Ultra light robust housing special plastic

1/2"

Technical data:

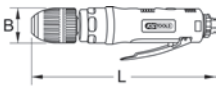
Square drive:	1/2"
Max. tightening torque:	81 Nm
Max. loosening torque:	81 Nm
No load current:	300 r.p.m.
Vibration acceleration:	< 4,51 m/s²
Noise performance level:	103,6 dbA
Noise pressure level:	92,6 dbA
Air consumption:	60,3 l/min
Recomended torque:	60 Nm
Operating pressure:	max. 6,3 bar (90 psi)
Min. tube diameter:	3/8" - 10 mm
Connection thread:	1/4"PT

	B mm	L mm	kg
515.1185	50,0	340,0	1,44

DIE & ANGLE DRILLING MACHINES

SlimPOWER mini-pneumatic straight drill

- Straight design
- Air exhaust through the handle rear end
- For one handed operation with ergonomic design
- Not reversible
- With quick-action drill chuck clamping width 0,6 - 6.0mm
- For hard to reach places
- Ideally suited for car bodywork and industial working
- Stepless speed regulation
- Vibration dampened through double bearing guides
- Very compact construction
- Includes 1/4" coupling connector
- Robust housing



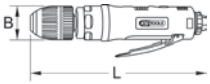
Technical data:

Chuck capacity:	0,6 - 6
Chuck thread reception:	3/8" x 24 UNF
Capacity:	186 Watt
No load current:	7000 r.p.m.
Vibration acceleration:	< 3,3 m/s²
Noise performance level:	97,4 dbA
Noise pressure level:	86,4 dbA
Air consumption:	240 l/min
Min. tube diameter:	3/8" - 10 mm
Operating pressure:	max. 6,3 bar (90 psi)
Connection thread:	1/4"NPT

	B mm	L mm	g
515.5520	35,5	145,0	400

Pneumatic straight drill

- Straight design
- Air exhaust through the handle rear end
- For one handed operation with ergonomic design
- Not reversible
- With quick release chuck capacity 0 - 10 mm
- For hard to reach places
- Ideally suited for car bodywork and industrial working
- Stepless speed regulation
- Number of revolutions adjustable through regulating screw
- Vibration dampened through double bearing guides
- Cold insulated handle
- Includes 1/4" coupling connector
- Ultra light robust housing special plastic



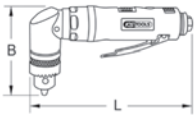
Technical data:

Chuck capacity:	1 - 10
Chuck thread reception:	3/8" x 24 UNF
Capacity:	370 Watt
No load current:	4000 r.p.m.
Vibration acceleration:	< 2,8 m/s²
Noise performance level:	101,7 dbA
Noise pressure level:	90,7 dbA
Air consumption:	350 l/min
Min. tube diameter:	3/8" - 10 mm
Operating pressure:	max. 6,3 bar (90 psi)
Connection thread:	1/4"NPT

	B mm	L mm	g
515.5435	46,0	225,0	900

SlimPOWER mini-pneumatic angle drill

- Angled design
- Air exhaust through the handle rear end
- For one handed operation with ergonomic design
- Not reversible
- With gear rim drill chuck – span width 1 – 6.5mm
- For hard to reach places
- Ideally suited for car body work
- Stepless speed regulation
- Vibration dampened through double bearing guides
- Includes 1/4" coupling connector
- Very compact construction
- Robust housing



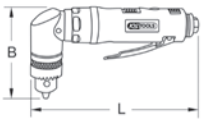
Technical data:

Chuck capacity:	0,6 - 6
Chuck thread reception:	3/8" x 24 UNF
Capacity:	186 Watt
No load current:	5000 r.p.m.
Vibration acceleration:	< 6,6 m/s²
Noise performance level:	99,3 dbA
Noise pressure level:	88,3 dbA
Air consumption:	240 l/min
Min. tube diameter:	3/8" - 10 mm
Operating pressure:	max. 6,3 bar (90 psi)
Connection thread:	1/4"NPT

	B mm	L mm	g
515.5525	90,0	145,0	700

Pneumatic angle drill

- Angled design
- With planetary gearing
- Air exhaust through the handle rear end
- For one handed operation with ergonomic design
- Not reversible
- With gear rim drill chuck width 0 - 10 mm
- For hard to reach places
- Ideally suited for car body work
- Stepless speed regulation
- Number of revolutions adjustable through regulating screw
- Vibration dampened through double bearing guides
- Cold insulated handle
- Includes 1/4" coupling connector
- Ultra light robust housing special plastic



Technical data:

Chuck capacity:	1 - 10
Chuck thread reception:	3/8" x 24 UNF
Capacity:	370 Watt
No load current:	1900 r.p.m.
Vibration acceleration:	< 3,5 m/s²
Noise performance level:	101,9 dbA
Noise pressure level:	90,9 dbA
Air consumption:	350 l/min
Min. tube diameter:	3/8" - 10 mm
Operating pressure:	max. 6,3 bar (90 psi)
Connection thread:	1/4"NPT

	B mm	L mm	g
515.5465	115,0	205,0	1070

SPOT WELD DRILLING MACHINES

Fastdrill pneumatic spot weld drill set

- Special drive for high torque
- With non slip soft grip handle
- Air exhaust through the handle
- Suitable for continuous duty
- Ideally suited for internal and external spot welds
- For carbide spot weld drills
- Detailed guide
- Revolving and removable frame to the fixation on the object
- Feed achievement through pneumatic-cylinder
- Stepless speed regulation
- Cold insulated handle
- Includes 1/4" coupling connector
- Robust machined housing

Technical data:

Drive in mm	8 mm
Capacity:	280 Watt
No load current:	1000 r.p.m.
Vibration acceleration:	< 0,72 m/s²
Noise performance level:	95,4 dbA
Noise pressure level:	82,4 dbA
Air consumption:	340 l/min
Operating pressure:	6 bar
Min. tube diameter:	3/8" - 10 mm
Connection thread:	1/4"PT

			kg
515.1310	3 pcs	Fastdrill pneumatic spot weld drill set	2,40

consists of:

		kg
515.1311	Fastdrill pneumatic spot weld drill	1,85
515.1312	Bracket, small, for Fastdrill	0,55
515.1314	T-handle wrench	0,04

PIN & DIE GRINDERS

Pneumatic pencil grinder, 70.000 rpm

- Straight design
- Air exhaust through the used air tube
- Ideal for carbide, corundum and tungsten carbide burrs
- For working in hard to access areas
- Very handy and compact construction
- Suitable for different repair works
- With stepless speed regulation
- Vibration dampened
- Cold insulated handle
- Includes 1/4" coupling connector and chuck wrench
- Aluminium housing

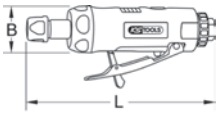
Technical data:

Tube length:	1 m
Tube diameter:	5 mm
Chuck capacity:	3 mm
Capacity:	150 KW
No load current:	70000 r.p.m.
Vibration acceleration:	< 0,80 m/s²
Noise performance level:	86 dbA
Noise pressure level:	74 dbA
Air consumption:	140 l/min
Operating pressure:	max. 6,3 bar (90 psi)
Min. tube diameter:	1/4" - 6,35 mm
Connection thread:	1/4"PT

	D mm	L mm	g
515.3198	16,0	132,0	330

SlimPOWER mini-pneumatic die grinder, straight

- Straight design
- Air exhaust through the handle rear end
- For one handed operation with ergonomic design
- For HM mills, mini cutting discs and grinding heads with a 6 mm shaft
- Ideal for grinding, polishing and engraving work
- For working in hard to access areas
- Secure operation lever with locking device
- Stepless speed regulation
- Vibration dampened
- Very compact construction
- Includes 1/4" coupling connector
- Robust housing



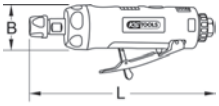
Technical data:

Chuck:	6 mm
Capacity:	220 Watt
No load current:	25000 r.p.m.
Vibration acceleration:	< 2,6 m/s²
Noise performance level:	95,6 dbA
Noise pressure level:	84,6 dbA
Air consumption:	283 l/min
Min. tube diameter:	3/8" - 10 mm
Operating pressure:	max. 6,3 bar (90 psi)
Connection thread:	1/4"NPT

	B mm	L mm	g
515.5530	35,0	123,0	300

Pneumatic die grinder

- Straight design
- Air exhaust through the handle rear end
- For one handed operation with ergonomic design
- For HM mills, mini cutting discs and grinding heads with a 6 mm shaft
- Ideal for grinding, polishing and engraving work
- For working in hard to access areas
- Very handy and compact construction
- Secure operation lever with locking device
- Number of revolutions adjustable through regulating screw
- Vibration dampened
- Cold insulated handle
- Includes 1/4" coupling connector
- Ultra light robust housing special plastic



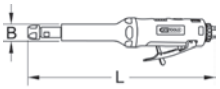
Technical data:

Chuck:	6 mm
Capacity:	370 Watt
No load current:	23000 r.p.m.
Vibration acceleration:	< 2,0 m/s²
Noise performance level:	101,1 dbA
Noise pressure level:	90,1 dbA
Air consumption:	350 l/min
Operating pressure:	max. 6,3 bar (90 psi)
Min. tube diameter:	3/8" - 10 mm
Connection thread:	1/4"NPT

	B mm	L mm	g
515.5410	45,0	188,0	620

Long shaft die grinder

- Straight design
- Air exhaust through the handle rear end
- For one handed operation with ergonomic design
- For HM mills, mini cutting discs and grinding heads with a 6 mm shaft
- Ideal for grinding, polishing and engraving work
- For working in deep lying areas
- Secure operation lever with locking device
- Stepless speed regulation
- Number of revolutions adjustable through regulating screw
- Vibration dampened
- Cold insulated handle
- Includes 1/4" coupling connector
- Ultra light robust housing special plastic



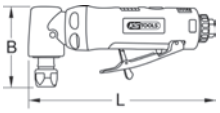
Technical data:

Chuck:	6 mm
Capacity:	370 Watt
No load current:	23000 r.p.m.
Vibration acceleration:	< 2,4 m/s²
Noise performance level:	102,6 dbA
Noise pressure level:	91,6 dbA
Air consumption:	350 l/min
Operating pressure:	max. 6,3 bar (90 psi)
Min. tube diameter:	3/8" - 10 mm
Connection thread:	1/4"NPT

	B mm	L mm	kg
515.5415	26,0	350,0	1,15

SlimPOWER mini-pneumatic angled die grinder

- Angled design
- Air exhaust through the handle rear end
- For one handed operation with ergonomic design
- For HM mills, mini cutting discs and grinding heads with a 6 mm shaft
- Ideal for grinding, polishing and engraving work
- For working in hard to access areas
- Secure operation lever with locking device
- Stepless speed regulation
- Vibration dampened
- Very compact construction
- Includes 1/4" coupling connector
- Robust housing



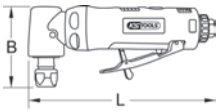
Technical data:

Chuck:	6 mm
Capacity:	220 Watt
No load current:	19000 r.p.m.
Vibration acceleration:	< 3,5 m/s²
Noise performance level:	97,9 dbA
Noise pressure level:	86,9 dbA
Air consumption:	283 l/min
Min. tube diameter:	3/8" - 10 mm
Operating pressure:	max. 6,3 bar (90 psi)
Connection thread:	1/4"NPT

	B mm	L mm	g
515.5535	75,0	123,0	300

SlimPOWER mini-pneumatic angled die grinder

- Angled design
- Air exhaust through the handle rear end
- For one handed operation with ergonomic design
- For HM mills, mini cutting discs and grinding heads with a 6 mm shaft
- Ideal for grinding, polishing and engraving work
- For working in hard to access areas
- Secure operation lever with locking device
- Stepless speed regulation
- Vibration dampened
- Very compact construction
- Includes 1/4" coupling connector
- Robust housing



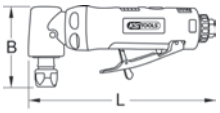
Technical data:

Chuck:	6 mm
Capacity:	220 Watt
No load current:	18000 r.p.m.
Vibration acceleration:	< 6,5 m/s²
Noise performance level:	97,8 dbA
Noise pressure level:	86,8 dbA
Air consumption:	283 l/min
Min. tube diameter:	3/8" - 10 mm
Operating pressure:	max. 6,3 bar (90 psi)
Connection thread:	1/4"NPT

	B mm	L mm	g
515.5540	70,0	270,0	700

Pneumatic angled die grinder

- Angled design
- Air exhaust through the handle rear end
- For one handed operation with ergonomic design
- For HM mills, mini cutting discs and grinding heads with a 6 mm shaft
- Ideal for grinding, polishing and engraving work
- For working in hard to access areas
- Secure operation lever with locking device
- Stepless speed regulation
- Number of revolutions adjustable through regulating screw
- Vibration dampened
- Cold insulated handle
- Includes 1/4" coupling connector
- Ultra light robust housing special plastic



Technical data:

Angle size:	80 mm
Chuck:	6 mm
Capacity:	370 Watt
No load current:	18000 r.p.m.
Vibration acceleration:	< 4,4 m/s²
Noise performance level:	101 dbA
Noise pressure level:	90,0 dbA
Air consumption:	350 l/min
Operating pressure:	max. 6,3 bar (90 psi)
Min. tube diameter:	3/8" - 10 mm
Connection thread:	1/4"NPT

	B mm	L mm	kg
515.5420	85,0	200,0	0,78

ROD GRINDER ACCESSORIES

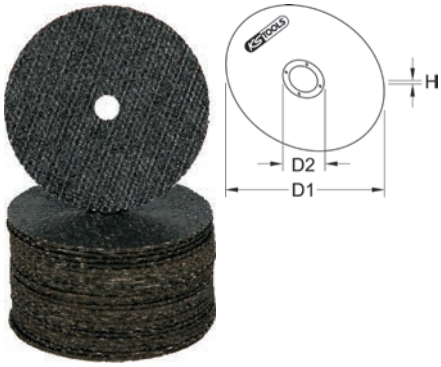
Clamping mandrel

- High performances thin disks
- Special tool steel

	Shank mm	Profile	g
515.3017	6,0	round	72

High performances thin cutting disk

- Exact and clean cut
- No deburring necessary
- Very short cutting times
- Machine load reduced
- Inox stainless steel

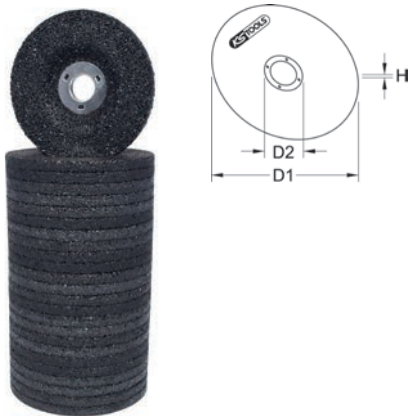


	RPM max	D1 mm	D2 mm	H mm	Content	g
515.5056	30600	50,0	10	1,1	50	650
337.2005	13300	50,0	6,0	1,0	25	100
515.5057	20100	75,0	10	1,5	50	710

Reinforced grinding disc

- For universal usage
- High level of flexibilty
- Consistent high cutting power

Ideal for use in metal and stainless steel.

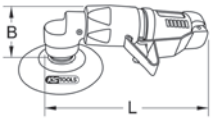


	RPM max	D1 mm	D2 mm	H mm	Content	g
515.5058	22000	59,0	9,56	4,0	25	600

GRINDING MACHINES

SlimPOWER mini-pneumatic grinding machine

- Angled design
- Air exhaust through the handle rear end
- For one hand operation
- Ideal for curved cutting
- For working in hard to access areas
- Secure operation lever with locking device
- Stepless speed regulation
- Vibration dampened
- Very compact construction
- Includes 1/4" coupling connector
- Receiver: External thread
- Robust housing
- Incl. three grinding discs



Technical data:

Capacity:	220 Watt
No load current:	19000 r.p.m.
Sponge diameter:	50 + 75 mm
Polishing sponge diameter:	46 mm
Vibration acceleration:	< 3,5 m/s²
Noise performance level:	96,8 dbA
Noise pressure level:	85,8 dbA
Air consumption:	283 l/min
Min. tube diameter:	3/8" - 10 mm
Operating pressure:	max. 6,3 bar (90 psi)
Connection thread:	1/4"NPT

	B mm	L mm	g
515.5585	40,0	120,0	300

Grinding disc

- With Velcro receiver
- With internal thread receiver

	Ø mm	Material	Content	g
515.5101	46,0	flexible	5	275
515.5102	75,0	flexible	5	125
515.5103	46,0	rigid	5	55

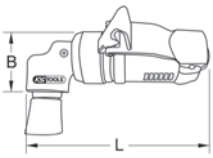
Grinding pads

- For polishing rough surfaces made from wood, metal, varnish and natural stone
- For breaking edges

	Ø mm	Grain	Content	g
515.5119	50,0	320	10	16
515.5116	75,0	320	10	19
515.5118	50,0	400	10	16
515.5115	75,0	400	10	19
515.5117	50,0	600	10	16
515.5114	75,0	600	10	19

SlimPOWER mini-pneumatic grinding machine for small pads

- Angled design
- Air exhaust through the handle rear end
- For one hand operation
- Ideal for curved cutting
- For working in hard to access areas
- Secure operation lever with locking device
- Stepless speed regulation
- Vibration dampened
- Very compact construction
- For screw in pads with 26.7 mm diameter
- Includes 1/4" coupling connector
- Receiver: Internal thread
- Robust housing



Technical data:

No load current:	19000 r.p.m.
Vibration acceleration:	< 3,5 m/s²
Noise performance level:	96,8 dbA
Noise pressure level:	85,8 dbA
Air consumption:	283 l/min
Min. tube diameter:	3/8" - 10 mm
Operating pressure:	max. 6,3 bar (90 psi)
Connection thread:	1/4"NPT

	B mm	L mm	
515.5570	65,0	120,0	300

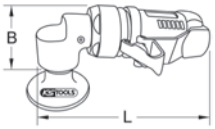
Grinding pads

- For polishing rough surfaces made from wood, metal, varnish and natural stone
- For breaking edges
- With external thread receiver

	Material	Ø mm	Grain	Colour code	Content	
515.5071		26,7	60	brown	10	10
515.5072		26,7	80	brown	10	20
515.5073		26,7	150	purple	10	20
515.5074		26,7	300	blue	10	20
515.5075	Strip Rad	26,7		black	10	25

SlimPOWER mini-pneumatic grinding machine for large pads

- Angled design
- Air exhaust through the handle rear end
- For one hand operation
- Ideal for curved cutting
- For working in hard to access areas
- Secure operation lever with locking device
- Stepless speed regulation
- Vibration dampened
- Very compact construction
- For screw in pads with 50.0 mm diameter
- Includes 1/4" coupling connector
- Receiver: Internal thread
- Robust housing



Technical data:

No load current:	19000 r.p.m.
Vibration acceleration:	< 3,5 m/s²
Noise performance level:	96,8 dbA
Noise pressure level:	85,8 dbA
Air consumption:	283 l/min
Min. tube diameter:	3/8" - 10 mm
Operating pressure:	max. 6,3 bar (90 psi)
Connection thread:	1/4"NPT

	B mm	L mm	
515.5580	70,0	120,0	300

Grinding pads

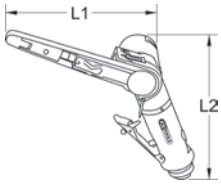
- For polishing rough surfaces made from wood, metal, varnish and natural stone
- For breaking edges
- With external thread receiver

	Material	Ø mm	Grain	Colour code	Content	
515.5081	Scouring wool	50,0		white	10	60
515.5083	Sand paper	50,0	80	brown	10	60
515.5084	Sand paper	50,0	150	purple	10	60
515.5082	Sand paper	50,0	240	brown	10	30
515.5085	Sand paper	50,0	300	blue	10	60
515.5086	Strip Rad	50,0		purple	10	100
515.5087	Strip Rad	50,0		black	10	100

BELT SANDER

Pneumatic belt grinder

- With non slip soft grip handle
- Air exhaust through the handle rear end
- Working head is 360° ajustable
- Adjustable for quick sanding belt change
- Ideal for narrow areas (10 mm belt width)
- Secure operation lever with locking device
- Stepless speed regulation
- Number of revolutions adjustable through regulating screw
- Vibration dampened
- Cold insulated handle
- Includes 1/4" coupling connector
- Light aluminium housing
- For sanding belts with a lenght of 330 mm



Technical data:

Belt speed:	1188 m/min
No load current:	18000 r.p.m.
Vibration acceleration:	< 1,01 m/s²
Noise performance level:	81 dbA
Noise pressure level:	73 dbA
Air consumption:	142 l/min
Operating pressure:	max. 6,3 bar (90 psi)
Min. tube diameter:	3/8" - 10 mm
Connection thread:	1/4"PT

	L1 mm	L2 mm	
515.3549	150,0	170,0	800

Abrasive belts for pneumatic belt grinders

- Abrasive belts for pneumatic belt grinders 515.3549

	Grain	Total length mm	Content	
515.3551	80	330	10	60
515.3552	100	330	10	80
515.3553	120	330	10	100

RANDOM ORBIT SANDERS

Mini orbit sander

- For hard to reach places and improvement work
- With non-slip soft-grip-handle
- Angled design
- Air exhaust through the handle rear end
- For one hand operation
- Ideal for curved cutting
- For working in hard to access areas
- Vibration dampened
- Includes ¼" coupling connector
- Receiver: Internal thread
- Robust housing
- Grinding disc with Velcro

Technical data:

Oscillating circuit:	2,5 mm
No load current:	15000 r.p.m.
Vibration acceleration:	< 0,77 m/s²
Noise performance level:	94 dbA
Noise pressure level:	81 dbA
Air consumption:	113 l/min
Operating pressure:	max. 5,2 bar
Min. tube diameter:	3/8" - 10 mm
Connection thread:	1/4"

	B mm	L mm	g
515.5111	140,0	117,0	700

Mini pneumatic random orbital sander set

- For hard to reach places and improvement work
- With non-slip soft-grip-handle
- Angled design
- Air exhaust through the handle rear end
- For one hand operation
- Ideal for curved cutting
- For working in hard to access areas
- Vibration dampened
- Very compact construction
- Includes ¼" coupling connector
- Receiver: Internal thread
- Robust housing
- Grinding disc with Velcro
- In durable plastic storage case

Technical data:

Oscillating circuit:	2,5 mm
No load current:	15000 r.p.m.
Vibration acceleration:	< 0,77 m/s²
Noise performance level:	94 dbA
Noise pressure level:	81 dbA
Air consumption:	113 l/min
Operating pressure:	max. 5,2 bar
Min. tube diameter:	3/8" - 10 mm
Connection thread:	1/4"

			kg
515.5110	63 pcs	Mini pneumatic random orbital sander set	1,45

consists of:

		g
515.5111	Mini random orbital sander	700
515.5119	Grinding pads, grit 320 Ø 50mm, pack of 10	16
515.5118	Grinding pads, grit 400 Ø 50mm, pack of 10	16
515.5117	Grinding pads, grit 600 Ø 50mm, pack of 10	16
515.5116	Grinding pads, grit 320 Ø 75mm, pack of 10	19
515.5115	Grinding pads, grit 400 Ø 75mm, pack of 10	19
515.5114	Grinding pads, grit 600 Ø 75mm, pack of 10	19
515.5113	Grinding disc Ø 46.0 mm	13
515.5112	Grinding disc Ø76.5 mm	20

Grinding disc

- With Velcro receiver
- With external thread receiver

	Ø mm	Material	Content	g
515.5113	46,0	flexible	5	13
515.5112	76,5	flexible	5	20

Grinding pads

- For polishing rough surfaces made from wood, metal, varnish and natural stone
- For breaking edges

	Ø mm	Grain	Content	g
515.5119	50,0	320	10	16
515.5116	75,0	320	10	19
515.5118	50,0	400	10	16
515.5115	75,0	400	10	19
515.5117	50,0	600	10	16
515.5114	75,0	600	10	19

Fine-sanding pneumatic random orbital sander with dust extraction

- Air exhaust through the used air tube
- With ergonomic design for fatigue free working
- Compact constuction height and light composite housing for controlled working
- For sanding or polishing
- Alternatively can be used with dust bag or industrial vacuum cleaner
- Includes fabric dust collection bag
- With 6 punched hole in pitch circle: 80 mm / Ø 11 mm
- Stepless speed regulation
- Cold insulated handle
- Includes 1/4" coupling connector
- Ultra light robust housing special plastic

Technical data:

Oscillating circuit:	2,5 mm
Velcro disc receiver:	Ø 152,4 mm = 6"
Tube length:	2 m
Capacity:	240 Watt
No load current:	10000 r.p.m.
Vibration acceleration:	< 0,80 m/s²
Noise performance level:	71 dbA
Noise pressure level:	60 dbA
Air consumption:	255 l/min
Operating pressure:	max. 6,3 bar (90 psi)
Min. tube diameter:	3/8" - 10 mm
Connection thread:	1/4"PT

	D mm	L mm	kg
515.3061	150,0	196,0	1,50

Coarse sanding pneumatic random orbital sander with dust extraction

- Air exhaust through the used air tube
- With ergonomic design for fatigue free working
- Compact constuction height and light composite housing for controlled working
- For sanding or polishing
- Alternatively can be used with dust bag or industrial vacuum cleaner
- Includes fabric dust collection bag
- With 6 punched hole in pitch circle: 80 mm / Ø 11 mm
- Stepless speed regulation
- Cold insulated handle
- Includes 1/4" coupling connector
- Ultra light robust housing special plastic

Technical data:

Oscillating circuit:	5 mm
Velcro disc receiver:	Ø 152,4 mm = 6"
Tube length:	2 m
Capacity:	240 Watt
No load current:	10000 r.p.m.
Vibration acceleration:	< 0,80 m/s²
Noise performance level:	71 dbA
Noise pressure level:	60 dbA
Air consumption:	225 l/min
Operating pressure:	max. 6,3 bar (90 psi)
Min. tube diameter:	1/4" - 6,35 mm
Connection thread:	1/4"PT

	D mm	L mm	g
515.3066	150,0	100,0	900

MULTIGRINDER

Pneumatic multi-grinder set

- For removing underbody coating, sealant, rust, corrosion, clingages, paints, films, text as well as for paint stripping
- With non slip soft grip handle
- For hard to reach places
- Air exhaust through the handle rear end
- Easy operation
- Ideal for grinding and erasing work
- For working in hard to access areas
- Vibration dampened
- Includes 1/4" coupling connector
- Robust housing
- In durable plastic storage case

Technical data:

No load current:	4000 r.p.m.
Vibration acceleration:	< 0,7 m/s²
Noise performance level:	100 dbA
Noise pressure level:	89,0 dbA
Air consumption:	350 l/min
Operating pressure:	max. 6,3 bar (90 psi)
Min. tube diameter:	3/8" - 10 mm
Connection thread:	1/4"NPT

			kg
515.5430	8 pcs	Pneumatic multi-grinder set	4,70

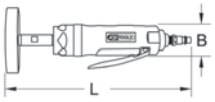
consists of:

		g
515.5431	Multi-grinder with handle, 212 mm	1400
515.5432	Film eraser, light execution, Ø100 mm	260
515.5433	Brush strip coarse	250
515.5434	Brush strip fine	325
515.5436	Attachment for brush strip	900
515.5437	Grinding wheel, pack of 2	80
515.5438	Attachment for grinding wheel	375

ERASER

Pneumatic erasing machine

- Straight design
- Air exhaust through the handle rear end
- For one handed operation with ergonomic design
- Ideal for removing of stickers glue and color remainders
- Stepless speed regulation
- Number of revolutions adjustable through regulating screw
- Vibration dampened
- Cold insulated handle
- Includes 1/4" coupling connector
- Ultra light robust housing special plastic



Technical data:

Tool holder:	5/16" - 24 mm
Capacity:	370 Watt
No load current:	4000 r.p.m.
Vibration acceleration:	< 1,6 m/s²
Noise performance level:	102,5 dbA
Noise pressure level:	91,5 dbA
Air consumption:	350 l/min
Operating pressure:	max. 6,3 bar (90 psi)
Min. tube diameter:	3/8" - 10 mm
Connection thread:	1/4"NPT

	B mm	L mm	Eraser wheels	kg
515.5445	45,0	200,0	515.1243	0,76

Mandrel for stripe removing pad

- with internal M8 thread
- Tension pin shaft Ø 6 mm
- for fastening film erasure discs on drilling machines

	size internal thread	Length mm	g
515.1218	M8	40,0	25

Stripe removing pad

- For removing of stickers, glue and color remainders on varnished areas
- Includes neutral colored rubber eraser preventing a smearing on the surface
- Not suitable for pneumatic die grinders

Technical data:

Speed:	4000 rpm
Shaft:	M8

	Width mm	Ø mm	Content	g
515.1243	15,0	90,0	1	110
515.1285	15,0	90,0	6	660

Stripe removing pad with lamellae

- For removing of stickers, glue and color remainders on varnished areas
- Includes neutral colored rubber eraser preventing a smearing on the surface
- Not suitable for pneumatic die grinders

Technical data:

Speed:	4000 rpm
Shaft:	M8

	Width mm	Ø mm	Content	kg
515.1247	24,0	100	1	0,29
515.1366	24,0	100	6	1,74

Stripe removing pad with lamellae

- For removing of stickers, glue and color remainders on varnished areas
- Includes neutral colored rubber eraser preventing a smearing on the surface
- Not suitable for pneumatic die grinders

Technical data:

Speed:	4000 rpm
Shaft:	M8

	Width mm	Ø mm	Content	g
515.1248	20,0	90	1	160
515.1368	20,0	90	6	960

Stripe removing pad with lamellae

- For removing of stickers, glue and color remainders on varnished areas
- Includes neutral colored rubber eraser preventing a smearing on the surface
- Not suitable for pneumatic die grinders

Technical data:

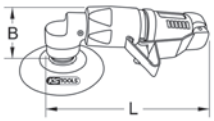
Speed:	4000 rpm
Shaft:	M8

	Width mm	Ø mm	Content	kg
515.1249	26,5	100	1	0,26
515.1369	26,5	100	6	1,56

BURNISHER

SlimPOWER mini-pneumatic burnisher

- Angled design
- Air exhaust through the handle rear end
- For one hand operation
- Ideal for curved cutting
- For working in hard to access areas
- Secure operation lever with locking device
- Stepless speed regulation
- Vibration dampened
- Very compact construction
- Receiver: External thread
- Includes 3 Velcro receivers
- Includes 1/4" coupling connector
- Robust housing



Technical data:

Capacity:	186 Watt
No load current:	5000 r.p.m.
Sponge diameter:	50 + 75 mm
Polishing sponge diameter:	46 mm
Vibration acceleration:	< 3,3 m/s²
Noise performance level:	96,9 dbA
Noise pressure level:	85,9 dbA
Air consumption:	240 l/min
Min. tube diameter:	3/8" - 10 mm
Operating pressure:	max. 6,3 bar (90 psi)
Connection thread:	1/4"NPT

	B mm	L mm	g
515.5590	55,0	140,0	600

Grinding disc

- With Velcro receiver
- With internal thread receiver

	Ø mm	Material	Content	g
515.5101	46,0	flexible	5	275
515.5102	75,0	flexible	5	125
515.5103	46,0	rigid	5	55

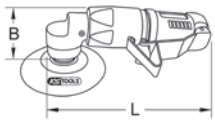
Burnishing pads

- For burnishing of smooth surfaces

	Ø mm	Material	Colour code	Content	g
515.5126	50,0	plastic	yellow	5	10
515.5122	85,0	plastic	yellow	5	55
515.5127	50,0	plastic	white	5	10
515.5123	85,0	plastic	white	5	55
515.5128	50,0	plastic	black	5	10
515.5129	50,0	leather		5	48
515.5124	80,0	leather		5	80

Pneumatic polisher

- Angled design
- Air exhaust through the handle rear end
- For one handed operation with ergonomic design
- Ideal for polishing work
- Secure operation lever with locking device
- Stepless speed regulation
- Vibration dampened
- Very compact construction
- Receiver: External thread
- Including 1 velcro holder Ø 75 mm
- Cold insulated handle
- Includes 1/4" coupling connector
- Ultra light robust housing special plastic



Technical data:

Capacity:	370 Watt
No load current:	3000 r.p.m.
Polishing sponge diameter:	85 mm
Vibration acceleration:	< 0,9 m/s²
Noise performance level:	103,2 dbA
Noise pressure level:	92,2 dbA
Air consumption:	350 l/min
Min. tube diameter:	3/8" - 10 mm
Operating pressure:	max. 6,3 bar (90 psi)
Connection thread:	1/4"NPT

	B mm	L mm	g
515.5455	9,0	210,0	1140

mini burnishing machine

- For hard to reach places and improvement work
- With non slip soft grip handle
- Angled design
- Air exhaust through the handle rear end
- For one hand operation
- Ideal for curved cutting
- For working in hard to access areas
- Vibration dampened
- Grinding disc with Velcro
- Robust housing
- Receiver: Internal thread

Technical data:

Capacity:	150 Watt
No load current:	2500 r.p.m.
Polishing sponge diameter:	75 mm
Vibration acceleration:	< 0,77 m/s²
Noise performance level:	92 dbA
Noise pressure level:	81 dbA
Air consumption:	113 l/min
Min. tube diameter:	3/8" - 10 mm
Operating pressure:	max. 5,2 bar
Connection thread:	1/4"

	B mm	L mm	g
515.5121	110,0	120,0	1000

Mini pneumatic burnisher set

- For hard to reach places and improvement work
- With non slip soft grip handle
- Angled design
- Air exhaust through the handle rear end
- For one hand operation
- Ideal for curved cutting
- For working in hard to access areas
- Vibration dampened
- Very compact construction
- Grinding disc with Velcro
- Includes 1/4" coupling connector
- Receiver: Internal thread
- Robust housing
- In durable plastic storage case

Technical data:

No load current:	2500 r.p.m.
Vibration acceleration:	< 0,77 m/s²
Noise performance level:	94 dbA
Noise pressure level:	81 dbA
Air consumption:	113 l/min
Operating pressure:	max. 5,2 bar
Min. tube diameter:	3/8" - 10 mm
Connection thread:	1/4"

			kg
515.5120	5 pcs	Mini pneumatic burnisher set	1,80

consists of:

		g
515.5121	1/4" mini burnishing machine	1000
515.5122	Burnishing pads yellow, Ø 85,0mm, pack of 5	55
515.5123	Burnishing pads white, Ø 85,0mm, pack of 5	55
515.5124	Burnishing pads lambskin Ø 80,0mm, pack of 5	80
515.5112	Grinding disc Ø76.5 mm	20

Grinding disc

- With Velcro receiver
- With external thread receiver

	Ø mm	Material	Content	g
515.5113	46,0	flexible	5	13
515.5112	76,5	flexible	5	20

Burnishing pads

- For burnishing of smooth surfaces

	Ø mm	Material	Colour code	Content	g
515.5126	50,0	plastic	yellow	5	10
515.5122	85,0	plastic	yellow	5	55
515.5127	50,0	plastic	white	5	10
515.5123	85,0	plastic	white	5	55
515.5128	50,0	plastic	black	5	10
515.5129	50,0	leather		5	48
515.5124	80,0	leather		5	80

Pneumatic polisher

- Handy and ergonomic housing
- Polishing with a fast and excellent work result
- Lateral handle for better guidance of the polisher
- Air exhaust through the handle to the sides
- For two-hand operation
- Stepless speed regulation
- Includes 1/4" coupling connector

Technical data:

Capacity:	450 Watt
No load current:	3500 r.p.m.
Sponge diameter:	150 mm
Polishing sponge diameter:	145 mm
Vibration acceleration:	< 1,20 m/s²
Noise performance level:	80 dbA
Noise pressure level:	91 dbA
Air consumption:	110 l/min
Min. tube diameter:	3/8" - 10 mm
Operating pressure:	max. 6,3 bar (90 psi)
Tool holder:	5/16" UNF
Connection thread:	1/4"

	H mm	B mm	L mm	g
515.3063	158,0	123,0	240,0	2200

CHISEL HAMMER

Pneumatic chisel hammer

- With non slip soft grip handle
- Air exhaust through the handle
- Ergonomic designed handle
- Universal application for work on exhaust systems
- With stepless impact regulation
- Vibration dampened
- Cold insulated handle
- Ultra light housing from two component plastic

Technical data:

Chisel holder:	10,2 mm
Number of blows:	2200 strokes/min
Vibration acceleration:	< 11,55 m/s²
Noise performance level:	100 dbA
Noise pressure level:	100 dbA
Air consumption:	114 l/min
Operating pressure:	max. 6,3 bar (90 psi)
Min. tube diameter:	3/8" - 10 mm
Connection thread:	1/4"NPT

	L mm	kg
515.3881	292,0	2,17

Vibro impact pneumatic chisel hammer set

- With non slip soft grip handle
- Air exhaust through the handle
- Ergonomic designed handle
- Ideal for industry
- Efficient, gentle loosening of screw fittings
- With stepless impact regulation
- Vibration dampened
- Cold insulated handle
- Includes 1/4" coupling connector
- Ultra light housing from two component plastic

Technical data:

Chisel holder:	10,2
Number of blows:	2200 strokes/min
Vibration acceleration:	< 11,55
Noise performance level:	100 dbA
Noise pressure level:	100 dbA
Air consumption:	114 l/min
Operating pressure:	max. 6,3 bar (90 psi)
Min. tube diameter:	3/8" - 10 mm
Connection thread:	1/4"NPT

			kg
515.3880	6 pcs	Vibro impact pneumatic chisel hammer set	5,70

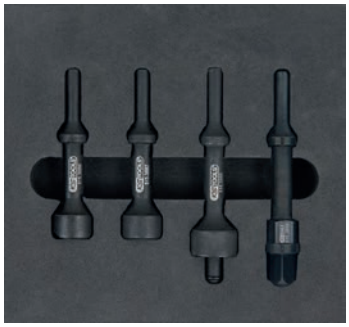
consists of:

		kg
515.3881	Pneumatic chisel hammer	2,17
515.3882	Holder for pneumatic chisel hammer	1,55
515.3886	Pneumatic chisel track rod loosener,110mm	0,14
515.3887	Pneumatic chisel hammer,110mm	0,15
515.3888	Pneumatic chisel loosening adapter,130mm	0,16
515.3889	Pneumatic chisel loosening mandrel,100x25x12mm	0,19

Vibro-Impact chisel set

- For loosening seized screw joints and loosening components
- Gentle peeling and driving
- Vibration is transmitted directly to the screw connections
- Impact mandrel attachment as ingenious aid to any removal operation
- For hexagonal and round 10 mm machine mountings
- Including pressure plate adapter for driving out bearings, sleeves, bushings

Caution: Use only in conjunction with a pneumatic hammer chisel!



			g
515.3885	4 pcs	Vibro-Impact chisel set	774

consists of:

		g
515.3886	Pneumatic chisel track rod loosener,110mm	138
515.3887	Pneumatic chisel hammer,110mm	148
515.3888	Pneumatic chisel loosening adapter,130mm	159
515.3889	Pneumatic chisel loosening mandrel,100x25x12mm	190

Impact tie rod tool

- Vibration supported release of tracking rods, contoured screws or screws in the axle area etc.
- Adjustable in connection with a pneumatic chisel hammer
- Thanks to the special vibrating mandrel, an impact impulse is given to the screws to be released
- which loosens the rust and aids the release process
- Pneumatic chisel adapter (10 mm) for use with pneumatic chisel hammers on the market
- Utilisation of vibration and shock pulse of Vibro Power pneumatic hammer
- Special tool steel

	Width mm	Length mm	opening mm	kg
150.1608	50,0	290,0	27,0	2,36

Vibro-Impact ball joint releaser

- Vibration supported release on ball joints
- Adjustable, e.g. conical seat connections to wheel bearing houses and wishbones
- Pneumatic chisel adapter (10 mm) for use with pneumatic chisel hammers on the market
- Utilisation of vibration and shock pulse of Vibro Power pneumatic hammer
- Special tool steel

	Length mm	Width mm	Height mm	Drive	g
515.3884	68,0	40,0	130,0	Ø 10 mm	340

Vibro-Impact punch

- Suitable for use with industry-standard percussion hammers (10.0 mm holder)
- Universal use for bodywork and chassis repair
- Extension of the working range
- Utilisation of vibration and shock pulse of Vibro Power pneumatic hammer
- Robust chisel forged out of one piece
- Special tool steel

Application: Cutting exhausts, loosening of ball joint, extracting bolts and cutting metal sheets

	Ø mm	g
515.3961	6,5	95

Vibro-Impact exhaust chisel

- Suitable for use with industry-standard percussion hammers (10.0 mm holder)
- Universal application for work on exhaust systems
- Specially designed sounds enable the exhaust pipe (inner or outer) to be replaced to be correctly separated from the remaining one, without damaging it.
- Rotatable
- Extension of the working range
- Utilisation of vibration and shock pulse of Vibro Power pneumatic hammer
- Robust chisel forged out of one piece
- Special tool steel

	Suitable for	g
515.3962	Internal pipe	190
515.3963	External pipe	190

Vibro-Impact sheet metal cutting tool with anti-rotation device

- Suitable for use with industry-standard percussion hammers (10.0 mm holder)
- Universal use for bodywork and chassis repair
- Extension of the working range
- Utilisation of vibration and shock pulse of Vibro Power pneumatic hammer
- Robust chisel forged out of one piece
- Special tool steel

Application: Cutting exhausts, loosening of ball joint, extracting bolts and cutting metal sheets

	Width mm	g
515.3964	20,0	160

Vibro-Impact flat chisel with anti-rotation device

- Suitable for use with industry-standard percussion hammers (10.0 mm holder)
- Universal use for bodywork and chassis repair
- Extension of the working range
- Utilisation of vibration and shock pulse of Vibro Power pneumatic hammer
- Robust chisel forged out of one piece
- Special tool steel

Application: Cutting exhausts, loosening of ball joint, extracting bolts and cutting metal sheets

	Width mm	g
515.3965	19,0	220

Vibro-Impact half-round chisel with anti-rotation device

- Suitable for use with industry-standard percussion hammers (10.0 mm holder)
- Universal use for bodywork and chassis repair
- Extension of the working range
- Utilisation of vibration and shock pulse of Vibro Power pneumatic hammer
- Robust chisel forged out of one piece
- Special tool steel

Application: Cutting exhausts, loosening of ball joint, extracting bolts and cutting metal sheets

	Width mm	g
515.3966	26,0	210

Vibro-Impact Separating Fork

- Suitable for use with industry-standard percussion hammers (10.0 mm holder)
- Universal use for bodywork and chassis repair
- Extension of the working range
- Utilisation of vibration and shock pulse of Vibro Power pneumatic hammer
- Robust chisel forged out of one piece
- Special tool steel

Application: Cutting exhausts, loosening of ball joint, extracting bolts and cutting metal sheets

		g
515.3967	Vibro Power fork separator 20mm	295
515.3968	Vibro Power fork separator 24mm	375
515.3969	Vibro Power fork separator 35mm	395

High-performance vibro-impact pneumatic chisel hammer

- With non slip handle
- Air exhaust through the handle
- Ergonomic designed handle
- Air exhaust integrated in the handle
- Ideal for industry
- Efficient, gentle loosening of screw fittings
- With stepless impact regulation
- Vibration dampened
- Cold insulated handle
- Includes 1/4" coupling connector
- Ultra light housing from two component plastic

Technical data:

Chisel holder:	15 mm
Number of blows:	2500 blows/min
Vibration acceleration:	20,4 m/s²
Noise performance level:	115 dbA
Noise pressure level:	104 dbA
Air consumption:	210 l/min
Operating pressure:	max. 6,3 bar (90 psi)
Connection thread:	1/4"NPT

		kg
515.4880	High-performance vibro-impact pneumatic chisel hammer	5,40

Vibro-Impact tie rod remover

- Pneumatic chisel adapter (15 mm) for use with pneumatic chisel hammers on the market
- Extension of the working range
- Utilisation of the vibration and impact impulse of the high-performance vibro-impact
- Robust chisel forged out of one piece
- Special tool steel

	Length mm	kg
515.4881	300,0	1,43

Vibro-Impact Flat Chisel, XL

- Pneumatic chisel adapter (15 mm) for use with pneumatic chisel hammers on the market
- Extension of the working range
- Utilisation of the vibration and impact impulse of the high-performance vibro-impact
- Robust chisel forged out of one piece
- Special tool steel

	Length mm	g
515.4882	300,0	670

Vibro-Impact hammer insert

- Pneumatic chisel adapter (15 mm) for use with pneumatic chisel hammers on the market
- Extension of the working range
- Utilisation of the vibration and impact impulse of the high-performance vibro-impact
- Robust chisel forged out of one piece
- Special tool steel

	Length mm	kg
515.4883	300,0	1,46

Vibro-Impact Pointed Chisel, XL

- Pneumatic chisel adapter (15 mm) for use with pneumatic chisel hammers on the market
- Extension of the working range
- Utilisation of the vibration and impact impulse of the high-performance vibro-impact
- Robust chisel forged out of one piece
- Special tool steel

	Length mm	g
515.4884	300,0	630

Vibro-Impact concave insert

- Pneumatic chisel adapter (15 mm) for use with pneumatic chisel hammers on the market
- Extension of the working range
- Utilisation of the vibration and impact impulse of the high-performance vibro-impact
- Robust chisel forged out of one piece
- Special tool steel

	Length mm	kg
515.4885	300,0	1,42

Vibro-Impact Drifters

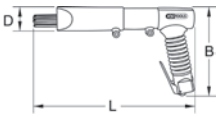
- Pneumatic chisel adapter (15 mm) for use with pneumatic chisel hammers on the market
- Extension of the working range
- Utilisation of the vibration and impact impulse of the high-performance vibro-impact
- Robust chisel forged out of one piece
- Special tool steel

	Length mm	Width mm	g
515.4886	235,0	20,0	550

NEEDLE SCALER

Pneumatic needle scaler

- In handy pistol design
- Air exhaust through the handle
- For removing and/or derusting of coatings and solid metal parts
- Is coarser than a sand balsting and finer than rust hammers
- Equipped with 19 needles of 3 mm a piece
- With adjustable needle cover
- Cold insulated handle
- Includes 1/4" coupling connector
- Robust steel housing



Technical data:

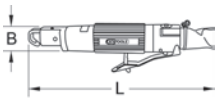
Needle amount:	19 pcs. à 3 mm
Number of blows:	3200 blows/min
Vibration acceleration:	< 8,70 m/s²
Noise performance level:	110 dbA
Noise pressure level:	97 dbA
Air consumption:	170 l/min
Operating pressure:	max. 6,3 bar (90 psi)
Min. tube diameter:	3/8" - 10 mm
Connection thread:	1/4"PT

	B mm	D mm	L mm	Replacement needle pack	kg
515.3070	205,0	45,0	330,0	515.3071	2,60

COMPRESSED AIR TOOLS

SlimPOWER mini-pneumatic reciprocating bodywork key hole saw

- Air exhaust through the used air tube to the rear
- For one hand operation
- For works in car body panels, beams and profile
- Secure operation lever with locking device
- Suitable for small sawing radius
- Stepless speed regulation
- Vibration dampened
- Very compact construction
- Includes 1/4" coupling connector
- Robust housing



Technical data:

Stroke:	7,9 mm
Cutting strokes:	5760 strokes/min
Capacity:	186 Watt
Vibration acceleration:	< 28,8 m/s²
Noise pressure level:	90,3 dbA
Noise performance level:	101,3 dbA
Air consumption:	240 l/min
Operating pressure:	max. 6,3 bar (90 psi)
Min. tube diameter:	3/8" - 10 mm
Connection thread:	1/4"NPT

	B mm	L mm		g
515.5545	36,0	170,0	129.3740-129.3746	500

Jigsaw blades

- Flexible and shatter proof
- ideal for non-ferrous metal, stainless steel, sheet steel, car body sheet, pressed materials and resopal

Suitable for: Ober, KS, Pneutec, CP, KS 515.3000 und 515.3200

	No. teeth	TPI	D mm	L mm	Content	g
129.3740	80	32	1,0	100,0	5	30
129.3742	60	24	1,0	100,0	5	30
129.3744	45	18	1,0	100,0	5	30
129.3746	35	14	2,0	100,0	5	30

Pneumatic oscillating cutter

- Angled design
- Air exhaust through the handle rear end
- For one handed operation with ergonomic design
- For the professional dismantling of vehicle discs
- Universal blade reception for all standard blades
- Stepless speed regulation
- Cold insulated handle
- Includes 1/4" coupling connector and blade changing spanner
- Ultra light robust housing special plastic

Technical data:

Oscillating speed:	20000
No load current:	20000 r.p.m.
Vibration acceleration:	< 14,8
Noise performance level:	103,7 dbA
Noise pressure level:	92,7 dbA
Air consumption:	350 l/min
Operating pressure:	max. 6,3 bar (90 psi)
Min. tube diameter:	3/8" - 10 mm
Connection thread:	1/4"NPT

	B mm	L mm	kg
515.5451	66,0	208,0	0,92

Pneumatic oscillating cutter set

- Angled design
- Air exhaust through the handle rear end
- For one handed operation with ergonomic design
- For the professional dismantling of vehicle discs
- Universal blade reception for all standard blades
- Stepless speed regulation
- Cold insulated handle
- Includes 1/4" coupling connector and blade changing spanner
- Ultra light robust housing special plastic
- In durable plastic storage case

Technical data:

Oscillating speed:	20000
No load current:	20000 r.p.m.
Vibration acceleration:	< 14,8 m/s²
Noise performance level:	103,7 dbA
Noise pressure level:	92,7 dbA
Air consumption:	350 l/min
Operating pressure:	max. 6,3 bar (90 psi)
Min. tube diameter:	3/8" - 10 mm
Connection thread:	1/4"NPT

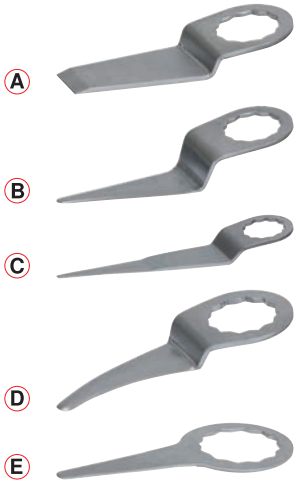
			kg
515.5450	6 pcs	Pneumatic oscillating cutter set	2,05

consists of:

		g
515.5451	Pneumatic oscillating cutter, 208mm	920
140.2252	Scraping blade offset, width 16mm	20
140.2255	Cutting blade straight, offset, 50mm	20
140.2256	Cutting blade straight, offset, 90mm	30
140.2261	Cutting blade angled, offset, depth 55mm	20
140.2263	Cutting blade straight, depth 35mm	10

Cutting / scraper blades

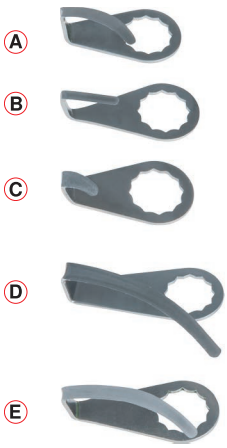
- For the pneumatic oscillating cutter
- Special tool steel



			g
140.2252	A	Scraping blade offset, width 16mm	20
140.2255	B	Cutting blade straight, offset, 50mm	20
140.2256	C	Cutting blade straight, offset, 90mm	30
140.2261	D	Cutting blade angled, offset, depth 55mm	20
140.2263	E	Cutting blade straight, depth 35mm	10

Cutting / scraper blades

- For the pneumatic oscillating cutter
- Special tool steel

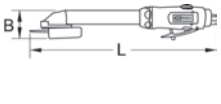


			g
515.5093	A	Scraper blade, curved, offset, blade length 18mm	13
515.5094	B	Scraper blade, curved, offset, blade length 36mm	13
515.5095	C	Scraper blade, curved, offset, blade length 63mm	13
515.5096	D	Scraper blade, curved, offset, blade length 90mm	25
515.5097	E	Scraper blade, curved, straight, blade length 24 mm	12

LONG-DISC CUTTER

SlimPOWER mini-pneumatic disc cutter, short

- Air exhaust through the handle rear end
- For cutting wheels up to Ø 50.4 x 1.1 x 9.5 mm
- For grinding wheels up to Ø 59.0 x 4.0 x 9.56mm
- Ideal for loosening worn down and/or rusted connections
- Adjustable sparkguard
- For working in inaccessible places
- Long service life
- Secure operation lever with locking device
- Stepless speed regulation
- Vibration dampened
- Very compact construction
- Includes 1/4" coupling connector
- Robust housing



Technical data:

Tool holder:	9,6 mm
Capacity:	220 Watt
No load current:	19000 r.p.m.
Vibration acceleration:	< 3,7 m/s²
Noise performance level:	95,4 dbA
Noise pressure level:	84,4 dbA
Air consumption:	283 l/min
Operating pressure:	max. 6,3 bar (90 psi)
Min. tube diameter:	3/8" - 10 mm
Connection thread:	1/4"NPT

	B mm	L mm	g
515.5550	60,0	125,0	400

SlimPOWER mini-pneumatic long-disc cutter

- Air exhaust through the handle rear end
- For cutting wheels up to Ø 75.0 x 1.35 x 9.56 mm
- Ideal for loosening worn down and/or rusted connections
- Fixed sparkguard
- For working in inaccessible places
- Long service life
- Secure operation lever with locking device
- Stepless speed regulation
- Vibration dampened
- Very compact construction
- Includes 1/4" coupling connector
- Robust housing

Technical data:

Tool holder:	9,6 mm
Capacity:	220 Watt
No load current:	18000 r.p.m.
Vibration acceleration:	< 2,8 m/s²
Noise performance level:	98,7 dbA
Noise pressure level:	87,7 dbA
Air consumption:	283 l/min
Operating pressure:	max. 6,3 bar (90 psi)
Min. tube diameter:	3/8" - 10 mm
Connection thread:	1/4"NPT

	B mm	L mm	g
515.5555	50,0	230,0	500

SlimPOWER mini-pneumatic disc cutter, long

- Air exhaust through the handle rear end
- For cutting wheels up to Ø 75.0 x 1.35 x 9.56 mm
- Ideal for loosening worn down and/or rusted connections
- Fixed sparkguard
- For working in inaccessible places
- Long service life
- Secure operation lever with locking device
- Stepless speed regulation
- Vibration dampened
- Very compact construction
- Includes 1/4" coupling connector
- Robust housing

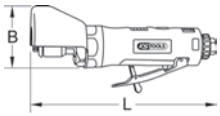
Technical data:

Tool holder:	9,6 mm
Capacity:	220 Watt
No load current:	18000 r.p.m.
Vibration acceleration:	< 3,2 m/s²
Noise performance level:	98,4 dbA
Noise pressure level:	87,4 dbA
Air consumption:	283 l/min
Operating pressure:	max. 6,3 bar (90 psi)
Min. tube diameter:	3/8" - 10 mm
Connection thread:	1/4"NPT

	B mm	L mm	g
515.5560	50,0	275,0	700

Pneumatic cut-off sander

- Air exhaust through the handle rear end
- For one handed operation with ergonomic design
- For cutting wheels up to Ø 75 mm x 10 mm
- With safety cover
- For cutting metal sheet and steel
- Secure operation lever with locking device
- For working in inaccessible places
- Stepless speed regulation
- Number of revolutions adjustable through regulating screw
- Vibration dampened
- Cold insulated handle
- Includes 1/4" coupling connector
- Ultra light robust housing special plastic



Technical data:

Capacity:	370 Watt
No load current:	23000 r.p.m.
Vibration acceleration:	< 6,2 m/s²
Noise performance level:	103,2 dbA
Noise pressure level:	92,2 dbA
Air consumption:	350 l/min
Operating pressure:	max. 6,3 bar (90 psi)
Min. tube diameter:	3/8" - 10 mm
Connection thread:	1/4"NPT

	B mm	L mm	kg
515.5440	85,0	200,0	0,82

Pneumatic short disc cutter

- Air exhaust through the handle rear end
- For cut-off wheels up to Ø 100 x 1.0 x 10mm
- Ideal for loosening worn down and/or rusted connections
- Adjustable sparkguard
- For working in inaccessible places
- Long service life
- Stepless speed regulation
- Number of revolutions adjustable through regulating screw
- Vibration dampened
- Cold insulated handle
- Includes 1/4" coupling connector
- Ultra light Aluminium housing

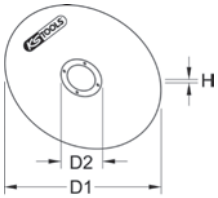
Technical data:

Tool holder:	6,3 mm
No load current:	15000 r.p.m.
Vibration acceleration:	< 5,8 m/s²
Noise performance level:	104,8 dbA
Noise pressure level:	93,8 dbA
Air consumption:	350 l/min
Operating pressure:	max. 6,3 bar (90 psi)
Min. tube diameter:	3/8" - 10 mm
Connection thread:	1/4"NPT

	B mm	L mm	Replacement cut off wheels	kg
515.5475	60,0	345,0	337.2010	1,41

High performances thin cutting disk

- Exact and clean cut
- No deburring necessary
- Very short cutting times
- Machine load reduced
- Inox stainless steel

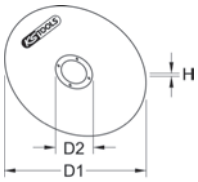


	RPM max	D1 mm	D2 mm	H mm	Content	g
515.5056	30600	50,0	10	1,1	50	650
515.5057	20100	75,0	10	1,5	50	710

High performances thin cutting disk

- Exact and clean cut
- No deburring necessary
- Very short cutting times
- Machine load reduced
- Inox stainless steel

Ideal for use in very thin materials until 2.5 mm, tool steel, sheet metal, thin walled pipes and profiles all type suited for locksmiths, car body building, sanitary and heating fitting, plumbing, sheet metal processing, carpentry, joinery, roofing, metal processing and all motor vehicles businesses.

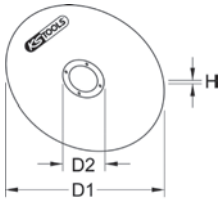


	RPM max	D1 mm	D2 mm	H mm	Content	kg
337.2010	15250	100,0	16,0	1,6	25	1,20

Reinforced grinding disc

- For universal usage
- High level of flexibilty
- Consistent high cutting power

Ideal for use in metal and stainless steel.



	RPM max	D1 mm	D2 mm	H mm	Content	g
515.5058	22000	59,0	9,56	4,0	25	600

PNEUMATIC VIBRO-EXTRACTOR

Glow plug pneumatic vibration screwdriver set

- Ideal for loosening and extracting jammed glow plugs
- Especially suitable in glow plugs jammed by corrosion and/ or soot coal
- Produces controlled vibration impulse
- Suitable for all current glow plugs
- Loosening torque in 4 stages in accordance with manufacturer guidelines
- Extensive cost intensive repairs can be avoided through dismantling glow plugs
- Includes 1/4" coupling connector
- In durable steel storage case

Technical data:

Square drive:	1/4"
Max. tightening torque:	40 Nm
Max. loosening torque:	1 = 10 Nm
	2 = 20 Nm
	3 = 30 Nm
	4 = 40 Nm
No load current:	7500 r.p.m.
Vibration acceleration:	< 2,52 m/s²
Noise performance level:	104 dbA
Noise pressure level:	88 dbA
Recomended torque:	42 Nm
Air consumption:	128 l/min
Operating pressure:	max. 6,3 bar (90 psi)
Max. screw size:	M16
Min. tube diameter:	3/8" - 10 mm
Connection thread:	1/4"PT

			kg
152.1060	5 pcs	Glow plug pneumatic vibration screwdriver set	1,80

consists of:

		g
152.1061	1/4" Vibration extractor 10-40 Nm	900
152.1062	1/4" Impact wrench socket long 8 mm	30
152.1063	1/4" Impact wrench socket long 10 mm	40
152.1064	1/4" Impact wrench socket long 12 mm	50
152.1065	1/4" Universal joint	40

IMPACT WRENCHES

MONSTER Xtremelight mini bit pneumatic impact driver with forward/reverse rocker

- Ideally suited for work in confined spaces
- With practical rocker switch (left / right)
- Easy operation
- 3 stage torque adjustment
- High performance pin hammer mechanism
- Vibration dampened
- Air connection can be swivelled through 150°
- Long service life
- Includes 1/4" coupling connector
- Robust housing

1/4"

Technical data:

Square drive:	1/4"
Max. tightening torque:	108 Nm
Max. loosening torque:	108 Nm
No load current:	12000 r.p.m.
Vibration acceleration:	7 m/s²
Noise performance level:	109 dbA
Noise pressure level:	98 dbA
Recomended torque:	79 Nm
Air consumption:	59 l/min
Operating pressure:	max. 6 bar
Min. tube diameter:	3/8" - 10 mm
Connection thread:	1/4"PT

	B mm	L mm	kg
515.3835	55,0	140,0	0,55

MONSTER Xtremelight mini pneumatic impact driver with forward/reverse rocker

- Ideally suited for work in confined spaces
- With practical rocker switch (left / right)
- Easy operation
- 3 stage torque adjustment
- High performance pin hammer mechanism
- Vibration dampened
- Air connection can be swivelled through 150°
- Long service life
- Includes 1/4" coupling connector
- Robust housing

1/4"

Technical data:

Square drive:	1/4"
Max. tightening torque:	108 Nm
Max. loosening torque:	108 Nm
No load current:	12000 r.p.m.
Vibration acceleration:	7 m/s²
Noise performance level:	109 dbA
Noise pressure level:	98 dbA
Recomended torque:	79 Nm
Air consumption:	59 l/min
Operating pressure:	max. 6 bar
Min. tube diameter:	3/8" - 10 mm
Connection thread:	1/4"PT

	B mm	L mm	kg
515.1470	55,0	140,0	0,55

MONSTER Xtremelight mini pneumatic impact driver with forward/reverse rocker

- Ideally suited for work in confined spaces
- With practical rocker switch (left / right)
- Easy operation
- 3 stage torque adjustment
- High performance pin hammer mechanism
- Vibration dampened
- Air connection can be swivelled through 150°
- Long service life
- Includes 1/4" coupling connector
- Robust housing

3/8"

Technical data:

Square drive:	3/8"
Max. tightening torque:	108 Nm
Max. loosening torque:	108 Nm
No load current:	12000 r.p.m.
Vibration acceleration:	7 m/s²
Noise performance level:	109 dbA
Noise pressure level:	98 dbA
Recomended torque:	79 Nm
Air consumption:	59 l/min
Operating pressure:	max. 6 bar
Min. tube diameter:	3/8" - 10 mm
Connection thread:	1/4"PT

	B mm	L mm	kg
515.3830	55,0	140,0	0,55

Noise reducing hose

- for BOXXER, miniMONSTER and MONSTER impact wrenches
- up to 40% sound absorption
- Minimum wear on coupling and plug nipple
- Minimal dust turbulence in the working area

		g
515.1211	Noise reducing hose	300

miniMONSTER High Performance Pneumatic impact wrench

- With non slip soft grip handle
- Air exhaust through the handle
- With practical clockwise and anticlockwise switch
- Easy operation
- 3 stage torque adjustment
- High performance industrial jumbo mechanism
- Long service life
- Cold insulated handle
- Includes 1/4” coupling connector
- Ultra light Aluminium housing

3/8"

Technical data:

Square drive:	3/8”
Max. tightening torque:	1 = 270 Nm
	2 = 640 Nm
	3 = 965 Nm
Max. loosening torque:	1390 Nm
No load current:	10000 r.p.m.
Vibration acceleration:	< 9,18 m/s²
Noise performance level:	113 dbA
Noise pressure level:	102 dbA
Recomended torque:	615 Nm
Air consumption:	135 l/min
Operating pressure:	max. 6,3 bar
Max. screw size:	M 16
Min. tube diameter:	3/8” - 10 mm
Connection thread:	1/4”PT

	B mm	L mm	kg
515.1190	95,0	190,0	1,34

miniMONSTER High Performance Pneumatic impact wrench

- With non slip soft grip handle
- Air exhaust through the handle
- With practical clockwise and anticlockwise switch
- Easy operation
- 3 stage torque adjustment
- High performance industrial jumbo mechanism
- Long service life
- Cold insulated handle
- Includes 1/4” coupling connector
- Ultra light Aluminium housing

1/2"

Technical data:

Square drive:	1/2
Max. tightening torque:	1 = 270 Nm
	2 = 640 Nm
	3 = 965 Nm
Max. loosening torque:	1390 Nm
No load current:	10000 r.p.m.
Vibration acceleration:	< 9,18 m/s²
Noise performance level:	113 dbA
Noise pressure level:	102 dbA
Recomended torque:	615 Nm
Air consumption:	135 l/min
Operating pressure:	max. 6,3 bar
Max. screw size:	M 16
Min. tube diameter:	3/8” - 10 mm
Connection thread:	1/4”PT

	B mm	L mm	kg
515.1270	95,0	190,0	1,34

Protective Cover for miniMONSTER

- suitable for Mini Monster Impact Wrenches 515.1190 and 515.1270
- Protective cover minimises damage from daily use to impact wrenches
- Transparent
- Silicon

		g
515.1272	for 515.1190 and 515.1270	50

MONSTER High performance pneumatic angle impact wrench

- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Air exhaust through the handle rear end
- Easy operation
- 2-fold torque preselection
- Ring in handle proximity for right / left running for better operating convenience
- High performance double hammer mechanism
- Vibration dampened
- Long service life
- Cold insulated handle
- Includes 1/4” coupling connector
- Ultra light robust housing special plastic

1/2"

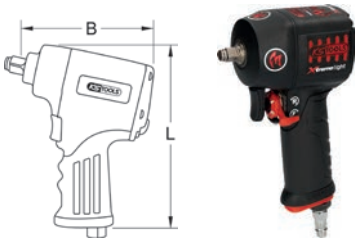
Technical data:

Square drive:	1/2”
Max. tightening torque:	271 Nm
Max. loosening torque:	271 Nm
No load current:	4150 r.p.m.
Vibration acceleration:	< 8,24 m/s²
Noise performance level:	105,4 dbA
Noise pressure level:	94,4 dbA
Air consumption:	105 l/min
Recomended torque:	244 Nm
Operating pressure:	max. 6,3 bar (90 psi)
Min. tube diameter:	3/8” - 10 mm
Connection thread:	1/4”PT

	B mm	L mm	kg
515.1625	55,5	350,0	1,57

miniMONSTER Xtremelight High Performance Pneumatic impact wrench

- With non slip soft grip handle
- Air exhaust through the handle
- With practical clockwise and anticlockwise switch
- Easy operation
- Easy to change lever for right and left handers
- 3 stage torque adjustment
- High performance industrial jumbo mechanism
- Long service life
- Cold insulated handle
- Includes 1/4” coupling connector
- Ultra light Aluminium housing



3/8"

Technical data:

Square drive:	3/8
Max. tightening torque:	1 = 270 Nm
	2 = 640 Nm
	3 = 965 Nm
Max. loosening torque:	1390 Nm
No load current:	10000 r.p.m.
Vibration acceleration:	< 9,18 m/s²
Noise performance level:	113 dbA
Noise pressure level:	102 dbA
Recomended torque:	615 Nm
Air consumption:	135 l/min
Operating pressure:	max. 6,3 bar
Max. screw size:	M 16
Min. tube diameter:	3/8” - 10 mm
Connection thread:	1/4”PT

	B mm	L mm	kg
515.3855	90,0	185,0	1,08

miniMONSTER Xtremelight High Performance Pneumatic impact wrench

- With non slip soft grip handle
- Air exhaust through the handle
- With practical clockwise and anticlockwise switch
- Easy operation
- Easy to change lever for right and left handers
- 3 stage torque adjustment
- High performance industrial jumbo mechanism
- Long service life
- Cold insulated handle
- Includes 1/4” coupling connector
- ultra light composite housing

1/2"

Technical data:

Square drive:	1/2”
Max. tightening torque:	1 = 270 Nm
	2 = 640 Nm
	3 = 965 Nm
Max. loosening torque:	1390 Nm
No load current:	10000 r.p.m.
Vibration acceleration:	< 9,18 m/s²
Noise performance level:	113 dbA
Noise pressure level:	102 dbA
Recomended torque:	615 Nm
Air consumption:	135 l/min
Operating pressure:	max. 6,3 bar
Max. screw size:	M 16
Min. tube diameter:	3/8” - 10 mm
Connection thread:	1/4”PT

	B mm	L mm	kg
515.1150	90,0	185,0	1,08

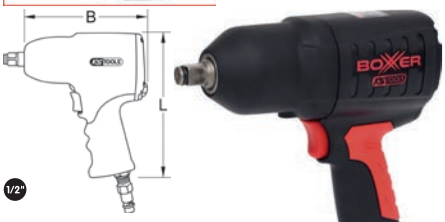
Protective Cover for miniMONSTER Xtremelight

- suitable for Mini Monster Xtremelight Impact Wrenches 515.1150 + 515.3855
- Protective cover minimises damage from daily use to impact wrenches
- Transparent
- Silicon

		g
515.1273	for 515.1150 + 515.3855	50

BOXXER High Performance Pneumatic impact wrench

- With non slip soft grip handle
- Air exhaust through the handle
- With practical clockwise and anticlockwise switch
- Easy operation
- 3 stage torque adjustment
- High performance double hammer mechanism
- Long service life
- Cold insulated handle
- Includes 1/4" coupling connector
- Ultra light aluminium housing



1/2"

Technical data:

Square drive:	1/2"
Max. tightening torque:	1 = 408 Nm 2 = 544 Nm 3 = 745 Nm
Max. loosening torque:	1290 Nm
Vibration acceleration:	< 13,56 m/s²
Measuring uncertainty vibration acceleration:	1,83 m/s²
No load current:	7930 r.p.m.
Noise performance level:	104 dbA
Noise pressure level:	88 dbA
Air consumption:	128 l/min
Operating pressure:	max. 6,3 bar (90 psi)
Min. tube diameter:	1/2" - 12,7 mm
Max. screw size:	M 16
Connection thread:	1/4"PT

	B mm	L mm	kg
515.1195	175,0	200,0	1,99

MONSTER Xtremelight High Performance Pneumatic impact wrench

- With non slip soft grip handle
- Air exhaust through the handle
- With practical clockwise and anticlockwise switch
- Easy operation
- 3 stage torque adjustment
- High performance double hammer mechanism
- Long service life
- Cold insulated handle
- Includes 1/4" coupling connector
- ultra light composite housing

1/2"

Technical data:

Square drive:	1/2"
Max. tightening torque:	1 = 510 Nm
Max. loosening torque:	1690 Nm
No load current:	7930 r.p.m.
Vibration acceleration:	< 17,9 m/s²
Noise performance level:	98 dbA
Noise pressure level:	87 dbA
Recomended torque:	542 Nm
Air consumption:	178 l/min
Operating pressure:	max. 6,3 bar
Min. tube diameter:	1/2" - 12,7 mm
Connection thread:	1/4"PT

	B mm	L mm	kg
515.1095	146,0	195,0	1,78

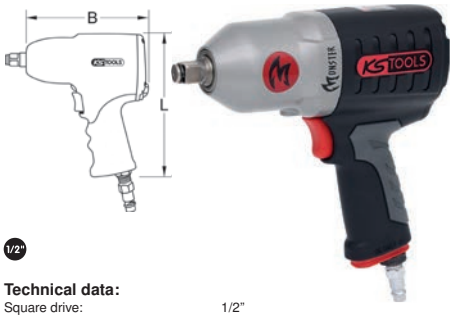
Protective Cover for MONSTER Xtremelight

- suitable for Monster Xtremelight impact wrenches 515.1095
- Protective cover minimises damage from daily use to impact wrenches
- Transparent
- Silicon

		g
515.1274	for 515.1095	50

MONSTER High Performance Pneumatic impact wrench

- With non slip soft grip handle
- Air exhaust through the handle
- With practical clockwise and anticlockwise switch
- Easy operation
- 3 stage torque adjustment
- High performance double hammer mechanism
- Long service life
- Cold insulated handle
- Includes 1/4" coupling connector
- Ultra light aluminium housing



1/2"

Technical data:

Square drive:	1/2"
Max. tightening torque:	1 = 510 Nm 2 = 680 Nm 3 = 931 Nm
Max. loosening torque:	1690 Nm
No load current:	7930 r.p.m.
Vibration acceleration:	< 17,9 m/s²
Noise performance level:	98 dbA
Noise pressure level:	87 dbA
Recomended torque:	542 Nm
Air consumption:	178 l/min
Operating pressure:	max. 6,3 bar
Max. screw size:	M 16
Min. tube diameter:	1/2" - 12,7 mm
Connection thread:	1/4"PT

	B mm	L mm	kg
515.1210	175,0	200,0	2,15

MONSTER High Performance Pneumatic impact wrench set

- With ergonomic soft grip handle
- Air exhaust through the handle
- With practical clockwise and anticlockwise switch
- Easy operation
- 3 stage torque adjustment
- High performance pin hammer mechanism
- Long service life
- Cold insulated handle
- Includes 1/4" coupling connector
- Light aluminium housing
- In durable plastic storage case

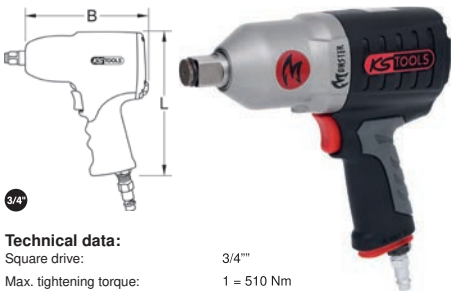
1/2"

			kg
515.5150	17 pcs	MONSTER High Performance Pneumatic impact wrench set	5,69

1 x		1690 Nm
10 x		12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 21 - 22 mm
3 x		17 - 19 - 21 mm
1 x		1/4"
1 x		125 mm
1 x		68 mm

MONSTER High Performance Pneumatic impact wrench

- With non slip soft grip handle
- Air exhaust through the handle
- With practical clockwise and anticlockwise switch
- Easy operation
- 3 stage torque adjustment
- High performance double hammer mechanism
- Long service life
- Cold insulated handle
- Includes 1/4" coupling connector
- Ultra light aluminium housing



3/4"

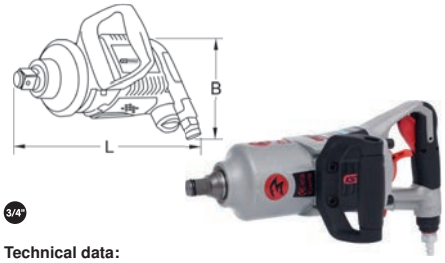
Technical data:

Square drive:	3/4""
Max. tightening torque:	1 = 510 Nm 2 = 680 Nm 3 = 931 Nm
Max. loosening torque:	1690 Nm
No load current:	7930 r.p.m.
Vibration acceleration:	< 13,56 m/s²
Noise performance level:	104 dbA
Noise pressure level:	88 dbA
Recomended torque:	542 Nm
Air consumption:	178 l/min
Operating pressure:	max. 6,3 bar
Max. screw size:	M 16
Min. tube diameter:	1/2" - 12,7 mm
Connection thread:	1/4"PT

	B mm	L mm	kg
515.3785	175,0	200,0	2,20

superMONSTER High Performance Pneumatic impact wrench

- With non-slip soft-grip handle
- Air exhaust through the handle
- Short anvil
- With four-stage torque adjustment for tightening and loosening
- Easy operation
- Low vibration
- Air exhaust integrated in the handle
- Low sound level
- High performance double hammer mechanism
- Including bore hole for locking pin
- Long service life
- Cold insulated handle
- Includes 1/2" coupling connector
- Ultra light aluminium housing



Technical data:

Square drive:	3/4"
Max. tightening torque:	1 = 919 Nm
	2 = 1523 Nm
	3 = 2145 Nm
Max. loosening torque:	3405 Nm
Vibration acceleration:	< 12,57 m/s²
Measuring uncertainty vibration acceleration:	1,73 m/s²
No load current:	6200 r.p.m.
Noise performance level:	104,5 dbA
Noise pressure level:	115,5 dbA
Air consumption:	283 l/min
Operating pressure:	max. 6,3 bar (90 psi)
Min. tube diameter:	3/4" - 19 mm
Max. screw size:	M 38
Connection thread:	1/2"PT

	B mm	L mm	kg
515.3250	230,0	350,0	6,70

superMONSTER High Performance Pneumatic impact wrench

- With non-slip soft-grip handle
- Air exhaust through the handle
- Long anvil
- With four-stage torque adjustment for tightening and loosening
- Easy operation
- Low vibration
- Air exhaust integrated in the handle
- Low sound level
- High performance double hammer mechanism
- Including bore hole for locking pin
- Long service life
- Cold insulated handle
- Includes 1/2" coupling connector
- Ultra light aluminium housing

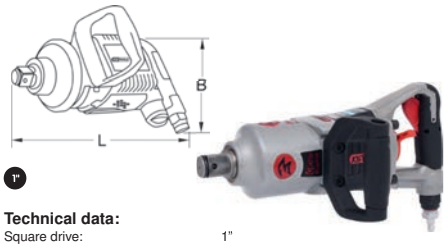
Technical data:

Square drive:	3/4"
Max. tightening torque:	1 = 919 Nm
	2 = 1523 Nm
	3 = 2145 Nm
Max. loosening torque:	3405 Nm
Vibration acceleration:	< 12,88 m/s²
Measuring uncertainty vibration acceleration:	1,77 m/s²
No load current:	6200 r.p.m.
Noise performance level:	104,5 dbA
Noise pressure level:	115,5 dbA
Air consumption:	283 l/min
Operating pressure:	max. 6,3 bar (90 psi)
Min. tube diameter:	3/4" - 19 mm
Max. screw size:	M 38
Connection thread:	1/2"PT

	B mm	L mm	kg
515.3260	230,0	504,0	7,76

superMONSTER High Performance Pneumatic impact wrench

- With non-slip soft-grip handle
- Air exhaust through the handle
- Short anvil
- With four-stage torque adjustment for tightening and loosening
- Easy operation
- Low vibration
- Air exhaust integrated in the handle
- Low sound level
- High performance double hammer mechanism
- Including bore hole for locking pin
- Long service life
- Cold insulated handle
- Includes 1/2" coupling connector
- Ultra light aluminium housing



Technical data:

Square drive:	1"
Max. tightening torque:	1 = 919 Nm
	2 = 1523 Nm
	3 = 2145 Nm
Max. loosening torque:	3405 Nm
Vibration acceleration:	< 12,57 m/s²
Measuring uncertainty vibration acceleration:	1,73 m/s²
No load current:	6200 r.p.m.
Noise performance level:	104,5 dbA
Noise pressure level:	115,5 dbA
Air consumption:	283 l/min
Operating pressure:	max. 6,3 bar (90 psi)
Min. tube diameter:	3/4" - 19 mm
Max. screw size:	M 38
Connection thread:	1/2"PT

	B mm	L mm	kg
515.3270	230,0	350,0	6,75

superMONSTER High Performance Pneumatic impact wrench

- With non-slip soft-grip handle
- Air exhaust through the handle
- Long anvil
- With four-stage torque adjustment for tightening and loosening
- Easy operation
- Low vibration
- Air exhaust integrated in the handle
- Low sound level
- High performance double hammer mechanism
- Including bore hole for locking pin
- Long service life
- Cold insulated handle
- Includes 1/2" coupling connector
- Ultra light aluminium housing

Technical data:

Square drive:	1"
Max. tightening torque:	1 = 919 Nm
	2 = 1523 Nm
	3 = 2145 Nm
Max. loosening torque:	3405 Nm
Vibration acceleration:	< 12,88 m/s²
Measuring uncertainty vibration acceleration:	1,77 m/s²
No load current:	6200 r.p.m.
Noise performance level:	104,5 dbA
Noise pressure level:	115,5 dbA
Air consumption:	283 l/min
Operating pressure:	max. 6,3 bar (90 psi)
Min. tube diameter:	3/4" - 19 mm
Max. screw size:	M 38
Connection thread:	1/2"PT

	B mm	L mm	kg
515.3280	230,0	504,0	7,82

RIVETING TOOLS PISTOL

Pneumatic riveting tool pistol

- Air exhaust through the handle rear end
- For one handed operation with ergonomic design
- For pop rivet working
- With swivel joint at the coupling connector for flexible use
- Cold insulated
- Includes 1/4" coupling connector
- Robust aluminium housing

Technical data:

Rivet sizes:	2,4 - 3,2 - 4,0 - 4,8 mm
Stroke length:	14 mm
Driving power:	8677,5 N
Vibration acceleration:	< 1,20 m/s²
Noise performance level:	98,6 dbA
Noise pressure level:	85 dbA
Air consumption:	1 l/Hub
Operating pressure:	max. 6,3 bar (90 psi)
Min. tube diameter:	3/8" - 10 mm
Connection thread:	1/4"PT

	B mm	L mm	kg
515.3102	195,0	290,0	1,50

Pneumatic riveting tool pistol

- Air exhaust through the handle rear end
- For one handed operation with ergonomic design
- For professional riveting, continuous operation
- For steel, aluminium, stainless steel or copper riveting up to 6,4 mm
- With 6 mouth pieces, 4,8 mm is pre assembled
- Especially low noise level
- Swivel joint at the connection thread for flexible use
- Cold insulated
- Includes 1/4" coupling connector
- Robust aluminium housing

Technical data:

Rivet sizes:	2,4 - 3,2 - 4 - 4,8 - 5,6 - 6,4mm
Stroke length:	19 mm
Driving power:	13839,5 N
Vibration acceleration:	< 0,60 m/s²
Noise performance level:	85 dbA
Noise pressure level:	73,3 dbA
Air consumption:	1,8 l/Hub
Operating pressure:	max. 6,3 bar (90 psi)
Min. tube diameter:	3/8" - 10 mm
Connection thread:	1/4"PT

	B mm	L mm	kg
515.3101	210,0	340,0	2,00

AXLE BOOTS ASSEMBLY DEVICES

Pneumatic assembly tool for CV joint boots

- Air exhaust through the handle rear end
- Suitable for all universal and original vehicle axle boots
- Also suitable for all-wheel vehicles and small transporters
- For drive shaft joint diameters from 25 - 115mm
- With 8 extremely robust spreader arms
- Spreading of the articulated arms by compressed air
- Air pressure is regulated through a button
- No additional lubricant necessary
- With integrated safety valve
- Includes 1/4" coupling connector
- Robust aluminium design

Technical data:

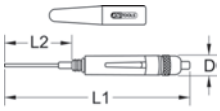
max. Expansion diameter:	25 - 115 mm
Operating pressure:	max. 8 bar
Min. tube diameter:	3/8" - 10 mm
Connection thread:	1/4"PT

	Width mm	Length mm	kg	
515.3100	200,0	450,0	2,27	

OILS & GREASES

Precision oiler

- In ball point pen form
- Practical pocket clip
- Protective cap
- Oil dosage through pushing a button
- Smallest angles and corners reached
- Suitable for a wide range of applications
- Light aluminium housing



	D mm	L1 mm	L2 mm	g	
550.1035	15,0	140,0	50,0	50	

Mini grease gun

- Grease gun for maintenance work
- Precise, exact dosage per pressure button with return spring
- For tubes
- Includes long, rigid nozzle
- Tube contents 100 g

Mini grease gun set

- Grease gun for maintenance work
- Precise, exact dosage per pressure button with return spring
- For exchangeable cartridges and bucket goods
- Includes long, rigid nozzle and an additional nozzle extension
- Tube contents 110 g

			g	
980.1095	3 pcs	Mini grease gun set	265	

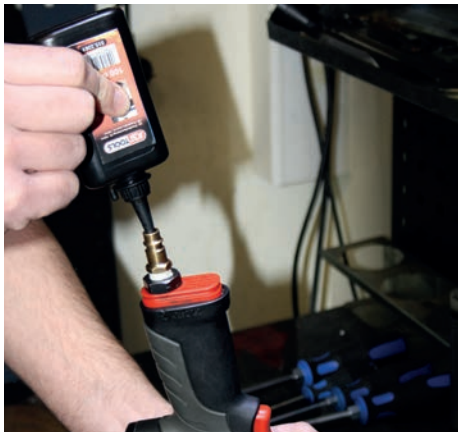
accessories:

		g	
980.1096	Lubricant for mini grease gun,110 g	110	
980.1097	Replacement tip for mini grease gun, 1 mm	1	
980.1098	Extension tube for mini grease gun, 120 mm	20	

Pneumatic tool oil

- For the lubrication of pneumatic tools
- With lockable nozzle

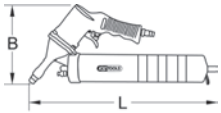
	Content	g	
515.3361	100 ml	250	
515.3362	1000 ml	1100	



GREASE GUN

Pneumatic grease gun for stroke by stroke conveyance of grease

- Air exhaust through the handle
- For one handed operation with balanced ergonomic design
- For cartridges and buckets and/or also for loose grease
- Includes flexible hose and nozzle
- Includes 1/4" coupling connector
- Grease feeding: one stroke per trigger actuation



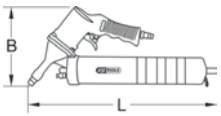
Technical data:

Output pressure:	260 bar
Output per stroke cm³:	1,30
Capacity:	400 g
Air consumption:	170 l/min
Operating pressure:	6,3 bar (90 psi)
Connection thread:	1/4"PT

	B mm	L mm	kg	
515.3900	165,0	400,0	1,50	

2in1 Pneumatic grease gun for stroke by stroke and constant conveyance of grease

- Air exhaust through the handle
- For one handed operation with balanced ergonomic design
- For cartridges and buckets and/or also for loose grease
- Including nozzle and flexible high-pressure hose
- Includes 1/4" coupling connector
- Adjuster wheel for switching between stroke by stroke and constant greasing
- Grease conveyance: One stroke per trigger operation or constant



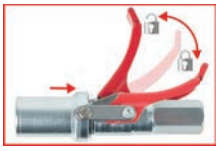
Technical data:

Output pressure:	331 bar
Hauling capacity:	0.62 cm³/min
Capacity:	450 g
Air consumption:	34 l/min
Operating pressure:	6,3 bar (90 psi)
Connection thread:	1/4"PT

	B mm	L mm	kg	
515.3925	177,0	420,0	1,43	

Quick-Lock coupling for grease guns

- Ideal for commercially available manual, battery operated and pneumatic grease guns
- Secure greasing during maintenance work without holding in place
- Uncoupling up to over 690 bar pressure possible
- No grease loss under high load operation
- No spraying when uncoupling
- Simple and secure loosening, even under high pressure through lever actuation
- For all common grease nipple types according to DIN and SAE
- With integrated check valve
- Integrated seal for long service life
- Very low wear
- With 4 hardened tool steel jaws

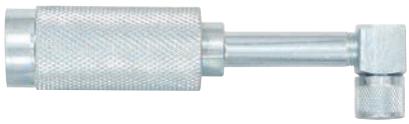


		Length mm	Height mm	g
980.1108	1/8"PT	74,0	38,0	100

90° Lubricant adaptor

- For standard hand, cordless and pneumatic grease guns
- Adaptor with sliding sleeve for break-proof connection
- Straight and angled grease nipple
- For grease nipples out of steel, brass and stainless steel

Application range: Tapered and ball grease nipples

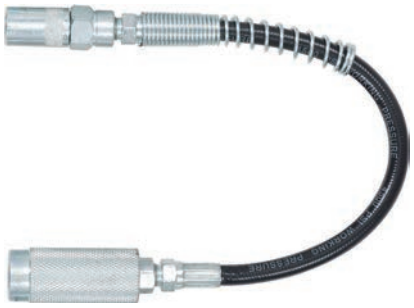


		Length mm	g
980.1101	1/8"PT	114,0	150

Tube extension

- For standard hand, cordless and pneumatic grease guns
- Adaptor with sliding sleeve for break-proof connection
- Straight and angled grease nipple
- For grease nipples out of steel, brass and stainless steel

Application range: Tapered and ball grease nipples



		Length mm	g
980.1102	1/8"PT	390,0	240

Extension, straight

- For standard hand, cordless and pneumatic grease guns
- Adaptor with sliding sleeve for break-proof connection
- Straight and angled grease nipple
- For grease nipples out of steel, brass and stainless steel

Application range: Cone, funnel, ball and flat grease nipples

		Length mm	g
980.1103	1/8"PT	155,0	230

90° flat nipple adaptor

- For standard hand, cordless and pneumatic grease guns
- Adaptor with sliding sleeve for break-proof connection
- Straight and angled grease nipple
- For grease nipples out of steel, brass and stainless steel

Application range: flat grease nipples

		Length mm	g
980.1104	1/8"PT	135,0	160

Rubber grease tip

- For standard hand, cordless and pneumatic grease guns
- Adaptor with sliding sleeve for break-proof connection
- Straight and angled grease nipple
- For grease nipples out of steel, brass and stainless steel

Application range: funnel grease nipples

		Length mm	g
980.1105	1/8"PT	155,0	150

Needle shaped tip

- For standard hand, cordless and pneumatic grease guns
- Adaptor with sliding sleeve for break-proof connection
- Straight and angled grease nipple
- For grease nipples out of steel, brass and stainless steel

Application range: funnel grease nipples

		Length mm	g
980.1106	1/8"PT	135,0	143

360° Adaptor, adjustable

- For standard hand, cordless and pneumatic grease guns
- Adaptor with sliding sleeve for break-proof connection
- Straight and angled grease nipple
- For grease nipples out of steel, brass and stainless steel

Application range: Tapered and ball grease nipples

		Length mm	g
980.1107	1/8"PT	185,0	265

Flexible hose with nozzle

- Made from rubber
- Includes four-jaw nozzle
- For use with the manually operated grease gun

		Total length mm	g
980.1011	1/8"PT	300,0	60
980.1012	1/8"PT	500,0	70

Nozzle

- Made from metal
- Four-jaw nozzle
- For use with the manually operated grease gun

		g
980.1013	1/8"PT	30

Nozzle extension

- Made from metal
- Includes four-jaw nozzle
- For use with the manually operated grease gun

		Total length mm	g
980.1014	1/8"PT	160,0	70

Grease gun adaptor set

- For standard hand, cordless and pneumatic grease guns
- Adaptor with sliding sleeve for break-proof connection
- Straight and angled grease nipple
- For grease nipples out of steel, brass and stainless steel

Application range: Cone, funnel, ball and flat grease nipples

			kg
980.1100	7 pcs	Grease gun adaptor set	1,99

consists of:

		Length mm	g
980.1101	90° Lubricant adaptor	114,0	150
980.1102	Tube extension, 300 mm	390,0	240
980.1103	Straight extension	155,0	230
980.1104	90° flat nipple adaptor	135,0	160
980.1105	Rubber grease tip	155,0	150
980.1106	Needle shaped tip	135,0	143
980.1107	360° Adaptor, adjustable	185,0	265

WHEEL FILLING GAUGE

Tyre filling gauge

- For one handed operation with ergonomic design
- with rubber-coated manometer
- manometer with bar and psi scale
- With filling lever and pressure release button
- long hose with integrated moment plug nipple
- With hanging hole
- Includes 1/4" coupling connector
- Robust rubber coated housing

Technical data:

Working range:	0 - 11 bar
	9 - 160 psi
Tube length:	490 mm
Operating pressure:	max 6,3 bar (90 psi)
Connection thread:	1/4"PT

		g
515.1950	Tyre filling gauge	600

Tyre filling gauge

- For one handed operation with ergonomic design
- with rubber-coated manometer
- manometer with bar and psi scale
- With filling lever and pressure release button
- extra long hose with integrated instant nipple plug
- With hanging hole
- Includes 1/4" coupling connector
- Robust rubber coated housing

Technical data:

Working range:	0 - 12 bar
	0 - 174 psi
Tube length:	1000 mm
Operating pressure:	6,3 bar (90 psi)
Connection thread:	1/4"PT

		g
515.1920	Tyre filling gauge	420

Calibrated tyre filling gauge

- For one handed operation with ergonomic design
- with rubber-coated manometer
- Manometer with bar scale
- With filling lever and pressure release button
- Tube with integrated locking male nipple
- With hanging hole
- Includes 1/4" coupling connector
- Robust rubber coated housing

Technical data:

Working range:	0 - 10 bar
	0 - 140 psi
Tube length:	400 mm
Operating pressure:	max. 6,3 bar (90 psi)
Connection thread:	1/4"PT

		g
515.1960	Calibrated tyre filling gauge	450

Tyre filling gauge

- For one hand operation
- with rubber-coated manometer
- Manometer with bar and psi scale
- With filling lever and pressure release button
- Tube with integrated locking male nipple
- Robust rubber coated housing

Technical data:

Working range:	0 - 15 bar
	0 - 220 psi
Tube length:	350 mm
Operating pressure:	11 bar (160 psi)
Connection thread:	1/4"PT

		g
515.1905	Tyre filling gauge	120

Digital tyre filling gauge

- For one hand operation
- With rubber coated display
- Manometer with digital display
- With filling lever and pressure release button
- Tube with integrated locking male nipple
- With automatic switch-on and off
- Large LCD display
- Includes 1/4" coupling connector
- Switchable: Bar, PSI, KPA, Kgf/cm³

Technical data:

Working range:	0 - 14 bar
	0 - 200 psi
Battery:	2x 1,5V (AAA)
Tube length:	500 mm
Operating pressure:	max. 6,3 bar (90 psi)
Working temperature:	- 15°C to + 60°C
Connection thread:	1/4"PT

		g
515.1970	Digital tyre filling gauge	490

SPRAY GUNS

Pneumatic combination spray gun

- For underbody coating or acoustic protection or body cavity sealing with wax
- Handy and light
- For standard 1000 ml cartridges
- Attached, flexible 500 mm-hose with spreader nozzle for all-round wax mist permits unproblematic wax application in cavities and interspaces
- Easy application of the underbody coating (or acoustic protection) with standard installed nozzles
- Application tip: Open cartridge, immerse suction pipe and screw in cartridge. Finished!
- Robust housing
- Includes 1/4" coupling connector

Technical data:

Air consumption:	225 l/min
Min. tube diameter:	1/4" - 6,35 mm
Operating pressure:	6,3 bar (90 psi)
Connection thread:	1/4"PT

	L mm	g
515.5065	220,0	400

Pneumatic sand blaster

- Ideal for specific working
- With integrated storage tank 600 cm³
- Suitable for blasting material grain size 46-100
- Suitable for quartz sand, glass beads, plastic granulate, aluminium oxide, standard corundum and glass granulate
- Supply for blasting material can be switched off and therefore also be used as normal pneumatic guns
- ABS tank
- Robust steel handle
- Steel nozzle, maintenance-free

Application range: Paint stripping, paint removal, rust removal, cleaning, surface cleaning

Technical data:

Operating pressure:	max. 6,3 bar (90 psi)
Air consumption:	200 l/min
Min. tube diameter:	3/8" - 10 mm
Connection thread:	1/4"NPT

	Length mm	Height mm	Ø mm	kg
515.1909	260,0	280,0	5,0	1,30

PNEUMATIC CLEANING GUNS

Pneumatic cleaning gun

- Ideal for professional cleaning of cushions, door pillars, ventilation channels, carpets, foot mats, fabric seats etc.
- Pneumatic-operated with simple handling
- Unique, cyclonic, ball bearing mounted rotation cleaning technology
- Efficient and energy-saving using targeted air turbulence
- For all possible surfaces, cleaned damp or dry
- Also suitable for hard-to-reach places, e.g. between seats and seams
- Cleaned surfaces also dry extremely quickly thanks for the fine misted cleaning solution
- With pressure regulator
- Includes 360° rotating and 30° angled ball joint and plug nipple

Technical data:

No load current:	8000 r.p.m.
Vibration acceleration:	< 3,9 m/s²
Noise performance level:	106 dbA
Noise pressure level:	95 dbA
Air consumption:	160 l/min
Operating pressure:	max. 6,3 bar (90 psi)
Min. tube diameter:	3/8" - 10 mm
Connection thread:	1/4"PT

		g
515.1980	1.000 ml	680

Cleaning Brush-Adaptor

- Ideal addition for cleaning the interior
- Can be used in conjunction with compressed-air cleaning guns (515.1980)
- With screw connection
- Plastic housing

		g
515.1983	Cleaning Brush-Adaptor	27

Cleaning Brush

- Ideal addition for cleaning the interior
- Can be used in conjunction with compressed-air cleaning guns (515.1980)
- With hanging hole
- Plastic housing

		g
515.1986	Cleaning Brush	60

Soda compressed air cleaning gun

- Suitable for cleaning and removing paint, colours, etc.
- For all possible surfaces, such as glass, plastic, rubber, wood, stone, etc.
- Soda blasting agent neither heats nor warps the panel
- Pneumatic-operated with simple handling
- Efficient and environmentally-friendly cleaning with NaHCO3 (soda)
- Air exhaust through the handle
- Cold insulated handle
- Includes 1/4" coupling connector

Technical data:

Operating pressure:	max. 6,3 - 8,2 bar (90 - 120 psi)
Min. tube diameter:	3/8" - 10 mm
Connection thread:	1/4"
Air consumption:	57 l/min

		kg
515.1919	Soda compressed air cleaning gun	1,47

Soda blasting agent

- Suitable for cleaning and removing paint, colours, etc.
- For all possible surfaces, such as glass, plastic, rubber, wood, stone, etc.
- Soda blasting agent neither heats nor warps the panel
- Efficient and environmentally-friendly cleaning with NaHCO3 (soda)
- In a practical 5 kg bucket

Technical data:

Water content:	< 0,25%
Chloride content:	< 150 ppm
Sulphate content:	< 150 ppm
sieve fraction:	< 0,5 mm: 95%

		g
515.1923	Soda blasting agent	5375

PRESSURISED AIR PISTOL CARTRIDGES

Pneumatic cartridge pistols 310 ml

- For working with cartridges and soft packs
- Ideal for glue, silicone or acrylic based cartridges
- For gluing front windscreens as well as most rear and side windows
- Can also be used for bodywork sealant, seam adhesive etc.
- Perfect run in the cartridge cylinder with the telescopic principle and therefore no cylinder tipping or air intake
- Drip-free mechanism
- Step-free controllable feed
- With two adapters for cartridges and bags
- With safety pressure release valve
- Includes pneumatic regulator for discharge speed
- Handy and ergonomic dual component housing
- Aluminium housing
- Plastic handle

Technical data:

Compressive force:	90 kg
Operating pressure:	max. 6,3 bar (90psi)
Max. flow rate:	40 l/min
Noise pressure level:	70 dbA
Connection thread:	1/4"PT

	Length mm	Height mm	Replacement nozzle	kg
515.1975	400,0	200,0	980.1001	1,00

Pneumatic cartridge pistols 600 ml

- For working with cartridges and soft packs
- Ideal for glue, silicone or acrylic based cartridges
- For gluing front windscreens as well as most rear and side windows
- Perfect run in the cartridge cylinder with the telescopic principle and therefore no cylinder tipping or air intake
- Drip-free mechanism
- Step-free controllable feed
- With two adapters for cartridges and bags
- With safety pressure release valve
- Includes pneumatic regulator for discharge speed
- Handy and ergonomic dual component housing
- Aluminium housing
- Plastic handle

Technical data:

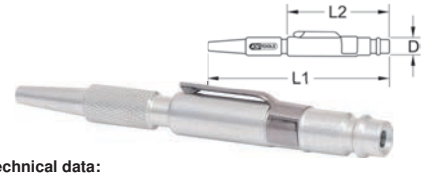
Compressive force:	90 kg
Operating pressure:	max. 6,3 kg/cm³ (90psi)
Max. flow rate:	40 l/min
Noise pressure level:	70 dbA
Connection thread:	1/4"PT

	Length mm	Height mm	Replacement nozzle	kg
515.1985	620,0	200,0	980.1001	1,30

AIR BLOW OUT TOOLS

Compressed blow out pen

- In ball point pen form
- Practical pocket clip
- Controllable air volume
- With 2,5 mm nozzle
- With Euro connection
- Direct air coupling suitable for connection
- Light aluminium housing



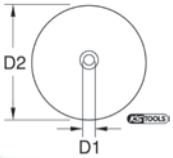
Technical data:

Input pressure:	max. 12 bar
Operating pressure:	max. 6,3 bar (90 psi)
Max. flow rate:	360 l/min
Noise pressure level:	90 dbA
Connection thread:	1/4"PT

	D mm	L1 mm	L2 mm	g
515.1908	10,0	110,0	70,0	150

Protective shield for compressed-blowing pistols

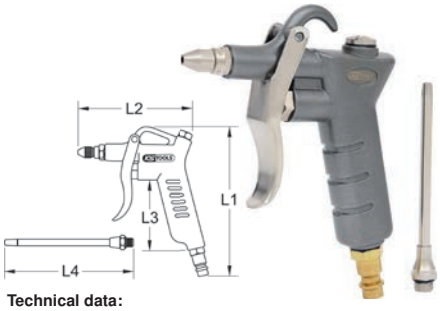
- Optimal protection for fluids spraying back or particles when blowing
- Suitable to be attached on the compressed-air blowing pistol
- Ideal for models with 6 mm nozzle diameter
- Stable protection shield made from see-through plastic
- Safe and easy use



	D1 mm	D2 mm	g
515.1912	6,0	100,0	50

Pneumatic blow out pistol with extension

- Ergonomic handle
- Controllable air volume
- With 2,5 mm nozzle
- Direct air coupling suitable for connection
- Easy to operate
- With hanging hole
- Includes 1/4" coupling connector
- Solid metal base body
- Robust metal housing



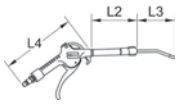
Technical data:

Input pressure:	max. 15 bar
Operating pressure:	max. 6,3 bar (90 psi)
Max. flow rate:	130 l/min
Noise pressure level:	90 dbA
Connection thread:	1/4"PT

	L1 mm	L2 mm	L3 mm	L4 mm	g
515.1930	125,0	110,0	75,0	125,0	180

Telescopic pneumatic blow out pistol

- With stepless extendable nozzle
- Telescopic blast pipe in length and angle adjustable 90 - 190 mm / 360°
- Ideal for cleaning and removing of foreign objects
- Ergonomic handle
- Controllable air volume
- With hanging function
- Direct air coupling suitable for connection
- Easy to operate
- Slip proof handle
- Includes 1/4" coupling connector
- Ultra light robust housing special plastic



	L2 mm	L3 mm	L4 mm	g
515.1907	120,0	90,0	195,0	200

Telescopic pneumatic blow out pistol with protective shield

- With stepless extendable nozzle
- Telescopic blast pipe in length and angle adjustable 90 - 190 mm / 360°
- Ideal for cleaning and removing of foreign objects
- Ergonomic handle
- Controllable air volume
- With hanging function
- Direct air coupling suitable for connection
- Easy to operate
- Slip proof handle
- Includes 1/4" coupling connector
- Ultra light robust housing special plastic

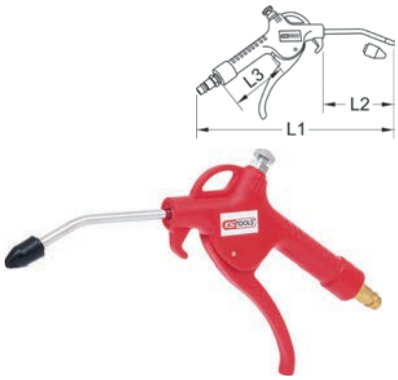
			g
515.1906	2 pcs	Telescopic pneumatic blow out pistol with protective shield	250

consists of:

		g
515.1907	Air operated blow pistol, telescopic, 90-190mm	200
515.1912	Protective shield for compressed-blowing pistols Ø100mm	50

Pneumatic blow out pistol with flow regulation

- With universal mouth piece
- Ideal for cleaning and removing of foreign objects
- Ergonomic handle
- Controllable air volume
- With hanging function
- Direct air coupling suitable for connection
- Easy to operate
- Slip proof handle
- Includes 1/4" coupling connector
- Ultra light robust housing special plastic



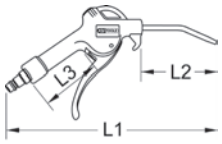
Technical data:

Input pressure:	max. 15 bar
Operating pressure:	max. 6,3 bar (90 psi)
Max. flow rate:	300 l/min
Noise pressure level:	90 dbA
Connection thread:	1/4"PT

	L1 mm	L2 mm	L3 mm	g
515.1901	235,0	100,0	75,0	150

Universal pneumatic blow out pistol

- Ideal for cleaning and removing of foreign objects
- Ergonomic handle
- Controllable air volume
- With hanging function
- Direct air coupling suitable for connection
- Easy to operate
- Slip proof handle
- Includes 1/4" coupling connector
- Ultra light robust housing special plastic



Technical data:

Input pressure:	max. 15 bar
Operating pressure:	max. 6,3 bar (90 psi)
Max. flow rate:	300 l/min
Noise pressure level:	90 dbA
Connection thread:	1/4"PT

	L1 mm	L2 mm	L3 mm	g
515.1902	235,0	95,0	75,0	170
515.1903	470,0	330,0	75,0	240
515.1904	650,0	510,0	75,0	280

Pneumatic blow out pistol set

- Ideal for cleaning and removing of foreign objects
- Ergonomic handle
- Controllable air volume
- With hanging function
- Direct air coupling suitable for connection
- Easy to operate
- Slip proof handle
- Includes 1/4" coupling connector
- Ultra light robust housing special plastic

			g
515.1921	3 pcs	Pneumatic blow out pistol set	690

1 x		95 mm
1 x		330 mm
1 x		510 mm

Pneumatic air blow gun, long

- With 90° side nozzle and Venturi nozzle
- Ideal for cleaning and removing of foreign objects also in hard to reach places
- Grip area with insulated lance to protect it from cold
- Controllable air volume
- With hanging function
- Direct air coupling suitable for connection
- Easy to operate
- Long execution
- Includes 1/4" coupling connector
- Increased efficiency due to Venturi nozzle
- 90° side nozzle enables cleaning of cooling fins
- Ultra light robust housing from special plastic
- Metal pipe

Technical data:

Input pressure:	max. 15 bar
Operating pressure:	max. 6,3 bar (90 psi)
Max. flow rate:	540 l/min
Noise pressure level:	90 dbA
Connection thread:	1/4"PT

			g
515.1915	3 pcs	Pneumatic air blow gun, long	510

consists of:

		g
515.1916	Pneumatic blow out pistol, 1100 mm	400
515.1917	90° side nozzle	20
515.1918	Venturi nozzle	65

VACUUMS

Pneumatic suction and blow gun

- Includes reinforced fabric dust collection bag
- Versitile usage
- Includes 1/4" coupling connector
- Robust housing

Technical data:

Operating pressure:	max. 6,3 bar (90 psi)
Max. flow rate:	96 l/min
Noise performance level:	97 dbA
Noise pressure level:	92 dbA
Min. tube diameter:	3/8" - 10 mm
Connection thread:	1/4"

	L mm	g
515.5090	145,0	670

PNEUMATIC FLUSH GUN

Cooling system pneumatic flush gun

- ideal for fast and efficient rinsing of the cooling system
- restores optimum operation of the cooling system
- can be used without solvents or aggressive chemicals
- works in conjunction with compressed air and water, increasing the water pressure
- the cooling system flush gun is equipped with a standard 1/2" / Ø 13 mm water connection
- universal rubber nozzle with various diameters 19.0 / 29.0 / 32.0 / 36.5 and 40.0 mm
- for all common coolant hoses
- Includes 1/4" coupling connector
- Ultra light robust housing special plastic

Technical data:

Input pressure:	max. 8,5 bar
Operating pressure:	max. 6,3 bar (90 psi)
Connection thread:	1/4"PT

	Ø mm	Total length mm	g
515.1216	19,0 / 29,0 / 32,0 / 36,5 / 40,0	350,0	300

PNEUMATIC HOSE

PU pneumatic spiral coiled tube

- Flexible, crush resistant polyurethane hose
- Tube ends with anti kink device
- Rotating fitting
- Flexible in cold
- Oil and petrol resistant

Technical data:

Temperature constancy: -40°C - +70°C

Max. pressure: 12 bar

	Tube inner Ø mm	Connection		suitable coupling	suitable inlet connector	kg
515.3330	6	G1/4" OT	8,0	515.3483	515.3492	0,60
515.3335	8	G1/4" OT	15,0	515.3483	515.3492	1,20
515.3340	10	G3/8" OT	15,0	515.3484	515.3493	1,80

PU-pneumatic tube

- High quality pneumatic hose
- Suitable for pneumatic and water
- Light and crush free material
- Suitable accessories
- Long service life
- Oil and petrol resistant

Technical data:

Temperature constancy: -40°C - +70°C

Max. pressure: 15 bar

	Ø Tube mm	Connection		suitable coupling	suitable inlet connector	kg
515.3344	6 x 9	G1/4" OT	20,0	515.3483	515.3492	1,00
515.3345	9 x 12	G1/4" OT	20,0	515.3483	515.3492	1,75

Compressed air hose with signal fluorecent colour

- more flexible compressed air hose
- Light and crush free material
- the fluorescent colour of Signal hose is easily detectable and prevents tripping
- abrasion-resistant
- Long service life
- not silicon-free
- Oil and petrol resistant

Technical data:

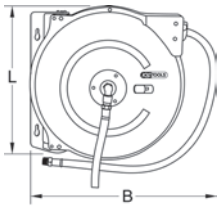
Temperature constancy: -40°C - +65°C

Max. pressure: 20 bar

	Tube inner Ø mm		suitable coupling	suitable inlet connector	kg
515.3420	10,0	10,0	515.3487	515.3496	3,00

Automatic pneumatic hose reel Ø 6 mm x 15 m

- With wall mounting bracket
- For pneumatic and water
- Drum 180° freely tiltable by means of wall mounting
- Flexible PVC hose
- Automatic hose return
- Multi gearlock per rotation
- Device adjusting lock
- Include 1 m connecting hose
- Impact resistant plastic housing



Technical data:

Tube diameter: 6,0 mm

Tube length: 15 + 1 m

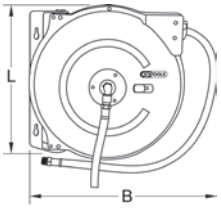
Max. pressure: 20,0 bar

Connection thread: 1/4" - 6,35 mm

	B mm	L mm	kg
515.3310	435,0	400,0	12,50

Automatic pneumatic hose reel Ø 10 mm x 15 m

- With wall mounting bracket
- For pneumatic and water
- Drum 180° freely tiltable by means of wall mounting
- Flexible, crush resistant Hybrid-Polymer hose
- Automatic hose return
- Multi gearlock per rotation
- Device adjusting lock
- Include 1 m connecting hose
- Impact resistant plastic housing



Technical data:

Tube diameter: 10,0 mm

Tube length: 15 + 1 m m

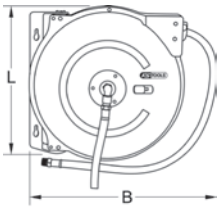
Max. pressure: 20,0 bar

Connection thread: 3/8" - 10 mm

	B mm	L mm	kg
515.3410	480,0	380,0	6,00

Automatic pneumatic hose reel Ø 13 mm x 15 m

- With wall mounting bracket
- For pneumatic and water
- Drum 180° freely tiltable by means of wall mounting
- Flexible, crush resistant Hybrid-Polymer hose
- Automatic hose return
- Multi gearlock per rotation
- Device adjusting lock
- Include 1 m connecting hose
- Impact resistant plastic housing



Technical data:

Tube diameter: 13,0

Tube length: 15 + 1 m m

Max. pressure: 20,0 bar

Connection thread: 1/2" - 13 mm

	B mm	L mm	kg
515.3415	480,0	380,0	9,70

AIR SERVICE UNIT

Pneumatic water trap

- For separating condensation
- Assembly directly in the access direction
- Made out of sitered metal

1/4"

	size outside thread	size internal thread	mm	Length mm	g
515.3370	1/4"	1/4"	14	88,0	140

Pneumatic side oiler

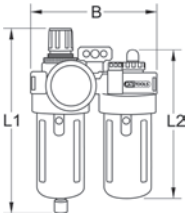
- For automatic oiling of pneumatic tools
- To test oil state through transparent visibility glass
- Compact execution
- Usably in most pneumatic tool
- Extends the service life of pneumatic tools
- Refillable
- Assembly directly in the access direction

1/4"

	size outside thread	size internal thread	mm	Length mm	g
515.3360	1/4"	1/4"	17	54,0	110

Air service unit

- Suitable for wall mounting
- Consists of filter pressure reducer, oil regulator and manometer
- Inspection glass for fluid inspection
- For the assembly of pneumatic tools
- Output pressure regulates independent of the input pressure
- Filters dirt particles and condensation
- With adjustable oil regulator
- With integrated wall mouting bracket



Technical data:

Max. pressure:	16 bar
Max. working pressure:	12 bar
Pressure gauge:	0,5 - 12 bar
Allowable temparture range:	-10° - +55°C
Air pressure up to 6,3 bar:	1/4" = 1800 l/min
	3/8" = 5000 l/min
	1/2" = 5000 l/min
Filter pressure more inferior:	1/4" = 30 ml
	3/8" = 50 ml
	1/2" = 50 ml
Oil trap:	1/4" = 40 ml
	3/8" = 170 ml
	1/2" = 170 ml

	Connection	B mm	L1 mm	L2 mm	kg
515.3355	1/4"	140,0	200,0	135,0	0,43
515.3350	3/8"	140,0	200,0	135,0	1,14
515.3356	1/2"	140,0	200,0	135,0	1,30

PNEUMATIC ADAPTERS & COUPLINGS

Metal swivel joint

- For compressed air hoses 1/4"
- Prevents damage to the compressed air hose
- Version with compressed air regulator
- Metal body
- Diameter 7,2 mm

1/4"

	size outside thread	size internal thread	mm	Length mm	g
515.3396	1/4"	1/4"	16	39,0	80

Metal ball joint fitting nipple

- Prevents damage to the compressed air hose
- 360° rotatable and 30° angleable
- for compressed air hoses 1/4" male thread
- Ideal for use with spray guns
- Metal body
- Diameter 7,2 mm

1/4"

	size outside thread	mm	Length mm	g
515.3395	1/4"	21	56,0	50

Metal ball joint fitting nipple

- Prevents damage to the compressed air hose
- Joint absorbs pivoting movements when used with spray gun
- 360° rotatable and 30° angleable
- for compressed air hoses 1/4" female thread
- Ideal for use with spray guns
- Metal body
- Diameter 7,2 mm

1/4"

	size internal thread	mm	Length mm	g
515.3394	1/4"	16	46,0	30

Metal air inlet connector

- for compressed air hoses 1/4" male thread
- Steel body
- Surface nickel-plated
- Diameter 7,75 mm

Application range: Germany (Standard), Austria, Slovenia, Hungary, China, India, Portugal, Russia, Poland, Romania, Turkey

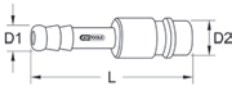
1/4"

	size outside thread	mm	Length mm	g
999.9086	1/4"	15	40,0	23

Metal air inlet connector with hose tail

- For compressed air hoses 10 mm
- Steel body
- Surface nickel-plated

Application range: Germany (Standard), Austria, Slovenia, Hungary, China, India, Portugal, Russia, Poland, Romania, Turkey



	D1 mm	D2 mm	L mm	g
999.9093	10,0	7,6	45,0	15

Metal air inlet connector

- for compressed air hoses 1/4" male thread
- Steel body
- Surface nickel-plated
- Diameter 7,75 mm

Application range: Switzerland, Holland, Belgium, France

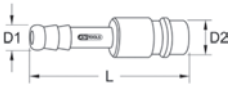
1/4"

	size outside thread	mm	Length mm	g
999.9087	1/4"	15	44,0	23

Metal air inlet connector with hose tail

- For compressed air hoses 10 mm
- Steel body
- Surface nickel-plated

Application range: Switzerland, Holland, Belgium, France



	D1 mm	D2 mm	L mm	g
999.9094	10,0	7,6	58,0	26

Metal air inlet connector

- for compressed air hoses 1/4" male thread
- Steel body
- Surface nickel-plated
- Diameter 7,75 mm

Application range: Italy, Spain

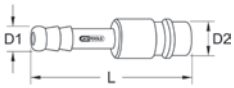
1/4"

	size outside thread	mm	Length mm	g
999.9088	1/4"	15	45,0	23

Metal air inlet connector with hose tail

- For compressed air hoses 10 mm
- Steel body
- Surface nickel-plated

Application range: Italy, Spain



	D1 mm	D2 mm	L mm	g
999.9095	10,0	4,9	58,5	26

Metal air inlet connector

- for compressed air hoses 1/4" male thread
- Steel body
- Surface nickel-plated
- Diameter 7,75 mm

Application range: South Korea, China, Japan

1/4"

	size outside thread	mm	Length mm	g
999.9089	1/4"	15	40,0	25

Male coupling with male thread

- Body made of brass
- Diameter 7,2 mm

	size outside thread	mm	Length mm	g
515.3489	1/4"	17	33,0	20
515.3490	3/8"	19	33,0	25
515.3491	1/2"	24	35,0	41

2-stage compressed air safety coupling

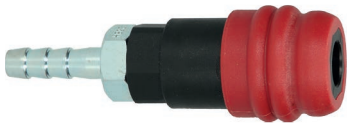
- With one handed operation
- 2-level safety removal function
- Stage 1: Compressed air device is depressurised
- Stage 2: Compressed air hose can be safely uncoupled
- Self sealing on the coupling
- Diameter 7,0 mm

1/4"

	size outside thread	mm	Length mm	g
999.9092	1/4"	4,9	77,5	54

2-Level compressed air safety coupling with hose nozzle

- With one handed operation
- 2-level safety removal function
- Stage 1: Compressed air device is depressurised
- Stage 2: Compressed air hose can be safely uncoupled
- Self sealing on the coupling
- Diameter 7,0 mm



	Ø mm	mm	Length mm	g
999.9096	9,0	19	95,0	52
999.9097	11,0	19	96,0	54
999.9098	14,5	19	98,0	62

Coupling with male thread

- With one handed operation
- Self sealing on the coupling
- Body made of brass
- Diameter 7,2 mm

	size outside thread	mm	Length mm	g
515.3480	1/4"	22	40,0	70
515.3481	3/8"	22	41,0	90
515.3482	1/2"	22	43,0	90

Brass coupling with female thread

- Self sealing on the coupling
- Unilaterally closing off
- Body made of brass
- Diameter 7,2 mm

	size internal thread	mm	Length mm	g
515.3483	1/4"	22	41,0	80
515.3484	3/8"	22	41,0	85
515.3485	1/2"	24	43,0	90

Brass male coupling with female thread

- Body made of brass
- Diameter 7,2 mm

	size internal thread	mm	Length mm	g
515.3492	1/4"	17	33,0	22
515.3493	3/8"	19	33,0	22
515.3494	1/2"	24	35,0	40

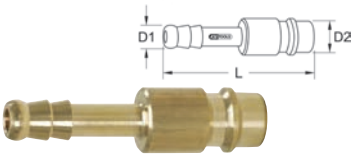
Brass Coupling with hose connector

- With one handed operation
- Roller locking
- Check valve
- Body made of brass

	Ø mm	Length mm	g
515.3486	6,0	55,0	70
515.3487	9,0	55,0	80
515.3488	13,0	55,0	90

Male coupling with hose connector

- Body made of brass



	D1 mm	D2 mm	L mm	g
515.3495	6,0	7,2	44,0	10
515.3496	9,0	7,2	44,0	20
515.3497	13,0	7,2	46,0	25

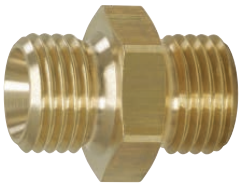
Brass reducing nipple

- Body made of brass
- Diameter 7,2 mm

	size outside thread	size internal thread	mm	Length mm	g
515.3383	3/8"	1/4"	19	14,0	10
515.3384	1/4"	3/8"	24	26,0	30
515.3385	3/8"	1/2"	24	26,0	50
515.3386	1/2"	3/8"	19	18,0	60

Brass reducing nipple

- Body made of brass
- Diameter 7,2 mm



	size outside thread	mm	Length mm	g
515.3380	1/4"	17	23,0	20
515.3381	3/8"	19	23,0	30
515.3382	1/2"	24	30,0	50

Compressed air pressure reducer of maximum 10 bar to 6.2 bar

- Regulates the air flow volume and protects pneumatic tools
- Can be installed in the compressed air line or directly to the compressed air device
- Maximum input pressure 10 bar
- Output pressure is 6.2 bar
- Includes 1/4" coupling connector and adapter
- Metal body
- Diameter 7,2 mm

1/4"

	Ø mm	Length mm	g
515.3366	48	62,0	142

Brass pneumatic regulator

- With regulation wheel
- For regulating the air flow volume
- Assembly directly in the access direction
- Completely lockable
- Body made of brass

1/4"

	size outside thread	size internal thread	mm	Length mm	g
515.3365	1/4"	1/4"	18	43,0	80

Brass pneumatic 3 way separator

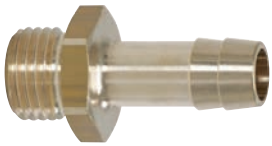
- Connection of 3 outlet lines 1/4" female thread to one inlet line
- Body made of soild brass

1/4"

	size internal thread	mm	Length mm	g
515.3375	1/4"	19	32,0	160

Brass hose nipple with male thread

- Inner cone 45°
- Body made of brass



	size outside thread	Ø mm	mm	Length mm	g
515.3387	1/4"	6,0	17	35,0	20
515.3388	1/4"	9,0	17	35,0	20
515.3389	3/8"	9,0	19	36,0	30
515.3390	3/8"	13,0	19	42,0	30
515.3391	1/2"	9,0	24	40,0	50
515.3392	1/2"	13,0	24	46,0	50

Ear protection can be found in the Industrial safety & workwear section.

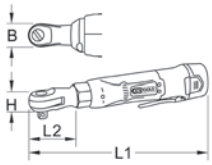
KS TOOLS®

Innovation is our mission!

CORDLESS REVERSIBLE RATCHETS

Cordless reversible ratchet

- Lightweight
- Handy and ergonomic dual component housing
- Square drive adaptor to DIN 3120 / ISO 1174
- With practical clockwise and anticlockwise reversing function
- Carbon brushes interchangeable
- High performance lithium-ion battery
- Longer running time through higher load capacity
- Fast charging function (1 hour)
- Automatic turn off charging station
- Blow mould plastic housing



1/4"

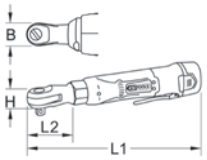
Technical data:

Drive:	1/4"
Electrical Voltage:	10,8 V
Speed:	220 r.p.m.
Torque max.	34 Nm
No load current:	5 A
Charging time:	1 hour
Rechargeable battery:	10,8 V - 2,0 Ah
Weight (basic unit + battery):	905 g

	L1 mm	L2 mm	B mm	H mm	Spare carbon brushes set	Battery pack	Number of batteries	Charger	kg
515.3499	275,0	60,0	30,0	35,0	515.3595	515.3592	0	0	1,00
515.3500	275,0	60,0	30,0	35,0	515.3595	515.3592	1	1	1,90
515.3501	275,0	60,0	30,0	35,0	515.3595	515.3592	2	1	2,10

Cordless reversible ratchet

- Lightweight
- Handy and ergonomic dual component housing
- Square drive adaptor to DIN 3120 / ISO 1174
- With practical clockwise and anticlockwise reversing function
- Carbon brushes interchangeable
- High performance lithium-ion battery
- Longer running time through higher load capacity
- Fast charging function (1 hour)
- Automatic turn off charging station
- Blow mould plastic housing



3/8"

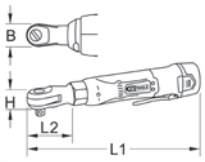
Technical data:

Drive:	3/8"
Electrical Voltage:	10,8 V
Speed:	220 r.p.m.
Torque max.	49 Nm
No load current:	5 A
Charging time:	1 hour
Rechargeable battery:	10,8 V - 2,0 Ah
Weight (basic unit + battery):	980 g

	L1 mm	L2 mm	B mm	H mm	Spare carbon brushes set	Battery pack	Number of batteries	Charger	kg
515.3504	270,0	55,0	30,0	35,0	515.3595	515.3592	0	0	1,00
515.3505	270,0	55,0	30,0	35,0	515.3595	515.3592	1	1	1,90
515.3506	270,0	55,0	30,0	35,0	515.3595	515.3592	2	1	2,10

Cordless reversible ratchet

- Lightweight
- Handy and ergonomic dual component housing
- Square drive adaptor to DIN 3120 / ISO 1174
- With practical clockwise and anticlockwise reversing function
- Carbon brushes interchangeable
- High performance lithium-ion battery
- Longer running time through higher load capacity
- Fast charging function (1 hour)
- Automatic turn off charging station
- Blow mould plastic housing



1/2"

Technical data:

Drive:	1/2"
Electrical Voltage:	10,8 V
Speed:	180 rpm
Torque max.	62 Nm
No load current:	5 A
Charging time:	1 hour
Rechargeable battery:	10,8 V - 2,0 Ah
Weight (basic unit + battery):	1,30 kg

	L1 mm	L2 mm	B mm	H mm	Spare carbon brushes set	Battery pack	Number of batteries	Charger	kg
515.3509	300,0	80,0	40,0	45,0	515.3595	515.3592	0	0	1,20
515.3510	300,0	80,0	40,0	45,0	515.3595	515.3592	1	1	2,10
515.3511	300,0	80,0	40,0	45,0	515.3595	515.3592	2	1	2,30

CORDLESS IMPACT WRENCH

Cordless impact screwdriver

- Lightweight
- Handy and ergonomic dual component housing
- Tool holder female hexagon 6 point to DIN 3163 - E6,3
- With practical clockwise and anticlockwise reversing function
- Stepless controllable motor speed through electronic switch
- With industrial hammer mechanism
- Carbon brushes interchangeable
- High performance lithium-ion battery
- Longer running time through higher load capacity
- Fast charging function (1 hour)
- Automatic turn off charging station
- Blow mould plastic housing
- In durable plastic storage case

1/4"

Technical data:

Drive:	1/4"
Electrical Voltage:	10,8 V
Speed:	0 - 1870 rpm
Torque max.	117 Nm
No load current:	3,5 A
Charging time:	1 hour
Rechargeable battery:	10,8 V - 1,5 Ah

	L mm	B mm	H mm	Spare carbon brushes set	Battery pack	Number of batteries	Charger	kg
515.3539	190,0	55,0	195,0	515.3595	515.3592	0	0	1,50
515.3540	190,0	55,0	195,0	515.3595	515.3592	1	1	2,40
515.3541	190,0	55,0	195,0	515.3595	515.3592	2	1	2,60

Cordless impact wrench

- Lightweight
- Handy and ergonomic dual component housing
- Square drive adaptor to DIN 3120 / ISO 1174
- With practical clockwise and anticlockwise reversing function
- Stepless controllable motor speed through electronic switch
- With industrial hammer mechanism
- Carbon brushes interchangeable
- High performance lithium-ion battery
- Longer running time through higher load capacity
- Fast charging function (1 hour)
- Automatic turn off charging station
- Blow mould plastic housing
- In durable plastic storage case

Technical data:

Drive:	3/8"
Electrical Voltage:	10,8 V
Speed:	0 - 1870 rpm
Torque max.	117 Nm
No load current:	3,5 A
Charging time:	1 hour
Rechargeable battery:	10,8 V - 2,0 Ah
Weight (basic unit + battery):	1,10 kg

	L mm	B mm	H mm	Spare carbon brushes set	Battery pack	Number of batteries	Charger	kg
515.3514	190,0	55,0	195,0	515.3595	515.3592	0	0	1,80
515.3515	190,0	55,0	195,0	515.3595	515.3592	1	1	2,40
515.3516	190,0	55,0	195,0	515.3595	515.3592	2	1	2,60

Cordless impact wrench

- Handy and ergonomic dual component housing
- Square drive adaptor to DIN 3120 / ISO 1174
- With practical clockwise and anticlockwise switch
- Stepless controllable motor speed through electronic switch
- With industrial hammer mechanism
- Carbon brushes interchangeable
- High performance lithium-ion battery
- Longer running time through higher load capacity
- Fast charging function (1 hour)
- Automatic turn off charging station
- Blow mould plastic housing
- In durable plastic storage case

Technical data:

Drive:	1/2"
Electrical Voltage:	18 V
Speed:	0 - 2000 rpm
Torque max.	402 Nm
No load current:	3,5 A
Charging time:	1 hour
Rechargeable battery:	18 V - 4,0 Ah

	L mm	B mm	H mm	Spare carbon brushes set	Battery pack	Number of Charger batteries		kg
515.3519	240,8	80,0	273,0	515.3596	515.3599	0	0	2,30
515.3520	240,8	80,0	273,0	515.3596	515.3599	1	1	3,60
515.3521	240,8	80,0	273,0	515.3596	515.3599	2	1	4,40

Cordless impact wrench with torque control

- Handy and ergonomic dual component housing
- Square drive adaptor to DIN 3120 / ISO 1174
- With practical clockwise and anticlockwise reversing function
- With 6 torque-stages
- With industrial hammer mechanism
- Carbon brushes interchangeable
- High performance lithium-ion battery
- Longer running time through higher load capacity
- Fast charging function (1 hour)
- Automatic turn off charging station
- Blow mould plastic housing
- In durable plastic storage case

1/2"

Technical data:

Drive:	1/2"
Electrical Voltage:	18 V
Speed:	0 - 1800 rpm
Torque max.	539 Nm
Torque stages:	6 stages
No load current:	3,5 A
Charging time:	1 hour
Rechargeable battery:	18 V - 4,0 Ah

	L mm	B mm	H mm	Spare carbon brushes set	Battery pack	Number of Charger batteries		kg
515.3524	256,0	80,0	273,0	515.3596	515.3599	0	0	2,50
515.3525	256,0	80,0	273,0	515.3596	515.3599	1	1	3,80
515.3526	256,0	80,0	273,0	515.3596	515.3599	2	1	4,60

CORDLESS DRILL MACHINES

Cordless screwdriver

- Lightweight
- Handy and ergonomic dual component housing
- Hexagon socket holder in accordance with DIN 3126 - E6,3
- With practical clockwise and anticlockwise reversing function
- Stepless controllable motor speed through electronic switch
- With torque control
- Carbon brushes interchangeable
- High performance lithium-ion battery
- Longer running time through higher load capacity
- Fast charging function (1 hour)
- Automatic turn off charging station
- Blow mould plastic housing
- In durable plastic storage case

Technical data:

Drive:	1/4"
Electrical Voltage:	10,8 V
Speed:	0 - 400 rpm
Torque max.	24 Nm
Torque stages:	1 - 16 stages
No load current:	2,9 A
Charging time:	1 hour
Rechargeable battery:	10,8 V - 2,0 Ah

	L mm	B mm	H mm	Spare carbon brushes set	Battery pack	Number of Charger batteries		kg
515.3529	148,0	55,0	190,0	515.3595	515.3592	0	0	1,50
515.3530	148,0	55,0	190,0	515.3595	515.3592	1	1	2,40
515.3531	148,0	55,0	190,0	515.3595	515.3592	2	1	2,60

Cordless drill machine

- Lightweight
- Handy and ergonomic dual component housing
- Universal use through robust quick release chuck
- With practical clockwise and anticlockwise reversing function
- Stepless controllable motor speed through electronic switch
- With torque control
- Carbon brushes interchangeable
- High performance lithium-ion battery
- Longer running time through higher load capacity
- Fast charging function (1 hour)
- Automatic turn off charging station
- Blow mould plastic housing
- In durable plastic storage case

Technical data:

Chuck capacity:	1 - 10 mm
Electrical Voltage:	10,8 V
Speed:	0 - 1870 rpm
Torque max.	24 Nm
No load current:	3,5 A
Charging time:	1 hour
Rechargeable battery:	10,8 V - 2,0 Ah

	L mm	B mm	H mm	Spare carbon brushes set	Battery pack	Number of Charger batteries		kg
515.3534	190,0	55,0	200,0	515.3595	515.3592	0	0	1,60
515.3535	190,0	55,0	200,0	515.3595	515.3592	1	1	2,50
515.3536	190,0	55,0	200,0	515.3595	515.3592	2	1	2,70

CORDLESS GRINDER

Cordless high performance grinder

- Lightweight
- Handy and ergonomic dual component housing
- Ideal for carbide, corundum and tungsten carbide burrs
- Carbon brushes interchangeable
- High performance lithium-ion battery
- Longer running time through higher load capacity
- Fast charging function (1 hour)
- Automatic turn off charging station
- Blow mould plastic housing
- In durable plastic storage case

Technical data:

Chuck capacity:	3 mm
Electrical Voltage:	10,8 V
Speed:	22000 rpm
No load current:	3 A
Charging time:	1 hour
Rechargeable battery:	10,8 V - 2,0 Ah

	L mm	B mm	H mm	Spare carbon brushes set	Battery pack	Number of Charger batteries		kg
515.3544	145,0	50,0	180,0	515.3595	515.3592	0	0	1,20
515.3545	145,0	50,0	180,0	515.3595	515.3592	1	1	2,10
515.3546	145,0	50,0	180,0	515.3595	515.3592	2	1	2,30

Cordless grinder

- Lightweight
- Handy and ergonomic dual component housing
- For powerful grinding and polishing on small areas
- Carbon brushes interchangeable
- High performance lithium-ion battery
- Longer running time through higher load capacity
- Fast charging function (1 hour)
- Automatic turn off charging station
- Blow mould plastic housing
- In durable plastic storage case

Technical data:

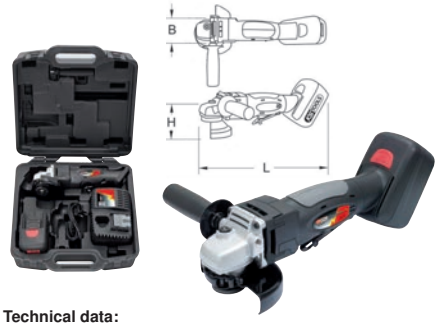
Electrical Voltage:	10,8 V
Speed:	3200 rpm
Velcro disc receiver:	Ø 75 mm
No load current:	3 A
Charging time:	1 hour
Rechargeable battery:	10,8 V - 2,0 Ah

	L mm	B mm	H mm	Spare carbon brushes set	Battery pack	Number of Charger batteries		kg
515.3548	130,0	50,0	185,0	515.3595	515.3592	0	0	1,30
515.3550	130,0	50,0	185,0	515.3595	515.3592	1	1	2,20
515.3558	130,0	50,0	185,0	515.3595	515.3592	2	1	2,40

CORDLESS ANGLE GRINDER

Cordless angle grinder

- Lightweight
- Handy and ergonomic dual component housing
- For powerful grinding and polishing on small areas
- Carbon brushes interchangeable
- High performance lithium-ion battery
- Longer running time through higher load capacity
- Fast charging function (1 hour)
- Automatic turn off charging station
- Blow mould plastic housing
- In durable plastic storage case



Technical data:

Velcro disc receiver:	Ø 115 mm = 4.1/2"
Electrical Voltage:	18.0 V
Speed:	7000 r.p.m.
No load current:	8,5 A
Charging time:	1 hour
Rechargeable battery:	18 V - 4,0 Ah

	L mm	B mm	H mm	Spare carbon brushes set	Battery pack	Number of batteries	Charger	kg
515.4109	390,0	56,0	80,0	515.3596	515.3599	0	0	3,78
515.4110	390,0	56,0	80,0	515.3596	515.3599	1	1	5,03
515.4111	390,0	56,0	80,0	515.3596	515.3599	2	1	5,83

CORDLESS POLISHER

Cordless polisher

- Handy and ergonomic dual component housing
- Polishing with a fast and excellent work result
- Carbon brushes interchangeable
- High performance lithium-ion battery
- Longer running time through higher load capacity
- Fast charging function (1 hour)
- Automatic turn off charging station
- Blow mould plastic housing
- With lambswool bonnet
- In durable plastic storage case

Technical data:

Electrical Voltage:	18 V
Speed:	1600 - 2300 rpm
Polishing sponge diameter:	Ø 125 mm / 5"
No load current:	3 A
Charging time:	1 hour
Rechargeable battery:	18 V - 4,0 Ah
Weight (basic unit + battery):	2,5 kg

	L mm	B mm	H mm	Replacement pads	Lamswool bonnet	Spare carbon brushes set	Battery pack	Number of batteries	Charger	kg
515.3554	420,0	60,0	100,0	515.3555-21	515.3555-22	515.3596	515.3599	0	0	4,00
515.3555	420,0	60,0	100,0	515.3555-21	515.3555-22	515.3596	515.3599	1	1	5,30
515.3756	360,0	60,0	100,0	515.3555-21	515.3555-22	515.3596	515.3599	2	1	6,06

CORDLESS GREASE GUN

Cordless grease gun 400 ml

- Handy and ergonomic dual component housing
- For standard grease cartridges or direct filling
- Ideal for heavy greasing with counter pressure
- With flexible 750 mm filling tube
- Carbon brushes interchangeable
- High performance lithium-ion battery
- With a rechargeable battery that can be process up to 15 cartridges
- Longer running time through higher load capacity
- Fast charging function (1 hour)
- Automatic turn off charging station
- In durable plastic storage case

Technical data:

Operating pressure:	420 bar / 42 MPa
NLGI class:	< 2
Grease filling:	75 g / min
Capacity of the unit:	400 ml
No load current:	3 A
Operating current:	2,0 ~ 5,5 A
Charging time:	1 hour
Rechargeable battery:	18 V - 4,0 Ah

	L mm	B mm	H mm	Spare carbon brushes set	Battery pack	Number of batteries	Charger	kg
515.3559	237,0	80,0	487,0	515.3596	515.3599	0	0	5,40
515.3560	237,0	80,0	487,0	515.3596	515.3599	1	1	6,70
515.3561	237,0	80,0	487,0	515.3596	515.3599	2	1	7,50

Grease gun adaptor set

- For standard hand, cordless and pneumatic grease guns
- Adaptor with sliding sleeve for break-proof connection
- Straight and angled grease nipple
- For grease nipples out of steel, brass and stainless steel

Application range: Cone, funnel, ball and flat grease nipples

			kg
980.1100	7 pcs	Grease gun adaptor set	1,99

consists of:

		Length mm	g
980.1101	90° Lubricant adaptor	114,0	150
980.1102	Tube extension, 300 mm	390,0	240
980.1103	Straight extension	155,0	230
980.1104	90° flat nipple adaptor	135,0	160
980.1105	Rubber grease tip	155,0	150
980.1106	Needle shaped tip	135,0	143
980.1107	360° Adaptor, adjustable	185,0	265

CORDLESS CARTRIDGE GUN

Cordless cartridge gun 310 ml

- Handy and ergonomic dual component housing
- Ideal for glue, silicone or acrylic based cartridges
- For gluing front windscreens as well as most rear and side windows
- Can also be used for bodywork sealant, seam adhesive etc.
- Drip-free mechanism
- Step-free controllable feed
- Carbon brushes interchangeable
- High performance lithium-ion battery
- Processing capacity per battery charge at ~ 20 °C, up to 15 cartridges
- Longer running time through higher load capacity
- Fast charging function (1 hour)
- Automatic turn off charging station
- With a sturdy aluminium cylinder
- Blow mould plastic housing
- In durable plastic storage case

Technical data:

Electrical Voltage:	10,8 V
Capacity of the unit:	310 ml
Propulsion without load:	6,1 mm / sec
Output pressure:	392 kgf
Charging time:	1 hour
Rechargeable battery:	10,8 V - 2,0 Ah

	L mm	B mm	H mm	Spare carbon brushes set	Battery pack	Number of batteries	Charger	kg
515.3569	410,0	138,0	245,0	515.3595	515.3592	0	0	3,60
515.3570	410,0	138,0	245,0	515.3595	515.3592	1	1	4,50
515.3571	410,0	138,0	245,0	515.3595	515.3592	2	1	4,70

Cordless cartridge gun 400 ml

- Handy and ergonomic dual component housing
- Ideal for glue, silicone or acrylic based cartridges
- For gluing front windscreens as well as most rear and side windows
- Can also be used for bodywork sealant, seam adhesive etc.
- Drip-free mechanism
- Step-free controllable feed
- Carbon brushes interchangeable
- High performance lithium-ion battery
- Processing capacity per battery charge at ~ 20 °C, up to 15 cartridges
- Longer running time through higher load capacity
- Fast charging function (1 hour)
- Automatic turn off charging station
- With a sturdy aluminium cylinder
- Blow mould plastic housing
- In durable plastic storage case

Technical data:

Electrical Voltage:	10,8 V
Capacity of the unit:	400 ml
Propulsion without load:	6,1 mm / sec
Output pressure:	392 kgf
Charging time:	1 hour
Rechargeable battery:	10,8 V - 2,0 Ah

	L mm	B mm	H mm	Spare carbon brushes set	Battery pack	Number of Charger batteries		kg
515.3574	450,0	138,0	245,0	515.3596	515.3592	0	0	3,70
515.3575	450,0	138,0	245,0	515.3596	515.3592	1	1	4,60
515.3576	450,0	138,0	245,0	515.3596	515.3592	2	1	4,80

Cordless cartridge gun 600 ml

- Handy and ergonomic dual component housing
- Ideal for glue, silicone or acrylic based cartridges
- For gluing front windscreens as well as most rear and side windows
- Can also be used for bodywork sealant, seam adhesive etc.
- Drip-free mechanism
- Step-free controllable feed
- Carbon brushes interchangeable
- High performance lithium-ion battery
- Processing capacity per battery charge at ~ 20 °C, up to 15 cartridges
- Longer running time through higher load capacity
- Fast charging function (1 hour)
- Automatic turn off charging station
- With a sturdy aluminium cylinder
- Blow mould plastic housing
- In durable plastic storage case

Technical data:

Electrical Voltage:	10,8 V
Capacity of the unit:	600 ml
Propulsion without load:	6,1 mm / sec
Output pressure:	392 kgf
Charging time:	1 hour
Rechargeable battery:	10,8 V - 2,0 Ah

	L mm	B mm	H mm	Spare carbon brushes set	Battery pack	Number of Charger batteries		kg
515.3579	560,0	138,0	245,0	515.3595	515.3592	0	0	4,10
515.3580	560,0	138,0	245,0	515.3595	515.3592	1	1	5,10
515.3581	560,0	138,0	245,0	515.3595	515.3592	2	1	5,20

BATTERY BLIND RIVET GUN

Cordless riveting tool pistol

- Handy and ergonomic dual component housing
- Universal use for aluminium and steel rivets Ø 2.4/3.2/4.0/4.8 mm
- Approx. 220 rivets per battery
- With practical clockwise and anticlockwise reversing function
- Short set-up time
- Fast change of rivets
- Short processing time
- Stepless controllable motor speed through electronic switch
- 40% extended lifespan due to changeable special carbon brush conductors
- With lithium-ion high performance rechargeable battery
- Includes automatic turn off charging station
- Fast charging function (1 hour)
- Blow mould plastic housing
- In durable plastic storage case

Technical data:

Rivet sizes:	2,4 / 3,2 / 4,0 / 4,8 mm
Stroke length:	15 mm
Vibration acceleration:	3,2 m/s²
Noise performance level:	86,9 dbA
Noise pressure level:	75,9 dbA
Driving power:	4.900
Electrical Voltage:	10,8 V
Rechargeable battery:	10,8 V - 2,0 Ah

	L mm	B mm	H mm	Spare carbon brushes set	Battery pack	Number of Charger batteries		kg
515.4104	235,0	55,0	200,0	515.3595	515.3592	0	0	2,04
515.4105	235,0	55,0	200,0	515.3595	515.3592	1	1	2,80
515.4106	235,0	55,0	200,0	515.3595	515.3592	2	1	2,85

RECHARGEABLE BATTERIES AND CHARGERS

Universal spare batteries

- High performance lithium-ion battery
- Impact resistant polyethylene housing

Technical data:

Battery type:	Lithium-ion high performance rechargeable battery
Charging time:	1 hour
Working temperature:	-5° / +45°

	⚡	Ah	L mm	B mm	H mm	g
515.3592	10,8 V	1,5	60,5	54,0	84,8	200

Universal push in batteries

- High performance lithium-ion battery
- Intergrated automatic safety switching off
- With control LED to discharge
- Impact resistant polyethylene housing
- Ca. 1 hour charge time

Technical data:

Battery type:	Lithium-ion high performance rechargeable battery
Charging time:	1 hour
Working temperature:	-5° / +45°

	⚡	Ah	L mm	B mm	H mm	g
515.3597	10,8 V	1,5	73,0	80,0	109,6	300
515.3599	18 V	3,0	73,0	80,0	129,8	800

Universal fast charger

- Suitable for 10,8 V Ah lithium ion high performance rechargeable battery
- Integrated automatic safety switching off
- Impact resistant polyethylene housing

Technical data:

Battery type:	10,8 V
Charging time:	1 hour
Charging voltage:	AC 100 - 240 V ~ 50 / 60 Hz
Working temperature:	-5° / +45°

	L mm	B mm	H mm	g
515.3590	145,0	100,0	55,0	500

Universal fast charger

- Suitable for 18,0 V Ah lithium ion high performance rechargeable battery
- Integrated automatic safety switching off
- Impact resistant polyethylene housing

Technical data:

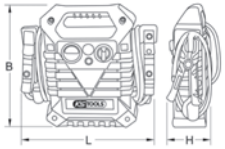
Battery type:	10,8 V - 18,0 V
Charging time:	1 hour
Charging voltage:	AC 100 - 240 V ~ 50 / 60 Hz
Working temperature:	-5° / +45°

	L mm	B mm	H mm	g
515.3591	175,0	115,0	65,0	700

BATTERY BOOSTER MOBILE STARTING AID

12 V Battery Booster - mobile starting aid 700 A

- Ideal for petrol and diesel engines in cars through to transporters
- Fully insulated terminal clamps (1000 A)
- Integrated electronics protection
- Charge control indicator at press of button
- Accoustic warning tone if the polarity is reversed
- 1.6 m cable length
- With sturdy 35 mm² cable cross section
- Current-free cable connection to the vehicle battery
- Supplied with battery charger and cable set
- Cable can be conveniently stored on the housing
- Impact-resistant housing with rubberised base area



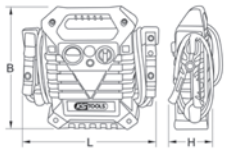
Technical data:

Battery:	12 Volt / 22 Ah
Starting current:	700 A
Peak current:	2200 A
Cable cross section:	35 mm²
Battery charger:	12V DC / 4 A

	L mm	B mm	H mm	Charger spare	Charging cable	kg
550.1710	405,0	380,0	160,0	550.1711	550.1712	10,00

12 V + 24 V Battery Booster - mobile starting aid 1400 A

- Ideal for petrol and diesel engines in cars through to transporters
- Fully insulated terminal clamps (1000 A)
- Integrated electronics protection
- Charge control indicator at press of button
- Accoustic warning tone if the polarity is reversed
- 1.6 m cable length
- With sturdy 35 mm² cable cross section
- Current-free cable connection to the vehicle battery
- Automatic mains charger and cable set included in scope of supply
- Cable can be conveniently stored on the housing
- Impact-resistant housing with rubberised base area



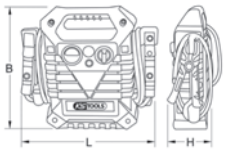
Technical data:

Battery:	2 x 12 Volt / 22 Ah
Starting current:	1400 / 700 A
Peak current:	4400 / 2200 A
Cable cross section:	35 mm²
Battery charger:	12V DC / 4 A

	L mm	B mm	H mm	Charger spare	Charging cable	kg
550.1720	405,0	380,0	180,0	550.1721	550.1712	18,00

12 V + 24 V Battery Booster - mobile starting aid 1700 A

- Ideal for petrol and diesel engines in cars through to transporters
- Fully insulated terminal clamps (1000 A)
- Integrated electronics protection
- With external safety fuse
- Charge control indicator
- Accoustic warning tone if the polarity is reversed
- 1.72 m cable length
- With sturdy 50 mm² cable cross section
- Current-free cable connection to the vehicle battery
- Battery charger, cable set and safety fuse included in the delivery
- Cable can be conveniently stored on the housing
- Impact proof housing



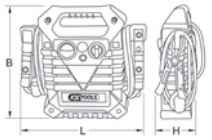
Technical data:

Battery:	2 x 12 Volt / 22 Ah
Starting current:	1700/850 A
Peak current:	5000/2500 A
Cable cross section:	50 mm²
Battery charger:	12V DC / 4 A
Safety fuse:	500 A

	L mm	B mm	H mm	Charger spare	Replacement fuse	Charging cable	kg
550.1820	390,0	410,0	200,0	550.1826	550.1821	550.1812	24,18

12 V Battery Booster - mobile starting aid 850 A

- Ideal for petrol and diesel engines in cars through to transporters
- Fully insulated terminal clamps (1000 A)
- Integrated electronics protection
- With external safety fuse
- Charge control indicator
- Accoustic warning tone if the polarity is reversed
- 1.6 m cable length
- With sturdy 35 mm² cable cross section
- Current-free cable connection to the vehicle battery
- Supplied with battery charger and cable set
- Cable can be conveniently stored on the housing
- Impact proof housing



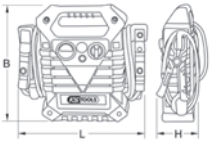
Technical data:

Battery:	12 Volt / 22 Ah
Starting current:	850 A
Peak current:	2500 A
Cable cross section:	35 mm²
Battery charger:	12V DC / 1,5 A

	L mm	B mm	H mm	Charger spare	Charging cable	kg
550.1810	380,0	410,0	160,0	550.1811	550.1812	12,10

12 V + 24 V battery booster - mobile emergency starter 2340 A

- Ideal for petrol and diesel engines in cars through to transporters
- Fully insulated terminal clamps (1000 A)
- Integrated electronics protection
- With external safety fuse
- Charge control indicator
- Accoustic warning tone if the polarity is reversed
- 1.65 m cable length
- With sturdy 50 mm² cable cross section
- Current-free cable connection to the vehicle battery
- Supplied with battery charger and cable set
- Cable can be conveniently stored on the housing
- Robust, movable housing



Technical data:

Battery:	2 x 12 Volt / 25 Ah
Starting current:	2340/1170 A
Peak current:	6200/3100 A
Cable cross section:	50 mm²
Battery charger:	12V DC / 4 A

	L mm	B mm	H mm	Charger spare	Charging cable	kg
550.1825	390,0	535,0	285,0	550.1826	550.1812	24,18

12 V + 24 V Battery Booster - mobile starting aid 3000 A

- Ideal for petrol and diesel engines in cars through to transporters
- Fully insulated terminal clamps (1000 A)
- Integral electronics protection (voltage peak protected)
- Heavy-duty copper cable, cross-section 75 mm²
- 2.0 m cable length
- Intelligent, fully-integrated 3-stage automatic charging unit
- Multi-function display with coloured LED bars
- Intelligent protective circuits
- Polarity protection optical/acoustic
- Current-free cable connection to the vehicle battery
- Robust, wheeled housing with cable storage compartments
- Delivery scope includes vehicle charging cable

Technical data:

Battery:	2 x 12 Volt / 50 Ah
Starting current:	3000 / 1500 A
Peak current:	7200 / 3400 A
Cable cross section:	75 mm²

	L mm	B mm	H mm	kg
550.1725	450,0	300,0	750,0	47,00

CONDENSER BOOSTER / MOBILE STARTING AID

12 V capacitor booster – mobile emergency starter 720 A

- Based on super capacitor technology
- Battery-free emergency starter
- Maintenance-free
- Can be stored for unlimited periods without re-charging
- Ideal for petrol and diesel engines in cars through to transporters
- Fully insulated terminal clamps (1000 A)
- Integrated electronics protection
- With integrated automatic fuse protection
- Charge control indicator
- Acoustic and optical warning tone if the polarity is reversed
- 1.6 m cable length
- With sturdy 35 mm² cable cross section
- Current-free cable connection to the vehicle battery
- Supplied with battery charger and cable set
- Cable can be conveniently stored on the housing
- Impact proof housing

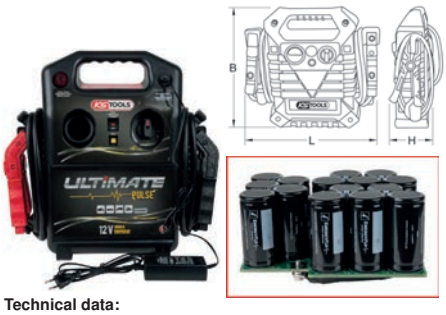
Technical data:

Capacitor:	12 Volt / 288 FARAD
Starting current:	720 A
Peak current:	2250 A
Cable cross section:	35 mm²
Battery charger:	12V DC / 2 A
Safety fuse:	500 A

	L mm	B mm	H mm	Charger spare	Replacement fuse	kg
550.1830	380,0	410,0	160,0	550.1831	550.1832	4,20

12 V capacitor booster – mobile emergency starter 1800 A

- Based on super capacitor technology
- Battery-free emergency starter
- Maintenance-free
- Can be stored for unlimited periods without re-charging
- Ideal for petrol and diesel engines in cars through to transporters
- Fully insulated terminal clamps (1000 A)
- Integrated electronics protection
- With integrated automatic fuse protection
- Charge control indicator
- Acoustic and optical warning tone if the polarity is reversed
- 1.6 m cable length
- With sturdy 50 mm² cable cross section
- Current-free cable connection to the vehicle battery
- Supplied with battery charger and cable set
- Cable can be conveniently stored on the housing
- Impact proof housing



Technical data:

Capacitor:	12 Volt / 500 FARAD
Starting current:	1800 A
Peak current:	9000 A
Cable cross section:	50 mm²
Battery charger:	12V DC / 3 A
Safety fuse:	1000 A

	L mm	B mm	H mm	Charger spare	Replacement fuse	kg
550.1840	380,0	410,0	160,0	550.1841	550.1842	8,20

12 V / 24 V capacitor booster – mobile emergency starter 4700 A / 3700 A

- Based on super capacitor technology
- Battery-free emergency starter
- Maintenance-free
- Can be stored for unlimited periods without re-charging
- Ideal for petrol and diesel engines in cars through to transporters
- Fully insulated terminal clamps (1000 A)
- Integrated electronics protection
- With integrated automatic fuse protection
- Charge control indicator
- Acoustic and optical warning tone if the polarity is reversed
- 1.6 m cable length
- With sturdy 50 mm² cable cross section
- Current-free cable connection to the vehicle battery
- Supplied with battery charger and cable set
- Cable can be conveniently stored on the housing
- Impact proof housing

Technical data:

Capacitor:	12 Volt / 24 Volt / 3400 FARAD
Starting current:	4700/3700 A
Peak current:	20.000/10.000 A
Cable cross section:	50 mm²
Battery charger:	12V DC / 3 A
Safety fuse:	1000 A

	L mm	B mm	H mm	Charger spare	Replacement fuse	kg
550.1850	380,0	410,0	160,0	550.1841	550.1842	16,50

HEAT GUNS

Heat blow gun set

- High-performance hot-air gun with two supply levels
- Seamless temperature regulation
- Adjustment wheel with marking for 6 temperature settings
- Stand for high up-right assembly
- Includes 4 different replacement nozzles
- Supply level 1: 200-300 l/min (max. 450 °C)
- Supply level 2: 350-500 l/min (max. 650 °C)
- Temperature settings: 1≈50 °C/2≈100 °C/3≈200 °C/4≈350 °C/5≈550 °C/6≈650 °C

Application range: Removing paint, soldering pipes, shrinking PVS, welding and bending plastics, drying, thawing etc.

			kg
960.1190	5 pcs	Heat blow gun set	1,11

consists of:

		g
960.1191	Heat blow gun	670
960.1192	Broad blast pipe 75 mm	20
960.1193	Reflector blast pipe	20
960.1194	Restrictor 45mm	20
960.1195	Restrictor 14mm	50

Digital heat blow gun set

- High-performance hot-air gun with two supply levels
- Digital seamless temperature regulation
- Includes jig for up-right assembly
- 10 blower levels
- Includes 4 different replacement nozzles
- LCD display
- Power: 2000W
- Supply level 1: 200-300 l/min (max. 450 °C)
- Supply level 2: 350-500 l/min (max. 650 °C)
- Temperature settings: 1≈50 °C/2≈100 °C/3≈200 °C/4≈350 °C/5≈550 °C/6≈650 °C

Application range: Removing paint, soldering pipes, shrinking PVS, welding and bending plastics, drying, thawing etc.

			g
960.1175	5 pcs	Digital heat blow gun set	850

consists of:

		g
960.1176	Heat blow gun, digital	740
960.1192	Wide nozzle 75 mm	20
960.1193	Reflector nozzle	20
960.1194	Reduction nozzle 45 mm	20
960.1195	Reduction nozzle 14 mm	50

INDUCTION DEVICES

Induction Heat Gun Set

- For loosening rusted and seized connections
- For loosening "insoluble" glued connections
- Induction principle
- Pinpoint heating in seconds
- Heating of components to max. 780 °C (red hot)

Application range: Screws, nuts and bolts, exhaust clamps and pipes, lambda probes, running gear, stuck bearings, ball joints, steering (e.g. tracking adjustment screws), chemically micro-encapsulated threaded connections (bonded), warming of bearing housings during dismantling and assembly

Technical data:

Capacity: 1500 Watt

			kg
500.8420	4 pcs	Induction Heat Gun Set	3,30

consists of:

		g
500.8420-1	Induction heat gun	1830
500.8432	Induction coils 19mm, standard	53
500.8433	Induction coils 22mm, standard	54
500.8450	Induction coil, cable, fully flexible, standard	62

MASTER Induction Heat Gun Set

- For loosening rusted and seized connections
- For loosening "insoluble" glued connections
- Induction principle
- Pinpoint heating in seconds
- Heating of components to max. 780 °C (red hot)

Application range: Screws, nuts and bolts, exhaust clamps and pipes, lambda probes, running gear, stuck bearings, ball joints, steering (e.g. tracking adjustment screws), chemically micro-encapsulated threaded connections (bonded), warming of bearing housings during dismantling and assembly

Technical data:

Capacity: 1500 Watt

Operational voltage: 230V

Cable length: 2,3

			kg
500.8415	12 pcs	MASTER Induction Heat Gun Set	3,88

consists of:

		g
500.8420-1	Induction heat gun	1830
500.8431	Induction coils 15mm, standard	48
500.8432	Induction coils 19mm, standard	53
500.8433	Induction coils 22mm, standard	54
500.8434	Induction coils 26mm, standard	54
500.8435	Induction coils 32mm, standard	64
500.8436	Induction coils 38mm, standard	70
500.8423	Induction coils 22mm, extra long	76
500.8424	Induction coils 26mm, extra long	81
500.8450	Induction coil, cable, fully flexible, standard	62
500.8445	Induction coil, semi-rigid, deformable, universal	42
500.8440	Induction pad	175

Standard Induction coils

- For loosening rusted and seized connections
- For loosening "insoluble" glued connections
- Induction principle
- Pinpoint heating in seconds
- Heating of components to max. 780 °C (red hot)
- Can be used together with induction heat pistol 500.8420-1

Application range: Screws, nuts and bolts, exhaust clamps and pipes, lambda probes, running gear, stuck bearings, ball joints, steering (e.g. tracking adjustment screws), chemically micro-encapsulated threaded connections (bonded), warming of bearing housings during dismantling and assembly

	Ø mm	Length mm	g
500.8431	15	220,0	48
500.8432	19	220,0	53
500.8433	22	220,0	54
500.8434	26	220,0	54
500.8435	32	220,0	64
500.8436	38	220,0	70
500.8437	45	220,0	77

Induction coils, extra long

- For loosening rusted and seized connections
- For loosening "insoluble" glued connections
- Induction principle
- Pinpoint heating in seconds
- Heating of components to max. 780 °C (red hot)
- Extra long
- Can be used together with induction heat pistol 500.8420-1

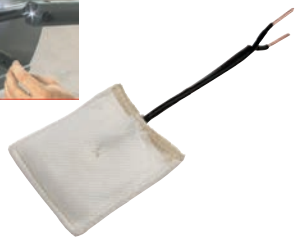
Application range: Screws, nuts and bolts, exhaust clamps and pipes, lambda probes, running gear, stuck bearings, ball joints, steering (e.g. tracking adjustment screws), chemically micro-encapsulated threaded connections (bonded), warming of bearing housings during dismantling and assembly

	Ø mm	Length mm	g
500.8421	15	330,0	50
500.8422	19	330,0	72
500.8423	22	330,0	76
500.8424	26	330,0	81
500.8425	32	330,0	84
500.8426	38	330,0	88
500.8427	45	330,0	96

Induction pad

- Heat-resistant material
- Gentle on painted surfaces
- Flat and flexible surface
- Simple handling
- Can be used together with induction heat pistol 500.8420-1

Application range: Removal of stickers, type plates, emblems, decorative strips, self-adhesive films and small trims on painted surfaces

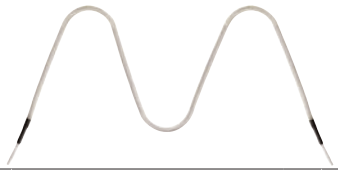


	mm	Length mm	g
500.8440	100 x 100	260,0	175

Semi-rigid deformable induction coil

- Preformed, extra long execution, max. 330 mm
- Ideal for deep applications
- Can be used together with induction heat pistol 500.8420-1

Application range:
Screws, nuts and bolts, exhaust clamps and pipes, lambda probes, running gear, stuck bearings, ball joints, steering (e.g. tracking adjustment screws), chemically micro-encapsulated threaded connections (bonded), warming of bearing housings during dismantling and assembly



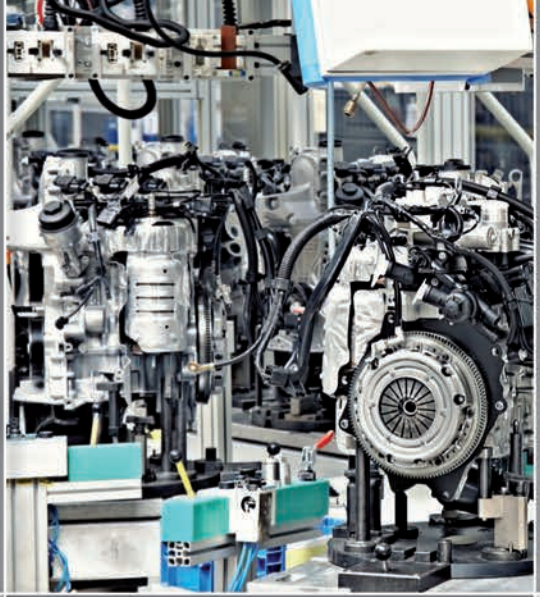
	Length mm	g
500.8445	595,0	42

Fully flexible induction coil cable

- Flexibel like a cable
- Ideal for deep applications
- Perfect adaption to the application
- Can be used together with induction heat pistol 500.8420-1

Application range: Screws, nuts and bolts, exhaust clamps and pipes, lambda probes, running gear, stuck bearings, ball joints, steering (e.g. tracking adjustment screws), chemically micro-encapsulated threaded connections (bonded), warming of bearing housings during dismantling and assembly

	Length mm	g
500.8450	800,0	62

KS TOOLS®

Innovation is our mission!

CORDLESS BATTERY TOOLS

LITHIUM ION TECHNOLOGY

- The high performance cordless tools for the perfect job
- Working without cables with Lithium ion technology
- Ergonomic design, perfect weight distribution







KS TOOLS
PERFECT LIGHT
Innovation is
our mission!

HEAD LAMPS

perfectLight headlamp with focus 140 lumen

- Ideal for very long network independent working
- 3 Watt CREE Chip Power LED
- Luminous flux 140 Lumen
- up to 100 m light range
- Zoom from spot to flood light
- with multifunctional-button: 1W / 3W / Blink
- Adjustable front and head band for comfort and to stay in place
- Lamp can be additionally tilted in 5 click stops
- Weatherproof protection IPX3
- 3 hours lamp duration
- Includes 3 x AAA 1,5V batteries

Technical data:

Illumination period max:	3 hour
Headlight range:	100,0 m
Light current max.:	140 lumen
Luminosity:	3 W
Light source:	3 watt CREE chip power LED
Weatherproof protection:	IPX3
Working temperature:	-10° / +45°C

	Ø mm	Height mm	Depth mm	g
550.1238	30,0	40,0	65,0	170

perfectLight Headlamp with Motion Sensor 120 Lumen

- Ideal for very long network independent working
- extremely powerful light CREE XP-G2 front LED
- 120 lumen luminous flux
- up to 40 m light range
- motion sensor for switching on and off
- two brightness levels
- fast and secure hold due to adjustable headband
- flexible positioning
- Ingress protection according to IP54
- Shock and impact resistant
- 14 hours burn time at low brightness level, 7 hours burn time at high brightness level
- Includes 3 x AAA 1,5V batteries

Technical data:

Illumination period min:	7 hour
Illumination period max:	14 hour
Headlight range:	40,0 m
Light current min.:	60 lumen
Light current max.:	120 lumen
Luminosity:	2 W
Light source:	CREE XP-G2 LED
Weatherproof protection:	IP54
Working temperature:	-10° / +40°C

	Width mm	Height mm	Depth mm	g
150.4410	64,0	48,0	44,0	105

FLASHLIGHT

perfectLight torch 85 lumen

- Ideal for very long network independent working
- 1 Watt CREE Chip LED
- 85 Lumens luminous flux
- 25 m headlight range
- Ideal for smock and shirt pockets
- Clip for the breast pocket
- Weatherproof protection IPX3
- 5 - 10 hours lamp duration
- Includes 2 x AA 1,5 V batteries
- Ultra light and impact resistant aluminium housing

Technical data:

Illumination period min:	5 hour
Illumination period max:	10 hour
Headlight range:	25,0 m
Light current max.:	85 lumen
Luminosity:	1 W
Light source:	1 watt CREE chip LED
Weatherproof protection:	IPX3
Working temperature:	-10° / +45°C

	Ø mm	Length mm	g
150.4370	16,0	140,0	92

perfectLight torch 50 Lumen

- Ideal for very long network independent working
- High power LED
- 50 Lumens luminous flux
- up to 50 m light range
- with practical wrist strap
- Ingress protection according to IP54
- ca 10 hours lamp duration
- Includes 3 x AAA 1,5V batteries

Technical data:

Illumination period max:	10 hour
Headlight range:	50,0 m
Light current max.:	50 lumen
Luminosity:	1 W
Light source:	High power LED
Weatherproof protection:	IP54
Working temperature:	-10° / +40°C

	Ø mm	Length mm	g
150.4415	28,0	100,0	84

perfectLight torch 130 Lumen

- Ideal for very long network independent working
- powerful CREE, XP-G LED
- Luminous flux 130 Lumen
- up to 125 m light range
- focusable light beam
- with practical wrist strap
- robust rubber coating
- Ingress protection according to IP54
- Shock and impact resistant
- approx. 7 hours burn time
- Includes 3 x AAA 1,5V batteries

Technical data:

Illumination period max:	7 hour
Headlight range:	125,0 m
Light current max.:	130 lumen
Luminosity:	2,5 W
Light source:	CREE XP-G LED
Weatherproof protection:	IP54
Working temperature:	-10° / +40°C

	Ø mm	Length mm	g
150.4420	32,0	110,0	130

perfectLight 12+24V-LED torch 130 Lumen

- Ideal for very long network independent working
- powerful LED
- Luminous flux 130 Lumen
- up to 100 m light range
- focusable light beam
- with removable plastic protection handle
- Splash water protected according to IP30
- easily and quickly rechargeable over the 12+24V cigarette lighter socket
- 2 hours charging time
- 1 hour burn time

Technical data:

Illumination period max:	1 hour
Headlight range:	100,0 m
Light current max.:	130 lumen
Luminosity:	2 W
Light source:	CREE XP-G LED
Weatherproof protection:	IP30
Working temperature:	-10° / +40°C
Battery technologie:	Lithium-ion
Battery capacity:	0,55 Ah
Battery voltage:	3,7 V

	Ø mm	Length mm	g
150.4425	30,0	128,0	100

INSPECTION LAMPS

Flexible inspection lamp with magnet

- Ideal for very long network independent working
- Halogen lamp
- Flexible long shaft, 400 mm
- With optional clip-on light-flooded magnet
- Includes extension 500 mm
- Approx. 60 hours lamp duration
- Includes 3 x AA batteries
- Impact proof housing

Technical data:

Illumination period max:	60 hour
Light current max.:	10000 lumen
Luminosity:	3,2 W
Light source:	Halogen

	Ø mm	Length mm	Spare bulb	
550.1185	7,0	600,0	550.1188	120

Flexible inspection lamp with magnet and mirror

- Ideal for very long network independent working
- Halogen lamp
- Flexible long shaft, 400 mm
- With optional attachable flexible mirror (20 x 35 mm)
- With optional clip-on light-flooded magnet
- Includes extension 500 mm
- Approx. 60 hours lamp duration
- Includes 3 x AA batteries
- Impact proof housing

Technical data:

Illumination period max:	60 hour
Light current max.:	10000 lumen
Luminosity:	3,2 W
Light source:	Halogen

	Ø mm	Length mm	Spare bulb	
550.1138	7,0	600,0	550.1188	215

Flexible inspection set

- Ideal for very long network independent working
- Halogen lamp
- Flexible shaft
- Includes flexible fibreglass attachment
- Clip for the breast pocket
- Approx. 60 hours lamp duration
- Includes 3 x 1,5 V AAA batteries
- Impact proof housing

Technical data:

Illumination period max:	60 hour
Light current max.:	192 lumen
Luminosity:	3,2 W
Light source:	Halogen

550.1160	4 pcs	Flexible inspection set	230

perfectLight 5 + 1 Inspection Lamp 100 Lumen

- Ideal for very long network independent working
- powerful spot LED
- extremely powerful light COB front LED
- three light modes: two brightness levels and a spot
- 3 luminous fluxes: COB Front 50 and 100 Lumen and spot-light 25 Lumen luminous flux
- with belt clip
- Ingress protection according to IP20
- 3 hours lamp duration
- Includes 3 x AAA 1,5V batteries
- impact-resistant polycarbonate housing

Technical data:

Illumination period max:	3 hour
Headlight range:	10,3 m
Light current min.:	25 lumen
Light current max.:	100 lumen
Luminosity:	1,5 W
Light source:	5 +1 SMD LED
Weatherproof protection:	IP20
Shock resistance level:	IK07
Working temperature:	-10° / +40°C

	Length mm	
150.4435	163,0	67

perfectLight 3-in-1 Mini Inspection Lamp 200 Lumen, foldaway

- Ideal for very long network independent working
- powerful spot LED
- extremely powerful light COB front LED
- Inspection light, working light and flashlight in one
- 120 lumen luminous flux and spotlight 30 lumen
- 270° foldaway housing
- Ultra slim and compact design
- Extremely powerful illumination
- Magnetic
- With hooks for flexible positioning
- Ingress protection according to IP20
- 2 hours charging time
- 2.5 hours / 6 hours lamp duration

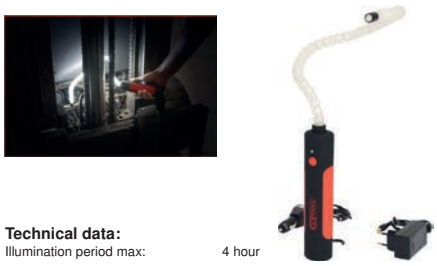
Technical data:

Illumination period min:	2,5 hour
Illumination period max:	6 hour
Headlight range:	12,7 m
Light current min.:	30 lumen
Light current max.:	120 lumen
Luminosity:	1,2 W
Light source:	COB LED
Weatherproof protection:	IP20
Shock resistance level:	IK07
Working temperature:	-10° / +40°C
Battery technologie:	Lithium-ion
Battery capacity:	0,7
Battery voltage:	3,7 V

	Length mm	
150.4430	215,0	228

Flexible inspection lamp 400 Lumen

- Ideal for very long network independent working
- 6 Watt LED + LED headlight
- Luminous flux 400 Lumen
- Flexible shaft
- Revolving hooks for suspending
- Magnetic
- With control LED to discharge
- Includes automatic turn off charging station
- Ingress protection according to IP20
- Shock and impact resistant
- 4-5 hours charging time
- 4 hours lamp duration
- Impact resistant ABS housing
- Housing body covered with high quality rubber



Technical data:

Illumination period max:	4 hour
Headlight range:	10,0 m
Light current max.:	400 lumen
Luminosity:	6 W
Light source:	6 Watt LED + LED headlight
Weatherproof protection:	IP20
Shock resistance level:	IK07
Working temperature:	0° / +40°C
Battery technologie:	Lithium-ion
Battery capacity:	2,2
Battery voltage:	7,4 V
AC voltage range alternating voltage:	110 - 230 V
DC voltage range direct voltage:	12 - 24 V

	Ø mm	Length mm	
150.4345	45,0	715,0	390

UV LAMPS

Flexible UV inspection lamp

- Ideal for very long network independent working
- LED UV lamp
- Flexible shaft
- Localizes leaks in air conditioning systems
- Clip for the breast pocket
- Approx. 60 hours lamp duration
- Impact proof housing

	Ø mm	Length mm	Spare bulb	g
550.1165	7,5	450,0	550.1167	150

Cordless UV leak detection light set

- Wireless design
- LED UV lamp
- Extremely high light power
- Ideal for locating leaks in air conditioning pipes
- Great for detecting leaks at close range
- Includes UV glasses
- Compatible with all industry-standard leak detection additives
- Includes 3 x AAA batteries
- Impact proof housing

			g
550.1190	2 pcs	Cordless UV leak detection light set	400

consists of:

		g
550.1191	Battery-powered UV leak detection lamp	150
550.1182	UV glasses	42

UV leak detection light set

- UV lamp
- Extremely high light power
- Ideal for locating leaks in air conditioning pipes
- Great for detecting leaks at close range
- Revolving head
- Self-powering by attaching crocodile clips to a 12V battery
- With long cable for flexible use
- Includes UV glasses
- Compatible with all industry-standard leak detection additives
- Impact proof housing

			g
550.1180	2 pcs	UV leak detection light set	460

consists of:

		g
550.1181	UV leak detection lamp	360
550.1182	UV glasses	42

HAND LAMPS

perfectLight Hand Lamp 200 Lumen, foldaway

- Ideal for very long network independent working
- powerful spot LED
- extremely powerful light COB front LED
- 200 lumen luminous flux and spotlight 50 lumen
- Revolving hooks for suspending
- foldaway magnetic stand
- Ingress protection according to IP20
- Shock and impact resistant
- Includes 3 x AAA 1,5V batteries

Technical data:

Illumination period max:	6 hour
Headlight range:	19,4 m
Light current min.:	50 lumen
Light current max.:	200 lumen
Luminosity:	2,5 W
Light source:	COB LED
Weatherproof protection:	IP20
Shock resistance level:	IK07
Working temperature:	-10° / +40°C

	Length mm	Width mm	Depth mm	g
150.4445	205,0	39,0	28,0	120

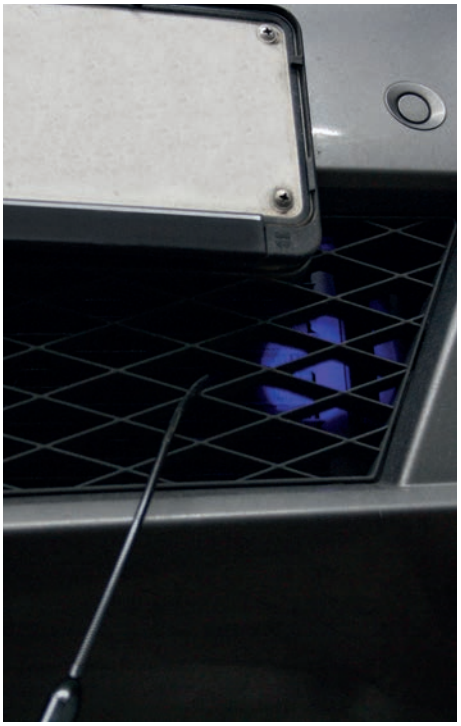
perfectLight Hand Lamp 500 Lumen

- Ideal for very long network independent working
- powerful spot LED
- extremely powerful light CREE XP-E2 front LED
- three light modes: two brightness levels and a spot
- 3 luminous fluxes: Front 250 and 500 Lumen and spotlight 175 Lumen luminous flux
- Revolving hooks for suspending
- foldaway magnetic stand
- Includes automatic turn off charging station
- Splash water protected according to IP65
- Shock and impact resistant
- 5 hours charging time
- 6 hours / 3 hours lamp duration
- Housing body covered with high quality rubber

Technical data:

Illumination period min:	3 hour
Illumination period max:	6 hour
Headlight range:	61,5 m
Light current min.:	175 lumen
Light current max.:	500 lumen
Luminosity:	4 W
Light source:	CREE XP-E2
Weatherproof protection:	IP65
Shock resistance level:	IK07
Working temperature:	-10° / +40°C
Battery technologie:	Lithium-ion
Battery capacity:	2,2
Battery voltage:	3,8 V

	Length mm	Width mm	Depth mm	g
150.4440	190,0	60,0	29,0	240



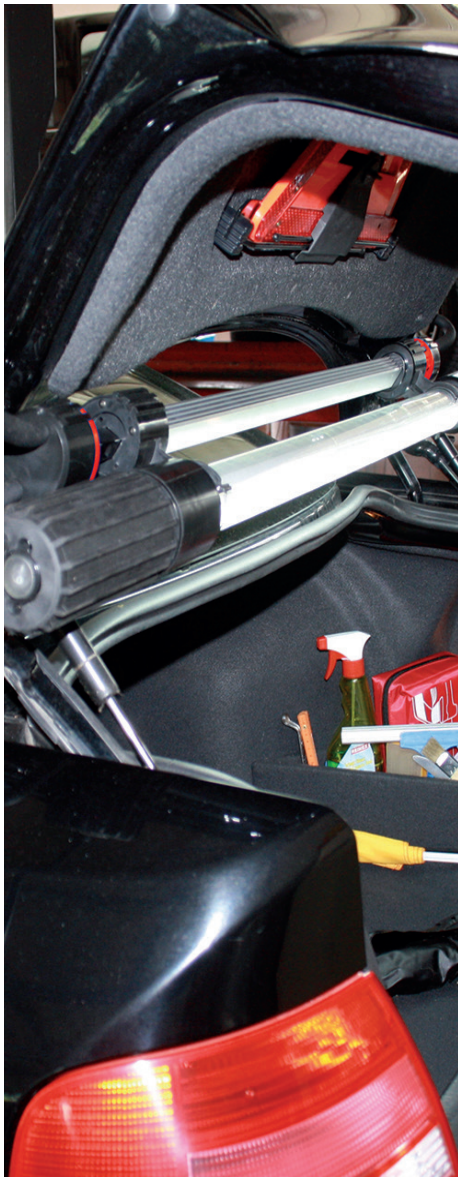
perfectLight Hand Lamp 600 Lumen

- Ideal for very long network independent working
- High power LED spot
- COB LED Stripe dimmable
- 600 lumen luminous flux and spotlight 120 lumen
- Magnetic stand can be rotated through 360° and tilted through 45
- Micro-USB charging connector on the side
- Fold-out hook for suspension
- Capacity indicator
- Ingress protection according to IP20
- Shock and impact resistant
- 4 hours charging time
- 15 hours burn time at lowest level
- 2 hours burn time at highest level
- Ultra slim COB LED housing (11 x 21mm) for particularly difficult to access places
- Plastic housing body covered with high-quality rubber

Technical data:

Illumination period min:	2 hour
Illumination period max:	15 hour
Headlight range:	20,0 m
Light current min.:	120 lumen
Light current max.:	600 lumen
Luminosity:	3 W
Light source:	COB LED
Weatherproof protection:	IP20
Shock resistance level:	IK07
Working temperature:	-10° / +40°C
Battery technologie:	Lithium-ion
Battery capacity:	2.6
Battery voltage:	3,7 V

	Length mm	Width mm	Depth mm	g
150.4460	385,0	34,0	34,0	246



INSPECTION HAND LAMPS

Pro workshop inspection hand lamp 8 watts

- Industrial quality
- Double insulation
- Protection pipe out of polycarbonate
- Impact resistant - impact strength IK09
- High quality rubber hand grip casing
- Revolving hooks for suspending
- With contour connector according to CEE 7/17
- Ingress protection according to IP20
- With integrated connector
- Lamp extension tube interchangeable
- Includes lamp

Technical data:

Luminosity:	8 W
Cable length:	5 m
Cable:	H05RN-F 2x1,0 mm²
AC voltage range alternating voltage:	220 - 240 V
Protection class:	II
Weatherproof protection:	IP20

	Ø mm	Length mm	g
550.1376	30,0	500,0	660

Pro XL workshop inspection hand lamp 11 watts

- Industrial quality
- Double insulation
- Protection pipe out of polycarbonate
- Impact resistant - impact strength IK09
- High quality rubber hand grip casing
- Revolving hooks for suspending
- With contour connector according to CEE 7/17
- Ingress protection according to IP20
- With integrated connector
- Lamp extension tube interchangeable
- Includes lamp

Technical data:

Luminosity:	11 W
Cable length:	5 m
Cable:	H05RN-F 2x1,0 mm²
AC voltage range alternating voltage:	220 - 240 V
Protection class:	II
Weatherproof protection:	IP20

	Ø mm	Length mm	g
550.1381	35,0	630,0	710

Pro XXL workshop inspection hand lamp 13 watts

- Industrial quality
- Double insulation
- Protection pipe out of polycarbonate
- Impact resistant - impact strength IK09
- High quality rubber hand grip casing
- Revolving hooks for suspending
- With contour connector according to CEE 7/17
- Ingress protection according to IP20
- With integrated connector
- Lamp extension tube interchangeable
- Includes lamp

Technical data:

Luminosity:	13 W
Cable length:	5 m
Cable:	H05RN-F 2x1,0 mm²
AC voltage range alternating voltage:	220 - 240 V
Protection class:	II
Weatherproof protection:	IP20

	Ø mm	Length mm	g
550.1386	35,0	720,0	750

Professional XXL workshop inspection hand lamp with expander holder, 30 watts

- Industrial quality
- Double insulation
- Protection pipe out of polycarbonate
- Optimum lighting
- Self-clamping and securable
- Span length = 1,335 - 1,800 mm
- Expanding bracket with large, adjustable and rubber coated hooks
- Impact resistant - impact strength IK09
- High quality rubber hand grip casing
- Revolving hooks for suspending
- With contour connector according to CEE 7/17
- Ingress protection according to IP54
- With integrated connector
- Lamp extension tube interchangeable
- Includes lamp

Technical data:

Luminosity:	30 W
Adjusatbel length:	1.335-1.800 mm
Cable length:	5 m
Cable:	H05RN-F 2x1,0 mm²
AC voltage range alternating voltage:	220 - 240 V
Protection class:	II
Weatherproof protection:	IP54

	Ø mm	Length mm	kg
150.4305	74,0	1335,0	2,60

Professional XXL LED workshop inspection hand lamp with expander holder 1,300 lumens

- Industrial quality
- Protection pipe out of polycarbonate
- Optimum lighting
- Self-clamping
- Span width 1.270 - 2.100 mm
- Expanding bracket with large, adjustable and rubber coated hooks
- Impact resistant - impact strength IK09
- Revolving hooks for suspending
- With contour connector according to CEE 7/17
- Ingress protection according to IP44

Technical data:

Light current max.:	1300 lumen
Luminosity:	15 W
Adjusatbel length:	1.270-2.100 mm
Cable length:	5 m
Cable:	H05RN-F 2x0,75 mm²
AC voltage range alternating voltage:	220 - 240 V
Protection class:	II
Weatherproof protection:	IP 44

	Ø mm	Length mm	kg
150.4297	35,0	1270,0	2,30

ACCESSORIES FOR FLASH LIGHTS

Magnet holder for workshop lamps

- Universal mouting clip for workshop lamps
- Extra large pivoting range
- Magnet completely rubberised
- Stop peg out of spring steel

	max Ø pipe mm	Ø magnetic base mm	g
150.4219	43,0	31,0	79

Workshop cable reel

- Practical and space-saving
- Extra strong, automatic return mechanism
- With endstopper
- 180° freely revolving
- Cable working length 20 m
- Connection cable 1.5 m
- Metal wall reinforcement rail 270 mm

Technical data:

Work cable length m:	20 m
Connection cable length:	1,5 m
Operational voltage:	230 V

		kg
150.4320	Workshop cable reel	6,50

WORK LAMPS

perfectLight LED-Mini-Working Light 900 Lumen

- Ideal for very long network independent working
- extremely powerful light COB front LED
- 2 luminous fluxes: 450 and 900 lumens
- Ingress protection according to IP54
- 6 AA 1.5V batteries included
- Housing cover also rubber
- fold-out stand

Technical data:

Illumination period min:	3 hour
Illumination period max:	12 hour
Light current min.:	450 lumen
Light current max.:	900 lumen
Luminosity:	12 W
Light source:	COB LED
Weatherproof protection:	IP54
Shock resistance level:	IK07
Working temperature:	-10° / +40°C

	Height mm	Width mm	Depth mm	g
150.4450	185,0	195,0	45,0	580

Professional cold light work lamp 36 watts

- Industrial quality
- 2.900 lumens luminous flux
- Polycarbonate protection glass
- Housing cover also rubber
- Impact resistant impact strength IK10
- Hooks for double sided applications and pedestal with contour connector according to CEE 7/17
- Ingress protection according to IP54
- With integrated connector
- Lamp extension tube interchangeable
- Includes lamp
- Blow mould plastic housing

Technical data:

Light current max.:	2900 lumen
Luminosity:	36 W
Cable length:	5 m
Voltage:	230 V
Accessory outlet:	-
Protection class:	II
Weatherproof protection:	IP54

	Height mm	Width mm	Depth mm	Spare bulb	kg
150.4255	230,0	340,0	110,0	150.4256	2,36

Professional cold light work lamp 72 watts

- Industrial quality
- 5.800 lumens luminous flux
- Polycarbonate protection glass
- Housing cover also rubber
- Impact resistant impact strength IK10
- Hooks for double sided applications and pedestal with contour connector according to CEE 7/17
- With 2 x 230 V isolated outlet on the back
- Ingress protection according to IP54
- With integrated connector
- Lamp extension tube interchangeable
- Includes lamp
- Blow mould plastic housing

Technical data:

Light current max.:	5800 lumen
Luminosity:	72 W
Cable length:	5 m
Voltage:	230 V
Accessory outlet:	2 x 230 V Schuko
Protection class:	II
Weatherproof protection:	IP54

	Height mm	Width mm	Depth mm	Spare bulb	kg
150.4260	285,0	495,0	110,0	150.4261	5,02

Professional cold light work lamp 108 watts

- Industrial quality
- 8.700 lumens luminous flux
- Polycarbonate protection glass
- Housing cover also rubber
- Impact resistant impact strength IK10
- Hooks for double sided applications and pedestal with contour connector according to CEE 7/17
- With 1 x 230 V isolated outlet on the back
- Ingress protection according to IP54
- With integrated connector
- Lamp extension tube interchangeable
- Includes lamp
- Blow mould plastic housing

Technical data:

Light current max.:	8700 lumen
Luminosity:	108 W
Cable length:	5 m
Voltage:	230 V
Accessory outlet:	1 x 230 V Schuko
Protection class:	II
Weatherproof protection:	IP54

	Height mm	Width mm	Depth mm	Spare bulb	kg
150.4265	290,0	500,0	110,0	150.4261	5,82

ACCESSORIES FOR WORK LAMPS

Extending tripod for work lights

- Universal stand for working lamps
- Lamp holder with welded-in 10mm steel thread
- Optimal illuminating guaranteed
- Secure stand
- Extremely compact transportation size
- On fold away tripod foot part
- Fully adjustable via 360° locking system
- Working height from 1.35m to 3m
- With cable holder device
- Powder-coated steel construction
- Maximum load of 10kg

	Height min in mm	Height max in mm	Load capacity kg	kg
150.4491	1350,0	3000,0	10	6,00

Extending tripod for work lights with castors

- Universal stand for working lamps
- Robust castors for uneven surfaces
- Universal lamp holder by welded 10mm steel thread
- Ensures optimal illumination2 rollers lockable
- 2 rollers lockable
- Extremely compact transportation size
- On fold away tripod foot part
- Fully adjustable via 360° locking system
- Working height from 0.70m to 1.90m
- With cable holder device
- Powder-coated steel construction
- Maximum load of 10kg

	Height min in mm	Height max in mm	Load capacity kg	kg
150.4492	700,0	1900,0	10	6,00


KS TOOLS
Innovation is
our mission!

WORKBENCHES

Mechanics workbench

- Mobile workbench ideally for vice work
- Foldable for transporting
- Wooden work surface
- Metal protective edge
- High level of stability due to splayed table legs

	Total depth mm	Width mm	Depth mm	kg
914.1300	850,0	1070,0	620,0	40,00

Mechanics workbench

- Mobile workbench ideally for vice work
- Foldable for transporting
- Laminated wooden work surface
- Waterproof and resistant to chemicals
- Metal protective edge
- High level of stability due to splayed table legs

	Total depth mm	Width mm	Depth mm	kg
914.2000	850,0	1220,0	620,0	34,00

WORKBENCHES

Workbench

- Robust and stable steel construction with 1,0 mm sheet steel distortion resistant
- With floor levelling screws (0 - 45mm)
- High level of stability
- General construction from robust steel square type tube
- High stability due to all metal parts being welded
- Electrostatic powder coating
- Worktop solid beech

	Total depth mm	Width mm	Depth mm	kg
865.0013	840,0	1200,0	500,0	27,00

Workbench with 1 door

- Robust and stable steel construction with 1,0 mm sheet steel distortion resistant
- With floor levelling screws (0 - 45mm)
- High level of stability
- General construction from robust steel square type tube
- High stability due to all metal parts being welded
- Lockable door
- Electrostatic powder coating
- Worktop solid beech

	Total depth mm	Width mm	Depth mm	kg
865.0012	840,0	600,0	600,0	42,00

Workbench with 3 drawers

- Robust and stable steel construction with 1,0 mm sheet steel distortion resistant
- With floor levelling screws (0 - 45mm)
- High level of stability
- Worktop solid beech
- General construction from robust steel square type tube
- High stability due to all metal parts being welded
- Central locking system on all drawers through the cylinder lock
- Ball bearing drawer runners
- Drawers are 100% extendable
- Drawers with non-slip rubber mat
- Side mounted handle
- Electrostatic powder coating

	Total depth mm	Width mm	Depth mm	kg
865.0010	840,0	600,0	600,0	51,00

Workbench with 1 door

- Robust and stable steel construction with 1,0 mm sheet steel distortion resistant
- High level of stability
- General construction from robust steel square type tube
- Worktop solid beech
- Metal protective edge
- High stability due to all metal parts being welded
- Lockable door
- Electrostatic powder coating

Technical data:

Total load capacity: 400,0 kg

	Total depth mm	Width mm	Depth mm	kg
865.0001	840,0	1200,0	600,0	71,00

PROFI workbench with 2 doors

- Robust and stable steel construction with 1,0 mm sheet steel distortion resistant
- High level of stability
- General construction from robust steel square type tube
- Worktop solid beech
- Metal protective edge
- High stability due to all metal parts being welded
- Lockable door
- Electrostatic powder coating

Technical data:

Total load capacity: 400,0 kg

	Total depth mm	Width mm	Depth mm	kg
865.0002	840,0	1200,0	600,0	85,00

Workbench with 3 drawers and 1 door

- Robust and stable steel construction with 1,0 mm sheet steel distortion resistant
- High level of stability
- General construction from robust steel square type tube
- Worktop solid beech
- Metal protective edge
- High stability due to all metal parts being welded
- Lockable door
- Central locking system on all drawers through the cylinder lock
- Ball bearing drawer runners
- Drawers are 100% extendable
- Side mounted handle
- Electrostatic powder coating

Technical data:

Total load capacity: 400,0 kg

Load capacity of each drawer: 35,0 kg

	Total depth mm	Width mm	Depth mm	kg
865.0003	840,0	1200,0	600,0	86,00

Workbench with 4 drawers and 1 door

- Robust and stable steel construction with 1,0 mm sheet steel distortion resistant
- With floor levelling screws (0 - 45mm)
- High level of stability
- General construction from robust steel square type tube
- Worktop solid beech
- High stability due to all metal parts being welded
- Lockable door
- Central locking system on all drawers through the cylinder lock
- Ball bearing drawer runners
- Drawers are 100% extendable
- Side mounted handle
- Electrostatic powder coating

Technical data:

Total load capacity: 400,0 kg

Load capacity of each drawer: 35,0 kg

	Total depth mm	Width mm	Depth mm	kg
865.0006	840,0	1200,0	500,0	99,00

Workbench with 8 drawers

- Robust and stable steel construction with 1,0 mm sheet steel distortion resistant
- With floor levelling screws (0 - 45mm)
- High level of stability
- Worktop solid beech
- General construction from robust steel square type tube
- High stability due to all metal parts being welded
- Central locking system on all drawers through the cylinder lock
- Ball bearing drawer runners
- Drawers are 100% extendable
- Side mounted handle
- Electrostatic powder coating

Technical data:

Total load capacity: 400,0 kg

Load capacity of each drawer: 35,0 kg

	Total depth mm	Width mm	Depth mm	kg
865.0007	840,0	1200,0	500,0	113,00

Mobile workbench with 6 drawers

- Robust and stable steel construction with 1,0 mm sheet steel distortion resistant
- High level of stability
- Worktop solid beech
- General construction from robust steel square type tube
- High stability due to all metal parts being welded
- Lockable door
- Central locking system on all drawers through the cylinder lock
- Ball bearing drawer runners
- Drawers are 100% extendable
- With two castor wheels 200 mm with rolling and turning brake
- Drawers with non-slip rubber mat
- Side mounted handle
- Electrostatic powder coating

Technical data:

Total load capacity: 400,0 kg

Load capacity of each drawer: 35,0 kg

	Total depth mm	Width mm	Depth mm	kg
865.0011	840,0	1200,0	600,0	103,00

Workbench with 6 drawers

- Robust and stable steel construction with 1,0 mm sheet steel distortion resistant
- High level of stability
- General construction from robust steel square type tube
- Worktop solid beech
- Metal protective edge
- High stability due to all metal parts being welded
- Central locking system on all drawers through the cylinder lock
- Ball bearing drawer runners
- Drawers are 100% extendable
- Drawers with non-slip rubber mat
- Side mounted handle
- Electrostatic powder coating

Technical data:

Total load capacity: 400,0 kg

Load capacity of each drawer: 35,0 kg

	Total depth mm	Width mm	Depth mm	kg
865.0004	840,0	1200,0	600,0	86,00

Mobile workbench with 3 drawers and 1 door

- Robust and stable steel construction with 1,0 mm sheet steel distortion resistant
- High level of stability
- General construction from robust steel square type tube
- Worktop solid beech
- Metal protective edge
- High stability due to all metal parts being welded
- Lockable door
- Central locking system on all drawers through the cylinder lock
- Ball bearing drawer runners
- Drawers are 100% extendable
- Two castor wheels Ø 125 mm with rolling and turning brake
- Drawers with non-slip rubber mat
- Side mounted handle
- Electrostatic powder coating

Technical data:

Total load capacity: 400,0 kg

Load capacity of each drawer: 35,0 kg

	Total depth mm	Width mm	Depth mm	kg
865.0101	840,0	1200,0	600,0	71,00

MODULO Fahrbare Werkbank

- Very stable steel construction with 0,75 mm sheet steel - distortion resistant
- Extreme high level of stability
- Drawer double locking system prevents unintentional opening
- Central locking system on all drawers through the cylinder lock
- Ball bearing drawer runners
- Drawers are 110% extendable
- Beech worktop 25 mm
- Full width metal handle
- Two fixed wheels Ø 125 mm
- Two castor wheels Ø 125 mm with rolling and turning brake
- Side mounted handle
- Electrostatic powder coating

Technical data:

Total load capacity: 450,0 kg

Load capacity of each drawer: 80,0 kg

	Total depth mm	Width mm	Depth mm	kg
899.0004	900,0	1200,0	600,0	125,00

XXL workbench with 3 drawers and 1 door

- Robust and stable steel construction with 1,0 mm sheet steel distortion resistant
- High level of stability
- General construction from robust steel square type tube
- High stability due to all metal parts being welded
- Lockable door
- Worktop solid beech
- Central locking system on all drawers through the cylinder lock
- Ball bearing drawer runners
- Drawers are 100% extendable
- Drawers with non-slip rubber mat
- Electrostatic powder coating

Technical data:

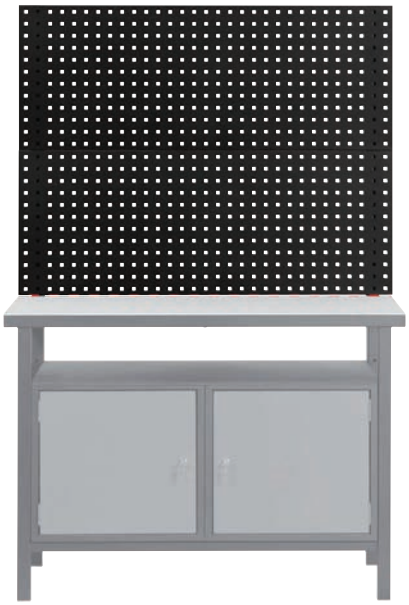
Total load capacity:	400,0 kg
Load capacity of each drawer:	35,0 kg

	Total depth mm	Width mm	Depth mm	kg
865.0201	840,0	2000,0	680,0	86,00

BACK WALL SYSTEMS

Extension back wall system for workbenches

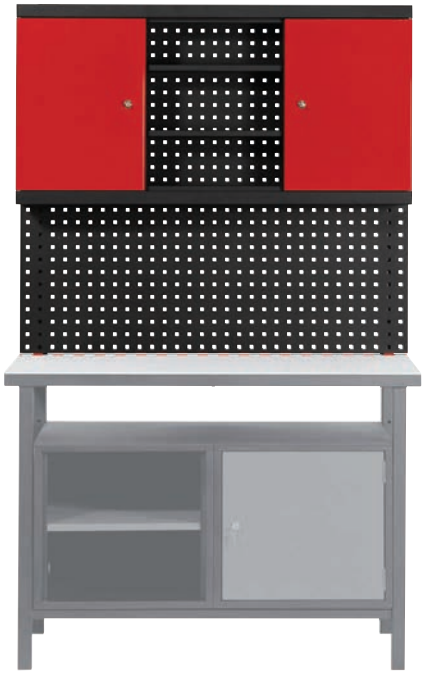
- 2 x posts
- 2 x hole wall
- for additional tools
- clearly organised workspace
- steel sheet construction



	Total depth mm	Width mm	kg
865.0008	710,0	1200,0	8,00

Extension back wall system for workbenches with cupboard

- 2 x posts
- 1 x hole wall
- 1 x high level cupboard system, lockable
- for additional tools
- clearly organised workspace
- steel sheet construction



	Total depth mm	Width mm	Depth mm	kg
865.0009	710,0	1200,0	200,0	38,00

WALL CUPBOARDS

Tool cabinet with 2 doors

- Robust and stable steel construction with 1,0 mm sheet steel distortion resistant
- High level of stability
- Central locking system on all doors through the cylinder lock
- Cupboard back wall with hole system
- suitable for hole measurements 10 x 10 mm - hole distance 38 mm
- 2 mounting rails with 4 connection holes
- Continuous opening without stop
- Electrostatic powder coating

	Total depth mm	Width mm	Depth mm	kg
865.0205	470,0	970,0	200,0	22,00

CLOAKROOM CUPBOARD

Cloakroom stand

- Robust and stable steel construction with 1,0 mm sheet steel distortion resistant
- High level of stability
- Base and reinforced doors
- All parts have electrostatic powder coating
- Compartment with hat base, clothes rail and 3 adjustable coat hooks
- Lockable by cylinder lock

	Compartment	Total depth mm	Width mm	Depth mm	kg
850.0502	2	1800,0	600,0	500,0	26,00
850.0503	3	1800,0	890,0	500,0	35,00

HINGED DOOR CABINET

Lockable cupboard

- Robust and stable steel construction with 1,0 mm sheet steel distortion resistant
- High level of stability
- Central locking system on all drawers through the cylinder lock
- Ball bearing drawer runners
- Drawers are 100% extendable
- Front side edges are rounded
- Inside recumbent hinges and locking bar
- 4 shelves have universal height adjustment
- Internal storage wall with square punching, approx. 340 mm high
- Side mounted handle
- Electrostatic powder coating

Technical data:

Total load capacity:	400,0 kg
Load capacity of each drawer:	35,0 kg

	Total depth mm	Width mm	Depth mm	kg
865.0000	1920,0	780,0	380,0	84,00

Lockable cupboard

- High quality welded sheet metal
- High level of stability
- Reinforced doors with 3-point safety lock
- Inside recumbent hinges and locking bar
- Galvanised shelves can be adjusted in 25 mm intervals
- Load capacity per shelf max. 60 kg with even load distribution
- Powder coated

Technical data:

Total load capacity: 400,0 kg

	Total depth mm	Width mm	Depth mm	kg
865.0005	1950,0	950,0	500,0	68,00

BENCH VICES

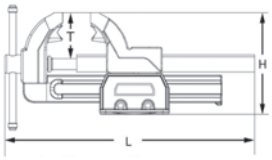
Bench vice

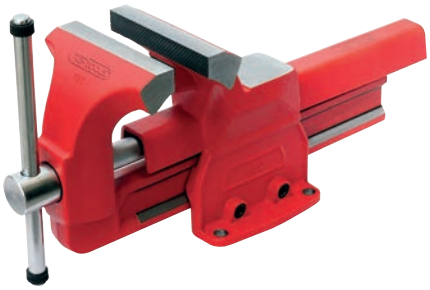
- With swivel base
- Interchangeable jaws
- Includes pipe vice attachment
- Absolutely parallel with adjustable centric drive
- Extra high possible clamping jaws shaped by large embossed casting
- Large anvil for straightening and compression work
- Induction hardened jaws and anvil
- Vise forward opening
- Ground jaws, anvil plate and slide corners
- Special steel

	Jaw length	Jaw length mm	Clamping range mm	kg
914.0004	4”	100,0	120,0	8,70
914.0005	5”	130,0	140,0	11,00
914.0006	6”	150,0	170,0	14,50
914.0008	8”	200,0	200,0	20,50

Bench vice

- With adjusting screw and pipe clamps
- Forged front and rear jaws
- Extra high possible clamping jaws shaped by large embossed casting
- Durable prismatic guide
- With mounting screws for turntable
- Induction hardened jaws and anvil
- Double start trapezoidal thread for quick opening and closing
- Vise forward opening
- Ground jaws, anvil plate and slide corners
- Special tool steel





	Jaw length mm	Clamping range mm	T mm	H mm	L mm	Cudgel ø mm	kg
914.0026	90,0	100,0	70,0	143,0	290,0	12,0	5,00
914.0031	120,0	120,0	83,5	163,0	360,0	14,0	11,00
914.0036	147,0	180,0	100,0	212,0	450,0	16,0	20,00
914.0041	167,0	210,0	112,0	243,0	535,0	18,0	29,00

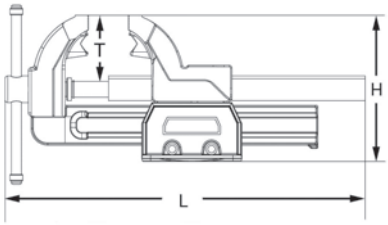
Turntable for bench vice

- Ideal supplement for KS-vices 914.0027 - 914.0041
- Enables accurate positioning of the workpiece
- 360° freely rotatable
- Safe and quick locking via handle
- Flat and stable construction
- Inclusive fastening screws for vice

		Ø mm	kg
914.0027	914.0026	90,0	1,40
914.0032	914.0031	120,0	2,80
914.0037	914.0036	147,0	3,75
914.0042	914.0041	167,0	4,85

Parallel vice with round plate

- With adjusting screw and pipe clamps
- Forged front and rear jaws
- Extra high possible clamping jaws shaped by large embossed casting
- Durable prismatic guide
- With mounting screws for turntable
- Induction hardened jaws and anvil
- Double start trapezoidal thread for quick opening and closing
- Vise forward opening
- Ground jaws, anvil plate and slide corners
- Special tool steel



		Jaw length mm	kg
914.0025	2 pcs	90,0	6,40
914.0030	2 pcs	120,0	13,80
914.0035	2 pcs	147,0	23,75
914.0040	2 pcs	167,0	33,85

Aluminium bench vice protective jaws with textured surface

- Suitable for all bench vices
- The profile is right angled and level parallel
- Integrated special magnet hold the protective jaws safely on the vice
- For material protection and non slip grip on sensitive materials
- For coarse to medium fine work pieces
- Fine textured
- Aluminium

	Protective jaws mm	g
914.0080	100,0	170
914.0081	120,0	210
914.0082	140,0	240
914.0083	160,0	260
914.0084	175,0	290

Aluminium bench vice protective jaws with trapezoid notches

- Suitable for all bench vices
- The profile is right angled and level parallel
- Integrated special magnet hold the protective jaws safely on the vice
- For material protection and non slip grip on sensitive materials
- For different shaped materials
- For trapezoid use
- Aluminium

	Protective jaws mm	g	
914.0085	100,0	145	
914.0086	120,0	187	
914.0087	140,0	210	
914.0088	160,0	226	
914.0089	175,0	248	

Aluminium bench vice protective jaws with rubber insert

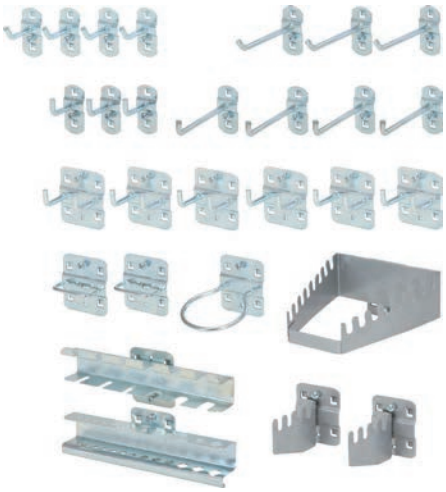
- Suitable for all bench vices
- The profile is right angled and level parallel
- Integrated special magnet hold the protective jaws safely on the vice
- For material protection and non slip grip on sensitive materials
- For thin walled wood and plastic parts
- Smooth
- Aluminium / rubber

	Protective jaws mm	g	
914.0090	100,0	163	
914.0091	120,0	207	
914.0092	140,0	224	
914.0093	140,0	204	
914.0094	175,0	276	

HOOK ASSORTMENT

Hook assortment for hole wall system

- creates an overview of the work area
- suitable for hole measurements 10 x 10 mm - hole distance 38 mm
- fixing screws included
- Baseplate thickness 1,5 mm
- Zinc coated
- Sheet steel



			kg	
860.0888	28 pcs	Hook assortment for hole wall system	1,78	

1 x		150 x 55 mm
1 x		65 x 25 mm
2 x		55 mm
2 x		150 mm
1 x		150 x 55 mm
1 x		150 x 55 mm
14 x		3 x 35 mm - 4 x 50 mm - 4 x 75 mm 3 x 100 mm
6 x		35 mm

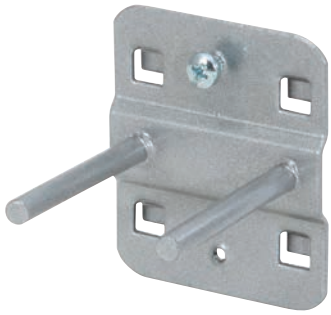
Tool holder with straight end Ø 6 mm

- suitable for hole measurements 10 x 10 mm - hole distance 38 mm
- fixing screws included
- Baseplate thickness 1,5 mm
- Zinc coated
- Sheet steel

	Ø mm	L mm	g	
860.0801	6,0	50,0	30	
860.0802	6,0	100,0	40	
860.0803	6,0	150,0	40	

Double tool holder with straight end Ø 6 mm

- suitable for hole measurements 10 x 10 mm - hole distance 38 mm
- fixing screws included
- Baseplate thickness 1,5 mm
- Zinc coated
- Sheet steel



	Ø mm	L mm	g	
860.0820	6,0	35,0	60	
860.0821	6,0	50,0	80	
860.0822	6,0	75,0	110	

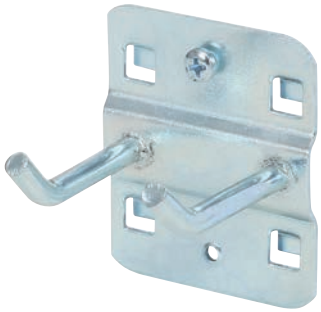
Tool holder with angled hook end Ø 6 mm

- suitable for hole measurements 10 x 10 mm - hole distance 38 mm
- fixing screws included
- Baseplate thickness 1,5 mm
- Zinc coated
- Sheet steel

	Ø mm	L mm	g	
860.0804	6,0	50,0	30	
860.0805	6,0	100,0	40	
860.0806	6,0	150,0	50	
860.0807	6,0	200,0	60	

Double tool holder with angled hook end Ø 6 mm

- suitable for hole measurements 10 x 10 mm - hole distance 38 mm
- fixing screws included
- Baseplate thickness 1,5 mm
- Zinc coated
- Sheet steel



	Ø mm	L mm	g	
860.0812	6,0	35,0	60	
860.0813	6,0	50,0	60	
860.0814	6,0	75,0	80	
860.0815	6,0	150,0	110	

Tool holder with vertical hook end Ø 6 mm

- suitable for hole measurements 10 x 10 mm - hole distance 38 mm
- fixing screws included
- Baseplate thickness 1,5 mm
- Zinc coated
- Sheet steel

	Ø mm	L mm	
860.0809	6,0	35,0	30
860.0810	6,0	75,0	40
860.0811	6,0	125,0	90

Tool clip, double small

- suitable for hole measurements 10 x 10 mm - hole distance 38 mm
- fixing screws included
- Baseplate thickness 1,5 mm
- Zinc coated
- Sheet steel

	Ø mm	
860.0829	6,0	40
860.0830	10,0	40
860.0831	13,0	40
860.0832	16,0	40
860.0833	19,0	50

Pliers holder depth 20 mm

- suitable for hole measurements 10 x 10 mm - hole distance 38 mm
- fixing screws included
- Baseplate thickness 1,5 mm
- Zinc coated
- Sheet steel

	Ø mm	
860.0837	35,0	60
860.0838	55,0	50
860.0839	75,0	60

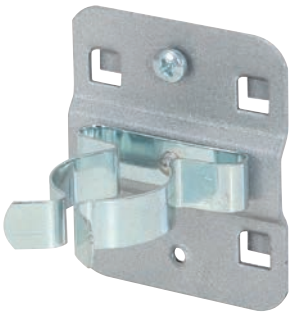
Double tool holder with vertical hook end Ø 6 mm

- suitable for hole measurements 10 x 10 mm - hole distance 38 mm
- fixing screws included
- Baseplate thickness 1,5 mm
- Zinc coated
- Sheet steel

	Ø mm	L mm	
860.0816	6,0	35,0	60
860.0817	6,0	50,0	70
860.0818	6,0	75,0	90
860.0819	6,0	150,0	100

Tool clip, single large

- suitable for hole measurements 10 x 10 mm - hole distance 38 mm
- fixing screws included
- Baseplate thickness 1,5 mm
- Zinc coated
- Sheet steel



	Ø mm	
860.0834	25,0	50
860.0835	28,0	50
860.0836	32,0	50

Round holder

- suitable for hole measurements 10 x 10 mm - hole distance 38 mm
- fixing screws included
- Baseplate thickness 1,5 mm
- Zinc coated
- Sheet steel

	L mm	B mm	
860.0840	65,0	25,0	70

Tool clip, single small

- suitable for hole measurements 10 x 10 mm - hole distance 38 mm
- fixing screws included
- Baseplate thickness 1,5 mm
- Zinc coated
- Sheet steel

	Ø mm	
860.0824	6,0	20
860.0825	10,0	20
860.0826	13,0	20
860.0827	16,0	20
860.0828	19,0	20

Angled hook for nuts and sockets Ø 6 mm

- suitable for hole measurements 10 x 10 mm - hole distance 38 mm
- fixing screws included
- Baseplate thickness 1,5 mm
- Zinc coated
- Sheet steel

	Ø mm	L mm	
860.0823	6,0	40,0	30

Power tool holder

- suitable for hole measurements 10 x 10 mm - hole distance 38 mm
- fixing screws included
- Baseplate thickness 1,5 mm
- Zinc coated
- Sheet steel

	Ø mm	
860.0841	40,0	50
860.0842	60,0	70
860.0843	80,0	80

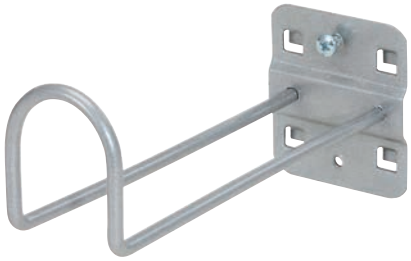
Tool holder 3 way

- suitable for hole measurements 10 x 10 mm - hole distance 38 mm
- fixing screws included
- Baseplate thickness 1,5 mm
- Zinc coated
- Sheet steel

	Ø mm	L mm	g	
860.0844	6,0	150,0	150	

Cable holder

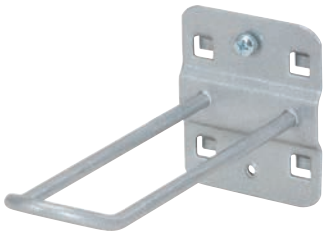
- suitable for hole measurements 10 x 10 mm - hole distance 38 mm
- fixing screws included
- Baseplate thickness 1,5 mm
- Zinc coated
- Sheet steel



	L mm	B mm	H mm	g	
860.0874	150,0	37,0	50,0	110	
860.0875	200,0	37,0	50,0	120	

Tool holder for euro blister packaging

- suitable for hole measurements 10 x 10 mm - hole distance 38 mm
- fixing screws included
- Baseplate thickness 1,5 mm
- Zinc coated
- Sheet steel



	L mm	B mm	g	
860.0876	125,0	40,0	80	
860.0877	150,0	40,0	90	

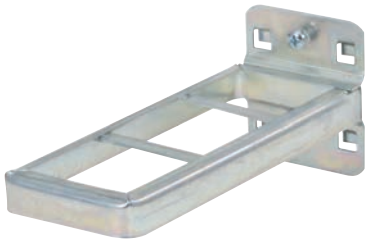
Six way tool holder hook ends 45° angled

- suitable for hole measurements 10 x 10 mm - hole distance 38 mm
- fixing screws included
- Baseplate thickness 1,5 mm
- Zinc coated
- Sheet steel

	Ø mm	L mm	B mm	g	
860.0845	6,0	240,0	140,0	240	

Combination holder

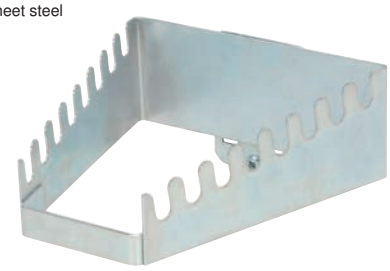
- suitable for hole measurements 10 x 10 mm - hole distance 38 mm
- fixing screws included
- Baseplate thickness 1,5 mm
- Zinc coated
- Sheet steel



	L mm	B mm	g	
860.0846	150,0	55,0	110	

Spanner holder horizontal

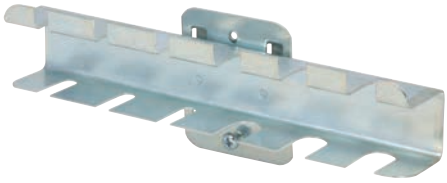
- suitable for hole measurements 10 x 10 mm - hole distance 38 mm
- fixing screws included
- Baseplate thickness 1,5 mm
- Zinc coated
- Sheet steel



	No. holes	L mm	B mm	g	
860.0849	8	150,0	55,0	200	

Screwdriver holder

- suitable for hole measurements 10 x 10 mm - hole distance 38 mm
- fixing screws included
- Baseplate thickness 1,5 mm
- Zinc coated
- Sheet steel



	No. holes	L mm	B mm	g	
860.0850	6	150,0	55,0	170	
860.0851	12	150,0	55,0	320	

Drill- and hexagon socket holder

- suitable for hole measurements 10 x 10 mm - hole distance 38 mm
- fixing screws included
- Baseplate thickness 1,5 mm
- Zinc coated
- Sheet steel

	No. holes	L mm	B mm	g	
860.0852	14	150,0	55,0	200	
860.0853	28	150,0	55,0	550	

Saw holder

- To be used in pairs
- suitable for hole measurements 10 x 10 mm - hole distance 38 mm
- fixing screws included
- Baseplate thickness 1,5 mm
- Zinc coated
- Sheet steel

	No. holes	L mm	g	
860.0854	4	150,0	70	

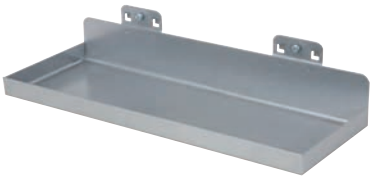
Pipe holder

- To be used in pairs
- suitable for hole measurements 10 x 10 mm - hole distance 38 mm
- fixing screws included
- Baseplate thickness 1,5 mm
- Zinc coated
- Sheet steel

	Ø mm	B mm	g	
860.0855	60,0	35,0	100	
860.0856	100,0	35,0	150	

Storage shelf without partition

- suitable for hole measurements 10 x 10 mm - hole distance 38 mm
- fixing screws included
- Baseplate thickness 1,5 mm
- Zinc coated
- Sheet steel



	L mm	B mm	kg	
860.0857	350,0	125,0	1,10	
860.0858	450,0	150,0	1,50	

Lin bin holder single

- For size 7 and 8
- suitable for hole measurements 10 x 10 mm - hole distance 38 mm
- fixing screws included
- Baseplate thickness 1,5 mm
- Zinc coated
- Sheet steel

		g
860.0859	Lin bin holder single	60

Base plate

- suitable for hole measurements 10 x 10 mm - hole distance 38 mm
- fixing screws included
- Baseplate thickness 1,5 mm
- Zinc coated
- Sheet steel

		g
860.0860	Base plate	20
860.0861	Base plate	40

Lin bin holder

- suitable for hole measurements 10 x 10 mm - hole distance 38 mm
- fixing screws included
- Baseplate thickness 1,5 mm
- Zinc coated
- Sheet steel

	B mm	H mm	g
860.0862	550,0	40,0	520
860.0863	550,0	60,0	660

Spanner holder tapered for 10 spanners

- suitable for hole measurements 10 x 10 mm - hole distance 38 mm
- fixing screws included
- Baseplate thickness 1,5 mm
- Zinc coated
- Sheet steel

	No. holes	L mm	B mm	H mm	g
860.0864	5	145/75,0	50,0	220,0	310
860.0865	5	225/125,0	50,0	255,0	480

Can holder

- suitable for hole measurements 10 x 10 mm - hole distance 38 mm
- fixing screws included
- Baseplate thickness 1,5 mm
- Zinc coated
- Sheet steel

	No. holes	Ø mm	L mm	g
860.0866	1	70,0	100,0	170
860.0867	3	70,0	300,0	580

Pipe holder

- suitable for hole measurements 10 x 10 mm - hole distance 38 mm
- fixing screws included
- Baseplate thickness 1,5 mm
- Zinc coated
- Sheet steel

	L mm	B mm	g
860.0868	230,0	70,0	700

Small component tray with partition

- suitable for hole measurements 10 x 10 mm - hole distance 38 mm
- fixing screws included
- Baseplate thickness 1,5 mm
- Zinc coated
- Sheet steel

	L mm	B mm	g
860.0847	150,0	55,0	240

Small component tray without partition

- suitable for hole measurements 10 x 10 mm - hole distance 38 mm
- fixing screws included
- Baseplate thickness 1,5 mm
- Zinc coated
- Sheet steel

	L mm	B mm	g
860.0848	150,0	55,0	210

Universal tool holder self drill

- With plastic pad for DIY drilling
- suitable for hole measurements 10 x 10 mm - hole distance 38 mm
- fixing screws included
- Baseplate thickness 1,5 mm
- Zinc coated
- Sheet steel

	L mm	B mm	g
860.0869	70,0	120,0	340
860.0870	45,0	390,0	1030

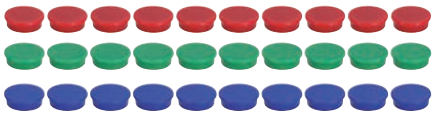
Universal tool storage box

- With wooden insert for DIY drilling
- suitable for hole measurements 10 x 10 mm - hole distance 38 mm
- fixing screws included
- Baseplate thickness 1,5 mm
- Zinc coated
- Sheet steel

	L mm	B mm	H mm	kg
860.0871	155,0	120,0	55,0	1,25

Magnet set, pack of 10

- Different colours
- Ideally suited for metal surfaces
- Plastic coated magnet



	Colour code	Ø mm	g
860.0882		25,0	90
860.0883		25,0	90
860.0884		25,0	100

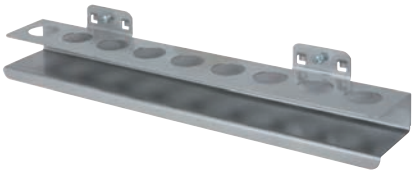
Sheet steel tray

- suitable for hole measurements 10 x 10 mm - hole distance 38 mm
- fixing screws included
- Baseplate thickness 1,5 mm
- Zinc coated
- Sheet steel

	L mm	B mm	g
860.0878	250,0	435,0	1390

Socket holder

- suitable for hole measurements 10 x 10 mm - hole distance 38 mm
- fixing screws included
- Baseplate thickness 1,5 mm
- Zinc coated
- Sheet steel



	No. holes	B mm	H mm	g
860.0873	9	390,0	30,0	150

Paper roll holder

- suitable for hole measurements 10 x 10 mm - hole distance 38 mm
- fixing screws included
- Baseplate thickness 1,5 mm
- Zinc coated
- Sheet steel

	L mm	B mm	H mm	g
860.0879	100,0	355,0	120,0	710

Document holder

- suitable for hole measurements 10 x 10 mm - hole distance 38 mm
- fixing screws included
- Baseplate thickness 1,5 mm
- Zinc coated
- Sheet steel

	B mm	H mm	g
860.0880	220,0	310,0	750

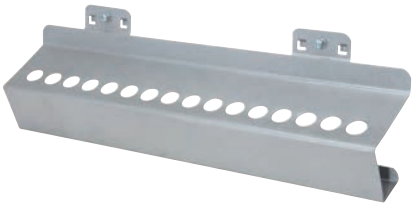
Works order holder

- suitable for hole measurements 10 x 10 mm - hole distance 38 mm
- fixing screws included
- Baseplate thickness 1,5 mm
- Zinc coated
- Sheet steel

	B mm	H mm	g
860.0881	220,0	310,0	690

Drill holder for MK 2 and MK 3 shafts

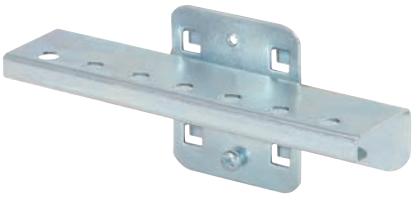
- suitable for hole measurements 10 x 10 mm - hole distance 38 mm
- fixing screws included
- Baseplate thickness 1,5 mm
- Zinc coated
- Sheet steel



	No. holes	B mm	H mm	g
860.0886	16	395,0	85,0	570

Bit holder

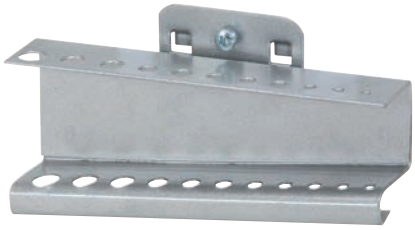
- suitable for hole measurements 10 x 10 mm - hole distance 38 mm
- fixing screws included
- Baseplate thickness 1,5 mm
- Zinc coated
- Sheet steel



	No. holes	L mm	B mm	g
860.0887	7	35,0	150,0	150

Hexagon socket holder

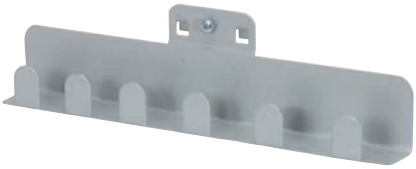
- suitable for hole measurements 10 x 10 mm - hole distance 38 mm
- fixing screws included
- For Ø 1 - 11 mm
- Baseplate thickness 1,5 mm
- Zinc coated
- Sheet steel



	No. holes	B mm	H mm	g
860.0872	11	145,0	70,0	190

Socket holder for 1/2" sockets

- suitable for hole measurements 10 x 10 mm - hole distance 38 mm
- fixing screws included
- Baseplate thickness 1,5 mm
- Zinc coated
- Sheet steel

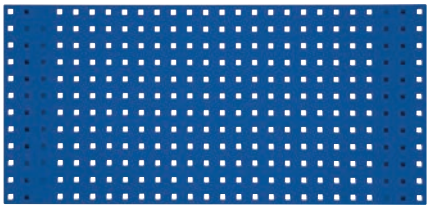


	No. holes	g
860.0894	6	200
860.0895	13	360

HOLE WALL

Hole wall gentian blue

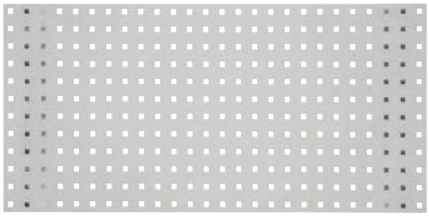
- Versatile and practical
- 1,25 mm thick steel sheet
- Beveled all around
- Impact and scratch resistant plastic coating
- Electrostatic powder coating



	RAL	L mm	B mm	kg
860.0889EB	5010	500,0	450,0	2,00
860.0890EB	5010	1000,0	450,0	5,00
860.0891EB	5010	1500,0	450,0	7,00
860.0892EB	5010	2000,0	450,0	9,00

Hole wall light grey

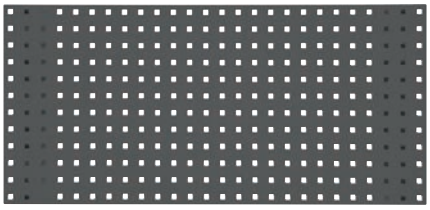
- Versatile and practical
- 1,25 mm thick steel sheet
- Beveled all around
- Impact and scratch resistant plastic coating
- Electrostatic powder coating



	RAL	L mm	B mm	kg
860.0889LG	7035	500,0	450,0	2,00
860.0890LG	7035	1000,0	450,0	5,00
860.0891LG	7035	1500,0	450,0	7,00
860.0892LG	7035	2000,0	450,0	9,00

Hole wall slate grey

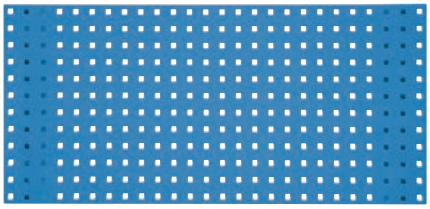
- Versatile and practical
- 1,25 mm thick steel sheet
- Beveled all around
- Impact and scratch resistant plastic coating
- Electrostatic powder coating



	RAL	L mm	B mm	kg
860.0889SG	7015	500,0	450,0	2,00
860.0890SG	7015	1000,0	450,0	5,00
860.0891SG	7015	1500,0	450,0	7,00
860.0892SG	7015	2000,0	450,0	9,00

Hole wall sky blue

- Versatile and practical
- 1,25 mm thick steel sheet
- Beveled all around
- Impact and scratch resistant plastic coating
- Electrostatic powder coating



	RAL	L mm	B mm	kg
860.0889HB	5015	500,0	450,0	2,00
860.0890HB	5015	1000,0	450,0	5,00
860.0891HB	5015	1500,0	450,0	7,00
860.0892HB	5015	2000,0	450,0	9,00

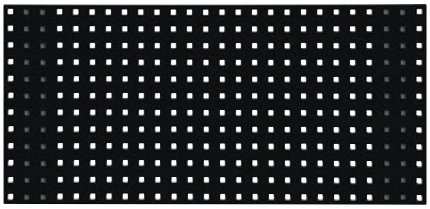
Hole wall pure white

- Versatile and practical
- 1,25 mm thick steel sheet
- Beveled all around
- Impact and scratch resistant plastic coating
- Electrostatic powder coating

	RAL	L mm	B mm	kg
860.0889RW	9010	500,0	450,0	2,00
860.0890RW	9010	1000,0	450,0	5,00
860.0891RW	9010	1500,0	450,0	7,00
860.0892RW	9010	2000,0	450,0	9,00

Hole wall jet black

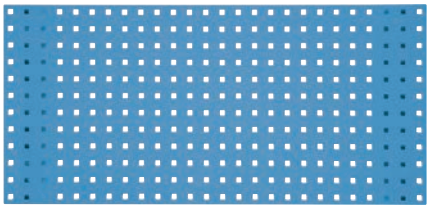
- Versatile and practical
- 1,25 mm thick steel sheet
- Beveled all around
- Impact and scratch resistant plastic coating
- Electrostatic powder coating



	RAL	L mm	B mm	kg
860.0889TS	9005	500,0	450,0	2,00
860.0890TS	9005	1000,0	450,0	5,00
860.0891TS	9005	1500,0	450,0	7,00
860.0892TS	9005	2000,0	450,0	9,00

Hole wall light blue

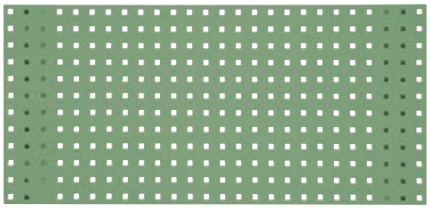
- Versatile and practical
- 1,25 mm thick steel sheet
- Beveled all around
- Impact and scratch resistant plastic coating
- Electrostatic powder coating



	RAL	L mm	B mm	kg
860.0889LB	5012	500,0	450,0	2,00
860.0890LB	5012	1000,0	450,0	5,00
860.0891LB	5012	1500,0	450,0	7,00
860.0892LB	5012	2000,0	450,0	9,00

Hole wall reseda green

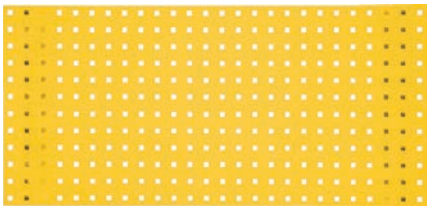
- Versatile and practical
- 1,25 mm thick steel sheet
- Beveled all around
- Impact and scratch resistant plastic coating
- Electrostatic powder coating



	RAL	L mm	B mm	kg
860.0889RG	6011	500,0	450,0	2,00
860.0890RG	6011	1000,0	450,0	5,00
860.0891RG	6011	1500,0	450,0	7,00
860.0892RG	6011	2000,0	450,0	9,00

Hole wall bright gold

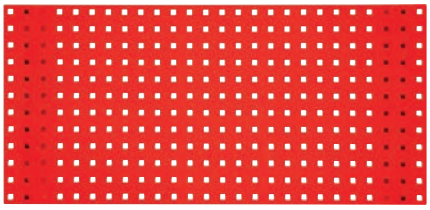
- Versatile and practical
- 1,25 mm thick steel sheet
- Beveled all around
- Impact and scratch resistant plastic coating
- Electrostatic powder coating



	RAL	L mm	B mm	kg
860.0889VG	1023	500,0	450,0	2,00
860.0890VG	1023	1000,0	450,0	5,00
860.0891VG	1023	1500,0	450,0	7,00
860.0892VG	1023	2000,0	450,0	9,00

Hole wall bright red

- Versatile and practical
- 1,25 mm thick steel sheet
- Beveled all around
- Impact and scratch resistant plastic coating
- Electrostatic powder coating



	RAL	L mm	B mm	kg
860.0889VR	3020	500,0	450,0	2,00
860.0890VR	3020	1000,0	450,0	5,00
860.0891VR	3020	1500,0	450,0	7,00
860.0892VR	3020	2000,0	450,0	9,00

SERVICE TROLLEYS

Tyres platform trolley

- Solid construction of steel sheet
- Firmly fixed grasping handle made from steel tube
- Grasping handle is hinged and locked with safety security catches without any tools
- In minimal time
- Rubbber surrounding edges protect the trolley and surroundings from damage
- With 4 ball baering rubber wheels, 2 with steering
- Load area has a plastic covering

Technical data:

Total load capacity: 150 kg
Wheel diameter: 100 mm

	H mm	B mm	T mm	kg
800.0015	810,0	740,0	480,0	9,20

ECO*line* Workshop service trolley

- Made from robust sheet steel construction
- Easy to move, even with heavy loads
- All shelves with high retaining border
- Internal dimension 565 x 395 mm
- With side pull handle
- Two fixed wheels Ø 100 mm
- Two castor wheels Ø 100 mm with rolling and turning brake
- High level of stability

Technical data:

Tray internal dimensions: 565 x 395 mm
Total load capacity: 150 kg
Wheel diameter: 100 mm

	H mm	B mm	T mm	kg
890.0001	850,0	680,0	425,0	12,60

ECO*line* Workshop-Service Trolley with Perforated Plate Cover

- Made from robust sheet steel construction
- Easy to move, even with heavy loads
- All shelves with high retaining border
- Internal dimension 565 x 395 mm
- lateral perforated steel cover for use with extra tools
- lockable at the back
- clearly organised workspace
- With side pull handle
- Two fixed wheels Ø 100 mm
- Two castor wheels Ø 100 mm with rolling and turning brake
- High level of stability

Technical data:

Tray internal dimensions: 565 x 395 mm
Total load capacity: 150 kg
Wheel diameter: 100 mm

	H mm	B mm	T mm	kg
890.0006	850,0	682,0	426,0	20,00

Workshop service trolley

- Extremely substaintial plastic construction
- Without screws easily costructed
- Distance between the ground 30 cm
- With two handles
- 2 castor wheels 100 mm
- 2 castor wheels with brake 100 mm
- High level of stability
- Light profile weight
- Columns made out of anodised aluminum

Technical data:

Total load capacity: 200 kg
Wheel diameter: 100 mm

	H mm	B mm	T mm	kg
800.0020	1010,0	860,0	480,0	12,10

Workshop service trolley with lining

- Extremely substaintial plastic construction
- Equipment lining
- Without screws easily costructed
- Distance between the ground 30 cm
- With two handles
- 2 castor wheels 100 mm
- 2 castor wheels with brake 100 mm
- High level of stability
- Light profile weight
- Columns made out of anodised aluminum

Technical data:

Total load capacity: 200 kg
Wheel diameter: 100 mm

	H mm	B mm	T mm	kg
800.0021	1010,0	860,0	480,0	12,10

Workshop service trolley with 2 drawers

- Extremely substaintial plastic construction
- Without screws easily costructed
- Two ball bearing drawer runner guides
- With two handles
- 2 castor wheels 100 mm
- 2 castor wheels with brake 100 mm
- High level of stability
- Light profile weight
- Columns made out of anodised aluminum

Technical data:

Drawer internal dimensions:	520 x 430 x 85 mm
Total load capacity:	200 kg
Load capacity of each drawer:	35 kg
Wheel diameter:	100 mm

	H mm	B mm	T mm	kg
800.0030	1010,0	860,0	480,0	14,20

Workshop service trolley with 2 drawers and lining

- Extremely substaintial plastic construction
- Without screws easily costructed
- Two ball bearing drawer runner guides
- With two handles
- 2 castor wheels 100 mm
- 2 castor wheels with brake 100 mm
- High level of stability
- Light profile weight
- Columns made out of anodised aluminum

Technical data:

Drawer internal dimensions:	520 x 430 x 85 mm
Total load capacity:	200 kg
Load capacity of each drawer:	35 kg
Wheel diameter:	100 mm

	H mm	B mm	T mm	kg
800.0031	1010,0	860,0	480,0	15,00

Service trolley

- Ideally suited as mobile PC station, exhaust gas test station or as storage and operation trolley for diagnostic equipment
- Also suitable for customer service entrainment
- Robust and stable steel construction with 1,0 mm sheet steel distortion resistant
- High level of stability
- Lockable door
- With several openings for passing the cord
- Ball bearing drawer runners
- Drawers are extendable
- Front side edges are rounded
- Internal hinges and cylinder lock
- 2 shelves, universal adjustable in height
- Four castor wheels Ø 125 mm with rolling and turning brake
- Electrostatic powder coating

Technical data:

Drawer internal dimensions:	300 x 450 x 55 mm
Total load capacity:	150 kg
Load capacity of each drawer:	25 kg
Wheel diameter:	125 mm

	Total depth mm	Width mm	Depth mm	kg
865.0020	1155,0	500,0	500,0	47,00

Pallet cage trolley

- For universal use
- With 4 steering castors
- Load capacity up to 80 kg
- Robust construction from steel pipe

Technical data:

Total load capacity:	80 kg

	Total depth mm	Width mm	Depth mm	kg
160.0260	1965,0	900,0	600,0	40,86

Paper trolley with 2 shelves

- Ideally suited to masking painting
- Mobile paper dispenser with 2 shelves for up to 2 paper rolls
- Suitable for covering paper and covering sheets up to 45 cm
- Supplied with adjustable tape pressure rollers
- Includes gun holder on one side
- Problem-free and graded separation with use of a sharp blade
- With practical storage compartments
- With two sturdy wheels
- including handles for easy manoeuvring
- Robust construction from steel pipe

	Total depth mm	Width mm	Depth mm	kg
140.2382	920,0	660,0	600,0	11,00

Paper trolley with 3 shelves

- Ideally suited to masking painting
- Mobile paper giver with 4 shelves for up to 6 paper rolls
- Suitable for covering paper and covering sheets up to 90 cm
- Supplied with adjustable tape pressure rollers
- Simple replacing of paper rolls
- Multi-adjustable for different lengths
- Includes gun holder on both sides
- With 4 sturdy, steerable castors
- Including bracket for easy manoeuvring
- Robust construction from steel pipe

	Total depth mm	Width mm	Depth mm	kg
140.2350	1130,0	1240,0	540,0	29,00

PLATFORM

Aluminium work platform

- Skid proof profile on the platform stage
- Chequer plate profile on the steps
- No tipping over through obliquely placed standing feet
- Double-sided access
- Large platform for safe standing
- Safety clips for added security
- Beams and step made from aluminium
- Easy to store as the unit is fully collapsible
- The gripped plastic feet protect the surface and add stability
- Secure stand makes working easier
- Can be used to assemble screens, engine bay work, work on the roof, commercial vehicle pit work etc.
- Universal suitable in very high vehicles e.g. motor homes, small vehicles, truck and buses, terrain vehicles
- Heavy aluminium construction

Technical data:

Platform dimensions: 1000 x 300 mm

Total load capacity: 150 kg

	L mm	B mm	H mm	kg
800.0960	1345,0	405,0	480,0	7,30

Safety assembly step

- No tipping over through obliquely placed standing feet
- Anti slip, hot dip galvanised, with the frame riveted lattice rustproof
- Step to DIN 50976
- Massive and distortion stiff steel tube construction
- Base frame plastic coated
- The gripped plastic feet protect the surface and add stability
- Applicable e.g. panel assembly, engine compartment works, roof works truck pit working
- Universal suitable in very high vehicles e.g. motor homes, small vehicles, truck and buses, terrain vehicles

Technical data:

Surface area: 690 x 620

Steel grating: 590 x 290

Total load capacity: 300 kg

		kg
450.0960	Safety assembly step	14,00

SUPPORTS

Windscreen table with rubber protective pads

- Ideally suited to holding the windscreen when removing, or removing adhesive material
- four movable rubber suction cups hold the disc securely in position and protect it from scratches
- Fully adjustably
- For nearly all windscreen sizes
- Foldable to save space during storage
- Robust construction
- Capacity up to 50 kg with rubber suction cup
- Capacity up to 300 kg without rubber suction cup
- Made from zinc coated steel tube

Technical data:

max. Load: 50 kg

Suction cup diameter: 125,0 mm

	Length mm	Width mm	Height mm	Rubber pad	kg
140.2225	1030,0	50,0	1040,0	140.2225-1	8,40

Universal storage table

- Ideally suited to holding the windscreen when removing, or removing adhesive material
- Holding tube with non-slip, coated padding offer optimal grip and prevent scratches
- Fully adjustably
- For nearly all windscreen sizes
- Foldable to save space during storage
- Robust construction
- Capacity up to 80 kg
- Made from zinc coated steel tube

Technical data:

max. Load: 80 kg

	Length mm	Width mm	Height mm	Pad	kg
140.2226	1030,0	900,0	940,0	140.2226-1	6,60

Universal storage table with rollers

- Ideally suited to holding the windscreen when removing, or removing adhesive material
- Holding tube with non-slip, coated padding offer optimal grip and prevent scratches
- For nearly all windscreen sizes
- Foldable to save space during storage
- 4 substaintial wheels, 2 with locking brakes
- Simple handling
- Capacity up to 100 kg
- Robust construction from steel pipe

Technical data:

max. Load: 100 kg

	Length mm	Width mm	Height mm	Pad	kg
140.2227	900,0	760,0	930,0	140.2228	8,00

Universal Telescopic-Multi-purpose trolley with rollers

- Ideally suited to bodywork restoration, in the painting area or for filing screens when removing, or applying adhesive material etc.
- Holding tube with non-slip, coated padding offer optimal grip and prevent scratches
- The multi-talented universal use, since width and height are fully adjustable and lockable
- For nearly all windscreen sizes
- Can also be used as a work bench or for carrying parts
- Collapsible to save space during storage
- With 4 stable castors, 2 with locking brakes
- Simple handling
- Capacity up to 100 kg
- Robust construction made from square tube

Technical data:

max. Load: 100 kg

	Length mm	min. width mm	Max width mm	Height min in mm	Height max in mm	kg
500.8100	1320,0	257,0	1380,0	845,0	1320,0	23,50

TRANSPORT SACK TROLLEY

Transport sack trolley with pneumatic wheels

- Steel tubular structure with deep-welded joints
- easy and flexible transport even in small rooms
- Effortless receiving and transporting of packages, carton and all other objects
- made from round pipes, solid weld
- Very wide shovel base
- Equiped with 2 fixed wheels with pneumatic tyres
- Safety handles and slip protection
- Perfectly suitable in industry and business

Technical data:

max. Load capacity kg:	250,0 kg
Tyre size:	Ø 260 x 85 mm
Shovel/base dimensions:	W 400 x D 170 mm

	L mm	B mm	H mm	kg
160.0225	430,0	550,0	1100,0	10,00

Transport sack trolley with pneumatic wheels

- Steel tubular structure with deep-welded joints
- easy and flexible transport even in small rooms
- Effortless receiving and transporting of packages, carton and all other objects
- made from round pipes, solid weld
- Fold away shovel base
- Equiped with 2 fixed wheels with pneumatic tyres
- Safety handles and slip protection
- Perfectly suitable in industry and business

Technical data:

max. Load capacity kg:	250,0 kg
Tyre size:	Ø 260 x 85 mm
Shovel/base dimensions:	W 400 x D 170 mm

	L mm	B mm	H mm	kg
160.0226	775,0	550,0	1100,0	10,00

Transport sack trolley with full rubber three staged wheels

- Steel tubular structure with deep-welded joints
- easy and flexible transport even in small rooms
- Effortless receiving and transporting of packages, carton and all other objects
- made from round pipes, solid weld
- Fold away shovel base
- Problem free overcoming of stairs
- Full rubber three staged wheels
- Perfectly suitable in industry and business

Technical data:

max. Load capacity kg:	250,0 kg
Tyre size:	Ø 160 x 30 mm
Shovel/base dimensions:	W 400 x D 170 mm

	L mm	B mm	H mm	kg
160.0227	900,0	610,0	1285,0	15,00

Transport sack trolley with full rubber tyres

- Steel tubular structure with deep-welded joints
- easy and flexible transport even in small rooms
- Effortless receiving and transporting of packages, carton and all other objects
- made from round pipes, solid weld
- Equiped with 2 fixed full rubber wheels
- Safety handles and slip protection
- Perfectly suitable in industry and business

Technical data:

max. Load capacity kg:	250,0 kg
Tyre size:	Ø 255 x 46 mm
Shovel/base dimensions:	W 400 x D 170 mm

	L mm	B mm	H mm	kg
160.0228	430,0	560,0	1100,0	17,00

Transport sack trolley with full rubber tyres

- Steel tubular structure with deep-welded joints
- easy and flexible transport even in small rooms
- Effortless receiving and transporting of packages, carton and all other objects
- made from round pipes, solid weld
- Fold away shovel base
- Equiped with 2 fixed full rubber wheels
- Safety handles and slip protection
- Perfectly suitable in industry and business

Technical data:

max. Load capacity kg:	250,0 kg
Tyre size:	Ø 255 x 46 mm
Shovel/base dimensions:	W 400 x D 170 mm

	L mm	B mm	H mm	kg
160.0229	775,0	560,0	1100,0	19,00

Bottle trolley

- Steel tubular structure with deep-welded joints
- Ideal for the storage of 10 litre nitrogen bottles
- With safety chain for transport
- Includes hose attachment
- Integrated tray for accessories
- Stable fully-rubber wheels
- Secure and easy to use
- Special tool steel

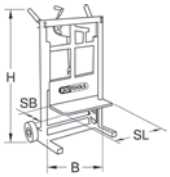
Technical data:

max. Load capacity kg:	85,0 kg
Tyre size:	Ø 160 mm

	Length mm	Width mm	Height mm	kg
160.0247	275,0	305,0	1170,0	4,46

Radiator transport trolley

- Practical transport trlley to transport radiators
- With automatic brake
- Max. payload: 150 kg
- Max. height 370 mm
- Special tool steel



	B mm	H mm	SL mm	SB mm	kg
160.0230	610,0	980,0	420,0	195,0	30,00

Transport sack trolley for barrels

- Steel tubular structure with deep-welded joints
- With pneumatic tyres
- easy and flexible transport even in small rooms
- Suitable for all common 200 litre barrels (GGVS, UNO)
- With barrel rim holder for secure grip
- Thanks to adjustable height other barrel sizes may be transported safely

Technical data:

Tyre size: Ø 260 x 85 mm

	Max load kg	B mm	H mm	kg
160.0223	250,0 kg	700,0	1600,0	13,40

Professional wheel trolley

- Steel tubular structure with deep-welded joints
- easy and flexible transport even in small rooms
- for effortless collection and transport of tyres and rims
- made from round pipes, solid weld
- 2 large pneumatic tyres
- with 2 solid rubber guide rollers
- with improved stability and tilting safety
- Optimal transportation due to traverse brake stop

Technical data:

Wheel size fixed rollers:	Ø 260 mm (pneumatic tyres)
Wheel size steer rollers:	Ø 125 mm (solid rubber)
Max. bucket dimensions:	Ø 730 mm

	Max load kg	L mm	B mm	H mm	kg
160.0055	150,0 kg	850,0	715,0	1610,0	15,00

KNEE AND LIE DOWN MATS

Protection mat

- Guarantees safety-conscious working on a flat surface
- Moisture and dirt resistant
- Work garments and knees stay dry, clean and protected
- 3 layered padded construction from soft material
- Integrated hand grip
- Petrol and oil resistant

	L mm	B mm	H mm	g
500.8040	480,0	320,0	36,0	200
500.8045	1150,0	550,0	36,0	760

Mat with handle

- Guarantees safety-conscious working on a flat surface
- Moisture and dirt resistant
- Work garments and knees stay dry, clean and protected
- Insulted
- Can be folded together
- With integrated carry handle
- Petrol and oil resistant

	L mm	B mm	H mm	kg
500.8002	1022,0	440,0	40,0	1,05

STRETCHER

Drivable stretcher and folding seat

- For the use of lying and sitting
- Interlocking mechanism against accidental loosening
- Padded execution for fatigue free working
- Washable cushion
- Shallow depth for comfortable working
- six polyvinyl chloride swivel castors with ball bearings
- Black powder coated metal frame

Technical data:

Total load capacity: 90 kg

	L mm	B mm	H mm	Substitute roll	kg
500.8011	1040,0	490,0	85,0	500.8012	9,50

Drivable stretcher and folding seat

- For the use of lying and sitting
- Interlocking mechanism against accidental loosening
- Padded execution for fatigue free working
- Tool storage tray in the foot well
- Washable cushion
- Shallow depth for comfortable working
- Adjustable head rest
- seven polyvinyl chloride swivel castors with ball bearings
- Black powder coated metal frame

Technical data:
Total load capacity: 90 kg

	L mm	B mm	H mm	Substitute roll	kg
500.8000	1200,0	430,0	145,0	500.8001	12,40

Mobile seat

- Padded head support
- Shaped arm areas for optimal movement freedom
- Includes safe tool recesses
- six polyvinyl chloride swivel castors with ball bearings
- Easy to clean
- Maximum capacity up to 120 kg
- Solid construction made from plastic

Technical data:
Total load capacity: 120 kg

	L mm	B mm	H mm	Substitute roll	kg
500.8090	1030,0	480,0	115,0	500.8091	5,00

Mobile seat

- for use when lying down
- Padded execution for fatigue free working
- Washable cushion
- Shallow depth for comfortable working
- extra stable, ball bearing mounted, solid rubber castors
- Black powder coated metal frame
- maximum weight up to 180 kg

Technical data:
Total load capacity: 180 kg

	L mm	B mm	H mm	Substitute roll	kg
500.8003	1160,0	540,0	120,0	500.8003-R001P	10,50

STOOLS

Mobile stool

- Robust and mobile stool
- Storage area for the protection of tools and small parts
- Washable cushion
- four ball-bearing polyvinyl chloride swivel castors
- Maximum capacity up to 90 kg
- Construction from robust steel square tube

Technical data:
Total load capacity: 90 kg
Number of direct rollers: 4

	L mm	B mm	H mm	Substitute roll	kg
500.8020	440,0	360,0	360,0	500.8022	4,00

Mobile and height adjustable stool

- Robust and mobile stool
- Storage area for the protection of tools and small parts
- Washable cushion
- five ball-bearing polyvinyl chloride swivel castors
- Maximum capacity up to 90 kg
- Durable metal construction

Technical data:
Total load capacity: 90 kg
Number of direct rollers: 5

	B mm	Height min in mm	Height max in mm	Substitute roll	kg
500.8030	370,0	400,0	540,0	500.8031	7,30

Mobile and height adjustable stool

- Robust and mobile stool
- Storage area for the protection of tools and small parts
- Washable cushion
- Hydraulic height adjustment
- extra stable, ball bearing mounted, solid rubber castors
- maximum weight up to 135 kg
- Durable metal construction

Technical data:
Total load capacity: 135 kg
Number of direct rollers: 5

	B mm	Height min in mm	Height max in mm	Substitute roll	kg
500.8004	360,0	440,0	560,0	500.8004-R001P	7,80

AXLE STANDS

Aluminium axle stand set

- Especially light and stabile
- High level of stability due to the diameter of the base plate
- Safety locking bolt with chain
- Suits itself especially well in combination with jack for the safe bracing of a load
- Aluminium

	Max load t	Stroke way mm	Min total height mm	Max total height mm	kg
160.0315	3,0	140,0	260,0	400,0	2,20

Steel chassis stand with quick lock

- Solid construction
- For heavy vehicles weights
- High level of stability due to large sturdy base plate
- Lifting bar made from cast steel
- Quick adjustments
- Height adjustment has 13 stages
- Suits itself especially well in combination with jack for the safe bracing of a load
- Delivery takes place in parts
- Made from solid steel
- 160.0377 / 160.0378 with turnstile

	Max load t	Min total height mm	Max total height mm	kg
160.0373	10	450,0	750,0	21,50
160.0374	10	650,0	1100,0	26,50
160.0377	20	420,0	660,0	26,00
160.0378	20	665,0	1170,0	29,00
160.0379	25	415,0	640,0	25,50
160.0380	25	675,0	1050,0	35,50

Steel axle stands with quick adjustment

- 4 feet on each stand
- Solid construction
- For heavy vehicles weights
- High level of stability
- Lifting bar made from cast steel
- Quick adjustments
- Supplied in pairs
- Height adjustment has 13 stages
- Suits itself especially well in combination with jack for the safe bracing of a load
- Made from solid steel

	Max load t	Stroke way mm	Min total height mm	Max total height mm	kg
160.0370	3,0	130,0	276,0	420,0	6,40
160.0371	6,0	205,0	382,0	600,0	1,40

Spindle support stand

- Variably adjustable via spindle
- 3-foot chassis stand
- Solid construction
- For heavy vehicles weights
- High level of stability
- Collapsible, so saves a lot of space
- Suits itself especially well in combination with jack for the safe bracing of a load
- Made from solid steel

	Max load t	Min total height mm	Max total height mm	kg
160.0441	12,0	456,0	710,0	17,50
160.0442	12,0	710,0	1065,0	25,00

Underhoist stand with pedal

- Ideal for all work when extra support is needed
- Stable trapeze threaded spindle
- Secure stand thanks to the large foot
- Infinitely variable
- Smooth-operating with axial bearings
- Foot pedal for precise adjustments (20 mm)
- The ideal work shop assistant in many situations

	Load capacity kg	Min total height mm	Max total height mm	kg
160.0342	750	1360,0	2030,0	15,00

LIFTING TOOLS

Hydraulic bottle jack 2 - 50 t

- Security valve against overload
- Telescopic piston pole
- Additional spindle for extension (not in 30 and 50 t executions)
- Two piece lever arms
- For heavy vehicles weights
- Suitable for narrow spaces
- High level of stability
- Ideally suited in combination with jack for the neutralizing and bracing of a load
- Heavy steel construction

	Max load t	min lift height mm	max lift height mm	Hydraulic lift mm	Screw extension mm	Dimension of base plate mm	kg
160.0350	2,0	181,0	345,0	116,0	48,0	88 x 92	2,90
160.0351	3,0	194,0	372,0	118,0	60,0	92 x 100	3,80
160.0352	5,0	216,0	413,0	127,0	70,0	96 x 112	5,10
160.0354	10,0	230,0	460,0	150,0	80,0	110 x 127	7,10
160.0356	15,0	230,0	460,0	150,0	80,0	113 x 136	9,30
160.0358	20,0	242,0	452,0	150,0	60,0	144 x 155	11,90
160.0359	30,0	285,0	465,0	180,0	-	190 x 155	21,70
160.0360	50,0	300,0	480,0	180,0	-	218 x 176	30,70

SlimPOWER hydraulic aluminium trolley jack 2 t

- Especially light aluminum jack
- Very shallow depth for use under low vehicles
- Large base for safe standing
- Raising with the pump lever and foot lever is possible
- With foot pedal to bridge the empty stroke
- Controlled releasing through the turning of the pump lever
- Raising with small pump lifts to the maximum height
- Good maneuverability through two oil and acid resistant nylon direct castors
- Intergrated screw tray
- The lower area of the pump lever is coated with foam material
- Problem free movement due to lightweight and secure handling
- Lifting plate diameter 135 mm
- Overload protection through pressure relief valve
- Ideally suited for daily workshop use
- Extremely heavy aluminium construction

	Max capacity t	Stroke way mm	min lift height mm	max lift height mm	Total length mm	Spare lifting plate	kg
161.0365	2,0	370,0	90,0	460,0	790,0	161.0365-R047P	26,80

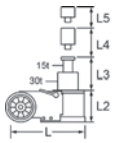
Hydraulic steel trolley jack 3 t

- Large base for safe standing
- Controlled releasing through the turning of the pump lever
- Raising with small pump lifts to the maximum height
- Good maneuverability through two oil and acid resistant nylon direct castors
- Intergrated screw tray
- The lower area of the pump lever is coated with foam material
- Lifting plate diameter 140 mm
- Overload protection through pressure relief valve
- Ideally suited for daily workshop use
- Heavy steel construction

	Max capacity t	Stroke way mm	min lift height mm	max lift height mm	Total length mm	Spare lifting plate	kg
160.0366	3,0	410,0	125,0	535,0	720,0	160.0362	43,00

Pneumatic hydraulic trolley jack 30 t / 15 t

- Hydraulic jack for vehicles up to max. 30t
- Large lifting base for safe standing
- Short and compact design
- Extremely light weight ideal for the mobile usage
- Overload protection through overload pressure valve
- Maximum lift is reached using one of the two adaptors included
- Very short and transportable design
- Folding handle
- Easy running oil and acid resistant solid rubber wheels
- Suitable for narrow spaces
- Ideally suited for daily workshop use
- Durable steel construction



	Max capacity t	L mm	L2 mm	L3 mm	L4 mm	L5 mm	kg
160.0739	30 / 15	430,0	150,0	139,0	75,0	45,0	24,00

ULTIMATE*line* Hydraulic steel trolley jack

- Very shallow depth for use under low vehicles
- Large base for safe standing
- Raising with the pump lever and foot lever is possible
- With foot pedal to bridge the empty stroke
- Controlled releasing through the turning of the pump lever
- Raising with small pump lifts to the maximum height
- Good maneuverability through two oil and acid resistant nylon direct castors
- Intergrated screw tray
- The lower area of the pump lever is coated with foam material
- Lifting plate diameter 120 mm
- Overload protection through pressure relief valve
- Ideally suited for daily workshop use
- Heavy steel construction

	Max capacity t	Stroke way mm	Min total height mm	Max total height mm	Total length mm	Spare lifting plate	kg
161.0367	2,0	415,0	80,0	495,0	760,0	161.0371	32,00

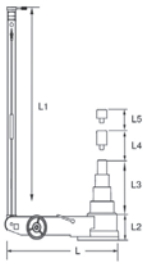
Jack for forklifts, hydraulic 4 - 5 t

- Specially developed for forklifts, agricutural and industrial vehicles
- Combination lifting jack with scissor action
- Scissor capacity of 4 tons and cylinder capacity of 5 tons
- Steal wheels

	Max capacity t	Stroke way mm	min lift height mm	max lift height mm	Total length mm	kg
160.0716	5,0	365,0	75,0	440,0	700,0	44,00

Pneumatic hydraulic trolley jack 40 t / 20 t

- Hydraulic jack for vehicles up to max. 40 t
- Large lifting base for safe standing
- Short and compact design
- Extremely light weight ideal for the mobile usage
- Overload protection through overload pressure valve
- Maximum lift is reached using one of the two adaptors included
- Very short and transportable design
- Folding handle
- Easy running oil and acid resistant solid rubber wheels
- Suitable for narrow spaces
- Ideally suited for daily workshop use
- Durable steel construction



	Max capacity t	L mm	L1 mm	L2 mm	L3 mm	L4 mm	L5 mm	kg
160.0741	40 / 20	480,0	1300,0	150,0	139,0	75,0	45,0	40,00

Pneumatic hydraulic trolley jack 40 t / 20 t

- Hydraulic jack for vehicles up to max. 40 t
- Large lifting base for safe standing
- Short and compact design
- Extremely light weight ideal for the mobile usage
- Overload protection through overload pressure valve
- Maximum lift is reached using one of the two adaptors included
- Very short and transportable design
- Folding handle
- Easy running oil and acid resistant solid rubber wheels
- Suitable for narrow spaces
- Ideally suited for daily workshop use
- Durable steel construction

	Max capacity t	L mm	L1 mm	L2 mm	L3 mm	L4 mm	L5 mm	kg
160.0742	40 / 20	600,0	1300,0	170,0	169,0	75,0	45,0	53,00

Pneumatic hydraulic trolley jack 60 / 40 t / 22 / 11 t

- Hydraulic jack for vehicles up to max. 60 t
- Large lifting base for safe standing
- Short and compact design
- Extremely light weight ideal for the mobile usage
- Overload protection through overload pressure valve
- Maximum lift is reached using one of the two adaptors included
- Very short and transportable design
- Folding handle
- Easy running oil and acid resistant solid rubber wheels
- Suitable for narrow spaces
- Ideally suited for daily workshop use
- Durable steel construction

	Max capacity t	L mm	L1 mm	L2 mm	L3 mm	L4 mm	L5 mm	kg
160.0744	60 / 40 / 22 / 11	905,0	1380,0	150,0	243,0	75,0	45,0	66,00

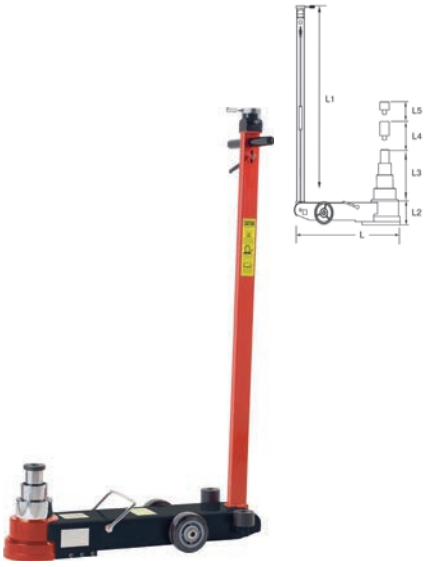
Underhoist stand with pedal

- Ideal for all work when extra support is needed
- Stable trapeze threaded spindle
- Secure stand thanks to the large foot
- Infinitely variable
- Smooth-operating with axial bearings
- Foot pedal for precise adjustments (20 mm)
- The ideal work shop assistant in many situations

	Load capacity kg	Min total height mm	Max total height mm	kg
160.0342	750	1360,0	2030,0	15,00

Pneumatic hydraulic trolley jack 40 t / 20 / 10 t

- Hydraulic jack for vehicles up to max. 40 t
- Large lifting base for safe standing
- Short and compact design
- Extremely light weight ideal for the mobile usage
- Overload protection through overload pressure valve
- Maximum lift is reached using one of the two adaptors included
- Very short and transportable design
- Folding handle
- Easy running oil and acid resistant solid rubber wheels
- Suitable for narrow spaces
- Ideally suited for daily workshop use
- Durable steel construction



	Max capacity t	L mm	L1 mm	L2 mm	L3 mm	L4 mm	L5 mm	kg
160.0743	40 / 20 / 10	830,0	1380,0	130,0	159,0	75,0	45,0	44,00

Pneumatic hydraulic trolley jack 80 / 50 t

- Hydraulic jack for vehicles up to max. 80 t
- Large lifting base for safe standing
- Short and compact design
- Extremely light weight ideal for the mobile usage
- Overload protection through overload pressure valve
- Maximum lift is reached using one of the two adaptors included
- Very short and transportable design
- Folding handle
- Easy running oil and acid resistant solid rubber wheels
- Suitable for narrow spaces
- Ideally suited for daily workshop use
- Durable steel construction

	Max capacity t	L mm	L1 mm	L2 mm	L3 mm	L4 mm	L5 mm	kg
160.0745	80 / 50	930,0	1380,0	230,0	213,0	75,0	45,0	106,00

Hydraulic transmission jack

- Ideal for installing and removing motors, transmissions, couplings etc.
- Uncomplicated lifting with hydraulic foot pump
- Continuous adjustment allows for precise positioning
- Slow release of the load possible with hand wheel
- Includes overload valve
- With integrated safety stop handle
- High stability due to wide wheel spacing
- Good manoeuvrability through four oil and acid resistant nylon direct castors
- Extra-large covering for lifting
- Wide wheel spacing ensures more stability and manoeuvrability when loaded
- Robust shape

	Max load kg	min lift height mm	max lift height mm	Width mm	kg
160.0327	300	1200,0	2040,0	610,0	32,00
160.0324	500	1200,0	2040,0	610,0	34,00
160.0329	1000	1200,0	2040,0	610,0	48,00

Hydraulic transmission jack

- Ideal for safe installation
- Heavy execution
- Uncomplicated lifting with hydraulic foot pump
- Continuous adjustment allows for precise positioning
- Especially wide working area
- Slow release of the load possible with the foot pump
- Includes overload valve
- With integrated safety stop handle
- Ground plate can be inclined and adjusted into position/horizontal + 40 mm/inclination -10°/+20°
- Includes 420 mm wide support rail with support chains for secure tensioning
- Chains can be adjusted from 130-430 mm
- Transmission holder attached to the piston rod
- Includes transmission holder
- Good manoeuvrability through four oil and acid resistant nylon direct castors
- Extra-large covering for lifting
- Wide wheel spacing ensures more stability and manoeuvrability when loaded
- Robust shape

	Max load kg	max lift height mm	min lift height mm	Length mm	Width mm	kg
160.0334	500	1870,0	880,0	700,0	800,0	67,00

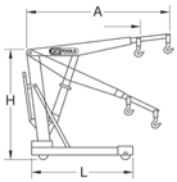
Universal assembly stool

- Ideal for installing and removing engines, transmission and support frames
- Suitable for transmission jacks with an attachment diameter of 25, 30 and 35 mm
- With four arms that can swivel sideways and can be adjusted in length
- For up to 75 kg
- Supporting plates height adjustable with non slip feet
- Simple handling and quick repair
- Stable construction
- Special tool steel

	Max load kg	Length mm	kg
160.0146	75	700,0 - 960,0	13,00

Folding workshop crane

- Hand lever pump for lifting
- Finely controllable reduction valve
- Made out of rectangle pipe, welded frame
- Stable construction
- Safety load hooks
- Telescopic crane jib with 4 sided adjustment of the length
- 2 fixed and 2 controllable castors (due to this there is problem free positioning over the load to be lifted)
- Flat feet enable a simple access under low vehicles
- Good maneuverability due to the ball bearing metal castors
- Adjustable load capacity
- Chassis in slightly splayed form and can be folded away
- Ideal for lifting works in the motor vehicle workshop
- For the removal and replacement of engines
- Raising of motorcycles in special works



	Max load kg	H mm	L mm	A mm	kg
160.0015	1000	1440,0	1550,0	1006,0 - 1330,0	73,30

Load positioning device

- Makes balancing the load on the crane easier depending on the shape of the parts to be lifted during installation and assembly
- Easy balance adjustment with the hand lever
- Supplied with 4 load chains
- Axle distance 320 mm
- Can be combined with work shop crane for units

	Max load kg	Height mm	Width mm	kg
160.0018	680	560,0	430,0	5,60

Load positioning device

- Makes balancing the load on the crane easier depending on the shape of the parts to be lifted during installation and assembly
- Easy balance adjustment with the hand lever
- Supplied with 4 load chains
- Centre distance: 400 mm
- Can be combined with work shop crane for units like the engine block, transmission, etc.

Application range: Volvo FH, FM, FMX and NH Series

Technical data:
max. Load: 2.000 kg

	Width mm	Height mm	kg
460.5255	445,0	190,0	5,40

COLLECTION CONTAINER

Flexible funnel with aluminium body

- Ideally suited to a clean and control draining of all fluids, e.g. oil, coolant, brake fluid, fuel etc.
- Resistant to petrol, diesel, oil, coolant, hydraulic and brake fluid
- Also suitable as a funnel for filling
- Shape is maintained and can be altered at any time
- Free malleable, therefore can be adapted for extremely tight spaces
- Problems with draining fluids are a thing of the past
- The heavy-duty construction can be fit to any desired shape and used again
- Easy to clean
- Temperature resistance of -34 to +232°C
- Aluminium frame
- Outer skin made from nitrile rubber

	Length mm	Width mm	g
150.9303	372,0	170,0	240

Drain pan 7.5 litres

- With three carry handles
- Safe and clean pouring with the self-contained overflow edge and spout
- Ideally suited to collecting different fluids
- Suitable for oil, chemicals, petrol, acid and anti-freeze fluid
- Also suitable for cleaning parts
- Practical, quick and friendly to the environment
- Shock and impact resistant

	Ø mm	H mm	g
150.9359	385,0	130,0	620

Drain pan 8 litres

- With three carry handles
- Safe and clean pouring with the spout
- Ideally suited to collecting different fluids
- Suitable for oil, chemicals, petrol, acid and anti-freeze fluid
- Also suitable for cleaning parts
- Practical, quick and friendly to the environment
- Screwed connection with rubber seal for safe transport
- Shock and impact resistant

	B mm	H mm	L mm	kg
150.9357	340,0	120,0	600,0	1,06

Drain pan 17 litres

- With three carry handles
- Safe and clean pouring with the self-contained overflow edge and spout
- Ideally suited to collecting different fluids
- Suitable for oil, chemicals, petrol, acid and anti-freeze fluid
- Also suitable for cleaning parts
- Practical, quick and friendly to the environment
- Shock and impact resistant

	Ø mm	H mm	kg
150.9360	445,0	145,0	1,07

Drain pan 17 litres

- With three carry handles
- Safe and clean pouring with the self-contained overflow edge and spout
- Ideally suited to collecting different fluids
- Suitable for oil, chemicals, petrol, acid and anti-freeze fluid
- Also suitable for cleaning parts
- Practical, quick and friendly to the environment
- Shock and impact resistant

	Ø mm	H mm	kg
150.9361	445,0	145,0	1,16

Mobile drain pan, 30 litres, extra flat with castors

- With five carry handles
- 12.0 cm high, extra flat edges
- Safe and clean pouring with the closed contained and spout
- Ideally suited to collecting different fluids
- Suitable for oil, chemicals, petrol, acid and anti-freeze fluid
- Also suitable for cleaning parts
- With four steerable castors
- Practical, quick and friendly to the environment
- Includes removable sieve
- Screwed connection with rubber seal for safe transport
- Shock and impact resistant

	B mm	H mm	L mm	kg
150.9354	600,0	120,0	850,0	5,60

Drain pan 55 litres, extra flat

- With four carry handles
- 11.0 cm high, extra flat edges
- Safe and clean pouring with the self-contained overflow edge and spout
- Ideally suited to collecting different fluids
- Suitable for oil, chemicals, petrol, acid and anti-freeze fluid
- Also suitable for cleaning parts
- Practical, quick and friendly to the environment
- Shock and impact resistant
- Polyethylene

	L mm	B mm	H mm	kg
150.9358	1030,0	724,0	110,0	6,80

Vacuum fluid extractor suction pump 9.5 litre

- Ideal for quick, clean and simple suction, intake and emptying of fluids
- Suitable for engine oil, transmission oil, hydraulic oil, brake fluid, water etc.
- For pneumatic use with a compressor or manual use with the integrated hand pump
- Select a suitable probe and suck easily using the vacuum principle
- Suction process automatically stopped when housing is full, preventing fluids from spilling over
- With integrated pressure relief valve for more safety
- With high-quality pump housing and strengthened pump head
- Includes 4 probes for different uses
- Ideally suited to hard-to-reach places thanks to the included, long suction hose
- The suction hose is resistant to petrol and oil
- Polyethylene

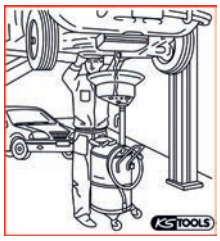
Technical data:

Work pressure:	5-11,5 bar
Capacity:	9,5 l
Operating temperature:	+0°C to +55°C
Filling tube length:	1,5 m
Max. flow rate:	125 l/min

			kg
160.0790	5 pcs	Vacuum fluid extractor suction pump 9.5 litre	5,00

Mobile oil draining device 60 litre

- Basic unit for old oil capture and re-filling
- Pneumatic pressure emptying with manometer and safety valve
- Emptying takes approximately 3 minutes at 0.8 bar
- Heavy deposits can also be removed via a plate on the underside
- Mobile and connectible container with extra-large plastic wheels
- With carry handle
- Stop cock and clamping screws to release pressure
- Extremely manoeuvrable and ideal for workshop design
- Centrally mounted and height-adjustable round drip pan
- Side filling display with measuring scales
- Includes clear fabric hose for draining



Technical data:

Capacity of container:	60 l
Capacity of catch:	ca,16 l
Collection container dimensions:	490 x 580 x 1040 mm
Collection pan dimensions:	Ø 380 mm
Height adjustment:	1040 - 1700 mm

	l	kg
160.0001	60	32,00

WORKSHOP EQUIPMENT

Mobile cleaning station for small parts

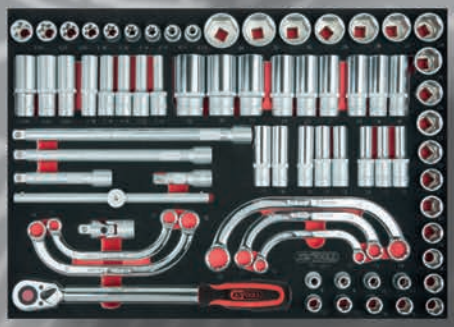
- Mounted metal reservoir with 60 lt tank capacity
- Includes compressed air operated drying pistol
- Cleaning brush with strong bristles
- Emptying of the collecting container by means of pneumatic air
- Includes level indicator display
- Safety valve for the vacuum production and pressure emptying
- High quality 2 m tube and compressed air pistol
- Good maneuverability due to the two solid rubber direct castors
- Storage compartment for small parts
- Includes stop handles
- Especially suitable for use in the car industry
- Ideally suited for removing of stubborn soiling
- Base unit made out of cast iron

Technical data:

Operating pressure:	6,3 bar (90 psi)
Collecting tank:	500 x 810 x 130 mm

	L mm	B mm	H mm	kg
160.0040	490,0	580,0	1040,0	54,00

TOOL CABINET / INSERT MODULE SYSTEM



KS TOOLS®

Innovation is our mission!

TOOL BAGS AND BOXES

Textile hammer holder with belt loop

- Ideal for claw hammer
- Unrestricted movement enables total freedom
- Made out of tear resistant polyester webbing
- With rust proof loop

		g
850.0304	Textile hammer holder with belt loop	130

Universal work waistcoat

- Multi functional with many storage possibilities
- Universal size with 2 adjustable belts
- Includes case for a mobile phone
- Made out of tear resistant polyester webbing

		g
850.0303	Universal work waistcoat	470

Professional tool belt

- Multi functional with many pockets and holders
- Universal size - stepless adjustable up to 120 cm size
- Includes case for a mobile phone
- 2 Hammer holders with rust free metal hooks
- Hook for a tape measure
- Strong belt upholstery for a high level of comfort
- Made out of tear resistant polyester webbing

		g
850.0302	Professional tool belt	920

SMARTBAG universal tool case

- Practical arrangement of compartments in the internal and external areas
- Ideal for accommodating of tools and accessories
- Padded carry handle
- Shoulder strap with strengthening in the shoulder area
- Through flexible hood locking with hook and loop fastener
- Includes 2 small part component trays
- Numerous pockets
- Strong design due to the plastic reinforcement
- Made out of tear resistant polyester webbing

	L mm	B mm	H mm	kg
850.0300	420,0	230,0	260,0	2,25

SMARTBAG universal tool case XL

- Practical arrangement of compartments in the internal and external areas
- Ideal for accommodating of tools and accessories
- Padded carry handle
- Shoulder strap with strengthening in the shoulder area
- Through flexible hood locking with hook and loop fastener
- Numerous pockets
- Strong design due to the plastic reinforcement
- Made out of tear resistant polyester webbing

	L mm	B mm	H mm	kg
850.0325	520,0	250,0	340,0	2,40

ROLLBAG Toolcase with telescopic trolley, empty

- 8 practically arranged storage pockets on the outside area
- 15 practically arranged storage pockets in the internal area
- ideal for tools, accessories and documents
- Padded carry handle
- robust zip
- Strong design due to the plastic reinforcement
- With wide rollers and standing feet for firm standing
- Telescopic carrying handle
- Made out of tear resistant polyester webbing

	L mm	B mm	H mm	kg
850.0305	500,0	280,0	400,0	3,25

ROLLBAG universal tool case XL with telescopic trolley

- Practical arrangement of compartments in the internal and external areas
- Ideal for accommodating of tools and accessories
- Padded carry handle
- Shoulder strap with strengthening in the shoulder area
- Through flexible hood locking with hook and loop fastener
- Numerous pockets
- Strong design due to the plastic reinforcement
- With wide rollers and standing feet for firm standing
- Telescopic carrying handle
- Made out of tear resistant polyester webbing

	L mm	B mm	H mm	kg
850.0335	490,0	330,0	420,0	4,70

SMARTBACKPACK Rucksack Telescope-Trolley

- 4 practically arranged external storage pockets
- 18 practically arranged storage pockets in the internal area
- with extra internal tool pockets for quick reach
- ideal for tools, accessories and documents
- with tape measure holder and hooks for insulation tape
- Padded carry handle
- robust zip
- Strong design due to the plastic reinforcement
- with wide rollers and standing feet for stability
- Telescopic carrying handle
- Made out of tear resistant polyester webbing
- maximum weight up to 40 kg

	L mm	B mm	H mm	kg
850.0334	330,0	270,0	460,0	3,60

ABS hard protective tool case

- Strong hard protective case made from impact resistant plastic
- 1 tool board for indvidual tool mounting
- Lower case shell is on divisible through internal dividers
- Lockable through two locks
- Capacity up to 30 kg

	L mm	B mm	H mm	kg
850.0520	465,0	335,0	150,0	6,00

ABS hard protective case with removable telescopic trolly

- Strong hard protective case made from impact resistant plastic
- Document compartment in upper lid
- 2 tool boards for indvidual tool mounting
- Lower case shell is on divisible through internal dividers
- Lockable through two locks
- Carrying handle with telescopic removable frame
- Capacity up to 30 kg

	L mm	B mm	H mm	kg
850.0530	435,0	310,0	160,0	6,00

ABS gard protective tool case with aluminium frame

- Strong hard protective case made from impact resistant plastic with aluminium frame
- Document compartment in upper lid
- 2 removable tool boards for indvidual tool mounting
- Lower case shell is on divisible through internal dividers
- Lockable through two locks
- Capacity up to 30 kg

	L mm	B mm	H mm	kg
850.0540	471,0	338,0	154,0	3,40

ABS hard protective tool case with hardened aluminium frame

- Strong hard protective case made from impact resistant plastic with hardened aluminium frame
- Document compartment in upper lid
- 2 removable tool boards for indvidual tool mounting
- Lower case shell is on divisible through internal dividers
- Lockable through two locking fastening catches
- Capacity up to 30 kg

	L mm	B mm	H mm	kg
850.0560	460,0	310,0	180,0	4,50

Leather tool case

- Strong tool case made from environment friendly quality leather
- Edges reinforced with aluminum capping
- Folding front wall enables easy access to the tools
- 18 practically arranged storage pockets in the internal area
- 2 Loops on the side walls
- Inner area completely reinforced
- Lockable with two fastening catches
- Standing feet for sensitive surfaces
- Capacity up to 30 kg

	L mm	B mm	H mm	kg
850.0310	420,0	150,0	250,0	2,60

TOOL BOXES

Sheet steel toolbox, 5 compartments

- with riveted hinges
- Compartments can be pulled all the way out
- Highly stable
- Double-seamed edges
- Lockable with padlock
- Red powder coating
- Made of electrolytically galvanised sheet steel

	L mm	B mm	H mm	kg
999.0120	420,0	200,0	190,0	3,45
999.0125	550,0	200,0	190,0	5,60

Universal plastic tool box

- Multi-functional for various storage possibilities
- Includes 2 removable trays for small parts
- Capacity up to 10 kg
- Made from robust plastic

	L mm	B mm	H mm	kg
850.0505	450,0	240,0	260,0	1,70

Mobile plastic sheet steel tool box

- Strong hard protective case made from impact resistant plastic and sheet steel
- Multi-functional for various storage possibilities
- Made of 3 interchangeable stackable parts
- Lockable with two fastening catches
- Telescopic carrying handle
- With wide rollers and standing feet for firm standing
- Load capacity up to 75 kg

	L mm	B mm	H mm	kg
850.0340	520,0	320,0	720,0	15,00

Plastic sheet steel toolboxes

- Strong hard protective case made from impact resistant plastic and sheet steel
- Multi-functional for various storage possibilities
- Includes a removable tray for small parts
- Lockable with two fastening catches
- With retractable two component handle
- Lockable with padlock
- Capacity up to 30 kg

	L mm	B mm	H mm	kg
850.0345	582,0	298,0	255,0	3,25
850.0350	470,0	238,0	203,0	2,00
850.0355	395,0	180,0	170,0	1,40

Plastic sheet steel toolbox set

- Sturdy hard protective case made from impact resistant plastic and sheet steel
- Multi-functional for various storage possibilities
- Includes a removable tray for small parts
- Lockable with two fastening catches
- With retractable two component handle
- Lockable with padlock
- Capacity up to 30 kg

			kg
850.0360	3 pcs	Plastic sheet steel toolbox set	6,70

consists of:

		kg
850.0345	Plastic sheet steel toolboxes 582x298x255mm	3,25
850.0350	Plastic sheet steel toolbox 470x238x203mm	2,00
850.0355	Plastic sheet steel toolbox 395x180x170mm	1,40

TOOL CHESTS

Tool chest with 3 drawers - red

- Robust and stable steel construction with 0,8 mm sheet steel - distortion resistant
- High level of stability
- Central locking of all drawers through lid opening and lid closure
- Lid locked by cylinder lock
- With integrated storage compartment in the lid
- upper storage dimension: 515 mm x 250 mm x 55 mm
- Ball bearing drawer runners
- Drawers are 90% extendable
- Drawers with non-slip rubber mat
- Continuous handle with 2,5 mm contrasting chrome plated steel
- Good comprehensive view due to possibility of marking the individual drawers
- Includes interchangeable paper strip in the handle strip

Technical data:

Drawer internal dimensions:	445 mm x 220 mm x 40 mm
Total load capacity:	50 kg
Load capacity of each drawer:	10 kg

	L mm	B mm	H mm	kg
891.0003	520,0	260,0	302,0	11,68

Tool chest with 3 drawers - black

- Robust and stable steel construction with 0,8 mm sheet steel - distortion resistant
- High level of stability
- Central locking of all drawers through lid opening and lid closure
- Lid locked by cylinder lock
- With integrated storage compartment in the lid
- upper storage dimension: 515 mm x 250 mm x 55 mm
- Ball bearing drawer runners
- Drawers are 90% extendable
- Drawers with non-slip rubber mat
- Continuous handle with 2,5 mm contrasting chrome plated steel
- Good comprehensive view due to possibility of marking the individual drawers
- Includes interchangeable paper strip in the handle strip

Technical data:

Drawer internal dimensions:	445 mm x 220 mm x 40 mm
Total load capacity:	50 kg
Load capacity of each drawer:	10 kg

	L mm	B mm	H mm	kg
801.0003	520,0	260,0	302,0	12,27

Sheet steel tool chest

- Robust and stable steel construction with 0,8 mm sheet steel - distortion resistant
- High level of stability
- Metal clasps simply lockable
- reinforced handles
- Special tool steel

	L mm	B mm	H mm	kg
999.0150	550,0	300,0	300,0	6,20
999.0160	670,0	350,0	350,0	9,80
999.0170	800,0	350,0	350,0	11,30
999.0180	850,0	350,0	350,0	13,80
999.0190	1000,0	480,0	365,0	18,50

Sheet steel tool chest with shelf

- Robust and stable steel construction with 0,8 mm sheet steel - distortion resistant
- High level of stability
- Metal clasps simply lockable
- Includes a removable tray for small parts
- reinforced handles
- Special tool steel

	L mm	B mm	H mm	kg
999.0155	550,0	300,0	300,0	7,30
999.0165	670,0	350,0	350,0	13,50
999.0175	800,0	350,0	350,0	15,80
999.0185	850,0	350,0	350,0	16,00
999.0195	1000,0	480,0	365,0	22,00

Sheet steel tool chest

- Extremly robust and stable steel construction with 1,5 mm sheet steel - distortion resistant
- multi-point locking system
- recessed safety lock
- Lid unbreakable due to nested construction
- protected, tamper-proof hinges
- Lid with gas pressure dampers
- Rear panel with cable passage that can be closed from the inside
- Foldable handles

	L mm	B mm	H mm		kg
999.0550	913,0	455,0	470,0	180	35,00
999.0560	1120,0	650,0	595,0	350	79,00
999.0570	1780,0	650,0	595,0	550	120,00

SERVICE TROLLEYS

ECO*line* Workshop service trolley

- Made from robust sheet steel construction
- Easy to move, even with heavy loads
- All shelves with high retaining border
- Internal dimension 565 x 395 mm
- With side pull handle
- Two fixed wheels Ø 100 mm
- Two castor wheels Ø 100 mm with rolling and turning brake
- High level of stability

Technical data:

Tray internal dimensions:	565 x 395 mm
Total load capacity:	150 kg
Wheel diameter:	100 mm

	H mm	B mm	T mm	kg
890.0001	850,0	680,0	425,0	12,60

Workshop service trolley

- Extremely substaintial plastic construction
- Without screws easily costructed
- Distance between the ground 30 cm
- With two handles
- 2 castor wheels 100 mm
- 2 castor wheels with brake 100 mm
- High level of stability
- Light profile weight
- Columns made out of anodised aluminum

Technical data:

Tray internal dimensions:	710 x 440 mm
Total load capacity:	200 kg
Wheel diameter:	100 mm

	H mm	B mm	T mm	kg
800.0020	1010,0	860,0	480,0	12,10

Workshop service trolley with 2 drawers

- Extremely substaintial plastic construction
- Without screws easily costructed
- Two ball bearing drawer runner guides
- With two handles
- 2 castor wheels 100 mm
- 2 castor wheels with brake 100 mm
- High level of stability
- Light profile weight
- Columns made out of anodised aluminum

Technical data:

Drawer internal dimensions:	520 x 430 x 85 mm
Total load capacity:	200 kg
Load capacity of each drawer:	35 kg
Wheel diameter:	100 mm

	H mm	B mm	T mm	kg
800.0030	1010,0	860,0	480,0	14,20

ECO*line* Workshop-Service Trolley with Perforated Plate Cover

- Made from robust sheet steel construction
- Easy to move, even with heavy loads
- All shelves with high retaining border
- Internal dimension 565 x 395 mm
- lateral perforated steel cover for use with extra tools
- lockable at the back
- clearly organised workspace
- With side pull handle
- Two fixed wheels Ø 100 mm
- Two castor wheels Ø 100 mm with rolling and turning brake
- High level of stability

Technical data:

Tray internal dimensions:	565 x 395 mm
Total load capacity:	150 kg
Wheel diameter:	100 mm

	H mm	B mm	T mm	kg
890.0006	850,0	682,0	426,0	20,00

Workshop service trolley with lining

- Extremely substaintial plastic construction
- Equipment lining
- Without screws easily costructed
- Distance between the ground 30 cm
- With two handles
- 2 castor wheels 100 mm
- 2 castor wheels with brake 100 mm
- High level of stability
- Light profile weight
- Columns made out of anodised aluminum

Technical data:

Tray internal dimensions:	710 x 440 mm
Total load capacity:	200 kg
Wheel diameter:	100 mm

	H mm	B mm	T mm	kg
800.0021	1010,0	860,0	480,0	12,10

Workshop service trolley with 2 drawers and lining

- Extremely substaintial plastic construction
- Without screws easily costructed
- Two ball bearing drawer runner guides
- With two handles
- 2 castor wheels 100 mm
- 2 castor wheels with brake 100 mm
- High level of stability
- Light profile weight
- Columns made out of anodised aluminum

Technical data:

Drawer internal dimensions:	520 x 430 x 85 mm
Total load capacity:	200 kg
Load capacity of each drawer:	35 kg
Wheel diameter:	100 mm

	H mm	B mm	T mm	kg
800.0031	1010,0	860,0	480,0	15,00

Service trolley

- Ideally suited as mobile PC station, exhaust gas test station or as storage and operation trolley for diagnostic equipment
- Also suitable for customer service entrainment
- Robust and stable steel construction with 1,0 mm sheet steel distortion resistant
- High level of stability
- Lockable door
- With several openings for passing the cord
- Ball bearing drawer runners
- Drawers are extendable
- Front side edges are rounded
- Internal hinges and cylinder lock
- 2 shelves, universal adjustable in height
- Four castor wheels Ø 125 mm with rolling and turning brake
- Electrostatic powder coating

Technical data:

Drawer internal dimensions:	300 x 450 x 55 mm
Total load capacity:	150 kg
Load capacity of each drawer:	25 kg
Wheel diameter:	125 mm

	Total depth mm	Width mm	Depth mm	kg
865.0020	1155,0	500,0	500,0	47,00

TOOLBOX TOOL CABINETS

TOOLBOX Tool carriage / assembly trolley, collapsible and lockable

- Very stable steel construction with 1.0 mm sheet steel - distortion resistant
- High level of stability
- With additional, adjustable storage area for the middle shelves (for small parts, vernier calliper etc.)
- With four separating plates to divide the middle shelves
- Spacious lower compartment made of stainless steel
- Can be lowered
- Lockable with in-built cylinder lock
- Telescopic handles and with locking button
- Includes circumferential corner protection (rubber profile)
- Robust ABS work surface with storage recesses
- With two lateral, ergonomic handles
- With two fixed wheels Ø 160 mm
- With two steering wheels Ø 75 mm with rolling and turning brake
- Electrostatic powder coating

Technical data:

Tray internal dimensions:	620 x 272 mm
Total load capacity:	80,0 kg

	H mm	B mm	T mm	kg
895.0015	1060,0	720,0	330,0	21,00

TOOLBOX PVC worktop

- ideal as bespoke work surface
- suitable for TOOLBOX only
- joint free
- warp-resistant
- smooth work surface
- PVC

	L mm	B mm	H mm	kg
895.0006	400,0	267,0	17,0	3,40

TOOLBOX MDF worktop

- ideal as bespoke work surface
- suitable for TOOLBOX only
- joint free
- warp-resistant
- glued plywood
- protective coating
- smooth work surface
- MDF

	L mm	B mm	H mm	kg
895.0004	400,0	267,0	17,0	1,20

TOOLBOX MDF worktop, stainless steel coated

- ideal as bespoke work surface
- suitable for TOOLBOX only
- joint free
- warp-resistant
- glued plywood
- protective coating
- smooth work surface
- stainless steel-covered MDF

	L mm	B mm	H mm	kg
895.0005	400,0	267,0	17,0	2,04

ECO*line* TOOL CABINETS

ECO*line* BLACK/RED tool cabinet with 7 drawers

- Robust and stable steel construction with 0,8 mm sheet steel - distortion resistant
- High level of stability
- Central locking system on all drawers through the cylinder lock
- Ball bearing drawer runners
- Drawers are 100% extendable
- Cabinet top has a 5 mm durable foam insert mat
- Full width metal handle
- Two fixed wheels Ø 100 mm
- Two castor wheels Ø 100 mm with rolling and turning brake
- Side mounted handle
- Electrostatic powder coating

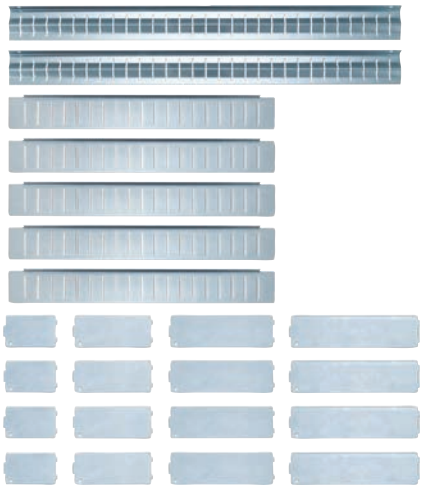
Technical data:

Total capacity:	W 678 x H 990 x D 459 mm
Drawer internal dimensions:	565 x 395 mm
Total load capacity:	250,0 kg
Load capacity of each drawer:	25,0 kg

		no	75 mm	150 mm	kg
896.0007		7	6	1	41,40

Drawer divider set

- For use only in drawers with inside dimensions 565 x 395 mm
- options to store various tools
- Suitable for ECO*Line*, BASIC*Line*, MASTER*Line* and ULTIMATE*Line*
- Individually adjustable
- Sheet steel



			kg
875.9940	23 pcs	Drawer divider set	3,00

consists of:

		g
875.9941	Fix panel 565x50x1,5 mm	258
875.9942	Fix panel 393x50x1,5 mm	252
875.9943	Big panel 188x50x1,5 mm	116
875.9944	Big panel 150x50x1,5 mm	90
875.9945	Middle panel 112x50x1,5 mm	69
875.9946	Small panel 79,4 x 50 x 1,5 mm	46

BASIC*line* TOOL CABINETS

BASIC*line* BLACK/RED tool cabinet with 7 drawers

- Robust and stable steel construction with 0,8 mm sheet steel - distortion resistant
- High level of stability
- Central locking system on all drawers through the cylinder lock
- Ball bearing drawer runners
- Drawers are 100% extendable
- Drawers with non-slip rubber mat
- Cabinet top has a 10 mm durable foam insert mat
- Full width metal handle
- Two fixed wheels Ø 100 mm
- Two castor wheels Ø 100 mm with rolling and turning brake
- Side mounted handle
- Electrostatic powder coating
- Can be combined with a top chest

Technical data:

Total capacity:	W 678 x H 990 x D 459 mm
Drawer internal dimensions:	565 x 395 mm
Total load capacity:	350,0 kg
Load capacity of each drawer:	30,0 kg

		no	75 mm	150 mm	kg
836.0007		7	5	2	51,29

BASIC*line* BLACK/SILVER tool cabinet with 7 drawers

- Robust and stable steel construction with 0,8 mm sheet steel - distortion resistant
- High level of stability
- Central locking system on all drawers through the cylinder lock
- Ball bearing drawer runners
- Drawers are 100% extendable
- Drawers with non-slip rubber mat
- Cabinet top has a 10 mm durable foam insert mat
- Full width metal handle
- Two fixed wheels Ø 100 mm
- Two castor wheels Ø 100 mm with rolling and turning brake
- Side mounted handle
- Electrostatic powder coating
- Can be combined with a top chest

Technical data:

Total capacity:	W 678 x H 990 x D 459 mm
Drawer internal dimensions:	565 x 395 mm
Total load capacity:	350,0 kg
Load capacity of each drawer:	30,0 kg

		no	75 mm	150 mm	kg
838.0007		7	5	2	51,29

BASIC*line* BLACK/RED tool cabinet top chest with 4 drawers

- Robust and stable steel construction with 0,8 mm sheet steel - distortion resistant
- High level of stability
- Central locking system on all drawers through the cylinder lock
- Ball bearing drawer runners
- Drawers are 100% extendable
- Drawers with non-slip rubber mat
- Cabinet top has a 10 mm durable foam insert mat
- Side mounted carry handles
- Side mounted handle
- Combination with tool cabinet

Technical data:

Total capacity:	B 678 x H 451 x T 459 mm
Drawer internal dimensions:	565 x 395 mm
Total load capacity:	175,0 kg
Load capacity of each drawer:	30,0 kg

		no	75 mm	150 mm	kg
836.0014		4	4	-	36,00

BASIC*line* BLACK/SILVER tool cabinet top chest with 4 drawers

- Robust and stable steel construction with 0,8 mm sheet steel - distortion resistant
- High level of stability
- Central locking system on all drawers through the cylinder lock
- Ball bearing drawer runners
- Drawers are 100% extendable
- Drawers with non-slip rubber mat
- Cabinet top has a 10 mm durable foam insert mat
- Side mounted carry handles
- Side mounted handle
- Combination with tool cabinet

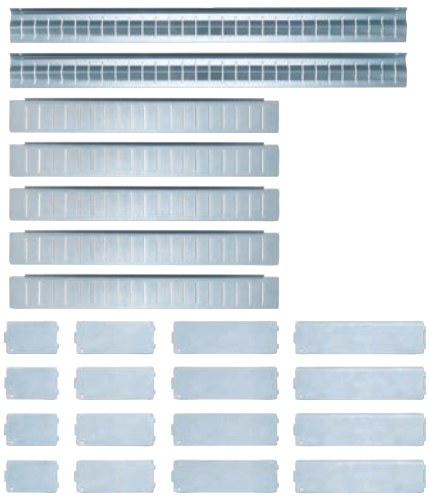
Technical data:

Total capacity:	B 678 x H 451 x T 459 mm
Drawer internal dimensions:	565 x 395 mm
Total load capacity:	175,0 kg
Load capacity of each drawer:	30,0 kg

		no	75 mm	150 mm	kg
838.0014		4	4	-	36,00

Drawer divider set

- For use only in drawers with inside dimensions 565 x 395 mm
- options to store various tools
- Suitable for ECO*Line*, BASIC*Line*, MASTER*Line* and ULTIMATE*Line*
- Individually adjustable
- Sheet steel



			kg
875.9940	23 pcs	Drawer divider set	3,00

consists of:

		g
875.9941	Fix panel 565x50x1,5 mm	258
875.9942	Fix panel 393x50x1,5 mm	252
875.9943	Big panel 188x50x1,5 mm	116
875.9944	Big panel 150x50x1,5 mm	90
875.9945	Middle panel 112x50x1,5 mm	69
875.9946	Small panel 79,4 x 50 x 1,5 mm	46

RACING*line* TOOL CABINETS

RACING*line* BLACK/RED tool cabinet with 7 drawers

- Very stable steel construction with 0,9 mm sheet steel - distortion resistant
- High level of stability
- Side walls with metal peg board for mounting different accessories
- Handle locking system prevents unintentional opening
- Central locking system on all drawers through the cylinder lock
- Ball bearing drawer runners
- With polyurethan corner protection
- Drawers are 90% extendable
- Robust ABS work surface with storage recesses
- Full width metal handle
- Two fixed wheels Ø 125 mm
- Two castor wheels Ø 125 mm with rolling and turning brake
- Side mounted handle
- Electrostatic powder coating

Technical data:

Total capacity:	W 788 x H 976 x D 496 mm
Drawer internal dimensions:	565 x 395 mm
Total load capacity:	350,0 kg
Load capacity of each drawer:	30,0 kg

		no	75 mm	150 mm	kg
826.0007		7	5	2	52,40

RACING*line* BLACK/RED tool cabinet with 7 drawers and 1 door

- Very stable steel construction with 0,9 mm sheet steel - distortion resistant
- High level of stability
- Side walls with metal peg board for mounting different accessories
- Handle locking system prevents unintentional opening
- Central locking system on all drawers through the cylinder lock
- Lockable door
- Ball bearing drawer runners
- With polyurethan corner protection
- Drawers are 90% extendable
- Robust ABS work surface with storage recesses
- Full width metal handle
- Two fixed wheels Ø 125 mm
- Two castor wheels Ø 125 mm with rolling and turning brake
- Side mounted handle
- Electrostatic powder coating

Technical data:

Total capacity:	W 1150 x H 945 x D 459 mm
Drawer internal dimensions:	565 x 395 mm
Door dimensions:	H 711 x W 433.5 mm
Total load capacity:	450,0 kg
Load capacity of each drawer:	30,0 kg

		no	75 mm	150 mm	kg
827.0007		7	5	2	75,00

RACING*line*+ TOOL CABINETS

RACING*line*+ BLACK/RED tool cabinet with 7 drawers

- Stainless steel worktop
- ABS border with compartments for small parts
- Very stable steel construction with 0,9 mm sheet steel - distortion resistant
- High level of stability
- Side walls with metal peg board for mounting different accessories
- Handle locking system prevents unintentional opening
- Central locking system on all drawers through the cylinder lock
- Ball bearing drawer runners
- With polyurethan corner protection
- Drawers are 90% extendable
- Full width metal handle
- Two fixed wheels Ø 125 mm
- Two castor wheels Ø 125 mm with rolling and turning brake
- Side mounted handle
- Electrostatic powder coating

Technical data:

Total capacity:	W 678 x H 945 x D 459 mm
Drawer internal dimensions:	565 x 395 mm
Total load capacity:	350,0 kg
Load capacity of each drawer:	30,0 kg

		no	75 mm	150 mm	kg
826.1007		7	5	2	52,40

RACING*line*+ BLACK/RED tool cabinet with 7 drawers and 1 door

- Stainless steel worktop
- ABS border with compartments for small parts
- Very stable steel construction with 0,9 mm sheet steel - distortion resistant
- High level of stability
- Side walls with metal peg board for mounting different accessories
- Handle locking system prevents unintentional opening
- Central locking system on all drawers through the cylinder lock
- Ball bearing drawer runners
- With polyurethan corner protection
- Drawers are 90% extendable
- Full width metal handle
- Two fixed wheels Ø 125 mm
- Two castor wheels Ø 125 mm with rolling and turning brake
- Side mounted handle
- Electrostatic powder coating

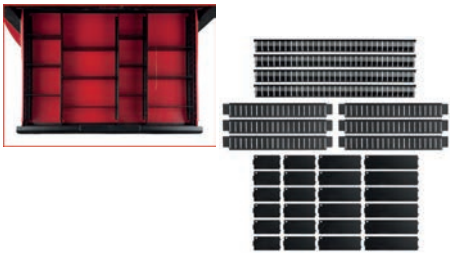
Technical data:

Total capacity:	W 1150 x H 945 x D 459 mm
Drawer internal dimensions:	565 x 395 mm
Door dimensions:	H 711 x W 433.5 mm
Total load capacity:	450,0 kg
Load capacity of each drawer:	30,0 kg

		no	75 mm	150 mm	kg
827.1007		7	5	2	75,00

Drawer divider set

- can only be used for drawers with internal dimensions 565 x 395mm with handle strip in the inlay area
- Only for RACING*Line*
- options to store various tools
- Individually adjustable
- Sheet steel



			kg
875.9950	34 pcs	Drawer divider set	3,89

consists of:

	x		g
875.9951	4	Fix panel 566x43,5x1,2 mm	280
875.9952	6	Fix panel 393 x 51 x 1,2 mm	200
875.9953	6	Big panel 193 x 50 x 1,2 mm	90
875.9954	6	Big panel 155 x 50 x 1,2 mm	70
875.9955	6	Middle panel 117 x 50 x 1,2 mm	50
875.9956	6	Small panel 79 x 50 x 1,2 mm	45

MASTER*line* TOOL CABINETS

MASTER*line* BLACK/RED tool cabinet with 7 drawers

- Very stable steel construction with 0,9 mm sheet steel - distortion resistant
- High level of stability
- Rear and side walls with metal peg board for mounting different accessories
- Handle locking system prevents unintentional opening
- Central locking system on all drawers through the cylinder lock
- Ball bearing drawer runners
- Drawers are 100% extendable
- Drawers with non-slip rubber mat
- Cabinet top has a 10 mm durable foam insert mat
- Full width polyurethane coated metal handle
- Two fixed wheels Ø 125 mm
- Two castor wheels Ø 125 mm with rolling and turning brake
- Side mounted handle
- Electrostatic powder coating
- Can be combined with a top chest

Technical data:

Total capacity:	W 727 x H 1005 x D 460 mm
Drawer internal dimensions:	565 x 395 mm
Total load capacity:	450 kg
Load capacity of each drawer:	40 kg

		no	75 mm	150 mm	kg
876.0007		7	5	2	68,00

MASTER*line* BLACK/RED tool cabinet top chest with 4 drawers

- Very stable steel construction with 0,9 mm sheet steel - distortion resistant
- High level of stability
- Rear and side walls with metal peg board for mounting different accessories
- Handle locking system prevents unintentional opening
- Central locking system on all drawers through the cylinder lock
- Ball bearing drawer runners
- Drawers are 100% extendable
- Drawers with non-slip rubber mat
- Cabinet top has a 10 mm durable foam insert mat
- Side mounted handle
- Electrostatic powder coating
- Combination with tool cabinet

Technical data:

Total capacity:	B 727 x H 451 x T 460 mm
Drawer internal dimensions:	565 x 395 mm
Total load capacity:	250 kg
Load capacity of each drawer:	40 kg

		no	75 mm	150 mm	kg
876.0014		4	4	-	38,00

MASTER*line* BLACK/SILVER tool cabinet with 7 drawers

- Very stable steel construction with 0,9 mm sheet steel - distortion resistant
- High level of stability
- Rear and side walls with metal peg board for mounting different accessories
- Handle locking system prevents unintentional opening
- Central locking system on all drawers through the cylinder lock
- Ball bearing drawer runners
- Drawers are 100% extendable
- Drawers with non-slip rubber mat
- Cabinet top has a 10 mm durable foam insert mat
- Full width polyurethane coated metal handle
- Two fixed wheels Ø 125 mm
- Two castor wheels Ø 125 mm with rolling and turning brake
- Side mounted handle
- Electrostatic powder coating
- Can be combined with a top chest

Technical data:

Total capacity:	W 727 x H 1005 x D 460 mm
Drawer internal dimensions:	565 x 395 mm
Total load capacity:	450 kg
Load capacity of each drawer:	40 kg

		no	75 mm	150 mm	kg
878.0007		7	5	2	68,00

MASTER*line* BLACK/SILVER tool cabinet top chest with 4 drawers

- Very stable steel construction with 0,9 mm sheet steel - distortion resistant
- High level of stability
- Rear and side walls with metal peg board for mounting different accessories
- Handle locking system prevents unintentional opening
- Central locking system on all drawers through the cylinder lock
- Ball bearing drawer runners
- Drawers are 100% extendable
- Drawers with non-slip rubber mat
- Cabinet top has a 10 mm durable foam insert mat
- Side mounted handle
- Electrostatic powder coating
- Combination with tool cabinet

Technical data:

Total capacity:	B 727 x H 451 x T 460 mm
Drawer internal dimensions:	565 x 395 mm
Total load capacity:	250 kg
Load capacity of each drawer:	40 kg

		no	75 mm	150 mm	kg
878.0014		4	4	-	38,00

MASTER*line* BLACK/SILVER tool cabinet with 2 shelf parts

- Very stable steel construction with 0,9 mm sheet steel - distortion resistant
- High level of stability
- Rear and side walls with metal peg board for mounting different accessories
- Handle locking system prevents unintentional opening
- Central locking system on all drawers through the cylinder lock
- Ball bearing drawer runners
- Drawers are 100% extendable
- Drawers with non-slip rubber mat
- Cabinet top has a 10 mm durable foam insert mat
- Full width polyurethane coated metal handle
- Two fixed wheels Ø 125 mm
- Two castor wheels Ø 125 mm with rolling and turning brake
- Side mounted handle
- Electrostatic powder coating

Technical data:

Total capacity:	B 993 x H 1000 x T 460 mm
Drawer internal dimensions:	565 x 395 mm
Total load capacity:	800 kg
Load capacity of each drawer:	40 kg

		no	75 mm	150 mm	kg
878.0006		6	3	3	88,00

MASTER*line* BLACK/SILVER tool cabinet with 8 drawers

- Very stable steel construction with 0,9 mm sheet steel - distortion resistant
- High level of stability
- Rear and side walls with metal peg board for mounting different accessories
- Handle locking system prevents unintentional opening
- Central locking system on all drawers through the cylinder lock
- Ball bearing drawer runners
- Drawers are 100% extendable
- Drawers with non-slip rubber mat
- Cabinet top has a 10 mm durable foam insert mat
- Full width polyurethane coated metal handle
- Two fixed wheels Ø 125 mm
- Two castor wheels Ø 125 mm with rolling and turning brake
- Side mounted handle
- Electrostatic powder coating
- Can be combined with a top chest

Technical data:

Total capacity:	W 910 x H 995 x D 460 mm
Drawer internal dimensions:	752 x 395 mm
Total load capacity:	800 kg
Load capacity of each drawer:	40 kg

		no	75 mm	150 mm	kg
878.0008		8	7	1	80,00

MASTER*line* BLACK/SILVER tool cabinet top chest with 4 drawers

- Very stable steel construction with 0,9 mm sheet steel - distortion resistant
- High level of stability
- Rear and side walls with metal peg board for mounting different accessories
- Handle locking system prevents unintentional opening
- Central locking system on all drawers through the cylinder lock
- Ball bearing drawer runners
- Drawers are 100% extendable
- Drawers with non-slip rubber mat
- Cabinet top has a 10 mm durable foam insert mat
- Side mounted handle
- Electrostatic powder coating
- Combination with tool cabinet

Technical data:

Total capacity:	W 910 x H 455 x D 460 mm
Drawer internal dimensions:	752 x 395 mm
Total load capacity:	250 kg
Load capacity of each drawer:	40 kg

		no	75 mm	150 mm	kg
878.1014		4	4	-	41,10

MASTER*line* tool cabinet with 11 drawers + 2 shelf parts black/silver

- Very stable steel construction with 0,9 mm sheet steel - distortion resistant
- High level of stability
- Rear and side walls with metal peg board for mounting different accessories
- Handle locking system prevents unintentional opening
- Central locking system on all drawers through the cylinder lock
- Ball bearing drawer runners
- Drawers are 100% extendable
- Drawers with non-slip rubber mat
- Wooden cabinet top 38 mm
- Full width polyurethane coated metal handle
- Two fixed wheels Ø 125 mm
- Two castor wheels Ø 125 mm with rolling and turning brake
- Side mounted handle
- Electrostatic powder coating
- Can be combined with a top chest

Technical data:

Total capacity:	W 1158 x H 1005 x D 720 mm
Drawer internal dimensions:	565 x 395 mm
Total load capacity:	1000 kg
Load capacity of each drawer:	40 kg

		no	75 mm	150 mm	kg
878.0012		11	8	3	173,00

MASTER*line* tool cabinet with 16 drawers

- Very stable steel construction with 0,9 mm sheet steel - distortion resistant
- High level of stability
- Rear and side walls with metal peg board for mounting different accessories
- Ball bearing drawer runners
- Drawers are 100% extendable
- Drawers with non-slip rubber mat
- Cabinet top has a 10 mm durable foam insert mat
- Full width polyurethane coated metal handle
- With two fixed wheels Ø 132 mm
- With two castor wheels Ø 132 mm with rolling and turning brake
- Side mounted handle
- Electrostatic powder coating
- Can be combined with a top chest
- 2 stage locking mechanism
- Handle locking system prevents unintentional opening
- Central locking system on all drawers through the cylinder lock

Technical data:

Total capacity:	W 1157.5 x H 1000 x D 481 mm
Drawer internal dimensions:	7 x 375 x 398 x 75 mm
	7 x 569 x 398 x 75 mm
	1 x 375 x 398 x 154 mm
	1 x 569 x 398 x 154 mm
Total load capacity:	800 kg
Load capacity of each drawer:	40 kg

		no	75 mm	150 mm	kg
876.0016		16	14	2	124,00
878.0016		16	14	2	124,00

MASTER*line* large tool cabinet with 8 drawers

- Very stable steel construction with 0,9 mm sheet steel - distortion resistant
- High level of stability
- Rear and side walls with metal peg board for mounting different accessories
- Ball bearing drawer runners
- Drawers are 100% extendable
- Drawers with non-slip rubber mat
- Cabinet top has a 10 mm durable foam insert mat
- Side mounted handle
- Electrostatic powder coating
- Combination with tool cabinet
- two folding carrying handles each
- 2 stage locking mechanism
- Handle locking system prevents unintentional opening
- Central locking system on all drawers through the cylinder lock

Technical data:

Total capacity:	W 1157.5 x H 454.5 x D 481 mm
Drawer internal dimensions:	4 x 375 x 398 x 75 mm
	4 x 569 x 398 x 75 mm
Total load capacity:	400 kg
Load capacity of each drawer:	40 kg

		no	75 mm	150 mm	kg
876.0018		8	8	-	61,00
878.0018		8	8	-	61,00

MASTER*line* ACCESSORIES

Rear wall system for tool cabinets

- for additional tools
- clearly organised workspace
- Consisting of 2 square peg board 70 x 45 cm
- steel sheet construction
- for ULIMATE und MASTERline tool cabinets

	Colour code	B mm	H mm	kg
885.9901		727,0	90,0	8,00
888.9902		727,0	90,0	8,00

MASTER*line* wooden worktop

- Can be used instead of the rubber mat
- Multiplex Beech Plywood
- joint free
- warp-resistant
- glued plywood
- protective coating
- smooth work surface

	L mm	B mm	H mm	kg
875.9915	450,0	710,0	18,0	5,00

MASTER*line* alu grooved top

- Can be used instead of the rubber mat
- Easy to maintain
- Surface is lightly corrugated
- Ideal for use as a work surface

	L mm	B mm	H mm	kg
875.9920	460,0	727,0	2,0	2,50

MASTER*line* storage tray insert

- Storage tray for small parts
- Suitable for use in the tool cabinet drawer
- Smooth surface

	Colour code	L mm	B mm	H mm	kg
875.9925		570,0	153,0	10,0	0,95
875.9926		570,0	153,0	10,0	0,95

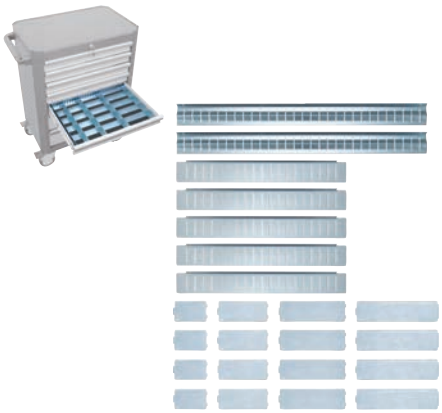
220 V Cable reel

- Clamping device
- Ideal for heavy use on construction sites, in the workshop and industrial areas
- 10 Meter cable length
- Drum body out of special plastic
- 4 Protected socket outlets
- Overheating protection
- Control lamp for overheating and overload
- 4 x Safety plugs

	B mm	H mm	kg
875.9930	238,0	290,0	1,20

Drawer divider set

- For use only in drawers with inside dimensions 565 x 395 mm
- options to store various tools
- Suitable for ECO*Line*, BASIC*Line*, MASTER*Line* and ULTIMATE*Line*
- Individually adjustable
- Sheet steel



		kg
875.9940	23 pcs Drawer divider set	3,00

consists of:

		g
875.9941	Fix panel 565x50x1,5 mm	258
875.9942	Fix panel 393x50x1,5 mm	252
875.9943	Big panel 188x50x1,5 mm	116
875.9944	Big panel 150x50x1,5 mm	90
875.9945	Middle panel 112x50x1,5 mm	69
875.9946	Small panel 79,4 x 50 x 1,5 mm	46

ULTIMATE*line* TOOL CABINETS

ULTIMATE*line* RED/SILVER tool cabinet with 7 drawers

- Extremly robust and stable steel construction with 1,0 mm sheet steel - distortion resistant
- Due to secure steel plate construction highly resilient
- Very high level of stabilbilty and safety - as a maximum one drawer can be opened at a time
- Robust corner protection due to the aluminium reinforcement
- Receased rear and side walls with metal peg board for mounting different accessories
- Handle locking system prevents unintentional opening
- Central locking system with individual drawer locking system
- Independent central locking can be disabled if required
- Ball bearing drawer runners with automatic spring return
- Drawers are 100% extendable
- Drawers with non-slip rubber mat
- Robust ABS work surface with tool holders and storage recesses
- With side mounted handle
- Two fixed wheels Ø 125 mm
- Two castor wheels Ø 125 mm with rolling and turning brake
- Full width aluminium drawer handle
- Electrostatic powder coating
- Can be combined with a top chest

Technical data:

Total capacity:	B 739 x H 1013 x T 460 mm
Drawer internal dimensions:	565 x 395 mm
Total load capacity:	600 kg
Load capacity of each drawer:	45 kg

		no	75 mm	150 mm	kg
886.0007		7	5	2	70,70

ULTIMATE*line* BLACK/SILVER tool cabinet with 7 drawers

- Extremly robust and stable steel construction with 1,0 mm sheet steel - distortion resistant
- Due to secure steel plate construction highly resilient
- Very high level of stabilbilty and safety - as a maximum one drawer can be opened at a time
- Robust corner protection due to the aluminium reinforcement
- Receased rear and side walls with metal peg board for mounting different accessories
- Handle locking system prevents unintentional opening
- Central locking system with individual drawer locking system
- Independent central locking can be disabled if required
- Ball bearing drawer runners with automatic spring return
- Drawers are 100% extendable
- Drawers with non-slip rubber mat
- Robust ABS work surface with tool holders and storage recesses
- With side mounted handle
- Two fixed wheels Ø 125 mm
- Two castor wheels Ø 125 mm with rolling and turning brake
- Full width aluminium drawer handle
- Electrostatic powder coating
- Can be combined with a top chest

Technical data:

Total capacity:	B 739 x H 1013 x T 460 mm
Drawer internal dimensions:	565 x 395 mm
Total load capacity:	600 kg
Load capacity of each drawer:	45 kg

		no	75 mm	150 mm	kg
888.0007		7	5	2	70,70

ULTIMATE*line* RED/SILVER tool cabinet top chest with 4 drawers

- Extremly robust and stable steel construction with 1,0 mm sheet steel - distortion resistant
- Due to secure steel plate construction highly resilient
- Very high level of stabilbilty and safety - as a maximum one drawer can be opened at a time
- Robust corner protection due to the aluminium reinforcement
- Receased rear and side walls with metal peg board for mounting different accessories
- Handle locking system prevents unintentional opening
- Central locking system with individual drawer locking system
- Independent central locking can be disabled if required
- Ball bearing drawer runners with automatic spring return
- Drawers are 100% extendable
- Drawers with non-slip rubber mat
- Cabinet top has a 10 mm durable foam insert mat
- Full width aluminium drawer handle
- Electrostatic powder coating
- Combination with tool cabinet

Technical data:

Total capacity:	B 727 x H 451 x T 460 mm
Drawer internal dimensions:	565 x 395 mm
Total load capacity:	300 kg
Load capacity of each drawer:	45 kg

		no	75 mm	150 mm	kg
886.0014		4	4	-	38,20

ULTIMATE*line* BLACK/SILVER tool cabinet top chest with 4 drawers

- Extremly robust and stable steel construction with 1,0 mm sheet steel - distortion resistant
- Due to secure steel plate construction highly resilient
- Very high level of stabilbilty and safety - as a maximum one drawer can be opened at a time
- Robust corner protection due to the aluminium reinforcement
- Receased rear and side walls with metal peg board for mounting different accessories
- Handle locking system prevents unintentional opening
- Central locking system with individual drawer locking system
- Independent central locking can be disabled if required
- Ball bearing drawer runners with automatic spring return
- Drawers are 100% extendable
- Drawers with non-slip rubber mat
- Cabinet top has a 10 mm durable foam insert mat
- Full width aluminium drawer handle
- Electrostatic powder coating
- Combination with tool cabinet

Technical data:

Total capacity:	B 727 x H 451 x T 460 mm
Drawer internal dimensions:	565 x 395 mm
Total load capacity:	300 kg
Load capacity of each drawer:	45 kg

		no	75 mm	150 mm	kg
888.0014		4	4	-	38,20

ULTIMATE*line* ACCESSORIES

Rear wall system for tool cabinets

- for additional tools
- clearly organised workspace
- Consisting of 2 square peg board 70 x 45 cm
- steel sheet construction
- for ULIMATE und MASTERline tool cabinets

	Colour code	B mm	H mm	kg
885.9901		727,0	90,0	8,00
888.9902		727,0	90,0	8,00

ULTIMATE*line* wooden worktop

- Multiplex Beech Plywood
- joint free
- warp-resistant
- glued plywood
- protective coating
- smooth work surface

	L mm	B mm	H mm	kg
885.9915	335,0	625,0	18,0	5,00

ULTIMATE*line* alu grooved top

- Can be used instead of the ABS plate
- Easy to maintain
- Surface is lightly corrugated
- Ideal for use as a work surface

	L mm	B mm	H mm	kg
885.9920	625,0	335,0	1,6	1,31

220 V Cable reel

- Clamping device
- Ideal for heavy use on construction sites, in the workshop and industrial areas
- 10 Meter cable length
- Drum body out of special plastic
- 4 Protected socket outlets
- Overheating protection
- Control lamp for overheating and overload
- 4 x Safety plugs

	B mm	H mm	kg
875.9930	238,0	290,0	1,20

ULTIMATE*line* storage tray

- suitable for hole measurements 10 x 10 mm - hole distance 38 mm
- Enlarges the surface working area
- Working surface: 375 x 308 mm
- When not in use can fold away
- Ideal for documents, laptop, small parts etc.

	Colour code	L mm	B mm	H mm	kg
885.9935	●	420,0	360,0	27,0	3,20
885.9936	●	420,0	360,0	27,0	3,20

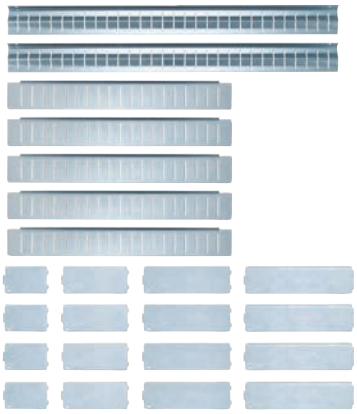
ULTIMATE*line* universal tray

- suitable for hole measurements 10 x 10 mm - hole distance 38 mm
- Internal measurements: 338 x 180 mm
- Ideal for documents

	Colour code	L mm	B mm	H mm	kg
885.9945	●	340,0	75,0	180,9	0,84
885.9946	●	340,0	75,0	180,9	0,84

Drawer divider set

- For use only in drawers with inside dimensions 565 x 395 mm
- options to store various tools
- Suitable for ECO*Line*, BASIC*Line*, MASTER*Line* and ULTIMATE*Line*
- Individually adjustable
- Sheet steel



			kg
875.9940	23 pcs	Drawer divider set	3,00

consists of:

		g
875.9941	Fix panel 565x50x1,5 mm	258
875.9942	Fix panel 393x50x1,5 mm	252
875.9943	Big panel 188x50x1,5 mm	116
875.9944	Big panel 150x50x1,5 mm	90
875.9945	Middle panel 112x50x1,5 mm	69
875.9946	Small panel 79,4 x 50 x 1,5 mm	46

ULTIMATE*line* paper roll holder

- suitable for hole measurements 10 x 10 mm - hole distance 38 mm
- for paper rolls to a max. Ø 350 mm and max. 320 mm wide

	Colour code	L mm	B mm	H mm	kg
885.9940	●	368,0	75,0	52,0	0,60
885.9941	●	368,0	75,0	52,0	0,60

ULTIMATE*line* small part storage tray

- suitable for hole measurements 10 x 10 mm - hole distance 38 mm
- With fixed dividers
- When not in use can fold away
- Ideal for small parts, screws etc.

	Colour code	L mm	B mm	H mm	kg
885.9950	●	368,0	50,0	52,0	0,40
885.9951	●	368,0	50,0	52,0	0,40

ULTIMATE*line* universal can holder

- suitable for hole measurements 10 x 10 mm - hole distance 38 mm
- Without separating strip
- When not in use can fold away
- Ideal for cans, bottles etc.

	Colour code	L mm	B mm	H mm	kg
885.9955	●	368,0	80,8	52,0	0,50
885.9956	●	368,0	80,8	52,0	0,50

ULTIMATE*line* carrier truck

- Mobilizes tool cabinet sets
- Handle foam coated
- Extendable handle
- Two fixed wheels Ø 75 mm
- Two castor wheels Ø 75 mm with brake
- steel sheet construction

	Colour code	L mm	B mm	H mm	kg
885.9930	●	780,0	480,0	170,0	7,60
885.9931	●	780,0	480,0	170,0	7,60

ULTIMATE*line* storage tray insert

- Storage tray for small parts
- Suitable for use in the tool cabinet drawer
- Smooth surface

	Colour code	L mm	B mm	H mm	kg
885.9925	●	570,0	153,0	10,0	0,95
885.9926	●	570,0	153,0	10,0	0,95

ULTIMATE*line* suction pads

- Slide on
- With revolving suction cup with 80 kg of lifting force
- 2 dead centre heads
- Quick-release lever
- With intake mechanics and fast change device
- Suitable for all smooth materials with gas density surfaces

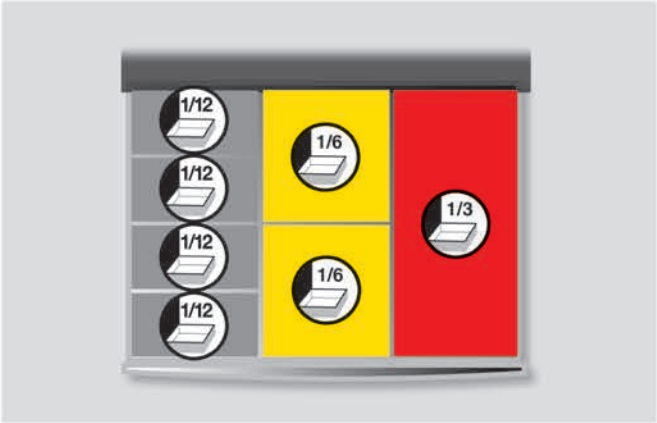
	Colour code	Ø mm	L mm	kg
885.9960	●	120,0	330,0	1,75
885.9961	●	120,0	330,0	1,75

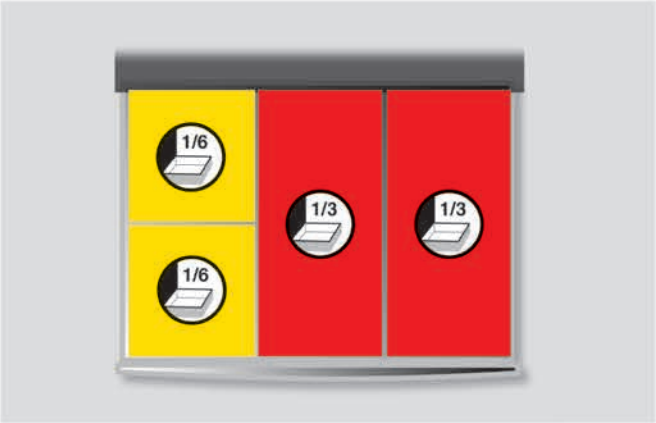
ULTIMATE*line* work tray

- Slide on
- Pivoting
- Ideal for documents, laptop etc.

	Colour code	L mm	B mm	H mm	kg
885.9910	●	190,0	188,0	35,0	1,20
885.9911	●	190,0	188,0	35,0	1,20

The right combination:





SCS - SAFETY CONTROL SYSTEM

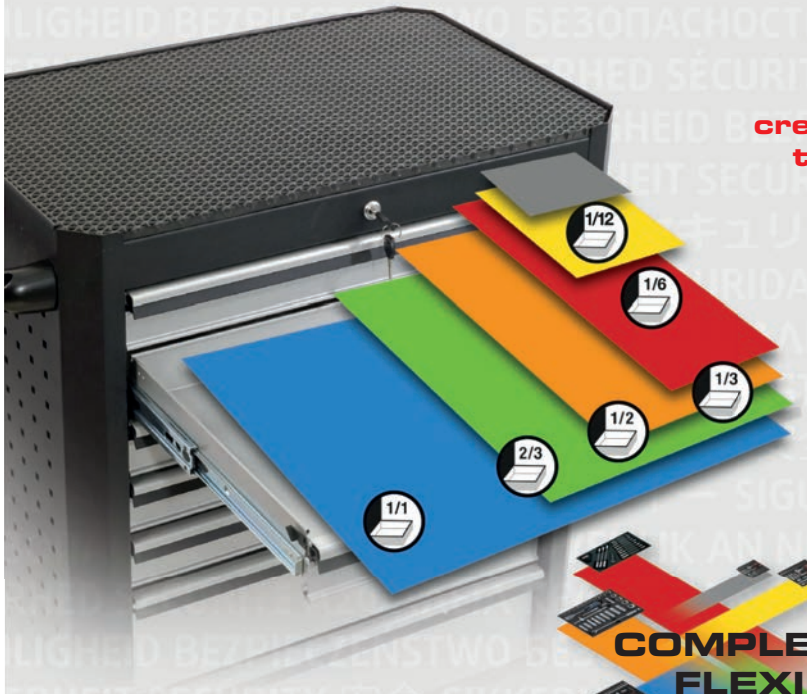
The benefits:

- 3-coloured inserts create a clear structure and protect the quality tools from damage or loss.
- Safety foam inserts with high precision, 3D CNC parts.
- the red signal colour is for completeness checks - a visible red colour means a tool is missing.
- Completely flexible thanks to individual combinations
- no tools confused with each other
- perfect tool organisation
- Tailored inserts in each workshop tool cabinet
- oil resistant
- easy to clean

SAFETY CONTROL SYSTEM

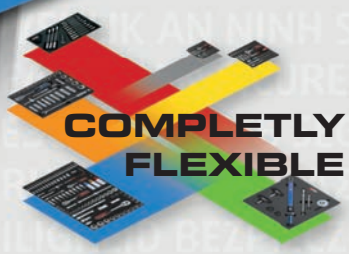
MODULAR BUILDING BLOCK SYSTEM

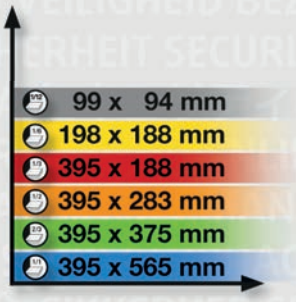
Best flexibility and organisation



create "your own" tool cabinet....

With our unique system inlay configuration you can design your tool cabinet to your exact requirements.
Due to our user friendly foam inlays, you can simply configure each drawer by category (tool type) with a neat and tidy presentation.
It is ideal when you want to work away from your tool cabinet as you can take each inlay individually, meaning you have the right tool for the job.





For each individual tool, the 3D CNC computer technology mills a tailored part.

The tailored parts mean a quick glance is all that's needed to know where the corresponding tool belongs. **This saves a lot of time.**

Three-layer three-colour system: the top layer is black, the middle layer is white and the bottom layer is red.

Thanks to the finely detailed characters, the size of the tool can be seen before removing it.

The foam inserts are oil-resistant, extremely flexible and easy to wash.

TOOLBOX SYSTEM INLAY SETS

TOOLBOX universal system tray set for 2 trays with 175 premium tools

- System insert
- suitable for TOOLBOX
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality foam

			kg
713.0175	175 pcs	TOOLBOX universal system tray set for 2 trays with 175 premium tools	7,90

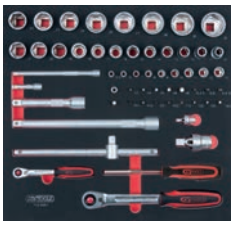
713.0155		TOOLBOX socket wrench and combi-nation wrench set, 154 pcs.
713.4021		TOOLBOX pliers and combination wrench set, 21 pcs.

SCS SYSTEM INSERT SETS

Set of universal system inserts for 3 drawers with 116 premium tools

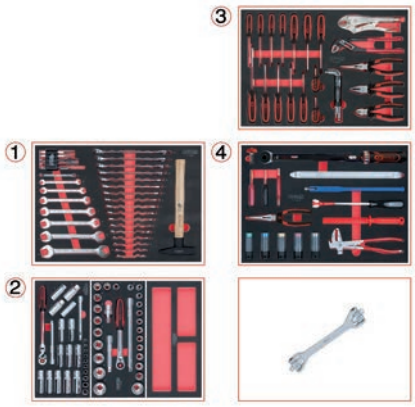
- Ideal set for universal use
- Fits 3 tool cabinet drawers
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

			kg
715.0116	116 pcs	Set of universal system inserts for 3 drawers with 116 premium tools	14,00

711.3031		SCS Spanner and hammer set, 31 pcs, 1/1 system insert
712.0057		SCS 1/4"+1/2" socket set, 57 pcs, 2/3 system insert
713.6004		SCS Pliers set, 4 pcs, 1/3 system insert
712.0011		SCS ERGOTORQUE-plus screwdriver set, 11 pcs, 2/3 system insert
713.8013		SCS Pin driving tools and hammer set, 13 pcs, 1/3 system insert

Set of universal system inserts for 4 drawers with 131 premium tools

- Ideal set for universal use
- Suitable for 4 tool trolley drawers
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

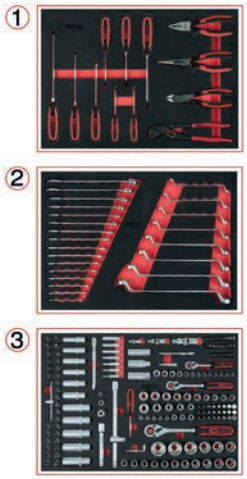


			kg
715.0131	131 pcs	Set of universal system inserts for 4 drawers with 131 premium tools	20,00

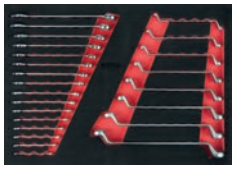
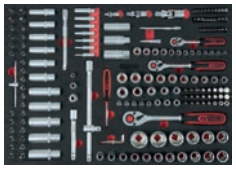
711.3031		SCS Spanner and hammer set, 31 pcs, 1/1 system insert
713.0027		SCS 1/4"-1/2" CHROME+ spark plug service set, 27 pcs, 1/3 system insert
713.0028		SCS Socket set, 28 pcs, 1/3 system insert
713.0000		SCS Uni inlay, empty, 1/3 system insert
711.6027		SCS screwdriver and pliers set, 27 pcs, 1/1 system insert
711.0016		SCS Wheel service inlay, 16 pcs, 1/1 system insert

Set of universal system inserts for 3 drawers with 215 premium tools

- Ideal set for universal use
- Fits 3 tool cabinet drawers
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality two-coloured foam

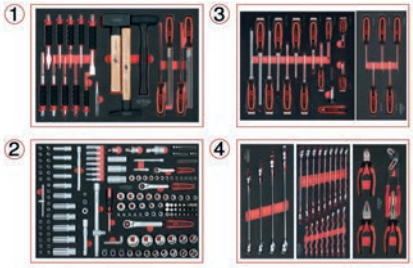


			kg
713.0215	215 pcs	Set of universal system inserts for 3 drawers with 215 premium tools	12,64

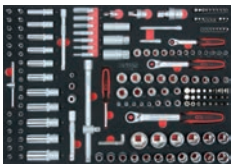
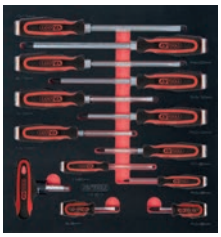
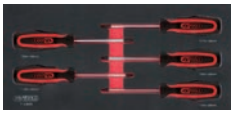
711.0013		Screwdriver and pliers set, 12 pcs, 1/1 system insert
711.0027		Spanner set, 24 pcs, 1/1 system insert
711.0179		1/4"+3/8"+1/2" socket set, 179 pcs, 1/1 system insert

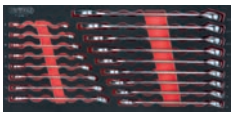
Set of universal system inserts for 4 drawers with 241 premium tools

- Ideal set for universal use
- Suitable for 4 tool trolley drawers
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam



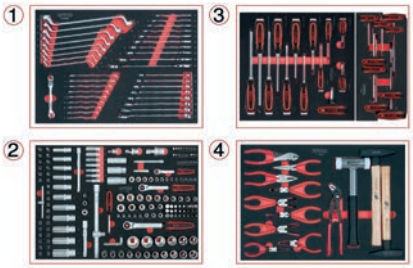
			kg
713.7241	241 pcs	Set of universal system inserts for 4 drawers with 241 premium tools	21,86

711.0018		SCS File, chisel and hammer set, 18 pcs, 1/1 system insert
711.0180		SCS 1/4"+3/8"+1/2" socket set, 180 pcs, 1/1 system insert
712.0013		SCS ERGOTORQUE-max screwdriver set, 13 pcs, 2/3 system inset
713.9005		SCS ERGOTORQUE-plus screwdriver set, Torx tamperproof, 5 pcs, 1/3 system insert

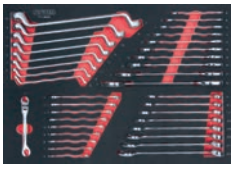
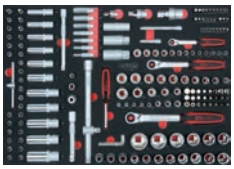
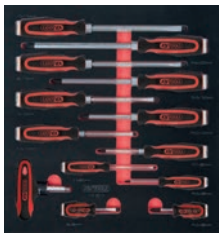
713.0004		SCS Combination spanner set, 4 pcs, 1/3 system insert
713.0017		SCS Combination spanner set, 17 pcs, 1/3 system insert
713.6004		SCS Pliers set, 4 pcs, 1/3 system insert

Set of universal system inserts for 4 drawers with 251 premium tools

- Ideal set for universal use
- Suitable for 4 tool trolley drawers
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

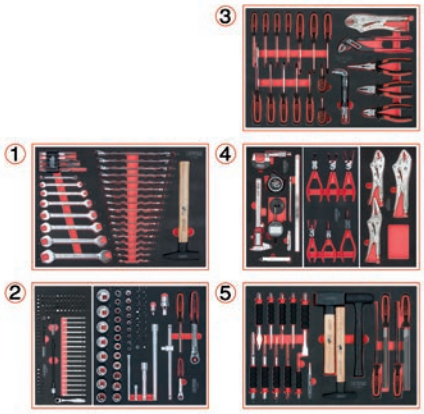


			kg
713.0251	251 pcs	Set of universal system inserts for 4 drawers with 251 premium tools	22,22

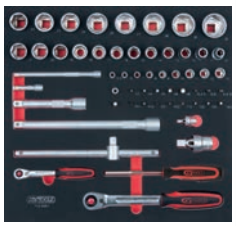
711.0036		SCS wrench set, 36 pcs, 1/1 system insert
711.0180		SCS 1/4"+3/8"+1/2" socket set, 180 pcs, 1/1 system insert
712.0013		SCS ERGOTORQUE-max screwdriver set, 13 pcs, 2/3 system inset
713.2009		SCS Torx T-handle hex key set, 9 pcs, 1/3 system insert
711.9013		SCS Pliers and hammer set, 13 pcs, 1/1 system insert

Set of universal system inserts for 5 drawers with 251 premium tools

- Ideal set for universal use
- Fits 5 tool cabinet drawers
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam



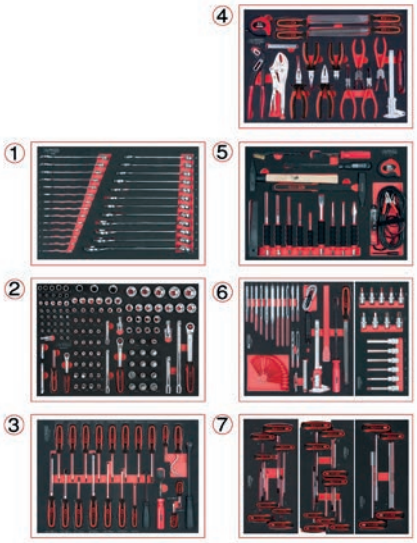
			kg
715.0251	251 pcs	Set of universal system inserts for 5 drawers with 251 premium tools	20,61

711.3031		SCS Spanner and hammer set, 31 pcs, 1/1 system insert
712.0057		SCS 1/4"+1/2" socket set, 57 pcs, 2/3 system insert
713.0101		SCS 1/4" Bit set, 101 pcs, 1/3 system insert
711.6027		SCS screwdriver and pliers set, 27 pcs, 1/1 system insert
713.2008		SCS Measuring tool insert, 8 pcs, 1/3 system insert
713.5006		SCS Circlip pliers set, 6 pcs, 1/3 system insert
713.1003		SCS Grip pliers set, 3 pcs, 1/3 system insert

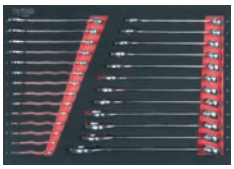
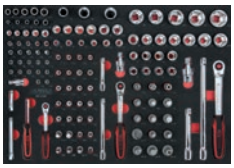
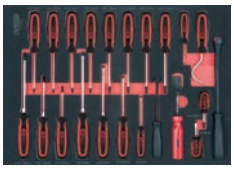
711.0018		SCS File, chisel and hammer set, 18 pcs, 1/1 system insert

Set of universal system inserts for 7 drawers with 269 premium tools

- Ideal set for universal use
- Fits 8 tool cabinet drawers
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam



			kg
713.0269	269 pcs	Set of universal system inserts for 7 drawers with 269 premium tools	30,78

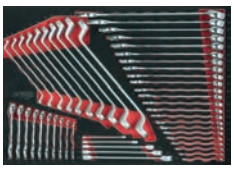
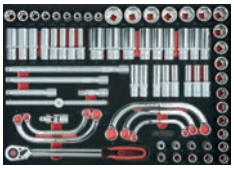
711.0026		SCS Combination spanners set, 26 pcs, 1/1 system insert
781.0128		SCS CHROMEplus 1/4"+3/8"+1/2" Socket set, 128 pcs, 1/1 system insert
711.0022		SCS screwdriver and hook set, 22 pcs, 1/1 system insert
711.5018		SCS Pliers and file set, 18 pcs, 1/1 system insert
711.7017		SCS chisel and hammer set, 17 pcs, 1/1 system insert

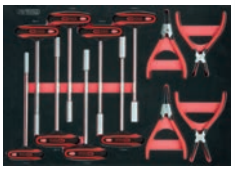
712.0021		SCS chisel and measuring instrument set, 21 pcs, 2/3 system insert
713.0015		SCS 1/2" Bit socket set, 15 pcs, 1/3 system insert
713.0008		SCS ERGOTORQUE+ T-handle hex key set, 9 pcs, 1/3 system insert
713.2009		SCS Torx T-handle hex key set, 9 pcs, 1/3 system insert
713.5004		SCS T-handle hex key set, 4 pcs, 1/3 system insert

Set of universal system inserts for 6 drawers with 291 premium tools

- Ideal set for universal use
- Fits 6 tool cabinet drawers
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

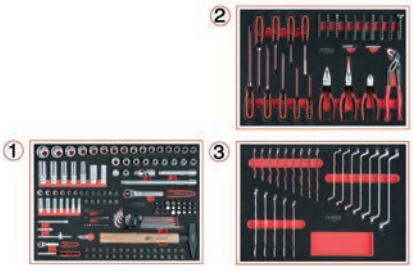
			kg
713.0291	291 pcs	Set of universal system inserts for 6 drawers with 291 premium tools	52,74

711.1048		SCS wrench set, 48 pcs, 1/1 system insert
711.0071		SCS 1/2" socket set, 71 pcs, 1/1 system insert

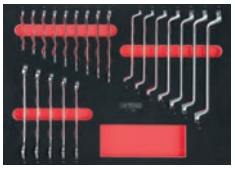
711.0106		Chisels-, Spanners-, Bit socket set, 106-tlg., 1/1 system insert
711.5031		3/4" SCS impact socket wrench set, 31 pcs, 1/1 system inset
711.1023		SCS pliers and screwdriver set, 23 pcs, 1/1 system insert
711.0012		Circlip pliers and t-grip set, 12 pcs., 1/1 system insert

Set of universal system inserts for 3 drawers with 296 premium tools

- Ideal set for universal use
- Fits 3 tool cabinet drawers
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

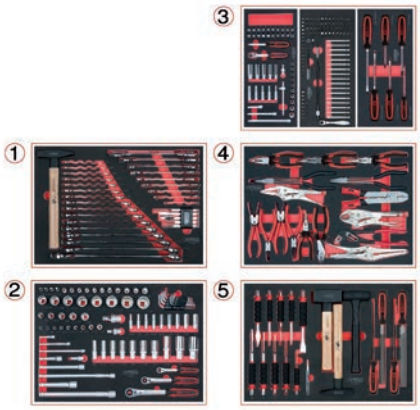


			kg
713.0296	296 pcs	Set of universal system inserts for 3 drawers with 296 premium tools	12,28

711.0163		SCS 1/4"+1/2" socket set, 163 pcs, 1/1 system insert
711.0112		SCS screwdriver and pliers set, 112 pcs. in 1/1 system insert
711.3021		SCS wrench set, 21 pcs. in 1/1 system inset

Set of universal system inserts for 5 drawers with 299 premium tools

- Ideal set for universal use
- Fits 5 tool cabinet drawers
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

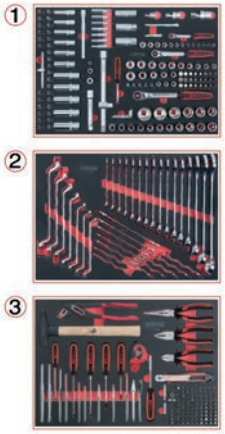


			kg
715.0299	299 pcs	Set of universal system inserts for 5 drawers with 299 premium tools	29,00

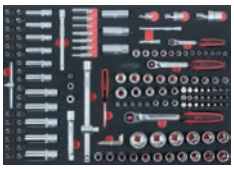
781.4031		SCS Spanner and hammer set, 31 pcs, 1/1 system insert
711.0080		SCS 1/4"+3/8"+1/2" socket set, 80 pcs, 1/1 system inset
713.2047		SCS 1/4" socket set, 47 pcs, 1/3 system insert
713.0101		SCS 1/4" Bit set, 101 pcs, 1/3 system insert
713.0006		SCS ERGOTORQUE-plus screwdriver set, 6 pcs, 1/3 system insert
711.1016		SCS Universal tool set, 16 pcs, 1/1 system insert
711.0018		SCS File, chisel and hammer set, 18 pcs, 1/1 system insert

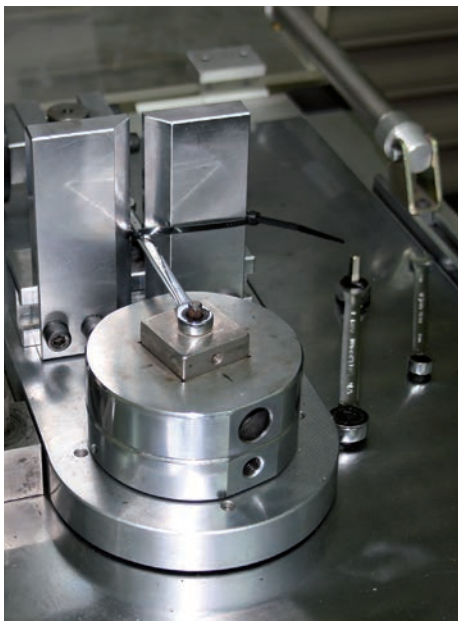
Set of universal system inserts for 3 drawers with 310 premium tools

- Ideal set for universal use
- Fits 3 tool cabinet drawers
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam



			kg
713.0310	310 pcs	Set of universal system inserts for 3 drawers with 310 premium tools	18,69

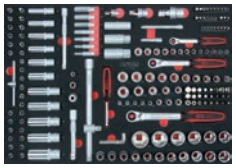
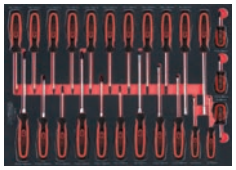
711.0151		SCS 1/4"+3/8"+1/2" socket set, 151 pcs, 1/1 system inset
711.0124		SCS Hammer-, chisel-, plier- and bit-set, 124 pcs, 1/1 system insert
711.0035		SCS wrench set, 35 pcs, 1/1 system insert



Set of universal system inserts for 6 drawers with 310 premium tools

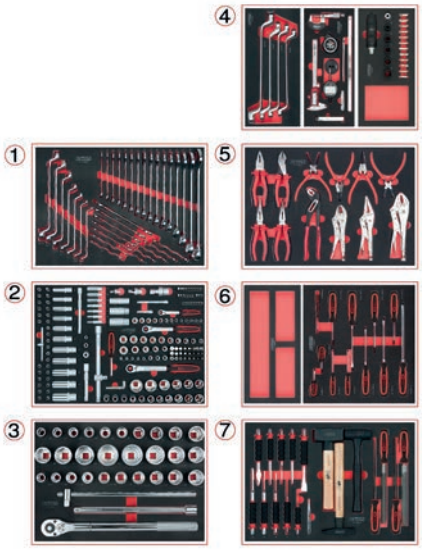
- Ideal set for universal use
- Fits 6 tool cabinet drawers
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

			kg
715.0310	310 pcs	Set of universal system inserts for 6 drawers with 310 premium tools	43,00

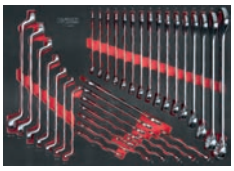
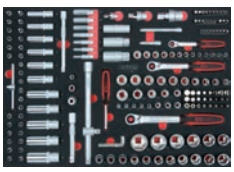
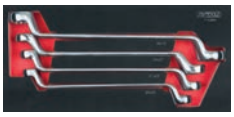
711.0041		SCS wrench set, 41 pcs, 1/1 system insert
711.0180		SCS 1/4"+3/8"+1/2" socket set, 180 pcs, 1/1 system insert
711.1031		SCS 3/4" socket set, 31 pcs, 1/1 system insert
711.1012		SCS Pliers set, 12 pcs, 1/1 system insert
711.0025		SCS ERGOTORQUE-plus screwdriver set, 25 pcs, 1/1 system insert
711.1021		SCS Chisel and hammer set, 21 pcs, 1/1 system insert

Set of universal system inserts for 7 drawers with 316 premium tools

- Ideal set for universal use
- Fits 8 tool cabinet drawers
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam



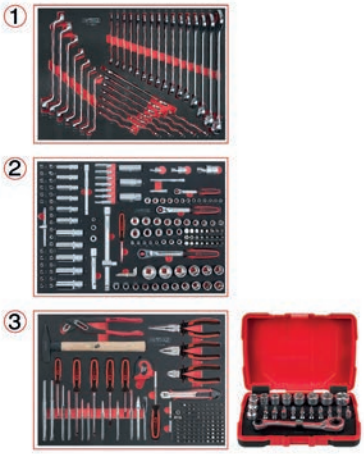
			kg
715.0316	316 pcs	Set of universal system inserts for 7 drawers with 316 premium tools	46,00

711.0035		SCS wrench set, 35 pcs, 1/1 system insert
711.0180		SCS 1/4"+3/8"+1/2" socket set, 180 pcs, 1/1 system insert
711.1031		SCS 3/4" socket set, 31 pcs, 1/1 system insert
713.2004		SCS Ring spanner set, offset, 4 pcs, 1/3 system insert
713.2008		SCS Measuring tool insert, 8 pcs, 1/3 system insert
713.0019		SCS Impact socket wrench and bit set, 19 pcs, 1/3 system insert

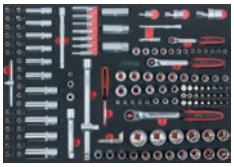
711.1012		SCS Pliers set, 12 pcs, 1/1 system insert
712.0012		SCS ERGOTORQUE-plus screwdriver set, 12 pcs, 2/3 system insert
713.0000		SCS Uni inlay, empty, 1/3 system insert
711.0018		SCS File, chisel and hammer set, 18 pcs, 1/1 system insert

Set of universal system inserts for 3 drawers with 341 premium tools

- Ideal set for universal use
- Fits 3 tool cabinet drawers
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam



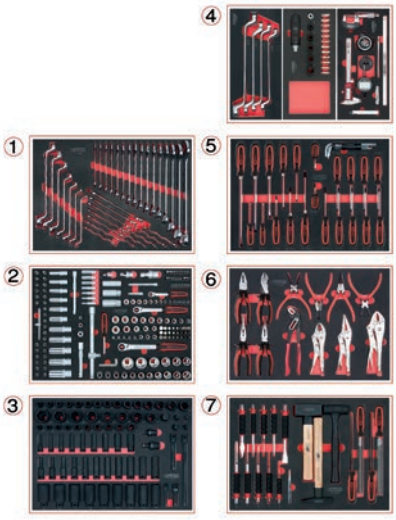
			kg
713.0341	341 pcs	Set of universal system inserts for 3 drawers with 341 premium tools	20,00

711.0035		SCS wrench set, 35 pcs, 1/1 system insert
711.0151		SCS 1/4"+3/8"+1/2" socket set, 151 pcs, 1/1 system inset

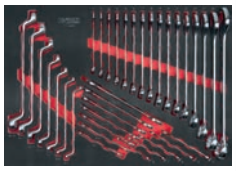
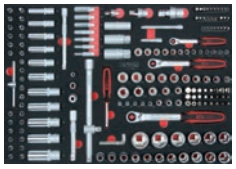
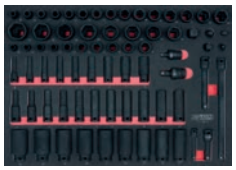
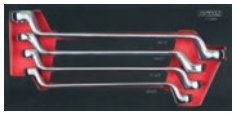
711.0124		SCS Hammer-, chisel-, plier- and bit-set, 124 pcs, 1/1 system insert
918.3050		1/4" + 11 mm Go through socket and bit set, 31 pcs.

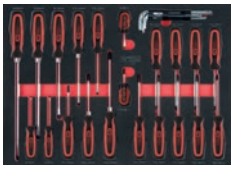
Set of universal system inserts for 7 drawers with 378 premium tools

- Ideal set for universal use
- Fits 8 tool cabinet drawers
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam



			kg
715.0378	378 pcs	Set of universal system inserts for 7 drawers with 378 premium tools	37,00

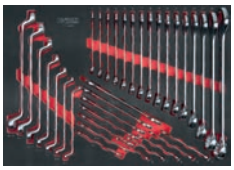
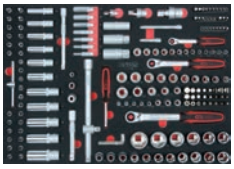
711.0035		SCS wrench set, 35 pcs, 1/1 system insert
711.0180		SCS 1/4"+3/8"+1/2" socket set, 180 pcs, 1/1 system insert
711.0073		3/8"+1/2" SCS Impact socket wrench set, 73 pcs, 1/1 system insert
713.2004		SCS Ring spanner set, offset, 4 pcs, 1/3 system insert

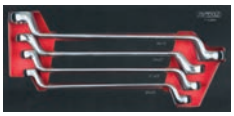
713.0019		SCS Impact socket wrench and bit set, 19 pcs, 1/3 system insert
713.2008		SCS Measuring tool insert, 8 pcs, 1/3 system insert
711.1029		SCS Screwdriver set, 29 pcs, 1/1 system insert
711.1012		SCS Pliers set, 12 pcs, 1/1 system insert
711.0018		SCS File, chisel and hammer set, 18 pcs, 1/1 system insert

Set of universal system inserts for 6 drawers with 404 premium tools

- Ideal set for universal use
- Fits 6 tool cabinet drawers
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

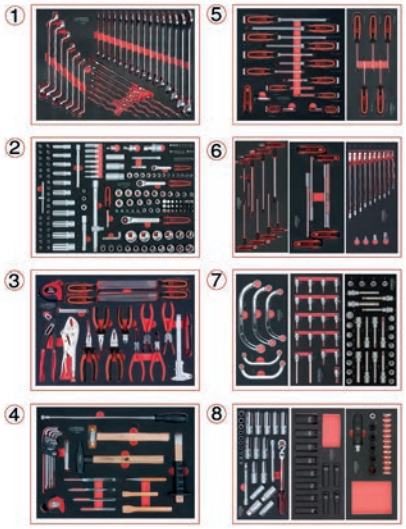
			kg
715.0404	404 pcs	Set of universal system inserts for 6 drawers with 404 premium tools	32,00

711.0035		SCS wrench set, 35 pcs, 1/1 system insert
711.0180		SCS 1/4"+3/8"+1/2" socket set, 180 pcs, 1/1 system insert

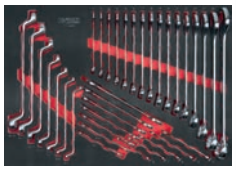
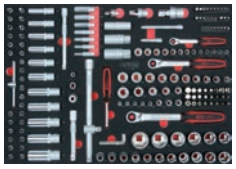
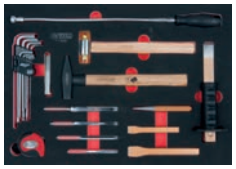
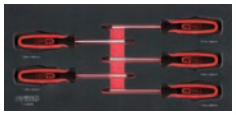
713.2004		SCS Ring spanner set, offset, 4 pcs, 1/3 system insert
713.0101		SCS 1/4" Bit set, 101 pcs, 1/3 system insert
713.0019		SCS Impact socket wrench and bit set, 19 pcs, 1/3 system insert
711.1033		SCS ERGOTORQUE VDE pliers and screw-driver set, 33 pcs, 1/1 system insert
711.0018		SCS File, chisel and hammer set, 18 pcs, 1/1 system insert
713.5006		SCS Circlip pliers set, 6 pcs, 1/3 system insert
713.1003		SCS Grip pliers set, 3 pcs, 1/3 system insert
713.3005		SCS Measuring tool insert, 5 pcs, 1/3 system insert

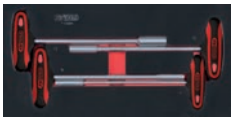
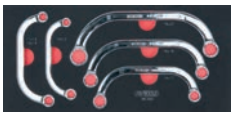
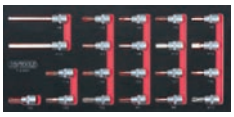
Set of universal system inserts for 8 drawers with 418 premium tools

- Ideal set for universal use
- Fits 8 tool cabinet drawers
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam



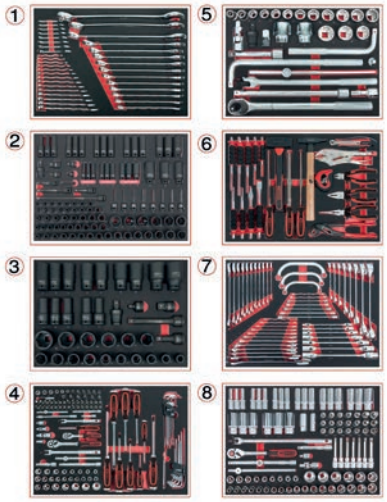
			kg
713.9418	418 pcs	Set of universal system inserts for 8 drawers with 418 premium tools	41,98

711.0035		SCS wrench set, 35 pcs, 1/1 system insert
711.0180		SCS 1/4"+3/8"+1/2" socket set, 180 pcs, 1/1 system insert
711.5018		SCS Pliers and file set, 18 pcs, 1/1 system insert
711.0023		SCS hammer and wrench set, 23 pcs, 1/1 system insert
712.0013		SCS ERGOTORQUE-max screwdriver set, 13 pcs, 2/3 system inset
713.9005		SCS ERGOTORQUE-plus screwdriver set, Torx tamperproof, 5 pcs, 1/3 system insert

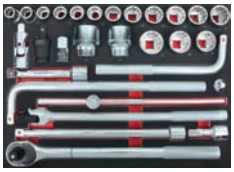
713.3009		SCS Torx T-handle key wrench set, 9 pcs, 1/3 system insert
713.5004		SCS T-handle hex key set, 4 pcs, 1/3 system insert
713.0014		SCS GEARplus ratchet combination spanner set, 14 pcs, 1/3 system insert
783.2005		SCS CHROMEplus halfmoon spanner set, 5 pcs, 1/3 system insert
713.0021		SCS 3/8" Bit socket set, 21 pcs, 1/3 system insert
713.0032		SCS 1/2'' Bit socket set, 32 pcs, 1/3 system insert
713.0027		SCS 1/4"-1/2'' CHROME+ spark plug service set, 27 pcs, 1/3 system insert
713.0012		SCS Impact socket set, 1/2", 12 pcs, 1/3 system insert
713.0019		SCS Impact socket wrench and bit set, 19 pcs, 1/3 system insert

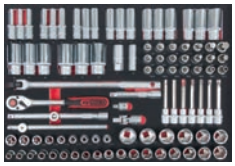
Set of universal system inserts for 8 drawers with 484 premium tools

- Ideal set for universal use
- Fits 8 tool cabinet drawers
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam



			kg
715.0484	484 pcs	Set of universal system inserts for 8 drawers with 484 premium tools	90,54

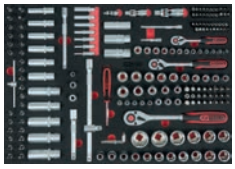
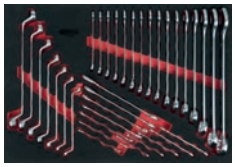
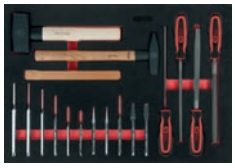
711.1036		SCS wrench set, 36 pcs 1/1 system inset
711.0102		1/4"+3/8"+1/2" SCS impact socket wrench set, 102 pcs, 1/1 system inset
711.1035		3/4" SCS impact socket wrench set, 35 pcs, 1/1 system inset
711.0118		1/4"+3/8" SCS Socket set, 118 pcs 1/1 system inset
711.0029		3/4" SCS Socket set, 29 pcs 1/1 system inset
711.2021		SCS File, chisel and pliers set, 21 pcs, 1/1 system inset

711.0048		SCS wrench set, 48 pcs 1/1 system inset
711.0095		1/2" SCS Socket set, 95 pcs 1/1 system inset

Set of universal system inserts for 4 drawers with 515 premium tools

- Ideal set for universal use
- Suitable for 4 tool trolley drawers
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality two-coloured foam

			kg
713.0515	515 pcs	Set of universal system inserts for 4 drawers with 515 premium tools	21,79

711.0195		1/4"+3/8"+1/2" socket set, 195 pcs, 1/1 system insert
711.3035		Wrench set, 35 pcs, 1/1 system insert
711.1059		Pliers and screwdriver set, 59 pcs, 1/1 system insert
711.1018		File, chisel and hammer set, 18 pcs, 1/1 system insert
911.2008		1/4" Bit set, 208 pcs

TOOLBOX MODULE INSERTS

TOOLBOX Socket and combination wrench set

- System insert
- suitable for TOOLBOX
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality foam

		L mm	B mm	H mm	kg
713.0155	154 pcs	272,0	620,0	35,0	5,00

13 x	1/4“: 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 -11 - 12 - 13 mm
17 x	1/2“: 10-11-12-13-14-15-16-17-18-19-20-21-22-24-27-30-32 mm
1 x	50 mm
2 x	30 - 50 mm
1 x	1/4“
1 x	1/4“
9 x	3 - 4 - 4,5 - 5 - 5,5 - 6 - 6,5 - 7 - 8 mm
8 x	PH0 - PH1 - 5 x PH2 - PH3
8 x	PZ0 - PZ1 - 5 x PZ2 - PZ3
9 x	1,5 - 2 - 2,5 - 3 - 4 - 5 - 5,5 - 6 - 8 mm
10 x	1/16“ - 5/64“ - 3/32“ - 7/64“ - 1/8“ - 9/64“ - 5/32“ - 3/16“ - 7/32“ - 1/4“
6 x	2 - 2,5 - 3 - 4 - 5 - 6 mm
6 x	5/64“ - 3/32“ - 7/64“ - 1/8“ - 9/64“ - 5/32“
9 x	T8 - T10 - T15 - T20 - T25 - T27 - T30 - T40 - T45
9 x	TB8 - TB10 - TB15 - TB20 - TB25 - TB27 - TB30 - TB35 - TB40
3 x	M5 - M6 - M8
3 x	#1 - #2 - #3
4 x	#1 - #2 - #3 - #4
4 x	4 - 6 - 8 - 10 mm
3 x	6 - 8 - 10 mm
4 x	#0 - #1 - #2 - #3
2 x	1/4“: 50 - 100 mm
2 x	1/2“: 125 - 250 mm
1 x	3/8“Fx1/2“M
2 x	1/4“ + 1/2“
2 x	1/4“ + 1/2“
14 x	6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm
1 x	3 m

TOOLBOX pliers and screwdriver set

- System insert
- suitable for TOOLBOX
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality foam

		L mm	B mm	H mm	kg
713.4021	21 pcs	272,0	620,0	35,0	2,90

1 x	500 g
1 x	2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm
5 x	3 - 4 - 5 - 6,5 - 8 mm
3 x	PH1 - PH2 - PH3
1 x	1/4“
1 x	160 mm
1 x	180 mm
1 x	240 mm

1/3 SCS - SPANNER - METRIC

SCS Combination spanner set

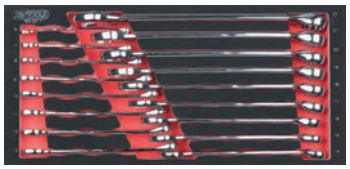
- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

		L mm	B mm	H mm	kg
713.0017	17 pcs	390,0	188,0	35,0	1,80

17 x	6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 16 - 17 - 18 - 19 - 20 - 21 - 22 mm

SCS CHROME*plus*® combination spanner set

- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam



		L mm	B mm	H mm	kg
783.0017	17 pcs	390,0	188,0	35,0	2,40

17 x	6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 16 - 17 - 18 - 19 - 20 - 21 - 22 mm

SCS Combination spanner set

- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

		L mm	B mm	H mm	kg
713.0004	4 pcs	390,0	188,0	35,0	1,65

4 x	24 - 27 - 30 - 32 mm

SCS CHROME*plus*® combination spanner set

- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

		L mm	B mm	H mm	kg
783.0004	4 pcs	390,0	188,0	35,0	1,78

4 x	24 - 27 - 30 - 32 mm

SCS GEAR*plus*® ratchet combination spanner set, including adaptors

- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

		L mm	B mm	H mm	kg
713.0014	14 pcs	390,0	188,0	35,0	1,50

10 x	8 - 10 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm
1 x	1/4“
3 x	1/4“ - 3/8“ - 1/2“

SCS GEAR*plus*® reversing ratchet combination spanner set, including adaptors

- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

		L mm	B mm	H mm	kg
713.1014	14 pcs	390,0	188,0	35,0	1,56
10 x		8 - 10 - 12 - 13 - 14 - 15 - 16 - 17 18 - 19			
1 x		1/4“			
3 x		1/4“ - 3/8“ - 1/2“			

SCS Double open ended spanner set

- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

		L mm	B mm	H mm	kg
713.0011	11 pcs	390,0	188,0	35,0	1,75
11 x		6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17 - 18x19 - 20x22 - 21x23 - 24x27 - 30x32 mm			

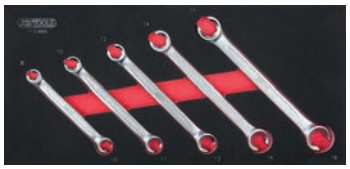
SCS CHROME*plus*® double open ended spanner set

- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

		L mm	B mm	H mm	kg
783.0011	11 pcs	390,0	188,0	35,0	1,75
11 x		6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x18 - 17x19 - 20x22 - 21x23 - 24x27 - 30x32			

SCS Open double ring spanner set, offset

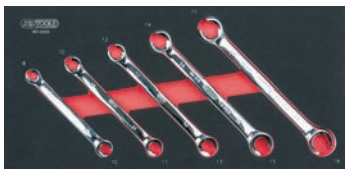
- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam



		L mm	B mm	H mm	kg
713.0005	5 pcs	390,0	188,0	35,0	0,56
5 x		8x10 - 10x11 - 12x13 - 14x15 - 17x19 mm			

SCS CHROME*plus*® Open double ring spanner set, offset

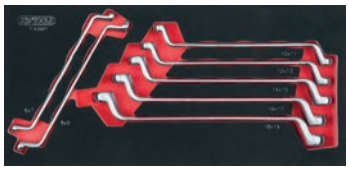
- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam



		L mm	B mm	H mm	kg
783.0005	5 pcs	390,0	188,0	35,0	0,56
5 x		8x10 - 10x11 - 12x13 - 14x15 - 17x19 mm			

SCS double ring spanner set, 75° offset

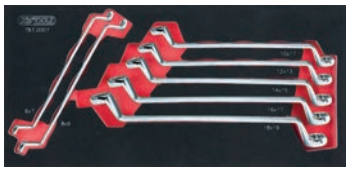
- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam



		L mm	B mm	H mm	kg
713.0007	7 pcs	390,0	188,0	35,0	1,00
7 x		6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17 18x19 mm			

CHROME*plus*® double ring spanner set, 75° offset

- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam



		L mm	B mm	H mm	kg
783.0007	7 pcs	390,0	188,0	35,0	1,00
7 x		6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17 18x19 mm			

SCS Double ring spanner set, 75° offset

- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

		L mm	B mm	H mm	kg
713.2004	4 pcs	390,0	188,0	35,0	1,74
4 x		20 x 22 - 21 x 23 - 24 x 27 - 30 x 32 mm			

SCS CHROME*plus*® double ring spanner set, 75° offset

- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

		L mm	B mm	H mm	kg
783.2004	4 pcs	390,0	188,0	35,0	1,74
4 x		20 x 22 - 21 x 23 - 24 x 27 - 30 x 32 mm			

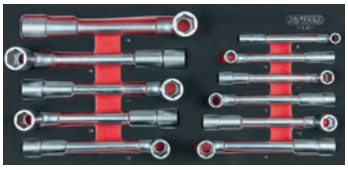
SCS Double swivel wrench set

- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

		L mm	B mm	H mm	g
713.1005	5 pcs	390,0	188,0	35,0	920
5 x		8 x 9 - 10 x 11 - 12 x 13 - 14 x 15 16 x 17 mm			

SCS Pipe head box wrench set

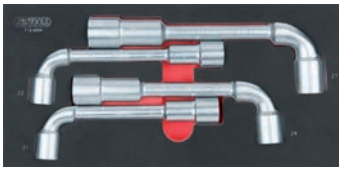
- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam



		L mm	B mm	H mm	kg
713.2011	11 pcs	390,0	188,0	35,0	2,70
11 x		8 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 18 - 19 mm			

SCS pipe head box wrench set

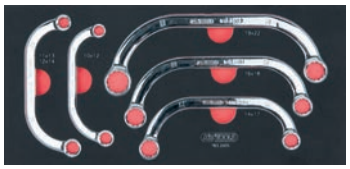
- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam



		L mm	B mm	H mm	kg
713.4004	4 pcs	390,0	188,0	35,0	3,00
4 x		21 - 22 - 24 - 27 mm			

SCS CHROME*plus*® half moon- and manifold spanner set

- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

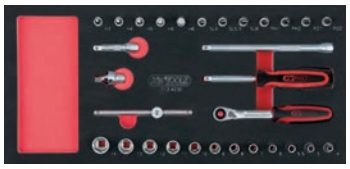


		L mm	B mm	H mm	kg
783.2005	5 pcs	390,0	188,0	35,0	0,90
5 x		10 x 12 - 11 x 13 - 14 x 17 - 16 x 18 19 x 22 mm			

1/3 SCS - SOCKET WRENCH 1/4" - METRIC

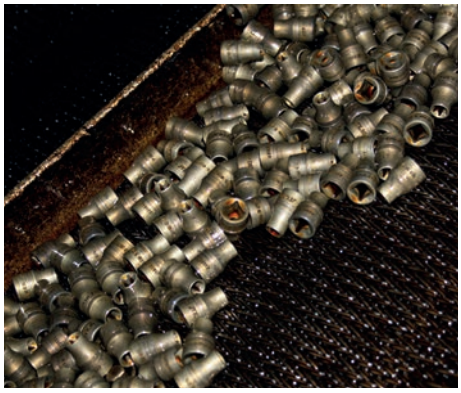
SCS Socket set

- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam



1/4"

		L mm	B mm	H mm	kg
713.4030	30 pcs	390,0	188,0	35,0	0,90
12 x		4 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 13 - 14 mm			
3 x		4 - 5,5 - 8 mm			
2 x		PH1 - PH2			
2 x		PZ1 - PZ2			
5 x		3 - 4 - 5 - 6 - 8 mm			
2 x		50 - 150 mm			
1 x		150 mm			
1 x		1/4"			
1 x		110 mm			
1 x		140 mm			



SCS CHROME*plus*® socket set

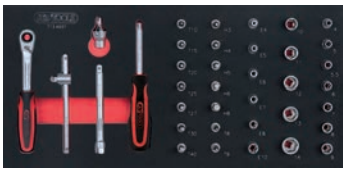
- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

1/4"

		L mm	B mm	H mm	kg
783.4030	30 pcs	390,0	188,0	35,0	0,95
12 x		4 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 13 - 14 mm			
3 x		4 - 5,5 - 8 mm			
2 x		PH1 - PH2			
2 x		PZ1 - PZ2			
5 x		3 - 4 - 5 - 6 - 8 mm			
2 x		50 - 150 mm			
1 x		150 mm			
1 x		1/4"			
1 x		110 mm			
1 x		140 mm			

SCS Socket set

- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam



1/4"

		L mm	B mm	H mm	kg
713.4037	37 pcs	390,0	188,0	35,0	0,95
12 x		4 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 13 - 14 mm			
6 x		E4 - E5 - E6 - E7 - E8 - E10			
5 x		3 - 4 - 5 - 6 - 8 mm			
9 x		T8 - T9 - T10 - T15 - T20 - T25 - T27 T30 - T40			
1 x		100 mm			
1 x		150 mm			
1 x		1/4"			
1 x		110 mm			
1 x		140 mm			

SCS CHROME*plus*® socket set

- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

1/4"

		L mm	B mm	H mm	kg
783.4037	37 pcs	390,0	188,0	35,0	1,05
12 x		4 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 13 - 14 mm			
6 x		E4 - E5 - E6 - E7 - E8 - E10			
5 x		3 - 4 - 5 - 6 - 8 mm			
9 x		T8 - T9 - T10 - T15 - T20 - T25 - T27 T30 - T40			
1 x		100 mm			
1 x		150 mm			
1 x		1/4“			
1 x		110 mm			
1 x		140 mm			

SCS Socket set

- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

1/4"

		L mm	B mm	H mm	kg
713.0040	40 pcs	390,0	188,0	35,0	0,94
10 x		1/4“: 5,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 13 - 14 mm			
3 x		1/4“: 8 - 10 - 13 mm			
3 x		1/4“: 4,5 - 6,5 - 8 mm			
3 x		1/4“: PH1 - PH2 - PH3			
3 x		1/4“: PZ1 - PZ2 - PZ3			
5 x		1/4“: 3 - 4 - 5 - 6 - 7 mm			
7 x		1/4“: TB10 - TB15 - TB20 TB25 TB27 - TB30 - TB40			
2 x		1/4“: 50 - 150 mm			
1 x		1/4“			
1 x		1/4“			
1 x		1/4“			
1 x		1/4“			

SCS CHROME*plus*® socket set

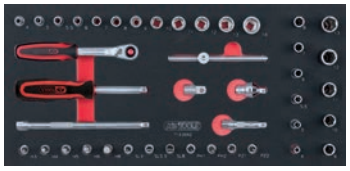
- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

1/4"

		L mm	B mm	H mm	kg
783.0040	40 pcs	390,0	188,0	35,0	0,98
10 x		1/4“: 5,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 13 - 14 mm			
3 x		1/4“: 8 - 10 - 13 mm			
3 x		1/4“: 4,5 - 6,5 - 8 mm			
3 x		1/4“: PH1 - PH2 - PH3			
3 x		1/4“: PZ1 - PZ2 - PZ3			
5 x		1/4“: 3 - 4 - 5 - 6 - 7 mm			
7 x		1/4“: TB10 - TB15 - TB20 TB25 TB27 - TB30 - TB40			
2 x		1/4“: 50 - 150 mm			
1 x		1/4“			
1 x		1/4“			
1 x		1/4“			
1 x		1/4“			

SCS Socket set

- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam



1/4"

		L mm	B mm	H mm	kg
713.0042	42 pcs	390,0	188,0	35,0	1,30
12 x		4 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 13 - 14 mm			
11 x		4 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 13 mm			
3 x		4 - 4,5 - 8 mm			
5 x		3 - 4 - 5 - 6 - 8 mm			
2 x		PH1 - PH2			
2 x		PZ1 - PZ2			
1 x		1/4“Fx3/8“M			
2 x		50 - 100 mm			
1 x		150 mm			
1 x		1/4“			
1 x		110 mm			
1 x		140 mm			

SCS CHROME*plus*® socket set

- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

1/4"

		L mm	B mm	H mm	kg
783.0042	42 pcs	390,0	188,0	35,0	1,30
12 x		4 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 13 - 14 mm			
11 x		4 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 13 mm			
3 x		4 - 5 - 8 mm			
5 x		3 - 4 - 5 - 6 - 8 mm			
1 x		PH2			
3 x		PZ1 - PZ2 - PZ4			
1 x		1/4“Fx3/8“M			
2 x		50 - 150 mm			
1 x		150 mm			
1 x		1/4“			
1 x		110 mm			
1 x		140 mm			

SCS Socket set

- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

1/4"

		L mm	B mm	H mm	kg
713.0045	45 pcs	390,0	188,0	35,0	1,01
12 x		1/4“: 4 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 12 - 13 - 14 mm			
7 x		1/4“: E4 - E5 - E6 - E7 - E8 - E10 E11			
3 x		1/4“: 4 - 5,5 - 8 mm			
2 x		1/4“: PH1 - PH2			
2 x		1/4“: PZ1 - PZ2			
5 x		1/4“: 3 - 4 - 5 - 6 - 8 mm			
9 x		1/4“: T8 - T9 - T10 - T15 - T20 - T25 T27 - T30 - T40			
2 x		1/4“: 50 - 150 mm			
1 x		1/4“			
1 x		1/4“			
1 x		1/4“			

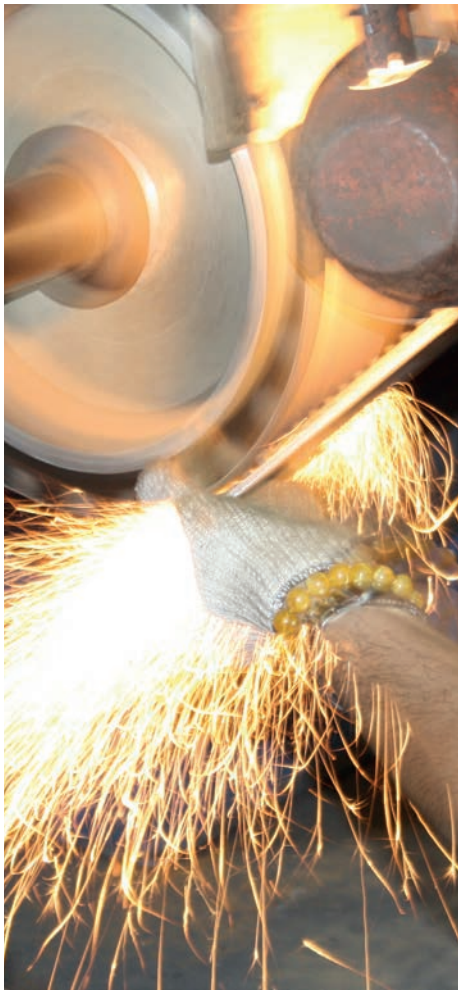
SCS CHROME*plus*® socket set

- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

1/4"

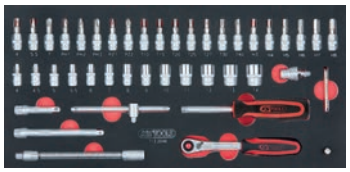
		L mm	B mm	H mm	kg
783.0045	45 pcs	390,0	188,0	35,0	1,18

12 x	1/4": 4 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 12 - 13 - 14 mm
7 x	1/4": E4 - E5 - E6 - E7 - E8 - E10 E11
3 x	1/4": 4 - 5,5 - 8 mm
2 x	1/4": PH1 - PH2
2 x	1/4": PZ1 - PZ2
5 x	1/4": 3 - 4 - 5 - 6 - 8 mm
9 x	1/4": T8 - T9 - T10 - T15 - T20 - T25 T27 - T30 - T40
2 x	1/4": 50 - 150 mm
1 x	1/4"
1 x	1/4"
1 x	1/4"



SCS Socket set

- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam



1/4"

		L mm	B mm	H mm	kg
713.2046	46 pcs	390,0	188,0	35,0	1,10

13 x	4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 12 - 13 - 14 mm
3 x	4 - 5,5 - 7 mm
3 x	PH1 - PH2 - PH3
2 x	PZ1 - PZ2
6 x	3 - 4 - 5 - 6 - 7 - 8 mm
7 x	T10 - T15 - T20 - T25 - T27 - T30 T40
2 x	50 - 100 mm
1 x	150 mm
1 x	1/4"
1 x	1/4"
1 x	1/4"
4 x	1 - 1,5 - 2 - 2,5 mm
1 x	1/4" x 1/4"
1 x	1/4"

SCS CHROME*plus*® socket set

- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

1/4"

		L mm	B mm	H mm	kg
783.2046	46 pcs	390,0	188,0	35,0	1,13

13 x	4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 12 - 13 - 14 mm
3 x	4 - 5,5 - 7 mm
3 x	PH1 - PH2 - PH3
2 x	PZ1 - PZ2
6 x	3 - 4 - 5 - 6 - 7 - 8 mm
7 x	T10 - T15 - T20 - T25 - T27 - T30 T40
2 x	50 - 100 mm
1 x	150 mm
1 x	1/4"
1 x	1/4"
1 x	1/4"
4 x	1 - 1,5 - 2 - 2,5 mm
1 x	1/4" x 1/4"
1 x	1/4"

SCS Universal bit set

- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

1/4"

		L mm	B mm	H mm	kg
713.0101	101 pcs	390,0	188,0	35,0	1,30

1 x	1/4"
1 x	100 mm
1 x	60 mm
1 x	190 mm
1 x	30 mm
1 x	1/4"
3 x	75 mm x (4 - 5 - 6 mm)
3 x	75 mm x (TB15 - TB20 - TB30)
4 x	75 mm x (#1 - #2 - #3 - #4)
3 x	75 mm x (6 - 8 - 10 mm)
4 x	75 mm x (4 - 6 - 8 - 10 mm)
9 x	25 mm x (3 - 4 - 4,5 - 5 - 5,5 - 6 - 6,5 - 7 - 8 mm)
9 x	25 mm x (1,5 - 2 - 2,5 - 3 - 4 - 5 - 5,5 - 6 - 8 mm)
12 x	25 mm x (2 - 2,5 - 3 - 4 - 5 - 6 mm - 5/32" - 9/64" - 1/8" - 7/64" - 3/32" 5/64")
4 x	25 mm x (#1 - #2 - #3 - #4)
4 x	25 mm x (#0 - #1 - #2 - #3)
4 x	25 mm x (4 - 6 - 8 - 10 mm)
9 x	25 mm x (T8 - T10 - T15 - T20 - T25 - T27 - T30 - T40 - T45)
3 x	25 mm x (T8 - T10 - T15 - T20 - T25 - T27 - T30 - T35 - T40)
9 x	25 mm x (6 - 8 - 10 mm)
3 x	25 mm x (M5 - M6 - M8)
3 x	25 mm x (#1 - #2 - #3)
5 x	25 mm x (PH0 - PH1 - 2 x PH2 - PH3)
5 x	25 mm x (PZ0 - PZ1 - 2 x PZ2 - PZ3)

1/3 SCS - SOCKET WRENCH 1/4" - IMPERIAL

SCS Socket set

- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

1/4"

		L mm	B mm	H mm	kg
713.2047	47 pcs	390,0	188,0	35,0	1,26
10 x		5/32" - 3/16" - 7/32" - 1/4" - 9/32" 5/16" - 11/32" - 3/8" - 7/16" - 1/2"			
10 x		5/32" - 3/16" - 7/32" - 1/4" - 9/32" 5/16" - 11/32" - 3/8" - 7/16" - 1/2"			
3 x		4 - 5 - 7 mm			
2 x		PH1 - PH2			
5 x		1/8" - 5/32" - 3/16" - 7/32" - 1/4"			
6 x		T10 - T15 - T20 - T25 - T30 - T40			
4 x		M4 - M5 - M6 - M8			
2 x		50 - 100 mm			
1 x		150 mm			
1 x		1/4"			
1 x		1/4"			
1 x		110 mm			
1 x		1/4"			

SCS CHROME*plus*® socket set

- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

1/4"

		L mm	B mm	H mm	kg
783.2047	47 pcs	390,0	188,0	35,0	1,26
10 x		5/32" - 3/16" - 7/32" - 1/4" - 9/32" 5/16" - 11/32" - 3/8" - 7/16" - 1/2"			
10 x		5/32" - 3/16" - 7/32" - 1/4" - 9/32" 5/16" - 11/32" - 3/8" - 7/16" - 1/2"			
3 x		4 - 5 - 7 mm			
2 x		PH1 - PH2			
5 x		1/8" - 5/32" - 3/16" - 7/32" - 1/4"			
6 x		T10 - T15 - T20 - T25 - T30 - T40			
4 x		M4 - M5 - M6 - M8			
2 x		50 - 100 mm			
1 x		150 mm			
1 x		1/4"			
1 x		1/4"			
1 x		110 mm			
1 x		1/4"			

1/3 SCS - SOCKET WRENCH 3/8" - METRIC

SCS Socket set

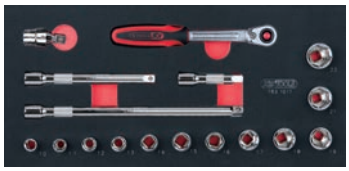
- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

3/8"

		L mm	B mm	H mm	kg
713.1017	17 pcs	390,0	188,0	35,0	1,38
12 x		10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 21 - 22 mm			
3 x		75 - 150 - 250 mm			
1 x		3/8"			
1 x		190 mm			

SCS CHROME*plus*® socket set

- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam



3/8"

		L mm	B mm	H mm	kg
783.1017	17 pcs	390,0	188,0	35,0	1,60
12 x		10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 21 - 22 mm			
3 x		75 - 150 - 250 mm			
1 x		3/8"			
1 x		190 mm			

SCS Socket set

- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

3/8"

		L mm	B mm	H mm	kg
713.2024	24 pcs	390,0	188,0	35,0	1,54
14 x		6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 16 - 17 - 18 - 19 mm			
5 x		4 - 5 - 6 - 8 - 10 mm			
1 x		3/8"			
1 x		160 mm			
2 x		150 - 250 mm			
1 x		3/8"			

SCS CHROME*plus*® Socket set

- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

3/8"

		L mm	B mm	H mm	kg
783.2024	24 pcs	390,0	188,0	35,0	1,62
14 x		6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 16 - 17 - 18 - 19 mm			
5 x		4 - 5 - 6 - 8 - 10 mm			
1 x		3/8"			
1 x		160 mm			
2 x		150 - 250 mm			
1 x		3/8"			

SCS Socket set

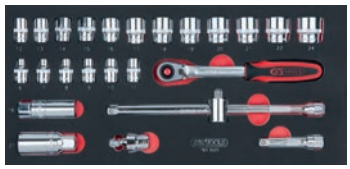
- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

3/8"

		L mm	B mm	H mm	kg
713.3025	25 pcs	390,0	188,0	35,0	2,06
18 x		6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 16 - 17 - 18 - 19 - 20 - 21 - 22 - 24 mm			
2 x		16 - 21 mm			
2 x		75 - 250 mm			
1 x		3/8“			
1 x		3/8“			
1 x		1/2“ x 3/8“			

SCS CHROME*plus*® socket set

- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam



3/8"

		L mm	B mm	H mm	kg
783.3025	25 pcs	390,0	188,0	35,0	2,06
18 x		6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 16 - 17 - 18 - 19 - 20 - 21 - 22 - 24 mm			
2 x		16 - 21 mm			
2 x		75 - 250 mm			
1 x		3/8“			
1 x		3/8“			
1 x		1/2“ x 3/8“			

SCS Socket set

- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

3/8"

		L mm	B mm	H mm	kg
713.0036	36 pcs	390,0	188,0	35,0	1,67
13 x		3/8“: 8 - 10 - 11 - 12 - 13 - 14 - 15 - 16 17 - 18 - 19 - 21 - 22 mm			
6 x		3/8“: E6 - E7 - E8 - E10 - E12 - E14			
2 x		1/4“: PH1 - PH2			
4 x		1/4“: 5 - 6 - 7 - 8 mm			
6 x		1/4“: T10 - T15 - T20 - T25 - T30 - T40			
2 x		3/8“: 150 - 250 mm			
1 x		3/8“			
1 x		3/8“			
1 x		3/8“			

SCS CHROME*plus*® socket set

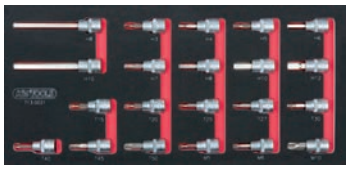
- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

3/8"

		L mm	B mm	H mm	kg
783.0036	36 pcs	390,0	188,0	35,0	1,84
13 x		3/8“: 8 - 10 - 11 - 12 - 13 - 14 - 15 - 16 17 - 18 - 19 - 21 - 22 mm			
6 x		3/8“: E6 - E7 - E8 - E10 - E12 - E14			
2 x		1/4“: PH1 - PH2			
4 x		1/4“: 5 - 6 - 7 - 8 mm			
6 x		1/4“: T10 - T15 - T20 - T25 - T30 - T40			
2 x		3/8“: 150 - 250 mm			
1 x		3/8“			
1 x		3/8“			
1 x		3/8“			

SCS Bit socket set

- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

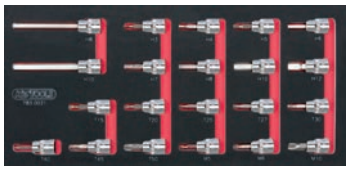


3/8"

		L mm	B mm	H mm	kg
713.0021	21 pcs	390,0	188,0	35,0	1,06
8 x		3 - 4 - 5 - 6 - 7 - 8 - 10 - 12 mm			
2 x		8 - 10 mm			
8 x		T15 - T20 - T25 - T27 - T30 - T40 - T45 - T50			
3 x		M5 - M6 - M10			

SCS CHROME*plus*® bit socket set

- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam



3/8"

		L mm	B mm	H mm	kg
783.0021	21 pcs	390,0	188,0	35,0	1,03
8 x		3 - 4 - 5 - 6 - 7 - 8 - 10 - 12 mm			
2 x		8 - 10 mm			
8 x		T15 - T20 - T25 - T27 - T30 - T40 - T45 - T50			
3 x		M5 - M6 - M10			

SCS Bit socket set

- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

3/8"

		L mm	B mm	H mm	kg
713.0039	39 pcs	390,0	188,0	35,0	1,83
8 x		3/8“: E5 - E6 - E7 - E8 - E10 - E11 E12 - E14			
5 x		3/8“: 5,5 - 6,5 - 8 - 10 - 12 mm			
3 x		3/8“: PH1 - PH2 - PH3			
3 x		3/8“: PZ1 - PZ2 - PZ3			
7 x		3/8“: T20 - T25 - T27 - T30 - T40 T45 - T50			
6 x		3/8“: 4 - 5 - 6 - 7 - 8 - 10 mm			
7 x		3/8“: T20 - T25 - T27 - T30 - T40 T45 - T50			

SCS CHROME*plus*® bit socket set

- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

3/8"

		L mm	B mm	H mm	kg
783.0039	39 pcs	390,0	188,0	35,0	1,84
8 x		3/8": E5 - E6 - E7 - E8 - E10 - E11 E12 - E14			
5 x		3/8": 5,5 - 6,5 - 8 - 10 - 12 mm			
3 x		3/8": PH1 - PH2 - PH3			
3 x		3/8": PZ1 - PZ2 - PZ3			
7 x		3/8": T20 - T25 - T27 - T30 - T40 T45 - T50			
6 x		3/8": 4 - 5 - 6 - 7 - 8 - 10 mm			
7 x		3/8": T20 - T25 - T27 - T30 - T40 T45 - T50			

1/3 SCS - SOCKET WRENCH 3/8" - IMPERIAL

SCS Socket set

- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

3/8"

		L mm	B mm	H mm	kg
713.4046	46 pcs	390,0	188,0	35,0	2,74
11 x		1/4" - 5/16" - 3/8" - 7/16" - 1/2" - 9/16" 5/8" - 11/16" - 3/4" - 13/16" - 7/8"			
6 x		3/8" - 7/16" - 1/2" - 9/16" - 11/16" - 3/4"			
2 x		5/8" - 13/16"			
7 x		1/8" - 5/32" - 3/16" - 7/32" - 1/4" - 5/16" - 3/8"			
10 x		T10 - T15 - T20 - T25 - T27 - T30 T40 - T45 - T50 - T55			
5 x		M4 - M5 - M6 - M8 - M10			
2 x		75 - 150 mm			
1 x		3/8"			
1 x		160 mm			
1 x		3/8"			

SCS CHROME*plus*® socket set

- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Made from high quality foam
- Mirror polished

3/8"

		L mm	B mm	H mm	kg
783.4046	46 pcs	390,0	188,0	35,0	3,00
11 x		1/4" - 5/16" - 3/8" - 7/16" - 1/2" - 9/16" 5/8" - 11/16" - 3/4" - 13/16" - 7/8"			
6 x		3/8" - 7/16" - 1/2" - 9/16" - 11/16" - 3/4"			
2 x		5/8" - 13/16"			
7 x		1/8" - 5/32" - 3/16" - 7/32" - 1/4" - 5/16" - 3/8"			
10 x		T10 - T15 - T20 - T25 - T27 - T30 T40 - T45 - T50 - T55			
5 x		M4 - M5 - M6 - M8 - M10			
2 x		75 - 150 mm			
1 x		3/8"			
1 x		160 mm			
1 x		3/8"			

1/3 SCS - SOCKET WRENCH 1/2"

SCS Socket set

- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

1/2"

		L mm	B mm	H mm	kg
713.5005	5 pcs	390,0	188,0	35,0	1,85
1 x		1/2"			
2 x		125 - 250 mm			
1 x		250 mm			
1 x		250 mm			

SCS CHROME*plus*® socket set

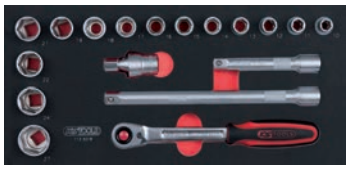
- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

1/2"

		L mm	B mm	H mm	kg
783.5005	5 pcs	390,0	188,0	35,0	1,60
1 x		1/2"			
2 x		125 - 250 mm			
1 x		250 mm			
1 x		250 mm			

SCS Socket set

- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam



1/2"

		L mm	B mm	H mm	kg
713.3018	18 pcs	390,0	188,0	35,0	2,14
14 x		10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 21 - 22 - 24 - 27 mm			
1 x		1/2"			
2 x		125 - 250 mm			
1 x		1/2"			

SCS CHROME*plus*® socket set

- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

1/2"

		L mm	B mm	H mm	kg
783.3018	18 pcs	390,0	188,0	35,0	2,25
14 x		10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 21 - 22 - 24 - 27 mm			
1 x		1/2"			
2 x		125 - 250 mm			
1 x		1/2"			

SCS Socket set

- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

1/2"

		L mm	B mm	H mm	kg
713.4024	24 pcs	390,0	188,0	35,0	3,60
17 x		10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 20 - 21 - 22 - 24 - 27 - 30 - 32 mm			
2 x		16 - 21 mm			
2 x		125 - 250 mm			
1 x		1/2“			
1 x		3/8“ x 1/2“			
1 x		1/2“			

SCS CHROME*plus*® socket set

- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

1/2"

		L mm	B mm	H mm	kg
783.4024	24 pcs	390,0	188,0	35,0	3,16
17 x		10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 20 - 21 - 22 - 24 - 27 - 30 - 32 mm			
2 x		16 - 21 mm			
2 x		125 - 250 mm			
1 x		1/2“			
1 x		3/8“ x 1/2“			
1 x		1/2“			

SCS Socket set

- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

1/2"

		L mm	B mm	H mm	kg
713.4025	25 pcs	390,0	375,0	35,0	2,87
16 x		10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 19 - 21 - 22 - 24 - 27 - 30 - 32 mm			
5 x		E10 - E12 - E14 - E16 - E18			
2 x		125 - 250 mm			
1 x		1/2“			
1 x		245 mm			

SCS CHROME*plus*® socket set

- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

1/2"

		L mm	B mm	H mm	kg
783.4025	25 pcs	390,0	375,0	35,0	2,95
16 x		10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 19 - 21 - 22 - 24 - 27 - 30 - 32 mm			
5 x		E10 - E12 - E14 - E16 - E18			
2 x		125 - 250 mm			
1 x		1/2“			
1 x		245 mm			

SCS Socket set

- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

1/2"

		L mm	B mm	H mm	kg
713.0028	28 pcs	390,0	188,0	35,0	3,24
11 x		12 - 17 - 18 - 19 - 20 - 21 - 22 - 24 - 27 - 30 - 32 mm			
13 x		8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 30 mm			
2 x		125 - 250 mm			
1 x		1/2“			
1 x		245 mm			

SCS CHROME*plus*® socket set

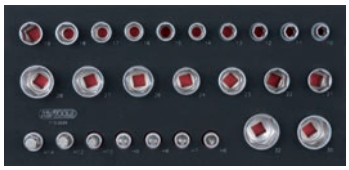
- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

1/2"

		L mm	B mm	H mm	kg
783.0028	28 pcs	390,0	188,0	35,0	3,31
11 x		12 - 17 - 18 - 19 - 20 - 21 - 22 - 24 - 27 - 30 - 32 mm			
13 x		8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 30 mm			
2 x		125 - 250 mm			
1 x		1/2“			
1 x		245 mm			

SCS Hexagonal socket set

- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam



1/2"

		L mm	B mm	H mm	kg
713.0026	26 pcs	390,0	188,0	35,0	2,59
19 x		10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 21 - 22 - 23 - 24 - 26 - 27 - 28 - 30 - 32 mm			
7 x		6 - 7 - 8 - 9 - 10 - 12 - 14 mm			

SCS CHROME*plus*® socket set

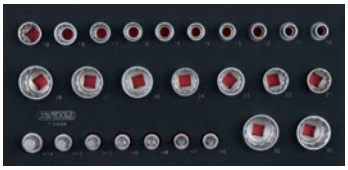
- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

1/2"

		L mm	B mm	H mm	kg
783.0026	26 pcs	390,0	188,0	35,0	2,51
19 x		10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 21 - 22 - 23 - 24 - 26 - 27 - 28 - 30 - 32 mm			
7 x		6 - 7 - 8 - 9 - 10 - 12 - 14 mm			

SCS Socket set

- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam



1/2"

		L mm	B mm	H mm	kg
713.4026	26 pcs	390,0	375,0	35,0	2,61
19 x		10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 21 - 22 - 23 - 24 - 26 - 27 - 28 - 30 - 32 mm			
7 x		6 - 7 - 8 - 9 - 10 - 12 - 14 mm			

SCS CHROME*plus*® socket set

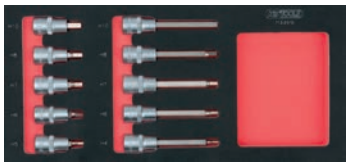
- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

1/2"

		L mm	B mm	H mm	kg
783.4026	26 pcs	390,0	375,0	35,0	2,60
19 x		10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 21 - 22 - 23 - 24 - 26 - 27 - 28 - 30 - 32 mm			
7 x		6 - 7 - 8 - 9 - 10 - 12 - 14 mm			

SCS Bit socket set

- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

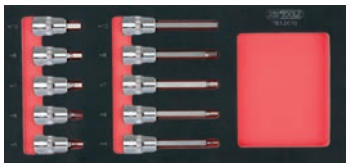


1/2"

		L mm	B mm	H mm	kg
713.2010	10 pcs	390,0	188,0	35,0	1,09
5 x		5 - 6 - 7 - 8 - 10 mm			
5 x		4 - 6 - 7 - 8 - 10 mm			

SCS CHROME*plus*® bit socket set

- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

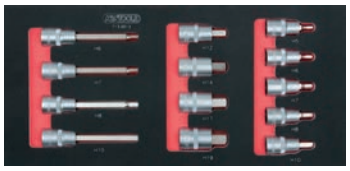


1/2"

		L mm	B mm	H mm	kg
783.2010	10 pcs	390,0	188,0	35,0	1,01
5 x		5 - 6 - 7 - 8 - 10 mm			
5 x		4 - 6 - 7 - 8 - 10 mm			

SCS Bit socket set

- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam



1/2"

		L mm	B mm	H mm	kg
713.0013	13 pcs	390,0	188,0	35,0	1,54
9 x		5 - 6 - 7 - 8 - 10 - 12 - 14 - 17 - 19 mm			
4 x		6 - 7 - 8 - 10 mm			

SCS CHROME*plus*® bit socket set

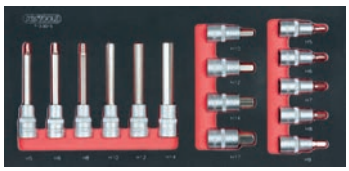
- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

1/2"

		L mm	B mm	H mm	kg
783.0013	13 pcs	390,0	188,0	35,0	1,50
9 x		5 - 6 - 7 - 8 - 10 - 12 - 14 - 17 - 19 mm			
4 x		6 - 7 - 8 - 10 mm			

SCS Bit socket set

- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

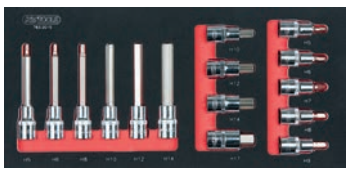


1/2"

		L mm	B mm	H mm	kg
713.0015	15 pcs	390,0	188,0	35,0	1,75
9 x		5 - 6 - 7 - 8 - 9 - 10 - 12 - 14 - 17 mm			
6 x		5 - 6 - 8 - 10 - 12 - 14 mm			

SCS CHROME*plus*® bit socket set

- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

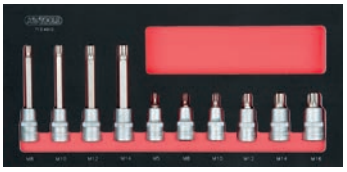


1/2"

		L mm	B mm	H mm	kg
783.0015	15 pcs	390,0	188,0	35,0	1,61
9 x		5 - 6 - 7 - 8 - 9 - 10 - 12 - 14 - 17 mm			
6 x		5 - 6 - 8 - 10 - 12 - 14 mm			

SCS Bit socket set

- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam



1/2"

		L mm	B mm	H mm	kg
713.4010	10 pcs	390,0	188,0	35,0	1,24
6 x		M5 - M8 - M10 - M12 - M14 - M16			
4 x		M8 - M9 - M12 - M14			

SCS CHROME*plus*® Bit socket set for Torx screws

- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

1/2"

		L mm	B mm	H mm	kg
783.4019	19 pcs	390,0	188,0	35,0	1,88
9 x		T20 - T25 - T27 - T30 - T40 - T45 T50 - T55 - T60			
9 x		T20 - T25 - T27 - T30 - T40 - T45 T50 - T55 - T60			
1 x		E1 x T5 - E30 x T70			

SCS Bit socket set

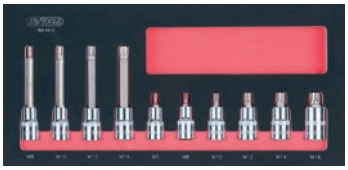
- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

1/2"

		L mm	B mm	H mm	kg
713.2013	13 pcs	390,0	188,0	35,0	1,36
4 x		5 - 6 - 7 - 8 mm			
1 x		10 mm			
5 x		M5 - M6 - M8 - M10 - M12			
3 x		M8 - M10 - M12			

SCS CHROME*plus*® Bit socket set for spline (XZN®) screws

- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam



1/2"

		L mm	B mm	H mm	kg
783.4010	10 pcs	390,0	188,0	35,0	1,18
6 x		M5 - M8 - M10 - M12 - M14 - M16			
4 x		M8 - M10 - M12 - M14			

SCS Bit socket set

- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

1/2"

		L mm	B mm	H mm	kg
713.9011	11 pcs	390,0	188,0	35,0	1,40
5 x		5 - 6 - 7 - 8 - 10 mm			
1 x		T70 x 110 mm			
2 x		T45 - T55 x 140 mm			
3 x		M8 - M10 - M12			

SCS CHROME*plus*® bit socket set

- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

1/2"

		L mm	B mm	H mm	kg
783.2013	13 pcs	390,0	188,0	35,0	1,23
4 x		5 - 6 - 7 - 8 mm			
1 x		10 mm			
5 x		M5 - M6 - M8 - M10 - M12			
3 x		M8 - M10 - M12			

SCS Bit socket set

- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

1/2"

		L mm	B mm	H mm	kg
713.4019	19 pcs	390,0	188,0	35,0	1,88
9 x		T20 - T25 - T27 - T30 - T40 - T45 T50 - T55 - T60			
9 x		T20 - T25 - T27 - T30 - T40 - T45 T50 - T55 - T60			
1 x		E1 x T5 - E30 x T70			

SCS CHROME*plus*® bit socket set

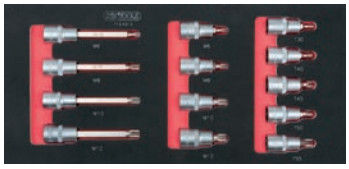
- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

1/2"

		L mm	B mm	H mm	kg
783.9011	11 pcs	390,0	188,0	35,0	1,40
5 x		5 - 6 - 7 - 8 - 10 mm			
1 x		T70 x 110 mm			
2 x		T45 - T55 x 140 mm			
3 x		M8 - M10 - M14			

SCS Bit socket set

- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

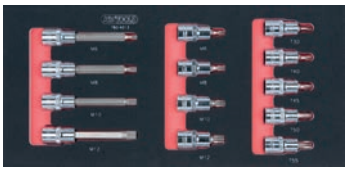


1/2"

		L mm	B mm	H mm	kg
713.4013	13 pcs	390,0	188,0	35,0	2,69
5 x		T30 - T40 - T45 - T50 - T55			
4 x		M6 - M8 - M9 - M12			
4 x		M6 - M8 - M10 - M12			

SCS CHROME*plus*® bit socket set

- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

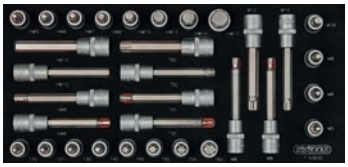


1/2"

		L mm	B mm	H mm	kg
783.4013	13 pcs	390,0	188,0	35,0	2,75
5 x		T30 - T40 - T45 - T50 - T55			
4 x		M6 - M8 - M9 - M12			
4 x		M6 - M8 - M10 - M12			

SCS Bit socket set

- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

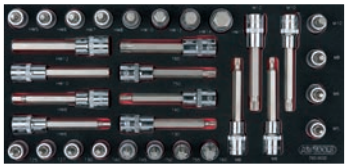


1/2"

		L mm	B mm	H mm	kg
713.0032	32 pcs	390,0	188,0	35,0	3,50
8 x		5 - 6 - 7 - 8 - 10 - 12 - 14 - 17 mm			
4 x		6 - 8 - 10 - 12 mm			
8 x		T25 - T27 - T30 - T40 - T45 - T50 - T55 - T60			
4 x		T30 - T40 - T50 - T60			
4 x		M5 - M6 - M8 - M10			
4 x		M6 - M8 - M10 - M12			

SCS CHROME*plus*® Bit socket set

- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam



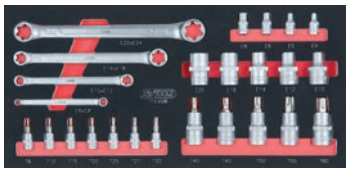
1/2"

		L mm	B mm	H mm	kg
783.0032	32 pcs	390,0	188,0	35,0	6,30
8 x		5 - 6 - 7 - 8 - 10 - 12 - 14 - 17 mm			
4 x		6 - 8 - 10 - 12 mm			
8 x		T25 - T27 - T30 - T40 - T45 - T50 - T55 - T60			
4 x		T30 - T40 - T50 - T60			
4 x		M5 - M6 - M8 - M10			
4 x		M6 - M8 - M10 - M12			

1/3 SCS - SOCKET WRENCH 1/4" + 1/2" - METRIC

SCS Torx E-Profile tool set

- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

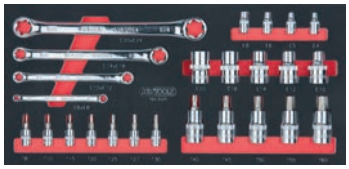


1/4" 1/2"

		L mm	B mm	H mm	kg
713.2025	25 pcs	390,0	188,0	35,0	1,20
9 x		1/4": E4 - E5 - E6 - E8, 1/2": E10 - E12 - E14 - E18 - E20			
5 x		1/2": T40 - T45 - T50 - T55 - T60			
7 x		1/4": TB8 - TB10 - TB15 - TB20 TB25 - TB27 - TB30			
4 x		E6 x E8 - E10 x E12 - E14 x E18 E20 x E24			

SCS CHROME*plus*® Torx-E-profile tool set

- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam



1/4" 1/2"

		L mm	B mm	H mm	kg
783.2025	25 pcs	390,0	188,0	35,0	1,20
9 x		1/4": E4 - E5 - E6 - E8, 1/2": E10 - E12 - E14 - E18 - E20			
5 x		1/2": T40 - T45 - T50 - T55 - T60			
7 x		1/4": TB8 - TB10 - TB15 - TB20 TB25 - TB27 - TB30			
4 x		E6 x E8 - E10 x E12 - E14 x E18 E20 x E24			

SCS Socket set

- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

1/4" 1/2"

		L mm	B mm	H mm	kg
713.3047	47 pcs	390,0	188,0	35,0	2,14
8 x		1/4": 5 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm			
3 x		1/4": 4 - 4,5 - 5,5 mm			
5 x		1/4": 2 - 3 - 4 - 5 - 6 mm			
2 x		1/4": PH1 - PH2			
2 x		1/4": PZ1 - PZ2			
5 x		1/4": T10 - T15 - T20 - T25 - T30			
1 x		1/4"			
1 x		1/4"			
1 x		1/4": 100 mm			
1 x		1/4"			
1 x		1/4"			
14 x		1/2": 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 21 - 22 - 24 - 27 mm			
2 x		1/2": 125 - 250 mm			
1 x		1/2"			

SCS CHROME*plus*® socket set

- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

1/4" 1/2"

		L mm	B mm	H mm	kg
783.3047	47 pcs	390,0	188,0	35,0	2,60

8 x	1/4": 5 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm
3 x	1/4": 4 - 4,5 - 5,5 mm
5 x	1/4": 2 - 3 - 4 - 5 - 6 mm
2 x	1/4": PH1 - PH2
2 x	1/4": PZ1 - PZ2
5 x	1/4": T10 - T15 - T20 - T25 - T30
1 x	1/4"
1 x	1/4"
1 x	1/4": 100 mm
1 x	1/4"
1 x	1/4"
14 x	1/2": 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 21 - 22 - 24 - 27 mm
2 x	1/2": 125 - 250 mm
1 x	1/2"

SCS Bit socket set

- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

1/4" 1/2"

		L mm	B mm	H mm	kg
713.0031	31 pcs	390,0	188,0	35,0	1,20

7 x	1/4": T10 - T15 - T20 - T25 - T27 T30 - T40
5 x	1/2": T30 - T40 - T45 - T50 - T55
5 x	1/4": E5 - E6 - E7 - E8 - E10
6 x	1/2": E10 - E12 - E14 - E16 - E18 - E20
1 x	TB10 - TB15 - TB20 - TB25 - TB30 TB40 - TB45 - TB50

SCS CHROME*plus*® Bit socket set for Torx screws

- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

1/4" 1/2"

		L mm	B mm	H mm	kg
783.0031	31 pcs	390,0	188,0	35,0	1,15

7 x	1/4": T10 - T15 - T20 - T25 - T27 T30 - T40
5 x	1/2": T30 - T40 - T45 - T50 - T55
5 x	1/4": E5 - E6 - E7 - E8 - E10
6 x	1/2": E10 - E12 - E14 - E16 - E18 - E20
1 x	TB10 - TB15 - TB20 - TB25 - TB30 TB40 - TB45 - TB50

1/3 SCS - SOCKET WRENCH 1/4" + 3/8" + 1/2" - METRIC

SCS Spark plug service set

- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

1/4" 3/8" 1/2"

		L mm	B mm	H mm	kg
713.0027	27 pcs	390,0	188,0	35,0	3,35

20 x	1/4": 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm 1/2": 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm
1 x	3/8"
1 x	3/8" - 150 mm
1 x	3/8" - 150 mm
4 x	14 - 16 - 18 - 21 mm

SCS CHROME*plus*® spark plug service set

- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

1/4" 3/8" 1/2"

		L mm	B mm	H mm	kg
783.0027	27 pcs	390,0	188,0	35,0	3,35

20 x	1/4": 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm 1/2": 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm
1 x	3/8"
1 x	3/8" - 150 mm
1 x	3/8" - 150 mm
4 x	14 - 16 - 18 - 21 mm

1/3 SCS - IMPACT SOCKET WRENCH - METRIC

SCS Impact socket set

- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

1/2"

		L mm	B mm	H mm	kg
713.0012	12 pcs	390,0	188,0	35,0	3,05

12 x	10 - 13 - 14 - 16 - 17 - 18 - 19 - 21 22 - 23 - 24 - 27 mm

SCS impact socket wrench and bit set

- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

5/16" 1/2"

		L mm	B mm	H mm	kg
713.0019	19 pcs	390,0	188,0	35,0	2,11

5 x	1/2": 10 - 13 - 14 - 17 - 19 mm
4 x	5/16": 4 - 5 - 6 - 7 mm
4 x	5/16": PH1 - PH2 - PH3 - PH4
4 x	5/16": 5 - 8 - 10 - 14 m
1 x	1/2" x 5/16"
1 x	1/2": 135 mm

SCS impact socket and bit set

- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

5/16" 1/2"

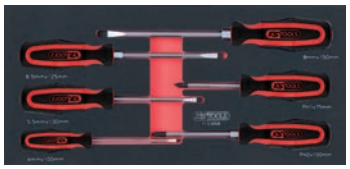
		L mm	B mm	H mm	kg
713.2023	23 pcs	390,0	188,0	35,0	3,10

5 x	1/2": 10 - 13 - 14 - 17 - 19 mm
4 x	1/2": 17 - 19 - 21 - 22 mm
1 x	1/2": 38 mm
1 x	1/2": 135 mm
4 x	5/16": 5 - 8 - 10 - 14 mm
4 x	5/16": PH1 - PH2 - PH3 - PH4
4 x	5/16": 5 - 6 - 7 - 10 mm

1/3 SCS - SCREWDRIVER

SCS ERGOTORQUE*plus*® screwdriver set

- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

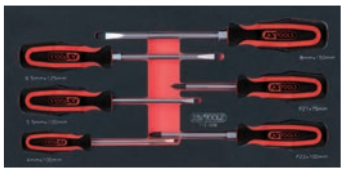


		L mm	B mm	H mm	kg
713.0006	6 pcs	390,0	188,0	35,0	0,43

4 x	4 - 5,5 - 6,5 - 8 mm
2 x	PH1 - PH2

SCS ERGOTORQUE*plus*® screwdriver set

- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam



		L mm	B mm	H mm	kg
713.1006	6 pcs	390,0	188,0	35,0	0,84

4 x	4,0 - 5,5 - 6,5 - 8,0 mm
2 x	PZ1 - PZ2

SCS T-handle Torx-key wrench set

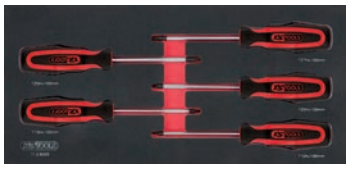
- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

		L mm	B mm	H mm	kg
713.2009	9 pcs	390,0	188,0	35,0	1,35

9 x	(T10 - T15 - T20 - T25 - T27 - T30) x 100, T40 x 200 (T45 - T50) x 250 mm

SCS ERGOTORQUE*plus*® screwdriver set

- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

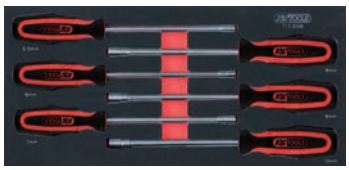


		L mm	B mm	H mm	kg
713.9005	5 pcs	390,0	188,0	35,0	0,25

5 x	TB10 - TB15 - TB20 - TB25 - TB27

SCS ERGOTORQUE*plus*® socket screwdriver set

- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

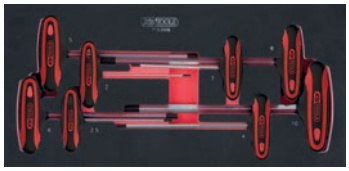


		L mm	B mm	H mm	kg
713.3006	6 pcs	390,0	188,0	35,0	0,65

6 x	5,5 - 6 - 7 - 8 - 9 - 10 mm

SCS CHROME*plus*® T-handle hex key wrench set

- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam



		L mm	B mm	H mm	kg
713.0008	8 pcs	390,0	188,0	35,0	1,10

8 x	2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm

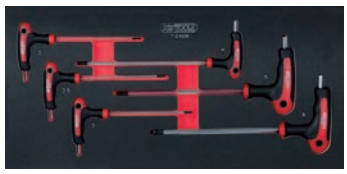
SCS Torx T-handle key wrench-set

- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

		L mm	B mm	H mm	kg
713.3009	9 pcs	390,0	188,0	35,0	1,39
9 x		TB10 - TB15 - TB20 - TB25 - TB27 - TB30 - TB40 - TB45 - TB50			

SCS T-handle hex key wrench set

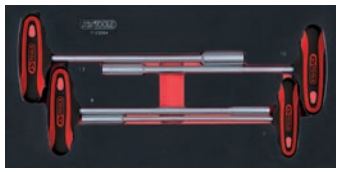
- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam



		L mm	B mm	H mm	kg
713.4006	6 pcs	390,0	188,0	35,0	0,41
6 x		2 - 2,5 - 3 - 4 - 5 - 6 mm			

SCS ERGOTORQUE*plus*® T-handle key wrench set

- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam



		L mm	B mm	H mm	kg
713.5004	4 pcs	390,0	188,0	35,0	0,64
4 x		7 - 8 - 10 - 13 mm			

1/3 SCS - PLIERS

SCS Pliers set

- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

		L mm	B mm	H mm	kg
713.6004	4 pcs	390,0	188,0	35,0	1,18
1 x		160 mm			
1 x		180 mm			
1 x		200 mm			
1 x		240 mm			

SCS Circlip pliers set

- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

		L mm	B mm	H mm	kg
713.5006	6 pcs	390,0	188,0	35,0	0,80
2 x		10 - 25 mm, 19 - 60 mm			
1 x		19 - 60 mm			
2 x		12 - 25 mm, 19 - 60 mm			
1 x		19 - 60 mm			

SCS automatic grip pliers set

- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

		L mm	B mm	H mm	kg
713.1003	3 pcs	390,0	188,0	35,0	1,08
2 x		175 - 250 mm			
1 x		150 mm			

SCS grip pliers set

- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

		L mm	B mm	H mm	kg
713.8004	4 pcs	390,0	188,0	35,0	1,86
2 x		175 - 250 mm			
1 x		150 mm			
1 x		285 mm			

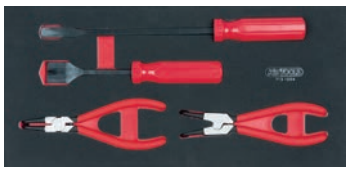
SCS Pliers set

- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

		L mm	B mm	H mm	kg
713.9004	4 pcs	390,0	188,0	35,0	1,25
1 x		180 mm			
1 x		160 mm			
1 x		160 mm			
1 x		250 mm			

SCS pliers and scraper set

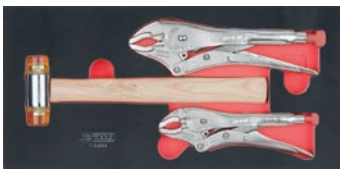
- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam



		L mm	B mm	H mm	kg
713.1004	4 pcs	390,0	188,0	35,0	0,66
1 x		160 mm			
1 x		160 mm			
2 x		25x200 - 12,5x300 mm			

SCS hammer and grip pliers set

- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam



		L mm	B mm	H mm	kg
713.2003	3 pcs	390,0	188,0	35,0	1,11
2 x		175 - 250 mm			
1 x		200 g			

1/3 SCS - VDE

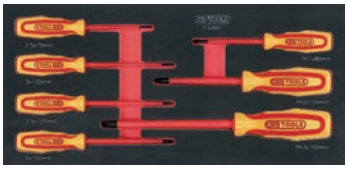
SCS VDE socket wrench set

- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

		L mm	B mm	H mm	kg
713.2018	18 pcs	390,0	188,0	35,0	1,47
15 x		6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 16 17 - 18 - 19 - 20 - 22 mm			
2 x		125 - 250 mm			
1 x		205 mm			

SCS VDE screwdriver set

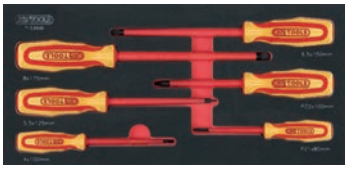
- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam



		L mm	B mm	H mm	kg
713.2007	7 pcs	390,0	188,0	35,0	0,68
4 x		2,5 - 3,0 - 3,5 - 4,0 mm			
3 x		PH1 - PH2 - PH3			

SCS VDE screwdriver set

- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam



		L mm	B mm	H mm	kg
713.2006	6 pcs	390,0	188,0	35,0	0,58
4 x		4,0 - 5,5 - 6,5 - 8,0 mm			
2 x		PZ1 - PZ2			

SCS Insulated pliers set

- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

		L mm	B mm	H mm	kg
713.0003	3 pcs	390,0	188,0	35,0	1,00
1 x		160 mm			
1 x		200 mm			
1 x		208 mm			

SCS VDE pliers set

- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

		L mm	B mm	H mm	kg
713.7004	4 pcs	390,0	188,0	35,0	1,11
1 x		156 mm			
1 x		175 mm			
1 x		165 mm			
1 x		240 mm			

1/3 SCS - MEASURING AND CHECKING TOOL

SCS Measuring tool set

- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

		L mm	B mm	H mm	kg
713.3005	5 pcs	390,0	188,0	35,0	0,58
1 x		230 mm			
1 x		190 mm			
1 x		E1 x T5 - E30 x T70			
1 x		0 - 150 mm			
1 x		5 m x 19 mm			

SCS Measuring tool set

- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

		L mm	B mm	H mm	kg
713.2008	8 pcs	390,0	188,0	35,0	1,19
1 x		0 - 10 mm			
1 x		0 - 150 mm			
1 x		300 x 13 x 0,5 mm			
1 x		3 m x 16 mm			
1 x					
1 x					
1 x		100 mm			
1 x					

1/3 SCS - PULLER

SCS Puller set

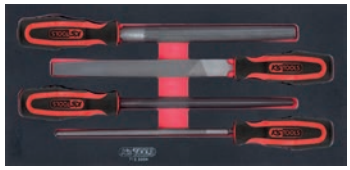
- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

		L mm	B mm	H mm	kg
713.2005	5 pcs	390,0	188,0	35,0	1,63
3 x					
1 x					
1 x					

1/3 SCS - WORKSHOP SUPPLIES

SCS Workshop file set

- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam



		L mm	B mm	H mm	kg
713.3004	4 pcs	390,0	188,0	35,0	0,86
1 x	200 mm				
1 x	200 mm				
1 x	200 mm				
1 x	200 mm				

SCS chisel and hammer set

- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

		L mm	B mm	H mm	kg
713.0009	9 pcs	390,0	188,0	35,0	1,04
1 x	130 mm				
1 x	130 mm				
1 x	2 - 3 - 4 - 5 - 6 - 8 mm				
1 x	300 g				

SCS Universal tool set

- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

		L mm	B mm	H mm	kg
713.2014	14 pcs	390,0	188,0	35,0	0,75
1 x	1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 7 - 8 - 10 mm				
1 x	200 g				
1 x	12,5 x 300 mm				
1 x	0,1 - 1,0 mm				
1 x	3 m x 16 mm				

SCS Drive punch and hammer set

- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

		L mm	B mm	H mm	kg
713.8013	13 pcs	390,0	188,0	35,0	1,75
1 x					
1 x	2 - 3 - 4 - 5 - 6 - 8				
1 x	500 g				
1 x	160 mm				

1/3 SCS - EMPTY INSERTS

SCS Universal system insert for tools or small parts (empty)

- 1/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

	L mm	B mm	H mm	kg
713.0000	390,0	188,0	35,0	0,10

Anti slip mat

- Thickness 10 mm
- Uncut for self modelling

	L mm	B mm	kg
800.0920	10000,0	600,0	2,50

2/3 SCS - SPANNER - METRIC

SCS Combination spanners set, offset

- 2/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

		L mm	B mm	H mm	kg
712.2017	17 pcs	390,0	375,0	35,0	1,90
17 x	6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 16 - 17 - 18 - 19 - 21 - 22 - 24 mm				

SCS Combination spanners set, offset

- 2/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

		L mm	B mm	H mm	kg
782.2017	17 pcs	390,0	375,0	35,0	2,40
17 x	6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 16 - 17 - 18 - 19 - 21 - 22 - 24 mm				

SCS Combination spanners set, offset

- 2/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

		L mm	B mm	H mm	kg
712.3005	5 pcs	390,0	375,0	35,0	2,19
5 x	23 - 24 - 27 - 30 - 32 mm				

SCS CHROME*plus* Combination spanners set, offset

- 2/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

		L mm	B mm	H mm	kg
782.3005	5 pcs	390,0	375,0	35,0	2,95
5 x	23 - 24 - 27 - 30 - 32 mm				

SCS Combination spanners set, offset

- 2/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

		L mm	B mm	H mm	kg
712.0027	27 pcs	390,0	375,0	35,0	2,37
1 x	1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 7 - 8 - 10 mm				
17 x	6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 16 - 17 - 18 - 19 - 20 - 21 - 22 mm				

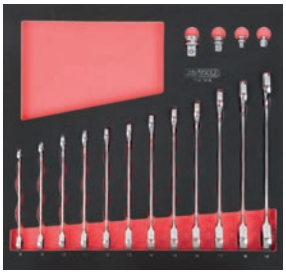
SCS CHROME*plus* Combination spanners set, offset

- 2/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

		L mm	B mm	H mm	kg
782.0027	27 pcs	390,0	375,0	35,0	2,85
1 x	1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 7 - 8 - 10 mm				
17 x	6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 16 - 17 - 18 - 19 - 20 - 21 - 22 mm				

SCS GEAR*plus*® ratchet combination spanner set, including adaptors

- 2/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam



		L mm	B mm	H mm	kg
712.1016	16 pcs	390,0	188,0	35,0	1,80
1 x	1/4" x 10 mm				
3 x	1/4" x 10 mm - 3/8" x 13 mm 1/2" x 19 mm				
12 x	8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 17 - 18 - 19 mm				

SCS GEAR*plus*® reversing ratchet combination spanner set, including adaptors

- 2/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

		L mm	B mm	H mm	kg
712.0016	16 pcs	390,0	188,0	35,0	1,68
1 x	1/4" x 10 mm				
3 x	1/4" x 10 mm - 3/8" x 13 mm 1/2" x 19 mm				
12 x	8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 17 - 18 - 19 mm				

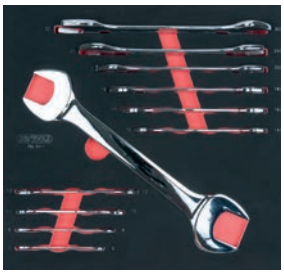
SCS Double open ended spanner set

- 2/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

		L mm	B mm	H mm	kg
712.3011	11 pcs	390,0	375,0	35,0	2,81
11 x	6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17 - 18x19 - 20x22 - 24x27 - 30x32 - 36x41 mm				

SCS CHROME*plus*® double open ended spanner set

- 2/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam



		L mm	B mm	H mm	kg
782.3011	11 pcs	390,0	375,0	35,0	4,40
11 x	6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17 - 18x19 - 20x22 - 24x27 - 30x32 - 36x41 mm				

SCS Double ring spanner set

- 2/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

		L mm	B mm	H mm	kg
712.5011	11 pcs	390,0	375,0	35,0	1,30
11 x	6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17 - 18x19 - 20x22 - 22x24 - 24x27 - 30x32 mm				

SCS double ring spanner set

- 2/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

		L mm	B mm	H mm	kg
712.0009	9 pcs	390,0	375,0	35,0	1,73

9 x	6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17 - 18x19 - 20x22 - 21x23 mm

SCS CHROME*plus* double ring spanner set

- 2/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

		L mm	B mm	H mm	kg
782.0009	9 pcs	390,0	375,0	35,0	1,95

9 x	6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17 - 18x19 - 20x22 - 21x23 mm

SCS Double revolving head spanner set

- 2/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

		L mm	B mm	H mm	kg
712.0014	14 pcs	390,0	375,0	35,0	2,45

2 x	10 x 11 - 12 x 13 mm
5 x	T15 x T20 - T25 x T27 - T30 x T40 T45 x T50 - T55 x T60
4 x	E6 x E8 - E10 x E12 - E14 x E16 E22 x E24
3 x	3 x 4 - 5 x 6 - 8 x 10 mm

SCS Pipe head box wrench set

- 2/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

		L mm	B mm	H mm	kg
712.7011	11 pcs	390,0	375,0	35,0	5,26

11 x	8 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm

2/3 SCS - SOCKET WRENCH 3/8" - METRIC

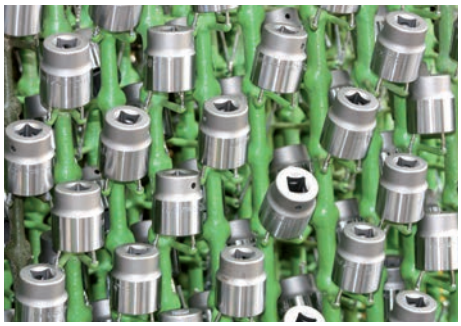
SCS Socket set

- 2/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

3/8"

		L mm	B mm	H mm	kg
712.0034	34 pcs	390,0	375,0	35,0	3,00

13 x	10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 21 - 22 - 24 mm
7 x	1/2" - 9/16" - 19/32" - 5/8" - 11/16" - 3/4" - 7/8"
5 x	10 - 13 - 17 - 19 - 22 mm
3 x	16 - 18 - 21 mm
3 x	75 - 150 - 250 mm
1 x	3/8"
1 x	260 mm
1 x	3/8"



SCS CHROMEplus® socket set

- 2/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

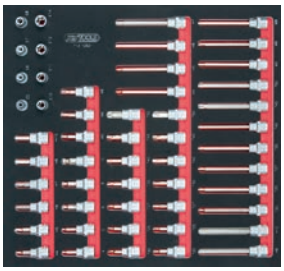
3/8"

		L mm	B mm	H mm	kg
782.0034	34 pcs	390,0	375,0	35,0	3,00

13 x	10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 21 - 22 - 24 mm
7 x	1/2" - 9/16" - 19/32" - 5/8" - 11/16" - 3/4" - 7/8"
5 x	10 - 13 - 17 - 19 - 22 mm
3 x	16 - 18 - 21 mm
3 x	75 - 150 - 250 mm
1 x	3/8"
1 x	260 mm
1 x	3/8"

SCS Socket set

- 2/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam



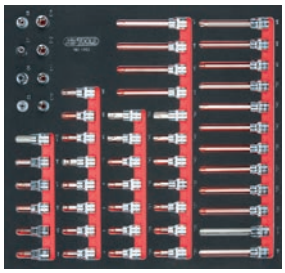
3/8"

		L mm	B mm	H mm	kg
712.1052	52 pcs	390,0	375,0	35,0	2,30

8 x	3/8": E5 - E6 - E7 - E8 - E10 - E11 E12 - E14
6 x	3/8": 4 - 5 - 6 - 7 - 8 - 10 mm
5 x	3/8": 4 - 5 - 6 - 8 - 10 mm
7 x	3/8": T20 - T25 - T27 - T30 - T40 T45 - T50
7 x	3/8": TB20 - TB25 - TB27 - TB30 TB40 TB45 - TB50
3 x	3/8": M5 - M6 - M8
6 x	3/8": 4 - 5 - 6 - 7 - 8 - 10 mm
7 x	3/8": T20 - T25 - T27 - T30 - T40 T45 - T50
3 x	3/8": M5 - M6 - M8

SCS CHROMEplus® socket set

- 2/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam



3/8"

		L mm	B mm	H mm	kg
782.1052	52 pcs	390,0	375,0	35,0	2,45

8 x	3/8": E5 - E6 - E7 - E8 - E10 - E11 E12 - E14
6 x	3/8": 4 - 5 - 6 - 7 - 8 - 10 mm
5 x	3/8": 4 - 5 - 6 - 8 - 10 mm
7 x	3/8": T20 - T25 - T27 - T30 - T40 T45 - T50
7 x	3/8": TB20 - TB25 - TB27 - TB30 TB40 TB45 - TB50
4 x	3/8": M5 - M6 - M8 - M10
6 x	3/8": 4 - 5 - 6 - 7 - 8 - 10 mm
7 x	3/8": T20 - T25 - T27 - T30 - T40 T45 - T50

2/3 SCS - SOCKET WRENCH 1/2" - METRIC

SCS Socket set

- 2/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

1/2"

		L mm	B mm	H mm	kg
712.0026	26 pcs	390,0	375,0	35,0	3,93

21 x	1/2": 10-11-12-13-14-15-16-17-18-19-20-21 22-23-24-26-27-28-30-32-34 mm
2 x	1/2": 125 - 250 mm
1 x	1/2": 250 mm
1 x	1/2"
1 x	1/2"

SCS CHROMEplus® socket set

- 2/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

1/2"

		L mm	B mm	H mm	kg
782.0026	26 pcs	390,0	375,0	35,0	3,92

21 x	1/2": 10-11-12-13-14-15-16-17-18-19-20-21 22-23-24-26-27-28-30-32-34 mm
2 x	1/2": 125 - 250 mm
1 x	1/2": 250 mm
1 x	1/2"
1 x	1/2"

SCS Socket set

- 2/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

1/2"

		L mm	B mm	H mm	kg
712.1029	29 pcs	390,0	375,0	35,0	6,18

24 x	10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 23 - 24 - 25 - 26 - 27 - 28 - 29 - 30 - 32 - 34 - 36 mm
1 x	1/2"
2 x	150 - 250 mm
1 x	380 mm
1 x	1/2"

CHROMEplus® socket set

- 2/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

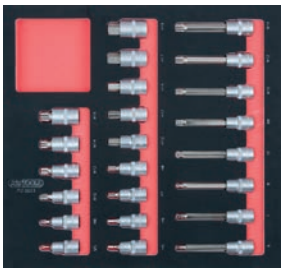
1/2"

		L mm	B mm	H mm	kg
782.1029	29 pcs	390,0	375,0	35,0	4,80

24 x	10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 23 - 24 - 25 - 26 - 27 - 28 - 29 - 30 - 32 - 34 - 36 mm
1 x	1/2"
2 x	150 - 250 mm
1 x	380 mm
1 x	1/2"

SCS Bit socket set

- 2/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam



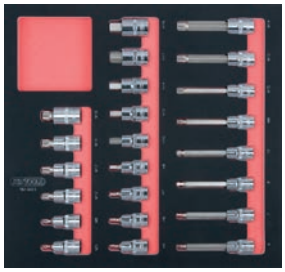
1/2"

		L mm	B mm	H mm	kg
712.0023	23 pcs	390,0	375,0	35,0	2,90

9 x	5 - 6 - 7 - 8 - 10 - 12 - 14 - 17 - 19 mm
6 x	M5 - M8 - M10 - M12 - M14 - M16
4 x	M8 - M10 - M12 - M14
4 x	6 - 7 - 8 - 9 mm

SCS CHROME*plus*® Bit socket set

- 2/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam



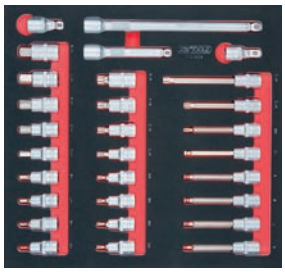
1/2"

		L mm	B mm	H mm	kg
782.0023	23 pcs	390,0	375,0	35,0	2,70

9 x	5 - 6 - 7 - 8 - 10 - 12 - 14 - 17 - 19 mm
6 x	M5 - M8 - M10 - M12 - M14 - M16
4 x	M8 - M10 - M12 - M14
4 x	6 - 7 - 8 - 9 mm

SCS Bit socket set

- 2/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam



1/2"

		L mm	B mm	H mm	kg
712.0029	29 pcs	390,0	375,0	35,0	3,50

9 x	5 - 6 - 7 - 8- 10 - 12 - 14 - 17 - 19 mm
8 x	M5 - M6 -M8 - M9 - M10 - M12 - M14 M16
2 x	M8 - M12 x 110 mm
1 x	M12 x 140 mm
5 x	6 - 7 - 8 - 9 -10 mm
1 x	50 mm
3 x	50 - 125 - 250 mm

SCS CHROMEplus® socket set

- 2/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

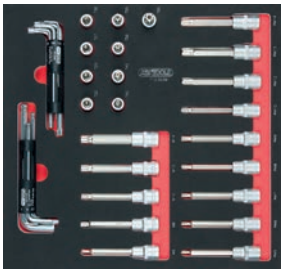
1/2"

		L mm	B mm	H mm	kg
782.0029	29 pcs	390,0	375,0	35,0	3,53

9 x	5 - 6 - 7 - 8- 10 - 12 - 14 - 17 - 19 mm
8 x	M5 - M6 -M8 - M9 - M10 - M12 - M14 M16
2 x	M8 - M12 x 110 mm
1 x	M12 x 140 mm
5 x	6 - 7 - 8 - 9 -10 mm
1 x	50 mm
3 x	50 - 125 - 250 mm

SCS Socket set

- 2/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam



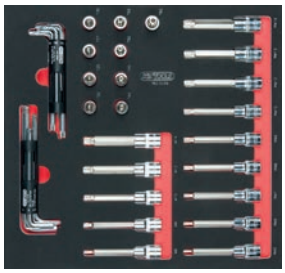
1/2"

		L mm	B mm	H mm	kg
712.0039	39 pcs	390,0	375,0	35,0	3,60

9 x	TB20 - TB25 - TB27 - TB30 - TB40 TB45 - TB50 - TB55 - TB60
5 x	M6 - M8 - M9 - M12 - M14
9 x	M5 - M6 - M7 - M8 - M9 - M10 - M12 M13 - M14
1 x	2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10
1 x	T10 - T15 - T20 - T25 - T30 - T40 T45 - T50

SCS CHROMEplus® socket set

- 2/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam



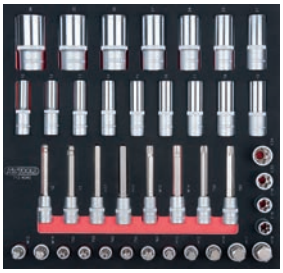
1/2"

		L mm	B mm	H mm	kg
782.0039	39 pcs	390,0	375,0	35,0	3,50

9 x	TB20 - TB25 - TB27 - TB30 - TB40 TB45 - TB50 - TB55 - TB60
5 x	M6 - M8 - M9 - M12 - M14
9 x	M5 - M6 - M7 - M8 - M9 - M10 - M12 M13 - M14
1 x	2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10
1 x	T10 - T15 - T20 - T25 - T30 - T40 T45 - T50

SCS Socket set

- 2/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam



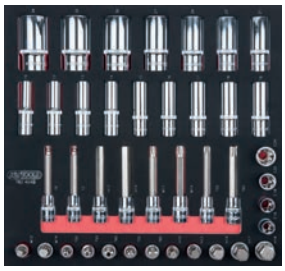
1/2"

		L mm	B mm	H mm	kg
712.4040	40 pcs	390,0	375,0	35,0	6,18

4 x	E16 - E18 - E20 - E24
16 x	10 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 21 - 22 - 24 - 27 - 30 - 32 - 34 mm
5 x	10 - 12 - 14 - 17 - 19 mm
2 x	12 - 14 mm
2 x	10 - 12 mm
2 x	T55 - T60
2 x	T55 - T60
3 x	TB50 - TB55 - TB60
2 x	M12 - M14
2 x	M12 - M14

SCS CHROMEplus® socket set

- 2/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam



1/2"

		L mm	B mm	H mm	kg
782.4040	40 pcs	390,0	375,0	35,0	1,55

4 x		E16 - E18 - E20 - E24
16 x		10 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 21 - 22 - 24 - 27 - 30 - 32 - 34 mm
5 x		10 - 12 - 14 - 17 - 19 mm
2 x		12 - 14 mm
2 x		10 - 12 mm
2 x		T55 - T60
2 x		T55 - T60
3 x		TB50 - TB55 - TB60
2 x		M12 - M14
2 x		M12 - M14

2/3 SCS - SOCKET WRENCH 1/2" - IMPERIAL

SCS Socket set

- 2/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

1/2"

		L mm	B mm	H mm	kg
712.6030	30 pcs	390,0	375,0	35,0	5,30

15 x		3/8" - 7/16" - 1/2" - 9/16" - 19/32" - 5/8" - 11/16" - 3/4" 13/16" - 7/8" - 15/16" - 1" - 1.1/16" - 1.1/8" - 1.1/4
7 x		1/2" - 9/16" - 11/16" - 3/4" - 7/8" 15/16" - 1"
2 x		5/8" - 13/16"
2 x		125 - 250 mm
1 x		1/2"
1 x		3/8"F x 1/2"M
1 x		380 mm
1 x		1/2"

SCS CHROME*plus*® Socket set

- 2/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

1/2"

		L mm	B mm	H mm	kg
782.6030	30 pcs	390,0	375,0	35,0	5,30

15 x		3/8" - 7/16" - 1/2" - 9/16" - 19/32" - 5/8" - 11/16" - 3/4" 13/16" - 7/8" - 15/16" - 1" - 1.1/16" - 1.1/8" - 1.1/4
7 x		1/2" - 9/16" - 11/16" - 3/4" - 7/8" 15/16" - 1"
2 x		5/8" - 13/16"
2 x		125 - 250 mm
1 x		1/2"
1 x		3/8"F x 1/2"M
1 x		380 mm
1 x		1/2"

2/3 SCS - SOCKET WRENCH 1/4" + 1/2" - METRIC

SCS Socket set

- 2/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

1/4" 1/2"

		L mm	B mm	H mm	kg
712.0057	57 pcs	390,0	375,0	35,0	4,31

9 x		1/4": 5,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm
20 x		1/2": 10-11-12-13-14-15-16-17-18-19 20-21-22-23-24-26-27-28-30-32 mm
3 x		1/4": 4,5 - 6 - 6,5 mm
2 x		1/4": PH1 - PH3
2 x		1/4": PZ1 - PZ2
5 x		1/4": 3 - 4 - 5 - 6 - 8 mm
4 x		1/4": T15 - T20 - T25 - T30
2 x		1/4": 50 - 150 mm
2 x		1/2": 125 - 250 mm
1 x		1/2"
1 x		1/4"
1 x		1/4"
1 x		1/4"
2 x		1/4" - 1/2"
2 x		1/4" - 1/2"

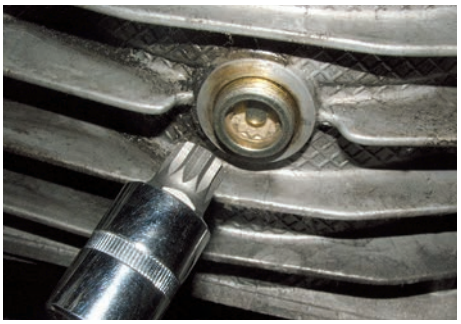
SCS CHROMEplus® socket set

- 2/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

1/4" 1/2"

		L mm	B mm	H mm	kg
782.0057	57 pcs	390,0	375,0	35,0	4,30

9 x		1/4": 5,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm
20 x		1/2": 10-11-12-13-14-15-16-17-18-19 20-21-22-23-24-26-27-28-30-32 mm
3 x		1/4": 4,5 - 6 - 6,5 mm
2 x		1/4": PH1 - PH3
2 x		1/4": PZ1 - PZ2
5 x		1/4": 3 - 4 - 5 - 6 - 8 mm
4 x		1/4": T15 - T20 - T25 - T30
2 x		1/4": 50 - 150 mm
2 x		1/2": 125 - 250 mm
1 x		1/2"
1 x		1/4"
1 x		1/4"
1 x		1/4"
2 x		1/4" - 1/2"
2 x		1/4" - 1/2"



2/3 SCS - SOCKET WRENCH 1/4" + 3/8" + 1/2" - METRIC

SCS Torx socket wrench set

- 2/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

1/4" 3/8" 1/2"

		L mm	B mm	H mm	kg
712.1057	57 pcs	390,0	375,0	35,0	2,31

7 x	1/4": E4 - E5 - E6 - E7 - E8 - E10 - E11
2 x	3/8": E12 - E14
4 x	1/2": E16 - E18 - E20 - E24
2 x	3/8": T40 - T45
3 x	1/2": T50 - T55 - T60
1 x	1/4": T20
10 x	1/4": TB7 - TB8 - TB9 - TB10 - TB15 - TB20 - TB25 - TB27 - TB30 - TB40
1 x	1/4" x 1/4"
1 x	3/8" x 10 mm
1 x	1/4"
8 x	T8 - T9 - T10 - T15 - T20 - T25 - T27 - T30
2 x	T6 - T7
11 x	T6 - T7 - T8 - T9 - T10 - T15 - T20 - T25 - T27 - T30 - T40
4 x	E6xE8 - E10xE12 - E14xE18 - E20xE24

2/3 SCS - SCREWDRIVER

SCS ERGOTORQUE*plus*® screwdriver set

- 2/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

		L mm	B mm	H mm	kg
712.0011	11 pcs	390,0	375,0	35,0	1,00

1 x	6 mm
6 x	3 - 4 - 5,5 - 6,5 - 8 - 10 mm
1 x	PH2
3 x	PH1 - PH2 - PH3

SCS ERGOTORQUE*plus*® screwdriver set

- 2/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

		L mm	B mm	H mm	kg
712.0012	12 pcs	390,0	375,0	35,0	1,02

5 x	3 - 4 - 6,5 - 8 - 10 mm
3 x	PH1 - PH2 - PH3
1 x	PZ1
1 x	6 mm
1 x	PH2
1 x	2,4 mm

SCS ERGOTORQUE*max*® screwdriver set

- 2/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

		L mm	B mm	H mm	kg
712.0013	13 pcs	390,0	375,0	35,0	3,94

5 x	3,5 - 5,5 - 7 - 8 - 10 mm
5 x	PH0 - PH1 - PH2 - PH3 - PH4
1 x	6 mm
1 x	PH2
1 x	1/4"

SCS ERGOTORQUE*plus*® screwdriver set

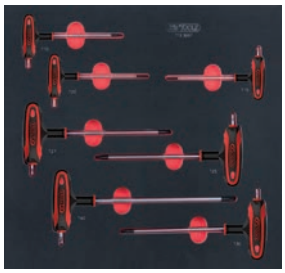
- 2/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

		L mm	B mm	H mm	kg
712.0020	20 pcs	390,0	375,0	35,0	1,30

1 x	6 mm
3 x	3 - 5,5 - 8 mm
1 x	PH2
3 x	PH1 - PH2 - PH3
1 x	PZ2
3 x	PZ1 - PZ2 - PZ3
1 x	2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm

SCS ERGOTORQUE*plus*® T-handle Torx tamperproof key wrench set

- 2/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

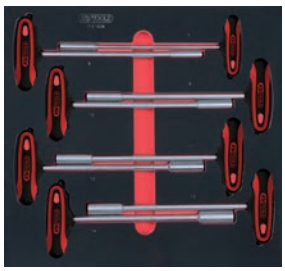


		L mm	B mm	H mm	kg
712.3007	7 pcs	390,0	375,0	35,0	0,84

7 x	TB10 - TB15 - TB20 - TB25 - TB27 - TB30 - TB40

SCS ERGOTORQUE*plus*® T-handle socket srewdriver set

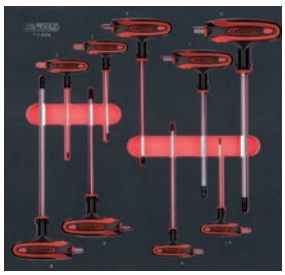
- 2/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam



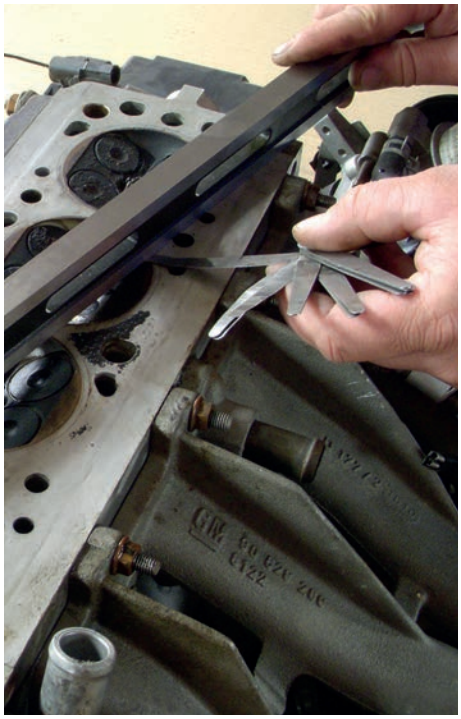
		L mm	B mm	H mm	kg
712.1008	8 pcs	390,0	375,0	35,0	1,50
8 x	7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 mm				

SCS ERGOTORQUE*plus*® T-handle hexagon socket key wrench set

- 2/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam



		L mm	B mm	H mm	kg
712.4009	9 pcs	390,0	375,0	35,0	1,55
9 x	2 - 2,5 - 3 - 4 - 5 - 6 - 7 - 8 - 10 mm				



2/3 SCS - WORKSHOP SUPPLIES

SCS chisel and measuring instrument set

- 2/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

		L mm	B mm	H mm	kg
712.0021	21 pcs	390,0	375,0	35,0	1,91
5 x	Ø 3 - 4 - 5 - 6 - 8 mm				
3 x	Ø 4 - 5 - 6 mm				
4 x	Ø 3 - 4 - 5 - 6 mm				
1 x	Ø 5 mm				
1 x	250 mm				
1 x	150 mm				
1 x	320 mm				
1 x	0 - 150 mm				
1 x	0,05 - 1,00 mm				
1 x	E1xT5 - E30xT70				
1 x	0,4 - 6,0 mm				
1 x	3 - 48 V				

2/3 SCS - EMPTY INSERTS

SCS Universal system insert for tool or small parts (empty)

- 2/3 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

	L mm	B mm	H mm	kg
712.0001	390,0	375,0	35,0	0,10

Anti slip mat

- Thickness 10 mm
- Uncut for self modelling

	L mm	B mm	kg
800.0920	10000,0	600,0	2,50

1/1 SCS - SPANNER - METRIC

SCS combination wrench set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

		L mm	B mm	H mm	kg
711.0026	26 pcs	390,0	564,0	35,0	5,50
26 x		6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 23 - 24 - 25 - 26 - 27 - 28 - 29 - 30 - 32 mm			

SCS CHROME*plus*® combination spanner set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

		L mm	B mm	H mm	kg
781.0026	26 pcs	390,0	564,0	35,0	5,50
26 x		6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 23 - 24 - 25 - 26 - 27 - 28 - 29 - 30 - 32 mm			

SCS spanner set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

		L mm	B mm	H mm	kg
711.1036	36 pcs	390,0	564,0	35,0	8,46
28 x		6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 23 - 24 - 26 - 27 - 28 - 29 - 30 - 32 - 34 - 36 - 38 mm			
8 x		10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 mm			

SCS spanner set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

		L mm	B mm	H mm	kg
711.2030	30 pcs	390,0	564,0	35,0	4,82
12 x		8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm			
7 x		6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17 - 18x19			
4 x		E6xE8 - E10xE12 - E14xE16 - E22xE24			
7 x		8x10 - 12x13 - 13x14 - 14x15 - 17x19 - 19x22 - 24x27			

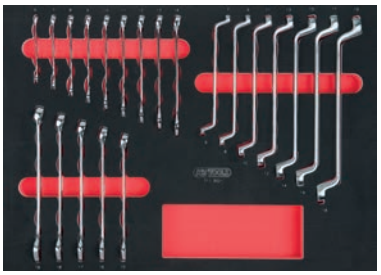
SCS CHROMEplus® spanner set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

		L mm	B mm	H mm	kg
781.2030	30 pcs	390,0	564,0	35,0	5,20
12 x		8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm			
7 x		6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17 - 18x19			
4 x		E6xE8 - E10xE12 - E14xE16 - E22xE24			
7 x		8x10 - 12x13 - 13x14 - 14x15 - 17x19 - 19x22 - 24x27			

SCS Spanner set

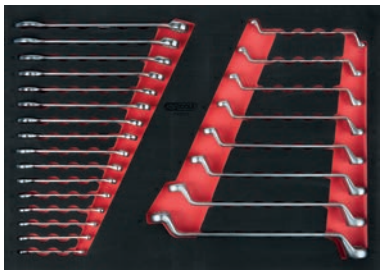
- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam



		L mm	B mm	H mm	kg
711.3021	21 pcs	390,0	564,0	35,0	2,14
14 x		6 – 7 – 8 – 9 – 10 – 11 – 12 – 13 – 14 – 15 – 16 – 17 – 18 – 19			
7 x		6x7 – 8x9 – 10x11 – 12x13 – 14x15 – 16x17 – 18x19			

Spanner set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality two-coloured foam



		L mm	B mm	H mm	kg
711.0027	24 pcs	390,0	564,0	35,0	2,76
16 x		6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 21 - 22 mm			
8 x		10x11 - 12x13 - 14x15 - 16x17 - 18x19 - 20x22 mm			

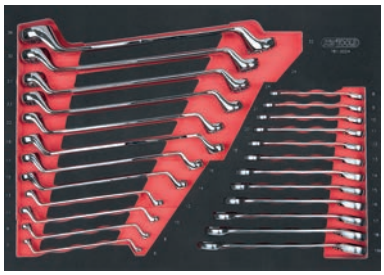
SCS Spanner set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

		L mm	B mm	H mm	kg
711.0024	24 pcs	390,0	564,0	35,0	4,70
12 x		6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17 - 18x19 - 20x22 - 21x23 - 24x27 - 27x30 - 30x32 mm			
12 x		8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm			

SCS CHROME*plus*® spanner set

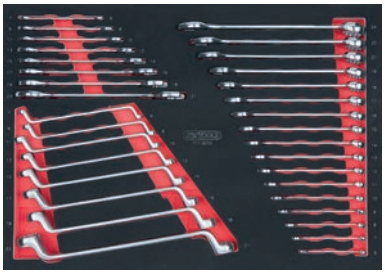
- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam



		L mm	B mm	H mm	kg
781.0024	24 pcs	390,0	564,0	35,0	4,67
12 x		6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17 - 17x19 - 18x19 - 20x22 - 21x23 - 24x27 - 30x32 mm			
12 x		8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm			

SCS spanner set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

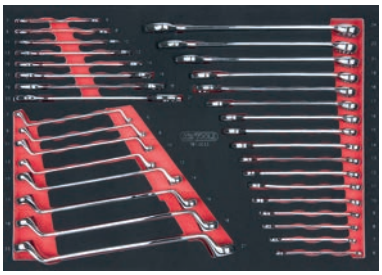


		L mm	B mm	H mm	kg
711.0033	33 pcs	390,0	564,0	35,0	4,05

17 x	6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 16 - 17 - 18 - 19 - 21 - 22 - 24 mm
8 x	6x7 - 8x9 - 10x11 - 12x13 - 14x15 16x17 -18x19 - 21x23 mm
8 x	6x7 - 8x9 - 10x11 - 12x13 - 14x15 16x17 -18 x19 - 21x23 mm

SCS CHROME*plus*® spanner set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

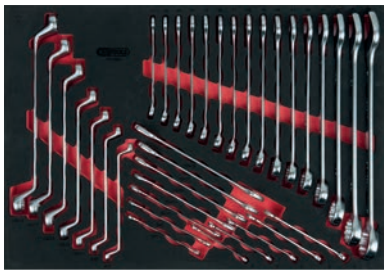


		L mm	B mm	H mm	kg
781.0033	33 pcs	390,0	564,0	35,0	4,72

17 x	6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 16 - 17 - 18 - 19 - 21 - 22 - 24 mm
8 x	6x7 - 8x9 - 10x11 - 12x13 - 14x15 16x17 -18x19 - 21x23 mm
8 x	6x7 - 8x9 - 10x11 - 12x13 - 14x15 16x17 -18 x19 - 21x23 mm

Spanner set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality two-coloured foam

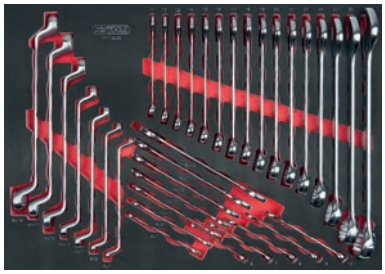


		L mm	B mm	H mm	kg
711.3035	35 pcs	390,0	564,0	35,0	5,08

21 x	6-7-8-9-10-11-12-13-14-15-16-17-18 19-20-21-22-24-27-30-32 mm
7 x	6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17 - 18x19
7 x	6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17 - 18x19

SCS spanner set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

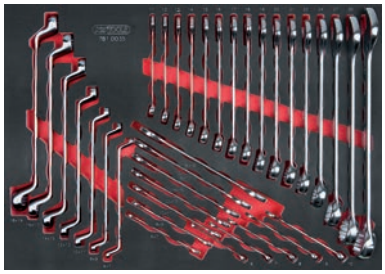


		L mm	B mm	H mm	kg
711.0035	35 pcs	390,0	564,0	35,0	4,05

21 x	6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 18 - 19 - 20 - 21 - 22 - 24 - 27 - 30 - 32 mm
7 x	6x7 - 8x9 - 10x11 - 12x13 - 14x15 16x17 -18x19 mm
7 x	6x7 - 8x9 - 10x11 - 12x13 - 14x15 16x17 -18 x19 mm

SCS CHROMEplus® spanner set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam



		L mm	B mm	H mm	kg
781.0035	35 pcs	390,0	564,0	35,0	6,34

21 x	6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 18 - 19 - 20 - 21 - 22 - 24 - 27 - 30 - 32 mm
7 x	6x7 - 8x9 - 10x11 - 12x13 - 14x15 16x17 -18x19 mm
7 x	6x7 - 8x9 - 10x11 - 12x13 - 14x15 16x17 -18 x19 mm

SCS Wrench set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

		L mm	B mm	H mm	kg
711.0036	36 pcs	390,0	564,0	35,0	4,86

17 x	6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 16 - 17 - 18 - 19 - 20 - 21 - 22 mm
10 x	6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17 18x19 - 20x22 - 24x27 - 30x32 mm
8 x	6x7 - 8x9 - 10x11 - 12x13 - 14x15 16x17 -18 x19 - 21x23 mm
1x	11 mm

SCS CHROME*plus*® wrench set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

		L mm	B mm	H mm	kg
781.0036	36 pcs	390,0	564,0	35,0	5,80

17 x	6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 16 - 17 - 18 - 19 - 20 - 21 - 22 mm
10 x	6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17 18x19 - 20x22 - 24x27 - 30x32 mm
8 x	6x7 - 8x9 - 10x11 - 12x13 - 14x15 16x17 -18 x19 - 21x23 mm
1x	11 mm

SCS Wrench set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

		L mm	B mm	H mm	kg
711.0041	41 pcs	390,0	564,0	35,0	6,80

20 x		6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 17 - 18 - 19 - 20 - 22 - 24 - 27 - 30 - 32 mm
10 x		6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17 18x19 - 20x22 - 21x23 - 24x27 mm
2 x		8x10 - 10x11 mm
9x		6x7 - 8x9 - 10x11 - 12x13 - 14x15 16x17 - 18x19 - 20x22 - 21x23 mm

SCS CHROME*plus*® wrench set

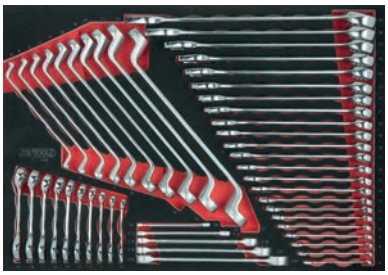
- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

		L mm	B mm	H mm	kg
781.0041	41 pcs	390,0	564,0	35,0	7,81

20 x		6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 17 - 18 - 19 - 20 - 22 - 24 - 27 - 30 - 32 mm
10 x		6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17 18x19 - 20x22 - 21x23 - 24x27 mm
2 x		8x10 - 10x11 mm
9x		6x7 - 8x9 - 10x11 - 12x13 - 14x15 16x17 - 18x19 - 20x22 - 21x23 mm

SCS Spanner set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

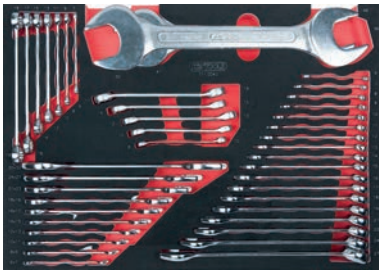


		L mm	B mm	H mm	kg
711.1048	48 pcs	390,0	564,0	35,0	7,42

23 x		6-7-8-9-10-11-12-13-14-15-16-17-18 19-20-21-22-23-24-25-27-30-32 mm
10 x		6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17 - 18x19 - 20x22 - 21x23 - 24x27 mm
10 x		10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 18 - 19 mm
5 x		E6xE8 - E10xE12 - E14xE18 E16xE22 - E20xE24

SCS spanner set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam



		L mm	B mm	H mm	kg
711.0042	42 pcs	390,0	564,0	35,0	8,50

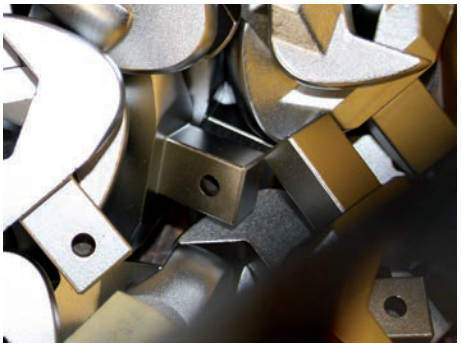
18 x		6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 16 - 17 - 18 - 19 - 21 - 22 - 24 - 27 mm
12 x		6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17 - 18x19 21x23 - 24x27 - 30x32 - 36x41 - 46x50 mm
5 x		8x10 - 10x11 - 12x13 - 14x15 - 17x19 mm
7 x		6x7 - 8x9 - 10x11 - 12x13 - 14x15 16x17 - 18x19 mm

SCS spanner set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

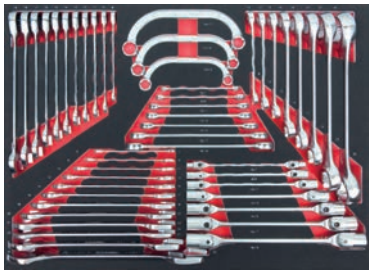
		L mm	B mm	H mm	kg
711.0047	47 pcs	390,0	564,0	35,0	8,53

7 x		6x7 - 8x9 - 10x11 - 12x13 - 14x15 16x17 - 18x19 mm
12 x		8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 17 - 18 - 19 mm
10 x		10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 18 - 19 mm
8 x		8x10 - 10x11 - 12x13 - 14x15 - 17x19 - 19x21 - 24x27 - 30x32 mm
7 x		6x7 - 8x9 - 10x11 - 12x13 - 14x15 16x17 - 18x19 mm
3 x		10x12 - 11x13 - 14x17 mm



SCS spanner set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

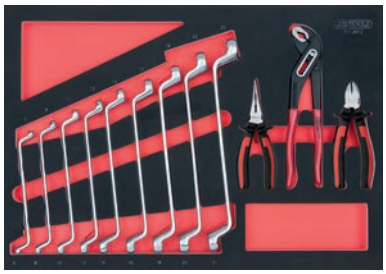


		L mm	B mm	H mm	kg
711.0048	48 pcs	390,0	564,0	35,0	7,52

7 x		6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17 - 18x19
11 x		8 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19
8 x		8x10 - 10x12 - 12x13 - 14x15 - 17x19 - 19x21 - 24x27 - 30x32
3 x		10x12 - 11x13 - 14x17
12 x		6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17 - 18x19 - 20x22 - 21x23 - 22x24 - 24x27 - 30x32
7 x		6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17 - 18x19

SCS Spanner and pliers set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

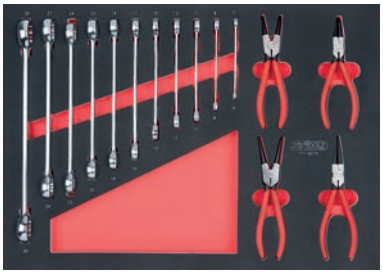


		L mm	B mm	H mm	kg
711.2012	12 pcs	390,0	564,0	35,0	2,33

9 x		6x7 - 8x9 - 10x11 - 12x13 - 14x15 16x17 - 18x19 - 20x22 - 21x23
1 x		160 mm
1 x		160 mm
1 x		240 mm

SCS double ring spanner and pliers set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam



		L mm	B mm	H mm	kg
711.4015	15 pcs	390,0	564,0	35,0	2,22

11 x	6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17 - 18x19 - 20x22 - 21x23 - 24x27 - 30x32 mm
1 x	160 mm
1 x	160 mm
1 x	160 mm
1 x	160 mm

SCS double spanner and file set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

		L mm	B mm	H mm	kg
711.3015	15 pcs	390,0	564,0	35,0	3,73

11 x	6 x 7 - 8 x 9 - 10 x 11 - 12 x 13 - 14 x 15 - 16 x 17 18 x 19 - 20 x 22 - 24 x 27 - 30 x 32 - 36 x 41
1 x	200 mm
1 x	200 mm
1 x	200 mm
1 x	200 mm

SCS combination wrench and screwdriver set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

		L mm	B mm	H mm	kg
711.5027	27 pcs	390,0	564,0	35,0	2,66

17 x	6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 21 - 22 - 24 mm
5 x	3 - 4 - 6,5 - 8 - 10 mm
2 x	PH1 - PH2
1 x	6 mm
1 x	PH2
1 x	2,4 mm

SCS CHROME*plus*® combination wrench and screwdriver set

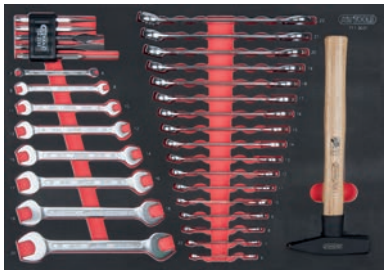
- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

		L mm	B mm	H mm	kg
781.2029	29 pcs	390,0	564,0	35,0	4,11

21 x	6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 18 - 19 - 20 - 21 - 22 - 24 - 27 - 30 - 32 mm
6 x	3x155 - 4x155 - 4x180 - 5,5x230 6,5x230 - 8x265 mm
2 x	PH1 - PH2

SCS Spanner and hammer set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam



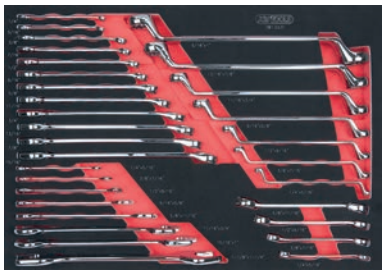
		L mm	B mm	H mm	kg
711.3031	31 pcs	390,0	564,0	35,0	3,71

17 x	6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 mm
8 x	6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17 - 18x19 - 20x22 mm
1 x	
1 x	500 g

1/1 SCS - SPANNER - IMPERIAL

SCS CHROME*plus*® wrench set inch

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam



		L mm	B mm	H mm	kg
781.0031	31 pcs	390,0	564,0	35,0	5,56

4 x	1/4" x 5/16" - 3/8" x 7/16" - 1/2" x 9/16" - 5/8" x 11/16"
12 x	1/4" - 5/16" - 3/8" - 7/16" - 1/2" - 9/16" 5/8" - 11/16" - 3/4" - 13/16" - 7/8" - 15/16"
7 x	1/4"x5/16" - 3/8"x7/16" - 1/2"x9/16" - 9/16"x5/8" 11/16"x3/4" - 13/16"x7/8" - 15/16"x1"
8 x	1/4"x5/16" - 3/8"x7/16" - 1/2"x9/16" - 9/16"x5/8" - 5/8"x11/16" - 11/16"x3/4" - 15/16"x1" - 1.1/8"x1.1/4"

SCS spanner and hammer set, imperial

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

		L mm	B mm	H mm	kg
781.4031	31 pcs	390,0	564,0	35,0	7,40
16 x		1/4" - 5/16" - 3/8" - 7/16" - 1/2" - 9/16" - 5/8" - 11/16" 3/4" - 13/16" - 7/8" - 5/16" - 1" - 1.1/16" - 1.1/8" - 1.1/4"			
9 x		1/4" x 5/16" - 3/8" x 7/16" - 1/2" x 9/16" - 9/16" x 5/8" - 5/8" x 11/16" - 11/16" x 3/4" - 3/4" x 7/8" - 15/16" x 1" - 1.1/8" x 1.1/4"			
1 x					
1 x		500 g			

SCS combination wrench set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

		L mm	B mm	H mm	kg
711.3033	33 pcs	390,0	564,0	35,0	5,77
8 x		5/16" - 3/8" - 7/16" - 1/2" - 9/16" - 5/8" 11/16" - 3/4"			
25 x		6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 20 - 21 - 22 - 23 - 24 - 25 - 26 - 27 - 28 - 29 - 30 mm			

SCS CHROME*plus*® combination spanner set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

		L mm	B mm	H mm	kg
781.3033	33 pcs	390,0	564,0	35,0	7,24
8 x		5/16" - 3/8" - 7/16" - 1/2" - 9/16" - 5/8" 11/16" - 3/4"			
25 x		6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 20 - 21 - 22 - 23 - 24 - 25 - 26 - 27 - 28 - 29 - 30 mm			

1/1 SCS - SOCKET WRENCH 1/4" - METRIC

SCS Socket set

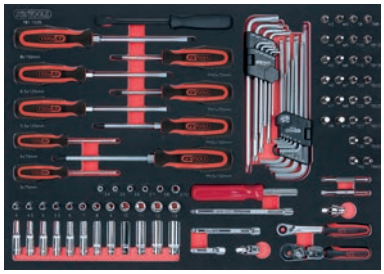
- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

1/4"

		L mm	B mm	H mm	kg
711.1095	95 pcs	390,0	564,0	35,0	3,72
12 x		1/4": 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 11 - 12 - 13 mm			
12 x		1/4": 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 11 - 12 - 13 mm			
6 x		1/4": E4 - E5 - E6 - E7 - E8 - E10			
6 x		1/4": 3 - 4 - 5 - 6 - 7 - 8 mm			
8 x		1/4": T8 - T10 - T15 - T20 - T25 - T27 T30 - T40			
8 x		1/4": TB8 - TB10 - TB15 - TB20 TB25 - TB27 - TB30 - TB40			
6 x		1/4": M4 - M5 - M6 - M7 - M8 - M10			
3 x		1/4": 50 - 100 - 150 mm			
1 x		3,0 - 5,5 - PH1 - PH2			
1 x		1/4"			
1 x		1/4"			
1 x		1/4"			
1 x		1/4"			
5 x		3 - 4 - 5,5 - 6,5 - 8 mm			
4 x		PH0 - PH1 - PH2 - PH3			
1 x		TS10 - TS15 - TS20 - TS25 - TS27 TS30 - TS40 - TS45 - TS50			
1 x		1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 7 - 8 - 10 mm			
1 x		11 x 115 mm			

SCS CHROMEplus® socket set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam



1/4"

		L mm	B mm	H mm	kg
781.1095	95 pcs	390,0	564,0	35,0	3,90
12 x		1/4": 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 11 - 12 - 13 mm			
12 x		1/4": 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 11 - 12 - 13 mm			
6 x		1/4": E4 - E5 - E6 - E7 - E8 - E10			
6 x		1/4": 3 - 4 - 5 - 6 - 7 - 8 mm			
8 x		1/4": T8 - T10 - T15 - T20 - T25 - T27 T30 - T40			
8 x		1/4": TB8 - TB10 - TB15 - TB20 TB25 - TB27 - TB30 - TB40			
6 x		1/4": M4 - M5 - M6 - M7 - M8 - M10			
3 x		1/4": 50 - 100 - 150 mm			
1 x		3,0 - 5,5 - PH1 - PH2			
1 x		1/4"			
1 x		1/4"			
1 x		1/4"			
1 x		1/4"			
5 x		3 - 4 - 5,5 - 6,5 - 8 mm			
4 x		PH0 - PH1 - PH2 - PH3			
1 x		TS10 - TS15 - TS20 - TS25 - TS27 TS30 - TS40 - TS45 - TS50			
1 x		1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 7 - 8 - 10 mm			
1 x		11 x 115 mm			

1/1 SCS - SOCKET WRENCH 1/2" - METRIC

SCS Socket set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

1/2"

		L mm	B mm	H mm	kg
711.0061	61 pcs	390,0	564,0	35,0	8,52
19 x		1/2": 10-11-12-13-14-15-16-17-18-19 20-21-22-24-26-27-28-30-32 mm			
1 x		3/4": 32 mm			
2 x		1/2": 10 - 13 mm			
2 x		1/2": 17 - 19 mm			
4 x		1/2": 5 - 6 - 8 - 10 mm			
6 x		1/2": 5 - 6 - 7 - 8 - 9 - 10 mm			
5 x		1/2": T25 - T45 - T50 - T55 - T60			
1 x		1/2": T45			
5 x		1/2": M6 - M8 - M10 - M12 - M14			
4 x		1/2": M8 - M10 - M12 - M14			
1 x		1/2": M16			
1 x		1/2": M9			
1 x		3/4": M18			
2 x		1/2": 125 - 250 mm			
3 x		1/2": 50 - 125 - 250 mm			
1 x		1/2": 250 mm			
1 x		3/8"F x 1/2"M			
1 x		1/2"			
1 x		1/2"			

SCS CHROMEplus® socket set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

1/2"

		L mm	B mm	H mm	kg
781.0061	61 pcs	390,0	564,0	35,0	8,40
19 x		1/2": 10-11-12-13-14-15-16-17-18-19 20-21-22-24-26-27-28-30-32 mm			
1 x		3/4": 32 mm			
2 x		1/2": 10 - 13 mm			
2 x		1/2": 17 - 19 mm			
4 x		1/2": 5 - 6 - 8 - 10 mm			
6 x		1/2": 5 - 6 - 7 - 8 - 9 - 10 mm			
5 x		1/2": T25 - T45 - T50 - T55 - T60			
1 x		1/2": T45			
5 x		1/2": M6 - M8 - M10 - M12 - M14			
4 x		1/2": M8 - M10 - M12 - M14			
1 x		1/2": M16			
1 x		1/2": M9			
1 x		3/4": M18			
2 x		1/2": 125 - 250 mm			
3 x		1/2": 50 - 125 - 250 mm			
1 x		1/2": 250 mm			
1 x		3/8"F x 1/2"M			
1 x		1/2"			
1 x		1/2"			

SCS Socket set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

1/2"

		L mm	B mm	H mm	kg
711.0066	66 pcs	390,0	564,0	35,0	8,73
19 x		1/2": 10-11-12-13-14-15-16-17-18-19 20-21-22-23-26-27-28-30-32 mm			
9 x		1/2": E10 - E11 - E12 - E14 - E16 - E18 - E20 - E22 - E24			
2 x		1/2": 17 - 19 mm			
9 x		1/2": 6 - 7 - 8 - 9 - 10 - 12 - 14 - 17 19 mm			
9 x		1/2": T20 - T25 - T27 - T30 - T40 - T45 T50 - T55 - T60			
4 x		1/2": TB30 - TB40 - TB45 - TB50			
2 x		1/2": 125 - 250 mm			
2 x		1/2": 50 - 250 mm			
1 x		1/2": 250 mm			
2 x		3/8"F x 1/2"M - 1/2"F x 3/8"M			
1 x		1/2"			
1 x		1/2"			
1 x		1/2": 380 mm			
4 x		E6xE8 - E10xE12 - E14xE16 E22xE24			

SCS CHROMEplus® socket set

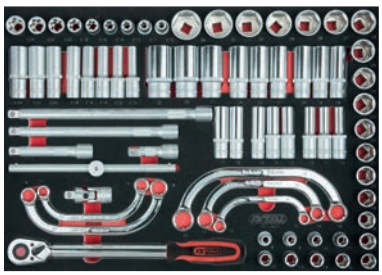
- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

1/2"

		L mm	B mm	H mm	kg
781.0066	66 pcs	390,0	564,0	35,0	8,70
19 x		1/2": 10-11-12-13-14-15-16-17-18-19 20-21-22-23-26-27-28-30-32 mm			
9 x		1/2": E10 - E11 - E12 - E14 - E16 - E18 - E20 - E22 - E24			
2 x		1/2": 17 - 19 mm			
9 x		1/2": 6 - 7 - 8 - 9 - 10 - 12 - 14 - 17 19 mm			
9 x		1/2": T20 - T25 - T27 - T30 - T40 - T45 T50 - T55 - T60			
4 x		1/2": TB30 - TB40 - TB45 - TB50			
2 x		1/2": 125 - 250 mm			
2 x		1/2": 50 - 250 mm			
1 x		1/2": 250 mm			
2 x		3/8"F x 1/2"M - 1/2"F x 3/8"M			
1 x		1/2"			
1 x		1/2"			
1 x		1/2": 380 mm			
4 x		E6xE8 - E10xE12 - E14xE16 E22xE24			

SCS Socket set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

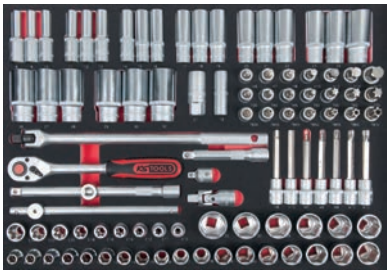


1/2"

		L mm	B mm	H mm	kg
711.0071	71 pcs	390,0	564,0	35,0	10,90
25 x		8-9-10-11-12-13-14-15-16-17-18-19-20-21 22-23-24-25-26-27-28-29-30-32-34mm			
17 x		10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 19 - 20 - 21 - 22 - 24 - 27 - 30 - 32 mm			
9 x		E10 - E11 - E12 - E14 - E16 - E18 E20 - E22 - E24			
8 x		E10 - E12 - E14 - E16 - E18 - E20 E22 - E24			
4 x		1/2“: 75 - 125 - 250 - 305 mm			
1 x		1/2“: 250 mm			
1 x		1/2“			
1 x		1/2“: 380 - 500 mm			
5 x		10x12 - 11x13 - 14x17 - 16x18 - 19x22 mm			

SCS Socket set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam



1/2"

		L mm	B mm	H mm	kg
711.0095	95 pcs	390,0	564,0	35,0	12,94
24 x		1/2": 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 23 - 24 - 25 - 26 - 27 - 28 - 29 - 30 - 32			
24 x		1/2": 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 23 - 24 - 25 - 26 - 27 - 28 - 29 - 30 - 32			
2 x		1/2“: 16 - 21			
9 x		1/2“: E10 - E11 - E12 - E14 - E16 - E18 - E20 - E22 - E24			
7 x		1/2“: 6 - 7 - 8 - 10 - 12 - 14 - 17 mm			
7 x		1/2“: T30 - T40 - T45 - T50 - T55 - T60 - T70			
7 x		1/2“: TB30 - TB40 - TB45 - TB50 - TB55 - TB60 - TB70			
2 x		1/2“: 8 - 10 mm			
5 x		1/2“: M5 - M6 - M8 - M10 - M12			
1 x		1/2“			
1 x		1/2“ 370 mm			
2 x		1/2“: 125 - 250 mm			
1 x		1/2“			
1 x		1/2“			
1 x		1/2“			
1 x		1/2“F x 3/8“M			
1 x		1/2“F x 3/4“M			

SCS Socket set

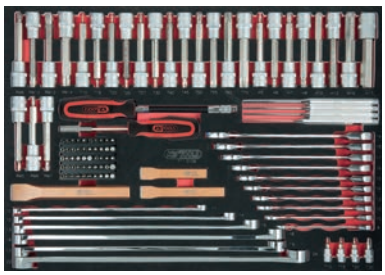
- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

1/2"

		L mm	B mm	H mm	kg
711.0053	53 pcs	390,0	564,0	35,0	6,75
1 x		2,0 - 2,5 - 3,0 - 4,0 - 5,0 - 6,0 - 8,0 - 10,0 mm			
1 x		T10 - T15 - T20 - T25 - T30 - T40 - T45 - T50			
2 x		10 x 11 - 12 x 13 mm			
5 x		T15 x T20 - T25 x T27 - T30 x T40 - T45 x T50 - T55 x T60			
4 x		E6 x E8 - E10 x E12 - E14 x E16 - E22 x E24			
3 x		3 x 4 - 5 x 6 - 8 x 10 mm			
5 x		M6 - M8 - M9 - M12 - M14			
9 x		TB20 - TB25 - TB27 - TB30 - TB40 - TB45 - TB50 - TB55 - TB60			
9 x		M5 - M6 - M7 - M8 - M9 - M10 - M12 M13 - M14			

SCS Chisels, spanners, bit socket set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam



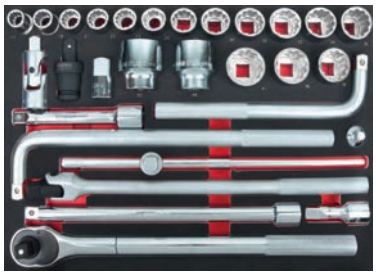
1/2"

		L mm	B mm	H mm	kg
711.0106	106 pcs	390,0	564,0	35,0	7,98
4 x		3/8“: T10 - T15 - T20 - T30			
12 x		1/2“: T10 - T15 - T20 - T25 - T27 - T30 - T40 - T45 - T50 - T55 - T60 - T70			
8 x		1/2“: 5 - 6 - 7 - 8 - 10 - 12 - 14 - 17 mm			
7 x		1/2“: M5 - M6 - M7 - M8 - M10 - M12 - M14			
6 x		10x11 - 12x14 - 13x15 - 16x18 - 17x19 - 22x24 mm			
10 x		8 - 10 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm			
1 x		1/4“			
1 x		1/4“			
3 x		18x100 - 18x125 - 24x175 mm			
4 x		Ø 3 - 4 - 5 - 6 mm			
5 x		1/4“: PH0 - PH1 - 2xPH2 - PH3			
5 x		1/4“: PZ0 - PZ1 - 2xPZ2 - PZ3			
9 x		1/4“: T8 - T9 - T10 - T15 - T20 - T25 T27 - T30 - T40			
9 x		1/4“: TB8 - TB9 - TB10 - TB15 - TB20 TB25 - TB27 - TB30 - TB40			
7 x		1/4“: 2 - 3 - 4 - 5 - 6 - 7 - 8 mm			
4 x		1/4“: 4 - 5 - 6 - 8 mm			
6 x		1/4“: 3 - 4 - 4,5 - 5,5 - 6 - 6,5 mm			
4 x		1/4“: #0 - #1 - #2 - #3			
1 x		1/4“ x 1/4“			

1/1 SCS - SOCKET WRENCH 3/4” - METRIC

SCS Socket set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam



3/4"

		L mm	B mm	H mm	kg
711.0029	29 pcs	390,0	564,0	35,0	19,00
17 x		3/4“: 17 - 19 - 21 - 22 - 23 - 24 - 27 - 30 - 32 - 33 - 34 - 35 - 36 - 38 - 41 - 46 - 50			
3 x		3/4“: 100 - 200 - 400 mm			
1 x		3/4“: 450 mm			
1 x		3/4“: 500 mm			
1 x		3/4“: 500 mm			
2 x		3/4“: 320 - 480 mm			
1 x		3/4“			
1 x		3/4“			
1 x		3/4“F x 1/2“M			
1 x		3/4“F x 1“M			

SCS socket set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

3/4"

		L mm	B mm	H mm	kg
711.1031	31 pcs	390,0	564,0	35,0	15,93
14 x		3/4": 19 - 21 - 22 - 23 - 24 - 26 - 27 - 30 - 32 - 36 - 38 - 41 - 46 - 50 mm			
14 x		3/4": 3/4" - 7/8" - 15/16" - 1" - 1.1/16" - 1.1/8" - 1.3/16" 1.1/4" - 1.3/8" - 1.7/16" - 1.1/2" - 1.5/8" - 1.3/4" - 2"			
1 x		3/4": 400 mm			
1 x		3/4": 450 mm			
1 x		3/4": 500 mm			

SCS impact socket wrench set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

3/4"

		L mm	B mm	H mm	kg
711.5031	31 pcs	390,0	564,0	35,0	18,76
15 x		17 - 18 - 19 - 20 - 21 - 22 - 23 - 24 - 25 26 - 27 - 28 - 29 - 30 - 32 mm			
10 x		17 - 18 - 19 - 21 - 22 - 24 - 27 - 28 30 - 32 mm			
1 x		3/4"			
4 x		100 - 150 - 200 - 250 mm			
1 x		3/4": 450 mm			

SCS impact socket set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

3/4"

		L mm	B mm	H mm	kg
711.2033	33 pcs	390,0	564,0	35,0	18,95
15 x		19 - 21 - 22 - 23 - 24 - 27 - 28 - 30 - 32 33 - 34 - 36 - 38 - 41 - 46 mm			
14 x		19 - 21 - 22 - 23 - 24 - 27 - 30 - 32 - 33 34 - 36 - 38 - 41 - 46 mm			
2 x		3/4"F x 1/2"M - 3/4"F x 1"M			
1 x		1/2"			
1 x		150 mm			

SCS impact socket wrench set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

3/4"

		L mm	B mm	H mm	kg
711.1035	35 pcs	390,0	564,0	35,0	19,42
16 x		3/4": 17 - 19 - 21 - 22 - 23 - 24 - 27 - 28 - 30 - 32 - 33 - 34 - 36 - 38 - 41 - 46 mm			
14 x		3/4": 19 - 21 - 22 - 23 - 24 - 27 - 30 - 32 - 33 - 34 - 36 - 38 - 41 - 46 mm			
3 x		3/4": 100 - 200 mm			
1 x		3/4"			
1 x		3/4"F x 1/2"M			
1 x		3/4"F x 1"M			

1/1 SCS - SOCKET WRENCH 1/4" + 3/8" - METRIC

SCS Socket set

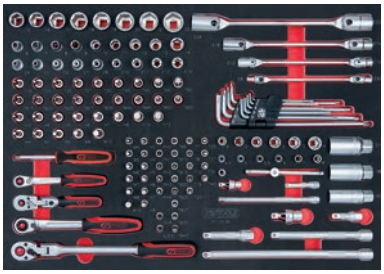
- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

1/4" 3/8"

		L mm	B mm	H mm	kg
711.0118	118 pcs	390,0	564,0	35,0	6,16
12 x		1/4": 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm			
17 x		3/8": 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 mm			
6 x		1/4": E4 - E5 - E6 - E7 - E8 - E10			
8 x		3/8": E8 - E10 - E11 - E12 - E14 - E16 - E18 - E20			
7 x		1/4": 2 - 3 - 4 - 5 - 6 - 7 - 8 mm			
8 x		1/4": T8 - T10 - T15 - T20 - T25 - T27 - T30 - T40			
8 x		1/4": TB8 - TB10 - TB15 - TB20 - TB25 - TB27 - TB30 - TB40			
7 x		1/4": TS10 - TS15 - TS20 - TS25 - TS27 - TS30 - TS40			
2 x		1/4": 50 - 100 mm			
2 x		3/8": 75 - 150 mm			
1 x		1/4"			
1 x		3/8"			
1 x		1/4": 145 mm			
1 x		3/8": 210 mm			
1 x		60 mm			
1 x		150 mm			
1 x		1/4" x 150 mm			
2 x		1/4" - 3/8"			
1 x		1/4"F x 3/8"M			
1 x		3/8"F x 1/4"M			
1 x		150 - 670 mm			
1 x		1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10			
1 x		TS10 - TS15 - TS20 - TS25 - TS27 - TS30 - TS40 - TS45 - TS50			
4 x		3,5 - 5,5 - 7 - 8 mm			
5 x		PH0 - PH1 - PH2 - PH3 - PH4			

SCS Socket set

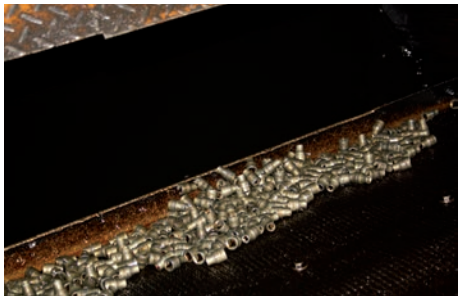
- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam



1/4" 3/8"

		L mm	B mm	H mm	kg
711.0136	136 pcs	390,0	564,0	35,0	6,70

12 x	1/4": 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 12 - 13 - 14 mm
17 x	3/8": 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 mm
9 x	3/8": E4 - E5 - E6 - E7 - E8 - E10 E11 - E12 - E14
3 x	3/8": 16 - 18 - 21 mm
2 x	1/4": 4 - 5,5 mm
5 x	1/4": PH0 - PH1 - PH2 - PH3 - PH4
6 x	1/4": 3 - 4 - 5 - 6 - 7 - 8 mm
9 x	1/4": T7 - T8 - T10 - T15 - T20 - T25 T27 - T30 - T40
8 x	1/4": TB9 - TB10 - TB15 - TB20 TB25 - TB27 - TB30 - TB40
6 x	1/4": M4 - M5 - M6 - M7 - M8 - M10
8 x	3/8": 3 - 4 - 5 - 6 - 7 - 8 - 10 - 12 mm
9 x	3/8": T15 - T20 - T25 - T27 - T30 - T40 T45 - T50 - T55
9 x	3/8": TB15 - TB20 - TB25 - TB27 TB30 - TB40 - TB45 - TB50 - TB55
5 x	3/8": M4 - M5 - M6 - M8 - M10
2 x	1/4": 50 - 150 mm
4 x	3/8": 50 - 75 - 150 - 250 mm
1 x	1/4"
1 x	1/4"
1 x	1/4"
2 x	1/4" - 3/8"
2 x	1/4" - 3/8"
2 x	1/4" - 3/8"
4 x	E6xE8 - E10xE12 - E14xE16 E22xE24
1 x	TS10 - TS15 - TS20 - TS25 - TS27 TS30 - TS40 - TS45 - TS50



SCS CHROMEplus® socket set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

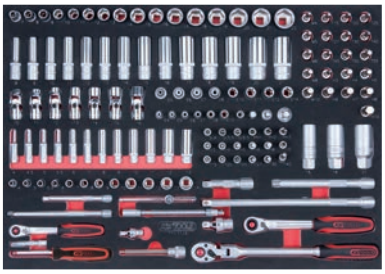
1/4" 3/8"

		L mm	B mm	H mm	kg
781.0136	136 pcs	390,0	564,0	35,0	6,58

12 x	1/4": 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 12 - 13 - 14 mm
17 x	3/8": 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 mm
9 x	3/8": E4 - E5 - E6 - E7 - E8 - E10 E11 - E12 - E14
3 x	3/8": 16 - 18 - 21 mm
2 x	1/4": 4 - 5,5 mm
5 x	1/4": PH0 - PH1 - PH2 - PH3 - PH4
6 x	1/4": 3 - 4 - 5 - 6 - 7 - 8 mm
9 x	1/4": T7 - T8 - T10 - T15 - T20 - T25 T27 - T30 - T40
8 x	1/4": TB9 - TB10 - TB15 - TB20 TB25 - TB27 - TB30 - TB40
6 x	1/4": M4 - M5 - M6 - M7 - M8 - M10
8 x	3/8": 3 - 4 - 5 - 6 - 7 - 8 - 10 - 12 mm
9 x	3/8": T15 - T20 - T25 - T27 - T30 - T40 T45 - T50 - T55
9 x	3/8": TB15 - TB20 - TB25 - TB27 TB30 - TB40 - TB45 - TB50 - TB55
5 x	3/8": M4 - M5 - M6 - M8 - M10
2 x	1/4": 50 - 150 mm
4 x	3/8": 50 - 75 - 150 - 250 mm
1 x	1/4"
1 x	1/4"
1 x	1/4"
2 x	1/4" - 3/8"
2 x	1/4" - 3/8"
2 x	1/4" - 3/8"
4 x	E6xE8 - E10xE12 - E14xE16 E22xE24
1 x	TS10 - TS15 - TS20 - TS25 - TS27 TS30 - TS40 - TS45 - TS50

SCS Socket set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam



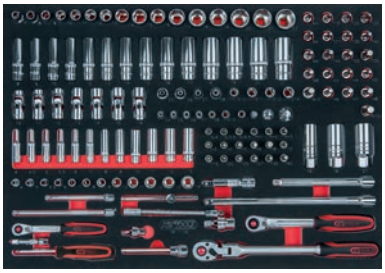
1/4" 3/8"

		L mm	B mm	H mm	kg
711.1136	136 pcs	390,0	564,0	35,0	7,60

12 x	1/4": 4 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 12 - 13 - 14 mm
16 x	3/8": 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 16 - 17 - 18 - 19 - 20 - 21 - 22 mm
12 x	1/4": 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 11 - 12 - 13 mm
14 x	3/8": 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 17 - 18 - 19 - 20 - 21 mm
6 x	1/4": E4 - E5 - E6 - E7 - E8 - E10
8 x	3/8": E5 - E6 - E7 - E8 - E10 - E11 E12 - E14
3 x	3/8": 16 - 18 - 21 mm
7 x	3/8": 10 - 11 - 12 - 13 - 14 - 15 - 16 mm
3 x	1/4": 4 - 5,5 - 6,5 mm
3 x	1/4": PH1 - PH2 - PH3
5 x	1/4": 3 - 4 - 5 - 6 - 8 mm
7 x	1/4": T10 - T15 - T20 - T25 - T27 - T30 - T40
7 x	3/8": 3 - 4 - 5 - 6 - 7 - 8 - 10 mm
9 x	3/8": T15 - T20 - T25 - T27 - T30 - T40 T45 - T50 - T55
1 x	3/8": T25
5 x	3/8": M4 - M5 - M6 - M8 - M10
3 x	1/4": 50 - 100 - 150 mm
3 x	3/8": 75 - 150 - 250 mm
1 x	1/4": 150 mm
1 x	1/4"
1 x	1/4"
1 x	1/4"
3 x	1/4"Fx3/8"M - 3/8"Fx1/4"M 1/2"Fx3/8"M
2 x	1/4" - 3/8"
2 x	1/4" - 3/8"
1 x	3/8"

SCS CHROMEplus® socket set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam



1/4" 3/8"

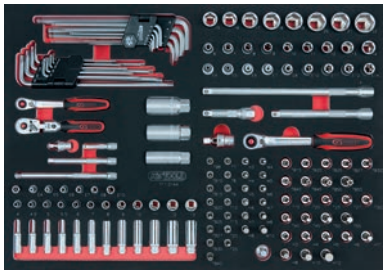
		L mm	B mm	H mm	kg
781.1136	136 pcs	390,0	564,0	35,0	7,63

12 x	1/4": 4 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 12 - 13 - 14 mm
16 x	3/8": 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 16 - 17 - 18 - 19 - 20 - 21 - 22 mm
12 x	1/4": 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 11 - 12 - 13 mm
14 x	3/8": 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 17 - 18 - 19 - 20 - 21 mm
6 x	1/4": E4 - E5 - E6 - E7 - E8 - E10
8 x	3/8": E5 - E6 - E7 - E8 - E10 - E11 E12 - E14
3 x	3/8": 16 - 18 - 21 mm
7 x	3/8": 10 - 11 - 12 - 13 - 14 - 15 - 16 mm
3 x	1/4": 4 - 5,5 - 6,5 mm
3 x	1/4": PH1 - PH2 - PH3
5 x	1/4": 3 - 4 - 5 - 6 - 8 mm
7 x	1/4": T10 - T15 - T20 - T25 - T27 - T30 - T40
7 x	3/8": 3 - 4 - 5 - 6 - 7 - 8 - 10 mm
9 x	3/8": T15 - T20 - T25 - T27 - T30 - T40 T45 - T50 - T55
1 x	3/8": T25
5 x	3/8": M4 - M5 - M6 - M8 - M10
3 x	1/4": 50 - 100 - 150 mm
3 x	3/8": 75 - 150 - 250 mm
1 x	1/4": 150 mm
1 x	1/4"
1 x	1/4"
1 x	1/4"
3 x	1/4"Fx3/8"M - 3/8"Fx1/4"M 1/2"Fx3/8"M
2 x	1/4" - 3/8"
2 x	1/4" - 3/8"
1 x	3/8"

Visit our homepage: www.kstools.com

SCS Socket set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam



1/4" 3/8"

		L mm	B mm	H mm	kg
711.0144	144 pcs	390,0	564,0	35,0	5,82

12 x	1/4": 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 11 - 12 - 13 mm
17 x	3/8": 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 mm
12 x	1/4": 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 11 - 12 - 13 mm
6 x	1/4": E4 - E5 - E6 - E7 - E8 - E10
9 x	3/8": E4 - E5 - E6 - E7 - E8 - E10 E11 - E12 - E14
3 x	3/8": 16 - 18 - 21 mm
6 x	1/4": 3 - 4 - 5 - 6 - 7 - 8 mm
7 x	1/4": T7 - T8 - T9 - T10 - T15 - T20 - T25
8 x	1/4": TB8 - TB10 - TB15 - TB20 - TB25 TB27 - TB30 - TB40
6 x	1/4": M4 - M5 - M6 - M7 - M8 - M10
8 x	3/8": 3 - 4 - 5 - 6 - 7 - 8 - 10 - 12 mm
9 x	3/8": T15 - T20 - T25 - T27 - T30 - T40 T45 - T50 - T55
9 x	3/8": TB15 - TB20 - TB25 - TB27 TB30 - TB40 - TB45 - TB50 - TB55
3 x	1/4": 50 - 100 - 150 mm
3 x	3/8": 75 - 150 - 250 mm
1 x	1/4"
1 x	1/2"Fx3/8"M
2 x	1/4" - 3/8"
2 x	1/4" - 3/8"
1 x	1/4"
1 x	TS10 - TS15 - TS20 - TS25 - TS27 TS30 - TS40 - TS45 - TS50
1 x	1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 7 - 8 - 10 mm

SCS CHROMEplus® socket set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

1/4" 3/8"

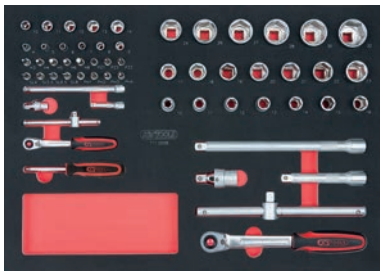
		L mm	B mm	H mm	kg
781.0144	144 pcs	390,0	564,0	35,0	6,50

12 x	1/4": 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 11 - 12 - 13 mm
17 x	3/8": 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 mm
12 x	1/4": 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 11 - 12 - 13 mm
6 x	1/4": E4 - E5 - E6 - E7 - E8 - E10
9 x	3/8": E4 - E5 - E6 - E7 - E8 - E10 E11 - E12 - E14
3 x	3/8": 16 - 18 - 21 mm
6 x	1/4": 3 - 4 - 5 - 6 - 7 - 8 mm
7 x	1/4": T7 - T8 - T9 - T10 - T15 - T20 - T25
8 x	1/4": TB8 - TB10 - TB15 - TB20 - TB25 TB27 - TB30 - TB40
6 x	1/4": M4 - M5 - M6 - M7 - M8 - M10
8 x	3/8": 3 - 4 - 5 - 6 - 7 - 8 - 10 - 12 mm
9 x	3/8": T15 - T20 - T25 - T27 - T30 - T40 T45 - T50 - T55
9 x	3/8": TB15 - TB20 - TB25 - TB27 TB30 - TB40 - TB45 - TB50 - TB55
3 x	1/4": 50 - 100 - 150 mm
3 x	3/8": 75 - 150 - 250 mm
1 x	1/4"
1 x	1/2"Fx3/8"M
2 x	1/4" - 3/8"
2 x	1/4" - 3/8"
1 x	1/4"
1 x	TS10 - TS15 - TS20 - TS25 - TS27 TS30 - TS40 - TS45 - TS50
1 x	1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 7 - 8 - 10 mm

1/1 SCS - SOCKET WRENCH 1/4” + 1/2” - METRIC

SCS Socket set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam



1/4“ 1/2“

		L mm	B mm	H mm	kg
711.0058	58 pcs	390,0	564,0	35,0	4,45

11 x	1/4“: 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 13 - 14 mm
20 x	1/2“: 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17- 18 - 19 20 - 21 - 22 - 23 - 24 - 26 - 27 - 28 - 30 - 32 mm
5 x	1/4“: 3 - 4 - 5 - 6 - 8 mm
4 x	1/4“: 4 - 5,5 - 6,5 - 8 mm
4 x	1/4“: PH1 - PH2 - PH3 - PH4
3 x	1/4“: PZ1 - PZ2 - PZ3
2 x	1/4“ - 1/2“
2 x	1/4“: 50 - 150 mm
2 x	1/2“: 125 - 250 mm
2 x	1/4“ x 110 mm - 1/2“ x 250 mm
1 x	1/4“ x 150 mm
2 x	1/4“ - 1/2“

SCS CHROMEplus® socket set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

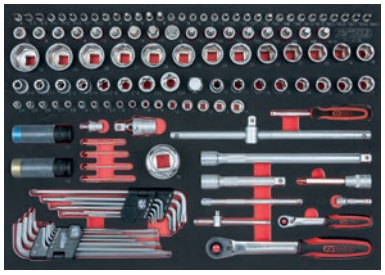
1/4“ 1/2“

		L mm	B mm	H mm	kg
781.0058	58 pcs	390,0	564,0	35,0	4,41

11 x	1/4“: 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 13 - 14 mm
20 x	1/2“: 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17- 18 - 19 20 - 21 - 22 - 23 - 24 - 26 - 27 - 28 - 30 - 32 mm
5 x	1/4“: 3 - 4 - 5 - 6 - 8 mm
4 x	1/4“: 4 - 5,5 - 6,5 - 8 mm
4 x	1/4“: PH1 - PH2 - PH3 - PH4
3 x	1/4“: PZ1 - PZ2 - PZ3
2 x	1/4“ - 1/2“
2 x	1/4“: 50 - 150 mm
2 x	1/2“: 125 - 250 mm
2 x	1/4“ x 110 mm - 1/2“ x 250 mm
1 x	1/4“ x 150 mm
2 x	1/4“ - 1/2“

SCS Socket set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam



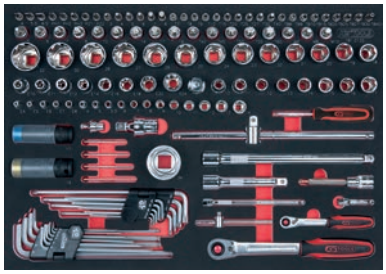
1/4“ 1/2“

		L mm	B mm	H mm	kg
711.0135	135 pcs	390,0	564,0	35,0	9,27

12 x	1/4“: 4 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 12 - 13 - 14 mm
21 x	1/2“: 10-11-12-13-14-15-16-17-18-19 20-21-22-23-24-25-26-27-28-30-32 mm
5 x	1/4“: E4 - E5 - E6 - E7 - E8
8 x	1/2“: E10 - E11 - E12 - E14 - E16 - E18 - E20 - E24
2 x	1/2“: 17 - 19 mm
1 x	3/4“: 36 mm
3 x	1/4“: 4 - 5,5 - 6,5 mm
3 x	1/4“: PH1 - PH2 - PH3
2 x	1/4“: PZ1 - PZ2
6 x	1/4“: 3 - 4 - 5 - 6 - 7 - 8 mm
10 x	1/4“: T7 - T8 - T9 - T10 - T15 - T20 T25 - T27 - T30 - T40
9 x	1/4“: TB8 - TB9 - TB10 - TB15 - TB20 TB25 - TB27 - TB30 - TB40
9 x	1/2“: 5 - 6 - 7 - 8 - 10 - 12 - 14 - 17 19 mm
5 x	1/2“: T40 - T45 - T50 - T55 - T60
3 x	1/2“: M6 - M8 - M10
1 x	1/2“: T25
2 x	1/4“: 50 - 150 mm
2 x	1/2“: 125 - 250 mm
2 x	1/4“ - 1/2“
1 x	1/4“
1 x	1/2“F x 3/4“M
2 x	1/4“ - 1/2“
2 x	1/4“ - 1/2“
4 x	T6 - T7 - T8 - T9
1 x	TS10 - TS15 - TS20 - TS25 - TS27 TS30 - TS40 - TS45 - TS50
1 x	1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 7 - 8 - 10 mm

SCS CHROMEplus® socket set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam



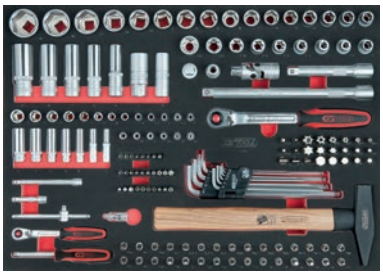
1/4“ 1/2“

		L mm	B mm	H mm	kg
781.0135	135 pcs	390,0	564,0	35,0	9,50

12 x	1/4“: 4 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 12 - 13 - 14 mm
21 x	1/2“: 10-11-12-13-14-15-16-17-18-19 20-21-22-23-24-25-26-27-28-30-32 mm
5 x	1/4“: E4 - E5 - E6 - E7 - E8
8 x	1/2“: E10 - E11 - E12 - E14 - E16 - E18 - E20 - E24
2 x	1/2“: 17 - 19 mm
1 x	3/4“: 36 mm
3 x	1/4“: 4 - 5,5 - 6,5 mm
3 x	1/4“: PH1 - PH2 - PH3
2 x	1/4“: PZ1 - PZ2
6 x	1/4“: 3 - 4 - 5 - 6 - 7 - 8 mm
10 x	1/4“: T7 - T8 - T9 - T10 - T15 - T20 T25 - T27 - T30 - T40
9 x	1/4“: TB8 - TB9 - TB10 - TB15 - TB20 TB25 - TB27 - TB30 - TB40
9 x	1/2“: 5 - 6 - 7 - 8 - 10 - 12 - 14 - 17 19 mm
5 x	1/2“: T40 - T45 - T50 - T55 - T60
3 x	1/2“: M6 - M8 - M10
1 x	1/2“: T25
2 x	1/4“: 50 - 150 mm
2 x	1/2“: 125 - 250 mm
2 x	1/4“ - 1/2“
1 x	1/4“
1 x	1/2“F x 3/4“M
2 x	1/4“ - 1/2“
2 x	1/4“ - 1/2“
4 x	T6 - T7 - T8 - T9
1 x	TS10 - TS15 - TS20 - TS25 - TS27 TS30 - TS40 - TS45 - TS50
1 x	1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 7 - 8 - 10 mm

SCS Socket set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam



1/4" 1/2"

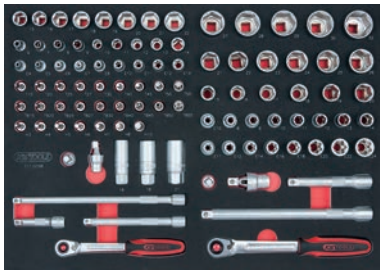
		L mm	B mm	H mm	kg
711.0163	163 pcs	390,0	564,0	35,0	7,24

13 x	1/4": 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 11 - 12 - 13 - 14 mm
17 x	1/2": 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 21 - 22 - 24 - 27 - 27 - 30 - 32 mm
7 x	1/4": 6 - 7 - 8 - 9 - 10 - 12 - 13 mm
5 x	1/2": 14 - 15 - 17 - 19 - 22 mm
5 x	1/4": E4 - E5 - E6 - E7 - E8
8 x	1/2": E10 - E11 - E12 - E14 - E16 - E18 - E20 - E24
2 x	1/2": 16 - 21 mm
4 x	1/4": 4 - 5,5 - 6,5 - 7 mm
3 x	1/4": PH0 - PH1 - PH2
3 x	1/4": PZ0 - PZ1 - PZ2
4 x	1/4": 3 - 4 - 5 - 6 mm
8 x	1/4": T8 - T9 - T10 - T15 - T20 - T25 - T27 - T30
8 x	1/4": TB8 - TB9 - TB10 - TB15 - TB20 - TB25 - TB27 - TB30
11 x	1/4": T5 - T6 - T7 - T8 - T9 - T10 - T15 - T20 - T25 - T27 - T30
1 x	1/4": TB7
3 x	1/4": M5 - M6 - M8
5 x	1/4": M5 - M6 - M7 - M8 - M9
8 x	1/4": TS10 - TS15 - TS20 - TS25 - TS27 - TS30 - TS40 - TS45
3 x	5/16": 8 - 10 - 12 mm
2 x	5/16": PH3 - PH4
2 x	5/16": PZ3 - PZ4
5 x	5/16": 7 - 8 - 10 - 12 - 14 mm
6 x	5/16": T40 - T45 - T50 - T55 - T60 - T70
6 x	5/16": TB40 - TB45 - TB50 - TB55 - TB60 - TB70
3 x	1/4" - 5/16" - 1/2"
2 x	1/4" - 1/2"
1 x	3/8"F x 1/2"M
2 x	1/4": 50 - 100 mm
2 x	1/2": 125 - 250 mm
1 x	1/4"
1 x	1/4"
2 x	1/4" - 1/2"
1 x	1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 7 - 8 - 10 mm
1 x	500 g

1/1 SCS - SOCKET WRENCH 3/8" + 1/2" - METRIC

SCS Socket set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam



3/8" 1/2"

		L mm	B mm	H mm	kg
711.0098	98 pcs	390,0	564,0	35,0	7,50

17 x	3/8": 6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22mm
24 x	1/2": 8-9-10-11-12-13-14-15-16-17-18-19 20-21-22-23-24-25-26-27-28-29-30-32mm
9 x	3/8": E4 - E5 - E6 - E7 - E8 - E10 - E11 E12 - E14
9 x	1/2": E10 - E11 - E12 - E14 - E16 - E18 - E20 - E22 - E24
3 x	3/8": 16 - 18 - 21 mm
7 x	3/8": 3 - 4 - 5 - 6 - 7 - 8 - 10 mm
9 x	3/8": T15 - T20 - T25 - T27 - T30 - T40 T45 - T50 - T55
9 x	3/8": TB15 - TB20 - TB25 - TB27 TB30 - TB40 - TB45 - TB50 - TB55
3 x	3/8": 75 - 150 - 250 mm
2 x	1/2": 125 - 250 mm
2 x	1/2"Fx3/8"M - 3/8"Fx1/2"M
2 x	3/8" - 1/2"
2 x	3/8" - 1/2"

SCS CHROMEplus® socket set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

3/8" 1/2"

		L mm	B mm	H mm	kg
781.0098	98 pcs	390,0	564,0	35,0	7,25

17 x	3/8": 6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22mm
24 x	1/2": 8-9-10-11-12-13-14-15-16-17-18-19 20-21-22-23-24-25-26-27-28-29-30-32mm
9 x	3/8": E4 - E5 - E6 - E7 - E8 - E10 - E11 E12 - E14
9 x	1/2": E10 - E11 - E12 - E14 - E16 - E18 - E20 - E22 - E24
3 x	3/8": 16 - 18 - 21 mm
7 x	3/8": 3 - 4 - 5 - 6 - 7 - 8 - 10 mm
9 x	3/8": T15 - T20 - T25 - T27 - T30 - T40 T45 - T50 - T55
9 x	3/8": TB15 - TB20 - TB25 - TB27 TB30 - TB40 - TB45 - TB50 - TB55
3 x	3/8": 75 - 150 - 250 mm
2 x	1/2": 125 - 250 mm
2 x	1/2"Fx3/8"M - 3/8"Fx1/2"M
2 x	3/8" - 1/2"
2 x	3/8" - 1/2"

1/1 SCS - SOCKET WRENCH 1/4" + 3/8" + 1/2" - METRIC

SCS Socket set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
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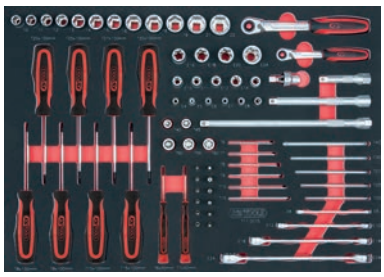


1/4" 3/8" 1/2"

		L mm	B mm	H mm	kg
711.0075	75 pcs	390,0	564,0	35,0	1,15

12 x	3/8": 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 18 - 19 - 21 - 22 mm
5 x	1/4": E4 - E5 - E6 - E7 - E8
4 x	3/8": E10 - E11- E12 - E14

4 x	1/2“: E16 - E18 - E20 - E24
2 x	3/8“: T40 - T45
3 x	1/2“: T50 - T55 - T60
2 x	1/4“: T6 - T25
10 x	1/4“: TB7 - TB8 - TB9 - TB10 - TB15 TB20 - TB25 - TB27 - TB30 - TB40
3 x	3/8“: 75 - 150 - 250 mm
2 x	3/8“x10mm - 1/4“x1/4“
1 x	3/8“
1 x	1/4“
1 x	3/8“
11 x	T6 - T7 - T8 - T9 - T10 - T15 - T20 - T25 - T27 - T30 - T40
8 x	T8 - T9 - T10 - T15 - T20 - T25 - T27 - T30
2 x	T6 - T7
4 x	E6xE8 - E10xE12 - E14xE18 E20xE24

SCS CHROMEplus® socket set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

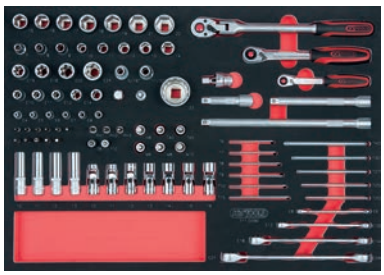
1/4“ 3/8“ 1/2“

	L mm	B mm	H mm	kg
781.0075 75 pcs	390,0	564,0	35,0	3,80

12 x	3/8“: 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 18 - 19 - 21 - 22 mm
5 x	1/4“: E4 - E5 - E6 - E7 - E8
4 x	3/8“: E10 - E11- E12 - E14
4 x	1/2“: E16 - E18 - E20 - E24
2 x	3/8“: T40 - T45
3 x	1/2“: T50 - T55 - T60
2 x	1/4“: T6 - T25
10 x	1/4“: TB7 - TB8 - TB9 - TB10 - TB15 TB20 - TB25 - TB27 - TB30 - TB40
3 x	3/8“: 75 - 150 - 250 mm
2 x	3/8“x10mm - 1/4“x1/4“
1 x	3/8“
1 x	1/4“
1 x	3/8“
11 x	T6 - T7 - T8 - T9 - T10 - T15 - T20 - T25 - T27 - T30 - T40
8 x	T8 - T9 - T10 - T15 - T20 - T25 - T27 - T30
2 x	T6 - T7
4 x	E6xE8 - E10xE12 - E14xE18 E20xE24

SCS Socket set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam



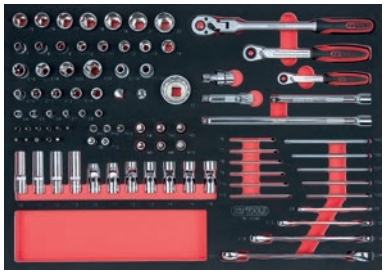
1/4“ 3/8“ 1/2“

	L mm	B mm	H mm	kg
711.0090 90 pcs	390,0	564,0	35,0	5,26

15 x	3/8“: 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 15 - 16 - 17 - 18 - 19 - 21 - 22 mm
4 x	3/8“: 10 - 11 - 12 - 13 mm
5 x	1/4“: E4 - E5 - E6 - E7 - E8
4 x	3/8“: E10 - E11 - E12 - E14
4 x	1/2“: E16 - E18 - E20 - E24
7 x	3/8“: 10 - 11 - 12 - 13 - 14 - 15 - 16 mm
3 x	1/2“: 33 mm - 5/16“ - 11/32“
3 x	1/4“: PH1 - PH2 - PH3
2 x	1/4“: T8 - T10
1 x	3/8“: 8 mm
2 x	3/8“: T40 - T45
3 x	3/8“: M6 - M8 - M10
2 x	1/4“: T6 - T25
9 x	1/4“: TB8 - TB9 - TB10 - TB15 - TB20 - TB25 - T27 - TB30 - TB40
3 x	3/8“: 75 - 150 - 250 mm
2 x	3/8“ - 1/4“
2 x	3/8“Fx1/4“M - 3/8“Fx1/2“M
1 x	3/8“
1 x	3/8“
2 x	1/4“ - 3/8“
11 x	T6 - T7 - T8 - T9 - T10 - T15 - T20 - T25 T27 - T30 - T40
4 x	E6xE8 - E10xE12 - E14xE18 E20xE24

SCS CHROMEplus® socket set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam



1/4“ 3/8“ 1/2“

	L mm	B mm	H mm	kg
781.0090 90 pcs	390,0	564,0	35,0	5,07

15 x	3/8“: 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 15 - 16 - 17 - 18 - 19 - 21 - 22 mm
4 x	3/8“: 10 - 11 - 12 - 13 mm
5 x	1/4“: E4 - E5 - E6 - E7 - E8
4 x	3/8“: E10 - E11 - E12 - E14
4 x	1/2“: E16 - E18 - E20 - E24
7 x	3/8“: 10 - 11 - 12 - 13 - 14 - 15 - 16 mm
3 x	1/2“: 33 mm - 5/16“ - 11/32“
3 x	1/4“: PH1 - PH2 - PH3
2 x	1/4“: T8 - T10
1 x	3/8“: 8 mm
2 x	3/8“: T40 - T45
3 x	3/8“: M6 - M8 - M10
2 x	1/4“: T6 - T25
9 x	1/4“: TB8 - TB9 - TB10 - TB15 - TB20 - TB25 - T27 - TB30 - TB40
3 x	3/8“: 75 - 150 - 250 mm
2 x	3/8“ - 1/4“
2 x	3/8“Fx1/4“M - 3/8“Fx1/2“M
1 x	3/8“
1 x	3/8“
2 x	1/4“ - 3/8“
11 x	T6 - T7 - T8 - T9 - T10 - T15 - T20 - T25 T27 - T30 - T40
4 x	E6xE8 - E10xE12 - E14xE18 E20xE24

SCS socket set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
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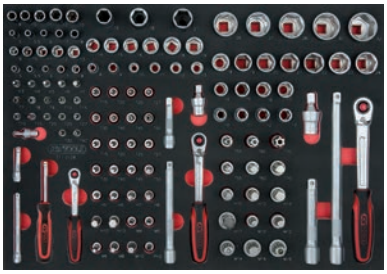
- Insert made from high quality three-coloured foam



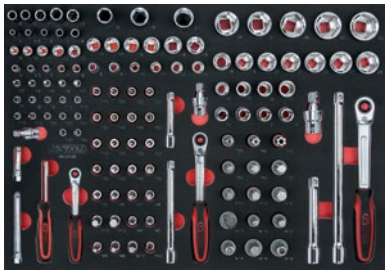
1/4" 3/8" 1/2"

		L mm	B mm	H mm	kg
711.0128	128 pcs	390,0	564,0	35,0	8,51

10 x	1/4": 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 12 - 13 mm
10 x	1/4": 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 12 - 13 mm
12 x	3/8": 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 16 - 17 - 18 - 19 mm
20 x	1/2": 10-11-12-13-14-15-16-17-18-19 20-21-22-23-24-26-27-28-30-32 mm
3 x	3/8": 16 - 18 - 21 mm
5 x	1/4": 3 - 4 - 5 - 6 - 7 mm
5 x	1/4": T7 - T8 - T9 - T10 - T15
7 x	1/4": TB10 - TB15 - TB20 - TB25 TB27 - TB30 - TB40
1 x	3/8": PH2
6 x	3/8": 5 - 6 - 7 - 8 - 10 - 12 mm
8 x	3/8": T15 - T20 - T25 - T27 - T30 - T40 T45 - T50
8 x	3/8": TB15 - TB20 - TB25 - TB27 TB30 - TB40 - TB45 - TB50
5 x	3/8": M4 - M5 - M6 - M8 - M10
4 x	1/2": 10 - 12 - 14 - 17 mm
3 x	1/2": T55 - T60 - T70
3 x	1/2": TB55 - TB60 - TB70
4 x	1/2": M10 - M12 - M14 - M16
1 x	1/2": M16
2 x	1/4": 50 - 150 mm
2 x	3/8": 75 - 150 mm
2 x	1/2": 125 - 250 mm
1 x	1/4"
3 x	1/4" - 3/8" - 1/2"
3 x	1/4" - 3/8" - 1/2"

SCS CHROMEplus® socket set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam



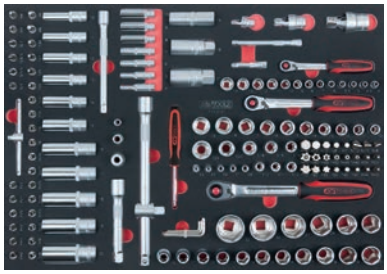
1/4" 3/8" 1/2"

		L mm	B mm	H mm	kg
781.0128	128 pcs	390,0	564,0	35,0	8,58

10 x	1/4": 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 12 - 13 mm
10 x	1/4": 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 12 - 13 mm
12 x	3/8": 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 16 - 17 - 18 - 19 mm
20 x	1/2": 10-11-12-13-14-15-16-17-18-19 20-21-22-23-24-26-27-28-30-32 mm
3 x	3/8": 16 - 18 - 21 mm
5 x	1/4": 3 - 4 - 5 - 6 - 7 mm
5 x	1/4": T7 - T8 - T9 - T10 - T15
7 x	1/4": TB10 - TB15 - TB20 - TB25 TB27 - TB30 - TB40
1 x	3/8": PH2
6 x	3/8": 5 - 6 - 7 - 8 - 10 - 12 mm
8 x	3/8": T15 - T20 - T25 - T27 - T30 - T40 T45 - T50
8 x	3/8": TB15 - TB20 - TB25 - TB27 TB30 - TB40 - TB45 - TB50
5 x	3/8": M4 - M5 - M6 - M8 - M10
4 x	1/2": 10 - 12 - 14 - 17 mm
3 x	1/2": T55 - T60 - T70
3 x	1/2": TB55 - TB60 - TB70
4 x	1/2": M10 - M12 - M14 - M16
1 x	1/2": M16
2 x	1/4": 50 - 150 mm
2 x	3/8": 75 - 150 mm
2 x	1/2": 125 - 250 mm
1 x	1/4"
3 x	1/4" - 3/8" - 1/2"
3 x	1/4" - 3/8" - 1/2"

SCS Socket set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam



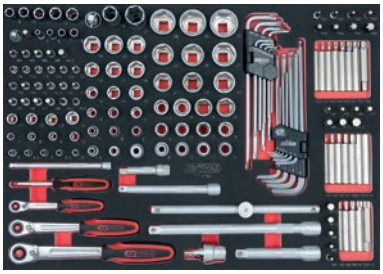
		L mm	B mm	H mm	kg
711.0151	151 pcs	390,0	564,0	35,0	9,60

13 x	1/4": 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 11 - 12 - 13 - 14 mm
10 x	3/8": 10 - 11 - 12 - 13 - 14 - 15 - 16 17 - 18 - 19 mm
17 x	1/2": 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 19 - 20 - 21 - 22 - 24 - 27 - 30 - 32 mm
5 x	1/4": E4 - E5 - E6 - E7 - E8
6 x	3/8": E10 - E11 - E12 - E14 - E16 E18
2 x	1/2": E20 - E24
7 x	1/4": 4 - 5 - 6 - 7 - 8 - 9 - 10 mm
6 x	3/8": 10 - 11 - 12 - 13 - 14 - 15 mm
5 x	1/2": 16 - 17 - 18 - 19 - 22
1 x	3/8": 18 mm
2 x	1/2": 16 - 21 mm
4 x	1/4": 3 - 4 - 5 - 6 mm
4 x	1/4": 4 - 5,5 - 6,5 - 7 mm
3 x	1/4": PH0- PH1 - PH2
3 x	1/4": PZ0- PZ1 - PZ2
8 x	1/4": T8 - T9 - T10 - T15 - T20 - T25 T27 - T30
8 x	1/4": TB8 - TB9 - TB10 - TB15 - TB20 TB25 - TB27 - TB30
5 x	7 - 8 - 10 - 12 - 14 mm
3 x	8 - 10 - 12 mm
2 x	PH 3 - PH 4
2 x	PZ 3 - PZ 4
6 x	T40 - T45 - T50 - T55 - T60 - T70
6 x	TB40 - TB45 - TB50 - TB55 - TB60 TB70
2 x	1/4": 50 - 100 mm
1 x	3/8": 150 mm
2 x	1/2": 125 - 250 mm
1 x	1/4"
1 x	1/4"
3 x	1/4"x1/4" - 3/8"x5/16" - 1/2"x5/16"
1 x	3/8"F x 1/2"M
3 x	1/4" - 3/8" - 1/2"

3 x	1/4“ - 3/8“ - 1/2“
7 x	1,3 - 1,5 - 2 - 2,5 - 3 - 4 - 5 mm

SCS Socket set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam



1/4“ 3/8“ 1/2“

	L mm	B mm	H mm	kg
711.0160 160 pcs	390,0	564,0	35,0	9,37

13 x	1/4“: 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 mm
9 x	1/4“: 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm
16 x	3/8“: 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 mm
21 x	1/2“: 8-10-11-12-13-14-15-16-17-18-19 20-21-22-23-24-26-27-28-30-32 mm
2 x	3/8“: 16 - 21 mm
2 x	1/4“: PH1 - PH2
8 x	1/4“: 2 - 2,5 - 3 - 4 - 5 - 6 - 7 - 8 mm
8 x	1/4“: T8 - T10 - T15 - T20 - T25 - T27 T30 - T40
5 x	1/4“: M4 - M5 - M6 - M8 - M10
7 x	10 mm: 4 - 5 - 6 - 7 - 8 - 10 - 12 mm
8 x	10 mm: T20 - T25 - T30 - T40 - T45 T50 - T55 - T60
5 x	10 mm: M5 - M6 - M8 - M10 - M12
7 x	10 mm: 4 - 5 - 6 - 7 - 8 - 10 - 12 mm
8 x	10 mm: T20 - T25 - T30 - T40 - T45 T50 - T55 - T60
5 x	10 mm: M5 - M6 - M8 - M10 - M12
2 x	1/4“: 50 - 150 mm
2 x	3/8“: 75 - 150 mm
2 x	1/2“: 125 - 250 mm
1 x	1/2“
1 x	1/4“
2 x	3/8“x10mm - 1/2“x10mm
3 x	1/4“ - 3/8“ - 1/2“
3 x	1/4“ - 3/8“ - 1/2“
1 x	TS10 - TS15 - TS20 - TS25 - TS27 TS30 - TS40 - TS45 - TS50
1 x	1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 7 - 8 - 10 mm

SCS CHROMEplus® socket set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

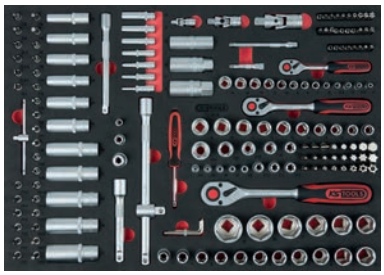
1/4“ 3/8“ 1/2“

	L mm	B mm	H mm	kg
781.0160 160 pcs	390,0	564,0	35,0	8,95

13 x	1/4“: 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 mm
9 x	1/4“: 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm
16 x	3/8“: 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 mm
21 x	1/2“: 8-10-11-12-13-14-15-16-17-18-19 20-21-22-23-24-26-27-28-30-32 mm
2 x	3/8“: 16 - 21 mm
2 x	1/4“: PH1 - PH2
8 x	1/4“: 2 - 2,5 - 3 - 4 - 5 - 6 - 7 - 8 mm
8 x	1/4“: T8 - T10 - T15 - T20 - T25 - T27 T30 - T40
5 x	1/4“: M4 - M5 - M6 - M8 - M10
7 x	10 mm: 4 - 5 - 6 - 7 - 8 - 10 - 12 mm
8 x	10 mm: T20 - T25 - T30 - T40 - T45 T50 - T55 - T60
5 x	10 mm: M5 - M6 - M8 - M10 - M12
7 x	10 mm: 4 - 5 - 6 - 7 - 8 - 10 - 12 mm
8 x	10 mm: T20 - T25 - T30 - T40 - T45 T50 - T55 - T60
5 x	10 mm: M5 - M6 - M8 - M10 - M12
2 x	1/4“: 50 - 150 mm
2 x	3/8“: 75 - 150 mm
2 x	1/2“: 125 - 250 mm
1 x	1/2“
1 x	1/4“
2 x	3/8“x10mm - 1/2“x10mm
3 x	1/4“ - 3/8“ - 1/2“
3 x	1/4“ - 3/8“ - 1/2“
1 x	TS10 - TS15 - TS20 - TS25 - TS27 TS30 - TS40 - TS45 - TS50
1 x	1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 7 - 8 - 10 mm

Socket set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality two-coloured foam



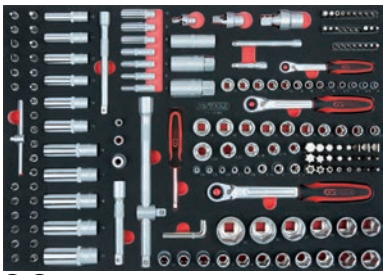
	L mm	B mm	H mm	kg
711.0179 179 pcs	390,0	564,0	35,0	8,10

13 x	1/4“: 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 -14 mm
10 x	3/8“: 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm
17 x	1/2“: 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 24 - 27 - 30 - 32 mm
7 x	1/4“: 4 - 5 - 6 - 7 - 8 - 9 - 10 mm
6 x	3/8“: 10 - 11 - 12 - 13 - 14 - 15 mm
5 x	1/2“: 16 - 17 - 18 - 19 - 22 mm
5 x	1/4“: E4 - E5 - E6 - E7 - E8
6 x	3/8“: E10 - E11 - E12 - E14 - E16 - E18
2 x	1/2“: E20 - E24
1 x	3/8“: 18 mm
2 x	1/2“: 16 - 21 mm
3 x	1/4“ - 3/8“ - 1/2“
1 x	1/4“ x 1/4“
2 x	3/8“ x 5/16“ - 1/2“ x 5/16“
1 x	3/8“F - 1/2“M
2 x	1/4“: 50 - 100 mm
1 x	3/8“: 150 mm
2 x	1/2“: 125 - 250 mm
1 x	150 mm
3 x	1/4“ - 3/8“ - 1/2“
1 x	150 mm
3 x	1/4“: PH0 - PH1 - PH2
3 x	1/4“: PZ0 - PZ1 - PZ2
8 x	1/4“: T8 - T9 - T10 - T15 - T20 - T25 - T27 - T30
8 x	1/4“: TB8 - TB9 - TB10 - TB15 - TB20 - TB25 - TB27 - TB30
4 x	1/4“: 4 - 5,5 - 6,5 - 7 mm
4 x	1/4“: 3 - 4 - 5 - 6 mm
7 x	1,3 -1,5 - 2 - 2,5 - 3 - 4 - 5 mm
11 x	1/4“: T5 - T6 - T7 - T8 - T9 - T10 - T15 - T20 - T25 - T27 - T30
1 x	1/4“: TB7

3 x	1/4“: M5 - M6 - M8
7 x	1/4“: TS10 - TS15 - TS20 - TS25 - TS27 - TS30 - TS40
5 x	1/4“: M5 - M6 - M7 - M8 - M9
2 x	5/16“: PH3 - PH4
2 x	5/16“: PZ3 - PZ4
6 x	5/16“: T40 - T45 - T50 - T55 - T60 - T70
6 x	5/16“: TB40 - TB45 - TB50 - TB55 - TB60 - TB70
5 x	5/16“: 7 - 8 - 10 - 12 - 14 mm
3 x	5/16“: 8 - 10 - 12 mm

SCS Socket set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam



1/4“ 3/8“ 1/2“

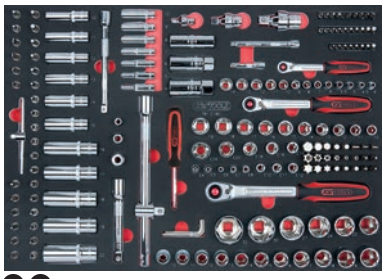
		L mm	B mm	H mm	kg
711.0180	180 pcs	390,0	564,0	35,0	8,24

13 x	1/4“: 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 11 - 12 - 13 - 14 mm
7 x	1/4“: 4 - 5 - 6 - 7 - 8 - 9 - 10 mm
5 x	1/4“: E4 - E5 - E6 - E7 - E8
10 x	3/8“: 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm
6 x	3/8“: 10 - 11 - 12 - 13 - 14 - 15 mm
6 x	3/8“: E10 - E11 - E12 - E14 - E16 - E18
1 x	3/8“: 18 mm
17 x	1/2“: 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 18 - 19 - 20 - 21 - 22 - 24 - 27 - 30 - 32 mm
5 x	1/2“: 16 - 17 - 18 - 19 - 22 mm
2 x	1/2“: E20 - E24
2 x	1/2“: 16 - 21 mm
4 x	1/4“: 3 - 4 - 5 - 6 mm
3 x	1/4“: 4 - 5 - 6,5 mm
3 x	1/4“: PH0 - PH1 - PH2
3 x	1/4“: PZ0 - PZ1 - PZ2
8 x	1/4: T8 - T9 - T10 - T15 - T20 - T25 T27 - T30
8 x	1/4: TB8 - TB9 - TB10 - TB15 - TB20 - TB25 - TB27 - TB30
11 x	1/4“: T5 - T6 - T7 - T8 - T9 - T10 - T15 - T20 - T25 - T27 - T30
1 x	1/4“: TB7
3 x	1/4“: M5 - M6 - M8
8 x	1/4“: TS10 - TS15 - TS20 - TS25 - TS27 - TS30 - TS40 - TS45
5 x	1/4“: M5 - M6 - M7 - M8 - M9

3 x	5/16“: 8 - 10 - 12 mm
5 x	5/16“: 7 - 8 - 10 - 12 - 14 mm
2 x	5/16“: PH3 - PH4
2 x	5/16“: PZ3 - PZ4
6 x	5/16“: T40 - T45 - T50 - T55 - T60 - T70
6 x	5/16“: TB40 - TB45 - TB50 - TB55 - TB60 - TB70
1 x	1/4“: T8
3 x	1/4“ - 3/8“ - 1/2“
2 x	1/2“: 125 - 250 mm
2 x	1/4“: 50 - 100 mm
1 x	3/8“: 150 mm
1 x	1/4“
1 x	1/2“Fx3/8“M
3 x	1/4“ - 3/8“ - 1/2“
1 x	1/4“
3 x	1/4“ - 3/8“ - 1/2“
7 x	1,3 - 1,5 - 2 - 2,5 - 3 - 4 - 5 mm

SCS CHROMEplus® socket set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam



1/4“ 3/8“ 1/2“

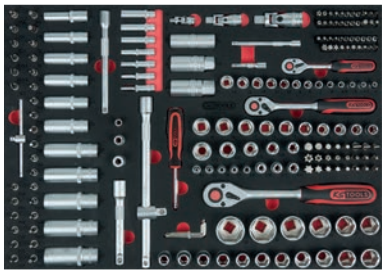
		L mm	B mm	H mm	kg
781.0180	180 pcs	390,0	564,0	35,0	8,24

13 x	1/4“: 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 11 - 12 - 13 - 14 mm
7 x	1/4“: 4 - 5 - 6 - 7 - 8 - 9 - 10 mm
5 x	1/4“: E4 - E5 - E6 - E7 - E8
10 x	3/8“: 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm
6 x	3/8“: 10 - 11 - 12 - 13 - 14 - 15 mm
6 x	3/8“: E10 - E11 - E12 - E14 - E16 - E18
1 x	3/8“: 18 mm
17 x	1/2“: 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 18 - 19 - 20 - 21 - 22 - 24 - 27 - 30 - 32 mm
5 x	1/2“: 16 - 17 - 18 - 19 - 22 mm
2 x	1/2“: E20 - E24
2 x	1/2“: 16 - 21 mm
4 x	1/4“: 3 - 4 - 5 - 6 mm
3 x	1/4“: 4 - 5 - 6,5 mm
3 x	1/4“: PH0 - PH1 - PH2

3 x	1/4“: PZ0 - PZ1 - PZ2
8 x	1/4: T8 - T9 - T10 - T15 - T20 - T25 T27 - T30
8 x	1/4: TB8 - TB9 - TB10 - TB15 - TB20 - TB25 - TB27 - TB30
11 x	1/4“: T5 - T6 - T7 - T8 - T9 - T10 - T15 - T20 - T25 - T27 - T30
1 x	1/4“: TB7
3 x	1/4“: M5 - M6 - M8
8 x	1/4“: TS10 - TS15 - TS20 - TS25 - TS27 - TS30 - TS40 - TS45
5 x	1/4“: M5 - M6 - M7 - M8 - M9
3 x	5/16“: 8 - 10 - 12 mm
5 x	5/16“: 7 - 8 - 10 - 12 - 14 mm
2 x	5/16“: PH3 - PH4
2 x	5/16“: PZ3 - PZ4
6 x	5/16“: T40 - T45 - T50 - T55 - T60 - T70
6 x	5/16“: TB40 - TB45 - TB50 - TB55 - TB60 - TB70
1 x	1/4“: T8
3 x	1/4“ - 3/8“ - 1/2“
2 x	1/2“: 125 - 250 mm
2 x	1/4“: 50 - 100 mm
1 x	3/8“: 150 mm
1 x	1/4“
1 x	1/2“Fx3/8“M
3 x	1/4“ - 3/8“ - 1/2“
1 x	1/4“
3 x	1/4“ - 3/8“ - 1/2“
7 x	1,3 - 1,5 - 2 - 2,5 - 3 - 4 - 5 mm

Socket set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality two-coloured foam



1/4" 3/8" 1/2"

		L mm	B mm	H mm	kg
711.0195	195 pcs	390,0	564,0	35,0	7,82

13 x	1/4": 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 -14 mm
10 x	3/8": 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm
17 x	1/2": 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 24 - 27 - 30 - 32 mm
7 x	1/4": 4 - 5 - 6 - 7 - 8 - 9 - 10 mm
6 x	3/8": 10 - 11 - 12 - 13 - 14 - 15 mm
5 x	1/2": 16 - 17 - 18 - 19 - 22 mm
5 x	1/4": E4 - E5 - E6 - E7 - E8
6 x	3/8": E10 - E11 - E12 - E14 - E16 - E18
2 x	1/2": E20 - E24
1 x	3/8": 18 mm
2 x	1/2": 16 - 21 mm
3 x	1/4" - 3/8" - 1/2"
1 x	1/4" x 1/4"
2 x	3/8" x 5/16" - 1/2" x 5/16"
1 x	3/8"F - 1/2"M
2 x	1/4": 50 - 100 mm
1 x	3/8": 150 mm
2 x	1/2": 125 - 250 mm
1 x	1/4" 110 mm
3 x	1/4" - 3/8" - 1/2"
1 x	150 mm
3 x	1/4": PH0 - PH1 - PH2
3 x	1/4": PZ0 - PZ1 - PZ2
8 x	1/4": T8 - T9 - T10 - T15 - T20 - T25 - T27 - T30
8 x	1/4": TB8 - TB9 - TB10 - TB15 - TB20 - TB25 - TB27 - TB30
4 x	1/4": 4 - 5,5 - 6,5 - 7 mm
4 x	1/4": 3 - 4 - 5 - 6 mm
7 x	1,3 -1,5 - 2 - 2,5 - 3 - 4 - 5 mm
3 x	1/4": 4 - 5 - 6 mm
3 x	1/4": PH1 - PH2 - PH3
2 x	1/4": PZ1 - PZ2
11 x	1/4": T5 - T6 - T7 - T8 - T9 - T10 - T15 - T20 - T25 - T27 - T30
8 x	1/4": TB7 - TB10 - TB15 - TB20 - TB25 - TB27 - TB30 - TB40
3 x	1/4": M5 - M6 - M8
8 x	1/4": TS10 - TS15 - TS20 - TS25 - TS27 - TS30 - TS40 - TS45
5 x	1/4": M5 - M6 - M7 - M8 - M9
5 x	5/16": 6 - 7 - 8 - 10 - 12 mm
2 x	5/16": PH3 - PH4
2 x	5/16": PZ3 - PZ4
3 x	5/16": 8 - 10 - 12 mm
6 x	5/16": T30 - T40 - T45 - T50 - T55 - T60
6 x	5/16": TB30 - TB40 - TB45 - TB50 - TB55 - TB60

1/1 SCS - SOCKET WRENCH 1/4" + 3/8" + 1/2" - IMPERIAL

SCS Socket set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

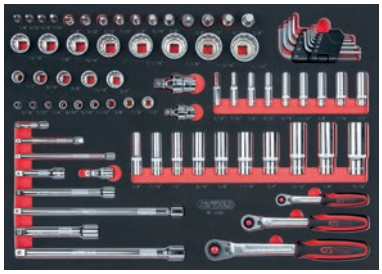
1/4" 3/8" 1/2"

		L mm	B mm	H mm	kg
711.0080	80 pcs	390,0	564,0	35,0	7,35

9 x	1/4": 3/16"-7/32"-1/4"-9/32"-5/16" 11/32"-3/8"-7/16"-1/2"
5 x	3/8": 1/2"-9/16"-5/8"-11/16"-3/4"
8 x	1/2": 13/16"-7/8"-15/16"-1"-1.1/16" 1.1/8"-1.3/16"-1.1/4"
9 x	1/4": 3/16"-7/32"-1/4"-9/32"-5/16" 11/32"-3/8"-7/16"-1/2"
7 x	3/8": 3/8"-7/16"-1/2"-9/16"-5/8"-11/16" 3/4"
3 x	1/2": 13/16"- 7/8"-15/16"
4 x	1/4": 1/8"-5/32"-3/16"-7/32"
7 x	3/8": 1/8"-5/32"-3/16"-7/32"-1/4" 5/16"-3/8"
4 x	1/2": 3/8"-1/2" 9/16"-5/8"
3 x	1/4": 50 - 100 - 150 mm
4 x	3/8": 50 - 75 - 150 - 250 mm
2 x	1/2": 125 - 250 mm
2 x	3/8" - 1/2"
3 x	1/4" - 3/8" - 1/2"
1 x	5/64" - 3/32" - 1/8" - 5/32" - 3/16" - 1/4" - 5/16" - 7/16" - 1/2" - 9/16"

SCS CHROMEplus® socket set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam



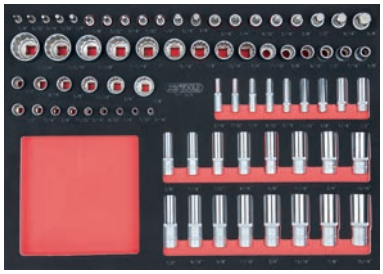
1/4" 3/8" 1/2"

		L mm	B mm	H mm	kg
781.0080	80 pcs	390,0	564,0	35,0	6,25

9 x	1/4": 3/16"-7/32"-1/4"-9/32"-5/16" 11/32"-3/8"-7/16"-1/2"
5 x	3/8": 1/2"-9/16"-5/8"-11/16"-3/4"
8 x	1/2": 13/16"-7/8"-15/16"-1"-1.1/16" 1.1/8"-1.3/16"-1.1/4"
9 x	1/4": 3/16"-7/32"-1/4"-9/32"-5/16" 11/32"-3/8"-7/16"-1/2"
7 x	3/8": 3/8"-7/16"-1/2"-9/16"-5/8"-11/16" 3/4"
3 x	1/2": 13/16"- 7/8"-15/16"
4 x	1/4": 1/8"-5/32"-3/16"-7/32"
7 x	3/8": 1/8"-5/32"-3/16"-7/32"-1/4" 5/16"-3/8"
4 x	1/2": 3/8"-1/2" 9/16"-5/8"
3 x	1/4": 50 - 100 - 150 mm
4 x	3/8": 50 - 75 - 150 - 250 mm
2 x	1/2": 125 - 250 mm
2 x	3/8" - 1/2"
3 x	1/4" - 3/8" - 1/2"
1 x	5/64" - 3/32" - 1/8" - 5/32" - 3/16" - 1/4" - 5/16" - 7/16" - 1/2" - 9/16"

SCS Socket set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam



1/4" 3/8" 1/2"

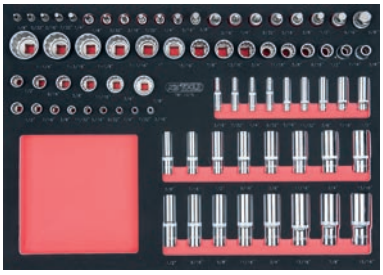
		L mm	B mm	H mm	kg
711.1075	75 pcs	390,0	564,0	35,0	5,85

9 x	1/4": 3/16"-7/32"-1/4"-9/32"-5/16" 11/32"-3/8"-7/16"-1/2"
6 x	3/8": 1/2"-9/16"-5/8"-11/16"-3/4"-7/8"
15 x	1/2": 3/8"-7/16"-1/2"-9/16"-5/8"-11/16"-3/4" 13/16"-7/8"-15/16"-1"-1.1/16"-1.1/8"-1.3/16"-1.1/4"

9 x		1/4“: 3/16“-7/32“-1/4“-9/32“-5/16“ 11/32“-3/8“-7/16“-1/2“
8 x		3/8“: 3/8“-7/16“-1/2“-9/16“-5/8“-11/16“ 3/4“-13/16“
8 x		1/2“: 1/2“-9/16“-5/8“-11/16“-3/4“-13/16“ 7/8“-15/16“
5 x		1/4“: 1/8“-5/32“-3/16“-7/32“-1/4“
7 x		3/8“: 1/8“-5/32“-3/16“-7/32“-1/4“ 5/16“-3/8“
8 x		1/2“: 3/16“-1/4“-9/32“-5/16“-3/8“-1/2“ 9/16“-5/8“

SCS CHROMEplus® socket set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam



1/4“ 3/8“ 1/2“

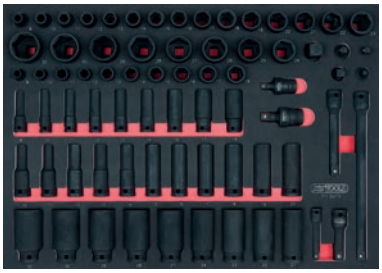
		L mm	B mm	H mm	kg
781.1075	75 pcs	390,0	564,0	35,0	5,75

9 x		1/4“: 3/16“-7/32“-1/4“-9/32“-5/16“ 11/32“-3/8“-7/16“-1/2“
6 x		3/8“: 1/2“-9/16“-5/8“-11/16“-3/4“-7/8“
15 x		1/2“: 3/8“-7/16“-1/2“-9/16“-5/8“-11/16“-3/4“ 13/16“-7/8“-15/16“-1“-1.1/16“-1.1/8“-1.3/16“-1.1/4“
9 x		1/4“: 3/16“-7/32“-1/4“-9/32“-5/16“ 11/32“-3/8“-7/16“-1/2“
8 x		3/8“: 3/8“-7/16“-1/2“-9/16“-5/8“-11/16“ 3/4“-13/16“
8 x		1/2“: 1/2“-9/16“-5/8“-11/16“-3/4“-13/16“ 7/8“-15/16“
5 x		1/4“: 1/8“-5/32“-3/16“-7/32“-1/4“
7 x		3/8“: 1/8“-5/32“-3/16“-7/32“-1/4“ 5/16“-3/8“
8 x		1/2“: 3/16“-1/4“-9/32“-5/16“-3/8“-1/2“ 9/16“-5/8“

1/1 SCS - IMPACT SOCKET WRENCH

SCS impact socket wrench set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam



3/8“ 1/2“

		L mm	B mm	H mm	kg
711.0073	73 pcs	390,0	564,0	35,0	14,74

10 x		3/8“: 8 - 10 - 11 - 12 - 13 - 14 - 15 16 - 17 - 19 mm
9 x		3/8“: 8 - 10 - 11 - 12 - 13 - 14 - 16 17 - 19 mm
1 x		1/4“F x 3/8“M
1 x		3/8“F x 1/4“M
1 x		3/8“F x 1/2“M
1 x		3/8“
1 x		3/8“: 75 mm
23 x		1/2“: 8 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 21 - 22 - 23 - 24 - 25 - 26 - 27 - 28 - 29 - 30 - 32 mm
20 x		1/2“: 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 20 - 21 - 22 - 23 - 24 - 27 - 28 - 29 - 30 - 32 mm
1 x		1/2“
3 x		1/2“: 75 - 125 - 250 mm
1 x		1/2“F x 3/8“M
1 x		1/2“F x 3/4“M

SCS impact socket wrench set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

1/4“ 3/8“ 1/2“

		L mm	B mm	H mm	kg
711.0102	102 pcs	390,0	564,0	35,0	11,44

10 x		3/8“: 8 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 19 mm
9 x		3/8“: 8 - 10 - 11 - 12 - 13 - 14 - 16 - 17 - 19 mm
22 x		1/2“: 8 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 23 - 24 - 26 - 27 - 28 - 29 - 30 - 32 mm
18 x		1/2“: 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 23 - 24 - 27 - 30 - 32 mm
8 x		1/4“: E4 - E5 - E6 - E7 - E8 - E10 - E11 - E12
9 x		3/8“: E5 - E6 - E7 - E8 - E10 - E11 - E12 - E14 - E16
8 x		1/2“: E10 - E12 - E14 - E16 - E18 - E20 - E22 - E24
4 x		1/2“: 6 - 8 - 10 - 12 mm
4 x		1/2“: T30 - T40 - T45 - T50
1 x		1/4“: 50 mm
1 x		3/8“: 75 mm
3 x		1/2“: 75 - 125 - 250 mm
1 x		1/2“
1 x		3/8“F x 1/4“M
1 x		1/2“F x 3/8“M
1 x		3/8“F x 1/2“M
1 x		1/2“F x 3/4“M

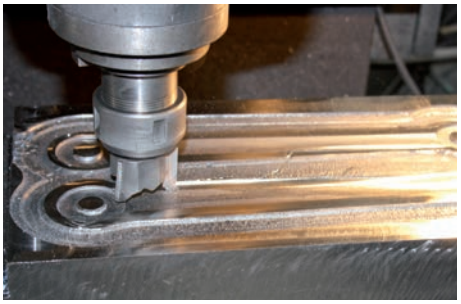
SCS impact socket set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

3/4“ 3/8“ 1/2“

		L mm	B mm	H mm	kg
711.2033	33 pcs	390,0	564,0	35,0	18,95

15 x		19 - 21 - 22 - 23 - 24 - 27 - 28 - 30 - 32 33 - 34 - 36 - 38 - 41 - 46 mm
14 x		19 - 21 - 22 - 23 - 24 - 27 - 30 - 32 - 33 34 - 36 - 38 - 41 - 46 mm
2 x		3/4“F x 1/2“M - 3/4“F x 1“M
1 x		1/2“
1 x		150 mm



SCS impact socket wrench set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

3/4“ 3/8“ 1/2“

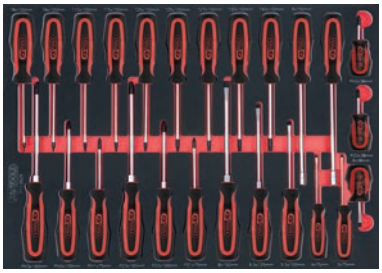
		L mm	B mm	H mm	kg
711.1035	35 pcs	390,0	564,0	35,0	19,42

16 x		3/4“: 17 - 19 - 21 - 22 - 23 - 24 - 27 - 28 - 30 - 32 - 33 - 34 - 36 - 38 - 41 - 46 mm
14 x		3/4“: 19 - 21 - 22 - 23 - 24 - 27 - 30 - 32 - 33 - 34 - 36 - 38 - 41 - 46 mm
3 x		3/4“: 100 - 200 mm
1 x		3/4“
1 x		3/4“F x 1/2“M
1 x		3/4“F x 1“M

1/1 SCS - SCREWDRIVER

SCS ERGOTORQUE*plus*® screwdriver set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

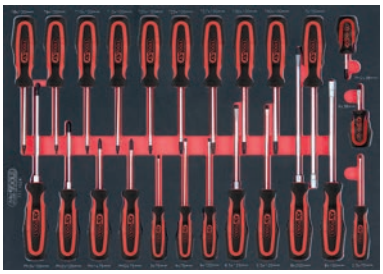


		L mm	B mm	H mm	kg
711.0025	25 pcs	390,0	375,0	35,0	2,96

1 x	PH2
3 x	PH1 - PH2 - PH3
1 x	PZ2
3 x	PZ1 - PZ2 - PZ3
1 x	6 mm
5 x	3 - 4 - 5,5 - 6,5 - 8 mm
9 x	T8 - T9 - T10 - T15 - T20 - T25 - T27 T30 - T40
2 x	6 - 7 mm

SCS ERGOTORQUE*plus*® screwdriver set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

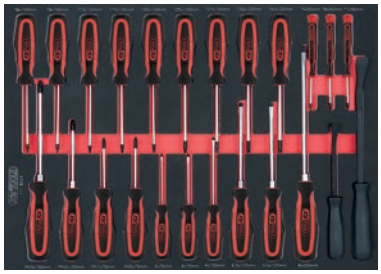


		L mm	B mm	H mm	kg
711.1024	24 pcs	390,0	375,0	35,0	2,80

1 x	6 mm
7 x	(2,5 - 3 - 4) x 155 mm, 4 x 180 mm, (5,5 - 6,5) x 230 mm, 8 x 265 mm
1 x	PH2
4 x	PH0 - PH1 - PH2 - PH3
9 x	T8 - T9 - T10 - T15 - T20 - T25 - T27 T30 - T40
2 x	7 - 8 mm

SCS Screwdriver set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam



		L mm	B mm	H mm	kg
711.8024	24 pcs	390,0	564,0	35,0	1,83

6 x	3x155 - 4x155 - 4x180 - 5,5x230 - 6,5x230 - 8x315 mm
4 x	PH0 - PH1 - PH2 - PH3
9 x	T8 - T9 - T10 - T15 - T20 - T25 - T27 T30 - T40
3 x	T5 - T6 - T7
2 x	11x115 - 15x185 mm

SCS screwdriver set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

		L mm	B mm	H mm	kg
711.1029	29 pcs	390,0	564,0	35,0	2,81

1 x	2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm
1 x	6 mm
7 x	3 - 4 - 5,5 - 6,5 - 8 - 10 - 10
1 x	PH2
3 x	PH1 - PH2 - PH3
9 x	TB8 - TB9 - TB10 - TB15 - TB20 TB25 - TB27 - T30 - T40

SCS ERGOTORQUE*plus*® screwdriver set

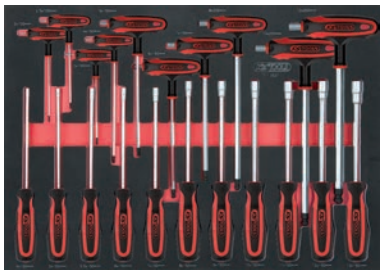
- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

		L mm	B mm	H mm	kg
711.0034	34 pcs	390,0	375,0	35,0	2,20

1 x	1,5 - 2,0 - 2,5 - 3,0 - 4,0 - 5,0 - 6,0 - 7,0 - 8,0 - 10,0 mm
3 x	5 - 6 - 8 mm
1 x	6 mm
5 x	(3 - 4) x 155 mm, 5,5 x 205 mm, 6,5 x 230 mm, 8 x 265 mm
1 x	PH2
3 x	PH1 - PH2 - PH3
9 x	PZ2
2 x	T8 - T9 - T10 - T15 - T20 - T25 - T27 T30 - T40
1 x	2 mm

SCS ERGOTORQUE*plus*® screwdriver and T-handle set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

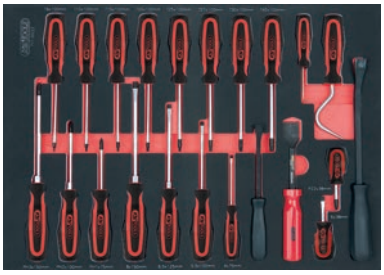


		L mm	B mm	H mm	kg
711.0021	21 pcs	390,0	564,0	35,0	3,30

10 x	2 - 2,5 - 3 - 4 - 5 - 6 - 7 - 8 - 10 - 12 mm
11 x	4 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 13 mm

SCS screwdriver and hook set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam



		L mm	B mm	H mm	kg
711.0022	22 pcs	390,0	564,0	35,0	1,65
1 x	6 mm				
4 x	4 x 155 mm, 5,5 x 205 mm - 6,5 x 230 mm, 8 x 265 mm				
1 x	PH2				
3 x	PH1 - PH2 - PH3				
8 x	T9 - T10 - T15 - T20 - T25 - T27 T30 - T40				
1 x	90°				
1 x	185 mm				
2 x	11 x 115 - 15 x 185 mm				
1 x	25 x 200 mm				

Screwdriver and pliers set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

		L mm	B mm	H mm	kg
711.0013	12 pcs	390,0	564,0	35,0	1,78
1 x	180 mm				
1 x	180 mm				
1 x	200 mm				
1 x	240 mm				
3 x	PH1 - PH2 - PH3				
5 x	3 - 4 - 5,5 - 6,5 - 8 mm				

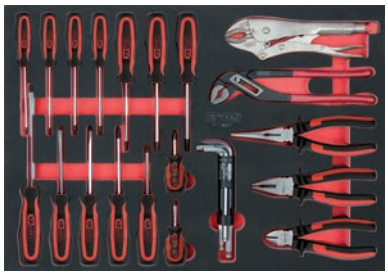
SCS ERGOTORQUE® pliers and screwdriver set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

		L mm	B mm	H mm	kg
711.1023	23 pcs	390,0	564,0	35,0	4,90
1 x	180 mm				
1 x	210 mm				
1 x	180 mm				
1 x	200 mm				
2 x	175 - 220 mm				
4 x	3,5 x 185 - 5,5 x 205 - 7 x 230 - 8 x 230 mm				
4 x	PH0 x 165 - PH1 x 185 - PH2 x 185 - PH3 x 255 mm				
1 x	235 mm				
1 x	0,05 - 1 mm				
7 x	8x10 - 10x12 - 12x13 - 14x15 - 14x17 - 17x19 - 19x21 mm				

SCS Screwdriver and pliers set

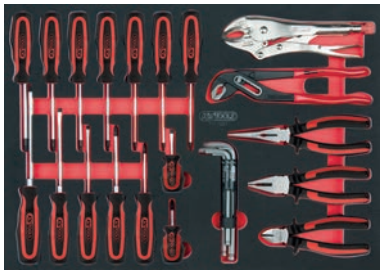
- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam



		L mm	B mm	H mm	kg
711.6027	27 pcs	390,0	564,0	35,0	3,85
1 x	160 mm				
1 x	180 mm				
1 x	200 mm				
1 x	250 mm				
1 x	240 mm				
4 x	5,5 - 6,5 x 100 - 6 x 38 - 8 x 150 mm				
3 x	PH1 x 75 - PH2 x 38 - PH2 x 100 mm				
7 x	TB10 - TB15 - TB20 - TB25 - TB27 - TB30 - TB40				
1 x	2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm				

SCS Screwdriver and pliers set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam



		L mm	B mm	H mm	kg
711.1027	27 pcs	390,0	564,0	35,0	3,85
1 x	160 mm				
1 x	180 mm				
1 x	200 mm				
1 x	250 mm				
1 x	240 mm				
4 x	5,5 x 100 - 6 x 38 - 6,5 x 125 - 8 x 150 mm				
3 x	PH1 x 75 - PH2 x 38 - PH2 x 100 mm				
7 x	TB10 - TB15 - TB20 - TB25 - TB27 - TB30 - TB40				
8 x	5/64" - 3/32" - 1/8" - 5/32" - 3/16" - 1/4" - 5/16" - 3/8"				

Pliers and screwdriver set

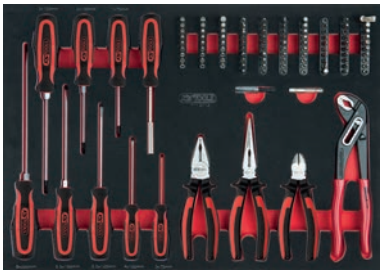
- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality two-coloured foam

		L mm	B mm	H mm	kg
711.1059	59 pcs	390,0	564,0	35,0	3,84
1 x	160 mm				
1 x	180 mm				
1 x	200 mm				
1 x	240 mm				
1 x	6 mm				
6 x	3 - 4 - 5,5 - 6,5 - 8 - 10 mm				
1 x	PH2				
4 x	PH0 - PH1 - PH2 - PH3				
4 x	PZ0 - PZ1 - PZ2 - PZ3				
1 x	1/4"				

1 x	1/4“
1 x	2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm
1 x	T10 - T15 - T20 - T25 - T30 - T40 - T45 - T50
7 x	2 - 2,5 - 3 - 4 - 5 - 6 - 8 mm
7 x	TB10 - TB15 - TB20 - TB25 - TB27 - TB30 - TB40
7 x	T10 - T15 - T20 - T25 - T27 - T30 - T40

SCS Screwdriver and pliers set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam



		L mm	B mm	H mm	kg
711.0112	112 pcs	390,0	564,0	35,0	2,90

5 x	3x155 – 4x180 – 5,5x230 – 6,5x255 – 8x315 mm
3 x	PH1 – PH2 – PH3
1 x	1/4“
1 x	180 mm
1 x	180 mm
1 x	200 mm
1 x	240 mm
1 x	60 mm
2 x	25 - 50 mm
1 x	1/4“
9 x	3 - 4 - 4,5 - 5 - 5,5 - 6 - 6,5 - 7 - 8 mm
8 x	PH0 - PH1 - 5 x PH2 - PH3 -
8 x	PZ0 - PZ1 - 5 x PZ2 - PZ3
9 x	1,5 - 2 - 2,5 - 3 - 4 - 5 - 5,5 - 6 - 8 mm
10 x	1/16“ - 5/64“ - 3/32“ - 7/64“ - 1/8“ - 9/64“ - 5/32“ - 3/16“ - 7/32“ - 1/4“
6 x	2 - 2,5 - 3 - 4 - 5 - 6 mm
6 x	5/64“ - 3/32“ - 7/64“ - 1/8“ - 9/64“ - 5/32“
9 x	T8 - T10 - T15 - T20 - T25 - T27 - T30 - T40 - T45
9 x	TB8 - TB10 - TB15 - TB20 - TB25 - TB27 - TB30 - TB35 - TB40
3 x	M5 - M6 - M8
3 x	#1 - #2 - #3
4 x	#1 - #2 - #3 - #4
4 x	4 - 6 - 8 - 10 mm
3 x	6 - 8 - 10 mm
4 x	#0 - #1 - #2 - #3

SCS VDE pliers and screwdriver set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

		L mm	B mm	H mm	kg
711.0124	124 pcs	390,0	564,0	35,0	4,20

9 x	1,5 - 2 - 2,5 - 3 - 4 - 5 - 5,5 - 6 - 8 mm
6 x	2 - 2,5 - 3 - 4 - 5 - 6 mm
9 x	3 - 4 - 4,5 - 5 - 5,5 - 6 - 6,5 - 7 - 8 mm
8 x	PH 0 - PH 1 - 5x PH 2 - PH 3
8 x	PZ 0 - PZ 1 - 5x PZ 2 - PZ 3
9 x	T8 - T10 - T15 - T20 - T25 - T27 - T30 T40 - T45
9 x	TB8 - TB10 - TB15 - TB20 - TB25 TB27 - TB30 - TB35 - TB40
3 x	M5 - M6 - M8
3 x	6 - 8 - 10 mm
4 x	#1 - #2 - #3 - #4
4 x	4 - 6 - 8 - 10 mm
10 x	1/16“ - 5/64“ - 3/32“ - 7/64“ - 1/8“ 9/64“ - 5/32“ - 3/16“ - 7/32“ - 1/4“
6 x	1/8“ - 3/32“ - 5/32“ - 5/64“ - 7/64“ 9/64“
4 x	#0 - #1 - #2 - #3
3 x	#1 - #2 - #3

1 x	1/4“
1 x	1/4“
2 x	30 - 50 mm
1 x	25 mm
1 x	
1 x	160 mm
1 x	180 mm
1 x	200 mm
1 x	240 mm
3 x	4 - 5,5 - 6,5 mm
2 x	PH1 - PH2
1 x	9,5 mm
1 x	3 mm
1 x	130 mm
1 x	130 mm
6 x	2 - 3 - 4 - 4 - 5 - 6 - 8 mm
1 x	300 g
1 x	18 mm
1 x	3 m x 16 mm

1/1 SCS - PLIERS

SCS Pliers set

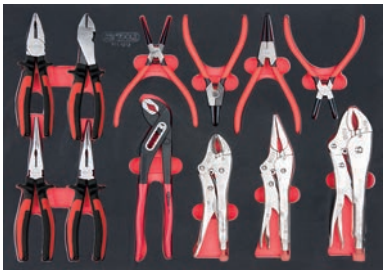
- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

		L mm	B mm	H mm	kg
711.5009	9 pcs	390,0	564,0	35,0	2,49

1 x	250 mm
1 x	240 mm
1 x	160 mm
1 x	180 mm
1 x	160 mm
1 x	160 mm
1 x	160 mm
1 x	160 mm
1 x	160 mm

SCS Pliers set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam



		L mm	B mm	H mm	kg
711.1012	12 pcs	390,0	564,0	35,0	3,39

1 x	180 mm
1 x	210 mm
1 x	180 mm
1 x	200 mm
2 x	125 - 250 mm
1 x	225 mm
1 x	240 mm
1 x	160 mm
1 x	160 mm
1 x	160 mm
1 x	160 mm

SCS Pliers set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

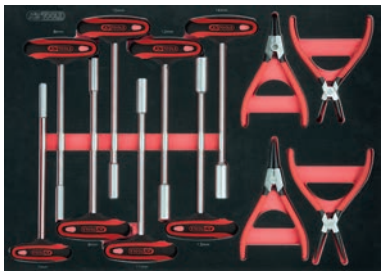
		L mm	B mm	H mm	kg
711.1016	16 pcs	390,0	564,0	35,0	4,78

1 x	180 mm
1 x	210 mm
1 x	180 mm
2 x	160 - 200 mm
1 x	250 mm
1 x	150 mm
1 x	220 mm

1 x	240 mm
1 x	160 mm
1 x	160 mm
1 x	160 mm
1 x	160 mm
1 x	270 mm
1 x	270 mm
1 x	280 mm

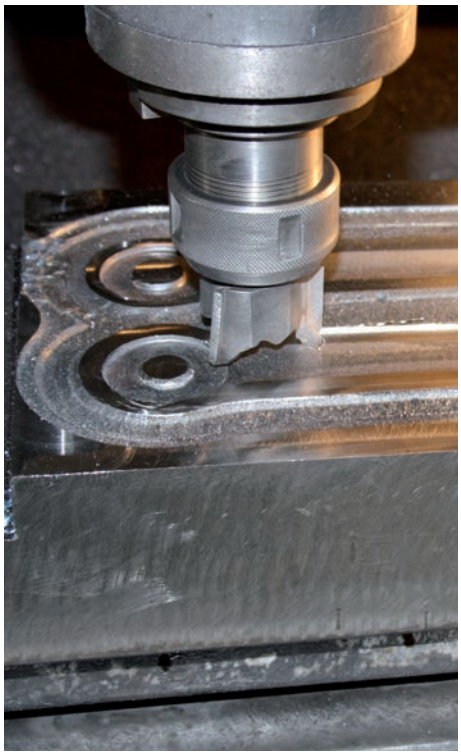
SCS Circlip pliers and T-Handles set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam



		L mm	B mm	H mm	kg
711.0012	12 pcs	390,0	564,0	35,0	2,78

8 x	7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 mm
1 x	19 - 60 mm
1 x	19 - 60 mm
1 x	19 - 60 mm
1 x	19 - 60 mm



SCS pliers and hammer set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

		L mm	B mm	H mm	kg
711.9013	13 pcs	390,0	564,0	35,0	3,83

1 x	180 mm
1 x	165 mm
1 x	180 mm
1 x	240 mm
2 x	10 - 28 mm, 19 - 60 mm
1 x	19 - 60 mm
2 x	12 - 25 mm, 19 - 60 mm
1 x	19 - 60 mm
1 x	850 g
2 x	300 - 500 g

SCS Pliers and file set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

		L mm	B mm	H mm	kg
711.5018	18 pcs	390,0	564,0	35,0	4,30

1 x	125 mm
1 x	165 mm
1 x	180 mm
1 x	200 mm

1 x	250 mm
1 x	240 mm
1 x	160 mm
1 x	160 mm
1 x	160 mm
1 x	160 mm
1 x	200 mm
1 x	200 mm
1 x	200 mm
1 x	200 mm
1 x	0 - 150mm
1 x	0,01 - 1,0 mm
1 x	5 m
1 x	145 mm

SCS pliers and wrench set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

		L mm	B mm	H mm	kg
711.2036	36 pcs	390,0	564,0	35,0	3,56

1 x	250 mm
1 x	240 mm
1 x	125 mm
1 x	180 mm
1 x	200 mm
1 x	160 mm
1 x	160 mm
1 x	160 mm
1 x	160 mm
4 x	T6 - T7 - T8 - T9
1 x	1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 7 - 8 - 10 mm
1 x	TS10 - TS15 - TS20 - TS25 - TS27 - TS30 - TS40 - TS45 - TS50
1 x	130 - 630 mm
1 x	510 mm, Ø = 15mm
1 x	140 mm
1 x	145 mm

1/1 SCS - HAMMER & CHISEL

SCS chisel and hammer set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

		L mm	B mm	H mm	kg
711.0014	14 pcs	390,0	564,0	35,0	3,56

1 x	5 mm
6 x	Ø 3 - (2 x 4) - 5 - 6 - 8 mm
1 x	5 mm
1 x	10 mm
1 x	20 mm
1 x	7 mm
1 x	300 g
1 x	1000 g
1 x	350 g

SCS file, chisel and hammer set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

		L mm	B mm	H mm	kg
711.0018	18 pcs	390,0	564,0	35,0	4,80

1 x	350 g
1 x	300 g
1 x	1000 g
1 x	Ø 5 mm
6 x	Ø 3 - (2 x 4) - 5 - 6 - 8 mm
1 x	20 x 210 mm
1 x	7 x 190 mm
1 x	10 x 185 mm
1 x	5 x 185 mm
1 x	200 mm
1 x	200 mm
1 x	200 mm
1 x	200 mm

File, chisel and hammer set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality two-coloured foam

		L mm	B mm	H mm	kg
711.1018	18 pcs	390,0	564,0	35,0	3,76

1 x	300 g
1 x	1000 g
7 x	Ø 2 - 3 - (2 x 4) - 5 - 6 - 8 mm
1 x	Ø 5 mm
1 x	Ø 3 mm
1 x	
1 x	12 mm
1 x	26 mm
1 x	200 mm
1 x	200 mm
1 x	200 mm
1 x	200 mm

SCS File, chisel and pliers set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

		L mm	B mm	H mm	kg
711.2021	21 pcs	390,0	564,0	35,0	5,60
5 x	Ø 3 - 4 - 5 - 6 - 8 mm				
1 x	5 mm				
1 x	10 mm				
1 x	20 mm				
1 x	7 mm				
1 x	300 g				
1 x	1000 g				
1 x	200 mm				
1 x	200 mm				
1 x	200 mm				
1 x	240 mm				
1 x	210 mm				
1 x	180 mm				
1 x	160 mm				
1 x	230 mm				
1 x	5 m x 19 mm				
1 x	160 mm				

SCS chisel and hammer set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

		L mm	B mm	H mm	kg
711.1021	21 pcs	390,0	564,0	35,0	4,50
3 x	2 - 3 - 4 mm				
5 x	3 - 4 - 5 - 6 - 8 mm				
1 x	7 mm				
1 x	10 mm				
2 x	150 - 200 mm				
1 x	25 x 200 mm				
1 x	15 x 185 mm				
1 x	300 g				
1 x	1000 g				
1 x	350 g				
1 x	30 x 195 mm				
1 x	170 mm				
1 x	130 - 630 mm				
1 x	510 mm				

1/1 SCS - WORKSHOP SUPPLIES

SCS Wheel service tool set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

		L mm	B mm	H mm	kg
711.0016	16 pcs	390,0	564,0	35,0	3,84
1 x	20 - 200 Nm				
1 x	1/2"				
1 x	370 mm				
1 x	310 mm				
1 x	0,30 Nm				
1 x	0,45 Nm				
1 x	130 mm				
1 x	200 mm				
1 x	300 mm				
1 x	22 mm				
1 x	250 mm				
5 x	15 - 17 - 19 - 21 - 22 mm				

SCS pliers, hammer and file set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

		L mm	B mm	H mm	kg
711.6017	17 pcs	390,0	564,0	35,0	5,24
1 x	180 mm				
1 x	180 mm				
1 x	200 mm				
1 x	210 mm				
1 x	240 mm				
1 x	250 mm				
2 x	150 - 200 mm				
1 x	300 g				
1 x	1000 g				
1 x	200 mm				
1 x	200 mm				
1 x	200 mm				
1 x	200 mm				
1 x	170 mm				
1 x	130 - 630 mm				
1 x	5 m x 19 mm				

SCS Chisel and hammer set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

		L mm	B mm	H mm	kg
711.7017	17 pcs	390,0	564,0	35,0	4,00

5 x	3 x 4 x 5 x 6 x 8 mm
1 x	5 mm
1 x	10 mm
1 x	20 mm
1 x	7 mm
1 x	300 g
1 x	500 g
1 x	25 x 200 mm
1 x	15 x 185 mm
1 x	30 mm
1 x	170 mm
1 x	5 m
1 x	5 m x 19 mm

SCS hammer and pin punch set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

		L mm	B mm	H mm	kg
711.0017	17 pcs	390,0	564,0	35,0	2,24

1 x	10 x 11 mm
2 x	6 - 7 mm
5 x	3 - 4 - 5 - 6 - 8 mm
1 x	8 mm
2 x	125 - 175 mm
1 x	300 g
1 x	200 g
1 x	12,5 x 300 mm
1 x	225 mm
1 x	140 mm
1 x	5 m x 19 mm

SCS pliers, file and drift punch set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

		L mm	B mm	H mm	kg
711.2022	22 pcs	390,0	564,0	35,0	6,07

1 x	180 mm
1 x	180 mm
1 x	200 mm
1 x	210 mm
1 x	240 mm
1 x	250 mm
4 x	4 x 5 x 6 x 8 mm
1 x	5 mm
1 x	10 mm
1 x	20 mm
1 x	7 mm
1 x	300 g
1 x	1000 g
1 x	200 mm
1 x	200 mm
1 x	200 mm
1 x	200 mm
1 x	18 mm
1 x	5 m x 19 mm

SCS pliers and chisel set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

		L mm	B mm	H mm	kg
711.1022	22 pcs	390,0	564,0	35,0	5,20

1 x	125 mm
1 x	160 mm
1 x	180 mm
1 x	200 mm
1 x	240 mm
1 x	250 mm
1 x	180 mm
1 x	AWG 20 - 18, 16 - 14, 12 - 10
5 x	3 - 4 - 5 - 6 - 8 mm
1 x	5 mm
1 x	10 mm
1 x	20 mm
1 x	7 mm
1 x	300 g
1 x	350 g
1 x	25 x 200 mm
1 x	30 mm
1 x	170 mm

SCS ERGOTORQUE® pliers and screwdriver set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

		L mm	B mm	H mm	kg
711.8027	27 pcs	390,0	564,0	35,0	3,65

1 x	180 mm
4 x	3 - 4 - 5 - 6 mm
1 x	Ø 8 mm
2 x	125 - 175 mm
1 x	6 mm
5 x	3 - 4 - 6,5 - 8 - 10 mm
1 x	PH2 mm
2 x	PH1 - PH2
5 x	T10 - T15 - T20 - T25 - T30
1 x	2,4 mm
1 x	160 mm
1 x	180 mm
1 x	200 mm
1 x	240 mm

SCS hammer and wrench set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

		L mm	B mm	H mm	kg
711.0023	23 pcs	390,0	564,0	35,0	3,71

9 x	1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 10 - 18 mm
1 x	1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 7 - 8 - 10 mm
4 x	3 - 4 - 5 - 6 mm
1 x	8 mm
2 x	125 - 175 mm
1 x	240 mm
1 x	300g
1 x	200g
1 x	0,05 - 1 mm
1 x	510 mm
1 x	3 m

SCS ERGOTORQUE® VDE pliers and screwdriver set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

		L mm	B mm	H mm	kg
711.1033	33 pcs	390,0	564,0	35,0	6,00

1 x	160 mm
1 x	180 mm
1 x	200 mm
1 x	240 mm
1 x	6 mm
5 x	3 - 4 - 6,5 - 8 - 10 mm
1 x	2,4 mm
1 x	PH2
3 x	PH1 - PH2 - PH3
1 x	1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 7 - 8 - 10 mm
4 x	3 - 4 - 5 - 6 mm
1 x	8 mm
2 x	125 - 175 mm
1 x	300 g

SCS screwdriver and measuring instrument set

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam

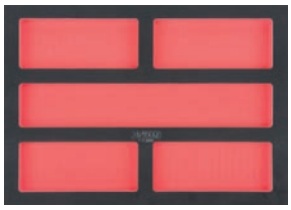
		L mm	B mm	H mm	kg
711.1041	41 pcs	390,0	564,0	35,0	3,70

1 x	6 mm
3 x	4 - 5,5 - 8 mm
1 x	PH2
3 x	PH1 - PH2 - PH3
1 x	PZ2
3 x	PZ1 - PZ2 - PZ3
1 x	230 mm
1 x	200 mm
1 x	12,5 x 300 mm
4 x	3 - 4 - 5 - 6 mm
5 x	3 - 4 - 5 - 6 - 8 mm
3 x	4 - 5 - 6 mm
1 x	5 mm
1 x	2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm
1 x	
1 x	100 mm
1 x	E1xT5 - E30xT70
1 x	0 - 150 mm
1 x	3 - 48 V

1/1 SCS - EMPTY INSERTS

SCS Universal system insert for tool or small parts (empty)

- 1/1 System insert
- Suitable for tool cabinets and tool cases
- Firm arrangement due to precise embedding
- Oil and chemical resistant
- Insert made from high quality three-coloured foam



	L mm	B mm	H mm	kg
712.0000	390,0	564,0	35,0	0,40

PU-foam sheets for self cutting

- Thickness 10 mm
- Uncut for self modelling

	L mm	B mm	H mm	kg
711.0000	390,0	564,0	35,0	0,95

Anti slip mat

- Thickness 10 mm
- Uncut for self modelling

	L mm	B mm	kg
800.0920	10000,0	600,0	2,50


HSS
M10
6g
HSSE - TIN 8.0 x 80mm
KS TOOLS
Holzblatt
150 x 6 ZPZ
Hart - und Weichholz
für Kurvenschnitte
CV
Made in Germany
M12
M10
M8
M6
M5
M4
M3
KS TOOLS
Innovation is
our mission!

COOLANT

Cooling lubricant stick

- Suitable for working with centre bits, countersinks and stepped drills
- Contents 18g
- To prolong the service life

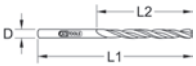
	Volume g	g
390.0190	18	44

HSS-R TWIST DRILLS

HSS-R Twist drill short

- DIN 1897 Typ N
- Right hand cutting
- Relieved cone has a ground point
- 118° pointed angle
- 20 - 30° spiral angle
- Ideally suited for thin walled working
- Black, tempered surface
- High performance steel

Ideally suitable in steel, cast steel and high and low alloyed steel up to 900 N/mm² tensile, bronze, brass, brushed aluminum alloy, graphite, nickel silver, sintered iron, malleable tempered and cast iron.

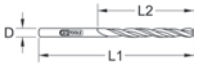


	D mm	L1 mm	L2 mm	Content	g
330.5020	2,0	38,0	12,0	10	7
330.5021	2,1	38,0	12,0	10	10
330.5022	2,2	40,0	13,0	10	12
330.5023	2,3	40,0	13,0	10	12
330.5024	2,4	43,0	14,0	10	15
330.5025	2,5	43,0	14,0	10	15
330.5026	2,6	43,0	14,0	10	16
330.5027	2,7	46,0	16,0	10	25
330.5028	2,8	46,0	16,0	10	26
330.5029	2,9	46,0	16,0	10	28
330.5030	3,0	46,0	16,0	10	30
330.5031	3,1	49,0	18,0	10	31
330.5032	3,2	49,0	18,0	10	32
330.5033	3,3	49,0	18,0	10	33
330.5034	3,4	52,0	20,0	10	34
330.5035	3,5	52,0	20,0	10	35
330.5036	3,6	52,0	20,0	10	37
330.5037	3,7	52,0	20,0	10	40
330.5038	3,8	55,0	22,0	10	42
330.5039	3,9	55,0	22,0	10	44
330.5040	4,0	55,0	22,0	10	45
330.5041	4,1	55,0	22,0	10	47
330.5042	4,2	55,0	22,0	10	49
330.5043	4,3	58,0	24,0	10	55
330.5044	4,4	58,0	24,0	10	57
330.5045	4,5	58,0	24,0	10	60
330.5046	4,6	58,0	24,0	10	62
330.5047	4,7	58,0	24,0	10	63
330.5048	4,8	62,0	26,0	10	72
330.5049	4,9	62,0	26,0	10	73
330.5050	5,0	62,0	26,0	10	75
330.5051	5,1	62,0	26,0	10	77
330.5052	5,2	62,0	26,0	10	78
330.5053	5,3	62,0	26,0	10	80
330.5054	5,4	66,0	28,0	10	95
330.5055	5,5	66,0	28,0	10	97
330.5056	5,6	66,0	28,0	10	99
330.5057	5,7	66,0	28,0	10	103
330.5058	5,8	66,0	28,0	10	105
330.5059	5,9	66,0	28,0	10	107
330.5060	6,0	66,0	28,0	10	110
330.5061	6,1	70,0	31,0	10	125
330.5062	6,2	70,0	31,0	10	128
330.5063	6,3	70,0	31,0	10	130
330.5064	6,4	70,0	31,0	10	133
330.5065	6,5	70,0	31,0	10	135
330.5066	6,6	70,0	31,0	10	138
330.5067	6,7	70,0	31,0	10	140
330.5068	6,8	74,0	34,0	10	170
330.5069	6,9	74,0	34,0	10	175
330.5070	7,0	74,0	34,0	10	180
330.5071	7,1	74,0	34,0	10	183
330.5072	7,2	74,0	34,0	10	185
330.5073	7,3	74,0	34,0	10	187
330.5074	7,4	74,0	34,0	10	188
330.5075	7,5	74,0	34,0	10	190
330.5076	7,6	79,0	36,0	10	220
330.5077	7,7	79,0	36,0	10	225
330.5078	7,8	79,0	36,0	10	230
330.5079	7,9	79,0	36,0	10	235
330.5080	8,0	79,0	36,0	10	240
330.5085	8,5	79,0	36,0	10	270
330.5090	9,0	84,0	40,0	10	310
330.5095	9,5	84,0	40,0	10	360
330.5100	10,0	89,0	43,0	10	420

HSS-R Twist drill

- DIN 338 Typ N
- Right hand cutting
- Relieved cone has a ground point
- 118° pointed angle
- 20 - 30° spiral angle
- Black, tempered surface
- High performance steel

Ideally suitable in steel, cast steel and high and low alloyed steel up to 900 N/mm² tensile, bronze, brass, brushed aluminum alloy, graphite, nickel silver, sintered iron malleable tempered and cast iron.



	D mm	L1 mm	L2 mm	Content	g
330.1003	0,3	19,0	3,0	10	1
330.1004	0,4	20,0	5,0	10	1
330.1005	0,5	22,0	6,0	10	1
330.1006	0,6	24,0	7,0	10	1
330.1007	0,7	28,0	9,0	10	1
330.1008	0,8	30,0	10,0	10	1
330.1009	0,9	32,0	11,0	10	1
330.1010	1,0	34,0	12,0	10	5
330.1011	1,1	36,0	14,0	10	5
330.1012	1,2	38,0	16,0	10	5
330.1013	1,3	38,0	16,0	10	5
330.1014	1,4	40,0	18,0	10	5
330.1015	1,5	40,0	18,0	10	5
330.1016	1,6	43,0	20,0	10	10
330.1017	1,7	43,0	20,0	10	10
330.1018	1,8	46,0	22,0	10	10
330.1019	1,9	46,0	22,0	10	10
330.1020	2,0	49,0	24,0	10	10
330.1021	2,1	49,0	24,0	10	20
330.1022	2,2	53,0	27,0	10	20
330.1023	2,3	53,0	27,0	10	20
330.1024	2,4	57,0	30,0	10	20
330.1025	2,5	57,0	30,0	10	20
330.1026	2,6	57,0	30,0	10	40
330.1027	2,7	61,0	33,0	10	40
330.1028	2,8	61,0	33,0	10	40
330.1029	2,9	61,0	33,0	10	40
330.1030	3,0	65,0	33,0	10	40
330.1031	3,1	65,0	36,0	10	40
330.1032	3,2	65,0	36,0	10	40
330.1033	3,3	70,0	36,0	10	40
330.1034	3,4	70,0	39,0	10	40
330.1035	3,5	70,0	39,0	10	40
330.1036	3,6	70,0	39,0	10	50
330.1037	3,7	70,0	39,0	10	50
330.1038	3,8	75,0	43,0	10	50
330.1039	3,9	75,0	43,0	10	50
330.1040	4,0	75,0	43,0	10	50
330.1041	4,1	75,0	43,0	10	80
330.1042	4,2	75,0	43,0	10	80
330.1043	4,3	80,0	47,0	10	80
330.1044	4,4	80,0	47,0	10	80
330.1045	4,5	80,0	47,0	10	80
330.1046	4,6	80,0	47,0	10	100
330.1047	4,7	80,0	47,0	10	100
330.1048	4,8	86,0	52,0	10	100
330.1049	4,9	86,0	52,0	10	100
330.1050	5,0	86,0	52,0	10	100
330.1051	5,1	86,0	52,0	10	130
330.1052	5,2	86,0	52,0	10	130
330.1053	5,3	86,0	52,0	10	130
330.1054	5,4	93,0	57,0	10	130
330.1055	5,5	93,0	57,0	10	130
330.1056	5,6	93,0	57,0	10	150
330.1057	5,7	93,0	57,0	10	150
330.1058	5,8	93,0	57,0	10	150
330.1059	5,9	93,0	57,0	10	150
330.1060	6,0	93,0	57,0	10	150
330.1061	6,1	101,0	63,0	10	180
330.1062	6,2	101,0	63,0	10	180
330.1063	6,3	101,0	63,0	10	180
330.1064	6,4	101,0	63,0	10	180
330.1065	6,5	101,0	63,0	10	180
330.1066	6,6	101,0	63,0	10	250
330.1067	6,7	101,0	63,0	10	250
330.1068	6,8	109,0	69,0	10	250
330.1069	6,9	109,0	69,0	10	250
330.1070	7,0	109,0	69,0	10	250
330.1071	7,1	109,0	69,0	10	260
330.1072	7,2	109,0	69,0	10	260
330.1073	7,3	109,0	69,0	10	260
330.1074	7,4	109,0	69,0	10	260
330.1075	7,5	109,0	69,0	10	260
330.1076	7,6	117,0	75,0	10	330
330.1077	7,7	117,0	75,0	10	330
330.1078	7,8	117,0	75,0	10	330
330.1079	7,9	117,0	75,0	10	330
330.1080	8,0	117,0	75,0	10	330
330.1081	8,1	117,0	75,0	10	350
330.1082	8,2	117,0	75,0	10	350
330.1083	8,3	117,0	75,0	10	350
330.1084	8,4	117,0	75,0	10	350
330.1085	8,5	117,0	75,0	10	350
330.1086	8,6	125,0	81,0	10	430
330.1087	8,7	125,0	81,0	10	430
330.1088	8,8	125,0	81,0	10	430
330.1089	8,9	125,0	81,0	10	430
330.1090	9,0	125,0	81,0	10	430
330.1091	9,1	125,0	81,0	10	480
330.1092	9,2	125,0	81,0	10	480
330.1093	9,3	125,0	81,0	10	480
330.1094	9,4	125,0	81,0	10	480
330.1095	9,5	125,0	81,0	10	480
330.1096	9,6	133,0	87,0	10	275
330.1097	9,7	133,0	87,0	10	275
330.1098	9,8	133,0	87,0	10	275
330.1099	9,9	133,0	87,0	10	275
330.1100	10,0	133,0	87,0	5	275
330.1101	10,1	133,0	87,0	5	300
330.1102	10,2	133,0	87,0	5	300
330.1103	10,3	133,0	87,0	5	300
330.1104	10,4	133,0	87,0	5	300
330.1105	10,5	133,0	87,0	5	300
330.1106	10,6	142,0	94,0	5	350
330.1107	10,7	142,0	94,0	5	350
330.1108	10,8	142,0	94,0	5	350
330.1109	10,9	142,0	94,0	5	350
330.1110	11,0	142,0	94,0	5	350

	D mm	L1 mm	L2 mm	Content	g
330.1111	11,1	142,0	94,0	5	385
330.1112	11,2	142,0	94,0	5	385
330.1113	11,3	142,0	94,0	5	385
330.1114	11,4	142,0	94,0	5	385
330.1115	11,5	142,0	94,0	5	385
330.1116	11,6	142,0	94,0	5	440
330.1117	11,7	142,0	94,0	5	440
330.1118	11,8	142,0	94,0	5	440
330.1119	11,9	151,0	101,0	5	440
330.1120	12,0	151,0	101,0	5	440
330.1121	12,1	151,0	101,0	5	490
330.1122	12,2	151,0	101,0	5	490
330.1123	12,3	151,0	101,0	5	490
330.1124	12,4	151,0	101,0	5	490
330.1125	12,5	151,0	101,0	5	490
330.1126	12,6	151,0	101,0	5	515
330.1127	12,7	151,0	101,0	5	515
330.1128	12,8	151,0	101,0	5	515
330.1129	12,9	151,0	101,0	5	515
330.1130	13,0	151,0	101,0	5	515
330.1135	13,5	160,0	108,0	1	110
330.1140	14,0	160,0	108,0	1	115
330.1145	14,5	169,0	114,0	1	120
330.1150	15,0	169,0	114,0	1	125
330.1155	15,5	178,0	120,0	1	130
330.1160	16,0	178,0	120,0	1	135
330.1165	16,5	184,0	125,0	1	140
330.1170	17,0	184,0	125,0	1	145
330.1175	17,5	191,0	130,0	1	150
330.1180	18,0	191,0	130,0	1	155
330.1185	18,5	198,0	135,0	1	160
330.1190	19,0	198,0	135,0	1	165
330.1195	19,5	205,0	140,0	1	170
330.1200	20,0	205,0	140,0	1	175

HSS-R Twist drill set in metal case

- High strength hinge
- DIN 338 Typ N
- Right hand cutting
- Relieved cone has a ground point
- 118° pointed angle
- 20 - 30° spiral angle
- Black, tempered surface
- High performance steel

Ideally suitable in steel, cast steel and high and low alloyed steel up to 900 N/mm² tensile, bronze, brass, brushed aluminum alloy, graphite, nickel silver, sintered iron, malleable tempered and cast iron.

			kg
330.1610	19 pcs	1,0 - 1,5 - 2,0 - 2,5 - 3,0 - 3,5 - 4,0 - 4,5 - 5,0 - 5,5 - 6,0 - 6,5 - 7,0 - 7,5 - 8,0 - 8,5 - 9,0 - 9,5 - 10,0 mm	0,60

HSS-R Twist drill set in plastic case

- Stackable for storage
- With integral clasp
- High strength hinge
- DIN 338 Typ N
- Right hand cutting
- Relieved cone has a ground point
- 118° pointed angle
- 20 - 30° spiral angle
- Black, tempered surface
- High performance steel

Ideally suitable in steel, cast steel and high and low alloyed steel up to 900 N/mm² tensile, bronze, brass, brushed aluminum alloy, graphite, nickel silver, sintered iron, malleable tempered and cast iron.

			kg
330.1620	19 pcs	1,0 - 1,5 - 2,0 - 2,5 - 3,0 - 3,5 - 4,0 - 4,5 - 5,0 - 5,5 - 6,0 - 6,5 - 7,0 - 7,5 - 8,0 - 8,5 - 9,0 - 9,5 - 10,0 mm	0,60

HSS-R Twist drill set in metal case

- High strength hinge
- DIN 338 Typ N
- Right hand cutting
- Relieved cone has a ground point
- 118° pointed angle
- 20 - 30° spiral angle
- Black, tempered surface
- High performance steel

Ideally suitable in steel, cast steel and high and low alloyed steel up to 900 N/mm² tensile, bronze, brass, brushed aluminum alloy, graphite, nickel silver, sintered iron, malleable tempered and cast iron.

			kg
330.1613	25 pcs	1,0 - 1,5 - 2,0 - 2,5 - 3,0 - 3,5 - 4,0 - 4,5 - 5,0 - 5,5 - 6,0 - 6,5 - 7,0 - 7,5 - 8,0 - 8,5 - 9,0 - 9,5 - 10,0 - 10,5 - 11,0 - 11,5 - 12,0 - 12,5 - 13,0 mm	1,30

HSS-R Twist drill set in plastic case

- Stackable for storage
- With integral clasp
- High strength hinge
- DIN 338 Typ N
- Right hand cutting
- Relieved cone has a ground point
- 118° pointed angle
- 20 - 30° spiral angle
- Black, tempered surface
- High performance steel

Ideally suitable in steel, cast steel and high and low alloyed steel up to 900 N/mm² tensile, bronze, brass, brushed aluminum alloy, graphite, nickel silver, sintered iron, malleable tempered and cast iron.

			kg
330.1623	25 pcs	1,0 - 1,5 - 2,0 - 2,5 - 3,0 - 3,5 - 4,0 - 4,5 - 5,0 - 5,5 - 6,0 - 6,5 - 7,0 - 7,5 - 8,0 - 8,5 - 9,0 - 9,5 - 10,0 - 10,5 - 11,0 - 11,5 - 12,0 - 12,5 - 13,0 mm	3,35

HSS-R Twist drill set in metal case

- With integral clasp
- High strength hinge
- DIN 338 Typ N
- Right hand cutting
- Relieved cone has a ground point
- 118° pointed angle
- 20 - 30° spiral angle
- Black, tempered surface
- High performance steel

Ideally suitable in steel, cast steel and high and low alloyed steel up to 900 N/mm² tensile, bronze, brass, brushed aluminum alloy, graphite, nickel silver, sintered iron, malleable tempered and cast iron.

			kg
330.1640	170 pcs	per 10 x: 1,0 - 1,5 - 2,0 - 2,5 - 3,0 - 3,5 - 4,0 - 4,5 - 5,0 - 5,5 - 6,0 - 6,5 - 7,0 - 7,5 - 8,0 per 5 x: 8,5 - 9,0 - 9,5 - 10,0 mm	4,15

HSS-R Twist drill set in metal case

- With integral clasp
- High strength hinge
- DIN 338 Typ N
- Right hand cutting
- Relieved cone has a ground point
- 118° pointed angle
- 20 - 30° spiral angle
- Black, tempered surface
- High performance steel

Ideally suitable in steel, cast steel and high and low alloyed steel up to 900 N/mm² tensile, bronze, brass, brushed aluminum alloy, graphite, nickel silver, sintered iron, malleable tempered and cast iron.

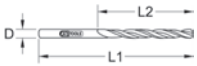
			kg	
330.1650	230 pcs	per 10 x: 1,0 - 1,5 - 2,0 - 2,5 - 3,0 - 3,3 - 3,5 - 4,0 - 4,2 - 4,5 - 5,0 - 5,5 - 6,0 - 6,5 - 6,8 - 7,0 - 7,5 - 8,0 per 5 x: 8,5 - 9,0 - 9,5 - 10,0 - 10,5 - 11,0 - 11,5 - 12,0 - 12,5 - 13,0 mm	7,40	

HSS-G TWIST DRILLS

HSS-G Twist drill

- DIN 338 Typ N
- Right hand cutting
- Relieved cone has a ground point
- Cutting edge has thinning point
- 118° pointed angle
- 20 - 30° spiral angle
- High concentricity accuracy
- Surface without discolouration
- High performance steel

Ideally suitable in steel, cast steel and high and low alloyed steel up to 900 N/mm² tensile, bronze brass, brushed aluminum alloy, graphite, nickel silver, sintered iron, malleable tempered and cast iron.

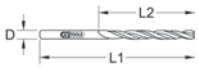


	D mm	L1 mm	L2 mm	Content	g	
330.2003	0,3	19,0	3,0	10	1	
330.2004	0,4	20,0	5,0	10	1	
330.2005	0,5	22,0	6,0	10	1	
330.2006	0,6	24,0	7,0	10	1	
330.2007	0,7	28,0	9,0	10	1	
330.2008	0,8	30,0	10,0	10	1	
330.2009	0,9	32,0	11,0	10	1	
330.2010	1,0	34,0	12,0	10	1	
330.2011	1,1	36,0	14,0	10	1	
330.2012	1,2	38,0	16,0	10	1	
330.2013	1,3	38,0	16,0	10	1	
330.2014	1,4	40,0	18,0	10	1	
330.2015	1,5	40,0	18,0	10	20	
330.2016	1,6	43,0	20,0	10	10	
330.2017	1,7	43,0	20,0	10	10	
330.2018	1,8	46,0	22,0	10	10	
330.2019	1,9	46,0	22,0	10	10	
330.2020	2,0	49,0	24,0	10	10	
330.2021	2,1	49,0	24,0	10	20	
330.2022	2,2	53,0	27,0	10	20	
330.2023	2,3	53,0	27,0	10	20	
330.2024	2,4	57,0	30,0	10	20	
330.2025	2,5	57,0	30,0	10	20	
330.2026	2,6	61,0	30,0	10	40	
330.2027	2,7	61,0	33,0	10	40	
330.2028	2,8	61,0	33,0	10	40	
330.2029	2,9	61,0	33,0	10	40	
330.2030	3,0	61,0	33,0	10	40	
330.2031	3,1	65,0	36,0	10	40	
330.2032	3,2	65,0	36,0	10	40	
330.2033	3,3	65,0	36,0	10	40	
330.2034	3,4	70,0	39,0	10	40	
330.2035	3,5	70,0	39,0	10	40	
330.2036	3,6	70,0	39,0	10	50	
330.2037	3,7	70,0	39,0	10	50	
330.2038	3,8	75,0	43,0	10	50	
330.2039	3,9	75,0	43,0	10	50	
330.2040	4,0	75,0	43,0	10	50	
330.2041	4,1	75,0	43,0	10	80	
330.2042	4,2	75,0	43,0	10	80	
330.2043	4,3	80,0	47,0	10	80	
330.2044	4,4	80,0	47,0	10	80	
330.2045	4,5	80,0	47,0	10	80	
330.2046	4,6	80,0	47,0	10	100	
330.2047	4,7	80,0	47,0	10	100	
330.2048	4,8	86,0	52,0	10	100	
330.2049	4,9	86,0	52,0	10	100	
330.2050	5,0	86,0	52,0	10	100	
330.2051	5,1	86,0	52,0	10	130	
330.2052	5,2	86,0	52,0	10	130	
330.2053	5,3	86,0	52,0	10	130	
330.2054	5,4	93,0	57,0	10	130	
330.2055	5,5	93,0	57,0	10	130	
330.2056	5,6	93,0	57,0	10	150	
330.2057	5,7	93,0	57,0	10	150	
330.2058	5,8	93,0	57,0	10	150	
330.2059	5,9	93,0	57,0	10	150	
330.2060	6,0	93,0	57,0	10	150	
330.2061	6,1	101,0	63,0	10	180	
330.2062	6,2	101,0	63,0	10	180	
330.2063	6,3	101,0	63,0	10	180	
330.2064	6,4	101,0	63,0	10	180	
330.2065	6,5	101,0	63,0	10	180	
330.2066	6,6	101,0	63,0	10	250	
330.2067	6,7	101,0	63,0	10	250	
330.2068	6,8	109,0	69,0	10	250	
330.2069	6,9	109,0	69,0	10	250	
330.2070	7,0	109,0	69,0	10	250	
330.2071	7,1	109,0	69,0	10	260	
330.2072	7,2	109,0	69,0	10	260	
330.2073	7,3	109,0	69,0	10	260	
330.2074	7,4	109,0	69,0	10	260	
330.2075	7,5	109,0	69,0	10	260	
330.2076	7,6	117,0	75,0	10	330	
330.2077	7,7	117,0	75,0	10	330	
330.2078	7,8	117,0	75,0	10	330	
330.2079	7,9	117,0	75,0	10	330	
330.2080	8,0	117,0	75,0	10	330	
330.2081	8,1	117,0	75,0	10	350	
330.2082	8,2	117,0	75,0	10	350	
330.2083	8,3	117,0	75,0	10	350	
330.2084	8,4	117,0	75,0	10	350	
330.2085	8,5	117,0	75,0	10	350	
330.2086	8,6	125,0	81,0	10	430	
330.2087	8,7	125,0	81,0	10	403	
330.2088	8,8	125,0	81,0	10	430	
330.2089	8,9	125,0	81,0	10	430	
330.2090	9,0	125,0	81,0	10	430	
330.2091	9,1	125,0	81,0	10	480	
330.2092	9,2	125,0	81,0	10	480	
330.2093	9,3	125,0	81,0	10	480	
330.2094	9,4	125,0	81,0	10	480	
330.2095	9,5	125,0	81,0	10	480	
330.2096	9,6	133,0	87,0	10	275	
330.2097	9,7	133,0	87,0	10	275	
330.2098	9,8	133,0	87,0	10	275	
330.2099	9,9	133,0	87,0	10	275	
330.2100	10,0	133,0	87,0	5	275	
330.2101	10,1	133,0	87,0	5	300	
330.2102	10,2	133,0	87,0	5	300	
330.2103	10,3	133,0	87,0	5	300	
330.2104	10,4	133,0	87,0	5	300	
330.2105	10,5	133,0	87,0	5	300	
330.2106	10,6	133,0	87,0	5	350	
330.2107	10,7	142,0	94,0	5	350	
330.2108	10,8	142,0	94,0	5	350	
330.2109	10,9	142,0	94,0	5	350	
330.2110	11,0	142,0	94,0	5	350	
330.2111	11,1	142,0	94,0	5	385	
330.2112	11,2	142,0	94,0	5	385	
330.2113	11,3	142,0	94,0	5	385	
330.2114	11,4	142,0	94,0	5	385	
330.2115	11,5	142,0	94,0	5	385	
330.2116	11,6	142,0	94,0	5	440	
330.2117	11,7	142,0	94,0	5	440	
330.2118	11,8	142,0	94,0	5	440	
330.2119	11,9	151,0	101,0	5	440	
330.2120	12,0	151,0	101,0	5	440	
330.2121	12,1	151,0	101,0	5	490	
330.2122	12,2	151,0	101,0	5	490	
330.2123	12,3	151,0	101,0	5	490	
330.2124	12,4	151,0	101,0	5	490	
330.2125	12,5	151,0	101,0	5	490	
330.2126	12,6	151,0	101,0	5	515	
330.2127	12,7	151,0	101,0	5	515	
330.2128	12,8	151,0	101,0	5	515	
330.2129	12,9	151,0	101,0	5	515	
330.2130	13,0	151,0	101,0	5	515	
330.2135	13,5	160,0	108,0	1	110	
330.2140	14,0	160,0	108,0	1	115	
330.2145	14,5	169,0	114,0	1	120	
330.2150	15,0	169,0	114,0	1	125	
330.2155	15,5	178,0	120,0	1	130	
330.2160	16,0	178,0	120,0	1	135	

HSS-G Twist drill, long

- DIN 340 Typ N
- Right hand cutting
- Relieved cone has a ground point
- 118° pointed angle
- 20 - 30° spiral angle
- High concentricity accuracy
- Surface without discolouration
- High performance steel

Ideally suitable in steel cast steel and high and low alloyed steel up to 900 N/mm² tensile, bronze, brass, brushed aluminum alloy, graphite, nickel silver, sintered iron, malleable tempered tempered and cast iron.



	D mm	L1 mm	L2 mm	Content	g	
330.7025	2,5	95,0	62,0	10	40	
330.7030	3,0	100,0	66,0	10	50	
330.7031	3,1	106,0	69,0	10	50	
330.7032	3,2	106,0	69,0	10	60	
330.7033	3,3	106,0	69,0	10	65	
330.7034	3,4	112,0	73,0	10	65	
330.7035	3,5	112,0	73,0	10	70	
330.7036	3,6	112,0	73,0	10	75	
330.7037	3,7	112,0	73,0	10	75	
330.7038	3,8	119,0	78,0	10	80	
330.7039	3,9	119,0	78,0	10	80	
330.7040	4,0	119,0	78,0	10	85	
330.7041	4,1	119,0	78,0	10	90	
330.7042	4,2	119,0	78,0	10	95	
330.7043	4,3	126,0	82,0	10	110	
330.7044	4,4	126,0	82,0	10	115	
330.7045	4,5	126,0	82,0	10	120	
330.7046	4,6	126,0	82,0	10	130	
330.7047	4,7	126,0	82,0	10	135	
330.7048	4,8	132,0	87,0	10	140	

	D mm	L1 mm	L2 mm	Content	g
330.7049	4,9	132,0	87,0	10	145
330.7050	5,0	132,0	87,0	10	150
330.7051	5,1	132,0	87,0	10	150
330.7052	5,2	132,0	87,0	10	160
330.7053	5,3	132,0	87,0	10	170
330.7054	5,4	139,0	91,0	10	190
330.7055	5,5	139,0	91,0	10	195
330.7056	5,6	139,0	91,0	10	200
330.7057	5,7	139,0	91,0	10	205
330.7058	5,8	139,0	91,0	10	210
330.7059	5,9	139,0	91,0	10	220
330.7060	6,0	139,0	91,0	10	225
330.7061	6,1	148,0	97,0	10	255
330.7062	6,2	148,0	97,0	10	260
330.7063	6,3	148,0	97,0	10	265
330.7064	6,4	148,0	97,0	10	270
330.7065	6,5	148,0	97,0	10	270
330.7066	6,6	148,0	97,0	10	275
330.7067	6,7	148,0	97,0	10	275
330.7068	6,8	156,0	102,0	10	360
330.7069	6,9	156,0	102,0	10	370
330.7070	7,0	156,0	102,0	10	375
330.7071	7,1	156,0	102,0	10	380
330.7072	7,2	156,0	102,0	10	380
330.7073	7,3	156,0	102,0	10	385
330.7074	7,4	156,0	102,0	10	390
330.7075	7,5	156,0	102,0	10	390
330.7076	7,6	165,0	109,0	10	480
330.7077	7,7	165,0	109,0	10	485
330.7078	7,8	165,0	109,0	10	485
330.7079	7,9	165,0	109,0	10	490
330.7080	8,0	165,0	109,0	10	495
330.7081	8,1	165,0	109,0	10	500
330.7082	8,2	165,0	109,0	10	505
330.7083	8,3	165,0	109,0	10	510
330.7084	8,4	165,0	109,0	10	520
330.7085	8,5	165,0	109,0	10	525
330.7086	8,6	175,0	115,0	10	620
330.7087	8,7	175,0	115,0	10	630
330.7088	8,8	175,0	115,0	10	635
330.7089	8,9	175,0	115,0	10	640
330.7090	9,0	175,0	115,0	10	645
330.7091	9,1	175,0	115,0	10	660
330.7092	9,2	175,0	115,0	10	670
330.7093	9,3	175,0	115,0	10	680
330.7094	9,4	175,0	115,0	10	690
330.7095	9,5	175,0	115,0	10	720
330.7096	9,6	184,0	121,0	10	800
330.7097	9,7	184,0	121,0	10	810
330.7098	9,8	184,0	121,0	10	815
330.7099	9,9	184,0	121,0	10	820
330.7100	10,0	184,0	121,0	10	825
330.7105	10,5	184,0	121,0	5	450
330.7110	11,0	195,0	128,0	5	525
330.7115	11,5	195,0	128,0	5	575
330.7120	12,0	205,0	134,0	5	660
330.7125	12,5	205,0	134,0	5	735
330.7130	13,0	205,0	134,0	5	765

HSS-G Twist drill set in metal case

- High strength hinge
- DIN 338 Typ N
- Right hand cutting
- Relieved cone has a ground point
- Cutting edge has thinning point
- 118° pointed angle
- 20 - 30° spiral angle
- High concentricity accuracy
- Surface without discolouration
- High performance steel

Ideally suitable in steel, cast steel and high and low alloyed steel up to 900 N/mm² tensile, bronze, brass, brushed aluminum alloy, graphite, nickel silver, sintered iron, malleable tempered and cast iron.

			kg
330.2610	19 pcs	1,0 - 1,5 - 2,0 - 2,5 - 3,0 - 3,5 - 4,0 - 4,5 - 5,0 - 5,5 - 6,0 - 6,5 - 7,0 - 7,5 - 8,0 - 8,5 - 9,0 - 9,5 - 10,0 mm	0,60

HSS-G Twist drill set in metal case

- High strength hinge
- DIN 338 Typ N
- Right hand cutting
- Relieved cone has a ground point
- Cutting edge has thinning point
- 118° pointed angle
- 20 - 30° spiral angle
- High concentricity accuracy
- Surface without discolouration
- High performance steel

Ideally suitable in steel cast steel and high and low alloyed steel up to 900 N/mm² tensile Bronze, brass, brushed aluminium alloy, graphite, nickel silver, sintered iron, malleable tempered and cast iron.

			kg
330.2613	25 pcs	1,0 - 1,5 - 2,0 - 2,5 - 3,0 - 3,5 - 4,0 - 4,5 - 5,0 - 5,5 - 6,0 - 6,5 - 7,0 - 7,5 - 8,0 - 8,5 - 9,0 - 9,5 - 10,0 - 10,5 - 11,0 - 11,5 - 12,0 - 12,5 - 13,0 mm	1,30

HSS-G Twist drill set in plastic case

- Stackable for storage
- With integral clasp
- High strength hinge
- DIN 338 Typ N
- Right hand cutting
- Relieved cone has a ground point
- Cutting edge has thinning point
- 118° pointed angle
- 20 - 30° spiral angle
- High concentricity accuracy
- Surface without discolouration
- High performance steel

Ideally suitable in steel, cast steel and high and low alloyed steel up to 900 N/mm² tensile, bronze, brass, brushed aluminum alloy, graphite, nickel silver, sintered iron, malleable tempered and cast iron.

			kg
330.2620	19 pcs	1,0 - 1,5 - 2,0 - 2,5 - 3,0 - 3,5 - 4,0 - 4,5 - 5,0 - 5,5 - 6,0 - 6,5 - 7,0 - 7,5 - 8,0 - 8,5 - 9,0 - 9,5 - 10,0 mm	0,60

HSS-G Twist drill set in plastic case

- Stackable for storage
- With integral clasp
- High strength hinge
- DIN 338 Typ N
- Right hand cutting
- Relieved cone has a ground point
- Cutting edge has thinning point
- 118° pointed angle
- 20 - 30° spiral angle
- High concentricity accuracy
- Surface without discolouration
- High performance steel

Ideally suitable in steel, cast steel and high and low alloyed steel up to 900 N/mm² tensile, bronze, brass, brushed aluminum alloy, graphite, nickel silver, sintered iron, malleable tempered and cast iron.

			kg
330.2623	25 pcs	1,0 - 1,5 - 2,0 - 2,5 - 3,0 - 3,5 - 4,0 - 4,5 - 5,0 - 5,5 - 6,0 - 6,5 - 7,0 - 7,5 - 8,0 - 8,5 - 9,0 - 9,5 - 10,0 - 10,5 - 11,0 - 11,5 - 12,0 - 12,5 - 13,0 mm	1,30

HSS-G Twist drill set in metal case

- With integral clasp
- High strength hinge
- DIN 338 Typ N
- Right hand cutting
- Relieved cone has a ground point
- Cutting edge has thinning point
- 118° pointed angle
- 20 - 30° spiral angle
- High concentricity accuracy
- Surface without discolouration
- High performance steel

Ideally suitable in steel, cast steel and high and low alloyed steel up to 900 N/mm² tensile, bronze, brass, brushed aluminum alloy, graphite, nickel silver, sintered iron, malleable tempered and cast iron.

			kg	
330.2640	170 pcs	per 10 x: 1,0 - 1,5 - 2,0 - 2,5 - 3,0 - 3,5 - 4,0 - 4,5 - 5,0 - 5,5 - 6,0 - 6,5 - 7,0 - 7,5 - 8,0 per 5 x: 8,5 - 9,0 - 9,5 - 10,0 mm	4,15	

HSS-G Twist drill set in metal case

- With integral clasp
- High strength hinge
- DIN 338 Typ N
- Right hand cutting
- Relieved cone has a ground point
- Cutting edge has thinning point
- 118° pointed angle
- 20 - 30° spiral angle
- High concentricity accuracy
- Surface without discolouration
- High performance steel

Ideally suitable in steel, cast steel and high and low alloyed steel up to 900 N/mm² tensile, bronze, brass, brushed aluminum alloy, graphite, nickel silver, sintered iron, malleable tempered and cast iron.

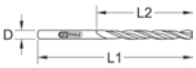
			kg	
330.2650	230 pcs	per 10 x: 1,0 - 1,5 - 2,0 - 2,5 - 3,0 - 3,2 - 3,5 - 4,0 - 4,2 - 4,5 - 5,0 - 5,5 - 6,0 - 6,5 - 6,8 - 7,0 - 7,5 - 8,0 per 5 x: 8,5 - 9,0 - 9,5 - 10,0 - 10,5 - 11,0 - 11,5 - 12,0 - 12,5 - 13,0 mm	7,40	

HSS-G CO TWIST DRILLS

HSS-G Co 5 Twist drill short

- DIN 1897 Typ N
- Right hand cutting
- Relieved cone has a ground point
- From 3 mm split point according to DIN 1412 C
- 135 ° pointed angle
- 20 - 30° spiral angle
- Gold coated surface
- High performance steel

Ideally suitable in steel, cast steel l up to 1,100 N/mm² tensile, rust and acid steady steels, V2a, V4a, cast and tempered iron.

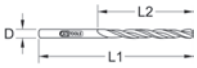


	D mm	L1 mm	L2 mm	Content	g	
330.6020	2,0	38,0	12,0	10	7	
330.6025	2,5	43,0	14,0	10	15	
330.6030	3,0	46,0	16,0	10	30	
330.6031	3,1	49,0	18,0	10	31	
330.6032	3,2	49,0	18,0	10	32	
330.6033	3,3	49,0	18,0	10	33	
330.6034	3,4	52,0	20,0	10	34	
330.6035	3,5	52,0	20,0	10	35	
330.6036	3,6	52,0	20,0	10	37	
330.6037	3,7	52,0	20,0	10	40	
330.6038	3,8	55,0	22,0	10	42	
330.6039	3,9	55,0	22,0	10	44	
330.6040	4,0	55,0	22,0	10	45	
330.6041	4,1	55,0	22,0	10	47	
330.6042	4,2	55,0	22,0	10	49	
330.6043	4,3	58,0	24,0	10	55	
330.6044	4,4	58,0	24,0	10	57	
330.6045	4,5	58,0	24,0	10	60	
330.6046	4,6	58,0	24,0	10	62	
330.6047	4,7	58,0	24,0	10	63	
330.6048	4,8	62,0	26,0	10	72	
330.6049	4,9	62,0	26,0	10	73	
330.6050	5,0	62,0	26,0	10	75	
330.6051	5,1	62,0	26,0	10	77	
330.6052	5,2	62,0	26,0	10	78	
330.6053	5,3	62,0	26,0	10	80	
330.6054	5,4	66,0	28,0	10	95	
330.6055	5,5	66,0	28,0	10	97	
330.6056	5,6	66,0	28,0	10	99	
330.6057	5,7	66,0	28,0	10	103	
330.6058	5,8	66,0	28,0	10	105	
330.6059	5,9	66,0	28,0	10	107	
330.6060	6,0	66,0	28,0	10	110	
330.6061	6,1	70,0	31,0	10	125	
330.6062	6,2	70,0	31,0	10	128	
330.6063	6,3	70,0	31,0	10	130	
330.6064	6,4	70,0	31,0	10	133	
330.6065	6,5	70,0	31,0	10	135	
330.6066	6,6	70,0	31,0	10	138	
330.6067	6,7	70,0	31,0	10	140	
330.6068	6,8	74,0	34,0	10	170	
330.6069	6,9	74,0	34,0	10	175	
330.6070	7,0	74,0	34,0	10	180	
330.6071	7,1	74,0	34,0	10	183	
330.6072	7,2	74,0	34,0	10	185	
330.6073	7,3	74,0	34,0	10	187	
330.6074	7,4	74,0	34,0	10	188	
330.6075	7,5	74,0	34,0	10	190	
330.6076	7,6	79,0	36,0	10	220	
330.6077	7,7	79,0	36,0	10	225	
330.6078	7,8	79,0	36,0	10	230	
330.6079	7,9	79,0	36,0	10	235	
330.6080	8,0	79,0	36,0	10	240	
330.6085	8,5	79,0	36,0	10	270	
330.6090	9,0	84,0	40,0	10	310	
330.6095	9,5	84,0	40,0	10	360	
330.6100	10,0	89,0	43,0	10	420	
330.6102	10,2	89,0	43,0	10	435	
330.6105	10,5	89,0	43,0	5	210	
330.6110	11,0	95,0	47,0	5	255	
330.6115	11,5	95,0	47,0	5	260	
330.6120	12,0	102,0	51,0	5	285	
330.6125	12,5	102,0	51,0	5	290	
330.6130	13,0	102,0	51,0	5	295	

HSS-G Co 5 Twist drill

- DIN 338 Typ N
- Right hand cutting
- Relieved cone has a ground point
- Cutting edge has thinning point
- 130° pointed angle
- 20 - 30° spiral angle
- High heat hardness constancy
- For heavy loading
- Gold coated surface
- High performance cobalt steel

Ideally usably in high and low alloyed steel up to 1,100 N/mm² tensile, compensation steel and stainless steel, rustproof and acid steady steel and warm and cold forged steel.



	D mm	L1 mm	L2 mm	Content	g	
330.3003	0,3	19,0	3,0	10	1	
330.3004	0,4	20,0	5,0	10	1	
330.3005	0,5	22,0	6,0	10	1	
330.3006	0,6	24,0	7,0	10	1	
330.3007	0,7	28,0	9,0	10	1	
330.3008	0,8	30,0	10,0	10	1	
330.3009	0,9	32,0	11,0	10	1	
330.3010	1,0	34,0	12,0	10	1	
330.3011	1,1	36,0	14,0	10	1	
330.3012	1,2	38,0	16,0	10	1	
330.3013	1,3	38,0	16,0	10	1	
330.3014	1,4	40,0	18,0	10	1	
330.3015	1,5	40,0	18,0	10	1	
330.3016	1,6	43,0	20,0	10	1	
330.3017	1,7	43,0	20,0	10	10	
330.3018	1,8	46,0	22,0	10	10	
330.3019	1,9	46,0	22,0	10	10	
330.3020	2,0	49,0	24,0	10	10	
330.3021	2,1	49,0	24,0	10	10	
330.3022	2,2	53,0	27,0	10	10	
330.3023	2,3	53,0	27,0	10	20	
330.3024	2,4	57,0	30,0	10	20	
330.3025	2,5	57,0	30,0	10	20	
330.3026	2,6	57,0	30,0	10	40	
330.3027	2,7	61,0	33,0	10	40	
330.3028	2,8	61,0	33,0	10	40	
330.3029	2,9	61,0	33,0	10	40	
330.3030	3,0	61,0	33,0	10	40	
330.3031	3,1	65,0	36,0	10	40	
330.3032	3,2	65,0	36,0	10	40	
330.3033	3,3	65,0	36,0	10	40	
330.3034	3,4	70,0	39,0	10	40	
330.3035	3,5	70,0	39,0	10	40	
330.3036	3,6	70,0	39,0	10	50	
330.3037	3,7	70,0	39,0	10	50	
330.3038	3,8	75,0	43,0	10	50	
330.3039	3,9	75,0	43,0	10	50	
330.3040	4,0	75,0	43,0	10	50	
330.3041	4,1	75,0	43,0	10	80	
330.3042	4,2	75,0	43,0	10	80	
330.3043	4,3	80,0	47,0	10	80	
330.3044	4,4	80,0	47,0	10	80	
330.3045	4,5	80,0	47,0	10	80	
330.3046	4,6	80,0	47,0	10	100	
330.3047	4,7	80,0	47,0	10	100	
330.3048	4,8	86,0	52,0	10	100	
330.3049	4,9	86,0	52,0	10	100	

	D mm	L1 mm	L2 mm	Content	g
330.3050	5,0	86,0	52,0	10	100
330.3051	5,1	86,0	52,0	10	130
330.3052	5,2	86,0	52,0	10	130
330.3053	5,3	86,0	52,0	10	130
330.3054	5,4	93,0	57,0	10	130
330.3055	5,5	93,0	57,0	10	130
330.3056	5,6	93,0	57,0	10	150
330.3057	5,7	93,0	57,0	10	150
330.3058	5,8	93,0	57,0	10	150
330.3059	5,9	93,0	57,0	10	105
330.3060	6,0	93,0	57,0	10	150
330.3061	6,1	101,0	63,0	10	180
330.3062	6,2	101,0	63,0	10	180
330.3063	6,3	101,0	63,0	10	180
330.3064	6,4	101,0	63,0	10	180
330.3065	6,5	101,0	63,0	10	180
330.3066	6,6	101,0	63,0	10	250
330.3067	6,7	101,0	63,0	10	250
330.3068	6,8	109,0	69,0	10	250
330.3069	6,9	109,0	69,0	10	250
330.3070	7,0	109,0	69,0	10	250
330.3071	7,1	109,0	69,0	10	260
330.3072	7,2	109,0	69,0	10	260
330.3073	7,3	109,0	69,0	10	260
330.3074	7,4	109,0	69,0	10	260
330.3075	7,5	109,0	69,0	10	260
330.3076	7,6	117,0	75,0	10	330
330.3077	7,7	117,0	75,0	10	330
330.3078	7,8	117,0	75,0	10	330
330.3079	7,9	117,0	75,0	10	330
330.3080	8,0	117,0	75,0	10	330
330.3081	8,1	117,0	75,0	10	350
330.3082	8,2	117,0	75,0	10	350
330.3083	8,3	117,0	75,0	10	350
330.3084	8,4	117,0	75,0	10	350
330.3085	8,5	117,0	75,0	10	350
330.3086	8,6	125,0	81,0	10	430
330.3087	8,7	125,0	81,0	10	430
330.3088	8,8	125,0	81,0	10	430
330.3089	8,9	125,0	81,0	10	430
330.3090	9,0	125,0	81,0	10	430
330.3091	9,1	125,0	81,0	10	480
330.3092	9,2	125,0	81,0	10	480
330.3093	9,3	125,0	81,0	10	480
330.3094	9,4	125,0	81,0	10	480
330.3095	9,5	125,0	81,0	10	480
330.3096	9,6	133,0	87,0	10	275
330.3097	9,7	133,0	87,0	10	275
330.3098	9,8	133,0	87,0	10	275
330.3099	9,9	133,0	87,0	10	275
330.3100	10,0	133,0	87,0	5	275
330.3101	10,1	133,0	87,0	5	300
330.3102	10,2	133,0	87,0	5	300
330.3103	10,3	133,0	87,0	5	300
330.3104	10,4	133,0	87,0	5	300
330.3105	10,5	133,0	87,0	5	300
330.3106	10,6	133,0	87,0	5	350
330.3107	10,7	142,0	94,0	5	350
330.3108	10,8	142,0	94,0	5	350
330.3109	10,9	142,0	94,0	5	350
330.3110	11,0	142,0	94,0	5	350
330.3111	11,1	142,0	94,0	5	385
330.3112	11,2	142,0	94,0	5	385
330.3113	11,3	142,0	94,0	5	385
330.3114	11,4	142,0	94,0	5	385
330.3115	11,5	142,0	94,0	5	385
330.3116	11,6	142,0	94,0	5	440
330.3117	11,7	142,0	94,0	5	440
330.3118	11,8	142,0	94,0	5	440
330.3119	11,9	151,0	101,0	5	440
330.3120	12,0	151,0	101,0	5	440
330.3121	12,1	151,0	101,0	5	490
330.3122	12,2	151,0	101,0	5	490
330.3123	12,3	151,0	101,0	5	490
330.3124	12,4	151,0	101,0	5	490
330.3125	12,5	151,0	101,0	5	490
330.3126	12,6	151,0	101,0	5	515
330.3127	12,7	151,0	101,0	5	515
330.3128	12,8	151,0	101,0	5	515
330.3129	12,9	151,0	101,0	5	515
330.3130	13,0	151,0	101,0	5	515
330.3135	13,5	160,0	108,0	1	110
330.3140	14,0	160,0	108,0	1	115
330.3145	14,5	169,0	114,0	1	120
330.3150	15,0	169,0	114,0	1	125
330.3155	15,5	178,0	120,0	1	130
330.3160	16,0	178,0	120,0	1	135

HSS-G Co 5 Twist drill set in metal case

- High strength hinge
- DIN 338 Typ N
- Right hand cutting
- Relieved cone has a ground point
- Cutting edge has thinning point
- 130° pointed angle
- 20 - 30° spiral angle
- High heat hardness constancy
- For heavy loading
- Gold coated surface
- High performance cobalt steel

Ideally usably in high and low alloyed steel up to 1,100 N/mm² tensile, compensation steel and stainless steel, rustproof and acid steady steel and warm and cold forged steel

			kg
330.3610	19 pcs	1,0 - 1,5 - 2,0 - 2,5 - 3,0 - 3,5 - 4,0 - 4,5 - 5,0 - 5,5 - 6,0 - 6,5 - 7,0 - 7,5 - 8,0 - 8,5 - 9,0 - 9,5 - 10,0 mm	0,60

HSS-G Co 5 Twist drill set in metal case

- High strength hinge
- DIN 338 Typ N
- Right hand cutting
- Relieved cone has a ground point
- Cutting edge has thinning point
- 130° pointed angle
- 20 - 30° spiral angle
- High heat hardness constancy
- For heavy loading
- Gold coated surface
- High performance cobalt steel

ideally usable in high and low alloyed steel up to 1,100 N/mm² tensile Compensation steel and stainless steel, rustproof and acid steady steel and warm and cold forged steel

			kg
330.3613	25 pcs	1,0 - 1,5 - 2,0 - 2,5 - 3,0 - 3,5 - 4,0 - 4,5 - 5,0 - 5,5 - 6,0 - 6,5 - 7,0 - 7,5 - 8,0 - 8,5 - 9,0 - 9,5 - 10,0 - 10,5 - 11,0 - 11,5 - 12,0 - 12,5 - 13,0 mm	1,30

HSS-G Co 5 Twist drill set in plastic case

- Stackable for storage
- With integral clasp
- High strength hinge
- DIN 338 Typ N
- Right hand cutting
- Relieved cone has a ground point
- Cutting edge has thinning point
- 130° pointed angle
- 20 - 30° spiral angle
- High heat hardness constancy
- For heavy loading
- Gold coated surface
- High performance cobalt steel

Ideally usably in high and low alloyed steel up to 1,100 N/mm² tensile, compensation steel and stainless steel, rustproof and acid steady steel and warm and cold forged steel

			kg
330.3620	19 pcs	1,0 - 1,5 - 2,0 - 2,5 - 3,0 - 3,5 - 4,0 - 4,5 - 5,0 - 5,5 - 6,0 - 6,5 - 7,0 - 7,5 - 8,0 - 8,5 - 9,0 - 9,5 - 10,0 mm	0,60

HSS-G Co 5 Twist Drill Set in steel storage case

- Stackable for storage
- With integral clasp
- High strength hinge
- DIN 338 Typ N
- Right hand cutting
- Relieved cone has a ground point
- Cutting edge has thinning point
- 130° pointed angle
- 20 - 30° spiral angle
- High heat hardness constancy
- For heavy loading
- Gold coated surface
- High performance cobalt steel

Ideally usably in high and low alloyed steel up to 1,100 N/mm² tensile, compensation steel and stainless steel, rustproof and acid steady steel and warm and cold forged steel

			kg
330.3623	25 pcs	1,0 - 1,5 - 2,0 - 2,5 - 3,0 - 3,5 - 4,0 - 4,5 - 5,0 - 5,5 - 6,0 - 6,5 - 7,0 - 7,5 - 8,0 - 8,5 - 9,0 - 9,5 - 10,0 - 10,5 - 11,0 - 11,5 - 12,0 - 12,5 - 13,0 mm	1,30

HSS-G Co 5 Twist drill set in metal case

- With integral clasp
- High strength hinge
- DIN 338 Typ N
- Right hand cutting
- Relieved cone has a ground point
- Cutting edge has thinning point
- 130° pointed angle
- 20 - 30° spiral angle
- High heat hardness constancy
- For heavy loading
- Gold coated surface
- High performance cobalt steel

Ideally usably in high and low alloyed steel up to 1,100 N/mm² tensile, compensation steel and stainless steel, rustproof and acid steady steel and warm and cold forged steel.

			kg	
330.3640	170 pcs	per 10 x: 1,0 - 1,5 - 2,0 - 2,5 - 3,0 - 3,5 - 4,0 - 4,5 - 5,0 - 5,5 - 6,0 - 6,5 - 7,0 - 7,5 - 8,0 per 5 x: 8,5 - 9,0 - 9,5 - 10,0 mm	4,15	

HSS-G Co 5 Twist drill set in metal case

- With integral clasp
- High strength hinge
- DIN 338 Typ N
- Right hand cutting
- Relieved cone has a ground point
- Cutting edge has thinning point
- 130° pointed angle
- 20 - 30° spiral angle
- High heat hardness constancy
- For heavy loading
- Gold coated surface
- High performance cobalt steel

Ideally usably in high and low alloyed steel up to 1,100 N/mm² tensile, compensation steel and stainless steel, rustproof and acid steady steel and warm and cold forged steel.

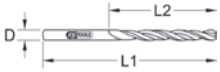
			kg	
330.3650	230 pcs	per 10 x: 1,0 - 1,5 - 2,0 - 2,5 - 3,0 - 3,2 - 3,5 - 4,0 - 4,2 - 4,5 - 5,0 - 5,5 - 6,0 - 6,5 - 6,8 - 7,0 - 7,5 - 8,0 per 5 x: 8,5 - 9,0 - 9,5 - 10,0 - 10,5 - 11,0 - 11,5 - 12,0 - 12,5 - 13,0 mm	7,40	

HSS TIN TWIST DRILLS

HSS-TiN Twist drill

- DIN 338 Typ N
- Right hand cutting
- Relieved cone has a ground point
- Cutting edge has thinning point
- 130° pointed angle
- 20 - 30° spiral angle
- High heat hardness constancy
- For heavy loading
- With TiN coated surface
- High performance steel

Ideally suitable in steel, cast steel and high and low alloyed steel up to 900 N/mm² tensile, bronze, brass, brushed aluminum alloy, graphite, nickel silver, sintered iron malleable tempered and cast iron.



	D mm	L1 mm	L2 mm	Content	g	
330.4003	0,3	19,0	3,0	10	1	
330.4004	0,4	20,0	5,0	10	1	
330.4005	0,5	22,0	6,0	10	1	
330.4006	0,6	24,0	7,0	10	1	
330.4007	0,7	28,0	9,0	10	1	
330.4008	0,8	30,0	10,0	10	1	
330.4009	0,9	32,0	11,0	10	1	
330.4010	1,0	34,0	12,0	10	1	
330.4011	1,1	36,0	14,0	10	1	
330.4012	1,2	38,0	16,0	10	1	
330.4013	1,3	38,0	16,0	10	1	
330.4014	1,4	40,0	18,0	10	1	
330.4015	1,5	40,0	18,0	10	1	
330.4016	1,6	43,0	20,0	10	10	
330.4017	1,7	43,0	20,0	10	10	
330.4018	1,8	46,0	22,0	10	10	
330.4019	1,9	46,0	22,0	10	10	
330.4020	2,0	49,0	24,0	10	10	
330.4021	2,1	49,0	24,0	10	20	
330.4022	2,2	53,0	27,0	10	20	
330.4023	2,3	53,0	27,0	10	20	
330.4024	2,4	57,0	30,0	10	20	
330.4025	2,5	57,0	30,0	10	20	
330.4026	2,6	57,0	30,0	10	40	
330.4027	2,7	61,0	33,0	10	40	
330.4028	2,8	61,0	33,0	10	40	
330.4029	2,9	61,0	33,0	10	40	
330.4030	3,0	61,0	33,0	10	40	
330.4031	3,1	65,0	36,0	10	40	
330.4032	3,2	65,0	36,0	10	40	
330.4033	3,3	65,0	36,0	10	40	
330.4034	3,4	70,0	39,0	10	40	
330.4035	3,5	70,0	39,0	10	40	
330.4036	3,6	70,0	39,0	10	50	
330.4037	3,7	70,0	39,0	10	50	
330.4038	3,8	75,0	43,0	10	50	
330.4039	3,9	75,0	43,0	10	50	
330.4040	4,0	75,0	43,0	10	50	
330.4041	4,1	75,0	43,0	10	80	
330.4042	4,2	75,0	43,0	10	80	
330.4043	4,3	80,0	47,0	10	80	
330.4044	4,4	80,0	47,0	10	80	
330.4045	4,5	80,0	47,0	10	80	
330.4046	4,6	80,0	47,0	10	100	
330.4047	4,7	80,0	47,0	10	100	
330.4048	4,8	86,0	52,0	10	100	
330.4049	4,9	86,0	52,0	10	100	
330.4050	5,0	86,0	52,0	10	100	
330.4051	5,1	86,0	52,0	10	130	
330.4052	5,2	86,0	52,0	10	130	
330.4053	5,3	86,0	52,0	10	130	
330.4054	5,4	93,0	57,0	10	130	
330.4055	5,5	93,0	57,0	10	130	
330.4056	5,6	93,0	57,0	10	150	
330.4057	5,7	93,0	57,0	10	150	
330.4058	5,8	93,0	57,0	10	150	
330.4059	5,9	93,0	57,0	10	150	
330.4060	6,0	93,0	57,0	10	150	
330.4061	6,1	101,0	63,0	10	180	
330.4062	6,2	101,0	63,0	10	180	
330.4063	6,3	101,0	63,0	10	180	
330.4064	6,4	101,0	63,0	10	180	
330.4065	6,5	101,0	63,0	10	180	
330.4066	6,6	101,0	63,0	10	250	
330.4067	6,7	101,0	63,0	10	250	
330.4068	6,8	109,0	69,0	10	250	
330.4069	6,9	109,0	69,0	10	250	
330.4070	7,0	109,0	69,0	10	250	
330.4071	7,1	109,0	69,0	10	260	
330.4072	7,2	109,0	69,0	10	260	
330.4073	7,3	109,0	69,0	10	260	
330.4074	7,4	109,0	69,0	10	260	
330.4075	7,5	109,0	69,0	10	260	
330.4076	7,6	117,0	75,0	10	330	
330.4077	7,7	117,0	75,0	10	330	
330.4078	7,8	117,0	75,0	10	330	
330.4079	7,9	117,0	75,0	10	330	
330.4080	8,0	117,0	75,0	10	330	
330.4081	8,1	117,0	75,0	10	350	
330.4082	8,2	117,0	75,0	10	350	
330.4083	8,3	117,0	75,0	10	350	
330.4084	8,4	117,0	75,0	10	350	
330.4085	8,5	117,0	75,0	10	350	
330.4086	8,6	125,0	81,0	10	430	
330.4087	8,7	125,0	81,0	10	430	
330.4088	8,8	125,0	81,0	10	430	
330.4089	8,9	125,0	81,0	10	430	
330.4090	9,0	125,0	81,0	10	430	
330.4091	9,1	125,0	81,0	10	480	
330.4092	9,2	125,0	81,0	10	480	
330.4093	9,3	125,0	81,0	10	480	
330.4094	9,4	125,0	81,0	10	480	
330.4095	9,5	125,0	81,0	10	480	
330.4096	9,6	133,0	87,0	10	275	
330.4097	9,7	133,0	87,0	10	275	
330.4098	9,8	133,0	87,0	10	275	
330.4099	9,9	133,0	87,0	10	275	
330.4100	10,0	133,0	87,0	5	275	
330.4101	10,1	133,0	87,0	5	300	
330.4102	10,2	133,0	87,0	5	300	
330.4103	10,3	133,0	87,0	5	300	
330.4104	10,4	133,0	87,0	5	300	
330.4105	10,5	133,0	87,0	5	300	
330.4106	10,6	133,0	87,0	5	350	
330.4107	10,7	142,0	94,0	5	350	
330.4108	10,8	142,0	94,0	5	350	
330.4109	10,9	142,0	94,0	5	350	
330.4110	11,0	142,0	94,0	5	350	
330.4111	11,1	142,0	94,0	5	385	
330.4112	11,2	142,0	94,0	5	385	
330.4113	11,3	142,0	94,0	5	385	
330.4114	11,4	142,0	94,0	5	385	
330.4115	11,5	142,0	94,0	5	385	
330.4116	11,6	142,0	94,0	5	440	
330.4117	11,7	142,0	94,0	5	440	
330.4118	11,8	142,0	94,0	5	440	
330.4119	11,9	151,0	101,0	5	440	
330.4120	12,0	151,0	101,0	5	440	
330.4121	12,1	151,0	101,0	5	490	
330.4122	12,2	151,0	101,0	5	490	
330.4123	12,3	151,0	101,0	5	490	
330.4124	12,4	151,0	101,0	5	490	
330.4125	12,5	151,0	101,0	5	490	
330.4126	12,6	151,0	101,0	5	515	
330.4127	12,7	151,0	101,0	5	515	
330.4128	12,8	151,0	101,0	5	515	
330.4129	12,9	151,0	101,0	5	515	
330.4130	13,0	151,0	101,0	5	515	
330.4135	13,5	160,0	108,0	1	110	
330.4140	14,0	160,0	108,0	1	115	
330.4145	14,5	169,0	114,0	1	120	
330.4150	15,0	169,0	114,0	1	125	
330.4155	15,5	178,0	120,0	1	130	
330.4160	16,0	178,0	120,0	1	135	

HSS-G Twist drill set in metal case

- High strength hinge
- DIN 338 Typ N
- Right hand cutting
- Relieved cone has a ground point
- Cutting edge has thinning point
- 130° pointed angle
- 20 - 30° spiral angle
- High heat hardness constancy
- For heavy loading
- TIN coated surface
- High performance steel

Ideally suitable in steel, cast steel and high and low alloyed steel up to 900 N/mm² tensile, bronze, brass, brushed aluminum alloy, graphite, nickel silver, sintered iron malleable tempered and cast iron.

			kg
330.4610	19 pcs	1,0 - 1,5 - 2,0 - 2,5 - 3,0 - 3,5 - 4,0 - 4,5 - 5,0 - 5,5 - 6,0 - 6,5 - 7,0 - 7,5 - 8,0 - 8,5 - 9,0 - 9,5 - 10,0 mm	0,66

HSS-G Twist drill set in metal case

- High strength hinge
- DIN 338 Typ N
- Right hand cutting
- Relieved cone has a ground point
- Cutting edge has thinning point
- 130° pointed angle
- 20 - 30° spiral angle
- High heat hardness constancy
- For heavy loading
- TIN coated surface
- High performance steel

Ideally suitable in steel, cast steel and high and low alloyed steel up to 900 N/mm² tensile, bronze, brass, brushed aluminum alloy, graphite, nickel silver, sintered iron malleable tempered and cast iron.

			kg
330.4613	25 pcs	1,0 - 1,5 - 2,0 - 2,5 - 3,0 - 3,5 - 4,0 - 4,5 - 5,0 - 5,5 - 6,0 - 6,5 - 7,0 - 7,5 - 8,0 - 8,5 - 9,0 - 9,5 - 10,0 - 10,5 - 11,0 - 11,5 - 12,0 - 12,5 - 13,0 mm	1,36

HSS-TiN Twist drill set in plastic case

- Stackable for storage
- With integral clasp
- High strength hinge
- DIN 338 Typ N
- Right hand cutting
- Relieved cone has a ground point
- Cutting edge has thinning point
- 130° pointed angle
- 20 - 30° spiral angle
- High heat hardness constancy
- For heavy loading
- TIN coated surface
- High performance steel

Ideally suitable in steel, cast steel and high and low alloyed steel up to 900 N/mm² tensile, bronze, brass, brushed aluminum alloy, graphite, nickel silver, sintered iron malleable tempered and cast iron.

			kg
330.4620	19 pcs	1,0 - 1,5 - 2,0 - 2,5 - 3,0 - 3,5 - 4,0 - 4,5 - 5,0 - 5,5 - 6,0 - 6,5 - 7,0 - 7,5 - 8,0 - 8,5 - 9,0 - 9,5 - 10,0 mm	0,66

HSS-TiN Twist drill set in plastic case

- Stackable for storage
- With integral clasp
- High strength hinge
- DIN 338 Typ N
- Right hand cutting
- Relieved cone has a ground point
- Cutting edge has thinning point
- 130° pointed angle
- 20 - 30° spiral angle
- High heat hardness constancy
- For heavy loading
- TIN coated surface
- High performance steel

Ideally suitable in steel, cast steel and high and low alloyed steel up to 900 N/mm² tensile, bronze, brass, brushed aluminum alloy, graphite, nickel silver, sintered iron malleable tempered and cast iron.

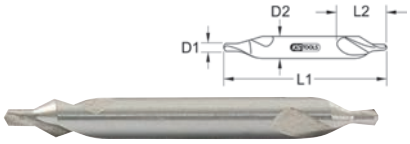
			kg
330.4623	25 pcs	1,0 - 1,5 - 2,0 - 2,5 - 3,0 - 3,5 - 4,0 - 4,5 - 5,0 - 5,5 - 6,0 - 6,5 - 7,0 - 7,5 - 8,0 - 8,5 - 9,0 - 9,5 - 10,0 - 10,5 - 11,0 - 11,5 - 12,0 - 12,5 - 13,0 mm	1,36

CENTRE DRILLS

HSS Centre drill

- DIN 333 form A
- Right hand cutting
- 60° centre angle
- 120° pointed angle
- For production of center borings
- Surface without discolouration
- High performance steel

Ideally suited for production of center borings according to DIN 332 form A.

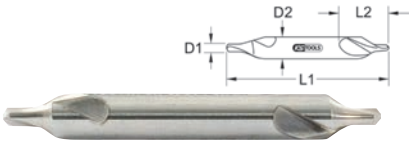


	D1 mm	D2 mm	L1 mm	L2 mm	Content	g
330.1201	1,00	3,15	32,0	7,3	1	10
330.1202	1,50	4,00	36,0	9,3	1	10
330.1203	2,00	5,00	40,0	11,5	1	10
330.1204	2,50	6,30	46,0	15,4	1	20
330.1205	3,15	8,00	51,0	18,0	1	20
330.1206	4,00	10,00	56,0	20,0	1	22
330.1207	5,00	12,50	64,0	22,0	1	30
330.1208	6,30	15,00	72,0	30,0	1	30

HSS Centre drill

- DIN 333 form R
- Right hand cutting
- 60° centre angle
- 120° pointed angle
- For production of center borings
- Surface without discolouration
- High performance steel

Ideally suited for production of center borings according to DIN 332 form R.



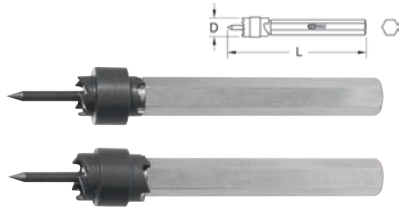
	D1 mm	D2 mm	L1 mm	L2 mm	Content	g
330.1211	1,00	3,15	32,0	7,3	1	10
330.1212	1,50	4,00	36,0	9,3	1	10
330.1213	2,00	5,00	40,0	11,5	1	10
330.1214	2,50	6,30	46,0	15,4	1	20
330.1215	3,15	8,00	51,0	18,0	1	20
330.1216	4,00	10,00	56,0	20,0	1	22
330.1217	5,00	12,50	64,0	22,0	1	30
330.1218	6,30	15,00	72,0	30,0	1	30

SPOT WELD DRILLS

HSS Spot weld cutter

- Right hand cutting
- Interchangeable crowns
- Milling machine depth adjustable
- For efficient and fast working
- For loosening of spot welds
- No deformation of the sheet metal
- Special high performance steel

Ideally suitable with pneumatic drill, electric drill and rechargeable battery drill.

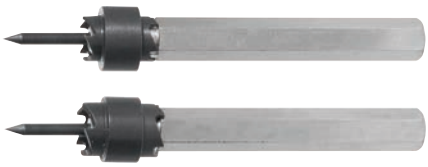


	D mm	D	L mm	Replacement crowns	Center point	Content	g
332.0951	8,0	5/16	72,0	332.0952	332.0955	1	30
332.0953	10,0	3/8	72,0	332.0954	332.0955	1	30

HSS Spot weld cutter set

- Right hand cutting
- Interchangeable crowns
- Milling machine depth adjustable
- For efficient and fast working
- For loosening of spot welds
- No deformation of the sheet metal
- Special high performance steel

Ideally suitable with pneumatic drill, electric drill and rechargeable battery drill.

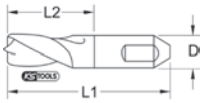


332.0950	2 pcs	8 - 10 mm	100

HSSE TICN Spot weld drill

- Right hand cutting
- Centre tip has a ground point
- Accurate polished
- For burr free drilling without using a centre punch
- For the drilling of welding points
- TICN coated surface
- High performance steel

Ideally suited in a hand drilling machine.
For drilling of plastic sheet, copper, zinc, aluminum, brass and steel sheet.

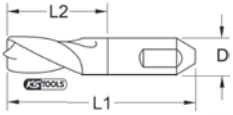


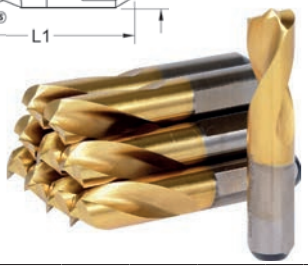
	D mm	L1 mm	L2 mm	Content	
332.0308	8,0	80,0	30,0	1	20
332.0310	10,0	90,0	35,0	1	40

HSSE TiN Spot weld drill

- Right hand cutting
- Centre tip has a ground point
- Accurate polished
- For burr free drilling without using a centre punch
- For the drilling of welding points
- TIN coated surface
- High performance steel

Ideally suited in a pneumatic drill and vario milling machine



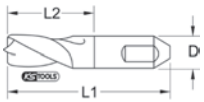


	D mm	L1 mm	L2 mm	Content	
332.0809	8,0	44,0	23,0	10	134

HSSE Spot weld drill

- Right hand cutting
- Centre tip has a ground point
- Accurate polished
- For burr free drilling without using a centre punch
- For the drilling of welding points
- Surface without discolouration
- High performance steel

Ideally suited in a hand drilling machine.
For drilling of plastic sheet, copper, zinc, aluminum, brass and steel sheet.

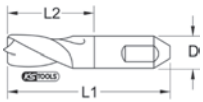


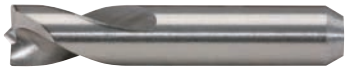
	D mm	L1 mm	L2 mm	Content	
332.0106	6,0	70,0	25,0	1	10
332.0108	8,0	80,0	30,0	1	20
332.0110	10,0	90,0	35,0	1	40

HSS Spot weld drill

- Right hand cutting
- Centre tip has a ground point
- Accurate polished
- For burr free drilling without using a centre punch
- For the drilling of welding points
- TICN coated surface
- High performance steel

Ideally suited in a pneumatic drill and vario milling machine.



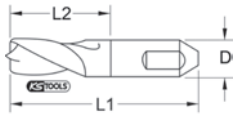


	D mm	L1 mm	L2 mm	Content	
332.0408	6,5	44,0	15,0	1	10
332.0708	8,0	44,0	15,0	1	10

HSSE TiCN Spot weld drill

- Right hand cutting
- Centre tip has a ground point
- Accurate polished
- For burr free drilling without using a centre punch
- For the drilling of welding points
- TICN coated surface
- High performance steel

Ideally suited in a pneumatic drill and vario milling machine.

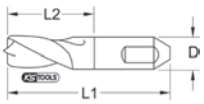


	D mm	L1 mm	L2 mm	Content	
332.0608	8,0	44,0	15,0	1	10

HSSE TIN Spot weld drill

- Right hand cutting
- Centre tip has a ground point
- Accurate polished
- For burr free drilling without using a centre punch
- For the drilling of welding points
- TIN coated surface
- High performance steel

Ideally suited in a hand drilling machine.
For drilling of plastic sheet, copper, zinc, aluminum, brass and steel sheet.

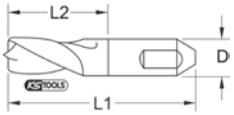


	D mm	L1 mm	L2 mm	Content	
332.0206	6,0	70,0	25,0	1	10
332.0208	8,0	80,0	30,0	1	20
332.0210	10,0	90,0	35,0	1	40

HSSE TiN Spot weld drill

- Right hand cutting
- Centre tip has a ground point
- Accurate polished
- For burr free drilling without using a centre punch
- For the drilling of welding points
- TIN coated surface
- High performance steel

Ideally suited in a pneumatic drill and vario milling machine.



	D mm	L1 mm	L2 mm	Content	
332.0508	6,5	44,0	15,0	1	10
332.0808	8,0	44,0	15,0	1	10

HSSE Double ended spot weld drill

- Right hand cutting
- Relieved cone has a ground point
- Cutting edge has thinning point
- 135° pointed angle
- Dual-sided adjustment
- Extra short and durable
- For thin walled materials
- Surface without discolouration
- High performance steel

Ideally suitable in steel, cast steel and high and low alloyed steel up to 900 N/mm² tensile, bronze, brass, brushed aluminum alloy, graphite, nickel silver, sintered iron, pressure-, malleable- and cast iron

	D mm	L1 mm	L2 mm	Content	
332.0908	8,0	70,0	16,3	1	20

HSS Double ended spot weld drill set

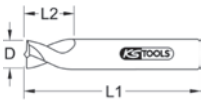
- Right hand cutting
- Relieved cone has a ground point
- Cutting edge has thinning point
- 135° pointed angle
- Dual-sided adjustment
- Extra short and durable
- For thin walled materials
- Surface without discolouration
- High performance steel

Ideally suitable in steel, cast steel and high and low alloyed steel up to 900 N/mm² tensile, bronze, brass, brushed aluminum alloy, graphite, nickel silver, sintered iron, pressure-, malleable- and cast iron

			g
332.0938	3 pcs	3 x 332.0908	70

Carbide spot weld drill

- Right hand cutting
- Highest stability under load
- Double edged
- Welded carbide head
- Especially temperature resistance up to max. 1100°C
- High performance carbide
- Suitable for high strength car body panels



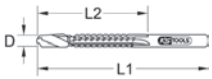
	D mm	L1 mm	L2 mm	Content	g
515.1305	8,0	44,0	11,0	1	22
515.1308	10,0	44,0	11,0	1	25

MILLING DRILLS

HSS Milling drill

- Right hand cutting
- Relieved cone has a ground point
- 118° pointed angle
- Suitable for thin walled material
- Surface without discolouration
- Special high performance steel

Ideally suitable for boring and milling machines thin walled materials, plastic, wood and sheet metal.

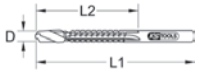


	D mm	L1 mm	L2 mm	Content	g
332.0330	6,0	90,0	35,0	1	25
332.0331	8,0	90,0	35,0	1	30

HSS TiN Milling drill

- Right hand cutting
- Relieved cone has a ground point
- 118° pointed angle
- Suitable for thin walled material
- TiN coated surface
- Special high performance steel

Ideally suitable for boring and milling machines thin walled materials, plastic, wood and sheet metal.

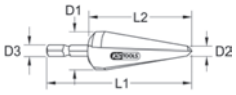


	D mm	L1 mm	L2 mm	Content	g
332.0332	6,0	90,0	35,0	1	25
332.0333	8,0	90,0	35,0	1	30

HSS CONE CUTTERS

HSS Cone cutter bit

- Point thinning according to DIN 1412 C
- Cutting edge has thinning point
- Right hand cutting
- 118° pointed angle
- 20 - 30° cone angle
- With 1/4" external hexagon drive adaptor to DIN 3126 - C6,3
- Absolute smooth operation
- High cutting achievement
- Surface without discolouration
- High performance steel

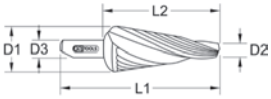


	Ø mm	D1 mm	D2 mm	D3 mm	L1 mm	L2 mm	Content	g
336.0031	5,0 - 22,0	20,0	5,0	6,4	78,0	51,0	1	65

HSS Cone cutter spiral grooved

- Point thinning according to DIN 1412 C
- Right hand cutting
- 118° pointed angle
- 20° cone angle
- Spiral form flute
- Three sided clamping surface on the shaft
- Absolute smooth operation
- Surface without discolouration
- High performance steel

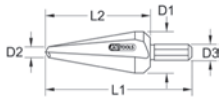
Is suitable for use in all current industrial metals. Such as alloyed and non alloyed sheet metals up to 4.0 mm, NE metal and plastic. The spiral chip groove formed means that drilling is absolutly quiet, whilst the forming ensures the best cut achievement.



	Ø mm	D1 mm	D2 mm	D3 mm	L1 mm	L2 mm	Content	g
336.0024	4,0 - 14,0	14,0	4,0	6,0	58,0	33,0	1	20
336.0025	5,0 - 20,0	20,0	5,0	8,0	71,0	47,0	1	56
336.0026	5,0 - 31,0	31,0	5,0	10,0	103,0	78,0	1	170

HSS Cone cutter

- Point thinning according to DIN 1412 C
- Cutting edge has thinning point
- Right hand cutting
- 118° pointed angle
- 20 - 30° cone angle
- Absolute smooth operation
- High cutting achievement
- Surface without discolouration
- High performance steel



	Ø mm	D1 mm	D2 mm	D3 mm	L1 mm	L2 mm	Content	g
336.0001	3,0 - 14,0	14,0	3,0	6,0	58,0	38,0	1	20
336.0002	5,0 - 20,0	20,0	5,0	8,0	71,0	51,0	1	50
336.0003	16,0 - 30,5	30,5	16,0	9,0	76,0	54,0	1	120
336.0004	24,0 - 40,0	40,0	24,0	10,0	89,0	65,0	1	270
336.0005	36,0 - 50,0	50,0	36,0	12,0	97,0	71,0	1	490
336.0006	40,0 - 61,0	61,0	40,0	13,0	103,0	73,0	1	510
336.0007	5,0 - 25,4	25,4	5,0	10,0	87,0	67,0	1	100
336.0008	4,0 - 30,0	30,0	4,0	9,0	103,0	83,0	1	150
336.0009	5,0 - 22,5	22,5	5,0	8,0	79,0	59,0	1	90

HSS Cone cutter set in metal case

- High strength hinge
- Point thinning according to DIN 1412 C
- Cutting edge has thinning point
- Right hand cutting
- 118° pointed angle
- 20 - 30° cone angle
- Absolute smooth operation
- High cutting achievement
- Surface without discolouration
- High performance steel

			g
336.0503	4 pcs	3 - 14 mm - 5 - 20 mm - 16 - 30,5 mm	590

HSS Cone cutter set in plastic case

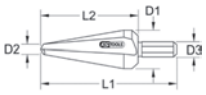
- Stackable for storage
- With integral clasp
- High strength hinge
- Point thinning according to DIN 1412 C
- Cutting edge has thinning point
- Right hand cutting
- 118° pointed angle
- 20 - 30° cone angle
- Absolute smooth operation
- High cutting achievement
- Surface without discolouration
- High performance steel

336.0533	4 pcs	3 - 14 mm - 5 - 20 mm - 16 - 30,5 mm	590

HSS CO CONE CUTTERS

HSS Co Cone cutter

- Point thinning according to DIN 1412 C
- Cutting edge has thinning point
- Right hand cutting
- 118° pointed angle
- 20 - 30° cone angle
- Absolute smooth operation
- High cutting achievement
- Surface without discolouration
- High performance cobalt steel



	Ø mm	D1 mm	D2 mm	D3 mm	L1 mm	L2 mm	Content	
336.0011	3,0 - 20,0	14,0	3,0	6,0	58,0	38,0	1	20
336.0012	5,0 - 20,0	20,0	5,0	8,0	71,0	51,0	1	56
336.0013	16,0 - 30,5	30,5	16,0	9,0	76,0	54,0	1	120
336.0014	4,0 - 30,0	30,0	4,0	9,0	103,0	65,0	1	170

HSS Co Cone cutter set in metal case

- High strength hinge
- Point thinning according to DIN 1412 C
- Cutting edge has thinning point
- Right hand cutting
- 118° pointed angle
- 20 - 30° cone angle
- Absolute smooth operation
- High cutting achievement
- Surface without discolouration
- High performance cobalt steel

336.0513	4 pcs	3 - 14 mm - 5 - 20 mm - 16 - 30,5 mm	590

HSS Co Cone cutter set in plastic case

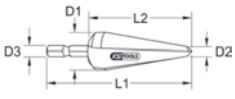
- Stackable for storage
- With integral clasp
- High strength hinge
- Point thinning according to DIN 1412 C
- Cutting edge has thinning point
- Right hand cutting
- 118° pointed angle
- 20 - 30° cone angle
- Absolute smooth operation
- High cutting achievement
- Surface without discolouration
- High performance cobalt steel

336.0543	4 pcs	3 - 14 mm - 5 - 20 mm - 16 - 30,5 mm	590

HSS TIN CONE CUTTERS

HSS TiN Cone cutter bit

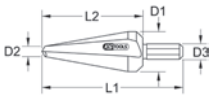
- Point thinning according to DIN 1412 C
- Cutting edge has thinning point
- Right hand cutting
- 118° pointed angle
- 20 - 30° cone angle
- 1/4" external hexagon drive adaptor to DIN 3126 - C 6,3
- Absolute smooth operation
- High cutting achievement
- TiN coated surface
- High performance steel



	Ø mm	D1 mm	D2 mm	D3 mm	L1 mm	L2 mm	Content	
336.0033	5,0 - 20,0	20,0	5,0	6,4	78,0	51,0	1	65

HSS TiN Cone cutter

- Point thinning according to DIN 1412 C
- Cutting edge has thinning point
- Right hand cutting
- 118° pointed angle
- 20 - 30° cone angle
- Absolute smooth operation
- High cutting achievement
- With TiN coated surface
- High performance steel



	Ø mm	D1 mm	D2 mm	D3 mm	L1 mm	L2 mm	Content	
336.0015	3,0 - 14,0	14,0	3,0	6,0	58,0	38,0	1	20
336.0016	5,0 - 20,0	20,0	5,0	8,0	71,0	51,0	1	56
336.0017	16,0 - 30,5	30,5	16,0	9,0	76,0	54,0	1	120
336.0018	24,0 - 40,0	40,0	24,0	10,0	89,0	65,0	1	259
336.0019	36,0 - 50,0	50,0	36,0	12,0	97,0	71,0	1	480
336.0020	40,0 - 61,0	61,0	40,0	13,0	103,0	73,0	1	605
336.0021	5,0 - 25,4	25,4	5,0	10,0	87,0	67,0	1	150
336.0022	4,0 - 30,0	30,0	4,0	9,0	103,0	83,0	1	170
336.0023	5,0 - 22,5	22,5	5,0	8,0	79,0	59,0	1	180

HSS TiN Cone cutter set in metal case

- High strength hinge
- Point thinning according to DIN 1412 C
- Cutting edge has thinning point
- Right hand cutting
- 118° pointed angle
- 20 - 30° cone angle
- Absolute smooth operation
- High cutting achievement
- With TiN coated surface
- High performance steel

336.0523	4 pcs	3 - 14 mm - 5 - 20 mm - 16 - 30,5 mm	590

HSS TiN Cone cutter set in plastic case

- Stackable for storage
- With integral clasp
- High strength hinge
- Point thinning according to DIN 1412 C
- Cutting edge has thinning point
- Right hand cutting
- 118° pointed angle
- 20 - 30° cone angle
- Absolute smooth operation
- High cutting achievement
- With TiN coated surface
- High performance steel

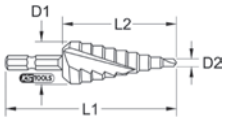
336.0553	4 pcs	3 - 14 mm - 5 - 20 mm - 16 - 30,5 mm	590

HSS STEPPED DRILLS

HSS Stepped drill bit

- Point thinning according to DIN 1412 C
- Cutting edge has thinning point
- Right hand cutting
- Spiral grooved
- 118° pointed angle
- 90° stepped angle
- 1/4" external hexagon drive adaptor to DIN 3126 - C 6,3
- Absolute smooth operation
- High cutting achievement
- Surface without discolouration
- High performance steel

The cone simplifies the retracting through bored sheet metals. Breaking chips and swarf are taken away.
The construction of the cutting edges and cold welded joint in the edges blunting is thereby prevented.



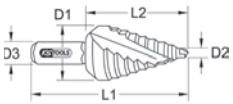
1/4"

	Ø mm	D1 mm	D2 mm	L1 mm	L2 mm	No. stages	Content	
330.2381	4,0-12,0	12,0	4,0	72,0	45,0	9	1	25
330.2382	4,0-20,0	20,0	4,0	81,0	54,0	9	1	85
330.2383	4,0-30,0	30,0	4,0	105,0	78,0	14	1	165

HSS Stepped drill, extra short

- Point thinning according to DIN 1412 C
- Cutting edge has thinning point
- Right hand cutting
- Spiral grooved
- 118° pointed angle
- 90° stepped angle
- Absolute smooth operation
- High cutting achievement
- Surface without discolouration
- High performance steel

The cone simplifies the retracting through bored sheet metals. Breaking chips and swarf are taken away.
The construction of the cutting edges and cold welded joint in the edges blunting is thereby prevented. Ideally suited for construction strength grade sheet metal up to 2.0 mm.

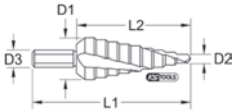


	Ø mm	D1 mm	D2 mm	D3 mm	L1 mm	L2 mm	No. stages	Content	
330.2371	4 - 12	12,0	4,0	6,0	48,0	28,0	9	1	16
330.2372	4 - 20	20,0	4,0	8,0	58,0	38,0	9	1	42
330.2373	4 - 30	30,0	4,0	10,0	72,0	49,0	14	1	130

HSS Stepped drill

- Point thinning according to DIN 1412 C
- Cutting edge has thinning point
- Right hand cutting
- Spiral grooved
- 118° pointed angle
- 90° stepped angle
- Absolute smooth operation
- High cutting achievement
- Surface without discolouration
- High performance steel

The cone simplifies the retracting through bored sheet metals. Higher feed especially in NE metals possible due to the slim cutting edge.



	Ø mm	D1 mm	D2 mm	D3 mm	L1 mm	L2 mm	No. stages	Content	
330.2301	4 - 12	12,0	4,0	6,0	65,0	45,0	9	1	22
330.2302	4 - 20	20,0	4,0	8,0	75,0	55,0	9	1	60
330.2303	4 - 30	30,0	4,0	10,0	100,0	78,0	14	1	185
330.2304	6 - 30	30,0	6,0	10,0	95,0	73,0	13	1	205
330.2305	6 - 37	37,0	6,0	10,0	100,0	76,0	12	1	245
330.2306	6 - 38	38,0	6,0	10,0	100,0	76,0	12	1	260
330.2307	4 - 39	39,0	4,0	10,0	107,0	83,0	13	1	312
330.2308	6 - 40	40,0	6,0	13,0	105,0	81,0	19	1	455
330.2309	6 - 20	20,0	6,0	9,0	71,0	51,0	8	1	100
330.2310	4 - 22	22,0	4,0	10,0	76,0	56,0	10	1	85
330.2311	6 - 27,8	26,8	6,0	10,0	75,0	53,0	8	1	110
330.2312	6 - 32	32,0	6,0	10,0	75,0	53,0	8	1	102
330.2313	6 - 32	32,0	6,0	10,0	76,0	53,0	9	1	108
330.2314	5 - 28	28,0	5,0	9,0	69,0	53,0	7	1	86
330.2315	6 - 25	25,0	6,0	10,0	65,0	47,0	7	1	135
330.2316	6 - 30,5	30,5	6,0	10,0	80,0	57,0	9	1	150
330.2317	6,5 - 40,5	40,5	6,5	10,0	96,0	72,0	11	1	265
330.2318	6 - 36	36,0	6,0	10,0	82,0	57,0	11	1	255
330.2319	7 - 40,5	40,5	7,0	12,0	95,0	70,0	13	1	275
330.2320	4,8 - 10,7	10,7	4,8	6,0	54,0	34,0	5	1	27
330.2321	7 - 32,5	32,5	7,0	12,0	96,0	71,0	11	1	220

HSS Stepped drill set in metal case

- Point thinning according to DIN 1412 C
- Cutting edge has thinning point
- Right hand cutting
- Spiral grooved
- 118° pointed angle
- 90° stepped angle
- Absolute smooth operation
- High cutting achievement
- Surface without discolouration
- High performance steel

The cone simplifies the retracting through bored sheet metals. Higher feed especially in NE metals possible due to the slim cutting edge.

330.2403	3 pcs	4 - 12 mm - 4 - 20 mm - 6 - 30 mm	610

HSS Stepped drill set in plastic case

- Stackable for storage
- With integral clasp
- Point thinning according to DIN 1412 C
- Cutting edge has thinning point
- Right hand cutting
- Spiral grooved
- 118° pointed angle
- 90° stepped angle
- Absolute smooth operation
- High cutting achievement
- Surface without discolouration
- High performance steel

The cone simplifies the retracting through bored sheet metals. Higher feed especially in NE metals possible due to the slim cutting edge.

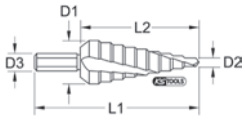
330.2404	3 pcs	4 - 12 mm - 4 - 20 mm - 6 - 30 mm	610

HSS CO STEPPED DRILLS

HSS Co 5 Stepped drill

- Point thinning according to DIN 1412 C
- Cutting edge has thinning point
- Right hand cutting
- Spiral grooved
- 118° pointed angle
- 90° stepped angle
- Absolute smooth operation
- High cutting achievement
- Surface without discolouration
- High performance cobalt steel

The cone simplifies the retracting through bored sheet metals. Higher feed especially in NE metals possible due to the slim cutting edge.



	Ø mm	D1 mm	D2 mm	D3 mm	L1 mm	L2 mm	No. stages	Content	
330.2322	4 - 12	12,0	4,0	6,0	65,0	45,0	9	1	22
330.2323	4 - 20	20,0	4,0	8,0	75,0	55,0	9	1	60
330.2324	4 - 30	30,0	4,0	10,0	100,0	78,0	14	1	185
330.2325	6 - 30	30,0	6,0	10,0	95,0	73,0	13	1	205
330.2326	6 - 37	37,0	6,0	10,0	100,0	76,0	12	1	245
330.2327	6 - 38	38,0	6,0	10,0	100,0	76,0	12	1	260
330.2328	4 - 39	39,0	4,0	10,0	107,0	83,0	13	1	312
330.2329	6 - 40	40,0	6,0	13,0	105,0	81,0	16	1	455
330.2330	6 - 20	20,0	6,0	9,0	71,0	51,0	8	1	100
330.2331	4 - 22	22,0	4,0	10,0	76,0	56,0	10	1	85
330.2332	6 - 26,8	26,8	6,0	10,0	75,0	53,0	8	1	110
330.2333	6 - 32	32,0	6,0	10,0	75,0	53,0	8	1	102
330.2334	6 - 32	32,0	6,0	10,0	76,0	53,0	9	1	108
330.2335	5 - 28	28,0	5,0	9,0	69,0	47,0	7	1	86
330.2336	6 - 25	25,0	6,0	10,0	65,0	42,0	7	1	135
330.2337	6 - 30,5	30,5	6,0	10,0	80,0	57,0	9	1	150
330.2338	6,5 - 40,5	40,5	6,5	10,0	96,0	72,0	11	1	265
330.2339	6 - 36	36,0	6,0	10,0	82,0	57,0	11	1	255
330.2340	7 - 40,5	40,5	7,0	12,0	95,0	70,0	13	1	275
330.2341	4,8 - 10,7	10,7	4,8	6,0	54,0	34,0	5	1	27
330.2342	7 - 32,5	32,5	7,0	12,0	96,0	71,0	11	1	220

HSS Co 5 Stepped drill set in metal case

- High strength hinge
- Point thinning according to DIN 1412 C
- Cutting edge has thinning point
- Right hand cutting
- Spiral grooved
- 118° pointed angle
- 90° stepped angle
- Absolute smooth operation
- High cutting achievement
- Surface without discolouration
- High performance cobalt steel

The cone simplifies the retracting through bored sheet metals. Higher feed especially in NE metals possible due to the slim cutting edge.

330.2413	3 pcs	4 - 12 mm - 4 - 20 mm - 6 - 30 mm	600

HSS Co 5 Stepped drill set in plastic case

- Stackable for storage
- With integral clasp
- High strength hinge
- Point thinning according to DIN 1412 C
- Cutting edge has thinning point
- Right hand cutting
- Spiral grooved
- 118° pointed angle
- 90° stepped angle
- Absolute smooth operation
- High cutting achievement
- Surface without discolouration
- High performance cobalt steel

The cone simplifies the retracting through bored sheet metals. Higher feed especially in NE metals possible due to the slim cutting edge.

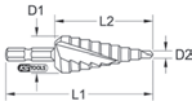
330.2414	3 pcs	4 - 12 mm - 4 - 20 mm - 6 - 30 mm	600

HSS TIN STEPPED DRILLS

HSS TiN Stepped drill bit

- Point thinning according to DIN 1412 C
- Cutting edge has thinning point
- Right hand cutting
- Spiral grooved
- 118° pointed angle
- 90° stepped angle
- 1/4" external hexagon drive adaptor to DIN 3126 - C 6,3
- Absolute smooth operation
- High cutting achievement
- With TiN coated surface
- High performance steel

The cone simplifies the retracting through bored sheet metals. Breaking chips and swarf are taken away.
The construction of the cutting edges and cold welded joint in the edges blunting is thereby prevented.



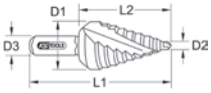
1/4"

	Ø mm	D1 mm	D2 mm	L1 mm	L2 mm	No. stages	Content	
330.2384	4,0-12,0	12,0	4,0	72,0	45,0	9	1	25
330.2385	4,0-20,0	20,0	4,0	81,0	54,0	9	1	85
330.2386	4,0-30,0	30,0	4,0	105,0	78,0	14	1	165

HSS TiN Stepped drill, extra short

- Point thinning according to DIN 1412 C
- Cutting edge has thinning point
- Right hand cutting
- Spiral grooved
- 118° pointed angle
- 90° stepped angle
- Absolute smooth operation
- High cutting achievement
- With TiN coated surface
- High performance steel

The cone simplifies the retracting through bored sheet metals. Breaking chips and swarf are taken away.
The construction of the cutting edges and cold welded joint in the edges blunting is thereby prevented. Ideally suited for construction strength grade sheet metal up to 2.0 mm.

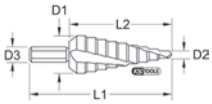


	Ø mm	D1 mm	D2 mm	D3 mm	L1 mm	L2 mm	No. stages	Content	
330.2374	4 - 12	12,0	4,0	6,0	48,0	28,0	9	1	16
330.2375	4 - 20	20,0	4,0	8,0	58,0	38,0	9	1	42
330.2376	4 - 30	30,0	4,0	10,0	72,0	49,0	14	1	130

HSS TiN Stepped drill

- Point thinning according to DIN 1412 C
- Cutting edge has thinning point
- Right hand cutting
- Spiral grooved
- 118° pointed angle
- 90° stepped angle
- Absolute smooth operation
- High cutting achievement
- With TiN coated surface
- High performance steel

The cone simplifies the retracting through bored sheet metals. Higher feed especially in NE metals possible due to the slim cutting edge.



	Ø mm	D1 mm	D2 mm	D3 mm	L1 mm	L2 mm	No. stages	Content	
330.2343	4 - 12	12,0	4,0	6,0	65,0	45,0	9	1	22
330.2344	4 - 20	20,0	4,0	8,0	75,0	55,0	9	1	60
330.2345	4 - 30	30,0	4,0	10,0	100,0	78,0	14	1	185
330.2346	6 - 30	30,0	6,0	10,0	95,0	73,0	13	1	205
330.2347	6 - 37	37,0	6,0	10,0	100,0	76,0	12	1	245
330.2348	6 - 38	38,0	6,0	10,0	100,0	76,0	12	1	260
330.2349	4 - 39	39,0	4,0	10,0	107,0	83,0	13	1	312
330.2350	6 - 40	40,0	6,0	13,0	105,0	81,0	16	1	455
330.2351	6 - 20	20,0	6,0	9,0	71,0	51,0	8	1	100
330.2352	4 - 22	22,0	4,0	10,0	76,0	56,0	10	1	85
330.2353	6 - 26,8	26,8	6,0	10,0	75,0	53,0	8	1	110
330.2354	6 - 32	32,0	6,0	10,0	75,0	53,0	8	1	102
330.2355	6 - 32	32,0	6,0	10,0	76,0	53,0	9	1	108
330.2356	5 - 28	28,0	5,0	9,0	69,0	47,0	7	1	86
330.2357	6 - 25	25,0	6,0	10,0	65,0	42,0	7	1	135
330.2358	6 - 30,5	30,5	6,0	10,0	80,0	57,0	9	1	150
330.2359	6,5 - 40,5	40,5	6,5	10,0	96,0	72,0	11	1	265
330.2360	6 - 36	36,0	6,0	10,0	82,0	57,0	11	1	255
330.2361	7 - 40,5	40,5	7,0	12,0	95,0	70,0	13	1	275
330.2362	4,8 - 10,7	10,7	4,8	6,0	54,0	34,0	5	1	27
330.2363	7 - 32,5	32,5	7,0	12,0	96,0	71,0	11	1	220

HSS TiN Stepped drill set in metal case

- High strength hinge
- Point thinning according to DIN 1412 C
- Cutting edge has thinning point
- Right hand cutting
- Spiral grooved
- 118° pointed angle
- 90° stepped angle
- Absolute smooth operation
- High cutting achievement
- With TiN coated surface
- High performance steel

The cone simplifies the retracting through bored sheet metals. Higher feed especially in NE metals possible due to the slim cutting edge.

330.2423	3 pcs	4 - 12 mm - 4 - 20 mm - 6 - 30 mm	610

HSS TiN Stepped drill set in plastic case

- Stackable for storage
- With integral clasp
- High strength hinge
- Point thinning according to DIN 1412 C
- Cutting edge has thinning point
- Right hand cutting
- Spiral grooved
- 118° pointed angle
- 90° stepped angle
- Absolute smooth operation
- High cutting achievement
- With TiN coated surface
- High performance steel

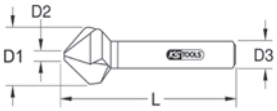
The cone simplifies the retracting through bored sheet metals. Higher feed especially in NE metals possible due to the slim cutting edge.

330.2424	3 pcs	4 - 12 mm - 4 - 20 mm - 6 - 30 mm	610

HSS Co Cone and deburrer 60°

- DIN 334 form C
- Right hand cutting
- 60° Countersink angle
- Cylindrical shaft
- Deep ground flutes
- Surface without discolouration
- High performance cobalt steel

Ideally suitable for deburring and countersinking in steel, non ferrous metals and light metals as well as chatter free countersinking.

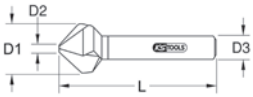


	D1 mm	D2 mm	D3 mm	L mm	Content	
336.0102	6,3	1,6	5,0	45,0	1	10
336.0103	8,0	2,0	6,0	50,0	1	12
336.0104	10,0	2,5	6,0	53,0	1	14
336.0105	12,5	3,2	8,0	56,0	1	24
336.0106	16,0	4,0	10,0	63,0	1	44
336.0107	20,0	5,0	10,0	67,0	1	50
336.0108	25,0	6,3	10,0	71,0	1	64
336.0109	31,5	10,0	12,0	76,0	1	78

HSS Co Cone and deburrer 75°

- Form C
- Right hand cutting
- 75° Countersink angle
- Cylindrical shaft
- Deep ground flutes
- Surface without discolouration
- High performance cobalt steel

Ideally suitable for deburring and countersinking in steel, non ferrous metals and light metals as well as chatter free countersinking.



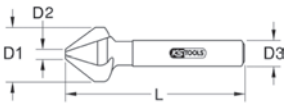
	D1 mm	D2 mm	D3 mm	L mm	Content	
336.0110	6,3	1,6	5,0	45,0	1	10
336.0111	8,0	2,0	6,0	50,0	1	12
336.0112	10,0	2,5	6,0	53,0	1	14
336.0113	12,5	3,2	8,0	56,0	1	24
336.0114	16,0	4,0	10,0	63,0	1	44
336.0115	20,0	5,0	10,0	67,0	1	50
336.0116	25,0	6,3	10,0	71,0	1	64
336.0117	31,5	10,0	12,0	76,0	1	78

CONE - AND DEBURRING 60°

HSS Cone and deburrer 60°

- DIN 334 form C
- Right hand cutting
- 60° Countersink angle
- Cylindrical shaft
- Deep ground flutes
- Surface without discolouration
- High performance steel

Ideally suitable for deburring and countersinking in steel, non ferrous metals and light metals as well as chatter free countersinking.



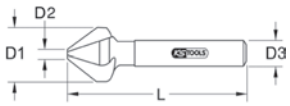
	D1 mm	D2 mm	D3 mm	L mm	Content	
336.0034	6,3	1,6	5,0	45,0	1	10
336.0035	8,0	2,0	6,0	50,0	1	12
336.0036	10,0	2,5	6,0	53,0	1	12
336.0037	12,5	3,2	8,0	56,0	1	24
336.0038	16,0	4,0	10,0	63,0	1	42
336.0039	20,0	5,0	10,0	67,0	1	50
336.0040	25,0	6,3	10,0	71,0	1	66
336.0041	31,5	10,0	12,0	76,0	1	78

CONE - AND DEBURRING 75°

HSS Cone and deburrer 75°

- Form C
- Right hand cutting
- 75° Countersink angle
- Cylindrical shaft
- Deep ground flutes
- Surface without discolouration
- High performance steel

Ideally suitable for deburring and countersinking in steel, non ferrous metals and light metals as well as chatter free countersinking.



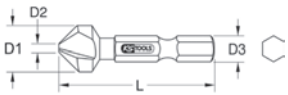
	D1 mm	D2 mm	D3 mm	L mm	Content	
336.0042	6,3	1,6	5,0	45,0	1	10
336.0043	8,0	2,0	6,0	50,0	1	12
336.0044	10,0	2,5	6,0	53,0	1	14
336.0045	12,5	3,2	8,0	56,0	1	24
336.0046	16,0	4,0	10,0	63,0	1	44
336.0047	20,0	5,0	10,0	67,0	1	50
336.0048	25,0	6,3	10,0	71,0	1	64
336.0049	31,5	10,0	12,0	76,0	1	78

CONE - AND DEBURRING 90°

HSS Cone and deburrer bit 90°

- Right hand cutting
- 90° Countersink angle
- 1/4" external hexagon drive adaptor to DIN 3126 - C 6,3
- Three cutting edges
- Surface without discolouration
- High performance steel

Ideally suitable for deburring and countersinking in steel, non ferrous metals and light metals as well as chatter free countersinking.



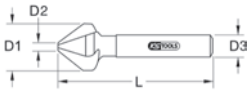
1/4"

	D1 mm	D2 mm	D3 mm	L mm	Content	
336.0274	6,3	1,0	6,4	45,0	1	10
336.0275	8,3	1,5	6,4	50,0	1	14
336.0276	10,4	2,0	6,4	50,0	1	15
336.0277	12,4	2,0	6,4	56,0	1	26
336.0278	16,5	2,5	6,4	60,0	1	36
336.0279	20,5	3,0	6,4	63,0	1	52

HSS Cone and deburrer 90°

- DIN 335 form C
- Right hand cutting
- 90° Countersink angle
- Three cutting edges
- Cylindrical shaft
- Deep ground flutes
- Surface without discolouration
- High performance steel

Ideally suitable for deburring and countersinking in steel, non ferrous metals and light metals as well as chatter free countersinking.



	D1 mm	D2 mm	D3 mm	L mm	Countersink DIN 74 AF	Countersink DIN 74 BF	Content	g
336.0050	4,3	1,3	4,0	40,0			1	9
336.0051	5,0	1,5	4,0	40,0	M2,5		1	9
336.0052	5,3	1,5	4,0	40,0			1	9
336.0053	5,8	1,5	5,0	45,0			1	10
336.0054	6,0	1,5	5,0	45,0	M3		1	10
336.0055	6,3	1,5	5,0	45,0		M3	1	10
336.0056	7,0	1,8	6,0	50,0	M3,5		1	13
336.0057	7,3	1,8	6,0	50,0			1	13
336.0058	8,0	2,0	6,0	50,0	M4		1	15
336.0059	8,3	2,0	6,0	50,0		M4	1	15
336.0060	9,4	2,2	6,0	50,0			1	18
336.0061	10,0	2,5	6,0	50,0	M5		1	20
336.0062	10,4	2,5	6,0	50,0		M5	1	20
336.0063	11,5	2,8	8,0	56,0	M6		1	26
336.0064	12,4	2,8	8,0	56,0		M6	1	26
336.0065	13,4	2,9	8,0	56,0			1	26
336.0066	15,0	3,2	10,0	60,0	M8		1	36
336.0067	16,5	3,2	10,0	60,0		M8	1	36
336.0068	19,0	3,5	10,0	63,0	M10		1	52
336.0069	20,5	3,5	10,0	63,0		M10	1	52
336.0070	23,0	3,8	10,0	67,0	M12		1	62
336.0071	25,0	3,8	10,0	67,0		M12	1	62
336.0072	26,0	3,9	12,0	71,0	M14		1	65
336.0073	28,0	4,0	12,0	71,0		M14	1	70
336.0074	30,0	4,1	12,0	71,0	M16		1	70
336.0075	31,0	4,2	12,0	71,0		M16	1	70

HSS Cone and deburrer set 90° in metal case

- High strength hinge
- DIN 335 form C
- Right hand cutting
- 90° Countersink angle
- Three cutting edges
- Cylindrical shaft
- Deep ground flutes
- Surface without discolouration
- High performance steel

Ideally suitable for deburring and countersinking in steel, non ferrous metals and light metals as well as chatter free countersinking.

336.0406	6 pcs	6,3 - 8,3 - 10,4 - 12,4 - 16,5 - 20,5 mm	530	

HSS Cone and deburrer set 90° in plastic case

- Stackable for storage
- With integral clasp
- High strength hinge
- DIN 335 form C
- Right hand cutting
- 90° Countersink angle
- Three cutting edges
- Cylindrical shaft
- Deep ground flutes
- Surface without discolouration
- High performance steel

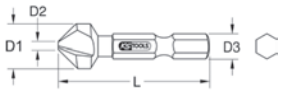
Ideally suitable for deburring and countersinking in steel, non ferrous metals and light metals as well as chatter free countersinking.

336.0446	6 pcs	6,3 - 8,3 - 10,4 - 12,4 - 16,5 - 20,5 mm	530	

HSS Co Cone and deburrer bit 90°

- Right hand cutting
- 90° Countersink angle
- 1/4" external hexagon drive adaptor to DIN 3126 - C 6,3
- Three cutting edges
- Surface without discolouration
- High performance cobalt steel

Ideally suitable for deburring and countersinking in steel, non ferrous metals and light metals as well as chatter free countersinking.



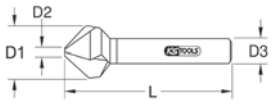
1/4"

	D1 mm	D2 mm	D3 mm	L mm	Content	g
336.0300	6,3	1,0	6,4	45,0	1	10
336.0301	8,3	1,5	6,4	50,0	1	14
336.0302	10,4	2,0	6,4	50,0	1	15
336.0303	12,4	2,0	6,4	56,0	1	26
336.0304	16,5	2,5	6,4	60,0	1	36
336.0305	20,5	3,0	6,4	63,0	1	52

HSS Co 5 Cone and deburrer 90°

- DIN 335 form C
- Right hand cutting
- 90° Countersink angle
- Three cutting edges
- Cylindrical shaft
- Deep ground flutes
- Surface without discolouration
- High performance cobalt steel

Ideally suitable for deburring and countersinking in steel, non ferrous metals and light metals as well as chatter free countersinking.



	D1 mm	D2 mm	D3 mm	L mm	Countersink DIN 74 AF	Countersink DIN 74 BF	Content	g
336.0118	4,3	1,3	4,0	40,0			1	9
336.0119	5,0	1,5	4,0	40,0	M2,5		1	9
336.0120	5,3	1,5	4,0	40,0			1	9
336.0121	5,8	1,5	5,0	45,0			1	10
336.0122	6,0	1,5	5,0	45,0	M3		1	10
336.0123	6,3	1,5	5,0	45,0		M3	1	10
336.0124	7,0	1,8	6,0	50,0	M3,5		1	13
336.0125	7,3	1,8	6,0	50,0			1	13
336.0126	8,0	2,0	6,0	50,0	M4		1	15
336.0127	8,3	2,0	6,0	50,0		M4	1	15
336.0128	9,4	2,2	6,0	50,0			1	18
336.0129	10,0	2,5	6,0	50,0	M5		1	20
336.0130	10,4	2,5	6,0	50,0		M5	1	20
336.0131	11,5	2,8	8,0	56,0	M6		1	26
336.0132	12,4	2,8	8,0	56,0		M6	1	26
336.0133	13,4	2,9	8,0	56,0			1	26
336.0134	15,0	3,2	10,0	60,0	M8		1	36
336.0135	16,5	3,2	10,0	60,0		M8	1	36
336.0136	19,0	3,5	10,0	63,0	M10		1	52
336.0137	20,5	3,5	10,0	63,0		M10	1	52
336.0138	23,0	3,8	10,0	67,0	M12		1	62
336.0139	25,0	3,8	10,0	67,0		M12	1	62
336.0140	26,0	3,9	12,0	71,0	M14		1	65
336.0141	28,0	4,0	12,0	71,0		M14	1	70
336.0142	30,0	4,1	12,0	71,0	M16		1	70
336.0143	31,0	4,2	12,0	71,0		M16	1	70

HSS Co 5 Cone and deburrer set 90° in metal case

- High strength hinge
- DIN 335 form C
- Right hand cutting
- 90° Countersink angle
- Three cutting edges
- Cylindrical shaft
- Deep ground flutes
- Surface without discolouration
- High performance cobalt steel

Ideally suitable for deburring and countersinking in steel, non ferrous metals and light metals as well as chatter free countersinking.

336.0416	6 pcs	6.3 - 8.3 - 10.4 - 12.4 - 16.5 - 20.5 mm	530	

HSS Co 5 Cone and deburrer set 90° in plastic case

- Stackable for storage
- With integral clasp
- High strength hinge
- DIN 335 form C
- Right hand cutting
- 90° Countersink angle
- Three cutting edges
- Cylindrical shaft
- Deep ground flutes
- Surface without discolouration
- High performance cobalt steel

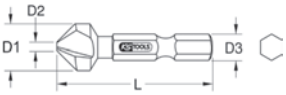
Ideally suitable for deburring and countersinking in steel, non ferrous metals and light metals as well as chatter free countersinking.

336.0456	6 pcs	6.3 - 8.3 - 10.4 - 12.4 - 16.5 - 20.5 mm	530

HSS TiN Cone and deburrer bit 90°

- Right hand cutting
- 90° Countersink angle
- Three cutting edges
- 1/4" external hexagon drive adaptor to DIN 3126 - C 6,3
- TiN coated surface
- High performance steel

Ideally suitable for deburring and countersinking in steel, non ferrous metals and light metals as well as chatter free countersinking.



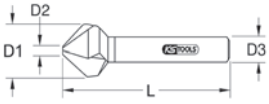
1/4"

	D1 mm	D2 mm	D3 mm	L mm	Content	
336.0326	6,3	1,0	6,4	45,0	1	10
336.0327	8,3	1,5	6,4	50,0	1	14
336.0328	10,4	2,0	6,4	50,0	1	15
336.0329	12,4	2,0	6,4	56,0	1	26
336.0330	16,5	2,5	6,4	60,0	1	36
336.0331	20,5	3,0	6,4	63,0	1	52

HSS TiN Cone and deburrer 90°

- DIN 335 form C
- Right hand cutting
- 90° Countersink angle
- Three cutting edges
- Cylindrical shaft
- Deep ground flutes
- TiN coated surface
- High performance steel

Ideally suitable for deburring and countersinking in steel, non ferrous metals and light metals as well as chatter free countersinking.



	D1 mm	D2 mm	D3 mm	L mm	Countersink DIN 74 AF	Countersink DIN 74 BF	Content	
336.0170	4,3	1,3	4,0	40,0			1	9
336.0171	5,0	1,5	4,0	40,0	M2,5		1	9
336.0172	5,3	1,5	4,0	40,0			1	9
336.0173	5,8	1,5	5,0	45,0			1	10
336.0174	6,0	1,5	5,0	45,0	M3		1	10
336.0175	6,3	1,5	5,0	45,0		M3	1	10
336.0176	7,0	1,8	6,0	50,0	M3,5		1	13
336.0177	7,3	1,8	6,0	50,0			1	13
336.0178	8,0	2,0	6,0	50,0	M4		1	15
336.0179	8,3	2,0	6,0	50,0		M4	1	15
336.0180	9,4	2,0	6,0	50,0			1	18
336.0181	1,0	2,5	6,0	50,0	M5		1	20
336.0182	10,4	2,5	6,0	50,0		M5	1	20
336.0183	11,5	2,8	8,0	56,0	M6		1	26
336.0184	12,4	2,8	8,0	56,0		M6	1	26
336.0185	13,4	2,9	8,0	56,0			1	26
336.0186	15,0	3,2	10,0	60,0	M8		1	36
336.0187	16,5	3,2	10,0	60,0		M8	1	36
336.0188	19,0	3,5	10,0	63,0	M10		1	52
336.0189	20,5	3,5	10,0	63,0		M10	1	52
336.0190	23,0	3,8	10,0	67,0	M12		1	62
336.0191	25,0	3,8	10,0	67,0		M12	1	62
336.0192	26,0	3,9	12,0	71,0	M14		1	65
336.0193	28,0	4,0	12,0	71,0		M14	1	70
336.0194	30,0	4,1	12,0	71,0	M16		1	70
336.0195	31,0	4,2	12,0	71,0		M16	1	70

HSS TiN Cone and deburrer set 90° in metal case

- High strength hinge
- DIN 335 form C
- Right hand cutting
- 90° Countersink angle
- Three cutting edges
- Cylindrical shaft
- Deep ground flutes
- TiN coated surface
- High performance steel

Ideally suitable for deburring and countersinking in steel, non ferrous metals and light metals as well as chatter free countersinking.

336.0426	6 pcs	6.3 - 8.3 - 10.4 - 12.4 - 16.5 - 20.5 mm	530

HSS TiN Cone and deburrer set 90° in plastic case

- Stackable for storage
- With integral clasp
- High strength hinge
- DIN 335 form C
- Right hand cutting
- 90° Countersink angle
- Three cutting edges
- Cylindrical shaft
- Deep ground flutes
- TiN coated surface
- High performance steel

Ideally suitable for deburring and countersinking in steel, non ferrous metals and light metals as well as chatter free countersinking.

336.0466	6 pcs	6.3 - 8.3 - 10.4 - 12.4 - 16.5 - 20.5 mm	530

CONE - AND DEBURRING 120°

HSS Cone and deburrer 120°

- Form C
- Right hand cutting
- 120° Countersink angle
- Cylindrical shaft
- Deep ground flutes
- Surface without discolouration
- High performance steel

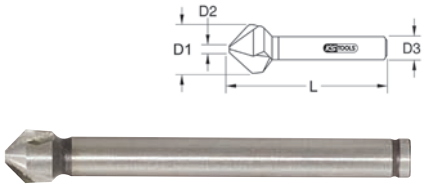
Ideally suitable for deburring and countersinking in steel, non ferrous metals and light metals as well as chatter free countersinking.

	D1 mm	D2 mm	D3 mm	L mm	Content	
336.0076	6,3	1,5	5,0	45,0	1	14
336.0077	8,3	2,0	6,0	50,0	1	14
336.0078	10,4	2,5	6,0	50,0	1	20
336.0079	12,4	2,8	8,0	56,0	1	28
336.0080	16,5	3,2	10,0	60,0	1	46
336.0081	20,5	3,5	10,0	63,0	1	54
336.0082	25,0	3,8	10,0	67,0	1	62

HSS Co Cone and deburrer 120°

- Form C
- Right hand cutting
- 120° Countersink angle
- Cylindrical shaft
- Deep ground flutes
- Surface without discolouration
- High performance cobalt steel

Ideally suitable for deburring and countersinking in steel, non ferrous metals and light metals as well as chatter free countersinking.

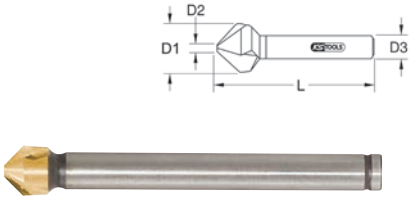


	D1 mm	D2 mm	D3 mm	L mm	Content	g
336.0144	6,3	1,5	5,0	45,0	1	10
336.0145	8,3	2,0	6,0	50,0	1	15
336.0146	10,4	2,5	6,0	50,0	1	20
336.0147	12,4	2,8	8,0	56,0	1	26
336.0148	16,5	3,2	10,0	60,0	1	36
336.0149	20,5	3,5	10,0	63,0	1	52
336.0150	25,0	3,8	10,0	67,0	1	62

HSS TiN Cone and deburrer 120°

- Form C
- Right hand cutting
- 120° Countersink angle
- Cylindrical shaft
- Deep ground flutes
- TiN coated surface
- High performance steel

Ideally suitable for deburring and countersinking in steel, non ferrous metals and light metals as well as chatter free countersinking.



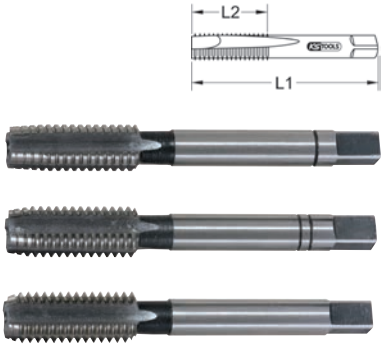
	D1 mm	D2 mm	D3 mm	L mm	Content	g
336.0201	6,3	1,5	5,0	45,0	1	14
336.0202	8,3	2,0	6,0	50,0	1	14
336.0203	10,4	2,5	6,0	50,0	1	20
336.0204	12,4	2,8	8,0	56,0	1	28
336.0205	16,5	3,2	10,0	60,0	1	46
336.0206	20,5	3,5	10,0	63,0	1	54
336.0207	25,0	3,8	10,0	67,0	1	62

HSS THREADED TAP

HSS hand drill tap set M

- DIN 352
- Tolerance according to ISO 2 / 6H
- Right hand cutting
- Includes second and bottom tap
- For running and blind hole threads
- With hard metal centre
- Surface without discolouration
- High performance high speed steel

Ideally usably in high and low alloyed steel up to 800 N/mm² stability, cast iron and NE metals.



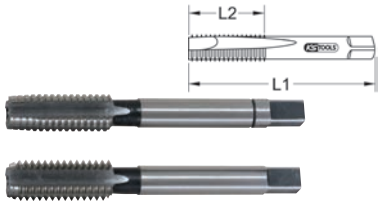
Taper tap: ca. 5 - 6 cutting gears
Second tap: ca. 4 - 5 cutting gears
Bottom tap: ca. 2 - 3 cutting gears

	mm	mm	L1 mm	Individual taper tap	Individual second tap	Individual bottom tap	L2 mm	g
331.0020	M2 x 0,4	1,60	36,0	331.0301	331.0321	331.0341	8,0	8
331.0025	M2,5 x 0,45	2,10	40,0	331.0302	331.0322	331.0342	8,0	10
331.0030	M3 x 0,5	2,50	40,0	331.0303	331.0323	331.0343	10,0	10
331.0035	M3,5 x 0,6	2,90	45,0	331.0304	331.0324	331.0344	12,0	10
331.0040	M4 x 0,7	3,30	45,0	331.0305	331.0325	331.0345	12,0	10
331.0050	M5 x 0,8	4,20	50,0	331.0306	331.0326	331.0346	13,0	30
331.0060	M6 x 1,0	5,00	56,0	331.0307	331.0327	331.0347	15,0	30
331.0070	M7 x 1,0	6,00	56,0	331.0308	331.0328	331.0348	16,0	30
331.0080	M8 x 1,25	6,80	63,0	331.0309	331.0329	331.0349	18,0	40
331.0100	M10 x 1,5	8,50	70,0	331.0310	331.0330	331.0350	24,0	70
331.0110	M11 x 1,5	8,50	70,0	331.0311	331.0331	331.0351	24,0	90
331.0120	M12 x 1,75	10,20	75,0	331.0312	331.0332	331.0352	29,0	110
331.0140	M14 x 2,0	12,00	80,0	331.0313	331.0333	331.0353	30,0	150
331.0160	M16 x 2,0	14,00	80,0	331.0314	331.0334	331.0354	32,0	200
331.0180	M18 x 2,5	15,50	95,0	331.0315	331.0335	331.0355	40,0	260
331.0200	M20 x 2,5	17,50	95,0	331.0316	331.0336	331.0356	40,0	330
331.0220	M22 x 2,5	19,50	100,0	331.0317	331.0337	331.0357	40,0	400
331.0240	M24 x 3,0	21,00	110,0	331.0318	331.0338	331.0358	45,0	470
331.0270	M27 x 3,0	24,00	110,0	331.0319	331.0339	331.0359	50,0	530
331.0300	M30 x 3,5	26,50	125,0	331.0320	331.0340	331.0360	56,0	600

HSS hand drill tap set MF

- DIN 2181
- Tolerance according to ISO 2 / 6H
- Right hand cutting
- Includes for cutting and threading
- For running and blind hole threads
- With hard metal centre
- Surface without discolouration
- High performance high speed steel

Ideally usably in high and low alloyed steel up to 800 N/mm² stability, cast iron and NE metals.



Taper tap: ca. 5 - 6 cutting gears
Bottom tap: ca. 2 - 3 cutting gears

	mm	mm	L1 mm	Individual taper tap	Individual bottom tap	L2 mm	g
331.1101	MF3 x 0,35	2,60	40,0	331.1201	331.1301	10,0	10
331.1102	MF4 x 0,5	3,50	45,0	331.1202	331.1302	12,0	10
331.1103	MF5 x 0,5	4,50	50,0	331.1203	331.1303	13,0	20
331.1104	MF6 x 0,75	5,20	50,0	331.1204	331.1304	15,0	20
331.1105	MF7 x 0,76	6,20	50,0	331.1205	331.1305	14,0	20
331.1106	MF8 x 0,75	7,20	56,0	331.1206	331.1306	18,0	30
331.1107	MF8 x 1,0	7,00	56,0	331.1207	331.1307	18,0	30
331.1108	MF9 x 1,0	8,00	63,0	331.1208	331.1308	20,0	40
331.1109	MF10 x 1	9,00	63,0	331.1209	331.1309	18,0	50
331.1110	MF10 x 1,25	8,70	70,0	331.1210	331.1310	24,0	50
331.1111	MF11 x 1,0	9,20	63,0	331.1211	331.1311	22,0	60
331.1112	MF12 x 1,0	11,00	70,0	331.1212	331.1312	20,0	80
331.1113	MF12 x 1,25	10,70	70,0	331.1213	331.1313	20,0	80
331.1114	MF12 x 1,5	10,50	70,0	331.1214	331.1314	20,0	80
331.1115	MF14 x 1,0	13,00	70,0	331.1215	331.1315	20,0	100
331.1116	MF14 x 1,25	12,70	70,0	331.1216	331.1316	20,0	100
331.1117	MF14 x 1,5	12,50	70,0	331.1217	331.1317	20,0	100
331.1118	MF16 x 1,5	14,50	70,0	331.1218	331.1318	20,0	160
331.1119	MF18 x 1,0	17,00	80,0	331.1219	331.1319	22,0	190
331.1120	MF18 x 1,25	16,80	80,0	331.1220	331.1320	22,0	190
331.1121	MF18 x 1,5	16,50	80,0	331.1221	331.1321	22,0	190
331.1122	MF18 x 2,0	16,00	80,0	331.1222	331.1322	22,0	190
331.1123	MF20 x 1,0	19,00	80,0	331.1223	331.1323	22,0	250
331.1124	MF20 x 1,25	18,80	80,0	331.1224	331.1324	22,0	250
331.1125	MF20 x 1,5	18,50	80,0	331.1225	331.1325	22,0	250
331.1126	MF20 x 2,0	18,00	80,0	331.1226	331.1326	22,0	250

HSS hand drill tap set M in steel case

- High strength hinge
- DIN 352
- Tolerance according to ISO 2 / 6H
- Right hand cutting
- Includes second and bottom tap
- For running and blind hole threads
- With hard metal centre
- Surface without discolouration
- High performance high speed steel
- Each size includes 1x second and bottom tap

Ideally usably in high and low alloyed steel up to 800 N/mm² stability, cast iron and NE metals.

Taper tap: ca. 5 - 6 cutting gears
Second tap: ca. 4 - 5 cutting gears
Bottom tap: ca. 2 - 3 cutting gears

			g
336.0621	21 pcs	M3 - M4 - M5 - M6 - M8 - M10 - M12	620

HSS hand drill tap set M in plastic case

- Stackable for storage
- With integral clasp
- High strength hinge
- DIN 352
- Tolerance according to ISO 2 / 6H
- Right hand cutting
- Includes second and bottom tap
- For running and blind hole threads
- With hard metal centre
- Surface without discolouration
- High performance high speed steel
- Each size includes 1x second and bottom tap

Ideally usably in high and low alloyed steel up to 800 N/mm² stability, cast iron and NE metals.

Taper tap:	ca. 5 - 6 cutting gears
Second tap:	ca. 4 - 5 cutting gears
Bottom tap:	ca. 2 - 3 cutting gears

			g
336.0641	21 pcs	M3 - M4 - M5 - M6 - M8 - M10 - M12	620

HSS tap and die set in metal case

- Universal set
- Straight forward hand thread cutting
- With adjustable tap wrench and die holder
- Includes tamperproof drill, thread gauge and screwdriver
- High performance steel

			kg
331.0644	44 pcs	HSS tap and die set in metal case	3,93
21 x		M3 - M4 - M5 - M6 - M8 - M10 - M12	
7 x		2,5 - 3,3 - 4,2 - 5 - 6,8 - 8,5 - 10,2 mm	
7 x		M3 - M4 - M5 - M6 - M8 - M10 - M12	
5 x		M3-M4 - M4,5-M6 - M7-M9 - M10-M11 - M12-M14	
2 x		M1-M10 - M3-M12	
1 x			
1 x			

HSS tap and die set in metal case

- Universal set
- Straight forward hand thread cutting
- With adjustable tap wrench and die holder
- Includes thread gauge and screwdriver
- High performance steel

			kg
331.0632	32 pcs	HSS tap and die set in metal case	1,32
21 x		M3 - M4 - M5 - M6 - M8 - M10 - M12	
7 x		M3 - M4 - M5 - M6 - M8 - M10 - M12	
1 x		M7 - M9	
1 x		M1 - M12	
1 x			
1 x			

HSS tap and die set in metal case

- Straight forward hand thread cutting
- With adjustable tap wrench and die holder
- Includes thread gauge and screwdriver
- High performance steel

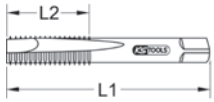
			kg
331.0654	54 pcs	HSS tap and die set in metal case	8,30
33 x		M3 - M4 - M5 - M6 - M8 - M10 - M12 - M14 - M15 - M18 - M20	
11 x		M3 - M4 - M5 - M6 - M8 - M10 - M12 - M14 - M15 - M18 - M20	
6 x		M3-M4 - M4,5-M6 - M7-M9 - M10-M11 - M12-M14 - M16-M20	
2 x		M1-M10 - M5-M20	
1 x			
1 x			

HSS CO THREADED TAP

HSS Co slitting tap and die M

- DIN 352 form B
- Tolerance according to ISO 2 / 6H
- Right hand cutting
- Hard metal centre
- Metric thread
- Thread process by slicing the cutting edge
- Surface without discolouration
- High performance cobalt steel

Ideally usably in high and low alloyed steel up to 900 N/mm² stability, cast iron and NE metals.

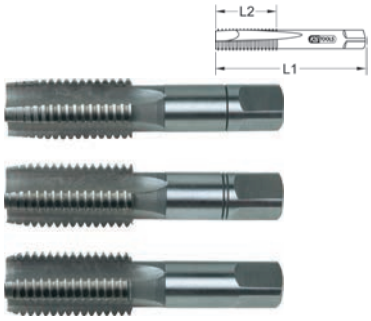


		mm	L1 mm	L2 mm	Content	g
331.0223	M3 x 0,5	2,50	40,0	11,0	1	4
331.0224	M4 x 0,7	3,30	45,0	13,0	1	7
331.0225	M5 x 0,8	4,20	50,0	16,0	1	11
331.0226	M6 x 1,0	5,00	50,0	19,0	1	13
331.0228	M8 x 1,25	6,80	56,0	22,0	1	15
331.0230	M10 x 1,5	8,50	70,0	24,0	1	30
331.0232	M12 x 1,75	10,50	75,0	29,0	1	44

HSS Co hand drill tap set M

- DIN 352
- Tolerance according to ISO 2 / 6H
- Right hand cutting
- Includes second and bottom tap
- For running and blind hole threads
- With hard metal centre
- Surface without discolouration
- High performance cobalt steel

Ideally usably in high and low alloyed steel up to 900 N/mm² stability, cast iron and NE metals.



Taper tap:	ca. 5 - 6 cutting gears
Second tap:	ca. 4 - 5 cutting gears
Bottom tap:	ca. 2 - 3 cutting gears

		mm	L1 mm	Individual taper tap	Individual second tap	Individual bottom tap	L2 mm	g
331.2020	M2 x 0,4	1,60	36,0	331.2301	331.3321	331.3341	8,0	10
331.2025	M2,5 x 0,45	2,10	40,0	331.2302	331.3322	331.3342	9,0	12
331.2030	M3 x 0,5	2,50	40,0	331.2303	331.3323	331.3343	11,0	12
331.2035	M3,5 x 0,6	2,90	45,0	331.2304	331.3324	331.3344	13,0	18
331.2040	M4 x 0,7	3,30	45,0	331.2305	331.3325	331.3345	13,0	20
331.2050	M5 x 0,8	4,20	50,0	331.2306	331.3326	331.3346	16,0	34
331.2060	M6 x 1,0	5,00	50,0	331.2307	331.3327	331.3347	19,0	40
331.2070	M7 x 1,0	6,00	50,0	331.2308	331.3328	331.3348	19,0	44
331.2080	M8 x 1,25	6,80	56,0	331.2309	331.3329	331.3349	22,0	48
331.2100	M10 x 1,5	8,50	70,0	331.2310	331.3330	331.3350	24,0	92
331.2110	M11 x 1,5	8,50	70,0	331.2311	331.3331	331.3351	24,0	112
331.2120	M12 x 1,75	10,20	75,0	331.2312	331.3332	331.3352	29,0	134
331.2140	M14 x 2,0	12,00	80,0	331.2313	331.3333	331.3353	30,0	200
331.2160	M16 x 2,0	14,00	80,0	331.2314	331.3334	331.3354	32,0	230
331.2180	M18 x 2,5	15,50	95,0	331.2315	331.3335	331.3355	40,0	365
331.2200	M20 x 2,5	17,50	95,0	331.2316	331.3336	331.3356	40,0	445
331.2220	M22 x 2,5	19,50	100,0	331.2317	331.3337	331.3357	40,0	470
331.2240	M24 x 3,0	21,00	110,0	331.2318	331.3338	331.3358	50,0	530
331.2270	M27 x 3,0	24,00	110,0	331.2319	331.3339	331.3359	50,0	565
331.2300	M30 x 3,5	26,50	125,0	331.2320	331.3340	331.3360	56,0	606

HSS Co hand drill tap set M in metal case

- High strength hinge
- DIN 352
- Tolerance according to ISO 2 / 6H
- Right hand cutting
- Includes second and bottom tap
- For running and blind hole threads
- With hard metal centre
- Surface without discolouration
- High performance cobalt steel
- Each size includes 1x second and bottom tap

Ideally usably in high and low alloyed steel up to 900 N/mm² stability, cast iron and NE metals.

Taper tap:	ca. 5 - 6 cutting gears
Second tap:	ca. 4 - 5 cutting gears
Bottom tap:	ca. 2 - 3 cutting gears

			g
336.0631	21 pcs	M3 - M4 - M5 - M6 - M8 - M10 - M12	620

HSS Co tap and die set in metal case

- Universal set
- Straight forward hand thread cutting
- With adjustable tap wrench and die holder
- Includes thread gauge and screwdriver
- High performance cobalt steel

			kg
331.0732	32 pcs	HSS Co tap and die set in metal case	1,32
21 x		M3 - M4 - M5 - M6 - M8 - M10 - M12	
7 x		M3 - M4 - M5 - M6 - M8 - M10 - M12	
1 x		M7 - M9	
1 x		M1 - M12	
1 x			
1 x			

HSS Co tap and die set in metal case

- Universal set
- Straight forward hand thread cutting
- With adjustable tap wrench and die holder
- Includes thread gauge and screwdriver
- High performance cobalt steel

			kg
331.0754	54 pcs	HSS Co tap and die set in metal case	8,30
33 x		M3 - M4 - M5 - M6 - M8 - M10 - M12 M14 - M15 - M18 - M20	
11 x		M3 - M4 - M5 - M6 - M8 - M10 - M12 M14 - M15 - M18 - M20	
6 x		M3-M4 - M4,5-M6 - M7-M9 - M10 M11 - M12-M14 - M16-M20	
2 x		M1-M10 - M5-M20	
1 x			
1 x			

HSS Co hand drill tap set M in plastic case

- Stackable for storage
- With integral clasp
- High strength hinge
- DIN 352
- Tolerance according to ISO 2 / 6H
- Right hand cutting
- Includes second and bottom tap
- For running and blind hole threads
- With hard metal centre
- Surface without discolouration
- High performance cobalt steel
- Each size includes 1x second and bottom tap

Ideally usably in high and low alloyed steel up to 900 N/mm² stability, cast iron and NE metals.

Taper tap:	ca. 5 - 6 cutting gears
Second tap:	ca. 4 - 5 cutting gears
Bottom tap:	ca. 2 - 3 cutting gears

			g
336.0651	21 pcs	M3 - M4 - M5 - M6 - M8 - M10 - M12	620

HSS Co tap and die set in metal case

- Universal set
- Straight forward hand thread cutting
- With adjustable tap wrench and die holder
- Includes thread gauge and screwdriver
- High performance cobalt steel

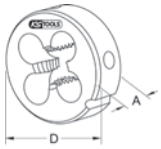
			kg
331.0744	44 pcs	HSS Co tap and die set in metal case	3,93
21 x		M3 - M4 - M5 - M6 - M8 - M10 - M12	
7 x		2,5 - 3,3 - 4,2 - 5 - 6,8 - 8,5 - 10,2 mm	
7 x		M3 - M4 - M5 - M6 - M8 - M10 - M12	
5 x		M3-M4 - M4,5-M6 - M7-M9 - M10 M11 - M12-M14	
2 x		M1-M10 - M3-M12	
1 x			
1 x			

DIE STOCKS

HSS die M

- DIN EN 22568 form B
- Tolerance according to ISO - 6g
- Right hand cutting
- Specification, ground cutting edge
- Metric thread
- Surface without discolouration
- High performance steel

Ideally usably in high and low alloyed steel up to 800 N/mm² tensile

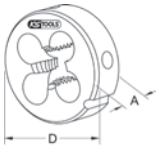


		A mm	D mm	Content	g
332.0030	M3 x 0,50	5,0	20,0	1	8
332.0040	M4 x 0,70	5,0	20,0	1	10
332.0050	M5 x 0,80	7,0	20,0	1	12
332.0060	M6 x 1,00	7,0	20,0	1	14
332.0070	M7 x 1,00	9,0	25,0	1	18
332.0080	M8 x 1,25	9,0	25,0	1	20
332.0090	M9 x 1,25	9,0	25,0	1	35
332.0100	M10 x 1,50	11,0	30,0	1	50
332.0120	M12 x 1,75	14,0	38,0	1	60
332.0140	M14 x 2,00	14,0	38,0	1	73
332.0160	M16 x 2,00	18,0	40,0	1	199
332.0180	M18 x 2,50	18,0	40,0	1	220
332.0200	M20 x 2,50	18,0	40,0	1	240

HSS die MF

- DIN EN 22568 form B
- Tolerance according to ISO - 6g
- Right hand cutting
- Specification, ground cutting edge
- Metric fine thread
- Surface without discolouration
- High performance steel

Ideally usably in high and low alloyed steel up to 800 N/mm² stability and NE metals.

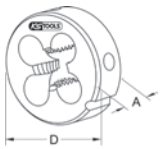


		A mm	D mm	Content		
332.1000	M3 x 0,35	5,0	20,0	1	10	
332.1001	M4 x 0,5	5,0	20,0	1	10	
332.1002	M5 x 0,5	5,0	20,0	1	10	
332.1003	M6 x 0,75	7,0	20,0	1	10	
332.1004	M7 x 0,75	9,0	25,0	1	20	
332.1005	M8 x 0,75	9,0	25,0	1	20	
332.1006	M8 x 1,0	9,0	25,0	1	20	
332.1007	M9 x 1,0	9,0	25,0	1	20	
332.1008	M10 x 1,0	11,0	30,0	1	30	
332.1009	M10 x 1,25	11,0	30,0	1	30	
332.1010	M11 x 1,0	11,0	30,0	1	60	
332.1011	M12 x 1,0	11,0	38,0	1	80	
332.1012	M12 x 1,25	11,0	38,0	1	80	
332.1013	M12 x 1,5	11,0	38,0	1	80	
332.1014	M14 x 1,0	10,0	38,0	1	80	
332.1015	M14 x 1,25	10,0	38,0	1	80	
332.1016	M14 x 1,5	10,0	38,0	1	80	
332.1017	M16 x 1,0	14,0	45,0	1	100	
332.1018	M16 x 1,25	14,0	45,0	1	100	
332.1019	M16 x 1,5	14,0	45,0	1	100	
332.1020	M18 x 1,0	14,0	45,0	1	100	
332.1021	M18 x 1,25	14,0	45,0	1	100	
332.1022	M18 x 1,5	14,0	45,0	1	100	
332.1023	M18 x 2,0	14,0	45,0	1	100	
332.1024	M20 x 1,0	14,0	45,0	1	100	
332.1025	M20 x 1,25	14,0	45,0	1	100	
332.1026	M20 x 1,5	14,0	45,0	1	100	
332.1027	M20 x 2,0	14,0	45,0	1	100	
332.1063	M22 x 1,5	16,0	55,0	1	110	

HSS Co die M

- DIN EN 22568 form B
- Tolerance according to ISO - 6g
- Right hand cutting
- Specification, ground cutting edge
- Metric thread
- Surface without discolouration
- High performance cobalt high speed steel

Ideally usably in high and low alloyed steel up to 900 N/mm² stability and NE metals.

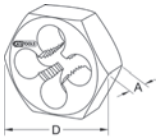


		A mm	D mm	Content		
332.0001	M3 x 0,50	5,0	20,0	1	8	
332.0002	M4 x 0,70	5,0	20,0	1	10	
332.0003	M5 x 0,80	7,0	20,0	1	12	
332.0004	M6 x 1,00	7,0	20,0	1	14	
332.0005	M7 x 1,00	9,0	25,0	1	18	
332.0006	M8 x 1,25	9,0	25,0	1	20	
332.0007	M 9 x 1,25	9,0	25,0	1	35	
332.0008	M10 x 1,50	11,0	30,0	1	50	
332.0009	M12 x 1,75	14,0	38,0	1	60	
332.0010	M14 x 2,00	14,0	38,0	1	73	
332.0011	M16 x 2,00	18,0	45,0	1	199	
332.0012	M18 x 2,50	18,0	45,0	1	220	
332.0013	M20 x 2,50	18,0	45,0	1	220	

HSS hexagon die M

- DIN 382
- Tolerance according to ISO - 6g
- Right hand cutting
- Ground execution
- Metric thread
- Surface without discolouration
- High performance steel

Ideally usably in high and low alloyed steel up to 800 N/mm² stability and NE metals.

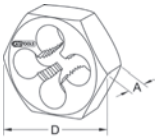


		A mm	D mm	Content		
330.0030	M3 x 0,5	5,0	19,0	1	10	
330.0040	M4 x 0,7	5,0	19,0	1	10	
330.0050	M5 x 0,8	7,0	19,0	1	10	
330.0060	M6 x 1,0	7,0	19,0	1	10	
330.0070	M7 x 1,0	9,0	22,0	1	20	
330.0080	M8 x 1,25	9,0	22,0	1	20	
330.0090	M9 x 1,25	9,0	22,0	1	20	
330.0100	M10 x 1,5	11,0	27,0	1	40	
330.0110	M11 x 1,5	11,0	27,0	1	40	
330.0120	M12 x 1,75	14,0	36,0	1	80	
330.0140	M14 x 2,0	14,0	36,0	1	80	
330.0160	M16 x 2,0	18,0	41,0	1	90	
330.0180	M18 x 2,5	18,0	41,0	1	90	
330.0200	M20 x 2,5	18,0	41,0	1	90	

HSS hexagon die MF

- DIN 382
- Tolerance according to ISO - 6g
- Right hand cutting
- Ground execution
- Metric fine thread
- Surface without discolouration
- High performance steel

Ideally usably in high and low alloyed steel up to 800 N/mm² stability and NE metals.

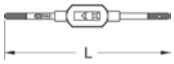


		A mm	D mm	Content		
333.0017	M3 x 0,35	5,0	19,0	1	20	
333.0018	M4 x 0,35	5,0	19,0	1	23	
333.0019	M4 x 0,5	5,0	19,0	1	27	
333.0020	M5 x 0,5	5,0	19,0	1	31	
333.0021	M5 x 0,75	7,0	19,0	1	32	
333.0022	M6 x 0,5	5,0	19,0	1	33	
333.0023	M7 x 0,75	9,0	22,0	1	35	
333.0024	M8 x 0,5	9,0	22,0	1	38	
333.0025	M8 x 0,75	9,0	22,0	1	41	
333.0026	M8 x 1,0	9,0	22,0	1	42	
333.0027	M9 x 0,75	9,0	22,0	1	45	
333.0028	M9 x 1,0	9,0	22,0	1	47	
333.0029	M10 x 0,75	11,0	27,0	1	50	
333.0031	M10 x 1,0	11,0	27,0	1	52	
333.0032	M10 x 1,25	11,0	27,0	1	55	
333.0033	M11 x 1,0	11,0	27,0	1	58	
333.0034	M11 x 1,25	11,0	27,0	1	60	
333.0035	M12 x 0,75	10,0	36,0	1	61	
333.0036	M12 x 1,0	10,0	36,0	1	63	
333.0037	M12 x 1,25	10,0	36,0	1	64	
333.0038	M12 x 1,5	10,0	36,0	1	66	
333.0039	M13 x 1,0	10,0	36,0	1	70	
333.0041	M13 x 1,5	10,0	36,0	1	72	
333.0042	M14 x 0,75	10,0	36,0	1	75	
333.0043	M14 x 1,00	10,0	36,0	1	78	
333.0044	M14 x 1,25	10,0	36,0	1	79	
333.0045	M14 x 1,5	10,0	36,0	1	82	
333.0046	M16 x 1,0	14,0	41,0	1	85	
333.0047	M16 x1,25	14,0	41,0	1	87	
333.0048	M16 x 1,5	14,0	41,0	1	90	
333.0049	M18 x 1,0	14,0	41,0	1	92	
333.0051	M18 x 1,25	14,0	41,0	1	94	
333.0052	M18 x 1,5	14,0	41,0	1	95	
333.0053	M18 x 2,0	14,0	41,0	1	97	
333.0054	M20 x 1,0	14,0	41,0	1	101	
333.0055	M20 x 1,25	14,0	41,0	1	103	
333.0056	M20 x 1,5	14,0	41,0	1	104	
333.0057	M20 x 2,0	14,0	41,0	1	107	
333.0058	M21 x 1,5	14,0	41,0	1	112	

TAP WRENCHES AND DIE HOLDERS

Adjustable tap wrench

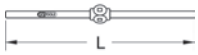
- DIN 1814
- With two jaw collet chuck
- With steel rail
- Hardened clamping jaws
- Ideal to the thread cutting edge
- To that separating from thin sheet metals
- For difficult to access areas
- Die cast zinc housing



		L mm	Content		
331.0011	M1 - M8	130,0	1	90	
331.0029	M1 - M10	180,0	1	96	
331.0021	M1 - M12	180,0	1	110	
331.0012	M3 - M10	180,0	1	120	
331.0013	M3 - M12	200,0	1	220	
331.0014	M4 - M12	280,0	1	280	
331.0015	M5 - M20	380,0	1	400	
331.0016	M11 - M27	500,0	1	850	
331.0017	M13 - M32	700,0	1	1230	
331.0018	M19 - M38	1000,0	1	640	
331.0019	M25 - M52	1200,0	1	720	

Ball tap holder

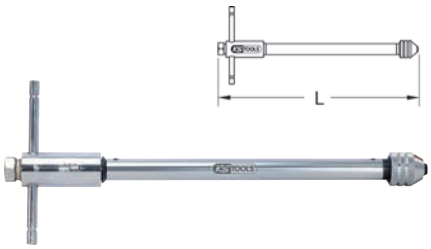
- For fast interchanging of the taps
- Square shaft according to DIN 10
- Die cast zinc housing



		L mm	Content		
331.0253	M1 - M4	200,0	1	82	
331.0254	M3,5 - M8	200,0	1	80	
331.0255	M4 - M10	240,0	1	175	
331.0256	M5 - M12	300,0	1	210	
331.0257	M9 - M16	340,0	1	350	
331.0258	M12 - M20	450,0	1	730	
331.0259	M18 - M27	650,0	1	950	

Die holder with exact gearing reversible ratchet head

- Clockwise and anticlockwise action with positive adjustment
- With two jaw collet chuck
- With movable drive handle
- Ideal to the thread cutting edge
- For difficult to access areas
- Mirror polished
- Special tool steel



		L mm	Content	g	
331.0660	M3 - M10	85,0	1	190	
331.0665	M5 - M12	100,0	1	320	
331.0670	M3 - M10	250,0	1	250	
331.0675	M5 - M12	300,0	1	440	

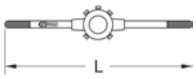
Thread drilling extension

- DIN 377
- Hardened and ground execution
- Square shaft according to DIN 10
- For the extension of the hand threading tap
- High performance steel

		■ mm	D mm	L mm	Content	g	
331.0241	M1 - M2,6	2,1	2,5	60,0	1	10	
331.0242	M3	2,7	3,7	80,0	1	15	
331.0243	M4	3,4	4,5	95,0	1	40	
331.0244	M5 - M8	4,9	6,5	110,0	1	44	
331.0245	M9 - M10	5,5	7,0	115,0	1	55	
331.0246	M12	7,0	9,0	125,0	1	120	
331.0247	M13 - M16	9,0	12,0	135,0	1	135	
331.0248	M18	11,0	14,0	150,0	1	150	
331.0249	M20	12,0	16,0	155,0	1	175	

Die holder

- DIN 225
- Reinforcement of the cutting edge through iron screws
- With steel rail
- Die cast zinc housing



		L mm	Content	g	
331.0001	M1- M2,6	160,0	1	60	
331.0002	M3 - M4	195,0	1	60	
331.0003	M4,5 - M6	195,0	1	70	
331.0004	M7 - M9	215,0	1	100	
331.0005	M10 - M11	260,0	1	220	
331.0006	M12 - M14	315,0	1	280	
331.0007	MF12 - MF14	315,0	1	260	
331.0008	M16 - M20	445,0	1	480	
331.0009	MF16 - MF20	445,0	1	460	
331.0022	MF22 - MF24	160,0	1	860	
331.0023	M22 - M24	160,0	1	840	
331.0024	MF27 - MF36	160,0	1	1230	
331.0026	M27 - M36	160,0	1	1190	

Threading die adaptor set

- Universal use for round cutting dies according to DIN E 22568 form B
- Slim design
- Ideal for difficult to access areas
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Includes extension and locking knob
- Special tool steel
- In durable plastic storage case

			kg	
331.0620	8 pcs	Threading die adaptor set	1,94	

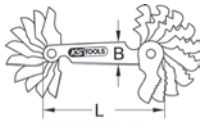
consists of:

		g	
331.0621	Die adaptor, M3-M6, 24mm	60	
331.0622	Die adaptor, M7-M8, 24mm	50	
331.0623	Die adaptor, M9-M10, 24mm	90	
331.0624	Die adaptor, M11-M14, 41mm	230	
331.0625	Die adaptor, M18-M20, 41mm	360	
331.0626	Die adaptor, M22-M24, 41mm	430	
331.0627	Toggle f.extension f.die adaptor	120	
331.0628	1/2" extension f.die adaptor	250	

THREAD GAUGES

Thread gauge

- For controlling and increasing the interior thread and outside thread
- Imperial sizes
- Cylindrical tapered
- Leaves fan shaped arrangement
- Leaves individually marked with size
- Out of hardened spring steel



	Tooth pitch	for thread size	B mm	L mm	g	
301.0090	22	4-4,5-5-6-7-8-9-10-11-12-13-14-16-18 20-22-24-32-40-48-56-64 speed	12,2	66,5	40	
301.0095	20	0,40-0,45-0,50-0,60-0,70-0,75-0,80-1,00-1,25-1,50-1,75-2,00-2,50-3,00-3,50-4,00-4,50-5,00-5,50-6,00mm	12,2	66,5	40	

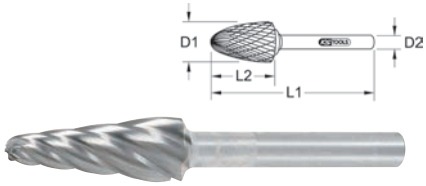
ROTARY BURRS

Round cone rotary burr form L for aluminium alloys, long

- Minimal material adhesion
- Long life time
- Big removal rates and high cutting performance
- For cutting speed up to max 1100 m/min (max. speed 16.000 - 30.000 r.p.m.)
- Smooth running

To that filleted, edges break, plasters, welded seams and area preparation

Suitable for Aluminum alloys, hard Aluminum alloys (high SI portion), brass, copper, zinc, bronze, titanium, fiber-reinforced plastics GFK/CFK, thermoplastics, hard rubber



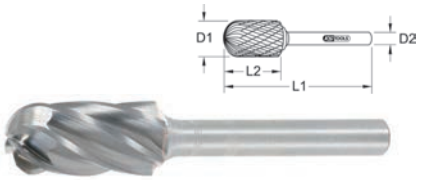
	D1 mm	D2 mm	L1 mm	L2 mm	Content	g	
515.3291	12,0	6,0	65,0	25,0	1	35	

Round milling rotary burr form C for aluminium alloys

- Minimal material adhesion
- Long life time
- Big removal rates and high cutting performance
- For cutting speed up to max 1100 m/min (max. speed 16.000 - 30.000 r.p.m.)
- Smooth running

To that filleted, edges break, plasters, welded seams and area preparation

Suitable for Aluminum alloys, hard Aluminum alloys (high SI portion), brass, copper, zinc, bronze, titanium, fiber-reinforced plastics GFK/CFK, thermoplastics, hard rubber



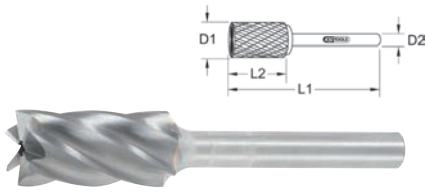
	D1 mm	D2 mm	L1 mm	L2 mm	Content	g	
515.3292	12,0	6,0	65,0	25,0	1	45	

Cylinder rotary burr form A with spur gearing for aluminium alloys

- Minimal material adhesion
- Long life time
- Big removal rates and high cutting performance
- For cutting speed up to max 1100 m/min (max. speed 16.000 - 30.000 r.p.m.)
- Smooth running

To that filleted, edges break, plasters, welded seams and area preparation

Suitable for Aluminum alloys, hard Aluminum alloys (high SI portion), brass, copper, zinc, bronze, titanium, fiber-reinforced plastics GFK/CFK, thermoplastics, hard rubber



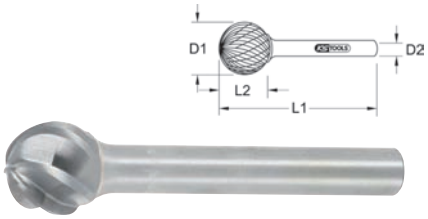
	D1 mm	D2 mm	L1 mm	L2 mm	Content	g	
515.3293	12,0	6,0	65,0	25,0	1	46	

Round milling rotary burr form D for aluminium alloys

- Minimal material adhesion
- Long life time
- Big removal rates and high cutting performance
- For cutting speed up to max 1100 m/min (max. speed 16.000 - 30.000 r.p.m.)
- Smooth running

To that filleted, edges break, plasters, welded seams and area preparation

Suitable for Aluminum alloys, hard Aluminum alloys (high SI portion), brass, copper, zinc, bronze, titanium, fiber-reinforced plastics GFK/CFK, thermoplastics, hard rubber



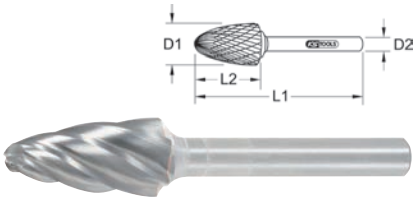
	D1 mm	D2 mm	L1 mm	L2 mm	Content	g
515.3294	12,0	6,0	50,0	10,0	1	27

Round cone rotary burr form L for aluminium alloys, short

- Minimal material adhesion
- Long life time
- Big removal rates and high cutting performance
- For cutting speed up to max 1100 m/min (max. speed 16.000 - 30.000 r.p.m.)
- Smooth running

To that filleted, edges break, plasters, welded seams and area preparation

Suitable for Aluminum alloys, hard Aluminum alloys (high SI portion), brass, copper, zinc, bronze, titanium, fiber-reinforced plastics GFK/CFK, thermoplastics, hard rubber



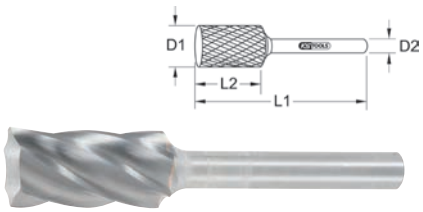
	D1 mm	D2 mm	L1 mm	L2 mm	Content	g
515.3295	12,0	6,0	65,0	25,0	1	37

Cylinder rotary burr form A without spur gearing

- Minimal material adhesion
- Long life time
- Big removal rates and high cutting performance
- For cutting speed up to max 1100 m/min (max. speed 16.000 - 30.000 r.p.m.)
- Smooth running

To that filleted, edges break, plasters, welded seams and area preparation

Suitable for Aluminum alloys, hard Aluminum alloys (high SI portion), brass, copper, zinc, bronze, titanium, fiber-reinforced plastics GFK/CFK, thermoplastics, hard rubber



	D1 mm	D2 mm	L1 mm	L2 mm	Content	g
515.3296	12,0	6,0	65,0	25,0	1	47

Milling burr set for aluminum alloys in plastic case

- Minimal material adhesion
- Long life time
- Big removal rates and high cutting performance
- For cutting speed up to max 1100 m/min (max. speed 16.000 - 30.000 r.p.m.)
- Smooth running

To that filleted, edges break, plasters, welded seams and area preparation

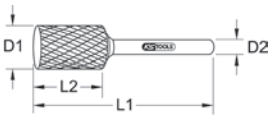
Suitable for Aluminum alloys, hard Aluminum alloys (high SI portion), brass, copper, zinc, bronze, titanium, fiber-reinforced plastics GFK/CFK, thermoplastics, hard rubber

			g
515.3290	3 pcs	Milling burr set for aluminum alloys in plastic case	101
1 x		12 mm	
1 x		12 mm	
1 x		12 mm	

Hard metal cylinder rotary burr form A without spur gearing

- Highest cutting edge stability
- Improved cutting performance due to staggered tooth system
- Without spur gearing
- Surface without discolouration
- High performances steel with hard metal

To that filleted, edges break, plasters, welded seams and area preparation.
Usably in high alloyed, steel rustproof, acid and heat resistant, cast and plastics.



	D1 mm	D2 mm	L1 mm	L2 mm	Content	g
515.3221	3,0	3,0	38,5	13,0	1	3
515.3222	6,0	6,0	61,0	16,0	1	16
515.3223	8,0	6,0	65,0	20,0	1	21
515.3224	10,0	6,0	65,0	20,0	1	30
515.3225	12,0	6,0	70,0	25,0	1	57
515.3226	16,0	6,0	70,0	25,0	1	81

Hard metal cylinder rotary burr form A with spur gearing

- Highest cutting edge stability
- Improved cutting performance due to staggered tooth system
- With face gearing
- Suitable for a wide range of applications
- Surface without discolouration
- High performances steel with hard metal

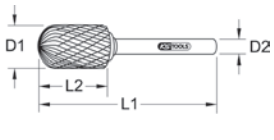
To that filleted, edges break, plasters, welded seams and area preparation.
Usably in high alloyed, steel rustproof, acid and heat resistant, cast and plastics.

	D1 mm	D2 mm	L1 mm	L2 mm	Content	g
515.3231	3,0	3,0	38,5	13,0	1	3
515.3232	6,0	6,0	61,0	16,0	1	16
515.3233	8,0	6,0	65,0	20,0	1	21
515.3234	10,0	6,0	65,0	20,0	1	30
515.3235	12,0	6,0	70,0	25,0	1	57
515.3236	16,0	6,0	70,0	25,0	1	81

Hard metal round milling rotary burr form C

- Highest cutting edge stability
- Improved cutting performance due to staggered tooth system
- Suitable for a wide range of applications
- Surface without discolouration
- High performances steel with hard metal

To that filleted, edges break, plasters, welded seams and area preparation.
Usably in high alloyed, steel rustproof, acid and heat resistant, cast and plastics.

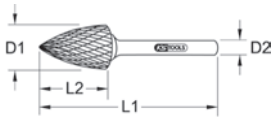


	D1 mm	D2 mm	L1 mm	L2 mm	Content	g
515.3241	3,0	3,0	38,5	13,0	1	3
515.3242	6,0	6,0	61,0	16,0	1	16
515.3243	8,0	6,0	65,0	20,0	1	22
515.3244	10,0	6,0	70,0	20,0	1	28
515.3245	12,0	6,0	70,0	25,0	1	40
515.3246	16,0	6,0	70,0	25,0	1	60

Hard metal pointed arch rotary burr form G

- Highest cutting edge stability
- Improved cutting performance due to staggered tooth system
- Suitable for a wide range of applications
- Surface without discolouration
- High performances steel with hard metal

To that filleted, edges break, plasters, welded seams and area preparation.
Usably in high alloyed, steel rustproof, acid and heat resistant, cast and plastics.

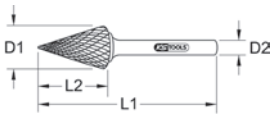


	D1 mm	D2 mm	L1 mm	L2 mm	Content	
515.3251	3,0	3,0	38,5	13,0	1	3
515.3252	6,0	6,0	63,0	18,0	1	13
515.3253	8,0	6,0	65,0	20,0	1	19
515.3254	10,0	6,0	65,0	20,0	1	22
515.3255	12,0	6,0	70,0	25,0	1	33
515.3256	16,0	6,0	70,0	25,0	1	47

Hard metal tip cone milling burr form M

- Highest cutting edge stability
- Improved cutting performance due to staggered tooth system
- Suitable for a wide range of applications
- Surface without discolouration
- High performances steel with hard metal

To that filleted, edges break, plasters, welded seams and area preparation.
Usably in high alloyed, steel rustproof, acid and heat resistant, cast and plastics.



	D1 mm	D2 mm	L1 mm	L2 mm	Content	
515.3271	3,0	3,0	38,5	11,0	1	3
515.3272	6,0	6,0	63,0	18,0	1	12
515.3273	8,0	6,0	65,0	20,0	1	15
515.3274	10,0	6,0	65,0	20,0	1	18
515.3275	12,0	6,0	70,0	25,0	1	26
515.3276	16,0	6,0	70,0	25,0	1	37

Hard metal milling burr set in steel case

- High strength hinge
- 6 mm shank diameter
- Highest cutting edge stability
- Improved cutting performance due to staggered tooth system
- Surface without discolouration
- High performances steel with hard metal

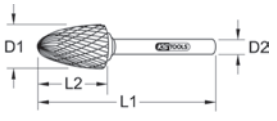
To that filleted, edges break, plasters, welded seams and area preparation.
Usably in high alloyed, steel rustproof, acid and heat resistant, cast and plastics.

515.3203	3 pcs	Hard metal milling burr set in steel case	590
1 x		10 mm	
1 x		10 mm	
1 x		10 mm	

Hard metal round arch rotary burr form F

- Highest cutting edge stability
- Improved cutting performance due to staggered tooth system
- Suitable for a wide range of applications
- Surface without discolouration
- High performances steel with hard metal

To that filleted, edges break, plasters, welded seams and area preparation.
Usably in high alloyed, steel rustproof, acid and heat resistant, cast and plastics.

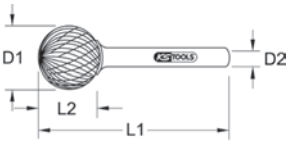


	D1 mm	D2 mm	L1 mm	L2 mm	Content	
515.3261	3,0	3,0	38,5	13,0	1	3
515.3262	6,0	6,0	61,0	16,0	1	15
515.3263	8,0	6,0	65,0	20,0	1	20
515.3264	10,0	6,0	65,0	20,0	1	24
515.3265	12,0	6,0	70,0	25,0	1	32
515.3266	16,0	6,0	70,0	25,0	1	52

Hard metal ball milling burr form D

- Highest cutting edge stability
- Improved cutting performance due to staggered tooth system
- Suitable for a wide range of applications
- Surface without discolouration
- High performances steel with hard metal

To that filleted, edges break, plasters, welded seams and area preparation.
Usably in high alloyed, steel rustproof, acid and heat resistant, cast and plastics.



	D1 mm	D2 mm	L1 mm	L2 mm	Content	
515.3281	3,0	3,0	38,5	2,7	1	3
515.3282	6,0	6,0	51,0	5,0	1	11
515.3283	8,0	6,0	53,0	7,0	1	12
515.3284	10,0	6,0	54,0	9,0	1	16
515.3285	12,0	6,0	56,0	10,0	1	24
515.3286	16,0	6,0	60,0	14,0	1	59

Hard metal milling burr set in steel case

- High strength hinge
- 3 mm shank diameter
- Highest cutting edge stability
- Improved cutting performance due to staggered tooth system
- Surface without discolouration
- High performances steel with hard metal

To that filleted, edges break, plasters, welded seams and area preparation.
Usably in high alloyed, steel rustproof, acid and heat resistant, cast and plastics.

515.3207	7 pcs	Hard metal milling burr set in steel case	590
1 x		3 mm	
1 x		3 mm	
1 x		3 mm	
1 x		3 mm	
1 x		3 mm	
1 x		3 mm	
1 x		3 mm	

Hard metal milling burr set in steel case

- High strength hinge
- 6 mm shank diameter
- Highest cutting edge stability
- Improved cutting performance due to staggered tooth system
- Surface without discolouration
- High performances steel with hard metal

To that filleted, edges break, plasters, welded seams and area preparation.
Usably in high alloyed, steel rustproof, acid and heat resistant, cast and plastics.

515.3210	10 pcs	Hard metal milling burr set in steel case	590

2 x	8 - 10 mm
2 x	8 - 10 mm
2 x	8 - 10 mm
1 x	10 mm
1 x	10 mm
1 x	10 mm
1 x	8 mm

Hard metal milling burr set in plastic case

- Stackable for storage
- With integral clasp
- High strength hinge
- 6 mm shank diameter
- Highest cutting edge stability
- Improved cutting performance due to staggered tooth system
- Surface without discolouration
- High performances steel with hard metal

To that filleted, edges break, plasters, welded seams and area preparation.
Usably in high alloyed, steel rustproof, acid and heat resistant, cast and plastics.

515.3220	10 pcs	Hard metal milling burr set in plastic case	590

2 x	8 - 10 mm
2 x	8 - 10 mm
2 x	8 - 10 mm
1 x	10 mm
1 x	10 mm
1 x	10 mm
1 x	8 mm

SCREW HOLE PUNCHES

Screw hole punch

- 3 point gate
- High strength bolt
- Positive cutting edge geometry
- To that separating from thin sheet metals
- For difficult to access areas
- Burnished surface
- Special tool steel

Ideally usably in V2A sheet to 1.5 mm, aluminum, copper, steel as well as stainless steel and plastics. The sheet metal thicknesses can be exceeded at the expense of screw. Especially suited for burr free, clean, effortless and fast punching.

	D mm	Standard	Replacement tension screw	Tension srew	Tapping hole	Content	
129.0012	12,5	ISO 12	129.0001	MF 8 x 1 x 55,0	9	1	72
129.0013	12,7	PG7	129.0001	MF 8 x 1 x 55,0	9	1	73
129.0015	15,2	PG9	129.0001	MF 8 x 1 x 55,0	9	1	94
129.0016	16,0	ISO 16	129.0001	MF 8 x 1 x 55,0	9	1	96
129.0018	18,6	PG11	129.0001	MF 8 x 1 x 55,0	9	1	112
129.0020	20,4	PG13	129.0002	MF 12 X 1,5 X 55	13	1	160
129.0021	20,5	ISO 20	129.0002	MF 12 X 1,5 X 55	13	1	161
129.0022	22,5	PG16	129.0002	MF 12 X 1,5 X 65	13	1	164
129.0025	25,4	ISO 12	129.0002	MF 12 X 1,5 X 65	13	1	185
129.0026	25,5	ISO 25	129.0002	MF 12 X 1,5 X 65	13	1	186
129.0028	28,3	PG21	129.0002	MF 12 X 1,5 X 65	13	1	212
129.0030	30,5	ISO 12	129.0002	MF 12 X 1,5 X 65	13	1	250
129.0032	32,5	ISO 32	129.0002	MF 12 X 1,5 X 65	13	1	252
129.0035	35,0	ISO 12	129.0002	MF 12 X 1,5 X 65	13	1	378
129.0037	37,0	PG29	129.0002	MF 12 X 1,5 X 65	13	1	380
129.0038	38,0	ISO 12	129.0002	MF 12 X 1,5 X 65	13	1	394
129.0040	40,5	ISO 40	129.0002	MF 12 X 1,5 X 65	13	1	398
129.0047	47,0	PG36	129.0003	MF 16 x 1,5 x 75,0	18	1	834
129.0050	50,5	ISO 50	129.0003	MF 16 x 1,5 x 75,0	18	1	768
129.0054	54,0	PG42	129.0003	MF 16 x 1,5 x 75,0	18	1	964

Screw hole punch with ball bearing

- Ball bearing
- 3 point gate
- High strength bolt
- Positive cutting edge geometry
- To that separating from thin sheet metals
- For difficult to access areas
- Burnished surface
- Special tool steel

Ideal for use in V2A steel plates up to 1,5 mm, aluminum, copper, steel and iron to 2,0 mm and stainless steel and plastic sinks. The sheet metal thicknesses can be exceeded at the expense of screw. Especially suited for burr free, clean, effortless and fast punching.

	D mm	Standard	Replacement ball bearing screw #	Ball bearing screw	Tapping hole	Content	
129.0312	12,5	ISO 12	129.0301	MF 8 x 1 x 55,0	9	1	74
129.0313	12,7	PG7	129.0301	MF 8 x 1 x 55,0	9	1	75
129.0315	15,2	PG9	129.0301	MF 8 x 1 x 55,0	9	1	96
129.0316	16,0	ISO 16	129.0301	MF 8 x 1 x 55,0	9	1	98
129.0318	18,6	PG11	129.0301	MF 8 x 1 x 55,0	9	1	114
129.0320	20,4	PG13	129.0302	MF 12 x 1,5 x 55,0	13	1	174
129.0321	20,5	ISO 20	129.0302	MF 12 x 1,5 x 55,0	13	1	175
129.0322	22,5	PG16	129.0302	MF 12 x 1,5 x 65,0	13	1	178
129.0325	25,4		129.0302	MF 12 x 1,5 x 65,0	13	1	200
129.0326	25,5	ISO 25	129.0302	MF 12 x 1,5 x 65,0	13	1	202
129.0328	28,3	PG21	129.0302	MF 12 x 1,5 x 65,0	13	1	226
129.0330	30,5		129.0302	MF 12 x 1,5 x 65,0	13	1	264
129.0332	32,5	ISO 32	129.0302	MF 12 x 1,5 x 65,0	13	1	266
129.0335	35,0		129.0302	MF 12 x 1,5 x 65,0	13	1	392
129.0337	37,0	PG29	129.0302	MF 12 x 1,5 x 65,0	13	1	408
129.0338	38,0		129.0302	MF 12 x 1,5 x 65,0	13	1	409
129.0340	40,5	ISO 40	129.0302	MF 12 x 1,5 x 65,0	13	1	412
129.0347	47,0	PG36	129.0303	MF 16 x 1,5 x 75,0	18	1	890
129.0350	50,5	ISO 50	129.0303	MF 16 x 1,5 x 75,0	18	1	780
129.0354	54,0	PG42	129.0303	MF 16 x 1,5 x 75,0	18	1	1020
129.0360	60,0	PG48	129.0304	MF 20 x 1,5 x 80,0	22	1	1084
129.0363	63,5	ISO 63	129.0304	MF 20 x 1,5 x 80,0	22	1	1162

HOLESAWS

HSS arbor accessories

- For HSS and HSS Co Bi metal hole saws
- Includes pilot drill
- High performance steel

	Ø mm	Shank mm	Profile	
129.5501	14,0 - 30,0	6,4		60
129.5502	14,0 - 30,0	9,5		80
129.5503	14,0 - 30,0	11,0		80
129.5505	32,0 - 152,0	11,0		260
129.5504	32,0 - 210,0	16,0		250

Replacement pilot drills for HSS and HSS Co Bi metal hole saws

- For HSS and HSS Co Bi metal hole saws
- High performance steel

	Ø mm	L mm	Content	
129.5525	6,3	105,0	1	20
129.5526	6,3	75,0	1	10

Extension for HSS and HSS Co Bi metal hole saws

- For HSS and HSS Co Bi metal hole saws
- High performance steel

	L mm	Content	
129.5520	300,0	1	350

HSS Bi metal holesaws

- Variable tooth pitch
- Right hand cutting
- High concentricity accuracy
- Good chip removal
- HSS Bi metal
- Cutting depth up to max. 38 mm

Suitable for low alloyed steel up to 700 N/mm² stability, plaster, light construction-, fibre and chipboard as well as wood processing, non ferrous metals and light alloys.

	D mm	Cutting depth mm	Passage Ø	Imperial tube Ø inch	Content	g
129.5014	14,0	38,0		9/16"	1	30
129.5016	16,0	38,0	PG9	5/8"	1	30
129.5017	17,0	38,0		11/16"	1	30
129.5019	19,0	38,0	PG11	3/4"	1	40
129.5020	20,0	38,0		25/32"	1	40
129.5021	21,0	38,0	PG13,5	13/16"	1	50
129.5022	22,0	38,0		7/8"	1	50
129.5024	24,0	38,0	PG16	15/16"	1	60
129.5025	25,0	38,0		1"	1	60
129.5027	27,0	36,0		1.1/16"	1	70
129.5029	29,0	36,0	PG21	1.1/8"	1	70
129.5030	30,0	36,0		1.3/16"	1	80
129.5032	32,0	36,0		1.1/4"	1	80
129.5033	33,0	36,0		1.5/16"	1	80
129.5035	35,0	36,0		1.3/8"	1	90
129.5037	37,0	36,0	PG29	1.7/16"	1	120
129.5038	38,0	36,0		1.1/2"	1	120
129.5040	40,0	36,0		1.9/16"	1	120
129.5041	41,0	36,0		1.5/8"	1	120
129.5043	43,0	36,0		1.11/16"	1	120
129.5044	44,0	36,0		1.3/4"	1	120
129.5045	45,0	36,0		1.25/32"	1	135
129.5046	46,0	36,0		1.13/16"	1	140
129.5048	48,0	36,0	PG36	1.7/8"	1	150
129.5050	50,0	32,0		1.31/32"	1	150
129.5051	51,0	32,0		2"	1	150
129.5052	52,0	32,0		2.1/16"	1	150
129.5054	54,0	32,0	PG42	2.1/8"	1	150
129.5055	55,0	32,0	PG9	2.3/16"	1	150
129.5057	57,0	32,0		2.1/4"	1	160
129.5059	59,0	32,0		2.5/16"	1	160
129.5060	60,0	32,0	PG48	2.3/8"	1	170
129.5064	64,0	32,0		2.1/2"	1	190
129.5065	65,0	32,0		2.9/16"	1	200
129.5067	67,0	32,0		2.5/8"	1	200
129.5068	68,0	32,0		2.22/32"	1	200
129.5070	70,0	32,0		2.3/4"	1	210
129.5073	73,0	32,0		2.7/8"	1	250
129.5075	75,0	32,0		2.31/32"	1	250
129.5076	76,0	32,0		3"	1	250
129.5079	79,0	32,0		3.1/8"	1	250
129.5083	83,0	32,0		3.1/4"	1	260
129.5086	86,0	32,0		3.3/8"	1	260
129.5089	89,0	32,0		3.1/2"	1	290
129.5092	92,0	32,0		3.5/8"	1	320
129.5095	95,0	32,0		3.3/4"	1	370
129.5098	98,0	32,0		3.7/8"	1	390
129.5100	100,0	32,0		3.31/32"	1	410
129.5102	102,0	32,0		4"	1	420
129.5105	105,0	32,0		4.1/8"	1	450
129.5108	108,0	32,0		4.1/4"	1	450
129.5111	111,0	32,0		4.3/8"	1	460
129.5114	114,0	32,0		4.1/2"	1	480
129.5121	121,0	32,0		4.3/4"	1	500
129.5127	127,0	32,0		5"	1	650
129.5140	140,0	32,0		5.1/2"	1	650
129.5146	146,0	32,0		5.3/4"	1	650
129.5152	152,0	32,0		6"	1	700

Electrians hole saw set in plastic box

- Includes hole saw arbor
- With integral clasp
- High strength hinge
- Variable tooth pitch
- Right hand cutting
- High concentricity accuracy
- Good chip removal
- HSS Bi metal

Suitable for high and low alloyed steel up to 700 N/mm² stability, plaster, light construction, MDF and chipboard as well as wood processing, non ferrous metal and light alloy.
For use within electrical trades.

			kg
129.5570	8 pcs	Electrians hole saw set in plastic box	1,35
6 x		22 - 29 - 35 - 44 - 51 - 68 mm	
1 x		14 - 30 mm	
1 x		32 - 152 mm	

Plumbing hole saw set in plastic box

- Includes hole saw arbor
- With integral clasp
- High strength hinge
- Variable tooth pitch
- Right hand cutting
- High concentricity accuracy
- Good chip removal
- HSS Bi metal

Suitable for high and low alloyed steel up to 700 N/mm² stability, plaster, light construction, MDF and chipboard as well as wood processing, non ferrous metal and light alloy.
For use within plumbing trades.

			kg
129.5575	9 pcs	Plumbing hole saw set in plastic box	1,38
7 x		19 - 22 - 29 - 38 - 44 - 51 - 57 mm	
1 x		14 - 30 mm	
1 x		32 - 152 mm	

Universal hole saw set in plastic box

- Inclusive hole saw arbor and extension
- With integral clasp
- High strength hinge
- Variable tooth pitch
- Right hand cutting
- High concentricity accuracy
- Good chip removal
- HSS Bi metal

Suitable for high and low alloyed steel up to 700 N/mm² stability, plaster, light construction, MDF and chipboard as well as wood processing, non ferrous metal and light alloy.
For the use in the areas electric, sanitary, plumbing building and heating.

			kg
129.5580	15 pcs	Universal hole saw set in plastic box	3,49
12 x		19 - 22 - 25 - 29 - 32 - 35 - 38 - 44 51 - 57 - 64 - 68 mm	
1 x		14 - 30 mm	
1 x		32 - 152 mm	
1 x		300 mm	

HANDSAWS

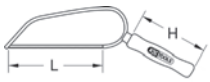
Wire saw

- Ideally suited for cutting ABS, PVC, CPVC pipes and wood
- For hard-to-reach places and corners
- With metal rings at both ends for a firm grip
- Easy to stow
- Very flexible
- Braided wire

	Length mm	g
123.0005	760,0	35

Small handsaw

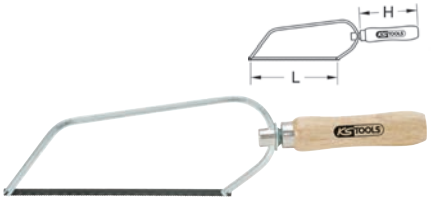
- With 32 teeth
- For metal
- With wooden handle
- Includes saw blade



	L mm	H mm		g
997.1215	150.0	130.0	997.1214/16	100

Small handsaw with adjustable wooden handle

- With 32 teeth
- For metal
- With adjustable wooden handle
- Includes saw blade



	L mm	H mm		
997.1217	150.0	90.0	997.1214/16	100

Sawblade

- With 32 teeth

Suitable for: all metals

	L mm	Content	
997.1214	150,0	12	36

Sawblade

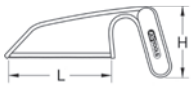
- With 25 teeth

Suitable for: wood, aluminium, plastics and plaster

	L mm	Content	
997.1216	150,0	12	40

Small handsaw frame

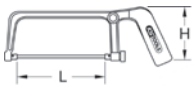
- With 24 teeth
- With red plastic handle cover
- Includes universal saw blade
- For wood, metal, aluminum, plastic and plaster
- Surface black powder coating



	L mm	H mm		
997.1210	150.0	90.0	907.2131	130

Small hand saw frame

- With 24 teeth
- With black plastic handle cover
- Includes universal saw blade
- For plastic, metal and aluminium



	L mm	H mm		
907.2130	150.0	90.0	907.2131	140

Universal sawblade for small handsaw frame

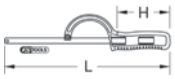
- With 24 teeth

For: plastic, metal and aluminium

	L mm	Content	
907.2131	150,0	1	10

Metal handsaw frame

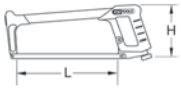
- Suitable for narrow spaces
- Mode of operation such as key hole sawing
- Two component handle
- Includes universal saw blade
- For plastic, metal and aluminium



	L mm	H mm		
907.2125	300.0	160.0	129.6620-24	110

Hack saw frame

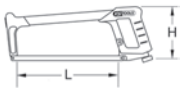
- Easy usage
- With hand protection and thumb support
- Includes magazine for saw blades
- Includes jigsaw function
- Saw blade can be set at 45° or 90°
- Includes HSS Bi metal sawblade



		H mm		
907.2100	45 or 90	130.0	129.6620-24	270

Hack saw frame

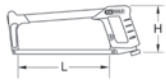
- Easy usage
- With hand protection and thumb support
- Includes magazine for saw blades
- Includes jigsaw function
- Saw blade can be set at 45° or 90°
- Two component handle
- Includes HSS Bi metal sawblade



	L mm	H mm		
907.2102	300.0	130.0	129.6620-24	270

Quick release hacksaw frame

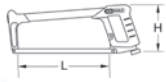
- With fast blade clamping device
- Easy usage
- With hand protection and thumb support
- Includes magazine for saw blades
- Includes jigsaw function
- Saw blade can be set at 45° or 90°
- With ergonomic handle
- Includes HSS Bi metal sawblade



	L mm	H mm		
907.2110	300.0	135.0	129.6620-24	750

Quick release hacksaw frame

- With fast blade clamping device
- Easy usage
- With hand protection and thumb support
- Saw blade can be set at 45° or 90°
- Two component handle
- Includes HSS Bi metal sawblade



	L mm	H mm		
907.2112	300.0	130.0	129.6620-24	270

Hack saw frame

- With hand protection
- Includes jigsaw function
- With ergonomic handle
- Includes saw blade

	L mm	H mm		
907.2115	300.0	130.0	129.6620-24	270

Hack saw frame set

- Including safety universal blade
- With hand protection
- Includes jigsaw function
- With ergonomic handle
- Includes saw blade

907.2103	3 pcs	Hack saw frame set	1,03

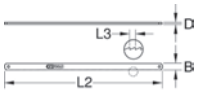
PVC handsaw

- With hand protection
- With ergonomic handle
- Includes saw blade

	L mm	H mm	
907.1105	300.0	130.0	200
907.1106	450.0	190.0	360

HSS Bi Co 8 metal high performance saw blades

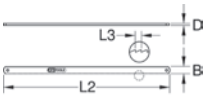
- Variable tooth pitch
- Very flexible
- For cutting metal and steel
- Cobalt alloyed HSS Bi metal



	No. teeth	B mm	D mm	L2 mm	L3 mm	Content	
129.6620V	288	13,0	0,6	300,0	1,0-1,3	1	20

HSS Bi Co 8 metal high performance saw blades

- Very flexible
- For cutting metal and steel
- Cobalt alloyed HSS Bi metal



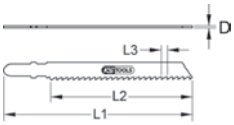
	No. teeth	B mm	D mm	L2 mm	L3 mm	Content	
129.6620-18	216	13,0	0,6	300,0	1,4	1	20
129.6620-24	288	13,0	0,6	300,0	1,0	1	20
129.6620-32	384	13,0	0,6	300,0	0,8	1	20

JIGSAW BLADES

Jigsaw blades

- Cleaner, fast and fine cut
- Chrome vanadium

In the style of: AEG ® 274351, Bosch ® T101D, Metabo ® 23635, Lenox ® CF456S, Milwaukee ® 48-42-5500
Suitable for: Bosch ®, AEG ® (Atlas Copco), Metabo ®, Lenox ®, Milwaukee ®, Elu ®, Hitachi ®, Holz-Her ®, Mafell ®, Makita ®, Flex ®, Sparky ®



Technical data:

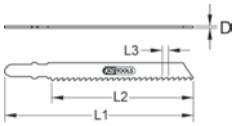
Suitable for: planned, hard and plywood 5 to 30 mm
laminated wood composition board
plastic

	No. teeth	L1 mm	L2 mm	L3 mm	D mm	Content	
129.3101	30	100,0	75,0	2,5	1,5	5	40

Jigsaw blades

- Cleaner, fast and fine cut
- Chrome vanadium

In the style of: AEG ® 274351, Bosch ® T101D, Metabo ® 23635, Lenox ® CF456S, Milwaukee ® 48-42-5500
Suitable for: Bosch ®, AEG ® (Atlas Copco), Metabo ®, Lenox ®, Milwaukee ®, Elu ®, Hitachi ®, Holz-Her ®, Mafell ®, Makita ®, Flex ®, Sparky ®



Technical data:

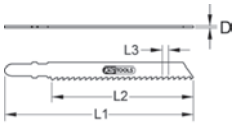
Suitable for: planned, hard and plywood 8 to 60 mm
plastic
wooden types

	No. teeth	L1 mm	L2 mm	L3 mm	D mm	Content	
129.3103	18	100,0	75,0	4,0	1,5	5	30

Jigsaw blades

- Very clean and fast cut
- Chrome vanadium

In the style of: Bosch ® T301D, Metabo ® 23654
Suitable for: Bosch ®, AEG ® (Atlas Copco), Metabo ®, Lenox ®, Milwaukee ®, Elu ®, Hitachi ®, Holz-Her ®, Mafell ®, Makita ®, Flex ®, Sparky ®



Technical data:

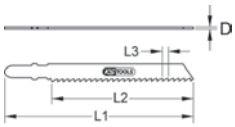
Suitable for: soft and hardwood 8 to 75 mm
wood fibre board 8 to 75 mm
plastic

	No. teeth	L1 mm	L2 mm	L3 mm	D mm	Content	
129.31035	21	115,0	95,0	4,0	1,5	5	30

Jig saw blades

- Clean and fast cut
- Extra strong blade
- Ideal for angled and parallel cutting

In the style of: Bosch ® T101DP, Metabo ® 23655
Suitable for: Bosch ®, AEG ® (Atlas Copco), Metabo ®, Lenox ®, Milwaukee ®, Elu ®, Hitachi ®, Holz-Her ®, Mafell ®, Makita ®, Flex ®, Sparky ®



Technical data:

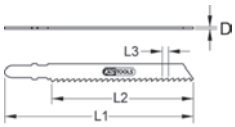
Suitable for: soft, hard and plywood
wooden composites
wood fibre board 6 to 60 mm

	No. teeth	L1 mm	L2 mm	L3 mm	D mm	Content	
129.3103S	18	100,0	75,0	4,0	1,7	5	30

Jigsaw blades

- Faster, straight and clean cut
- Chrome vanadium

In the style of: AEG® 213116, Bosch® T144D, Metabo® 23633, Milwaukee® 48-42-5421
Suitable for: Bosch®, AEG® (Atlas Copco), Metabo®, Lenox®, Milwaukee®, Elu®, Hitachi®, Holz-Her®, Mafell®, Makita®, Flex®, Sparky®



Technical data:

Suitable for: planned, hard and plywood 8 to 60 mm
MDF

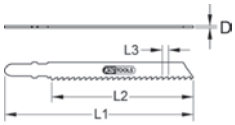
	No. teeth	L1 mm	L2 mm	L3 mm	D mm	Content	
129.3104	18	100,0	75,0	4,0	1,3	5	40

Jigsaw blades curved cut

- Fast and clean cut
- Ideal for curved cutting
- Chrome vanadium

In the style of: Bosch ® T244D, Metabo ® 23649, Milwaukee ® 48-42-5512

Suitable for: Bosch ®, AEG ® (Atlas Copco), Metabo ®, Lenox ®, Milwaukee ®, Elu ®, Hitachi ®, Holz-Her ®, Mafell ®, Makita ®, Flex ®, Sparky ®



Technical data:

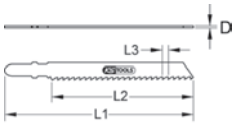
Suitable for: soft and hardwood 8 to 60 mm
MDF

	No. teeth	L1 mm	L2 mm	L3 mm	D mm	Content	
129.3105	18	100,0	75,0	4,0	1,3	5	30

Jigsaw blade

- Fast coarse cut
- Chrome vanadium

In the style of: AEG 254071, Bosch T111C, Metabo 23632, Milwaukee 48-42-5200
Suitable for: Bosch ®, AEG ® (Atlas Copco), Metabo ®, Lenox ®, Milwaukee ®, Elu ®, Hitachi ®, Holz-Her ®, Mafell ®, Makita ®, Flex ®, Sparky ®



Technical data:

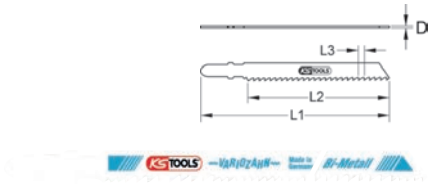
Suitable for: soft and hardwood 5 to 60 mm
plastic

	No. teeth	L1 mm	L2 mm	L3 mm	D mm	Content	
129.3106	24	100,0	75,0	3,0	1,3	5	30

Bi metal jigsaw blades

- Variable tooth pitch
- Straight cut
- Extra long blade
- For different strength materials

Suitable for: Bosch ®, AEG ® (Atlas Copco), Metabo ®, Lenox ®, Milwaukee ®, Elu ®, Hitachi ®, Holz-Her ®, Mafell ®, Makita ®, Flex ®, Sparky ®



Technical data:

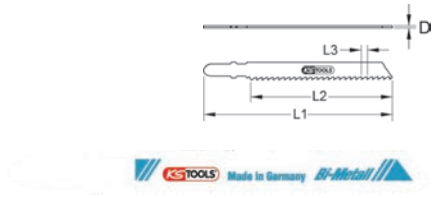
Suitable for: soft and hardwood 3 to 95 mm
wood with nails and kitchen worktops
steel and stainless steel

	No. teeth	L1 mm	L2 mm	L3 mm	D mm	Content	
129.3150F	63	132,0	110,0	1,8 - 2,5	1,3	5	50

Bi metal jigsaw blades

- For thin material
- Straight cut
- Flexible and shatter proof
- Long service life

In the style of: Bosch® T118AF, Metabo® 23971, Lenox® 324S, Milwaukee® 48-42-5161
Suitable for: Bosch®, AEG® (Atlas Copco), Metabo®, Lenox®, Milwaukee®, Elu®, Hitachi®, Holz-Her®, Mafell®, Makita®, Flex®, Sparky®



Technical data:

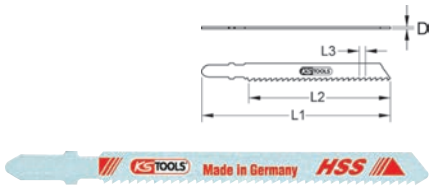
Suitable for: mild steel and aluminum
non ferrous metal and steel 1,5 to 3 mm
stainless steel

	No. teeth	L1 mm	L2 mm	L3 mm	D mm	Content	
129.3111F	42	75,0	50,0	1,2	1,0	5	40

Jigsaw blades

- Clean cut
- Ideal for perspex
- High performance steel

In the style of: AEG® 274651, Bosch® T101A, Metabo® 23640
Suitable for: Bosch®, AEG® (Atlas Copco), Metabo®, Lenox®, Milwaukee®, Elu®, Hitachi®, Holz-Her®, Mafell®, Makita®, Flex®, Sparky®



Technical data:

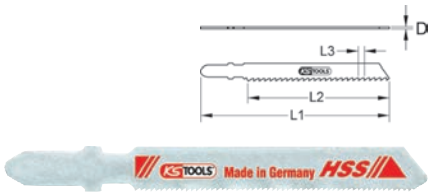
Suitable for: non ferrous metal and aluminium 2 to 20 mm
stainless steel 2 to 10 mm

	No. teeth	L1 mm	L2 mm	L3 mm	D mm	Content	
129.3116	36	100,0	75,0	2,0	1,27	5	40

Jigsaw blade

- Straight cut
- Ideal for very thin material
- High performance steel

In the style of: AEG® 274652, Bosch® T118G, Metabo® 23636
Suitable for: Bosch®, AEG® (Atlas Copco), Metabo®, Lenox®, Milwaukee®, Elu®, Hitachi®, Holz-Her®, Mafell®, Makita®, Flex®, Sparky®



Technical data:

Suitable for: wood and aluminium 0.9 to 1.2 mm
thin sheet metals
non ferrous metal

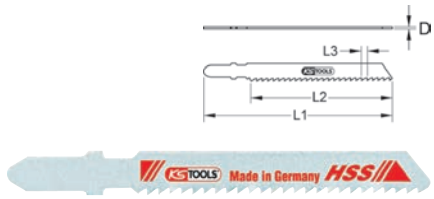
	No. teeth	L1 mm	L2 mm	L3 mm	D mm	Content	
129.3110	56	75,0	50,0	0,9	1,0	5	40

Bi metal jigsaw blades

- Straight cut
- For thick material

In the style of: AEG® 254064, Bosch® T118B, Metabo® 23638, Milwaukee® 48-42-5101

Suitable for: Bosch®, AEG® (Atlas Copco), Metabo®, Lenox®, Milwaukee®, Elu®, Hitachi®, Holz-Her®, Mafell®, Makita®, Flex®, Sparky®



Technical data:

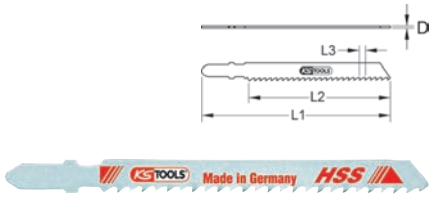
Suitable for: mild steel and aluminum from 3 to 6 mm
fabric-base plastics
non ferrous metal

	No. teeth	L1 mm	L2 mm	L3 mm	D mm	Content	
129.3113	24	75,0	50,0	2,0	1,0	5	30

Jigsaw blades

- Faster and straight cut
- Ideal for aluminium

In the style of: AEG ® 254315, Bosch ® T127D, Metabo ® 23639
Suitable for: Bosch ®, AEG ® (Atlas Copco), Metabo ®, Lenox ®, Milwaukee ®, Elu ®, Hitachi ®, Holz-Her ®, Mafell ®, Makita ®, Flex ®, Sparky ®



Technical data:

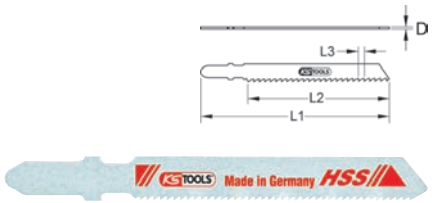
Suitable for: non ferrous metal and aluminium
plastic and eternit 2 to 20 mm

	No. teeth	L1 mm	L2 mm	L3 mm	D mm	Content	
129.3118	24	100,0	75,0	3,0	1,15	5	40

Jigsaw blade

- Straight cut
- For thin material
- High performance steel

In the style of: AEG® 254063, Bosch® T118A, Metabo® 23637
Suitable for: Bosch®, AEG® (Atlas Copco), Metabo®, Lenox®, Milwaukee®, Elu®, Hitachi®, Holz-Her®, Mafell®, Makita®, Flex®, Sparky®



Technical data:

Suitable for: mild steel and aluminum
non ferrous metal 1.5 to 3.0 mm
stainless steel

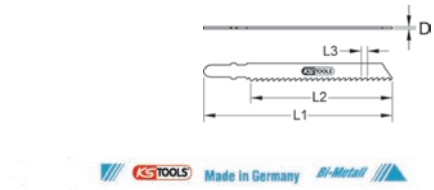
	No. teeth	L1 mm	L2 mm	L3 mm	D mm	Content	
129.3111	56	75,0	50,0	0,9	1,0	5	40

Bi metal jigsaw blades

- Straight cut
- Stainless steel

In the style of: Bosch® T111HF, Lenox® 410S

Suitable for: Bosch®, AEG® (Atlas Copco), Metabo®, Lenox®, Milwaukee®, Elu®, Hitachi®, Holz-Her®, Mafell®, Makita®, Flex®, Sparky®



Technical data:

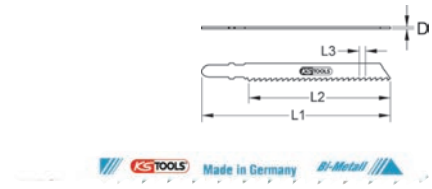
Suitable for: mild steel and aluminum
steel and non ferrous metal
stainless steel 3 to 12 mm

	No. teeth	L1 mm	L2 mm	L3 mm	D mm	Content	
129.31135F	36	100,0	75,0	2,0	1,0	5	40

Bi metal jigsaw blades

- Faster and straight cut
- Flexible and shatter proof
- Ideal for aluminium
- Stainless steel

In the style of: Bosch® T127DF, Metabo® 23974, Lenox® 406S, Milwaukee® 48-42-5300
Suitable for: Bosch®, AEG® (Atlas Copco), Metabo®, Lenox®, Milwaukee®, Elu®, Hitachi®, Holz-Her®, Mafell®, Makita®, Flex®, Sparky®



Technical data:

Suitable for: non ferrous metal and aluminium
plastic and eternit 3 to 15 mm
wooden with nails

	No. teeth	L1 mm	L2 mm	L3 mm	D mm	Content	
129.3118F	24	100,0	75,0	3,0	1,27	5	40

Jigsaw blades

- Flexible and shatter proof
- ideal for non-ferrous metal, stainless steel, sheet steel, car body sheet, pressed materials and resopal

Suitable for: Ober, KS, Pneutec, CP, KS 515.3000 und 515.3200

	No. teeth	TPI	D mm	L mm	Content	
129.3740	80	32	1,0	100,0	5	30
129.3742	60	24	1,0	100,0	5	30
129.3744	45	18	1,0	100,0	5	30
129.3746	35	14	2,0	100,0	5	30

Jigsaw blades

- Flexible and shatter proof
- ideal for non-ferrous metal, stainless steel, sheet steel, car body sheet, pressed materials and resopal

Suitable for: SIG und Flex

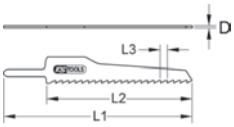
	No. teeth	TPI	D mm	L mm	Content	
129.3750	80	32	0,7	100,0	5	20
129.3752	60	24	1,0	100,0	5	20
129.3754	45	18	1,4	100,0	5	20
129.3756	35	14	1,8	100,0	5	20

SABRE SAW BLADES

Sabre saw blades curved cut

- Fast cut
- With hardened teeth
- Ideal for aluminium

In the style of: AEG® 318-127, Bosch® S811H, Metabo® 31123, Flex® 200778
Suitable for: Bosch®, AEG® (Atlas Copco), Metabo®, Lenox®, Milwaukee®, Elu®, Hitachi®, Holz-Her®, Mafell®, Makita®, Flex®, Sparky®



Technical data:

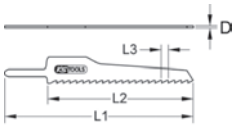
Suitable for: non ferrous metal and aluminium
wood and chip chipboard 6 to 100 mm
plastic and eternit

	No. teeth	L1 mm	L2 mm	L3 mm	D mm	Content	
129.4010	66	300,0	280,0	4,2	1,3	5	240

Sabre saw blades curved cut

- Faster, cleaner, straighter and curve cut

In the style of: AEG® 318-126, Bosch® S644D, Black&Decker® 40109, Metabo® 31120, Dewalt® 40109, Milwaukee® 48-00-1031
Suitable for: Bosch®, AEG® (Atlas Copco), Metabo®, Lenox®, Milwaukee®, Elu®, Hitachi®, Holz-Her®, Mafell®, Makita®, Flex®, Sparky®



Technical data:

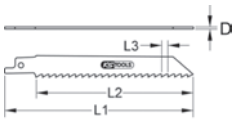
Suitable for: hardwood and softwood 6 to 100 mm
chipboard and plywood
plastic

	No. teeth	L1 mm	L2 mm	L3 mm	D mm	Content	
129.4011	30	150,0	130,0	4,2	1,3	5	100

Sabre saw blades

- Fast cut
- Two sided cutting

In the style of: AEG® 318-131, Bosch® S828D, Black&Decker® 40127, Metabo® 31136, Flex® 206016, Milwaukee® 48-00-1052
Suitable for: Bosch®, AEG® (Atlas Copco), Metabo®, Lenox®, Milwaukee®, Elu®, Hitachi®, Holz-Her®, Mafell®, Makita®, Flex®, Sparky®



Technical data:

Suitable for: wood and plastic 6 to 100 mm
plasterborad and aerated concrete

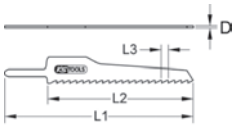
	No. teeth	L1 mm	L2 mm	L3 mm	D mm	Content	
129.4014	30	150,0	130,0	4,2	1,3	5	130

Bi metal sabre saw blades

- Fast cut
- Long service life
- Flexible and shatter proof
- Ideal for thick walled cast iron pipe

In the style of: Bosch® S611DF, Lenox® 656R, Milwaukee® 48-01-5035

Suitable for: Bosch®, AEG® (Atlas Copco), Metabo®, Lenox®, Milwaukee®, Elu®, Hitachi®, Holz-Her®, Mafell®, Makita®, Flex®, Sparky®



Technical data:

Suitable for: wood with nails and hardwood
plasterborad and aerated concrete

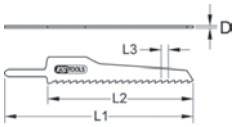
	No. teeth	L1 mm	L2 mm	L3 mm	D mm	Content	
129.4016	30	150,0	130,0	4,2	1,3	5	90

Sabre saw blades

- Especially suitable for fast cutting
- Fast, exact, coarse and curve cuts

In the style of: Bosch® S1617K

Suitable for: Bosch®, AEG® (Atlas Copco), Metabo®, Lenox®, Milwaukee®, Elu®, Hitachi®, Holz-Her®, Mafell®, Makita®, Flex®, Sparky®



Technical data:

Suitable for: wood and greenwood
hardwood and softwood 20 to 150 mm

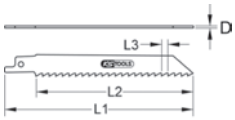
	No. teeth	L1 mm	L2 mm	L3 mm	D mm	Content	
129.4020	33	300,0	280,0	8,5	1,3	5	230

Sabre saw blades

- Coarse and fast cut
- Ideal for old building renovation
- Chrome vanadium

In the style of: Bosch® S1111K, Black&Decker® 40108

Suitable for: Bosch®, Black&Decker®, AEG® (Atlas Copco), Metabo®, Lenox®, Milwaukee®, DeWalt®, Hitachi®, Makita®, Rockwell®, Skil®, Flex®



Technical data:

Suitable for: wood and greenwood
hardwood and softwood 20 to 150 mm

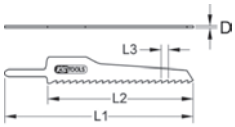
	No. teeth	L1 mm	L2 mm	L3 mm	D mm	Content	
129.4022	25	230,0	210,0	8,5	1,3	5	190

Sabre saw blades

- Coarse cut
- Especially suitable for fast cutting
- Ideal for old building renovation

In the style of: Flex® 200751

Suitable for: Bosch®, Black&Decker®, AEG® (Atlas Copco), Metabo®, Lenox®, Milwaukee®, DeWalt®, Hitachi®, Makita®, Rockwell®, Skil®, Flex®



Technical data:

Suitable for: wood and plastic 20 to 100 mm
plasterboard

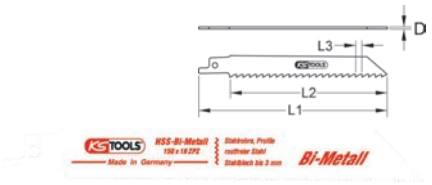
	No. teeth	L1 mm	L2 mm	L3 mm	D mm	Content	
129.4031	20	150,0	130,0	6,3	1,3	5	120

Sabre saw blades

- Faster and straight cut
- For thin material
- Flexible and shatter proof
- Stainless steel

In the style of: AEG ® 318-129, Bosch ® S922EF, Black&Decker ® 40116, Metabo ® 31132, Flex ® 200735, Lenox ® 618R, Milwaukee ® 48-00-5184

Suitable for: Bosch ®, Black&Decker ®, AEG ® (Atlas Copco), Metabo ®, Lenox ®, Milwaukee ®, DeWalt ®, Hitachi ®, Makita ®, Rockwell ®, Skil ®, Flex ®



Technical data:

Suitable for: steel and stainless steel
non-ferrous metal and steel tubes 1.5 to 12 mm

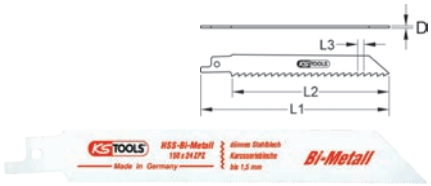
	No. teeth	L1 mm	L2 mm	L3 mm	D mm	Content	
129.4401	90	150,0	130,0	1,4	0,9	5	100

Sabre saw blades

- Faster and straight cut
- For thin materials
- Flexible and shatter proof
- Stainless steel

In the style of: AEG® 318-128, Bosch® S922AF, Black&Decker® 40125, Metabo® 31129, Flex® 200743, Lenox® 624R, Milwaukee® 48-00-5186

Suitable for: Bosch®, Black&Decker®, AEG® (Atlas Copco), Metabo®, Lenox®, Milwaukee®, DeWalt®, Hitachi®, Makita®, Rockwell®, Skil®, Flex®



Technical data:

Suitable for: sheet steel and profile
non-ferrous metal up to 1 mm

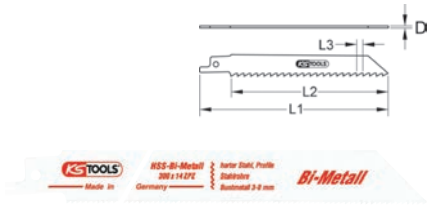
	No. teeth	L1 mm	L2 mm	L3 mm	D mm	Content	
129.4405	120	150,0	130,0	1,0	0,9	5	100

Sabre saw blades

- Clean cut
- Ideal for non ferrous metal

In the style of: Metabo ® 31124

Suitable for: Bosch ®, AEG ® (Atlas Copco), Metabo ®, Lenox ®, Milwaukee ®,Elu ®, Hitachi ®, Holz-Her ®, Mafell ®, Makita ®, Flex ®, Sparky ®



Technical data:

Suitable for: steel and non ferrous metal
steel tube 2 to 8 mm
wooden with nails

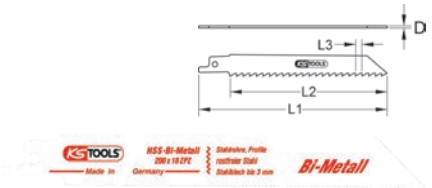
	No. teeth	L1 mm	L2 mm	L3 mm	D mm	Content	
129.4422	154	300,0	280,0	1,8	0,9	5	200

Sabre saw blades

- Faster and straight cut
- For thin material
- Flexible and shatter proof
- Stainless steel

In the style of: Bosch ® S1122EF, Lenox ® 818R, Milwaukee ® 48-00-5188

Suitable for: Bosch ®, AEG ® (Atlas Copco), Metabo ®, Lenox ®, Milwaukee ®, Elu ®, Hitachi ®, Holz-Her ®, Mafell ®, Makita ®, Flex ®, Sparky ®



Technical data:

Suitable for: non-ferrous metal 1.5 to 3 mm
steel, profile and pipes

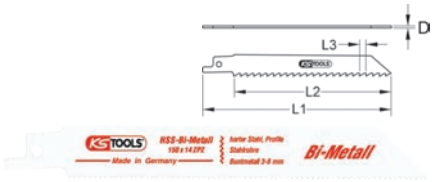
	No. teeth	L1 mm	L2 mm	L3 mm	D mm	Content	
129.4402	126	200,0	180,0	1,4	0,9	5	130

Sabre saw blades

- Faster and straight cut
- Flexible and shatter proof
- For thick material
- Stainless steel

In the style of: AEG ® 318-130, Bosch ® S644D, Black&Decker ® 40113, Metabo ® 31134, Flex ® 200727, Lenox ® 614R, Milwaukee ® 48-00-5182

Suitable for: Bosch ®, Black&Decker ®, AEG ® (Atlas Copco), Metabo ®, Lenox ®, Milwaukee ®, DeWalt ®, Hitachi ®, Makita ®, Rockwell ®, Skil ®, Flex ®



Technical data:

Suitable for: non-ferrous metal
steel and stainless steel
steel shet and steel tubes 2 to 8 mm

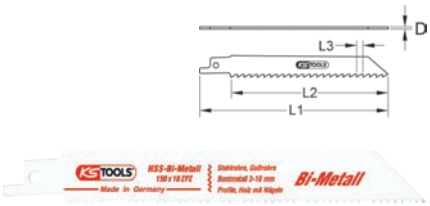
	No. teeth	L1 mm	L2 mm	L3 mm	D mm	Content	
129.4411	70	150,0	130,0	1,8	0,9	5	100

Sabre saw blades

- Flexible and shatter proof
- Ideal for wood with nails

In the style of: Bosch ® S922HF, Metabo ® 31131, Flex ® 200778, Lenox ®610R, Milwaukee ® 48-00-5092

Suitable for: Bosch ®, Black&Decker ®, AEG ® (Atlas Copco), Metabo ®, Lenox ®, Milwaukee ®, DeWalt ®, Hitachi ®, Makita ®, Rockwell ®, Skil ®, Flex ®



Technical data:

Suitable for: non-ferrous metal
steel, profile and steel tubes 3 to 12 mm
wooden with nails

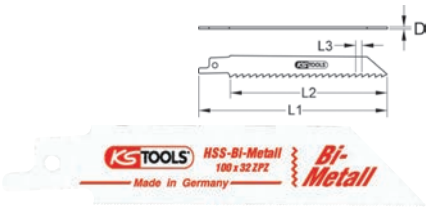
	No. teeth	L1 mm	L2 mm	L3 mm	D mm	Content	
129.4430	50	150,0	130,0	2,5	0,9	5	100

Sabre saw blades

- Faster and straight cut
- For thin materials
- Flexible and shatter proof
- Ideal for body constructions
- Stainless steel

In the style of: Bosch ® S522GF, Black&Decker ® 40127, Metabo ® 31127, Flex ® 200719

Suitable for: Bosch ®, Black&Decker ®, AEG ® (Atlas Copco), Metabo ®, Lenox ®, Milwaukee ®, DeWalt ®, Hitachi ®, Makita ®, Rockwell ®, Skil ®, Flex ®



Technical data:

Suitable for: sheet steel and profile to 1 mm
car body panels

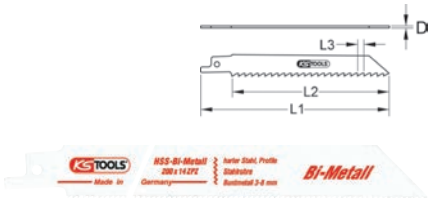
	No. teeth	L1 mm	L2 mm	L3 mm	D mm	Content	
129.4404	91	100,0	80,0	0,8	0,9	5	60

Sabre saw blades

- Faster and straight cut
- Flexible and shatter proof
- For thick material
- Stainless steel

In the style of: Metabo ® 31135

Suitable for: Bosch ®, Black&Decker ®, AEG ® (Atlas Copco), Metabo ®, Lenox ®, Milwaukee ®, DeWalt ®, Hitachi ®, Makita ®, Rockwell ®, Skil ®, Flex ®



Technical data:

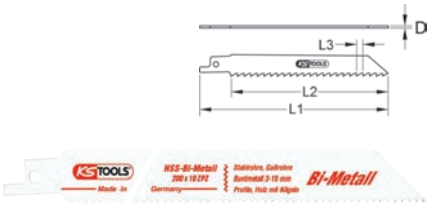
Suitable for: non-ferrous metal
steel and stainless steel
steel shet and steel tubes 2 to 8 mm

	No. teeth	L1 mm	L2 mm	L3 mm	D mm	Content	
129.4415	98	200,0	180,0	1,8	0,9	5	130

Sabre saw blades

- Flexible and shatter proof
- Ideal for wood with nails

In the style of: Flex® 217190, Lenox® S810R
Suitable for: Bosch®, AEG® (Atlas Copco), Metabo®, Lenox®, Milwaukee®, Elu®, Hitachi®, Holz-Her®, Mafell®, Makita®, Flex®, Sparky®



Technical data:

Suitable for: steel and steel tubes 3 to 12 mm
Aluminum and metal
profile and pallet constrction 3 to 150 mm

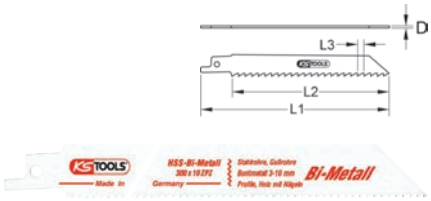
	No. teeth	L1 mm	L2 mm	L3 mm	D mm	Content	
129.4431	70	200,0	180,0	2,5	0,9	5	130

Sabre saw blades

- Flexible and shatter proof
- Ideal for wood with nails

In the style of: Bosch® S1211H, Metabo® 31125, Flex® 201928

Suitable for: Bosch®, AEG® (Atlas Copco), Metabo®, Lenox®, Milwaukee®, Elu®, Hitachi®, Holz-Her®, Mafell®, Makita®, Flex®, Sparky®



Technical data:

Suitable for: steel and steel tubes 3 to 12 mm
non ferrous metal and insulation material
wood with nails 3 to 230 mm

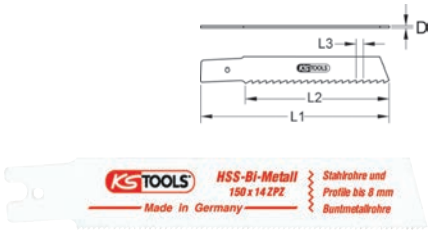
	No. teeth	L1 mm	L2 mm	L3 mm	D mm	Content	g
129.4432	110	300,0	280,0	2,5	0,9	5	200

Sabre saw blades

- Straight cut
- Ideal for cutting pipes
- Stainless steel

In the style of: Rems ® 561005

Suitable for: Pipe cutting machines Rems ®



Technical data:

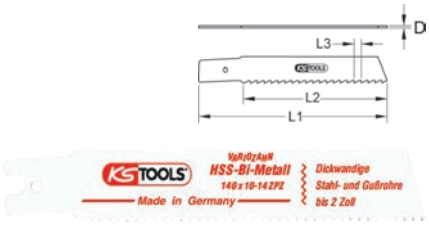
Suitable for: steel and non ferrous metal to 50 mm
tube and profile

	No. teeth	L1 mm	L2 mm	L3 mm	D mm	Content	g
129.4451	70	150,0	130,0	1,8	0,9	5	130

Sabre saw blades

- Variable tooth pitch
- Straight cut
- Ideal for cutting pipes
- Stainless steel

Suitable for: Pipe cutting machines Rems ®, Ridgid ®, Rothenberger ®, Virax ®



Technical data:

Suitable for: thick walled cast and steel pipe up to 50 mm
non-ferrous metal and aluminium
steel

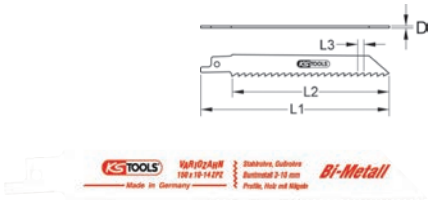
	No. teeth	L1 mm	L2 mm	L3 mm	D mm	Content	g
129.4483	45	140,0	120,0	2,5	1,7	5	220

Sabre saw blades

- Variable tooth pitch
- Flexible and shatter proof
- For different materials

In the style of: Lenox ® 650R

Suitable for: Bosch ®, Black&Decker ®, AEG ® (Atlas Copco), Metabo ®, Lenox ®, Milwaukee ®, DeWalt ®, Hitachi ®, Makita ®, Rockwell ®, Skil ®, Flex ®



Technical data:

Suitable for: tube and profile
non ferrous metal 3 to 12 mm
wood with nails from 3 to 100 mm

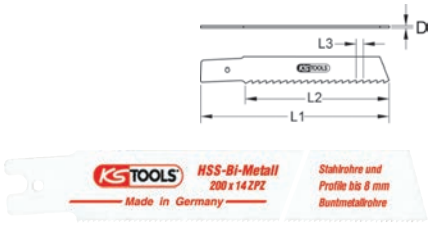
	No. teeth	L1 mm	L2 mm	L3 mm	D mm	Content	g
129.4440V	70	150,0	130,0	1,8 - 2,5	1,3	5	130

Sabre saw blades

- Straight cut
- Ideal for cutting pipes
- Stainless steel

In the style of: Rems ® 561003

Suitable for: Pipe cutting machines Rems ®



Technical data:

Suitable for: steel and non ferrous metal
tube and profile up to 100 mm

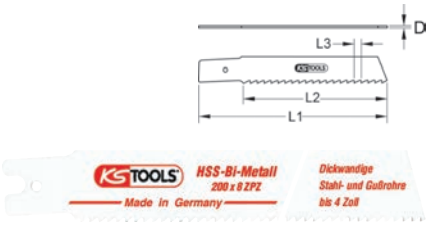
	No. teeth	L1 mm	L2 mm	L3 mm	D mm	Content	g
129.4454	98	200,0	180,0	1,8	0,9	5	180

Sabre saw blades

- Straight cut
- Ideal for cutting pipes
- Stainless steel

In the style of: Rems ® 561002

Suitable for: Pipe cutting machines Rems ®



Technical data:

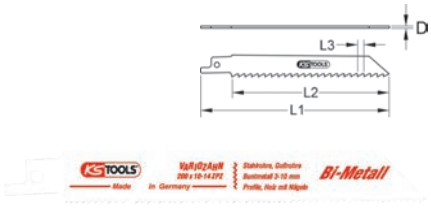
Suitable for: steel and non ferrous metal
thick walled cast and steel pipe up l to 10 mm

	No. teeth	L1 mm	L2 mm	L3 mm	D mm	Content	g
129.4486	56	200,0	180,0	3,2	1,6	5	300

Sabre saw blades

- Variable tooth pitch
- Flexible and shatter proof
- For different materials
- Stainless steel

Suitable for: Bosch ®, AEG ® (Atlas Copco), Metabo ®, Lenox ®, Milwaukee ®, Elu ®, Hitachi ®, Holz-Her ®, Mafell ®, Makita ®, Flex ®, Sparky ®



Technical data:

Suitable for: metal from 3 to 12 mm
wood with nails from 3 to 190 mm
plastic

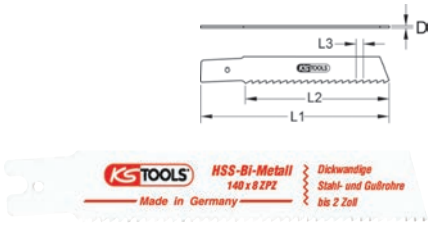
	No. teeth	L1 mm	L2 mm	L3 mm	D mm	Content	g
129.4441V	98	200,0	180,0	1,8 - 2,5	1,3	5	40

Sabre saw blades

- Straight cut
- Ideal for cutting pipes
- Stainless steel

In the style of: Rems ® 561001

Suitable for: Pipe cutting machines Rems ®



Technical data:

Suitable for: steel and non ferrous metal
cast and steel pipe from 4 mm
Aluminium

	No. teeth	L1 mm	L2 mm	L3 mm	D mm	Content	g
129.4482	36	140,0	120,0	3,2	1,6	5	220

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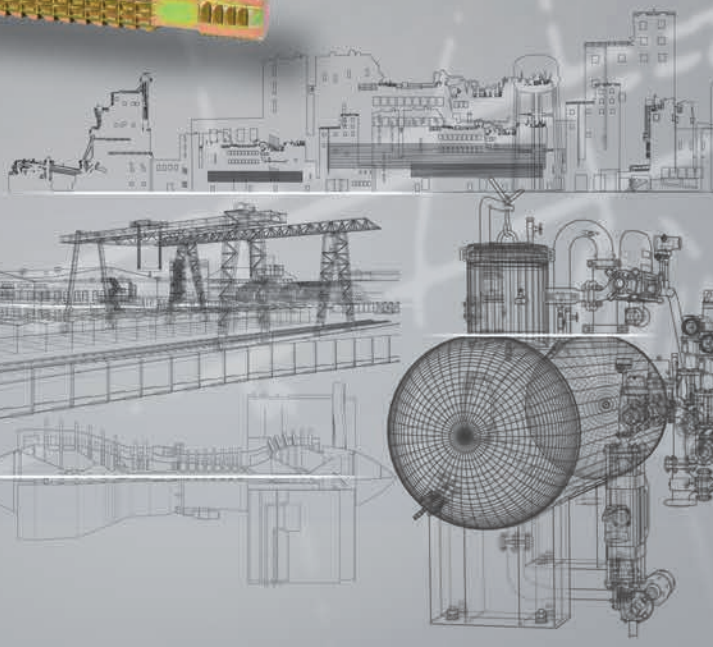


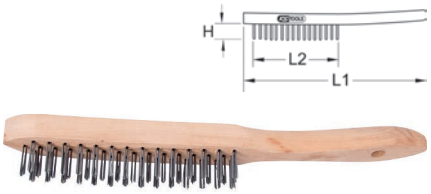
KS TOOLS®

Innovation is
our mission!

HAND WIRE BRUSHES

Steel hand wire brush 3 rowed

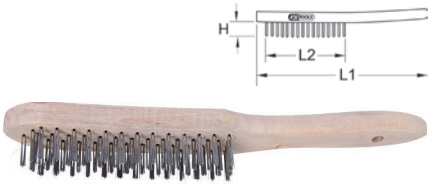
- 3 rowed
- Universal usage
- wooden handle
- For surface preparation
- With steel bristles



	H mm	L1 mm	L2 mm	g
201.2305	32,0	290,0	138,0	120

Steel hand wire brush 4 rowed

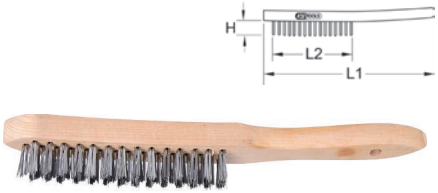
- 4 rowed
- Universal usage
- wooden handle
- For surface preparation
- With steel bristles



	H mm	L1 mm	L2 mm	g
201.2311	32,0	290,0	138,0	120

Stainless steel hand wire hand brush 3 rowed

- 3 rowed
- Universal usage
- wooden handle
- For surface preparation
- With stainless steel bristles



	H mm	L1 mm	L2 mm	g
201.2310	32,0	290,0	138,0	120

Stainless steel hand wire hand brush 4 rowed

- 4 rowed
- Universal usage
- wooden handle
- For surface preparation
- With stainless steel bristles

	H mm	L1 mm	L2 mm	g
201.2306	32,0	290,0	138,0	100

Steel wire all purpose wire brush

- With plastic handle
- For surface preparation
- Crimped steel wire

	H mm	L1 mm	L2 mm	g
201.2300	28,0	250,0	145,0	90

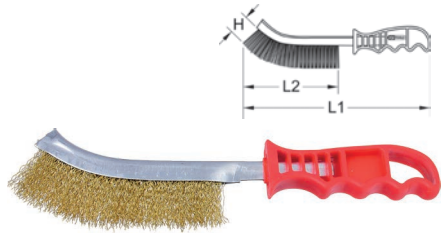
Stainless steel wire all purpose wire brush

- With plastic handle
- For surface preparation
- Curled and rust free steel wire

	H mm	L1 mm	L2 mm	g
201.2301	28,0	250,0	145,0	90

Brass steel all purpose wire brush

- With plastic handle
- For surface preparation
- Curved brass wire



	H mm	L1 mm	L2 mm	g
201.2302	28,0	250,0	145,0	90

Brass wire hand brush 3 rowed

- 3 rowed
- Universal usage
- Plastic hand grip casing
- For surface preparation
- Straight brass wire

	H mm	L1 mm	L2 mm	g
201.2326	25,0	285,0	130,0	105

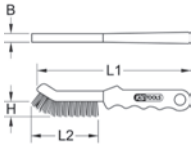
Steel wire hand brush 4 rowed

- 4 rowed
- Universal usage
- Plastic hand grip casing
- For surface preparation
- Smooth steel wire

	H mm	L1 mm	L2 mm	g
201.2325	25,0	285,0	130,0	120

Steel wire brake saddle wire brush 2 rowed, straight

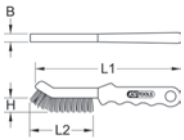
- 2 rowed
- With hanging hole
- Very narrow execution
- For narrow brake saddle shafts
- Robust stock
- Two component handle
- For removing of stubborn brake dust
- For surface preparation
- Smooth steel wire



	B mm	H mm	L1 mm	L2 mm	g
201.2320	12,0	22,0	225,0	90,0	90

Steel wire brake saddle wire brush 2 rowed, straight and tapered point

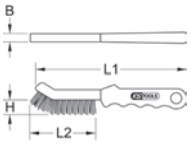
- 2 rowed
- With hanging hole
- Tapered point
- Very narrow execution
- For narrow brake saddle shafts
- Robust stock
- Two component handle
- For removing of stubborn brake dust
- For surface preparation
- Smooth steel wire



	B mm	H mm	L1 mm	L2 mm	g
201.2321	12,0	14,0 - 22,0	225,0	90,0	90

Brass wire brake saddle wire brush 2 rowed, straight

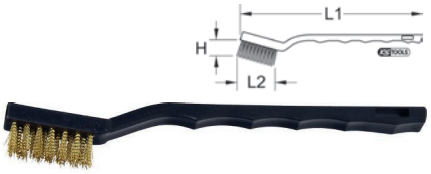
- 2 rowed
- Very narrow execution
- For narrow brake saddle shafts
- Robust stock
- With hanging hole
- Two component handle
- For removing of stubborn brake dust
- For surface preparation
- Curved brass wire



	B mm	H mm	L1 mm	L2 mm	
201.2322	12,0	22,0	225,0	90,0	90

Brass wire spark plug wire brush 2 rowed

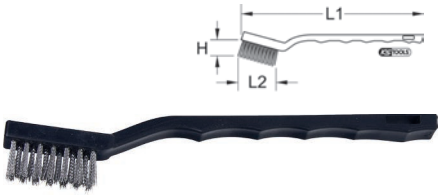
- 2 rowed
- for gentle cleaning of electrodes and contacts on spark plugs
- For surface preparation
- Brass wire



	H mm	L1 mm	L2 mm	
201.2316	14,8	170,0	24,5	20

Steel wire spark plug wire brush 2 rowed

- 2 rowed
- for gentle cleaning of electrodes and contacts on spark plugs
- For surface preparation
- Steel wire

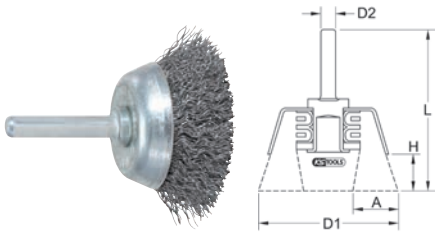


	H mm	L1 mm	L2 mm	
201.2315	14,8	170,0	24,5	20

MACHINE OPERATED WIRE BRUSHES

Steel wire jar brush 0,3 mm

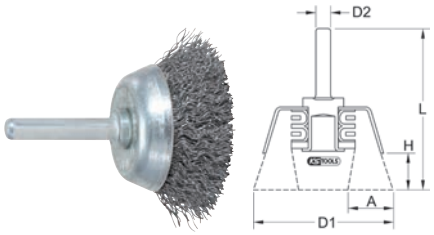
- With 6 mm mandril
- To enable with high rotary speed
- Long durability through compact border
- For use with drill machine
- For surface preparation
- Crimped steel wire



	RPM max	A mm	D1 mm	D2 mm	H mm	L mm	
340.0001	4500	10,0	38,0	6,0	20,0	55,0	50
340.0002	4500	10,0	50,0	6,0	20,0	70,0	60
340.0003	4500	10,0	63,0	6,0	20,0	88,0	70
340.0004	4500	15,0	75,0	6,0	25,0	105,0	80
340.0005	4500	15,0	80,0	6,0	25,0	112,0	90

Rust free steel jar brush 0,3 mm

- With 6 mm mandril
- To enable with high rotary speed
- Long durability through compact border
- For use with drill machine
- For surface preparation
- Curled and rust free steel wire



	RPM max	A mm	D1 mm	D2 mm	H mm	L mm	
340.0011	4500	10,0	38,0	6,0	20,0	55,0	50
340.0012	4500	10,0	50,0	6,0	20,0	70,0	60
340.0013	4500	10,0	63,0	6,0	20,0	88,0	70
340.0014	4500	15,0	75,0	6,0	25,0	105,0	80
340.0015	4500	15,0	80,0	6,0	25,0	112,0	90

Steel wire brush 0,3 mm

- With 6 mm mandril
- For use with drill machine
- For difficult to access areas
- For surface preparation
- Crimped steel wire

	RPM max	D1 mm	D2 mm	H mm	L mm	
340.0016	20000	17,0	6,0	22,0	65,0	30
340.0017	18000	23,0	6,0	25,0	68,0	40
340.0018	18000	30,0	6,0	25,0	68,0	50

Paint brush steel wire brush 0,5 mm

- With 6 mm mandril
- For use with drill machine
- For difficult to access areas
- For surface preparation
- Crimped steel wire

	RPM max	D1 mm	D2 mm	H mm	L mm	
340.0019	20000	17,0	6,0	22,0	65,0	30
340.0020	18000	23,0	6,0	25,0	68,0	40
340.0021	18000	30,0	6,0	25,0	68,0	40

Steel wire jar brush 0,5 mm

- Braided design
- With thread arbor
- For use in one hand angle grinder
- Ideal for heavy brush works
- For surface preparation
- Crimped steel wire

	RPM max	mm	D mm	H mm	L mm	No. plaits	
340.0022	12500	M14 x 2,0	65,0	20,0	55,0	18	160
340.0023	11500	M14 x 2,0	80,0	22,0	68,0	20	200
340.0024	11500	M14 x 2,0	90,0	22,0	77,0	20	240

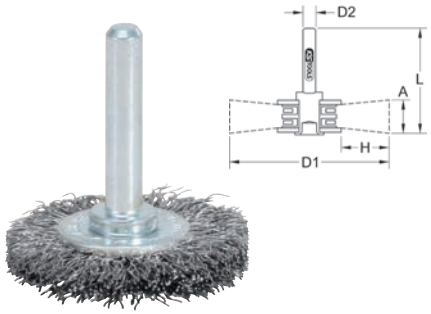
Rust free stainless steel wire jar brush 0,5 mm

- Braided design
- With thread arbor
- For use in one hand angle grinder
- Ideal for heavy brush works
- For surface preparation
- Curled and rust free steel wire

	RPM max	mm	D mm	H mm	L mm	No. plaits	
340.0025	12500	M14 x 2,0	65,0	20,0	55,0	18	160
340.0026	11500	M14 x 2,0	80,0	22,0	68,0	20	200
340.0027	11500	M14 x 2,0	90,0	22,0	77,0	20	240

Steel wire brush disc 0,3 mm

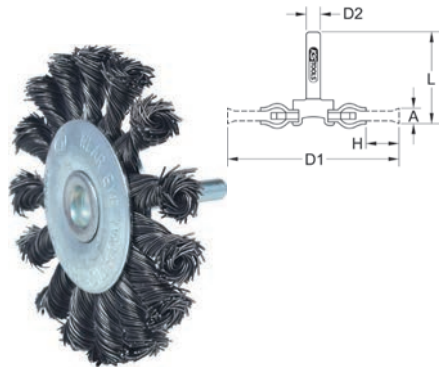
- With 6 mm mandril
- Especially longlife industry version
- For use with drill machine
- For surface preparation
- Crimped steel wire



	RPM max	A mm	D1 mm	D2 mm	H mm	L mm	
340.0028	20000	9,0	30,0	6,0	6,0	45,0	40
340.0029	15000	14,0	50,0	6,0	12,0	45,0	40
340.0030	15000	14,0	60,0	6,0	17,0	45,0	60
340.0031	15000	16,0	70,0	6,0	19,0	45,0	80
340.0032	15000	18,0	80,0	6,0	20,0	45,0	100

Steel wire circular brush 0,5 mm

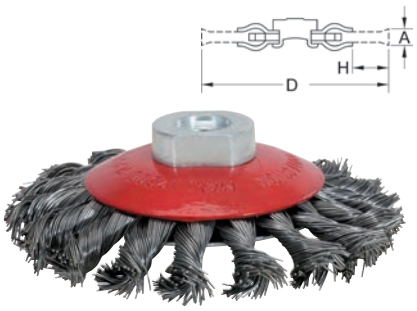
- Braided design
- With 6 mm mandril
- Especially longlife industry version
- For use in with drill machine
- For removing of underbody coating
- For surface preparation
- Smooth steel wire



	RPM max	A mm	D1 mm	D2 mm	H mm	L mm	
340.0039	15000	12,0	75,0	6,0	15,0	43,0	100

Cone design steel wire circular brush 0,5 mm

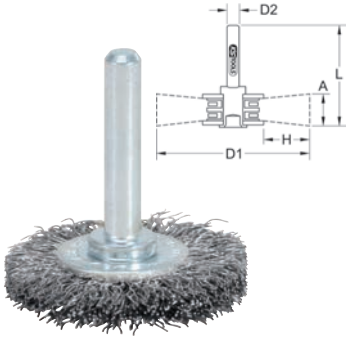
- Braided design
- With thread arbor
- Especially longlife industry version
- For use in one hand angle grinder
- For hard to reach places
- For surface preparation
- Smooth steel wire



	RPM max		A mm	D mm	H mm	No. plaits	
340.0048	12500	M 14 x 2,0	12,0	100,0	20,0	18	190
340.0049	15000	M 14 x 2,0	12,0	115,0	24,0	20	210

Rust free steel wire brush disc 0,3 mm

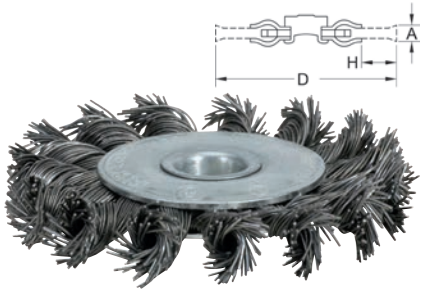
- With 6 mm mandril
- Especially longlife industry version
- For use with drill machine
- For surface preparation
- Curled and rust free steel wire



	RPM max	A mm	D1 mm	D2 mm	H mm	L mm	
340.0033	20000	9,0	30,0	6,0	6,0	45,0	40
340.0034	15000	14,0	50,0	6,0	12,0	45,0	40
340.0035	15000	14,0	60,0	6,0	17,0	45,0	60
340.0036	15000	16,0	70,0	6,0	19,0	45,0	80
340.0037	15000	18,0	80,0	6,0	20,0	45,0	100

Steel wire circular brush 0,5 mm

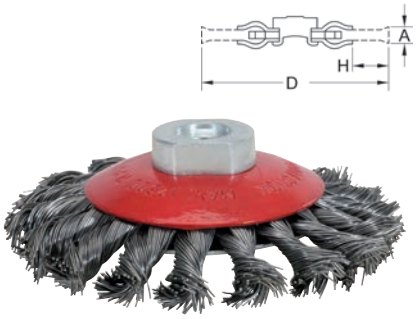
- Braided design
- With 22,2 mm bore reception
- Longlife industry version
- For use in one hand angle grinder
- For removing of rubber, grate and lacquer residue
- For surface preparation
- Smooth steel wire



	RPM max	A mm	D mm	H mm	No. plaits	
340.0040	12500	11,0	75,0	16,0	15	90
340.0041	12500	11,0	100,0	20,5	18	120
340.0042	12500	11,0	115,0	23,5	20	140
340.0043	12500	11,0	125,0	24,5	22	150

Rust free cone design steel wire circular brush 0,5 mm

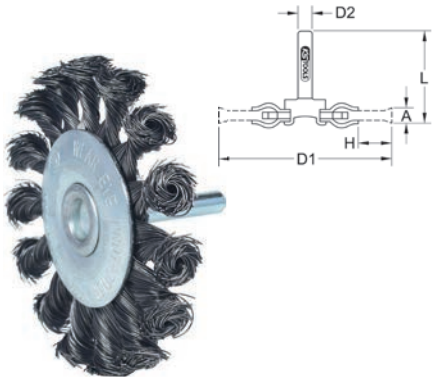
- Braided design
- With thread arbor
- Especially longlife industry version
- For use in one hand angle grinder
- For hard to reach places
- For surface preparation
- Flat and grate free steel wire



	RPM max	mm	A mm	D mm	H mm	No. plaits	
340.0050	12500	M 14 x 2,0	12,0	100,0	20,0	18	190
340.0051	15000	M 14 x 2,0	12,0	115,0	24,0	20	210

Steel wire circular brush 0,3 mm

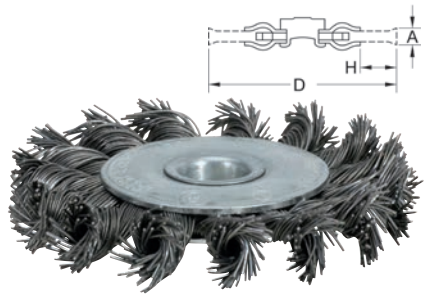
- Braided design
- With 6 mm mandril
- Especially longlife industry version
- For use in with drill machine
- For removing of underbody coating
- For surface preparation
- Smooth steel wire



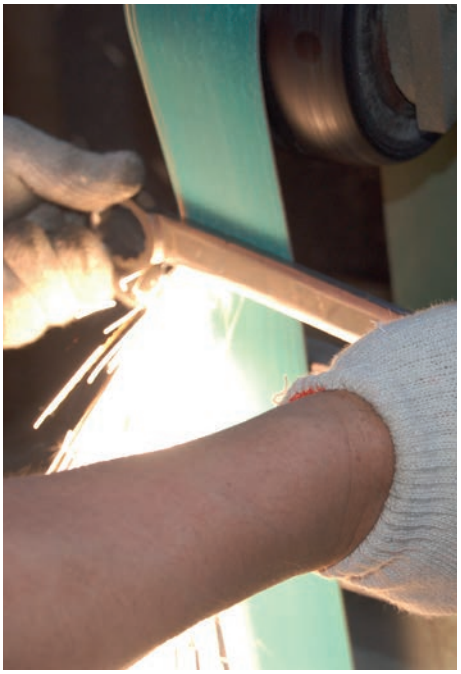
	RPM max	A mm	D1 mm	D2 mm	H mm	L mm	
340.0038	15000	12,0	75,0	6,0	15,0	43,0	100

Stainless steel and brushed steel 0,5 mm

- Braided design
- With 22,2 mm bore reception
- Longlife industry version
- For use in one hand angle grinder
- For removing of rubber, grate and lacquer residue
- For surface preparation
- Flat and grate free steel wire



	RPM max	A mm	D mm	H mm	No. plaits	
340.0044	12500	11,0	75,0	16,0	15	90
340.0045	12500	11,0	100,0	20,5	18	120
340.0046	12500	11,0	115,0	23,5	20	140
340.0047	12500	11,0	125,0	24,5	22	150



CUT OFF AND FLAP WHEELS

Clamping mandrel

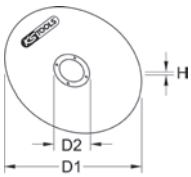
- High performances thin disks
- Special tool steel

	Shank mm	Profile	g
515.3017	6,0	round	72

High performances thin cutting disk

- Exact and clean cut
- No deburring necessary
- Very short cutting times
- Machine load reduced
- Inox stainless steel

Ideal for use in very thin materials until 2.5 mm, tool steel, sheet metal, thin walled pipes and profiles all type suited for locksmiths, car body building, sanitary and heating fitting, plumbing, sheet metal processing, carpentry, joinery, roofing, metal processing and all motor vehicles businesses.

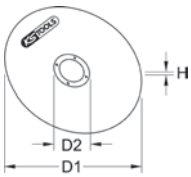


	RPM max	D1 mm	D2 mm	H mm	Content	g
337.2005	13300	50,0	6,0	1,0	25	100
337.2010	15250	100,0	16,0	1,6	25	1200
337.2015	13300	115,0	22,2	1,0	25	730
337.2025	12200	125,0	22,2	1,0	25	800

Allround flap wheel, curved

- For universal usage
- Zirconium aluminum oxide on a glassfibre plate
- Fan like and radial arrangement of the multi purpose disc
- High level of flexibilty
- Consistent high cutting power

Ideal for use in metal, stainless steel, wood and plastic.

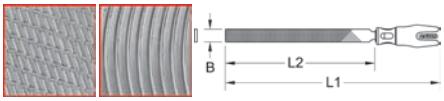


	RPM max	D1 mm	D2 mm	Grain	H mm	Content	g
337.2050	13300	115,0	22,2	40	7,2	10	730
337.2055	13300	115,0	22,2	60	7,2	10	730
337.2060	13300	115,0	22,2	80	7,2	10	730
337.2065	12200	125,0	22,2	40	7,2	10	800
337.2070	12200	125,0	22,2	60	7,2	10	800
337.2075	12200	125,0	22,2	80	7,2	10	800

RASP

Installation rasp

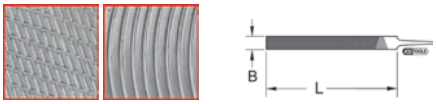
- Machined cut
- Two component handle
- Special tool steel



	L1 mm	L2 mm	B mm	File blade	g
157.0123	370,0	250,0	22,0	161.0123	270

Installation rasp insert

- Machined cut
- Special tool steel



	L mm	B mm		g
161.0123	250,0	22,0	161.0011	170

FILE BRUSHES

File Brush

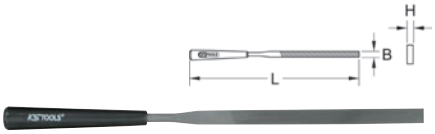
- Universal usage
- wooden handle
- for ribbed surfaces cleaning, such as filing
- Bristle area 110 x 38 mm
- with steel wire

	L mm	H mm	g
161.0001	250,0	20,0	85

FILES

Flat needle file

- High cutting rate
- With solid plastic handle
- For working in the area of the fine mechanics
- Special tool steel



	B mm	H mm	L mm	g
140.3051	5,0	1,0	145,0	10

Half round needle file

- High cutting rate
- With solid plastic handle
- For working in the area of the fine mechanics
- Special tool steel

	D mm	L mm	g
140.3058	5,0	145,0	10

Round needle file

- High cutting rate
- With solid plastic handle
- For working in the area of the fine mechanics
- Special tool steel

	D mm	L mm	g
140.3052	3,0	145,0	10

Square needle file

- High cutting rate
- With solid plastic handle
- For working in the area of the fine mechanics
- Special tool steel

	B mm	L mm	g
140.3056	2,0	145,0	10

Three square needle file

- High cutting rate
- With solid plastic handle
- For working in the area of the fine mechanics
- Special tool steel

	B mm	L mm	g
140.3054	3,0	145,0	10

Square needle file, extra slim

- High cutting rate
- Extra slim design
- With solid plastic handle
- For working in the area of the fine mechanics
- Special tool steel

	B mm	L mm	g
140.3055	2,0	90,0	10

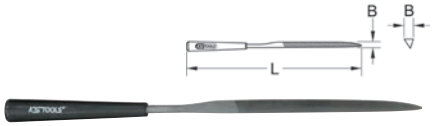
Oval needle file

- High cutting rate
- With solid plastic handle
- For working in the area of the fine mechanics
- Special tool steel

	B mm	L mm	g
140.3059	5,0	145,0	10

Insert needle files

- High cutting rate
- With solid plastic handle
- For working in the area of the fine mechanics
- Special tool steel



	B mm	L mm	g
140.3057	5,0	145,0	10

Tapered needle file

- High cutting rate
- With solid plastic handle
- For working in the area of the fine mechanics
- Special tool steel

	D mm	L mm	g
140.3053	5,0	145,0	10

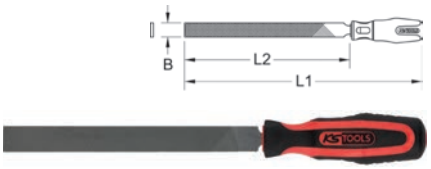
Needle file set in soft plastic storage case

- High cutting rate
- With solid plastic handle
- For working in the area of the fine mechanics
- Special tool steel

			g
140.3050	12 pcs	Needle file set in soft plastic storage case	900

Flat file

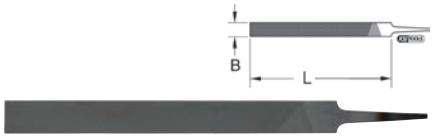
- DIN 7261 Form B
- Two component handle
- Special tool steel



		L1 mm	L2 mm	B mm	File blade	g
157.0025	1	315,0	200,0	20,0	161.0025	230
157.0026	1	380,0	250,0	25,0	161.0026	350
157.0027	1	420,0	300,0	30,0	161.0027	510
157.0028	1	470,0	350,0	35,0	161.0028	690
157.0004	2	230,0	150,0	15,0	161.0004	160
157.0005	2	315,0	200,0	20,0	161.0005	200
157.0006	2	380,0	250,0	25,0	161.0006	350
157.0007	2	420,0	300,0	30,0	161.0007	510
157.0008	2	470,0	350,0	35,0	161.0008	690
157.0014	3	230,0	150,0	15,0	161.0014	160
157.0015	3	315,0	200,0	20,0	161.0015	230
157.0016	3	380,0	250,0	25,0	161.0016	350

Flat file insert

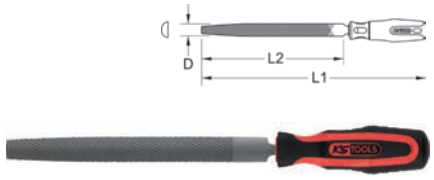
- DIN 7261 Form B
- Special tool steel



		L mm	B mm		g
161.0025	1	200,0	20,0	161.0013	130
161.0026	1	250,0	25,0	161.0010	250
161.0027	1	300,0	30,0	161.0010	410
161.0028	1	350,0	35,0	161.0010	590
161.0004	2	150,0	15,0	161.0012	60
161.0005	2	200,0	20,0	161.0013	100
161.0006	2	250,0	25,0	161.0010	250
161.0007	2	300,0	30,0	161.0010	410
161.0008	2	350,0	35,0	161.0010	590
161.0014	3	150,0	15,0	161.0012	60
161.0015	3	200,0	20,0	161.0013	130
161.0016	3	250,0	25,0	161.0010	250

Half round file

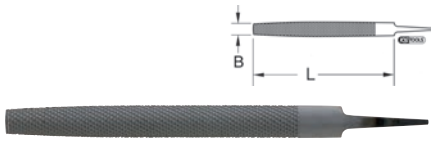
- DIN 7261 form E
- Two component handle
- Special tool steel



		L1 mm	L2 mm	D mm	File blade	g
157.0125	1	315,0	200,0	20,0	161.0125	230
157.0126	1	380,0	250,0	25,0	161.0126	340
157.0127	1	420,0	300,0	30,0	161.0127	510
157.0128	1	470,0	350,0	35,0	161.0128	750
157.0104	2	230,0	150,0	15,0	161.0104	160
157.0105	2	315,0	200,0	20,0	161.0105	230
157.0106	2	380,0	250,0	25,0	161.0106	340
157.0107	2	420,0	300,0	30,0	161.0107	510
157.0114	3	230,0	150,0	15,0	161.0114	160
157.0115	3	315,0	200,0	20,0	161.0115	230
157.0116	3	380,0	250,0	25,0	161.0116	340

Half round file insert

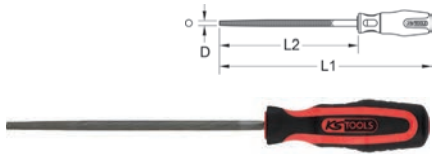
- DIN 7261 form E
- Special tool steel



		L mm	B mm		g
161.0125	1	200,0	20,0	161.0013	130
161.0126	1	250,0	25,0	161.0010	240
161.0127	1	300,0	30,0	161.0010	410
161.0128	1	350,0	35,0	161.0010	650
161.0104	2	150,0	15,0	161.0012	60
161.0105	2	200,0	20,0	161.0013	130
161.0106	2	250,0	25,0	161.0010	240
161.0107	2	300,0	30,0	161.0010	410
161.0114	3	150,0	15,0	161.0012	60
161.0115	3	200,0	20,0	161.0013	130
161.0116	3	250,0	25,0	161.0010	240

Round file

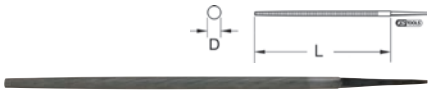
- DIN 7261 form F
- Two component handle
- Special tool steel



		L1 mm	L2 mm	D mm	File blade	g
157.0224	1	230,0	150,0	6,0	161.0224	130
157.0225	1	315,0	200,0	7,5	161.0225	150
157.0226	1	370,0	250,0	9,5	161.0226	200
157.0204	2	230,0	150,0	6,0	161.0204	60
157.0205	2	315,0	200,0	7,5	161.0205	150
157.0206	2	370,0	250,0	9,5	161.0206	200
157.0214	3	230,0	150,0	6,0	161.0214	130
157.0215	3	315,0	200,0	7,5	161.0215	150

Round file insert

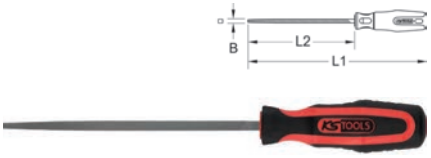
- DIN 7261 form F
- Special tool steel



		L mm	D mm		
161.0224	1	150,0	6,0	161.0012	30
161.0225	1	200,0	7,5	161.0013	50
161.0226	1	250,0	9,5	161.0011	100
161.0204	2	150,0	6,0	161.0012	30
161.0205	2	200,0	7,5	161.0013	50
161.0206	2	250,0	9,5	161.0011	100
161.0214	3	150,0	6,0	161.0012	30
161.0215	3	200,0	7,5	161.0013	50

Square file

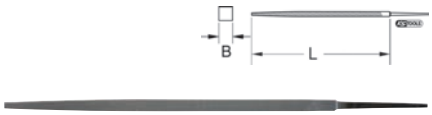
- DIN 7261 Form D
- Two component handle
- Special tool steel



		L1 mm	L2 mm	B mm	File blade	
157.0324	1	230,0	150,0	6,0	161.0324	130
157.0325	1	320,0	200,0	8,0	161.0325	170
157.0326	1	370,0	250,0	10,0	161.0326	250
157.0304	2	230,0	150,0	6,0	161.0304	130
157.0305	2	320,0	200,0	8,0	161.0305	170
157.0306	2	370,0	250,0	10,0	161.0306	250
157.0314	3	230,0	150,0	6,0	161.0314	130
157.0315	3	320,0	200,0	8,0	161.0315	170

Square file insert

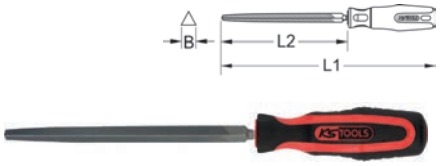
- DIN 7261 Form D
- Special tool steel



		L mm	B mm		
161.0324	1	150,0	6,0	161.0012	30
161.0325	1	200,0	8,0	161.0013	70
161.0326	1	250,0	10,0	161.0011	150
161.0304	2	150,0	6,0	161.0012	30
161.0305	2	200,0	8,0	161.0013	70
161.0306	2	250,0	10,0	161.0011	150
161.0314	3	150,0	6,0	161.0012	30
161.0315	3	200,0	8,0	161.0013	70

Three square file

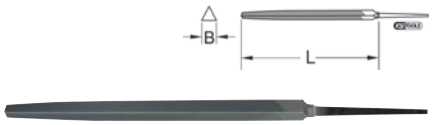
- DIN 7261 form C
- Two component handle
- Special tool steel



		L1 mm	L2 mm	B mm	File blade	
157.0424	1	230,0	150,0	11,0	161.0424	170
157.0425	1	320,0	200,0	15,0	161.0425	240
157.0426	1	370,0	250,0	17,5	161.0426	380
157.0427	1	420,0	300,0	20,0	161.0427	520
157.0404	2	230,0	150,0	11,0	161.0404	170
157.0405	2	320,0	200,0	15,0	161.0405	240
157.0406	2	370,0	250,0	17,5	161.0406	380
157.0407	2	420,0	300,0	20,0	161.0407	520
157.0414	3	230,0	150,0	11,0	161.0414	170
157.0415	3	320,0	200,0	15,0	161.0415	240
157.0416	3	370,0	250,0	17,5	161.0416	200

Three square file insert

- DIN 7261 form C
- Special tool steel



		L mm	B mm		
161.0424	1	150,0	11,0	161.0012	70
161.0425	1	200,0	15,0	161.0013	140
161.0426	1	250,0	17,5	161.0011	280
161.0427	1	300,0	20,0	161.0011	420
161.0404	2	150,0	11,0	161.0012	70
161.0405	2	200,0	15,0	161.0013	140
161.0406	2	250,0	17,5	161.0010	300
161.0407	2	300,0	20,0	161.0011	420
161.0414	3	150,0	11,0	161.0012	70
161.0415	3	200,0	15,0	161.0013	140
161.0416	3	250,0	17,5	161.0010	300

File handle

- For rectangle and round reception
- Two component handle

		D mm	L mm	
161.0010	▭	39,0	120,0	80
161.0011	◯	39,0	120,0	80
161.0012	◯	28,0	80,0	40
161.0013	◯	35,0	106,0	65

Workshop file set

- DIN 7261 form B, C, D, E, F
- Second cut
- 200 mm long
- Two component handle
- Special tool steel

Includes one flat, halfround, round, square and triangular file with a length of 200 mm and second cut

140.3000	5 pcs	Workshop file set	900

1 x		200 mm
1 x		200 mm
1 x		200 mm
1 x		200 mm
1 x		200 mm

THREAD FILES

Thread file, metric

- For the restoration of defective internal and external threads
- Suitable for right and left-handed thread
- Serviceable from both sides
- Special tool steel

Suitable for thread pitch: 0.8 - 3.0 mm

	L mm	
150.1340	230,0	130

Thread file, imperial

- For the restoration of defective internal and external threads
- Suitable for right and left-handed thread
- Serviceable from both sides
- Special tool steel

Suitable for thread pitch: 24 - 10 pitch imperial

	L mm	
150.1345	230,0	130

KS TOOLS®

Innovation is
our mission!

SNAP OFF KNIVES

Universal snap off blade knife

- For right handed use
- With pocket clip
- Blade 9 x 80 mm
- With 0,4 mm strong snap off blades
- Housing made from metal

	L mm		g
907.2167	130,0	907.2168	30

Universal snap off blade knife

- For right handed use
- With reinforcement eyelet
- Blade 9 x 80 mm
- With 0,4 mm strong snap off blades
- Blade guide out of metal
- Housing made out of plastic
- Two component handle

	L mm		g
907.2152	140,0	907.2168	50

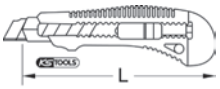
Standard universal snap off blade knife

- For right handed use
- With reinforcement eyelet
- Blade 18 x 100 mm
- With 0,5 mm strong snap off blades
- Blade guide out of metal
- Housing made out of plastic

	L mm		g
907.2157	140,0	907.2166	70

Standard universal snap off blade knife

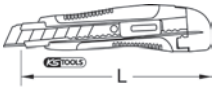
- For right handed use
- With reinforcement eyelet
- Blade 18 x 100 mm
- With 0,5 mm strong snap off blades
- Housing made out of plastic



	L mm		g
907.2156	150,0	907.2166	40

Universal snap off blade knife

- For right handed use
- Blade 18 x 100 mm
- With 0,5 mm strong snap off blades
- Blade guide out of metal
- Housing made out of plastic
- Two component handle



	L mm		g
907.2165	140,0	907.2166	90

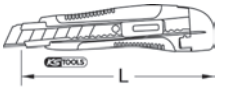
Universal snap off blade knife

- For right handed use
- With reinforcement eyelet
- Blade 9 x 80 mm
- With 0,4 mm strong snap off blades
- Blade guide out of metal
- Housing made out of plastic
- Two component handle

	L mm		g
907.2120	140,0	907.2168	50

Universal snap off blade knife

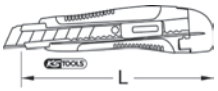
- For right handed use
- With reinforcement eyelet
- Blade 18 x 100 mm
- With 0,5 mm strong snap off blades
- Blade guide out of metal
- Housing made out of plastic
- Two component handle



	L mm		g
907.2135	170,0	907.2166	81

Universal snap off blade knife

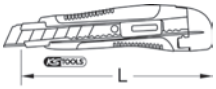
- For right handed use
- Blade 25 x 125 mm
- With 0,5 mm strong snap off blades
- Blade guide out of metal
- Housing made out of plastic
- Two component handle



	L mm		g
907.2180	220,0	907.2159	137

Comfort snap off blade knife

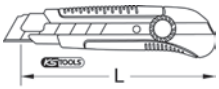
- For right handed use
- With reinforcement eyelet
- Blade 18 x 100 mm
- With 6 snap off blades 0.5 mm thick
- Blade guide out of metal
- With integrated blade magazine
- Housing made out of plastic
- Two component handle



	L mm		g
907.2175	180,0	907.2176	150

Comfort snap off blade knife

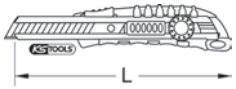
- For right handed use
- Blade 25 x 125 mm
- With 0,5 mm strong snap off blades
- Blade guide out of metal
- Knife adjustment using the rotary mechanism
- Housing made out of plastic
- Two component handle



	L mm		g
907.2158	180,0	907.2159	90

Comfort snap off blade knife

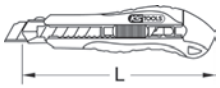
- For right handed use
- With reinforcement eyelet
- Blade 18 x 100 mm
- With 0,5 mm strong snap off blades
- Blade guide out of metal
- Knife adjustment using the rotary mechanism
- Housing made from metal
- Two component handle



	L mm		g
907.2141	180,0	907.2166	220

Comfort snap off blade knife

- For right handed use
- With reinforcement eyelet
- Blade 18 x 100 mm
- With 6 snap off blades 0.5 mm thick
- Blade guide out of metal
- With integrated blade magazine
- Knife adjustment using the rotary mechanism on the cutter head
- Housing made out of plastic
- Two component handle



	L mm		g
907.2195	160,0	907.2196	250

PEN KNIFE

Pen knife set

- For right and left handed use
- Includes 5 trapezoid blades
- With 0,5 mm strong trapezoid blades
- With rapid fastening
- Metal execution

			g
907.2172	2 pcs	Pen knife set	120

consists of:

		g
907.2173	Pen knife 97 mm	60
907.2174	Pen knife 155 mm	60

Folding knife with locking mechanism

- Teflon coated blade
- Blade fixator folded out
- Non slip handle with finger recesses
- Ideal for mechanics

	B mm	L1 mm	L2 mm	g
907.2105	25,0	193,0	78,0	100

Folding knife with locking mechanism

- Stainless steel blade partially serrated
- Blade fixator folded out
- With reinforcement eyelet
- Handle with fine wood inserts
- with belt clip
- Ideal for mechanics

	B mm	L1 mm	L2 mm	g
907.2190	28,0	220,0	85,0	183

Clasp knife with lock and belt cutter

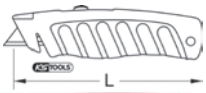
- Blade with coating
- Blade fixator folded out
- integrated belt cutter on the handle
- Glass breaker at handle end
- Easy and handy to use
- Anodised aluminium handle
- with belt clip
- ideal for mechanics, outdoor, camping etc.

	B mm	L1 mm	L2 mm	g
907.2220	26,0	210,0	85,0	150

HAND KNIFE WITH TRAPEZOIDAL BLADE

Professional universal knife

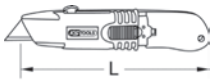
- For right and left handed use
- With reinforcement eyelet
- Trapezoid blade
- With 0,5 mm strong trapezoid blades
- With integrated foil and paper cutter
- Aluminium housing
- Two component handle



	L mm		g
907.2145	145,0	907.2206	100

Professional universal knife

- For right and left handed use
- With reinforcement eyelet
- Trapezoid blade
- With 0,5 mm strong trapezoid blades
- With integrated blade magazine
- Blade changed in seconds by the side mounted locking knob
- Aluminium housing



	L mm		g
907.2170	145,0	907.2206	90

Professional safety universal knife

- For right and left handed use
- With reinforcement eyelet
- Trapezoid blade
- With 0,5 mm strong trapezoid blades
- Automatic knife retraction
- Housing made from metal

	L mm		g
907.2140	145,0	907.2206	100

Two direction professional universal knife

- For right and left handed use
- With reinforcement eyelet
- Double sided insertable
- With 0,5 mm strong trapezoid blades
- With 0,5 mm strong hook blade
- With integrated blade magazine
- Blade changed in seconds by the side mounted locking knob
- Housing made from metal

	L mm			g
907.2155	165,0	907.2163	907.2206	220

Long knife for trim seals

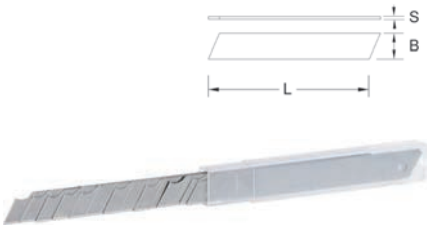
- For the use with conventional trapezoid blades and hook blades
- Includes a replacement blade in the handle
- Non slip handle
- Aluminium

	L mm		g
140.2284	230,0	907.2206	300
140.2290	470,0	907.2206	320
140.2291	620,0	907.2206	380

REPLACEMENT KNIFE BLADE

Snap off blades

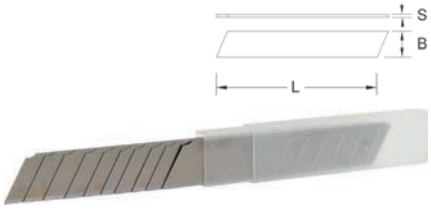
- For all standard cutter knives
- SK steel
- In the storage dispenser



	L mm	B mm	S mm	Content	g
907.2168	80,0	9,0	0,4	10	35

Snap off blades

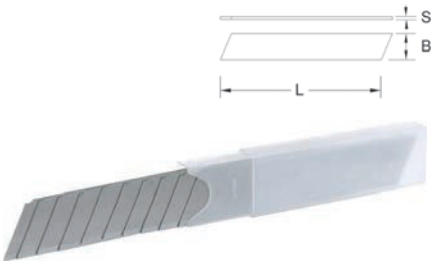
- For all standard cutter knives
- SK steel
- In the storage dispenser



	L mm	B mm	S mm	Content	g
907.2166	100,0	18,0	0,5	10	90

Snap off blades

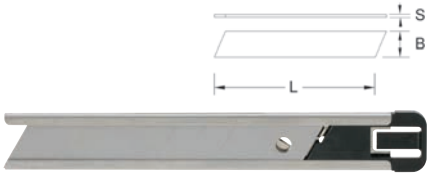
- For all standard cutter knives
- SK steel
- In the storage dispenser



	L mm	B mm	S mm	Content	g
907.2159	100,0	25,0	0,5	10	20

Snap off blade magazine

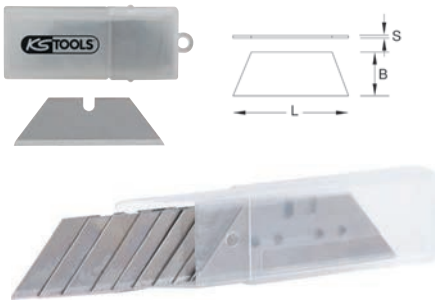
- For all standard cutter knives
- SK steel
- In an aluminium magazine



	L mm	B mm	S mm	Content	g
907.2176	100,0	18,0	0,5	6	70
907.2196	100,0	18,0	0,5	6	65

Trapezoid blades

- For all standard cutter knives
- SK steel
- In the storage dispenser



	L mm	Width mm	S mm	Content	g
907.2164	29,0	9,4	0,45	5	20
907.2206	53,0	19,0	0,45	10	60

Hook blades

- For all standard cutter knives
- SK steel
- In the storage dispenser

	L mm	B mm	S mm	Content	g
907.2163	54,0	19,0	0,63	10	35

SHEARS

Universal workshop shear

- Robust short shears
- With screw on blade
- Various applications
- Stainless steel blade

	L mm	S mm	g
118.0010	140,0	43,0	100

Universal workshop shear

- Robust short shears
- With screw on blade
- Various applications
- Stainless steel blade
- Two component handle

	L mm	S mm	g
118.0013	143,0	46,0	100

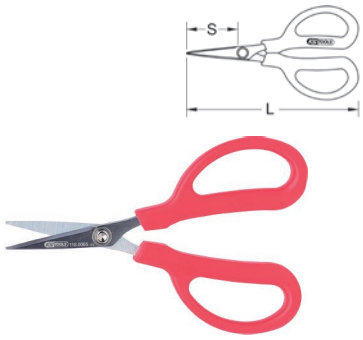
Universal workshop shear

- Robust short shears
- For various application areas
- With cable cutter
- Practical and very sharp
- Includes belt bag with cut protection

	L mm	S mm	g
118.0060	140,0	42,0	170

Universal Kevlar workshop shear

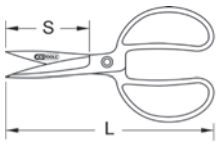
- Robust short shears
- Adjustable screw joint
- Ergonomic plastic handle
- Universal applications
- One component handle



	L mm	S mm	g
118.0065	140,0	45,0	130

Universal workshop shear

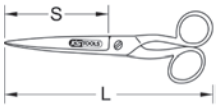
- Long cutting edge
- Adjustable screw joint
- With screw on blade
- With intergrated interlocking
- Stainless steel blade
- Two component handle



	L mm	S mm	g
118.0066	190,0	75,0	120

Universal workshop shear

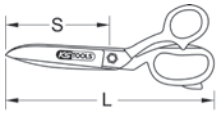
- Long cutting edge
- Adjustable screw joint
- Round gripping handle
- Nickel plated
- Stainless steel blade



	L mm	S mm	g
118.0078	200,0	105,0	110
118.0079	250,0	140,0	150

Universal workshop shear

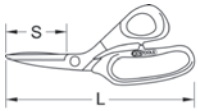
- Sturdy design
- Adjustable screw joint
- Handle black lacquer
- Polished cutting edges
- Stainless steel blade



	L mm	S mm	g
118.0076	200,0	100,0	200
118.0077	250,0	120,0	370

Textile shear

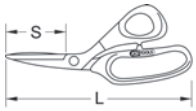
- Adjustable screw joint
- Stainless steel blade
- One component handle



	L mm	S mm	g
118.0011	205,0	65,0	80

Carpet shear

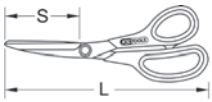
- Long cutting edge
- Adjustable screw joint
- Stainless steel blade
- One component handle



	L mm	S mm	g
118.0012	230,0	135,0	120

Universal workshop shear

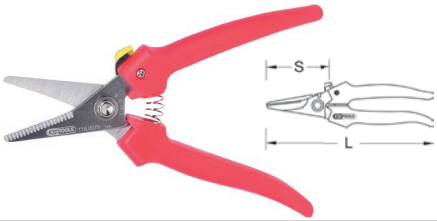
- Long, robust cutting edge
- With screw on blade
- Stainless steel blade
- Two component handle



	L mm	S mm	g
118.0067	220,0	90,0	130

Universal shear, serrated

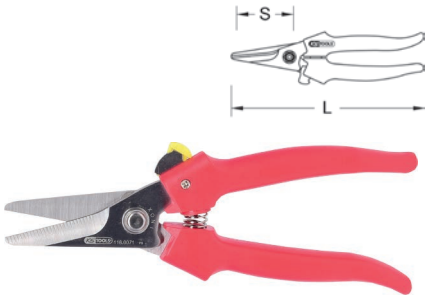
- Toothing for cutting adhesive weights
- Self opening
- Safety locking device
- Also for cutting gaskets
- Ergonomic moulded plastic handle



	Ø mm	L mm	S mm	g
118.0075	24,0	145,0	32,0	130

Universal workshop shear

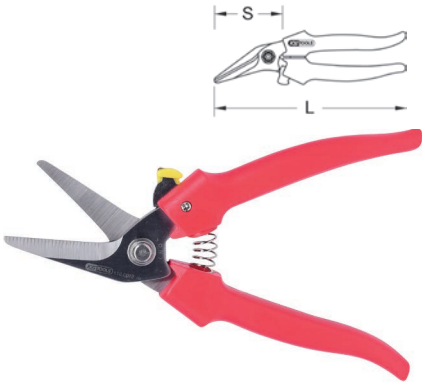
- Self opening
- Safety locking device
- Ergonomic moulded plastic handle
- Ideal for gaskets



	Ø mm	L mm	S mm	g
118.0071	35,0	190,0	42,0	148

Universal Workshop Shears, angled

- Self opening
- Safety locking device
- Practical and very sharp
- Angled design
- Ergonomic moulded plastic handle
- Ideal for seals and cables

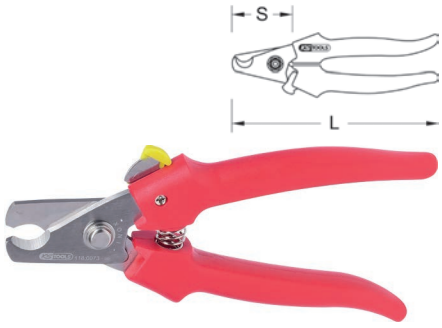


	Ø mm	L mm	S mm	g
118.0072	35,0	185,0	42,0	190

CABLE AND HOSE SHEARS

Universal cable shear

- Self opening
- Safety locking device
- Hardened blades with precision cut
- No bruising, slight shaping of the cable
- Ergonomic moulded plastic handle
- Ideal for soft cables
- Not suited for steel wire and hard pulled copper cables



	Ø mm	L mm	S mm	g
118.0073	10,0	165,0	50,0	180

Scissor set for hoses and plastic pipes

- ideal for angle-precise and clean cutting of rubber hoses, plastic pipes and various plastic profiles, such as cable ducts
- for rubber hoses with or without textile cover
- fittings for 16, 19 and 25 mm pipes included
- with prism for 90° profile
- with adjustable angle stop up to 45°
- In durable plastic storage case

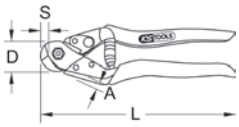
123.0075	7 pcs	Scissor set for hoses and plastic pipes	490

consists of:

123.0076	scissor-shaped with blades	290
123.0077	fitting for Ø 16 and 19 mm	30
123.0078	fitting for Ø 25 mm	78
123.0079	prism for 90° profile	63
123.0084	straight fitting	37
123.0086	angular stop	36
151.2604	Hexagon key wrench phosphate finish, short, 4mm	10

Steel wire shear

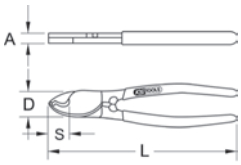
- For medium steel wire up to 4,7 mm
- With opening spring and safety catch
- Induction hardened cutting
- No splaying out of the wire
- With PVC dipped handle
- Special tool steel



	Ø mm	A mm	D mm	L mm	S mm	
118.0092	4,7	11,0	27,0	190,0	9,0	270

Cable cutter

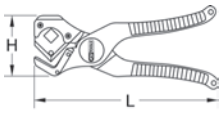
- Precision ground cutting edges
- Smooth cut
- For lead cable up to max. Ø 60 mm²
- With before and after cut
- For bruise free cutting of single and multi strand wire copper and aluminium cable
- Not suited for steel wire and hard drawn Copper cables
- Lower power usage
- With PVC dipped handle
- Special tool steel



	Ø mm	A mm	D mm	L mm	S mm	
118.0090	10,0	12,0	25,0	160,0	15,0	180
118.0091	15,0	13,0	29,0	210,0	20,0	320

Hose cutter

- Aluminium die cast body



	Ø mm	H mm	L mm		
222.2060	6,0 - 25,0	50,0	185,0	222.2061	300
222.2062	6,0 - 35,0	52,0	250,0	222.2061	452

Hose cutter

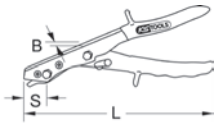
- Teflon coated blade
- Aluminium die cast body

	Ø mm	H mm	L mm		
222.2051	0 - 37,0	95,0	210,0	222.2052	80

METAL SHEARS

Sheet steel nibbler

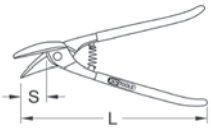
- Burr-free cut
- No deformation of the sheet metal
- Clean cutting edges
- With easy locking action
- With PVC dipped handle
- Cuts sheets up to 1.2mm
- Also ideal for aluminium, copper and plastic
- Special tool steel



	Ø mm	B mm	L mm	S mm	Replacement blades	
140.2175	1,2	14,0	265,0	3,0	140.2175-1	460

Ideal shears, right handed cut

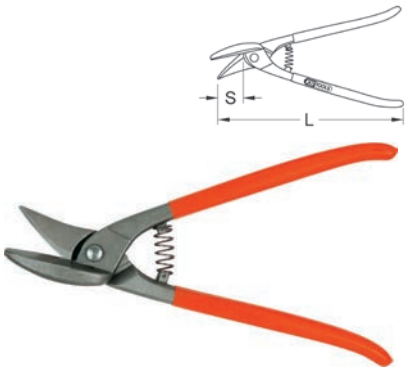
- Right hand cutting
- With spring
- Induction-hardened precision cutting
- With PVC dipped handle
- Cuts steel sheet up to 1,2 mm, stainless steel up to 0,7 mm
- Special tool steel



	Ø mm	L mm	S mm	
118.0145	1,2 (0,7)	280,0	38,0	630

Ideal shears, left handed cut

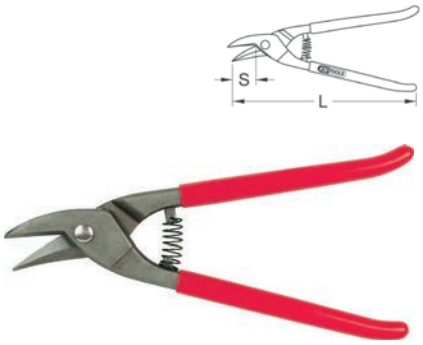
- Left handed cut
- With spring
- Induction-hardened precision cutting
- With PVC dipped handle
- Cuts steel sheet up to 1,2 mm, stainless steel up to 0,7 mm
- Special tool steel



	Ø mm	L mm	S mm	g
118.0146	1,2 (0,7)	280,0	38,0	540

Punching shears, right handed cut

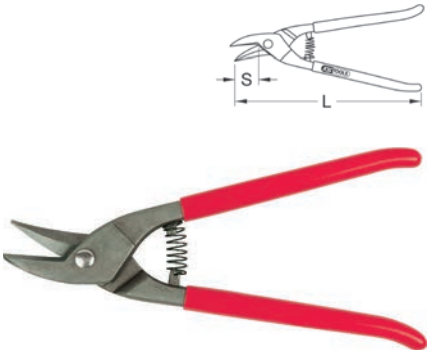
- Right hand cutting
- Induction-hardened precision cutting
- With PVC dipped handle
- Cuts steel sheet up to 1,2 mm, stainless steel up to 0,7 mm
- Special tool steel



	Ø mm	L mm	S mm	g
118.0147	1,2 (0,7)	250,0	42	455

Punching shears, left handed cut

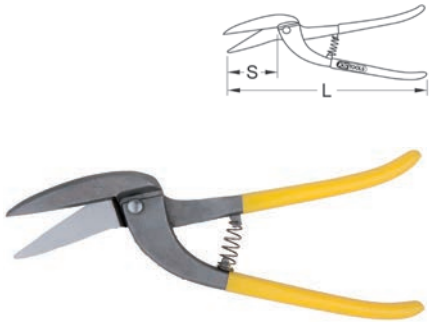
- Left handed cut
- Induction-hardened precision cutting
- With PVC dipped handle
- Cuts steel sheet up to 1,2 mm, stainless steel up to 0,7 mm
- Special tool steel



	Ø mm	L mm	S mm	g
118.0148	1,2 (0,7)	250,0	42	455

Pelican straight cut shears

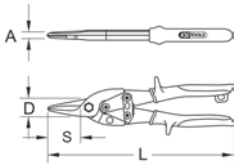
- Right hand cutting
- With spring
- Induction-hardened precision cutting
- With PVC dipped handle
- Cuts steel sheet up to 1,2 mm, stainless steel up to 0,7 mm
- Special tool steel



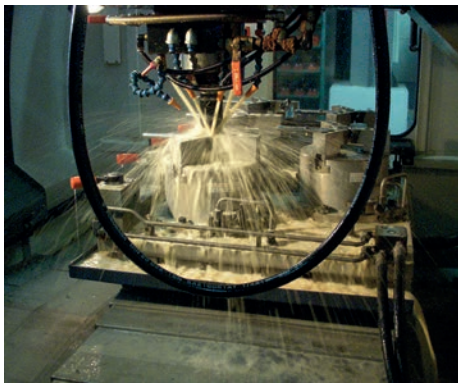
	Ø mm	L mm	S mm	g
118.0149	1,2 (0,7)	305,0	73,5	465

Mini metal shears, straight cut

- Straight cut
- Optimal for fine working
- Self opening handle
- With internal spring
- With easy locking action
- Induction-hardened precision cutting
- Two component handle
- Cuts sheet metal up to 1.2 mm
- Special tool steel

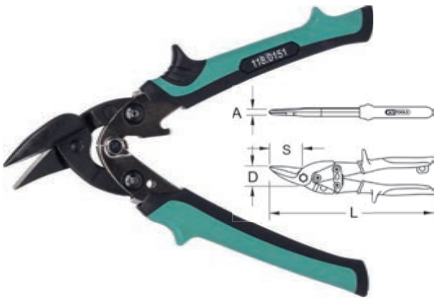


	Ø mm	A mm	D mm	L mm	S mm	g
118.0152	1,2	10,0	20,0	180,0	20,0	300



Mini metal shears, right handed cut

- Right hand cutting
- Optimal for fine working
- Self opening handle
- With internal spring
- With easy locking action
- Induction-hardened precision cutting
- Two component handle
- Cuts sheet metal up to 1.2 mm
- Special tool steel



	Ø mm	A mm	D mm	L mm	S mm	g
118.0151	1,2	17,0	33,0	180,0	20,0	300

Mini metal shears, left handed cut

- Left handed cut
- Optimal for fine working
- Self opening handle
- With internal spring
- With easy locking action
- Induction-hardened precision cutting
- Two component handle
- Cuts sheet metal up to 1.2 mm
- Special tool steel

	Ø mm	A mm	D mm	L mm	S mm	g
118.0153	1,2	20,0	25,0	180,0	20,0	300

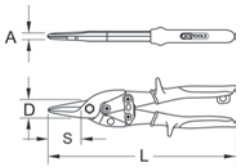
Mini straight and shape cutting snip set

- Self opening handle
- With internal spring
- With easy locking action
- Two component handle
- 25% power savings
- Left, right hand cutting & straight
- Smooth blades
- Induction-hardened precision cutting
- Cuts sheet metal up to 1.2 mm
- Chrome molybdenum

			g
118.0150	3 pcs	Mini straight and shape cutting snip set	800

Tin snips sheet metal shear, self opening, straight cut

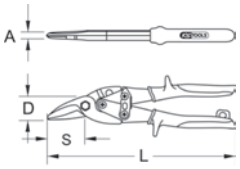
- Straight cut
- Self opening handle
- Serrated blades
- With internal spring
- With easy locking action
- Includes hanging loop
- Induction-hardened precision cutting
- Two component handle
- Cuts steel sheet up to 1,2 mm, stainless steel up to 0,7 mm
- Special tool steel



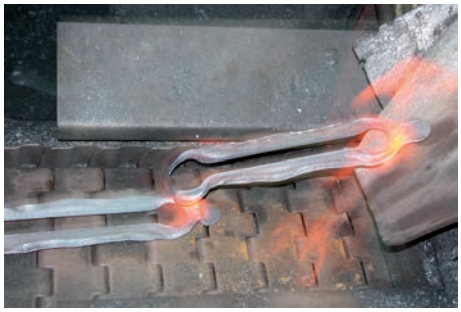
	Ø mm	A mm	D mm	L mm	S mm	g
118.0051	1,2 (0,7)	20,0	19,0	250,0	45,0	400

Tin snips sheet metal shear, self opening, right handed cut

- Right hand cutting
- Self opening handle
- Serrated blades
- With internal spring
- With easy locking action
- Includes hanging loop
- Induction-hardened precision cutting
- Two component handle
- Cuts steel sheet up to 1,2 mm, stainless steel up to 0,7 mm
- Special tool steel

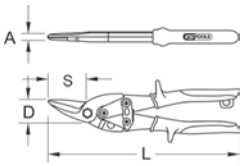


	Ø mm	A mm	D mm	L mm	S mm	g
118.0052	1,2 (0,7)	18,0	21,0	240,0	42,0	400



Tin snips sheet metal shear, self opening, left handed cut

- Left handed cut
- Self opening handle
- Serrated blades
- With internal spring
- With easy locking action
- Includes hanging loop
- Induction-hardened precision cutting
- Two component handle
- Cuts steel sheet up to 1,2 mm, stainless steel up to 0,7 mm
- Special tool steel



	Ø mm	A mm	D mm	L mm	S mm	g
118.0053	1,2 (0,7)	17,0	26,0	240,0	44,0	400

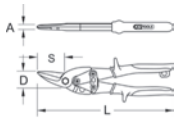
Tin snips sheet metal shear set

- Self opening handle
- Serrated blades
- With internal spring
- With easy locking action
- Includes hanging loop
- Induction-hardened precision cutting
- Two component handle
- Cuts steel sheet up to 1,2 mm, stainless steel up to 0,7 mm
- Special tool steel

			kg
118.0050	3 pcs	Tin snips sheet metal shear set	1,20

Template cutting shear with lever gearing, right handed cut

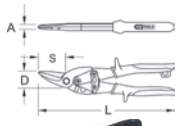
- Right hand cutting
- Self opening handle
- Serrated blades
- With internal spring
- With easy locking action
- Includes hanging loop
- Induction-hardened precision cutting
- Two component handle
- Cuts steel sheet up to 1.5 mm, stainless steel up to 1.0 mm
- Special tool steel



		Ø mm	A mm	D mm	L mm	S mm	g
118.0045	right	1,5 (1,0)	30,0	50,0	260,0	40,0	380

Template cutting shear with lever gearing, left handed cut

- Left handed cut
- Self opening handle
- Serrated blades
- With internal spring
- With easy locking action
- Includes hanging loop
- Induction-hardened precision cutting
- Two component handle
- Cuts steel sheet up to 1.5 mm, stainless steel up to 1.0 mm
- Special tool steel

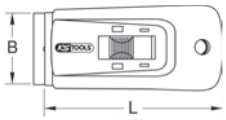


		Ø mm	A mm	D mm	L mm	S mm	g
118.0046	left	1,5 (1,0)	30,0	50,0	260,0	40,0	380

SCRAPERS

Scraper

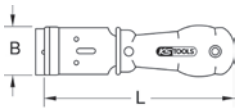
- Ideal for removing of stickers, seal and glue residues
- With easily interchangeable and retractable blades
- With reinforcement eyelet
- Scraper blade retractable via spline end for protection
- With metal housing



	B mm	L mm		g
907.2240	39,0	110,0	911.8127	90

Scraper

- Ideal for removing of stickers, seal and glue residues
- With easily interchangeable blades
- With reinforcement eyelet
- Soft grip handle



	Width mm	Length mm		
911.8126	38,0	160,0	911.8127	90

Replacement scraper blades

- For all standard scrapers
- SK steel
- In a carton

Application range: for the removal of labels on bumpers, front windscreens etc.

	Content	L mm	B mm	S mm	
911.8127	5	40,0	19,5	0,29	40

Gasket scraper set

- For removing seal residue, e.g. cylinder head seals
- With replacement blade
- Extra long execution for reaching inaccessible areas
- Angled blade head
- With ergonomic moulded two component handle
- Special tool steel

907.2280	2 pcs	Gasket scraper set	180

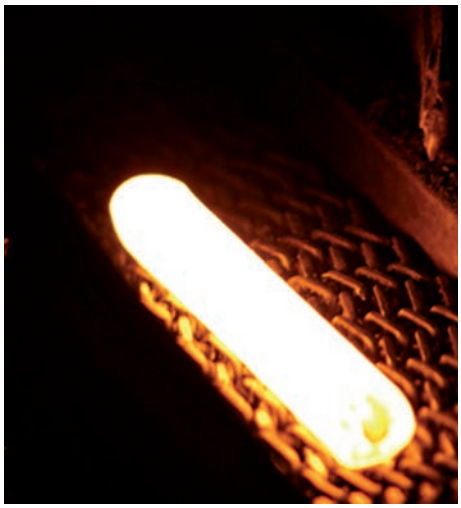
consists of:

907.2281	Scraper, 270 mm	155
907.2282	Scraper blade	5

Scraper

- With easily interchangeable and retractable blades
- With reinforcement eyelet
- With metal housing
- Two component handle

	Width mm	Length mm		
907.2242	40,0	145,0	911.8127	103



carbide scraper

- ideal for removing stubborn impurities, sealant residues and surface treatment
- for burnt on pads on the exhaust, brakes etc.
- with a very hard-wearing carbide cutting element
- a solid blade with two scraping edges
- Extremely long service life
- works as a compression and a pulling blade
- With an ergonomic, moulded, one component handle
- With reinforcement eyelet

	Length mm	Width mm	
907.2237	210,0	32,0	129

Scraper blades

- 5 replacement blades for seal scraper 907.2280
- For removing seal residue, e.g. cylinder head seals
- For angled blade head
- Special tool steel

	Content	Length mm	Width mm	Height mm	
907.2285	5	22,0	12,0	21,0	25

Replacement plastic scraper blades

- For all standard scrapers
- Particularly gentle on materials, since no scratches can be made
- Dual-sided adjustment
- Plastic
- In a carton

Application range: for the removal of labels on bumpers, front windscreens etc.

	Content	L mm	B mm	S mm	
911.8128	10	40,0	18,5	1,10	2

Pinch weld scraper set

- Ideal for removing of stickers, seal and glue residues
- Simple blade change by loosening the knurled thumb screw on the chuck
- With 10 straight scraper blades 16 mm
- Scraper with two component handle

907.2215	11 pcs	Pinch weld scraper set	100
1 x		907.2201	
10 x		16 mm	

Knife scraper set

- Ideal for removing of stickers, seal and glue residues
- Simple blade change by loosening the knurled thumb screw on the chuck
- Practical storage system for changeable blades
- Suitable for many different application due to the wide range of blades
- Scraper with two component handle
- Professional universal knife with aluminium housing
- In durable plastic storage case

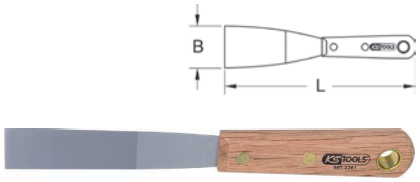
			kg
907.2200	27 pcs	Knife scraper set	0,60
1 x			
1 x			

Replacement blades:

	Width mm	Form	Content	g
907.2202	12,0	straight	10	20
907.2203	16,0	straight	10	20
907.2204	16,0	53° angled	10	20
907.2205	20,0	straight	10	40
907.2206	19,0	torpedo form	10	60

Stainless steel scraper

- With wooden handle
- Ground
- Polished
- With hanging hole
- Suitable for use at extremely low temperatures
- Extreme resistance to intergranular corrosion and oxidation
- Extremely long service life
- Autoclavable (heating of the tools to over 100°C to kill germs)
- Rust-proof and acid resistant
- Stainless steel

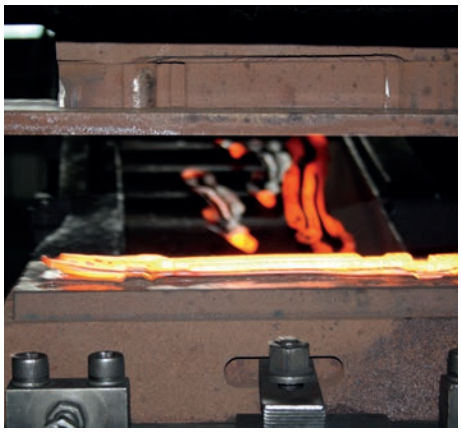


	L mm	B mm	g
907.2261	225,0	25,0	70
907.2262	225,0	38,0	70
907.2263	225,0	50,0	70
907.2264	225,0	63,0	70
907.2265	225,0	75,0	80

STAINLESS STEEL Chisel scraper

- Ideal for removing of stickers, seal and glue residues
- Also suitable for the removal and chiselling of plates or welding spots
- Continuous stainless steel blade that can be re sharpened
- With reinforcement eyelet
- With hammer cap on the handle
- With ergonomic moulded two component handle
- Suitable for use at extremely low temperatures
- Extreme resistance to intergranular corrosion and oxidation
- Extremely long service life
- Autoclavable (heating of the tools to over 100°C to kill germs)
- Rust-proof and acid resistant
- Stainless steel

	B mm	D mm	L mm	g
907.2211	32,0	1,2	190,0	160
907.2213	25,0	1,2	165,0	100
907.2212	32,0	2,5	190,0	160
907.2214	25,0	2,5	165,0	110



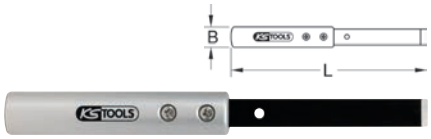
STAINLESS STEEL Chisel scraper set

- Ideal for removing of stickers, seal and glue residues
- Also suitable for the removal and chiselling of plates or welding spots
- Continuous stainless steel blade that can be re sharpened
- With reinforcement eyelet
- With hammer cap on the handle
- With ergonomic moulded two component handle
- Suitable for use at extremely low temperatures
- Extreme resistance to intergranular corrosion and oxidation
- Extremely long service life
- Autoclavable (heating of the tools to over 100°C to kill germs)
- Rust-proof and acid resistant
- Stainless steel

			kg
907.2210	4 pcs	32 x 1,2; 32 x 2,5; 25 x 1,2; 25 x 2,5 mm	0,58

Pinch weld scraper

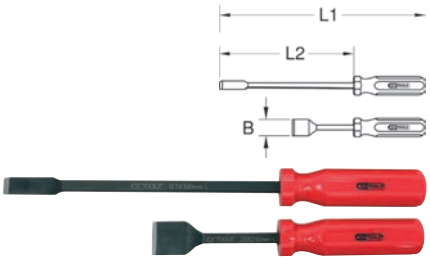
- Ideal for removing of stickers, seal and glue residues
- With interchangeable spring steel blade
- Working length max. 115 mm
- Aluminium handle



	B mm	L mm		g
140.2282	13,0	240,0	140.2283	200
140.2286	16,0	240,0	140.2287	200
140.2288	19,0	240,0	140.2289	200

Gasket scraper

- Ideal for removing of stickers, seal and glue residues
- Blades can be re-sharpened
- Blade 10° angled
- Extra long execution for reaching inaccessible areas
- For removing extremely stubborn gaskets and seals
- With ergonomic moulded one component handle



	B mm	L1 mm	L2 mm	g
907.2231	12,5	200,0	100,0	120
907.2232	25,0	200,0	100,0	140
907.2233	12,5	300,0	200,0	180
907.2234	25,0	300,0	200,0	200

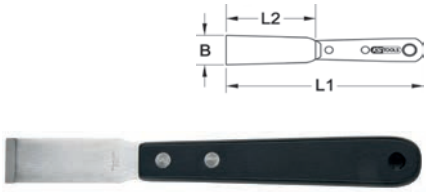
Gasket scraper set

- Ideal for removing of stickers, seal and glue residues
- Blades can be re-sharpened
- Blade 10° angled
- Extra long execution for reaching inaccessible areas
- For removing extremely stubborn gaskets and seals
- With ergonomic moulded one component handle

			kg	
907.2230	4 pcs	12,5 x 200; 25 x 200; 12,5 x 300; 25 x 300 mm	1,28	

Chisel scraper

- Ideal for removing stickers, seal and glue residues
- Also for removing extremely stubborn impurities and seal residue
- Blade 10° angled
- Blades can be re-sharpened
- Rust-proof and acid resistant
- Wooden handle



	B mm	L1 mm	L2 mm	g	
907.2266	15,0	175,0	50.0	42	
907.2267	20,0	185,0	60.0	50	
907.2268	30,0	190,0	65.0	57	

Chisel scraper set

- Ideal for removing stickers, seal and glue residues
- Also for removing extremely stubborn impurities and seal residue
- Blade 10° angled
- Blades can be re-sharpened
- Rust-proof and acid resistant
- Wooden handle

			g	
907.2270	3 pcs	Chisel scraper set	150	

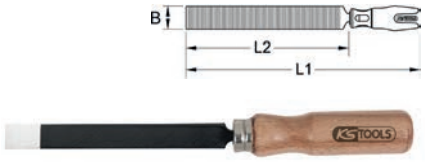
consists of:

		g	
907.2266	Chisel scraper, 15 x 175 mm	42	
907.2267	Chisel scraper, 20 x 185 mm	50	
907.2268	Chisel scraper, 30 x 190 mm	57	

WOOD SCRAPER

flat scraper

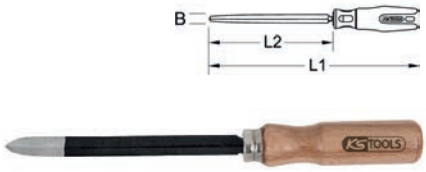
- Work areas ground
- crimped ferrule
- With wooden handle
- Special tool steel



	L1 mm	L2 mm	B mm	g	
907.2235	230,0	125,0	16,0	100	
907.2236	250,0	150,0	20,0	160	
907.2238	300,0	175,0	20,0	190	
150.3254	325,0	200,0	20,0	220	
150.3255	375,0	250,0	25,0	340	
150.3256	420,0	300,0	25,0	400	

Triangular full scraper

- Work areas ground
- crimped ferrule
- With wooden handle
- Special tool steel



	L1 mm	L2 mm	B mm	g	
150.2244	200,0	100,0	10,0	70	
150.3244	240,0	125,0	10,0	100	
150.2246	270,0	150,0	10,0	120	
150.3245	300,0	175,0	10,0	130	
150.2247	320,0	200,0	12,0	140	
150.3246	370,0	250,0	12,0	200	
150.3247	420,0	300,0	12,0	240	

Precision-mechanical triangular full scraper

- Work areas ground
- crimped ferrule
- With wooden handle
- Special tool steel

	L1 mm	L2 mm	B mm	g	
150.3257	160,0	75,0	9,0	30	

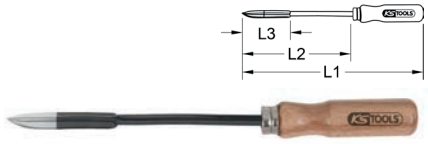
Triangular hollow scraper

- Work areas ground
- crimped ferrule
- With wooden handle
- Special tool steel

	L1 mm	L2 mm	B mm	g	
150.3258	200,0	100,0	14,0	90	
150.3259	230,0	125,0	14,0	90	
150.2241	270,0	150,0	14,0	120	
150.3262	300,0	175,0	15,0	120	
150.2242	320,0	205,0	15,0	160	
150.3264	380,0	250,0	15,0	170	
150.3265	410,0	300,0	16,0	190	

triangular bucket scraper

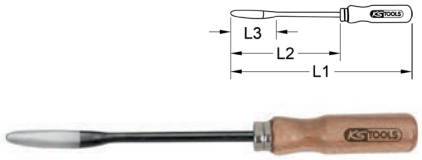
- Work areas ground
- crimped ferrule
- With wooden handle
- Special tool steel



	L1 mm	L2 mm	L3 mm	g	
150.2243	165,0	100,0	55,0	60	
150.3248	230,0	125,0	55,0	70	
150.3249	265,0	150,0	70,0	120	
150.3251	320,0	200,0	85,0	170	
150.3252	380,0	250,0	120,0	210	
150.3253	420,0	300,0	120,0	250	

Spoon scraper / Long scraper

- American form
- Work areas ground
- crimped ferrule
- With wooden handle
- Special tool steel



	L1 mm	L2 mm	L3 mm	g	
150.2248	270,0	150,0	70,0	120	
150.3241	320,0	200,0	85,0	170	
150.3242	365,0	250,0	120,0	200	
150.3243	420,0	300,0	120,0	250	

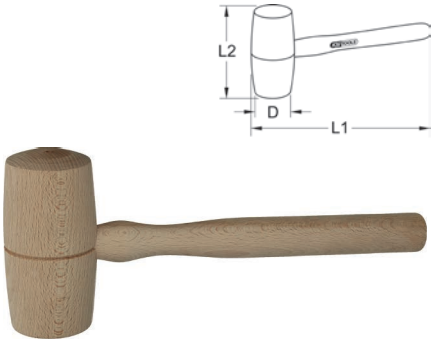
KS TOOLS®

Innovation is
our mission!

SOFT HEAD HAMMER

Wooden hammer

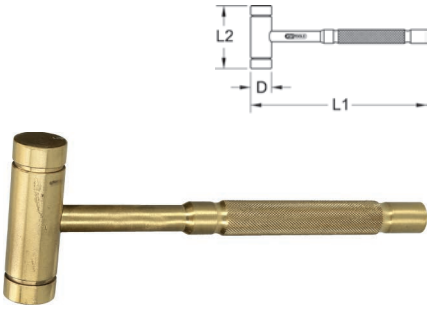
- DIN 7462
- With ash handle
- Made completely from ash



	g	D mm	L1 mm	L2 mm	
140.5231	100	40,0	240,0	90,0	160
140.5232	300	60,0	300,0	125,0	360
140.5233	500	80,0	360,0	145,0	560

Brass hammer

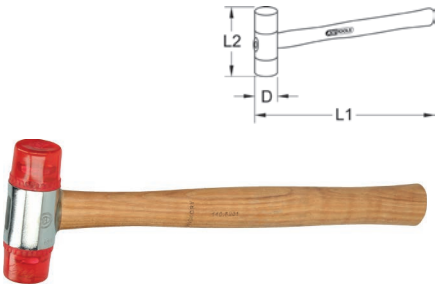
- Full brass execution
- Protective material



	g	D mm	L1 mm	L2 mm	
140.2081	800	26,0	230,0	83,0	800
140.2082	1400	31,0	260,0	100,0	1400

Plastic hammer

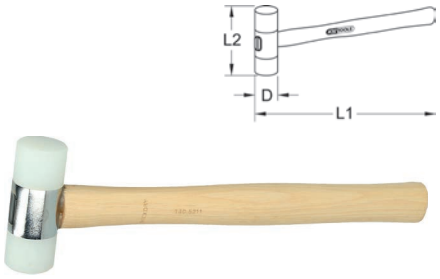
- With transparent head made from impact resistant cellulose acetate
- Impact heads are exchangeable (screw thread)
- With ash handle
- Ideal for hammering out and gentle sheet metal working



	g	D mm	L1 mm	L2 mm	Handle number		
140.5201	200	28,0	260,0	82,0	140.5301	140.5401	210
140.5202	340	35,0	300,0	95,0	140.5304	140.5404	350

Nylon hammer

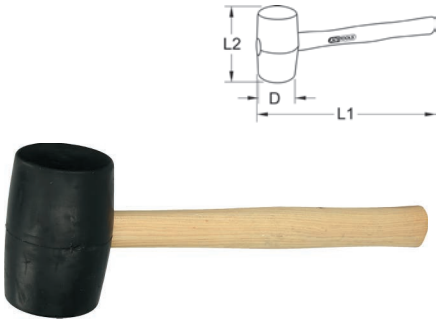
- With impact heads made out of impact resistant nylon
- shatterproof, break and wear-resistant
- With ash handle
- Ideal for hammering out and gentle sheet metal working



	g	D mm	L1 mm	L2 mm	Handle number		
140.5211	200	28,0	260,0	82,0	140.5301	140.5401	230
140.5212	340	35,0	300,0	95,0	140.5304	140.5404	450

Rubber hammer

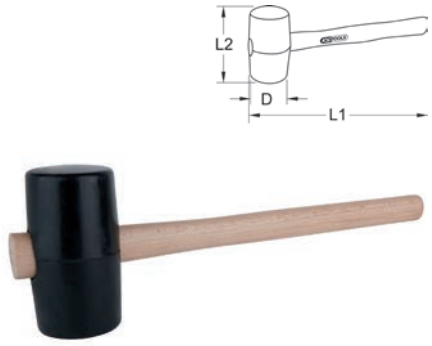
- DIN 5128
- With ash handle
- Hammer head made out of hard rubber



	g	D mm	L1 mm	L2 mm	Handle number		
140.5221	300	45,0	300,0	80,0	140.5304	140.5404	340
140.5222	500	58,0	310,0	95,0	140.5305	140.5405	560
140.5223	700	63,0	345,0	112,0	140.5306	140.5405	780

Rubber hammer

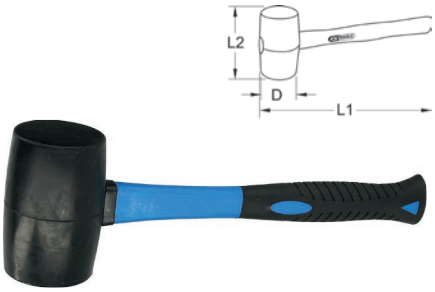
- DIN 5128
- With tapered ash inserted handle
- Hammer head made out of hard rubber



	g	D mm	L1 mm	L2 mm	
140.1230	425	60,0	340,0	110,0	525

Rubber hammer

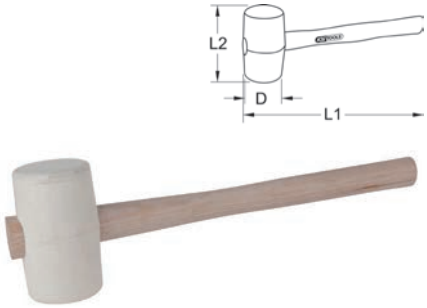
- DIN 5128
- With fibreglass handle
- Hammer head made out of hard rubber



	g	D mm	L1 mm	L2 mm	
140.1237	500	56,0	325,0	100,0	520

Rubber hammer

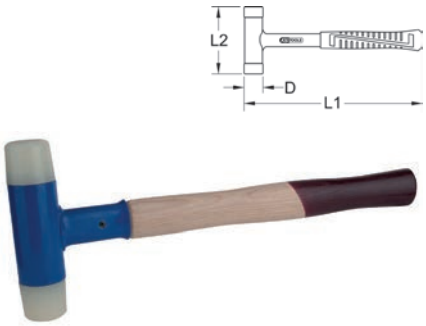
- DIN 5128
- With tapered ash inserted handle
- Hammer head made out of hard rubber
- With white rubber head



	g	D mm	L1 mm	L2 mm	
140.1234	270	55,0	300,0	115,0	300
140.1235	500	60,0	340,0	115,0	595
140.1236	735	65,0	380,0	130,0	855

Recoil free soft faced hammer

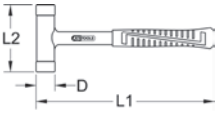
- With hickory handle
- Shock absorbing effect through steel shot in the head
- Up to 100% higher impact effect than normal Soft head hammers
- Shatterproof and wear resistant
- Polyamid heads interchangeable
- For safer working with less recoil



	g	D mm	L1 mm	L2 mm	
140.1215	350	32,0	330,0	120,0	480

Recoil free soft faced hammer

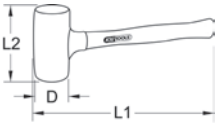
- With steel tube handle and plastic handle
- Shock absorbing effect through steel shot in the head
- Up to 100% higher impact effect than normal Soft head hammers
- Shatterproof and wear resistant
- Polyamid heads interchangeable
- For safer working with less recoil



	g	D mm	L1 mm	L2 mm	head,spare	g
140.5270	360	25,0	270,0	105,0	140.5280	360
140.5271	480	30,0	290,0	105,0	140.5281	480
140.5272	590	35,0	295,0	110,0	140.5282	590
140.5273	850	40,0	300,0	120,0	140.5283	850
140.5274	990	45,0	305,0	120,0	140.5284	990
140.5275	1110	50,0	310,0	125,0	140.5285	1110
140.5276	1290	55,0	325,0	135,0	140.5286	1290
140.5277	1670	60,0	335,0	140,0	140.5287	1670

Recoil free soft faced hammer

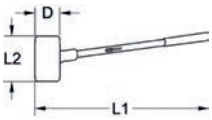
- Polyurethane fiberglass composite
- Serrated surface for secure grip
- Free of sparks due to rubber cover
- Special absorbing effect through steel shot in the hammer head
- Substantially higher blow effect than in conventional hammering
- For safer working with less recoil



	g	D mm	L1 mm	L2 mm	g
140.5252	400	40,0	270,0	81,0	480
140.5254	560	40,0	305,0	100,0	640
140.5255	645	42,0	325,0	100,0	725
140.5256	860	50,0	342,0	118,0	860
140.5257	1270	56,0	355,0	118,0	1350
140.5258	1720	65,0	370,0	135,0	1800

Recoil free soft faced hammer, extra large

- Polyurethane fiberglass composite
- Rubber handle for better grip
- Special absorbing effect through steel shot in the hammer head
- Substantially higher blow effect than in conventional hammering
- For safer working with less recoil

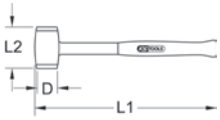


	g	D mm	L1 mm	L2 mm	kg
140.5259	5500	105,0	890,0	180,0	5,76

INSULATED SOFT-HEAD HAMMERS

Soft-face hammer with protective insulation

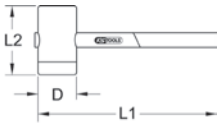
- Insulated to IEC 60900
- Shock absorbing effect through steel shot in the head
- Shatterproof and wear resistant
- Polyamid heads interchangeable
- For safer working with less recoil



	D mm	L1 mm	L2 mm	head,spare		g
117.1126	25,0	300,0	105,0	117.1128	1000V	560
117.1127	35,0	310,0	115,0	117.1129	1000V	790

Plastic hammer with protective insulation

- Insulated to IEC 60900
- Made from plastic
- Without metal parts

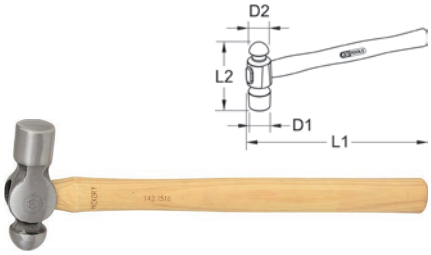


	D mm	L1 mm	L2 mm		g
117.1131	55,0	300,0	82,0	1000V	325

FITTERS HAMMER

Pin hammer

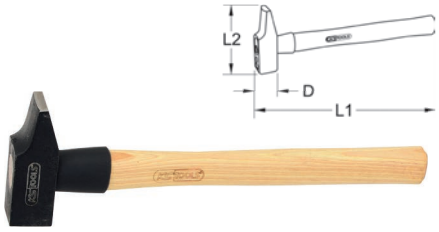
- With hickory handle
- Additional head security
- Extremely durable



	g	D1 mm	D2 mm	L1 mm	L2 mm	Handle number		g
142.1508	225	20,0	20,0	290,0	80,0	142.1510	140.5403	300
142.1512	340	28,0	25,0	310,0	91,0	142.1520	140.5403	420
142.1516	450	30,0	27,0	350,0	102,0	142.1530	140.5405	550
142.1524	680	38,0	32,0	365,0	116,0	142.1540	140.5405	800
142.1532	900	40,0	35,0	380,0	130,0	142.1550	140.5405	1100

Fitters hammer, French form

- With ash handle
- Forged execution
- Impact area surfaces inductively hardened
- Head and edge areas polished ground
- Rounded edges
- Head coating made from structured powder baked lacquer
- Hammer head made out of high quality special steel



	g	D mm	L1 mm	L2 mm	Handle number		g
142.1030	250	25,0	300,0	81,5	142.5301	140.5401	365
142.1032	300	28,0	282,0	87,0	142.5302	140.5402	390
142.1050	400	32,0	320,0	92,0	142.5302	140.5402	525
142.1033	500	32,0	305,0	100,0	142.5325	140.5403	560
142.1080	800	40,0	350,0	110,0	142.5303	140.5403	1055
142.1100	1000	42,0	360,0	120,0	142.5303	140.5403	1140
142.1150	1500	50,0	380,0	138,0	142.5304	140.5404	1957
142.1034	2000	57,0	385,0	140,0	142.5304	140.5404	2150
142.1250	2500	60,0	380,0	150,0	142.5304	140.5404	2730

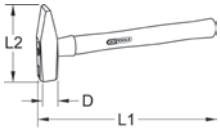
Fitters hammer, French form

- With fibreglass handle
- Forged execution
- Impact area surfaces inductively hardened
- Head and edge areas polished ground
- Rounded edges
- Head coating made from structured powder baked lacquer
- Hammer head made out of high quality special steel

	g	D mm	L1 mm	L2 mm	g
142.1031	250	25,0	290,0	81,5	415
142.1051	400	32,0	310,0	92,0	575
142.1081	800	40,0	338,0	110,0	1160
142.1101	1000	42,0	340,0	117,0	1270
142.1151	1500	50,0	405,0	138,0	2140

Fitters hammer

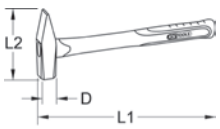
- DIN 1041
- With hickory handle
- Forged execution
- Impact area surfaces inductively hardened
- Head and edge areas polished ground
- Rounded edges
- Head coating made from structured powder baked lacquer
- Hammer head made out of high quality special steel



	g	D mm	L1 mm	L2 mm	Handle number		
142.1310	100	15,0	260,0	82,0	142.5305	140.5405	180
142.1320	200	19,0	280,0	95,0	142.5306	140.5405	283
142.1330	300	23,0	300,0	105,0	142.5307	140.5405	350
142.1315	400	25,0	320,0	112,0	142.5307	140.5405	530
142.1350	500	27,0	320,0	118,0	142.5308	140.5406	590
142.1316	600	29,0	330,0	122,0	142.5308	140.5406	750
142.1380	800	33,0	350,0	130,0	142.5309	140.5406	920
142.1400	1000	36,0	360,0	135,0	142.5310	140.5406	1268
142.1318	1500	42,0	380,0	145,0	142.5318	140.5408	1750
142.1319	2000	47,0	400,0	155,0	142.5318	140.5408	2250

Fitters hammer

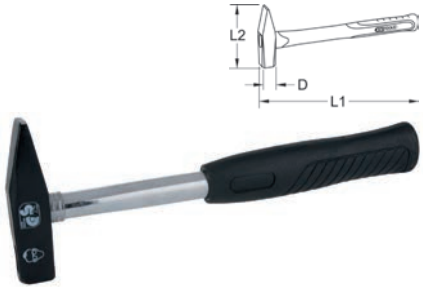
- DIN 1041
- With fibreglass handle
- Forged execution
- Impact area surfaces inductively hardened
- Head and edge areas polished ground
- Rounded edges
- Head coating made from structured powder baked lacquer
- Hammer head made out of high quality special steel



	g	D mm	L1 mm	L2 mm	
142.1311	100	15,0	260,0	82,0	180
142.1321	200	19,0	280,0	95,0	280
142.1331	300	23,0	300,0	105,0	500
142.1402	400	25,0	320,0	112,0	530
142.1351	500	27,0	320,0	118,0	590
142.1403	600	29,0	330,0	122,0	750
142.1381	800	33,0	350,0	130,0	920
142.1401	1000	36,0	360,0	135,0	1325
142.1404	1500	42,0	380,0	145,0	1880
142.1405	2000	47,0	400,0	155,0	2100

Fitters hammer

- DIN 1041
- With steel tube handle
- Forged execution
- Impact area surfaces inductively hardened
- Head and edge areas polished ground
- Rounded edges
- Head coating made from structured powder baked lacquer
- Hammer head made out of high quality special steel



	g	D mm	L1 mm	L2 mm	
142.1221	350	20,0	300,0	100,0	580

CLAW HAMMERS

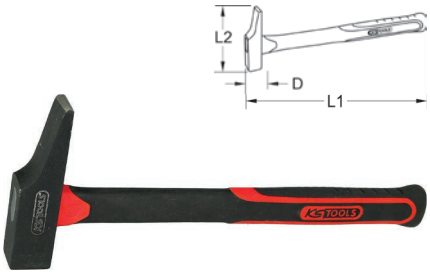
Claw hammer, French form

- With lacquered ash handle
- Forged execution
- Impact area surfaces inductively hardened
- Head and edge areas polished ground
- Rounded edges
- Head coating made from structured powder baked lacquer
- Hammer head made out of high quality special steel

	g	D mm	L1 mm	L2 mm	Handle number		
142.2020	200	20,0	270,0	92,0	142.5311	140.5401	300
142.2045	500	30,0	310,0	121,0	142.5313	140.5402	600

Claw hammer, French form

- With fibreglass handle
- Forged execution
- Impact area surfaces inductively hardened
- Head and edge areas polished ground
- Rounded edges
- Head coating made from structured powder baked lacquer
- Hammer head made out of high quality special steel



	g	D mm	L1 mm	L2 mm	
142.2021	200	20,0	285,0	92,0	270
142.2033	250	22,0	290,0	107,0	320
142.2046	500	30,0	328,0	121,0	600

ELECTRICIANS HAMMER

Electricians hammer, French form

- With lacquered ash handle
- Forged execution
- Impact area surfaces inductively hardened
- Head and edge areas polished ground
- Rounded edges
- Head coating made from structured powder baked lacquer
- Hammer head made out of high quality special steel

	g	D mm	L1 mm	L2 mm	Handle number		
142.4020	200	18,0	260,0	128,0	142.5314	140.5401	260

Electricians hammer, French form

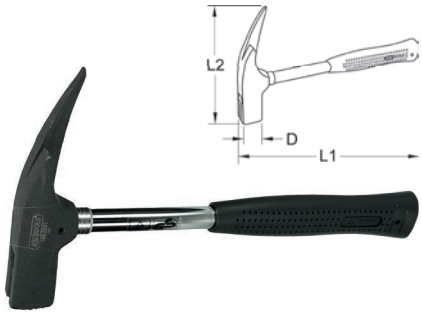
- With fibreglass handle
- Forged execution
- Impact area surfaces inductively hardened
- Head and edge areas polished ground
- Rounded edges
- Head coating made from structured powder baked lacquer
- Hammer head made out of high quality special steel

	g	D mm	L1 mm	L2 mm	
142.4030	200	18,0	285,0	126,0	250

SCABBLING PICK

Scabbling pick

- With steel tube handle and plastic handle
- Forged execution
- Impact area surfaces inductively hardened
- Hammer head made out of high quality special steel
- Head coating made from structured powder baked lacquer
- Pane with nail puller
- With nail holder



	g	D mm	L1 mm	L2 mm	
140.2001	600	30,0	320,0	170,0	835

Scabbling pick, magnetic

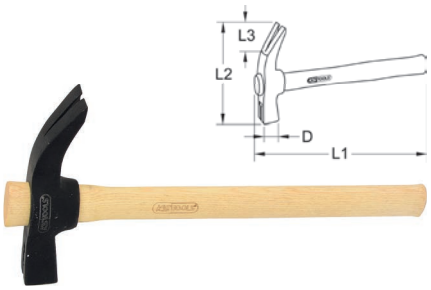
- With steel tube handle and plastic handle
- Forged execution
- Impact area surfaces inductively hardened
- Hammer head made out of high quality special steel
- Head coating made from structured powder baked lacquer
- Pane with nail puller
- With nail holder

	g	D mm	L1 mm	L2 mm	
140.2002	600	30,0	320,0	170,0	900

CLAW HAMMER

Claw hammer

- With tapered ash inserted handle
- Forged execution
- Impact area surfaces inductively hardened
- Head and edge areas polished ground
- Rounded edges
- Hammer head made out of high quality special steel
- Head coating made from structured powder baked lacquer
- Pane with nail puller
- With nail holder



	g	D mm	L1 mm	L2 mm	L3 mm	Handle number	
142.2008	700	30,0	370,0	172,0	48,0	140.5315	860

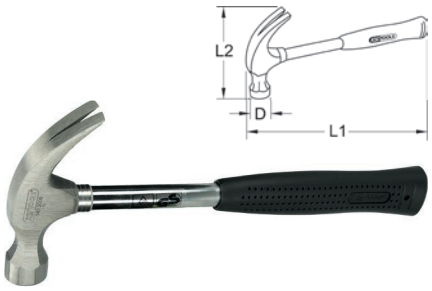
Claw hammer

- With tapered fiberglass handle
- Forged execution
- Impact area surfaces inductively hardened
- Head and edge areas polished ground
- Rounded edges
- Hammer head made out of high quality special steel
- Head coating made from structured powder baked lacquer
- Pane with nail puller
- With nail holder

	g	D mm	L1 mm	L2 mm	L3 mm	Handle number	
142.2010	700	28,0	370,0	172,0	48,0	142.5315	920

Claw hammer American form

- Steel tube handle and plastic handle
- Forged execution
- Impact area surfaces inductively hardened
- Head and edge areas polished ground
- Rounded edges
- Hammer head made out of high quality special steel
- Head coating made from structured powder baked lacquer
- Pane with nail puller



	g	D mm	L1 mm	L2 mm	
140.2006	600	30,0	320,0	133,0	850

BRICK HAMMER

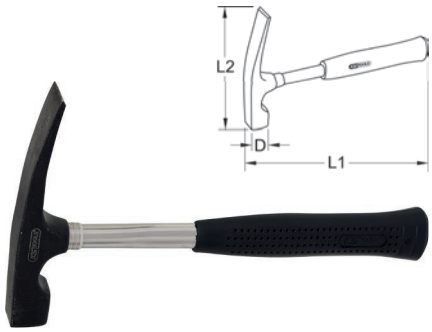
Brick hammer, Geneva form

- With tapered ash inserted handle
- Forged execution
- Impact area surfaces inductively hardened
- Head coating made from structured powder baked lacquer
- Hammer head made out of high quality special steel

	g	D mm	L1 mm	L2 mm	Handle number	
140.2015	750	24,0	370,0	250,0	140.5336	900

Brick hammer, Rhenish form

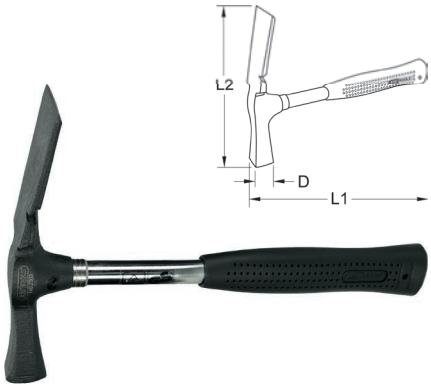
- With steel tube handle and plastic handle
- Forged execution
- Impact area surfaces inductively hardened
- Hammer head made out of high quality special steel
- Head coating made from structured powder baked lacquer
- Extremely strong and robust



	g	D mm	L1 mm	L2 mm	
140.2030	500	25,0	270,0	178,0	800

Brick hammer, Berlin form

- With steel tube handle and plastic handle
- Forged execution
- Impact area surfaces inductively hardened
- Hammer head with nail puller
- Head coating made from structured powder baked lacquer
- Hammer head made out of high quality special steel



	g	D mm	L1 mm	L2 mm	
140.2003	600	27,0	270,0	203,0	940

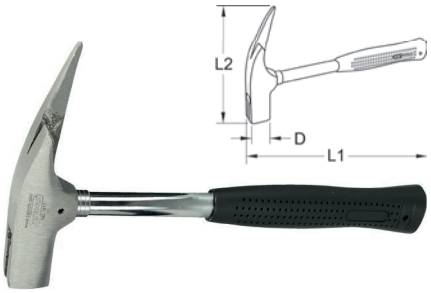
Brick hammer, American form

- With ash handle
- Forged execution
- Impact area surfaces inductively hardened
- Hammer head made out of high quality special steel
- Head coating made from structured powder baked lacquer
- Extremely strong and robust

	g	D mm	L1 mm	L2 mm		
142.1417	600	27,0	320,0	163,0	140.5406	800

Concrete shell hammer, magnetic

- With steel tube handle and plastic handle
- Forged execution
- for scraping off concrete residues
- Impact area surfaces inductively hardened
- Hammer head made out of high quality special steel
- Head coating made from structured powder baked lacquer
- Pane with nail puller
- With nail holder



	g	D mm	L1 mm	L2 mm	kg
142.1411	600	28,0	310,0	170,0	0,83

CLUB HAMMER

Club hammer

- DIN 6475
- With lacquered ash handle
- Forged execution
- Impact area surfaces inductively hardened
- Surfaces polished ground
- Rounded edges
- Head coating made from structured powder baked lacquer
- Hammer head made out of high quality special steel

	g	D mm	L1 mm	L2 mm	Handle number		kg
142.5100	1000	40,0	260,0	95,0	142.5316	140.5405	1,10
142.5125	1250	43,0	260,0	100,0	142.5317	140.5405	1,36
142.5150	1500	45,0	280,0	110,0	142.5318	140.5406	1,60
142.5111	2000	50,0	300,0	120,0	142.5318	140.5406	2,10

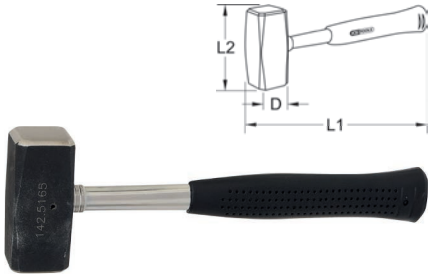
Club hammer

- DIN 6475
- With fibreglass handle
- Forged execution
- Impact area surfaces inductively hardened
- Surfaces polished ground
- Rounded edges
- Head coating made from structured powder baked lacquer
- Hammer head made out of high quality special steel

	g	D mm	L1 mm	L2 mm	kg
142.5101	1000	40,0	260,0	95,0	1,13
142.5126	1250	43,0	260,0	100,0	1,36
142.5151	1500	45,0	280,0	110,0	1,65

Club hammer

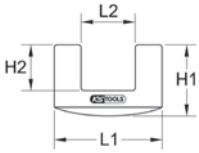
- DIN 6475
- With steel tube handle and plastic handle
- Forged execution
- Impact area surfaces inductively hardened
- Surfaces polished ground
- Rounded edges
- Head coating made from structured powder baked lacquer
- Hammer head made out of high quality special steel



	g	D mm	L1 mm	L2 mm	kg
142.5165	1000	40,0	260,0	95,0	1,18
142.5166	1250	43,0	260,0	100,0	1,43

Rubber cap for club hammer

- Rubber cap for club hammer to DIN 6475

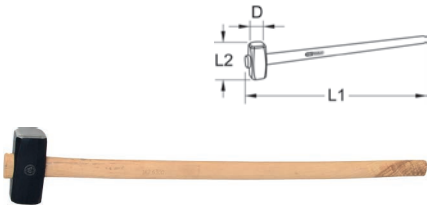


	H1 mm	H2 mm	L1 mm	L2 mm	g
140.2075	55,0	27,0	72,0	40,0	400
140.2076	55,0	29,0	72,0	42,0	400
140.2077	55,0	33,0	72,0	44,0	400

SLEDGE HAMMER

Sledge hammer

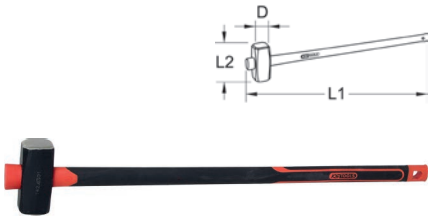
- Forged execution
- With tapered ash inserted handle
- Impact area surfaces inductively hardened
- Surfaces polished ground
- Rounded edges
- Head coating made from structured powder baked lacquer
- Hammer head made out of high quality special steel



	g	D mm	L1 mm	L2 mm	Handle number	kg
142.6300	3000	58,0	900,0	138,0	140.5330	3,50
142.6400	4000	64,0	900,0	148,0	140.5330	4,44
142.6500	5000	70,0	900,0	158,0	140.5340	5,44

Sledge hammer

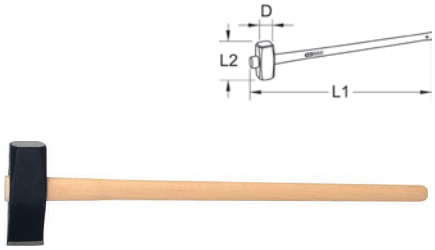
- With tapered fiberglass handle
- Forged execution
- Impact area surfaces inductively hardened
- Surfaces polished ground
- Rounded edges
- Head coating made from structured powder baked lacquer
- Hammer head made out of high quality special steel



	g	D mm	L1 mm	L2 mm	Handle number	kg
142.6301	3000	58,0	900,0	138,0	142.5323	3,80
142.6401	4000	64,0	900,0	148,0	142.5323	4,80
142.6501	5000	70,0	900,0	158,0	142.5332	5,80

Chipping hammer

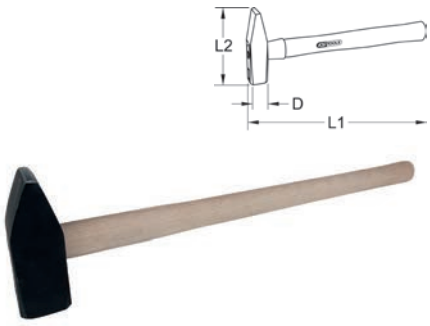
- With tapered inserted beech handle
- Forged execution
- Impact area surfaces inductively hardened
- Head and edge areas polished ground
- Rounded edges
- Head coating made from structured powder baked lacquer
- Hammer head made out of high quality special steel



	g	D mm	L1 mm	L2 mm	Handle number	kg
140.6510	3000	55,0	900,0	148,0	140.5330	4,00

Sledge hammer

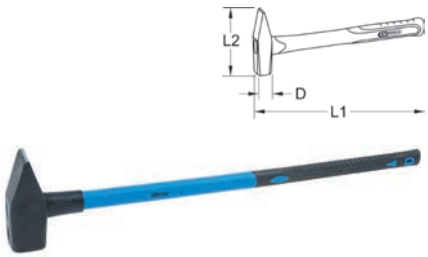
- DIN 1042
- With ash handle
- Forged execution
- Impact area surfaces inductively hardened
- Surfaces polished ground
- Rounded edges
- Head coating made from structured powder baked lacquer
- Hammer head made out of high quality special steel



	g	D mm	L1 mm	L2 mm	kg
142.1223	3000	54,0	600,0	162,0	3,30
142.1226	5000	70,0	795,0	180,0	5,64
142.1227	8000	80,0	895,0	220,0	8,80
142.1228	10000	85,0	900,0	225,0	10,72

Sledge hammer

- With fibreglass handle
- Forged execution
- Impact area surfaces inductively hardened
- Surfaces polished ground
- Rounded edges
- Head coating made from structured powder baked lacquer
- Hammer head made out of high quality special steel

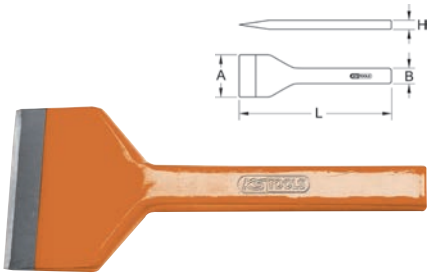


	g	D mm	L1 mm	L2 mm	kg
142.1210	5000	70,0	880,0	180,0	6,00

BOLSTER CHISEL

Bolster chisel

- Flat oval form
- Quenched and tempered
- Blade can be resharpened
- Shaft gold lacquer
- Carbon manganese silicon steel

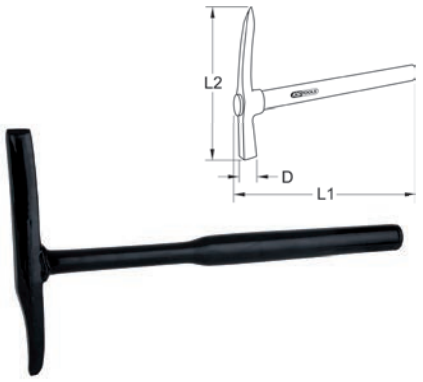


	L mm	A mm	H mm	B mm	g
162.0431	200,0	60,0	15,0	18,0	500
162.0432	200,0	80,0	15,0	20,0	600
162.0433	220,0	100,0	18,0	22,0	750
162.0434	220,0	120,0	18,0	22,0	900

CHIPPING HAMMERS

Chipping hammer

- DIN 5133
- With steel tube handle



	D mm	L1 mm	L2 mm	g
140.1220	15,0	295,0	155,0	360

WELDING CHIPPING HAMMER

Welding chipping hammer

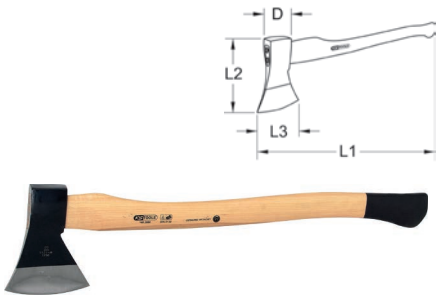
- With ash handle
- Forged execution
- Impact area surfaces inductively hardened
- Pane polished ground
- Rounded edges
- Head coating made from structured powder baked lacquer
- Hammer head made out of high quality special steel

	g	D mm	L1 mm	L2 mm	Handle number		g
140.2170	300	20,0	300,0	165,0	140.5303	140.5404	320

AXES AND HATCHETS

Wood axe

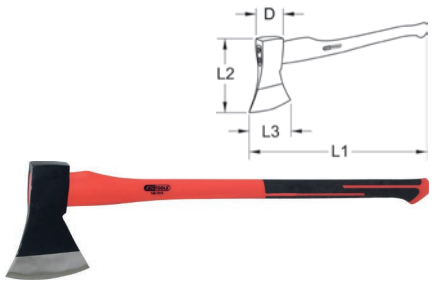
- DIN 5131
- With cambered hickory handle
- Handle with round double fixed wedges
- Forged execution
- Blade polished ground
- Head coating made from structured powder baked lacquer
- Axe head made out of high quality special steel



	g	D mm	L1 mm	L2 mm	L3 mm	Handle number		kg
140.2066	1250	60,0	700,0	185,0	130,0	140.2069	140.5405	1,80

Axe

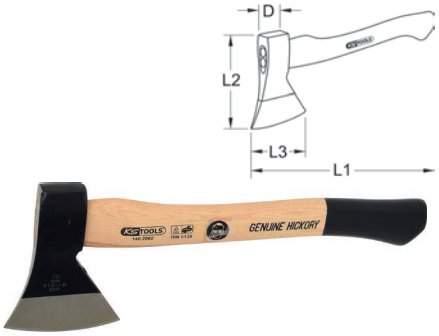
- DIN 7287
- Forged execution
- Blade polished ground
- Head coating made from structured powder baked lacquer
- Axe head made out of high quality special steel
- With fibreglass handle



	g	D mm	L1 mm	L2 mm	L3 mm	kg
140.1213	1800	60,0	690,0	185,0	137,0	2,71

Hand axe

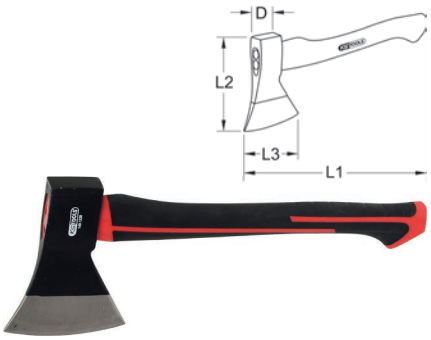
- DIN 5131
- With cambered hickory handle
- Handle with round double fixed wedges
- Forged execution
- Blade polished ground
- Head coating made from structured powder baked lacquer
- Axe head made out of high quality special steel



	g	D mm	L1 mm	L2 mm	L3 mm	Handle number		
140.2062	600	40,0	350,0	15,0	105,0	140.2067	140.5403	800
140.2063	800	45,0	380,0	17,0	115,0	140.2068	140.5405	1040

Hand axe

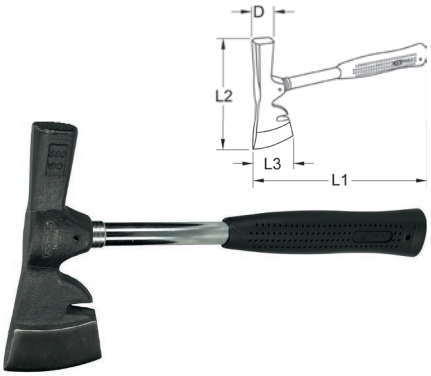
- DIN 5131
- With fibreglass handle
- Forged execution
- Blade polished ground
- Head coating made from structured powder baked lacquer
- Axe head made out of high quality special steel



	g	D mm	L1 mm	L2 mm	L3 mm	
140.1239	800	40,0	350,0	150,0	110,0	1232

Plasterers axe

- With steel tube handle and plastic handle
- Forged execution
- Impact area surfaces inductively hardened
- Blade polished ground, serrated hammer head
- Hammer head with nail puller
- Head coating made from structured powder baked lacquer
- Hammer head made out of high quality special steel



	g	D mm	L1 mm	L2 mm	L3 mm	
140.2004	600	27,0	330,0	180,0	70,0	900

Plasterers axe with fibreglass handle

- With tapered fiberglass handle
- Forged execution
- Impact area surfaces inductively hardened
- Blade polished ground, serrated hammer head
- Hammer head with nail puller
- Head coating made from structured powder baked lacquer
- Hammer head made out of high quality special steel

	g	D mm	L1 mm	L2 mm	L3 mm	
142.2013	600	28,0	310,0	180,0	22,0	860

PANEL BEATING HAMMERS

Bodywork serrated hammer

- For hammering out the bodywork area
- High-quality design
- Work area coarse
- Special tool steel

	Length mm	head length mm	square dim.mm	
140.2204	325,0	60,0	30 x 45 mm	330

Bodywork standard hammer, slightly curved

- For hammering out the bodywork area
- High-quality design
- Work area ground and lightly arched
- Special tool steel

	Length mm	head length mm	square dim.mm	
140.2209	325,0	60,0	30 x 45 mm	330

Bodywork standard hammer, sharply curved

- For hammering out the bodywork area
- High-quality design
- Work area ground and strongly arched
- Special tool steel

	Length mm	head length mm	square dim.mm	
140.2319	325,0	60,0	30 x 45 mm	360

Bodywork dinging hammer set

- For hammering out the car body
- High-quality design
- Optimum composition of rough and curved faces
- Work areas ground
- Special tool steel
- In durable plastic storage case

			kg	
140.2200	3 pcs	Bodywork dinging hammer set	1,02	

consists of:

140.2204	Bodywork serrated hammer, 30x45mm	330	
140.2209	Bodywork standard hammer, slightly curved, 30x45mm	330	
140.2319	Bodywork standard hammer, sharply curved, 30x45mm	360	

Panel beaters hammer

- With ash handle
- Forged execution
- Impact area surfaces inductively hardened
- Head and edge areas polished ground
- Rounded edges
- Head coating made from structured powder baked lacquer
- Hammer head made out of high quality special steel

	g	D mm	L1 mm	L2 mm	Handle number			
140.4003	400	30,0	310,0	118,0	140.5304	140.5404	560	

Panel beater's serrated hammer, round/tip

- For reworking repaired areas, distortion-free
- Stresses are removed from the plate using a special profile in the impact area
- For tightening with a round, rough serrated head
- Fine face curved for accurate hammering out
- Special tool steel

	Length mm	head length mm	Ø round side mm	Tip width mm	
140.2109	280,0	120,0	40,0	20,0	460

Wing dinging hammer

- Ideal for hammering out the wings
- Extra heavy execution
- Fine face curved for accurate hammering out
- Safe and easy use
- Work areas ground
- With hickory handle
- Special tool steel

	Length mm	head length mm	square dim.mm	Tip width mm	kg
140.2461	380,0	220	30 x 38 mm	35	1,31

Aluminium bodywork pick hammer curved head, round/tip

- For hammering out aluminium car body panels
- Planishing hammer with a round, slightly domed face
- Fine conical face for accurate hammering out
- Polished surface
- Aluminium

	Length mm	head length mm	Ø round side mm	g
700.1489	300,0	140,0	40,0	110

Aluminium bodywork flat pick hammer curved head, round/flat tip

- For hammering out aluminium car body panels
- Planishing hammer with a round, slightly domed face
- Fine face for accurate hammering out
- Polished surface
- Aluminium

	Length mm	head length mm	Ø round side mm	Tip width mm	g
700.1490	300,0	140,0	40,0	20,0	140

Panel beaters pick hammer straigh head, round/flat point

- Planishing hammer with a round, slightly domed face
- Fine face for accurate hammering out
- Work areas ground
- Special tool steel

	Length mm	head length mm	Ø round side mm	Tip width mm	g
140.2136	325,0	140,0	40,0	19,0	460

Panel beaters pick hammer straight head, round/pointed

- Planishing hammer with a round, slightly domed face
- Fine conical face for accurate hammering out
- Work areas ground
- Special tool steel

	Length mm	head length mm	Ø round side mm	g
140.2137	325,0	140,0	40,0	460

Panel beaters pick hammer straight head, flat/pointed

- Planishing hammer with a round, slightly domed face
- Fine face curved for accurate hammering out
- Work areas ground
- Special tool steel

	Length mm	head length mm	Ø round side mm	Tip width mm	g
140.2131	325,0	140,0	40,0	19,0	460

Aluminium bodywork standard hammer curved head, round/square

- For hammering out aluminium car body panels
- Simple hammer with a flat, angular face and a round, slightly arched face
- Polished surface
- Aluminium

	Length mm	head length mm	Ø round side mm	square dim.mm	g
700.1491	300,0	100,0	40,0	38 x 38 mm	148

Panel beaters hammer, round/square

- Bumping hammer with strong arched faces
- Work areas ground
- Special tool steel

	Length mm	head length mm	Ø round side mm	square dim.mm	g
140.2130	325,0	105,0	30,0	26 x 26 mm	390

Panel beaters hammer, small round/square

- Simple hammer with a flat, angular face and a round, slightly arched face
- Work areas ground
- Special tool steel

	Length mm	head length mm	Ø round side mm	square dim.mm	g
140.2138	325,0	100,0	30,0	28 x 28 mm	390

Panel beaters serrated hammer, round/square

- For forming with an square, finely serrated face
- For streching with a round, slightly domed face
- Round work surfaces ground
- Special tool steel

	Length mm	head length mm	Ø round side mm	square dim.mm	g
140.2132	325,0	100,0	40,0	38 x 38 mm	490

Panel beaters hammer rounded head, small round/square

- Simple hammer with a flat, angular face and a round, slightly arched face
- Work areas ground
- Special tool steel

	Length mm	head length mm	Ø round side mm	square dim.mm	g
140.2135	325,0	100,0	30,0	27 x 27 mm	390

Panel beaters standard hammer, large round/square

- Planishing hammer with a square and round, flat face
- Work areas ground
- Special tool steel

	Length mm	head length mm	Ø round side mm	square dim.mm	g
140.2133	325,0	100,0	40,0	39 x 39 mm	420

Panel beaters standard hammer curved head, large round/square

- Simple hammer with a flat, angular face and a round, slightly arched face
- Work areas ground
- Special tool steel

	Length mm	head length mm	Ø round side mm	square dim.mm	g
140.2134	325,0	100,0	40,0	38 x 38 mm	490

Panel beaters serrated hammer fine, round/square

- For forming with an square, rough serrated face
- For streching with a round, slightly domed face
- Round work surfaces ground
- Special tool steel

	Length mm	head length mm	Ø round side mm	square dim.mm	g
140.2139	325,0	100,0	40,0	38 x 38 mm	490

Aluminium hammer

- With hickory handle
- Aluminium head
- Protective material

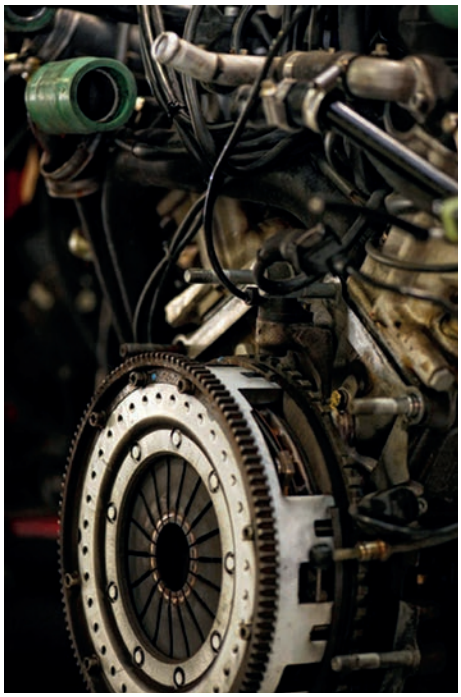
	g	Ø mm	Length mm	head length mm	Handle number		g
140.2121	280	30,0	310,0	145,0	140.2122	140.2123	380

REPLACEMENT HANDLES

Replacement handle, ash and hickory

- Without wedge

	L mm	Handle form	Handle style	g
140.5301	260,0	round key	ash	10
140.5304	300,0	round key	ash	160
140.5305	310,0	round key	ash	60
140.5306	330,0	round key	ash	60
142.5301	300,0	round key	ash	10
142.5302	320,0	round key	ash	160
142.5303	350,0	round key	ash	120
142.5304	380,0	round key	ash	160
142.5311	270,0	round key	ash	100
142.5312	290,0	round key	ash	100
142.5313	310,0	round key	ash	100
142.5314	260,0	round key	ash	60
142.5316	260,0	round key	ash	100
142.5317	260,0	round key	ash	110
142.5318	280,0	round key	ash	100
140.5315	370,0	beveled	ash	160
140.5320	260,0	beveled	ash	130
140.5321	260,0	beveled	ash	60
140.5322	280,0	beveled	ash	130
140.5323	300,0	beveled	ash	130
140.5330	700,0	beveled	ash	440
140.5331	890,0	beveled	ash	200
140.5336	370,0	beveled	ash	200
140.5340	900,0	beveled	ash	850
140.2067	350,0	round key	hickory	200
140.2068	380,0	round key	hickory	240
140.2069	700,0	round key	hickory	550
142.1510	290,0	round key	hickory	80
142.1520	310,0	round key	hickory	110
142.1530	350,0	round key	hickory	120
142.1540	365,0	round key	hickory	190
142.1550	380,0	round key	hickory	240
142.5305	260,0	round key	hickory	80
142.5306	280,0	round key	hickory	83
142.5307	300,0	round key	hickory	50
142.5308	320,0	round key	hickory	90
142.5309	350,0	round key	hickory	120
142.5310	360,0	round key	hickory	268



Replacement handles fiberglass

- Without wedge
- Tapered style form

	L mm	Handle form	Handle style	g
142.5315	370,0	beveled	fiberglas	220
142.5319	280,0	beveled	fiberglas	150
142.5332	900,0	beveled	fiberglas	800
142.5323	900,0	beveled	fiberglas	1010

ROUND KEY, LOCKING DEVICE

Round key, locking device

- For hammer and axe handles
- With barbed angel
- Aluminium

	D1 mm	D2 mm	g
140.5402	8,0	10,0	10
140.5403	9,0	10,0	10
140.5404	10,0	12,0	10
140.5405	12,0	14,0	10
140.5406	14,0	16,0	10
140.5408	17,0	23,0	10

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SAFE TOOLS FOR EVERY JOB!

The specialist tools are specially designed for the mechanics of electric and hybrid vehicles. They are manufactured and individually tested in accordance with the BGV A3 regulations (VBG-4) by KS Tools. Some systems in these vehicles have up to 500 volts running through them. This is enough volts to cause serious bodily harm when working with normal tools and can also lead to death.

The KS Tools specialist tools for hybrid and electric vehicles are manufactured to the most recent and international regulations from high-quality materials and offer maximum protection for every user!

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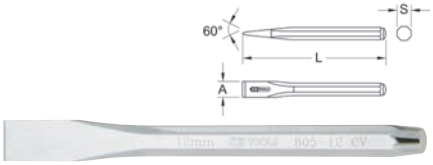
our mission!

FLAT CHISELS

Flat chisel

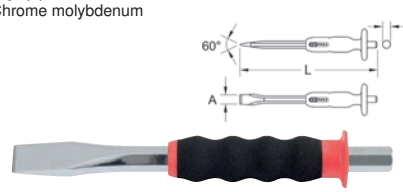
- 8-point
- Quenched and tempered
- Mirror polished
- Highly polished
- Chrome vanadium



	L mm	A mm	S mm	Handle number	g
156.0162	130,0	12,0	9,0	-	70

Flat chisel with hand grip

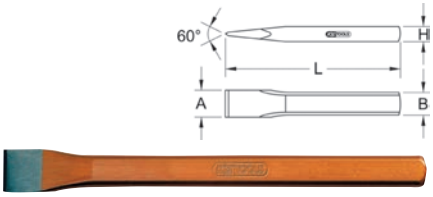
- 8-point
- Quenched and tempered
- Tip can be re-sharpened
- Highly polished
- Chrome molybdenum



	L mm	A mm	S mm	g
156.0241	210,0	20,0	14,0	273

Flat chisel

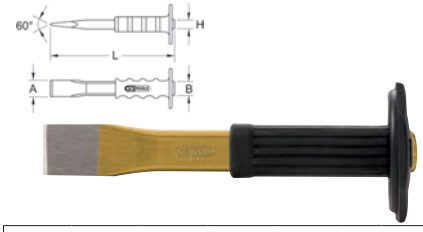
- DIN 6453
- Flat oval form
- Blade can be resharpened
- Quenched and tempered
- Shaft with gold coated lacquer
- Highly polished
- Chrome molybdenum



	L mm	A mm	B mm	H mm	Handle number	g
162.0101	100,0	18,0	14,0	9,0	-	80
162.0102	125,0	18,0	14,0	9,0	-	100
162.0103	150,0	21,0	17,0	11,0	-	180
162.0104	175,0	24,0	20,0	12,0	-	280
162.0105	200,0	28,0	23,0	13,0	162.0442	380
162.0106	250,0	28,0	23,0	13,0	162.0442	500
162.0107	300,0	31,0	23,0	13,0	162.0442	600

Flat chisel with hand grip

- DIN 6453
- Flat oval form
- Blade can be resharpened
- Quenched and tempered
- Shaft with gold coated lacquer
- Highly polished
- Chrome molybdenum



	L mm	A mm	B mm	H mm	g
162.0113	250,0	28,0	23,0	13,0	500
162.0114	300,0	31,0	23,0	13,0	600

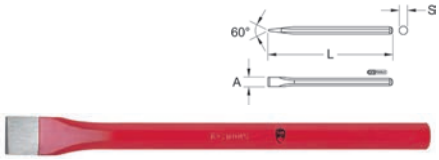
Flat chisel

- 8-point
- Quenched and tempered
- Blade can be resharpened
- Shaft with gold coated lacquer
- Highly polished
- Chrome molybdenum

	L mm	A mm	S mm	Handle number	g
162.0211	125,0	13,0	10,0	-	80
162.0212	150,0	15,0	12,0	-	120

Flat chisel

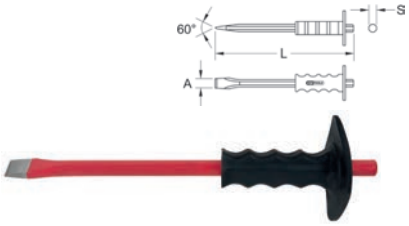
- 8-point
- Quenched and tempered
- Blade can be resharpened
- Shaft with powder coated lacquer
- Carbon manganese silicon steel



	L mm	A mm	S mm	Handle number	g
156.0531	250,0	24,0	16,0	162.0445	380
156.0532	300,0	24,0	16,0	162.0445	440
156.0533	350,0	24,0	16,0	162.0445	520
156.0534	400,0	27,0	18,0	162.0446	820

Flat chisel with hand grip

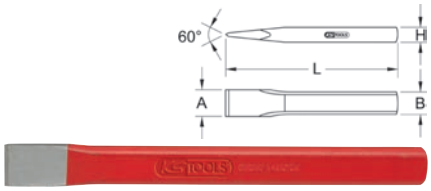
- 8-point
- Quenched and tempered
- Blade can be resharpened
- Shaft with powder coated lacquer
- Carbon manganese silicon steel



	L mm	A mm	S mm	g
156.0535	250,0	24,0	16,0	520
156.0536	300,0	24,0	16,0	650
156.0537	350,0	24,0	16,0	710

Flat chisel

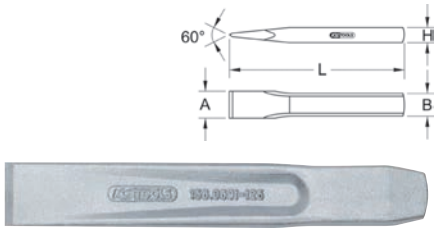
- Flat oval form
- Quenched and tempered
- Blade can be resharpened
- Shaft with powder coated lacquer
- Chrome molybdenum



	L mm	A mm	B mm	H mm	Handle number	g
156.0585	150,0	15,0	15,0	9,0	-	180
156.0586	200,0	25,0	23,0	13,0	162.0442	320
156.0587	250,0	25,0	23,0	13,0	162.0442	500
156.0588	300,0	25,0	23,0	13,0	162.0442	600

Flat chisel

- Flat oval form
- Blade can be resharpened
- Quenched and tempered
- Highly polished
- Chrome molybdenum



	L mm	A mm	B mm	H mm	Handle number	g
156.0691	125,0	19,0	13,0	8,0	-	81
156.0692	150,0	21,0	14,0	9,0	-	136
156.0693	200,0	27,0	17,0	11,0	-	244
156.0694	250,0	31,0	19,0	12,0	-	411

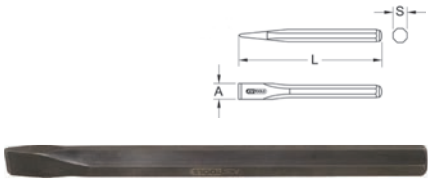
Flat chisel set

- Flat oval form
- Blade can be resharpened
- Quenched and tempered
- Highly polished
- Chrome molybdenum

			g
156.0690	4 pcs	125x19 - 150x21 - 200x27 - 250x31 mm	970

Flat chisel

- 6 point
- Heavy execution
- Dimensionally stable 25 mm six point shaft
- Ideal for preparation working
- For the preparation of truck rivets and welds
- Chiseling of rusted bolts and nuts is possible
- Special tool steel



	L mm	A mm	S mm	kg
450.0026	400,0	30,0	25,0	1,20
450.0027	600,0	30,0	25,0	2,64

Flat chisel set, heavy duty for commercial vehicle

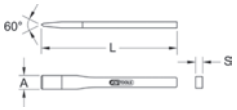
- Heavy execution
- Dimensionally stable 25 mm six point shaft
- For the preparation of truck rivets and welds
- Ideal for preparation working
- Chiseling of rusted bolts and nuts is possible
- Ideally suited for commercial vehicles
- Special tool steel

			kg
450.0025	2 pcs	400 - 600 mm	3,97

TILER'S FLAT CHISELS

Tilers flat chisel

- 4 point
- Quenched and tempered
- Blade can be resharpened
- Shaft with gold coated lacquer
- Highly polished
- Chrome molybdenum

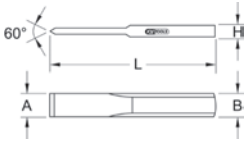


	L mm	A mm	S mm	Handle number	g
162.0311	100,0	10,0	8,0	-	40

SLITTING CHISEL

Slitting chisel

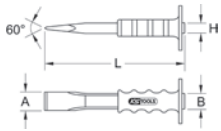
- Flat oval form
- Quenched and tempered
- Blade can be resharpened
- Shaft with gold coated lacquer
- Highly polished
- Chrome molybdenum



	L mm	A mm	B mm	H mm	Handle number	g
162.0131	230,0	26,0	26,0	7,0	162.0441	285

Slitting chisel with hand grip

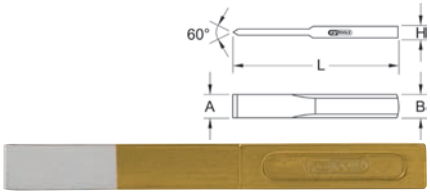
- Flat oval form
- Quenched and tempered
- Blade can be resharpened
- Shaft with gold coated lacquer
- Highly polished
- Chrome molybdenum



	L mm	A mm	B mm	H mm	g
162.0141	230,0	26,0	26,0	7,0	285

Panel beaters slitting chisel, extra thin

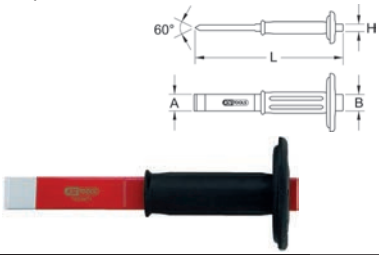
- Flat oval form
- Extra thin
- Blade can be resharpened
- Quenched and tempered
- Shaft with gold coated lacquer
- Highly polished
- Chrome molybdenum



	L mm	A mm	B mm	H mm	Handle number	g
162.0421	240,0	26,0	26,0	7,0	162.0443	260

Slitting chisel with hand grip

- Flat oval form
- Extra thin
- Blade can be resharpened
- Quenched and tempered
- Shaft with gold coated lacquer
- Highly polished
- Chrome molybdenum

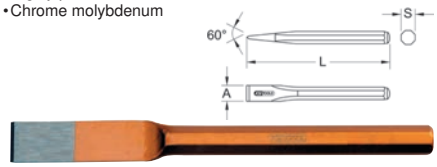


	L mm	A mm	B mm	H mm	g
162.0471	240,0	26,0	26,0	7,0	370

JOINTING CHISELS

Jointing chisel

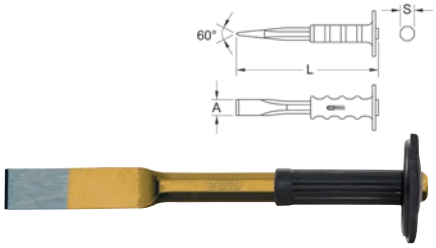
- 8-point
- Quenched and tempered
- Blade can be resharpened
- Shaft with gold coated lacquer
- Highly polished
- Chrome molybdenum



	L mm	A mm	S mm	Handle number	g
162.0151	250,0	25,0	18,0	162.0446	420
162.0152	250,0	100,0	20,0	162.0447	685

Jointing chisel with hand grip

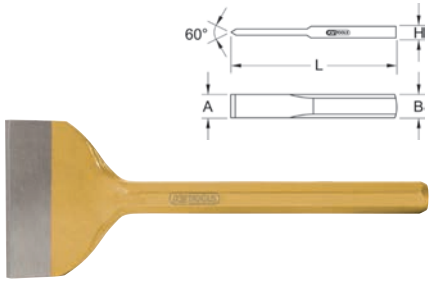
- 8-point
- Quenched and tempered
- Blade can be resharpened
- Shaft with gold coated lacquer
- Highly polished
- Chrome molybdenum



	L mm	A mm	S mm	g
162.0161	250,0	25,0	18,0	420
162.0162	250,0	100,0	20,0	685

Jointing chisel

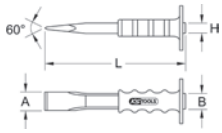
- Flat oval form
- Quenched and tempered
- Blade can be resharpened
- Shaft with gold coated lacquer
- Highly polished
- Chrome molybdenum



	L mm	A mm	B mm	H mm	Handle number	g
162.0171	250,0	50,0	23,0	13,0	162.0442	500
162.0172	250,0	60,0	26,0	13,0	162.0444	550
162.0173	250,0	70,0	26,0	13,0	162.0444	580

Jointing chisel with hand grip

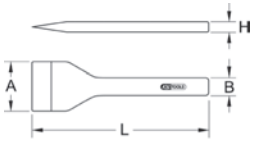
- Flat oval form
- Quenched and tempered
- Blade can be resharpened
- Shaft with gold coated lacquer
- Highly polished
- Chrome molybdenum



	L mm	A mm	B mm	H mm	g
162.0181	250,0	50,0	23,0	13,0	500
162.0182	250,0	60,0	26,0	13,0	550
162.0183	250,0	70,0	26,0	13,0	580

Jointing chisel

- Flat oval form
- Quenched and tempered
- Blade can be resharpened
- Shaft powder coated lacquer
- Carbon manganese silicon steel

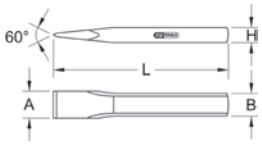


	L mm	A mm	B mm	H mm	Handle number	g
156.0570	205,0	50,0	24,0	12,0	-	300
156.0571	215,0	70,0	24,0	12,0	-	400

BRICKLAYERS CHISEL

Bricklayers chisel

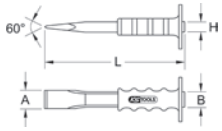
- DIN 7254 form A
- Flat oval form
- Blade can be resharpened
- Quenched and tempered
- Shaft with gold coated lacquer
- Highly polished
- Chrome molybdenum



	L mm	A mm	B mm	H mm	Handle number	g
162.0191	200,0	27,0	20,0	12,0	162.0441	310
162.0192	250,0	27,0	20,0	12,0	162.0441	400
162.0193	300,0	31,0	23,0	13,0	162.0442	580
162.0194	350,0	31,0	23,0	13,0	162.0442	720
162.0195	400,0	31,0	23,0	13,0	162.0442	780
162.0196	500,0	33,0	26,0	13,0	162.0444	1160
162.0197	600,0	33,0	26,0	13,0	162.0444	1400
162.0198	800,0	33,0	26,0	13,0	162.0444	1860
162.0199	1000,0	33,0	26,0	13,0	162.0444	2360

Bricklayers chisel with hand grip

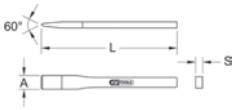
- DIN 7254 form A
- Flat oval form
- Blade can be resharpened
- Quenched and tempered
- Shaft with gold coated lacquer
- Highly polished
- Chrome molybdenum



	L mm	A mm	B mm	H mm	g
162.0202	250,0	27,0	20,0	12,0	400
162.0203	300,0	31,0	23,0	13,0	580
162.0204	350,0	31,0	23,0	13,0	720
162.0205	400,0	31,0	23,0	13,0	800
162.0206	500,0	33,0	26,0	13,0	1160
162.0207	600,0	33,0	26,0	13,0	1400
162.0208	800,0	33,0	26,0	13,0	1860
162.0209	1000,0	33,0	26,0	13,0	2360

Bricklayers chisel

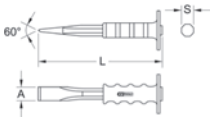
- DIN 7254 form B
- 8-point
- Blade can be resharpened
- Quenched and tempered
- Shaft with gold coated lacquer
- Highly polished
- Chrome molybdenum



	L mm	A mm	S mm	Handle number	g
162.0481	200,0	27,0	16,0	162.0445	300
162.0482	250,0	27,0	16,0	162.0445	380
162.0483	300,0	30,0	18,0	162.0446	600
162.0484	350,0	30,0	18,0	162.0446	700
162.0485	400,0	30,0	20,0	162.0447	980
162.0486	500,0	30,0	20,0	162.0447	1240

Bricklayers chisel with hand grip

- DIN 7254 form B
- 8-point
- Blade can be resharpened
- With hand protection grip
- Quenched and tempered
- Shaft with gold coated lacquer
- Highly polished
- Chrome molybdenum



	L mm	A mm	S mm	g
162.0222	250,0	27,0	16,0	380
162.0223	300,0	30,0	18,0	600
162.0224	350,0	30,0	18,0	700
162.0225	400,0	30,0	20,0	980
162.0226	500,0	30,0	20,0	1240

POINTED CHISELS

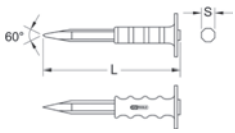
Pointed chisel

- DIN 7256
- 8-point
- Tip can be re-sharpened
- Quenched and tempered
- Shaft with gold coated lacquer
- Highly polished
- Chrome molybdenum

	L mm	S mm	Handle number	g
162.0231	200,0	16,0	162.0445	280
162.0232	250,0	16,0	162.0445	360
162.0233	300,0	18,0	162.0446	560
162.0234	350,0	18,0	162.0446	660
162.0235	400,0	20,0	162.0447	940
162.0236	500,0	20,0	162.0447	1200
162.0237	600,0	20,0	162.0447	1480
162.0238	800,0	20,0	162.0447	1960
162.0239	1000,0	20,0	162.0447	2440

Pointed chisel with hand grip

- DIN 7256
- 8-point
- Tip can be re-sharpened
- Quenched and tempered
- Shaft with gold coated lacquer
- Highly polished
- Chrome molybdenum



	L mm	S mm	g
162.0242	250,0	16,0	360
162.0243	300,0	18,0	560
162.0244	350,0	18,0	660
162.0245	400,0	20,0	940
162.0246	500,0	20,0	1200
162.0247	600,0	20,0	1480
162.0248	800,0	20,0	1960
162.0249	1000,0	20,0	2440

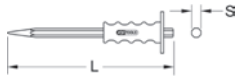
Pointed chisel

- 8-point
- Quenched and tempered
- Tip can be re-sharpened
- Shaft with powder coated lacquer
- Carbon manganese silicon steel

	L mm	S mm	Handle number	g
156.1521	200,0	16,0	162.0445	280
156.0511	250,0	16,0	162.0445	390
156.0512	300,0	16,0	162.0445	400
156.0513	350,0	16,0	162.0445	450
156.0514	400,0	18,0	162.0446	660
156.1522	500,0	20,0	162.0445	1200
156.1523	600,0	20,0	162.0445	1480
156.1524	800,0	20,0	162.0445	1960
156.1525	1000,0	20,0	162.0445	2440

Pointed chisel with hand grip

- 8-point
- Quenched and tempered
- Tip can be re-sharpened
- Shaft with powder coated lacquer
- Carbon manganese silicon steel

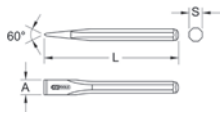


	L mm	S mm	g
156.1511	200,0	16,0	280
156.0515	250,0	16,0	530
156.0516	300,0	16,0	620
156.0517	350,0	16,0	710
156.0518	400,0	16,0	790
156.1512	500,0	20,0	1200
156.1513	600,0	20,0	1480
156.1514	800,0	20,0	1960
156.1515	1000,0	20,0	2440

ELECTRICIANS CHISEL

Electrians chisel

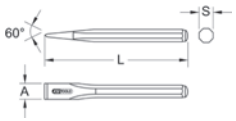
- 4 point
- Quenched and tempered
- Blade can be resharpened
- Shaft with gold coated lacquer
- Highly polished
- Chrome molybdenum



	L mm	A mm	S mm	Handle number	g
162.0251	200,0	8,0	6,0	-	60
162.0252	200,0	10,0	8,0	-	100
162.0253	200,0	12,0	8,0	-	101
162.0254	200,0	12,0	10,0	-	140
162.0255	250,0	10,0	8,0	-	120
162.0256	250,0	12,0	8,0	-	120
162.0257	250,0	12,0	10,0	-	185
162.0258	300,0	12,0	8,0	-	140

Electrians chisel

- 8-point
- Quenched and tempered
- Blade can be resharpened
- Shaft with gold coated lacquer
- Highly polished
- Chrome molybdenum

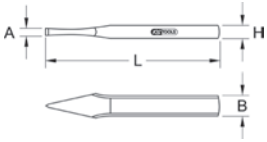


	L mm	A mm	S mm	Handle number	
162.0261	200,0	12,0	10,0	-	120
162.0262	200,0	14,0	12,0	-	160
162.0263	250,0	12,0	10,0	-	150
162.0264	250,0	14,0	12,0	-	210
162.0265	300,0	12,0	10,0	-	200
162.0266	300,0	14,0	12,0	-	260

CROSS CHISEL

Cross chisel

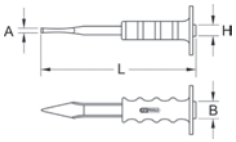
- DIN 6451
- Flat oval form
- Tip can be re-sharpened
- Quenched and tempered
- Shaft with gold coated lacquer
- Highly polished
- Chrome molybdenum



	L mm	A mm	B mm	H mm	Handle number	
162.0281	100,0	5,0	14,0	9,0	-	60
162.0282	125,0	5,0	14,0	9,0	-	80
162.0283	150,0	6,0	17,0	11,0	-	160
162.0284	175,0	7,0	20,0	12,0	-	240
162.0285	200,0	8,0	23,0	13,0	162.0442	340
162.0286	250,0	8,0	23,0	13,0	162.0442	460
162.0287	300,0	9,0	23,0	13,0	162.0442	560

Cross chisel with hand grip

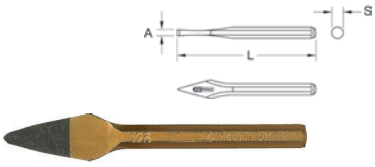
- DIN 6451
- Flat oval form
- Tip can be re-sharpened
- Quenched and tempered
- Shaft with gold coated lacquer
- Highly polished
- Chrome molybdenum



	L mm	A mm	B mm	H mm	
162.0293	250,0	8,0	23,0	13,0	460
162.0294	300,0	9,0	23,0	13,0	560

Cross chisel

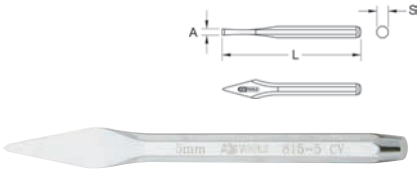
- 8-point
- Quenched and tempered
- Tip can be re-sharpened
- Shaft with gold coated lacquer
- Highly polished
- Chrome molybdenum



	L mm	A mm	S mm	Handle number	
162.0301	125,0	4,0	10,0	-	60

Cross chisel

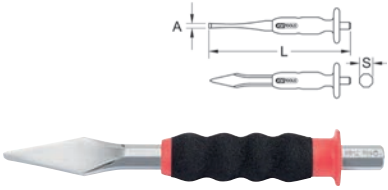
- 8-point
- Quenched and tempered
- Mirror polished
- Highly polished
- Chrome vanadium



	L mm	A mm	S mm	Handle number	
156.0161	130,0	5,0	10,0	-	60

Cross chisel with hand grip

- 8-point
- Quenched and tempered
- Tip can be re-sharpened
- Highly polished
- Chrome molybdenum

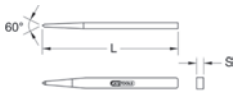


	L mm	A mm	S mm	
156.0242	190,0	7,0	12,0	169

TILERS POINTED CHISELS

Tilers pointed chisel

- 4 point
- Quenched and tempered
- Blade can be resharpened
- Shaft with gold coated lacquer
- Highly polished
- Chrome molybdenum



	L mm	S mm	Handle number	
162.0321	100,0	8,0	-	40
162.0322	200,0	6,0	-	60
162.0323	200,0	8,0	-	100
162.0324	250,0	8,0	-	120
162.0325	250,0	10,0	-	180

PARTING CHISEL

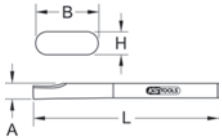
Bodywork slitting chisel

- Flat oval form
- Quenched and tempered
- Blade can be resharpened
- Shaft with gold coated lacquer
- Highly polished
- Chrome molybdenum

	L mm	A mm	B mm	H mm	Handle number	
162.0271	250,0	30,0	23,0	13,0	162.0442	460

Bodywork slitting chisel

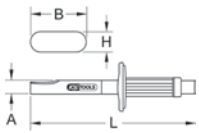
- DIN 7255
- Flat oval form
- Blade can be resharpened
- Extra flat
- Burnished
- Chrome vanadium



	L mm	A mm	B mm	H mm	Handle number	
140.2162	300,0	21,0	25,0	6,0	-	310

Bodywork slitting chisel with hand grip

- DIN 7255
- Flat oval form
- Blade can be resharpened
- Extra flat
- Burnished
- Chrome vanadium



	L mm	A mm	B mm	H mm	
140.2165	300,0	21,0	25,0	6,0	550

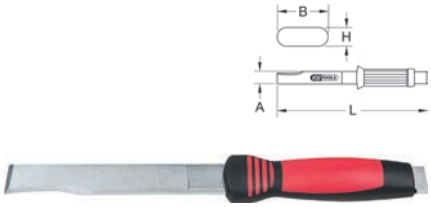
Bodywork spade chisel

- Extra wide execution
- With protective handgrip
- Quenched and tempered
- For cutting metal sheet and spot welds
- Shaft with powder coated lacquer
- Special tool steel

	B mm	L mm	g
156.0330	60,0	240,0	600

Bodywork slitting chisel

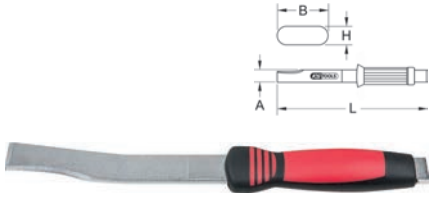
- Suitable for separating welds
- With re-grindable cutters
- Continuous blade
- Two component handle
- Special tool steel



	L mm	A mm	B mm	H mm	g
162.0216	300,0	25,0	19,0	6,0	330

Bodywork slitting chisel

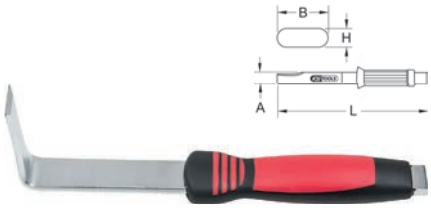
- Suitable for separating welds
- With re-grindable cutters
- Continuous blade
- Two component handle
- Special tool steel



	L mm	A mm	B mm	H mm	g
162.0217	300,0	25,0	19,0	6,0	330

Bodywork slitting chisel

- Suitable for separating welds
- With re-grindable cutters
- Continuous blade
- Two component handle
- Special tool steel

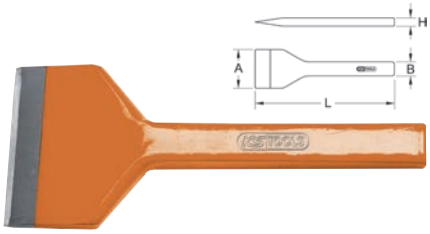


	L mm	A mm	B mm	H mm	g
162.0218	240,0	25,0	19,0	6,0	330

BOLSTER CHISEL

Bolster chisel

- Flat oval form
- Quenched and tempered
- Blade can be resharpened
- Shaft gold lacquer
- Carbon manganese silicon steel



	L mm	A mm	Handle number	H mm	g
162.0431	200,0	60,0	-	15,0	500
162.0432	200,0	80,0	-	15,0	600
162.0433	220,0	100,0	-	18,0	750
162.0434	220,0	120,0	-	18,0	900

GLASS FIBRE CHISELS

Glassfibre chisel

- For paint preserving removal of ornament and window strips and wheel weights on aluminium rims
- With impact cap for light impacts
- Special shape of the bit handle ensures safe work
- With flexible flat scraper and cutting edge
- Also suitable for the removal of labels, adhesive and type plates
- Surfaces are not damaged
- Sharpened with a file
- Solvent-resistant
- Special plastic

		g
911.8131	19,0	130
911.8132	22,0	140
911.8133	26,0	150
911.8134	38,0	180

Glassfibre chisel set

- For paint preserving removal of ornament and window strips and wheel weights on aluminium rims
- With impact cap for light impacts
- Special shape of the bit handle ensures safe work
- With flexible flat scraper and cutting edge
- Also suitable for the removal of labels, adhesive and type plates
- Surfaces are not damaged
- Sharpened with a file
- Solvent-resistant
- Special plastic

			g
911.8130	4 pcs	19 - 22 - 26 - 38 mm	570

HAND GRIPS

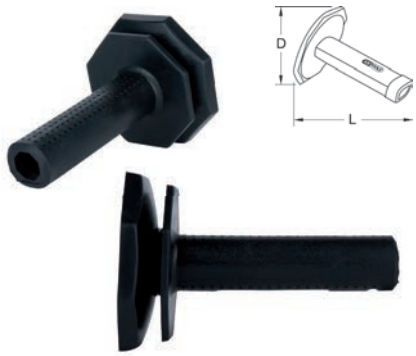
Hand grip for chisel

- Standard version
- PVC

	L mm	D mm	Handle size mm	g
162.0441	120,0	80,0	20x12	110
162.0442	120,0	80,0	23x13	110
162.0443	120,0	80,0	26x7	110
162.0444	120,0	80,0	26x13	110
162.0445	120,0	80,0	16	110
162.0446	120,0	80,0	18	110
162.0447	120,0	80,0	20	110

Safety hand grip for chisel

- Double hand protection
- PVC

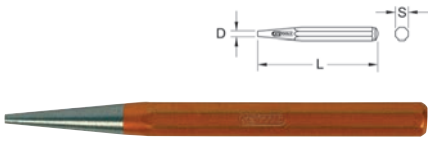


	L mm	D mm	Handle size mm	g
162.2128	140,0	100,0	23x13	170
162.2129	140,0	100,0	20	170
162.2130	140,0	100,0	26x7	170
162.2132	140,0	100,0	26x13	170

PIN PUNCHES

Pin punch

- DIN 6458 form B
- 8-point
- Tip can be re-sharpened
- Quenched and tempered
- Shaft with gold coated lacquer
- Highly polished
- Chrome molybdenum



	L mm	D mm	S mm	Handle number	g
162.0331	120,0	1,0	10,0	-	65
162.0332	120,0	2,0	10,0	-	65
162.0333	120,0	3,0	10,0	-	65
162.0334	120,0	4,0	10,0	-	65
162.0335	120,0	5,0	10,0	-	65
162.0336	120,0	6,0	10,0	-	65

Pin punch

- DIN 6458 form D
- 8-point
- Tip can be re-sharpened
- Quenched and tempered
- Shaft with gold coated lacquer
- Highly polished
- Chrome molybdenum

	L mm	D mm	S mm	Handle number	g	
162.0341	120,0	1,0	12,0	-	85	
162.0342	120,0	2,0	12,0	-	85	
162.0343	120,0	3,0	12,0	-	85	
162.0344	120,0	4,0	12,0	-	90	
162.0345	120,0	5,0	12,0	-	90	
162.0346	120,0	6,0	12,0	-	90	
162.0347	120,0	7,0	12,0	-	95	
162.0348	120,0	8,0	12,0	-	95	
162.0349	120,0	9,0	12,0	-	100	
162.0350	120,0	10,0	12,0	-	105	
162.0352	150,0	12,0	16,0	-	220	

Pin punch with hollow tip

- DIN 6458
- 8-point
- Tip can be re-sharpened
- Quenched and tempered
- Shaft with gold coated lacquer
- Highly polished
- Chrome molybdenum

	L mm	D mm	S mm	Handle number	g	
162.0461	120,0	1,0	10,0	-	65	
162.0462	120,0	2,0	10,0	-	65	
162.0463	120,0	3,0	10,0	-	65	
162.0464	120,0	4,0	10,0	-	65	
162.0465	120,0	5,0	10,0	-	65	
162.0466	120,0	6,0	10,0	-	65	

Punch set for trucks

- Conical tapered point
- Universal usage
- For extracting cotter pins, bolts, bearing rings etc.
- Ideally suited for daily workshop use
- High quality and substaintial construction
- Premium tempered and hardened steel
- Special steel

			kg	
450.0090	4 pcs	6,4 - 6,4 - 8,0 - 13,0 mm	2,91	

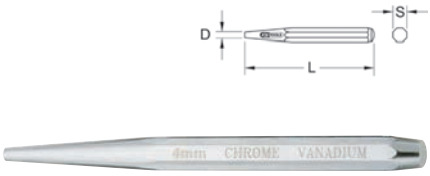
Truck punch

- Conical tapered point
- Universal usage
- For extracting cotter pins, bolts, bearing rings etc.
- Ideally suited for daily workshop use
- High quality and substaintial construction
- Premium tempered and hardened steel
- Special steel

	Ø mm	L mm	g	
450.0091	6,4	300,0	390	
450.0092	6,4	380,0	730	
450.0093	8,0	300,0	410	
450.0094	13,0	460,0	1310	

Pin punch

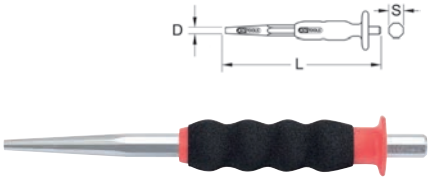
- 8-point
- Quenched and tempered
- Mirror polished
- Highly polished
- Chrome vanadium



	L mm	D mm	S mm	Handle number	g	
156.0130	120,0	2,0	9,5	-	60	
156.0131	120,0	3,0	9,5	-	60	
156.0132	120,0	4,0	9,5	-	60	
156.0133	120,0	5,0	9,5	-	60	
156.0134	120,0	6,0	9,5	-	60	

Pin punches with hand grip

- 8-point
- Quenched and tempered
- Tip can be re-sharpened
- Highly polished
- Chrome molybdenum



	L mm	D mm	S mm	g	
156.0244	185,0	5,0	10,0	115	

Pin punch set

- DIN 6458 Form B+D
- 8-point
- Quenched and tempered
- Tip can be re-sharpened
- Shaft with gold coated lacquer
- Highly polished
- Chrome molybdenum
- In a plastic bag

			g	
162.2126	6 pcs	120x10x1 - 120x10x2 - 120x10x3 - 120x10x4 - 120x10x5 - 120x10 mm	465	

Pin punch set

- DIN 6458 Form B+D
- 8-point
- Quenched and tempered
- Tip can be re-sharpened
- Shaft with gold coated lacquer
- Highly polished
- Chrome molybdenum
- In plastic stands

			g	
162.2127	6 pcs	120x10x1 - 120x10x2 - 120x10x3 - 120x10x4 - 120x10x5 - 120x10 mm	465	

Pin punch set

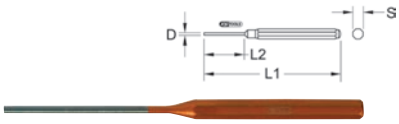
- DIN 6458 Form B+D
- 8-point
- Quenched and tempered
- Tip can be re-sharpened
- Shaft with gold coated lacquer
- Highly polished
- Chrome molybdenum
- In metal storage cassette

			g	
162.2124	6 pcs	120x10x1 - 120x10x2 - 120x10x3 - 120x10x4 - 120x10x5 - 120x10 mm	710	

COTTER PIN DRIVES

Cotter pin drive, long

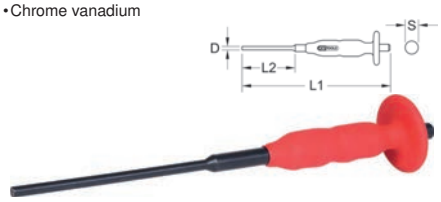
- 8-point
- Quenched and tempered
- Tip can be re-sharpened
- Shaft with gold coated lacquer
- Highly polished
- Chrome molybdenum



	L1 mm	L2 mm	D mm	S mm	Handle number	g	
162.0391	175,0	80,0	3,0	10,0	-	60	
162.0392	175,0	80,0	4,0	10,0	-	70	
162.0393	175,0	80,0	5,0	10,0	-	80	
162.0394	175,0	80,0	6,0	10,0	-	90	
162.0395	175,0	80,0	8,0	12,0	-	140	
162.0396	175,0	80,0	10,0	12,0	-	150	

Pin punches with hand grip

- Round
- Quenched and tempered
- Tip can be re-sharpened
- Burnished
- Chrome vanadium



	L1 mm	L2 mm	D mm	S mm	g
156.0026	270,0	110,0	6,0	10,0	130
156.0028	300,0	130,0	8,0	12,0	220
156.0030	300,0	140,0	10,0	12,0	250
156.0032	300,0	140,0	12,0	14,0	340
156.0034	300,0	140,0	14,0	16,0	450

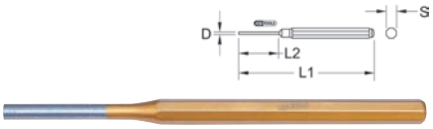
Pin punch set with hand protection grip

- Quenched and tempered
- Tip can be re-sharpened
- Burnished
- Chrome vanadium
- In metal stand with the possibility of wall hanging

			kg
156.0020	5 pcs	270x6 - 300x8 - 300x10 - 300x12 - 300x14 mm	2,70

Pin punch, extra long

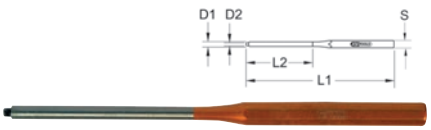
- 8-point
- Quenched and tempered
- Tip can be re-sharpened
- Shaft with gold coated lacquer
- Highly polished
- Chrome molybdenum



	L1 mm	L2 mm	D mm	S mm	Handle number	g
162.0401	200,0	40,0	2,0	10,0	-	82
162.0402	200,0	50,0	3,0	10,0	-	90
162.0403	200,0	55,0	4,0	10,0	-	92
162.0404	200,0	55,0	5,0	10,0	-	96
162.0405	200,0	55,0	6,0	12,0	-	100
162.0406	200,0	55,0	8,0	12,0	-	150
162.0407	200,0	55,0	10,0	12,0	-	165

Brake pad cotter pin drive with guide tip

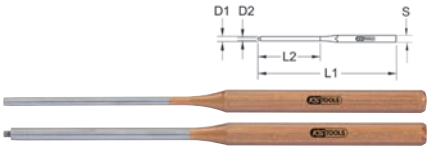
- 8-point
- Extra long execution
- Quenched and tempered
- With guide pin for locking pins
- Suitable for locking pins on vehicles with disk brakes
- Shaft with gold coated lacquer
- Highly polished
- Chrome molybdenum



	L1 mm	L2 mm	D1 mm	D2 mm	S mm	Handle number	g
162.0411	175,0	85,0	4,0	2,7	10,0	-	60
162.0412	175,0	85,0	6,0	3,8	10,0	-	70

Brake pad cotter pin drive with guide tip

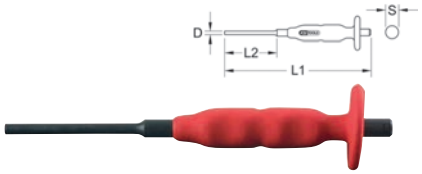
- 6 point
- Extra long execution
- Quenched and tempered
- 150.2151 with guide pin for locking pins
- Suitable for locking pins on vehicles with disk brakes
- Shaft with gold coated lacquer
- Highly polished
- Chrome molybdenum



	L1 mm	L2 mm	D1 mm	D2 mm	S mm	Handle number	g
150.2150	180,0	80,0	4,0		10,0	-	70
150.2151	175,0	80,0	5,8	3,1	10,0	-	70

Pin punch with hand protection grip

- Round
- Quenched and tempered
- Tip can be re-sharpened
- Burnished
- Chrome vanadium



	L1 mm	L2 mm	D mm	S mm	g
156.0002	130,0	30,0	3,0	8,0	50
156.0003	145,0	40,0	3,0	8,0	60
156.0004	180,0	50,0	4,0	8,0	100
156.0005	180,0	60,0	5,0	10,0	100
156.0006	205,0	80,0	6,0	10,0	130
156.0008	225,0	85,0	8,0	12,0	150
156.0010	225,0	90,0	10,0	12,0	200

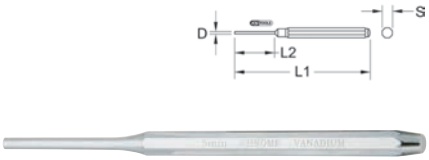
Pin punch set with hand protection grip

- With wall mounting possibility
- Tip can be re-sharpened
- Quenched and tempered
- Burnished
- Chrome vanadium
- In metal stand

			g
156.0000	5 pcs	145x3 - 180x4 - 180x5 - 205x6 - 225x8 mm	650

Pin punch

- 8-point
- Quenched and tempered
- Mirror polished
- Highly polished
- Chrome vanadium



	L1 mm	L2 mm	D mm	S mm	Handle number	g
156.0111	115,0	30,0	2,0	8,0	-	40
156.0112	125,0	40,0	3,0	8,0	-	40
156.0113	150,0	50,0	4,0	9,5	-	60
156.0114	165,0	50,0	5,0	9,5	-	70
156.0115	180,0	55,0	6,0	12,7	-	140
156.0116	180,0	55,0	8,0	12,7	-	150

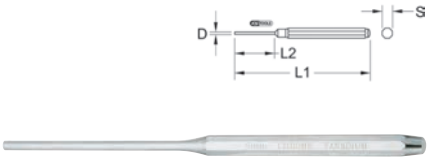
Pin punch set

- Quenched and tempered
- Mirror polished
- Highly polished
- Chrome vanadium
- In plastic support bracket

			g
156.0150	6 pcs	115x2 - 125x3 - 150x4 - 165x5 - 180x6 - 180x8 mm	520

Pin punch, extra long

- 8-point
- Quenched and tempered
- Mirror polished
- Highly polished
- Chrome vanadium



	L1 mm	L2 mm	D mm	S mm	Handle number	g
156.0121	200,0	80,0	3,0	9,5	-	70
156.0122	200,0	85,0	4,0	9,5	-	70
156.0123	200,0	90,0	5,0	9,5	-	80
156.0124	200,0	93,0	6,0	9,5	-	80
156.0125	200,0	93,0	8,0	12,7	-	150
156.0126	200,0	93,0	10,0	12,7	-	170

Pin punch set

- 8-point
- Quenched and tempered
- Mirror polished
- Highly polished
- Chrome vanadium
- In metal stand with the possibility of wall hanging

156.0180	17 pcs	Pin punch set	1,00

consists of:

156.0111	Pin punch octagonal shaft, mirror polished, Ø 2mm	40
156.0112	Pin punch octagonal shaft, mirror polished, Ø 3mm	40
156.0113	Pin punch octagonal shaft, mirror polished, Ø 4mm	60
156.0114	Pin punch octagonal shaft, mirror polished, Ø 5mm	70
156.0115	Pin punch octagonal shaft, mirror polished, Ø 6mm	140
156.0116	Pin punch octagonal shaft, mirror polished, Ø 8mm	150
156.0121	Pin punch octagonal shaft, mirror polished, extra long, Ø 3mm	70
156.0122	Pin punch octagonal shaft, mirror polished, extra long, Ø 4mm	70
156.0123	Pin punch octagonal shaft, mirror polished, extra long, Ø 5mm	80
156.0124	Pin punch octagonal shaft, mirror polished, extra long, Ø 6mm	80
156.0125	Pin punch octagonal shaft, mirror polished, extra long, Ø 8mm	150
156.0126	Pin punch octagonal shaft, mirror polished, extra long, Ø 10mm	170
156.0130	Pin punch, Ø 2mm	60
156.0131	Pin punch, Ø 3mm	60
156.0132	Pin punch, Ø 4mm	60
156.0133	Pin punch, Ø 5mm	60
156.0134	Pin punch, Ø 6mm	60

Combi tool set

- Quenched and tempered
- Mirror polished
- Highly polished
- Chrome vanadium
- In plastic support bracket

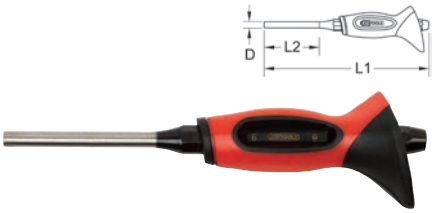
156.0160	5 pcs	Combi tool set	360

consists of:

156.0113	Punch, octagonal, mirror polished, Ø 4mm	60
156.0131	Punch, mirror polished, Ø 3mm	60
156.0175	Center punch, octagonal, mirror polished, Ø 5mm	60
156.0162	Flat chisel, octagonal, mirror polished, 130mm	70
156.0161	Cross chisel, mirror polished, 130mm	60

Pin punches with hand grip

- Round
- Quenched and tempered
- Two component handle
- Tip can be re-sharpened
- Tip polished, shaft burnished
- Chrome vanadium



	D mm	L1 mm	L2 mm	S mm	
156.0211	2,0	150,0	30,0	10,0	100
156.0212	3,0	150,0	40,0	10,0	100
156.0213	4,0	150,0	55,0	10,0	100
156.0214	5,0	150,0	60,0	10,0	100
156.0215	6,0	150,0	60,0	10,0	100
156.0216	7,0	150,0	60,0	12,0	110
156.0217	8,0	150,0	60,0	12,0	110
156.0218	9,0	150,0	60,0	12,0	110
156.0219	10,0	150,0	60,0	12,0	130

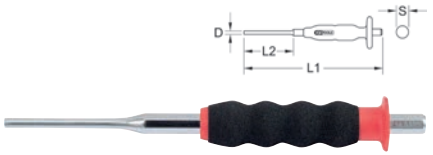
Pin punch set with hand protection grip

- Round
- Quenched and tempered
- Two component handle
- Tip can be re-sharpened
- Tip polished, shaft burnished
- Chrome vanadium

156.0220	5 pcs	3 - 4 - 5 - 6 - 8 mm	800

Pin punch, cylindrical shaft

- Quenched and tempered
- Tip can be re-sharpened
- Highly polished
- Chrome molybdenum



	L1 mm	L2 mm	D mm	S mm	
156.0231	150,0	50,0	3,0	8,0	52
156.0232	180,0	61,0	4,0	10,0	93
156.0233	200,0	61,0	5,0	10,0	109
156.0234	210,0	71,0	6,0	12,0	160
156.0235	220,0	85,0	8,0	12,0	172

Punch set, cylindrical shaft

- Quenched and tempered
- Tip can be re-sharpened
- Highly polished
- Chrome molybdenum

156.0230	5 pcs	3 - 4 - 5 - 6 - 8 mm	715

Chisel and punch set

- Quenched and tempered
- Tip can be re-sharpened
- Highly polished
- Chrome molybdenum

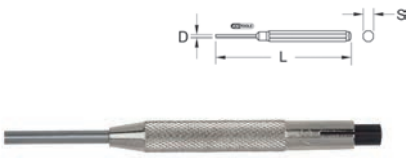
156.0240	5 pcs	Chisel and punch set	900

consists of:

156.0232	Cotter pin drive Ø 4 mm, cylindrical	93
156.0241	Flat chisel, 20 mm, 8-point	273
156.0242	Cross chisel, 7 mm, 8-point	169
156.0243	Centre punch, 10 mm, 8-point	118
156.0244	Punch, Ø 5 mm, conical	115

Cotter pin drive with guide sleeve

- Guide sleeve, coded
- Ø 0.9 to 4.9 mm with loose guide sleeve
- Ø 5.9 mm with fixed sleeve
- Highly polished
- Chrome vanadium



	L mm	D mm	S mm	
162.2249	70,0	0,9	5,0	15
162.2250	80,0	1,4	6,0	21
162.2251	83,0	1,8	6,0	21
162.2252	92,0	2,4	7,0	30
162.2253	94,0	2,8	7,0	30
162.2254	100,0	3,4	8,0	35
162.2255	100,0	3,9	8,0	35
162.2256	110,0	4,9	10,0	45
162.2257	115,0	5,9	12,0	68

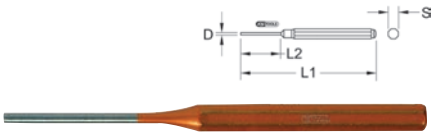
Cotter pin drive set with guide sleeve

- Guide sleeve, coded
- Ø 0.9 to 4.9 mm with loose guide sleeve
- Ø 5.9 mm with fixed sleeve
- Highly polished
- Chrome vanadium
- In a plastic bag

162.2310	8 pcs	70x0,9 - 80x1,4 - 83x1,8 - 92x2,4 - 94x2,8 - 100x3,4 - 100x3,9 - 115x5,9 mm	240

Pin punch

- DIN 6450 form C
- 8-point
- Tip can be re-sharpened
- Quenched and tempered
- Shaft with gold coated lacquer
- Highly polished
- Chrome molybdenum



	L1 mm	L2 mm	D mm	S mm	Handle number	
162.0371	150,0	35,0	2,0	10,0	-	60
162.0372	150,0	40,0	2,5	10,0	-	60
162.0373	150,0	40,0	3,0	10,0	-	60
162.0374	150,0	40,0	3,5	10,0	-	65
162.0375	150,0	50,0	4,0	10,0	-	65
162.0376	150,0	50,0	4,5	10,0	-	65
162.0377	150,0	50,0	5,0	10,0	-	65
162.0378	150,0	50,0	6,0	10,0	-	70
162.0379	150,0	55,0	7,0	10,0	-	95
162.0380	150,0	55,0	8,0	12,0	-	100
162.0381	150,0	55,0	9,0	12,0	-	110
162.0382	150,0	55,0	10,0	12,0	-	115
162.0383	150,0	55,0	12,0	16,0	-	170

Pin punch set

- Quenched and tempered
- Tip can be re-sharpened
- Shaft with gold coated lacquer
- Highly polished
- Chrome molybdenum
- In a plastic bag

162.2122	6 pcs	150x10x3 - 150x10x4 - 150x10x5 - 150x10x6 - 150x12x8 - 150x12x10 mm	470

Pin punch set

- Quenched and tempered
- Tip can be re-sharpened
- Shaft with gold coated lacquer
- Highly polished
- Chrome vanadium
- In plastic support bracket

162.2123	6 pcs	150x10x3 - 150x10x4 - 150x10x5 - 150x10x6 - 150x12x8 - 150x12x10 mm	470

Pin punch set

- Quenched and tempered
- Tip can be re-sharpened
- Shaft with gold coated lacquer
- Highly polished
- Chrome molybdenum
- In metal storage box

162.0370	6 pcs	150x10x3 - 150x10x4 - 150x10x5 - 150x10x6 - 150x12x8 - 150x12x10mm	750

Combination set

- Evenly hardened and carefully tempered through the whole length
- Impact heads inductively tempered
- Working ends polished ground and clear lacquered
- In metal storage cassette

162.2114	6 pcs	Combination set	740

consists of:

162.0212	Flat chisel, 8-point, 150mm	120
162.0301	Cross chisel, 8-point, 4x125mm	60
162.0361	Centre punch, 8-point, Ø 4mm	65
162.0375	Cotter pin drive, 8-point, Ø 4mm	65
162.0333	Punch, 8-point, Ø 3mm	65
162.0345	Punch, 8-point, Ø 5mm	90

Combination set

- Evenly hardened and carefully tempered through the whole length
- Impact heads inductively tempered
- Working ends polished ground and clear lacquered
- In plastic bag

162.2117	6 pcs	Combination set	510

consists of:

162.0212	Flat chisel, 8-point, 150mm	120
162.0301	Cross chisel, 8-point, 4x125mm	60
162.0361	Centre punch, 8-point, Ø 4mm	65
162.0375	Cotter pin drive, 8-point, Ø 4mm	65
162.0333	Punch, 8-point, Ø 3mm	65
162.0345	Punch, 8-point, Ø 5mm	90

Combination set

- Evenly hardened and carefully tempered through the whole length
- Impact heads inductively tempered
- Working ends polished ground and clear lacquered
- In plastic support bracket

162.2118	6 pcs	Combination set	510

consists of:

162.0212	Flat chisel, 8-point, 150mm	120
162.0301	Cross chisel, 8-point, 4x125mm	60
162.0361	Centre punch, 8-point, Ø 4mm	65
162.0375	Cotter pin drive, 8-point, Ø 4mm	65
162.0333	Punch, 8-point, Ø 3mm	65
162.0345	Punch, 8-point, Ø 5mm	90

BEARING AND BUSH DRIVER

Brass and aluminium punch

- For extracting bearing, bolts and bushes etc.
- Rimed handle for better control
- Brass / Aluminium

	Material	Ø mm	Length mm	kg
156.0415	brass	20,0	300,0	1,13
156.0416	aluminium	30,0	300,0	1,89

Bearing punch set Ø 10.0 - 14.0 mm

- In durable plastic storage case

			g
156.0440	10 pcs	Bearing punch set Ø 10.0 - 14.0 mm	240

consists of:

		g
156.0436	Punch holder	100
156.0441	Punch attachable head 2 pcs, polyamide, Ø 10 mm	10
156.0442	Punch attachable head 2 pcs, polyamide, Ø 12 mm	10
156.0443	Punch attachable head 2 pcs, polyamide, Ø 14 mm	10
156.0449	Punch attachable head 2 pcs, aluminium, Ø 10 mm	10
156.0450	Aluminium punch set, 2 pcs., Ø 12 mm	10
156.0451	Punch attachable head 2 pcs, aluminium, Ø 14 mm	20
156.0457	Punch attachable head 2 pcs, brass, Ø 10 mm	20
156.0458	Punch attachable head 2 pcs, brass, Ø 12 mm	20
156.0459	Punch attachable head 2 pcs, brass, Ø 14 mm	50

Bearing punch set Ø 25.0 mm

- In durable plastic storage case

			g
156.0425	7 pcs	Bearing punch set Ø 25.0 mm	640

consists of:

		g
156.0426	Punch holder without impact	360
156.0447	Punch attachable head 2 pcs, polyamide, Ø 25 mm	20
156.0455	Punch attachable head 2 pcs, aluminium, Ø 25 mm	50
156.0463	Punch attachable head 2 pcs, brass, Ø 25 mm	150

Universal bearing and bush driver set

- Universal applicable range
- Can be used manually with a hammer or workshop press
- Applications from 18.0 - 65.0 mm
- Pressure plates are for the two driving spindles
- Special tool steel
- In durable plastic storage case

			kg
700.1350	51 pcs	Universal bearing and bush driver set	8,00

consists of:

		g
700.1348	Reception adaptor, 45mm	500
700.1349	Impact drive knurled grip, 220mm	42
700.1351	Pressure plate, 18mm	12
700.1352	Pressure plate, 19mm	14
700.1353	Pressure plate, 20mm	16
700.1354	Pressure plate, 21mm	20
700.1355	Pressure plate, 22mm	22
700.1356	Pressure plate, 23mm	27
700.1357	Pressure plate, 24mm	30
700.1358	Pressure plate, 25mm	34
700.1359	Pressure plate, 26mm	38
700.1360	Pressure plate, 27mm	43
700.1361	Pressure plate, 28mm	47
700.1362	Pressure plate, 29mm	50
700.1363	Pressure plate, 30mm	53
700.1364	Pressure plate, 31mm	59
700.1365	Pressure plate, 32mm	65
700.1366	Pressure plate, 33mm	68
700.1367	Pressure plate, 34mm	72
700.1368	Pressure plate, 35mm	77
700.1369	Pressure plate, 36mm	82
700.1370	Pressure plate, 37mm	89
700.1371	Pressure plate, 38mm	94
700.1372	Pressure plate, 39mm	97
700.1373	Pressure plate, 40mm	105
700.1374	Pressure plate, 41mm	111
700.1375	Pressure plate, 42mm	119
700.1376	Pressure plate, 43mm	125
700.1377	Pressure plate, 44mm	132
700.1378	Pressure plate, 45mm	138
700.1379	Pressure plate, 46mm	144
700.1380	Pressure plate, 47mm	153
700.1381	Pressure plate, 48mm	159
700.1382	Pressure plate, 49mm	165
700.1383	Pressure plate, 50mm	172
700.1384	Pressure plate, 51mm	181
700.1385	Pressure plate, 52mm	188
700.1386	Pressure plate, 53mm	196
700.1387	Pressure plate, 54mm	205
700.1388	Pressure plate, 55mm	213
700.1389	Pressure plate, 56mm	221
700.1390	Pressure plate, 57mm	231

consists of:

		g
700.1391	Pressure plate, 58mm	238
700.1392	Pressure plate, 59mm	247
700.1393	Pressure plate, 60mm	258
700.1394	Pressure plate, 61mm	266
700.1395	Pressure plate, 62mm	276
700.1396	Pressure plate, 63mm	284
700.1397	Pressure plate, 64mm	294
700.1398	Pressure plate, 65mm	305
700.1399	Support plate, 75mm	500

Universal bearing and bush driver set

- for gentle driving of bearing and radial sealing rings
- Universal applicable range
- Can be used manually with a hammer or workshop press
- Applications from 70.0 - 150.0 mm
- Pressure plates are for the two driving spindles
- Special tool steel
- In durable plastic storage case

			kg
150.9710	21 pcs	Universal bearing and bush driver set	19,13

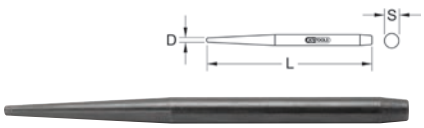
consists of:

		g
150.9712	Adaptor for Hydraulic thrust bolt, 45,5 mm	44
150.9713	Retaining adapter, 55 mm	217
150.9714	Repellent spike with knurling, 273,0 mm	1077
150.9715	Pressure plate, 70 mm	353
150.9716	Pressure plate, 75 mm	406
150.9717	Pressure plate, 80 mm	465
150.9718	Pressure plate, 85 mm	524
150.9719	Pressure plate, 90 mm	593
150.9720	Pressure plate, 95 mm	659
150.9721	Pressure plate, 100 mm	733
150.9722	Pressure plate, 105 mm	812
150.9723	Pressure plate, 110 mm	893
150.9724	Pressure plate, 115 mm	977
150.9725	Pressure plate, 120 mm	1065
150.9726	Pressure plate, 125 mm	1157
150.9727	Pressure plate, 130 mm	1255
150.9728	Pressure plate, 135 mm	1349
150.9729	Pressure plate, 140 mm	1457
150.9730	Pressure plate, 145 mm	1563
150.9731	Pressure plate, 150 mm	1676
151.2603	Hexagon key wrench phosphate finish, short, 3mm	10

CENTRE PUNCH

Centre punch

- Round
- Quenched and tempered
- Tip can be re-sharpened
- Black lacquer
- Chrome vanadium

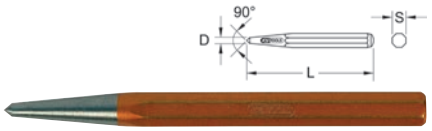


	L mm	D mm	S mm	Handle number	g
156.0340	150,0	5,0	10,0	-	70
156.0342	150,0	6,0	12,0	-	120
156.0344	210,0	7,0	14,0	-	170
156.0346	215,0	8,0	16,0	-	230
156.0348	220,0	9,0	18,0	-	310
156.0350	220,0	10,0	20,0	-	410
156.0352	220,0	11,0	22,0	-	510
156.0354	250,0	12,0	24,0	-	640

CENTRE PUNCHES

Centre punch

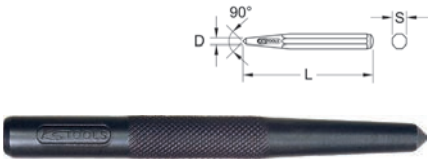
- DIN 7250
- 8-point
- Tip can be re-sharpened
- Quenched and tempered
- Shaft with gold coated lacquer
- Highly polished
- Chrome molybdenum



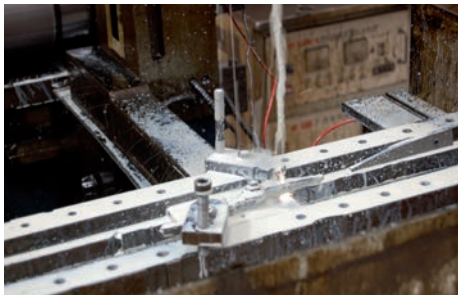
	L mm	D mm	S mm	Handle number	g
162.0361	120,0	4,0	10,0	-	65
162.0362	120,0	5,0	12,0	-	90
162.0363	150,0	5,0	12,0	-	120
162.0364	150,0	6,0	14,0	-	200
162.0365	150,0	8,0	18,0	-	260

Centre punch

- Round
- Quenched and tempered
- Burnished
- Chrome vanadium

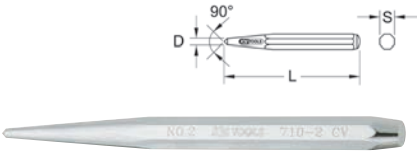


	L mm	D mm	S mm	Handle number	g
156.0404	100,0	4,0	10,0	-	30
156.0406	115,0	6,0	10,0	-	60
156.0408	120,0	8,0	12,0	-	120
156.0410	130,0	10,0	14,0	-	135



Centre punch

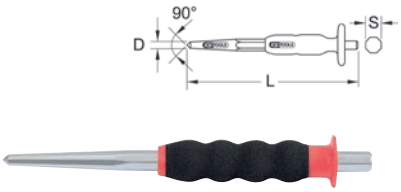
- 8-point
- Quenched and tempered
- Mirror polished
- Highly polished
- Chrome vanadium



	L mm	D mm	S mm	Handle number	g
156.0175	120,0	5,0	10,0	-	60

Centre punch with hand grip

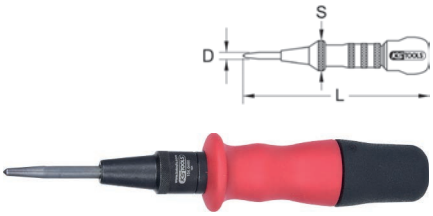
- 8-point
- Quenched and tempered
- Tip can be re-sharpened
- Highly polished
- Chrome molybdenum



	L mm	D mm	S mm	g
156.0243	185,0	10,0	10,0	118

Automatic centre punch

- Round
- Ergonomic handle
- Power of impact 17-20 kg
- Phosphate finish
- Chrome vanadium

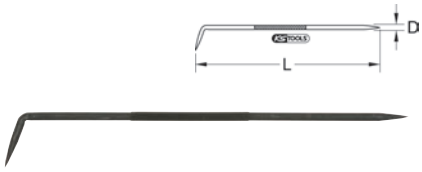


	L mm	D mm	S mm	g
156.0466	160,0	4,0	25,0	250

SCRIBER

Scriber

- For marking of work pieces
- Straight and 70° bent tip
- Knurled handle
- Hardened point
- Burnished
- Special tool steel



	L mm	D mm	g
300.0300	190,0	4,0	10

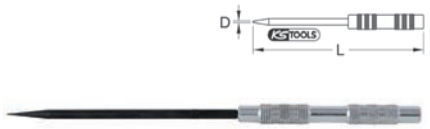
Hard metal scriber

- For marking of work pieces
- Straight and 70° bent tip
- With hard metal tip
- Hardened point
- Special tool steel

	L mm	D mm	g
300.2136	250,0	8,0	46

Hard metal scriber

- For marking of work pieces
- Straight and one-sided tip
- With hard metal tip
- Hardened point
- Special tool steel



	L mm	D mm	g
300.2135	170,0	4,0	38

Hard metal scriber

- For marking of work pieces
- Straight form
- With hard metal tip
- Pocket clip
- Hardened point
- Chrome plated
- Special tool steel

	L mm	D mm	g
300.0301	145,0	5,0	60
300.2137	150,0	6,0	36

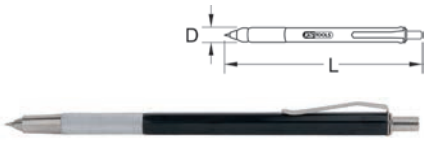
Hard metal scriber in ball-point pen form

- For marking of work pieces
- Straight form
- Hardened and interchangeable hard metal tips
- Pocket clip
- Protection through foldaway needle tip
- Adjustable and lead bow mine
- Metal housing

	L mm	D mm	Replacement tip	g
300.0302	150,0	8,0	300.0303	40

Hard metal scriber in ball-point pen form

- For marking of work pieces
- Straight form
- Hardened and interchangeable hard metal tips
- Pocket clip
- Protection through foldaway needle tip
- Adjustable and lead bow mine
- Metal housing

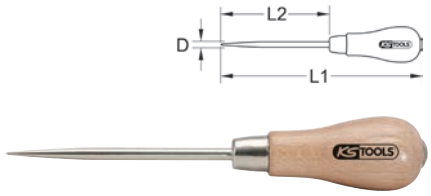


	L mm	D mm	Replacement tip	g
300.2138	160,0	8,0	300.2139	22

PUNCHES

Punches

- Impact cap on the handle end
- Sealed beech wood handle
- Mirror polished
- Highly polished
- Chrome vanadium

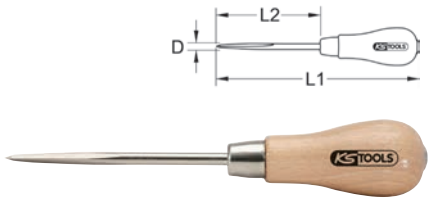


	L1 mm	L2 mm	D mm	g
300.1081	190,0	100,0	6,0	70

AWLE

Awle

- Impact cap on the handle end
- Sealed beech wood handle
- Mirror polished
- Highly polished
- Chrome vanadium



	L1 mm	L2 mm	D mm	g
300.1082	190,0	100,0	6,0	70

STAMP SETS

Number stamping set

- Lettering to DIN 1451
- Numbers „0 - 9“
- For stamping in materials up to 100 kp / mm² resistance
- 4 point shaft
- Font size 5 - 6mm
- Shaft engraved
- In plastic storage box

			g
156.0467	10 pcs	Number stamping set	500

Letter stamping set

- Lettering to DIN 1451
- Letters „A - Z“
- For stamping in materials up to 100 kp / mm² resistance
- 4 point shaft
- Font size 5 - 6mm
- Shaft engraved
- In plastic storage box

			kg
156.0468	27 pcs	Letter stamping set	1,33

Universal letter and number punch set

- Lettering to DIN 1451
- For stamping in materials up to 100 kp / mm² resistance
- 4 point shaft
- Font size 5 - 6mm
- Shaft engraved
- In durable plastic storage case

			kg
156.0465	40 pcs	Universal letter and number punch set	2,37

1 x		
1 x		0 - 9
1 x		A - Z
1 x		
1 x		

GASKET RING DISMANTLING TOOL

Hook, 90° short, 180° short

- Ideal for removing and use of O rings and seals
- Special tool steel

		g
550.1041	Hook, 90° short, 180° short	11

Hook, 45° long, 90° long

- Ideal for removing and use of O rings and seals
- Special tool steel

		g
550.1042	Hook, 45° long, 90° long	11

Hook tool set

- Ideal for removing and use of O rings and seals
- Special tool steel

			g
550.1040	2 pcs	Hook tool set	30

consists of:

		g
550.1041	Hook, 90° short, 180° short bent	11
550.1042	Hook, 45° long, 90° long	11

Magnet and hook tool set

- Ideal for removing and use of O rings and seals
- With telescopic magnet attachment and replaceable hook
- Storage compartment in the handle for the various attachments
- Special tool steel

		g
550.1080	6 pcs	Magnet and hook tool set	70

consists of:

		g
550.1081	Basic unit	35
550.1082	Telescopic magnet attachment, 90 - 390 mm	13
550.1083	Hook attachment, straight, 75 mm	5
550.1084	Hook attachment, 90°, 75 mm	5
550.1085	Hook attachment, 120°, 75 mm	5
550.1086	Hook attachment, lateral bend, 75 mm	5

T hook, S form small

- Ideal for removing and use of O rings and seals
- Special tool steel

	Length mm	g
550.1074	120,0	42

T hook, S form large

- Ideal for removing and use of O rings and seals
- Special tool steel

	Length mm	g
550.1075	165,0	96

Hook, straight

- Ideal for removing and use of O rings and seals
- Two component handle
- Special tool steel

	Length mm	g
550.1046	140,0	27

Hook, 45°

- Ideal for removing and use of O rings and seals
- Two component handle
- Special tool steel

	Length mm	g
550.1047	140,0	27

Hook, 90°

- Ideal for removing and use of O rings and seals
- Two component handle
- Special tool steel

	Length mm	g
550.1048	140,0	27

Hook, 135°

- Ideal for removing and use of O rings and seals
- Two component handle
- Special tool steel

	Length mm	g
550.1049	140,0	27

Hook, straight

- Ideal for removing and use of O rings and seals
- Special tool steel

	Length mm	g
550.1071	215,0	91

Hook, 90°

- Ideal for removing and use of O rings and seals
- Special tool steel

	Length mm	g
550.1072	240,0	105

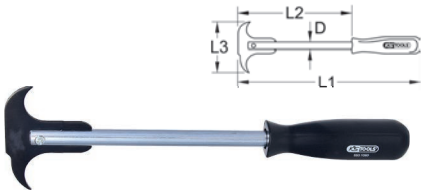
Hook, sickle

- Ideal for removing and use of O rings and seals
- Special tool steel

	Length mm	g
550.1073	185,0	88

Gasket ring dismantling tool

- sickle-shaped
- For the removal of washers
- Long durability through hardened leverage
- Universal usage
- One component handle
- Burnished
- Chrome vanadium



	L1 mm	L2 mm	L3 mm	D mm	g
550.1060	300,0	195,0	85,0	12,0	380

Hook tool set

- Ideal for removing and use of O rings and seals
- Two component handle
- Special tool steel

			g
550.1045	4 pcs	Hook tool set	120

consists of:

		g
550.1046	Hook, straight	27
550.1047	Hook, 45° offset	27
550.1048	Hook, 90° offset	27
550.1049	Hook, 135° bent	27

Master hook tool set

- Ideal for removing and use of O rings and seals
- Special tool steel

			g
550.1070	9 pcs	Master hook tool set	680

consists of:

		g
550.1046	Hook, straight	27
550.1047	Hook, 45° offset	27
550.1048	Hook, 90° offset	27
550.1049	Hook, 135° bent	27
550.1071	Hook, large, straight	91
550.1072	Hook, large, 90° bent	105
550.1073	Hook, large, sickle	88
550.1074	T hook, S form small, 120mm	42
550.1075	T hook, S form large, 165mm	96

HANDLE PUNCH

Handle punch

- According to DIN 7200 form A
- Strong forged form
- Pipe polished ground
- For punching holes and production of washers and gasket rings
- Interior conical for removing the blank head
- Shaft machined
- Red lacquer
- Cutting edge hardened
- Special tool steel

	L mm	D mm	D	kg
129.2002	100,0	2,0		0,04
129.2003	100,0	3,0		0,04
129.2004	105,0	4,0		0,04
129.2005	110,0	5,0		0,05
129.2006	110,0	6,0		0,05
129.2007	115,0	7,0		0,05
129.2008	120,0	8,0		0,07
129.2009	120,0	9,0		0,07
129.2010	130,0	10,0		0,07
129.2011	130,0	11,0		0,10
129.2012	130,0	12,0	15/32”	0,12
129.2013	140,0	13,0	1/2”	0,16
129.2014	140,0	14,0	9/16”	0,16
129.2015	140,0	15,0	19/32”	0,16
129.2016	145,0	16,0	5/8”	0,17
129.2017	145,0	17,0	21/32”	0,21
129.2018	145,0	18,0	11/16”	0,21
129.2019	145,0	19,0	3/4”	0,21
129.2020	160,0	20,0	25/32”	0,29
129.2021	160,0	21,0	13/16”	0,29
129.2022	160,0	22,0	7/8”	0,30
129.2023	170,0	23,0	29/32”	0,33
129.2024	170,0	24,0	15/16”	0,34
129.2025	170,0	25,0	1”	0,36
129.2026	170,0	26,0	1.1/32”	0,36
129.2027	175,0	27,0	1.1/16”	0,45
129.2028	175,0	28,0	1.3/32”	0,46
129.2029	175,0	29,0	1.1/8”	0,46
129.2030	190,0	30,0	1.3/16”	0,56
129.2031	190,0	31,0		0,56
129.2032	192,0	32,0	1.1/4”	0,56
129.2033	195,0	33,0		0,64
129.2034	195,0	34,0	1.5/16”	0,65
129.2035	195,0	35,0	1.3/8”	0,66
129.2036	195,0	36,0		0,66
129.2037	205,0	37,0	1.7/16”	0,75
129.2038	205,0	38,0	1.1/2”	0,78
129.2039	205,0	39,0		0,80
129.2040	205,0	40,0	1.9/16”	0,81
129.2041	205,0	41,0	1.5/8”	0,82
129.2042	220,0	42,0		0,98
129.2043	220,0	43,0	1.11/16”	0,98
129.2044	220,0	44,0		0,98
129.2045	220,0	45,0	1.3/4”	1,00
129.2046	220,0	46,0	1.13/16”	1,10
129.2047	230,0	47,0	1.7/8”	1,16
129.2048	230,0	48,0		1,18
129.2049	230,0	49,0	1.15/16”	1,19
129.2050	230,0	50,0		1,20
129.2051	230,0	51,0	2”	1,20
129.2052	240,0	52,0		1,85
129.2053	240,0	53,0		1,85
129.2054	240,0	54,0	2.1/8”	1,85
129.2055	240,0	55,0		1,85
129.2056	260,0	56,0	2.3/16”	1,85
129.2057	260,0	57,0		1,85
129.2058	260,0	58,0	2.1/4”	1,85
129.2059	260,0	59,0		1,85
129.2060	260,0	60,0		1,85
129.2061	260,0	61,0		1,85
129.2062	260,0	62,0		1,85
129.2063	260,0	63,0		1,85
129.2064	260,0	64,0	2.1/2”	1,85
129.2065	260,0	65,0		3,65
129.2066	260,0	66,0		3,65
129.2067	300,0	67,0		3,65
129.2068	300,0	68,0		3,65
129.2069	300,0	69,0		3,65
129.2070	300,0	70,0	2.3/4”	3,65
129.2071	300,0	71,0		3,65
129.2072	300,0	72,0		3,65
129.2073	300,0	73,0		3,65
129.2074	300,0	74,0		3,65
129.2075	300,0	75,0		4,30
129.2076	300,0	76,0	3”	4,30
129.2077	340,0	77,0		4,30
129.2078	340,0	78,0		4,30
129.2079	340,0	79,0		4,30
129.2080	340,0	80,0		4,30
129.2085	340,0	85,0		4,30
129.2090	345,0	90,0		5,15
129.2095	345,0	95,0	3.3/4”	8,50
129.2100	380,0	100,0		8,50
129.2105	380,0	105,0		8,50
129.2110	380,0	110,0		8,50
129.2115	380,0	115,0	4.1/2”	8,50
129.2120	380,0	120,0		8,50

Arc punch set

- According to DIN 7200 form A
- Strong forged form
- Pipe polished ground
- For punching holes and production of washers and gasket rings
- Interior conical for removing the blank head
- Shaft machined
- Red lacquer
- Cutting edge hardened
- Special tool steel

			kg
129.2102	7 pcs	3 - 5 - 7 - 8 - 10 - 11 - 13 mm	0,72
129.2103	8 pcs	3 - 5 - 7 - 8 - 10 - 13 - 16 - 19 mm	1,00
129.2106	8 pcs	6 - 8 - 10 - 12 - 14 - 16 - 20 - 25 mm	1,51
129.2104	10 pcs	3 - 5 - 7 - 8 - 10 - 13 - 16 - 19 - 22 - 25 mm	1,00

ROUND HOLE PUNCH

Round hole punch

- According to DIN 7200 Form B
- Strong forged form
- Pipe polished ground
- For punching holes and production of washers and gasket rings
- Interior conical for removing the blank head
- Red lacquer
- Cutting edge hardened
- Special tool steel

	L mm	D mm	g
129.2302	105,0	2,0	22
129.2303	105,0	3,0	28
129.2304	110,0	4,0	35
129.2305	115,0	5,0	47
129.2306	115,0	6,0	56
129.2307	120,0	7,0	56
129.2308	120,0	8,0	71
129.2309	125,0	9,0	71
129.2310	125,0	10,0	82
129.2311	125,0	11,0	110
129.2312	130,0	12,0	130
129.2313	130,0	13,0	140
129.2314	135,0	14,0	170
129.2315	135,0	15,0	180
129.2316	140,0	16,0	200
129.2317	140,0	17,0	220
129.2318	150,0	18,0	280
129.2319	150,0	19,0	300
129.2320	156,0	20,0	350
129.2321	156,0	21,0	380
129.2322	156,0	22,0	430
129.2323	156,0	23,0	460
129.2324	160,0	24,0	550
129.2325	160,0	25,0	580

Round hole punch set

- According to DIN 7200 Form B
- Strong forged form
- Pipe polished ground
- For punching holes and production of washers and gasket rings
- Interior conical for removing the blank head
- Shaft machined
- Red lacquer
- Cutting edge hardened
- Special tool steel

			g	
129.2113	7 pcs	5 - 6 - 7 - 10 - 11 - 12 mm	620	
129.2108	7 pcs	3 - 5 - 7 - 8 - 10 - 11 - 13 mm	730	
129.2109	8 pcs	3 - 5 - 7 - 8 - 10 - 13 - 16 - 19 mm	1260	
129.2107	9 pcs	2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 mm	640	
129.2111	9 pcs	3 - 5 - 7 - 8 - 10 - 13 - 16 - 19 - 22 mm	1760	
129.2112	10 pcs	3 - 5 - 7 - 8 - 10 - 13 - 16 - 19 - 22 - 25 mm	2360	

HOLE PUNCHES

Hole punch set

- For punching out rings and for making discs and holes
- Punches can also be used in pairs
- Chrome vanadium
- In durable plastic storage case

Suitable for: foam rubber, cardboard, leather, rubberfibrous materials, plastics and lead

			kg	
129.0100	16 pcs	Hole punch set	1,10	

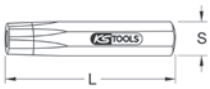
consists of:

		g	
129.0101	Three-size holder for seal punches	300	
129.0103	Hole punch, thread holder, 3mm	10	
129.0104	Hole punch, thread holder, 4mm	10	
129.0106	Hole punch, thread holder, 6mm	10	
129.0108	Hole punch, thread holder, 8mm	10	
129.0110	Hole punch, thread holder, 10mm	10	
129.0112	Hole punch, punching iron mandrel, 12mm	20	
129.0114	Hole punch, punching iron mandrel, 14mm	20	
129.0116	Hole punch, punching iron mandrel, 16mm	20	
129.0118	Hole punch, punching iron mandrel, 18mm	20	
129.0120	Hole punch, punching iron mandrel, 20mm	20	
129.0122	Hole punch, punching iron mandrel, 22mm	40	
129.0124	Hole punch, punching iron mandrel, 24mm	40	
129.0126	Hole punch, punching iron mandrel, 26mm	40	
129.0128	Hole punch, punching iron mandrel, 28mm	40	
129.0130	Hole punch, punching iron mandrel, 30mm	40	

RIVET PROCESSING TOOL

Rivet setters

- Working ends polished ground and clear lacquered
- Suitable for rivets according to DIN 660 / 661 / 662 / 674
- Chrome vanadium



	Ø rivet mm	L mm	S mm	g	
129.2400	2,0	100,0	10,0	60	
129.2401	3,0	100,0	10,0	60	
129.2402	4,0	100,0	12,0	90	
129.2403	5,0	110,0	14,0	135	
129.2404	6,0	110,0	14,0	135	
129.2405	7,0	120,0	16,0	190	
129.2406	8,0	120,0	16,0	190	
129.2407	9,0	130,0	18,0	265	
129.2408	10,0	130,0	20,0	325	

Rivet setter set

- According to DIN 7200 Form B
- Suitable for rivets according to DIN 660 / 661 / 662 / 674
- Strong forged form
- Pipe polished ground
- For punching holes and production of washers and gasket rings
- Interior conical for removing the blank head
- Shaft machined
- Red lacquer
- Cutting edge hardened
- Special tool steel
- In plastic support bracket

			g	
129.2420	5 pcs	2 - 3 - 4 - 5 - 6 mm	520	

Rivet setter and rivet header, combined

- 8-point
- Premium tempered and hardened steel
- Lacquered
- Chrome vanadium

	Ø rivet mm	L mm	B mm	H mm	g	
129.2210	2,0	100,0	16,0	10,0	115	
129.2211	3,0	100,0	16,0	10,0	115	
129.2212	4,0	100,0	20,0	10,0	145	
129.2213	5,0	110,0	25,0	12,0	215	
129.2214	6,0	120,0	25,0	15,0	310	
129.2215	7,0	120,0	30,0	15,0	330	
129.2216	8,0	140,0	40,0	20,0	680	
129.2217	9,0	160,0	40,0	25,0	950	
129.2218	10,0	160,0	40,0	25,0	940	

RIVET SETS

Rivet head setter

- Working ends polished ground and clear lacquered
- Suitable for rivets according to DIN 660
- Chrome vanadium

	Ø rivet mm	L mm	S mm	g	
129.2199	2,0	100,0	10,0	60	
129.2200	3,0	100,0	10,0	60	
129.2201	4,0	100,0	12,0	90	
129.2202	5,0	110,0	14,0	135	
129.2203	6,0	110,0	16,0	175	
129.2204	7,0	120,0	18,0	240	
129.2205	8,0	120,0	20,0	305	
129.2206	9,0	130,0	22,0	400	
129.2207	10,0	130,0	24,0	480	

Rivet head setter set

- Working ends polished ground and clear lacquered
- Suitable for rivets according to DIN 660
- Chrome vanadium
- In plastic support bracket

			g	
129.2209	5 pcs	2 - 3 - 4 - 5 - 6 mm	520	

FLATTENERS

Tapware assembly and dismantling set

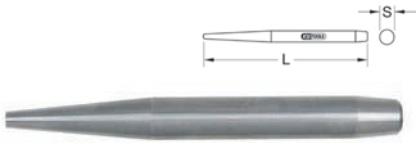
- 8-point
- Quenched and tempered
- Special tool steel

	L mm	S mm	g	
156.0770	170,0	16,0	510	

TAPER PUNCHES

Punch drawbore pin

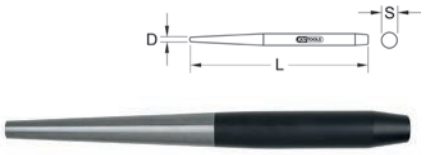
- Hardened through the whole length
- Cone polished
- Carbon manganese silicon steel



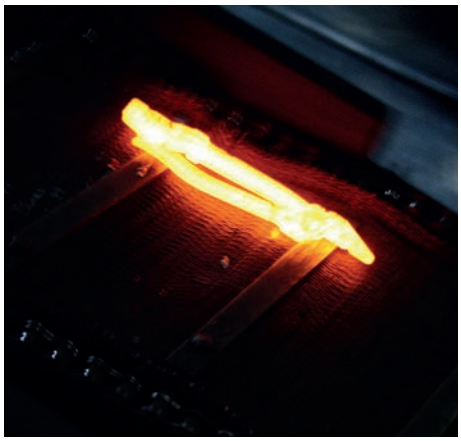
	L mm	S mm	kg
129.2161	110,0	11,0	0,07
129.2162	120,0	13,0	0,11
129.2163	150,0	15,0	0,19
129.2164	170,0	17,0	0,27
129.2165	170,0	19,0	0,34
129.2166	190,0	21,0	0,45
129.2167	200,0	23,0	0,47
129.2168	200,0	25,0	0,68
129.2169	210,0	27,0	0,84
129.2170	210,0	28,0	0,91
129.2171	230,0	29,0	1,06
129.2172	230,0	31,0	1,21
129.2173	250,0	33,0	1,52
129.2174	280,0	34,0	1,80
129.2175	280,0	36,0	2,02
129.2176	280,0	37,0	2,14

Assembly drawbore pin

- Hardened through the whole length
- Cone polished
- Carbon manganese silicon steel

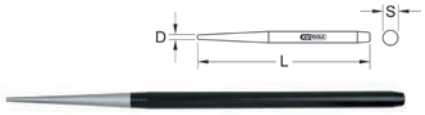


	L mm	D mm	S mm	g
129.2177	120,0	5,0	11,0	75
129.2178	120,0	5,0	13,0	90
129.2179	150,0	6,0	15,0	165
129.2180	170,0	7,0	17,0	240
129.2181	170,0	7,0	19,0	300
129.2182	190,0	8,0	21,0	410
129.2183	190,0	9,0	23,0	485
129.2184	200,0	10,0	25,0	585
129.2185	210,0	12,0	28,0	805
129.2186	230,0	12,0	31,0	1050
129.2187	250,0	13,0	34,0	1345
129.2188	270,0	14,0	37,0	1720



Assembly punch

- Hardened through the whole length
- Cone polished
- Chrome vanadium

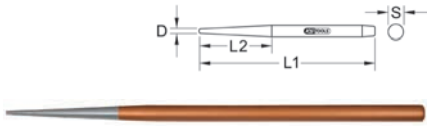


	L mm	D mm	S mm	g
129.2189	180,0	5,0	12,0	110
129.2190	200,0	6,0	13,0	150
129.2191	200,0	8,0	16,0	220
129.2192	200,0	9,0	20,0	340
129.2193	230,0	10,0	22,0	460
129.2194	250,0	11,0	24,0	620
129.2195	280,0	12,0	27,0	870
129.2196	315,0	14,0	30,0	1260
129.2197	340,0	15,0	32,0	1570
129.2198	380,0	16,0	36,0	2230

BENDING IRONS AND PRY BARS

Pry bar

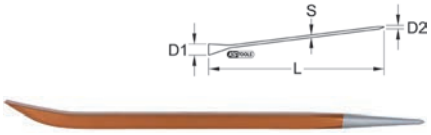
- Round
- Quenched and tempered
- Forged
- Cone polished
- Special tool steel



	D mm	L1 mm	L2 mm	S mm	g
129.2220	5,5	500,0	170,0	20,0	970

Bending iron/pry bar

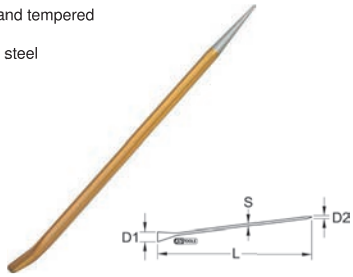
- 4 point
- Quenched and tempered
- Forged
- Cone polished
- Special tool steel



	D1 mm	D2 mm	L mm	S mm	g
129.2221	14,0	1,0	400,0	14,0	500

Bending iron/pry bar

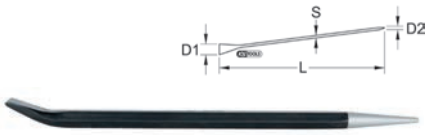
- Round
- Quenched and tempered
- Forged
- Special tool steel



	D1 mm	D2 mm	L mm	S mm	kg
129.2219	22,0	5,0	605,0	19,0	1,30

Bending iron/pry bar

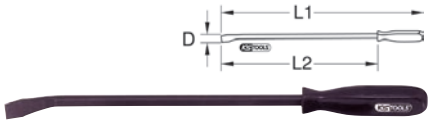
- 6 point
- Quenched and tempered
- Forged
- Cone polished
- Special tool steel



	D1 mm	D2 mm	L mm	S mm	g
129.2222	22,0	5,0	405,0	16,0	650

Pry bar

- Best suited for and breakdown and installation work
- For pressure testing securely-fitted parts
- Ergonomic single component handle
- Hardened through the whole length
- Chrome molybdenum



	D mm	L1 mm	L2 mm	g
911.8101	11,0	200,0	115,0	130
911.8102	15,0	300,0	185,0	220
911.8103	18,0	450,0	320,0	420
911.8104	18,0	600,0	470,0	560

Pry bar sets

- Best suited for and breakdown and installation work
- For pressure testing securely-fitted parts
- Ergonomic single component handle
- Hardened through the whole length
- Chrome molybdenum

			kg
911.8100	4 pcs	11 x 115 mm - 15 x 185 mm - 18 x 320 mm - 18 x 470 mm	1,33

Flexible roll head pry bar

- Extremely versitile and robust execution
- Varible adjustable roll head
- Maximum power transmission in the narrowest area
- Optimal leverage in minimal work area
- Special tool steel

	Length mm	Assembly levels	g	
911.8176	250,0	5	385	
911.8177	300,0	5	455	
911.8178	400,0	5	565	

Flexible roll head pry bar set

- Extremely versitile and robust execution
- Varible adjustable roll head
- Maximum power transmission in the narrowest area
- Optimal leverage in minimal work area
- Special tool steel

			g	
911.8175	3 pcs	Flexible roll head pry bar set	1,50	

consists of:

		g	
911.8176	Flexible roll head pry bar, 250 mm	385	
911.8177	Flexible roll head pry bar, 300 mm	455	
911.8178	Flexible roll head pry bar, 400 mm	565	

Pry bar

- Angular lever end guarantees non slip surface
- Ideally suited for and breakdown and installation work
- Go through blade and hammer cap
- Suitable for the testing of defective bearings
- Two component handle
- Special tool steel
- In durable plastic storage case

	Bend radius	Length mm	kg	
911.8411	0°	900,0	1,70	
911.8412	45°	900,0	1,75	
911.8413	75°	600,0	1,17	
911.8414	90°	600,0	1,20	

Pry bar

- Angular lever end guarantees non slip surface
- Ideally suited for and breakdown and installation work
- Go through blade and hammer cap
- Suitable for the testing of defective bearings
- Two component handle
- Special tool steel
- In durable plastic storage case

	Bend radius	Length mm	kg	
911.8415	45°	1150,0	4,75	

Pry bar sets

- Angular lever end guarantees non slip surface
- Ideally suited for and breakdown and installation work
- Go through blade and hammer cap
- Suitable for the testing of defective bearings
- Two component handle
- Special tool steel
- In durable plastic storage case

			kg	
911.8410	4 pcs	Pry bar sets	8,70	

consists of:

		kg	
911.8411	Pry bar, 0°, 900mm	1,70	
911.8412	Pry bar, 45°, 900mm	1,75	
911.8413	Pry bar, 75°, 600mm	1,17	
911.8414	Pry bar, 90°, 600mm	1,20	
911.8415	Pry bar, 45°, 1150mm	4,75	

Telescopic flexible roll head pry bar

- Lever extension with push-button in steps
- Roller head adjustable in steps
- Extra narrow, with recessed push button
- Maximum power transmission in the narrowest area
- Optimal leverage in minimal work area
- Special tool steel

	L mm	H mm	B mm	g	
911.8186	325-460	90,0	12,0	780	
911.8187	600-915	120,0	20,0	1900	
911.8188	865-1350	145,0	24,0	4260	

Telescopic flexible roll head pry bar set

- Lever extension with push-button in steps
- Roller head adjustable in steps
- Extra narrow, with recessed push button
- Maximum power transmission in the narrowest area
- Optimal leverage in minimal work area
- Special tool steel

			kg	
911.8185	3 pcs	325-460 - 600-915 - 865-1350 mm	6,94	

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PIPE CUTTERS

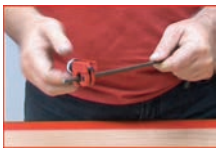
Ratchet pipe cutter for copper pipes

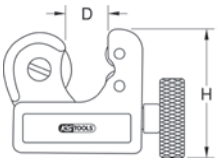
- Ideal for confined spaces
- Automatic cutting after each rotation
- Metal housing

	D mm	H mm	Metal	V²A	Plastic	g
104.2015	15,0	56,0	104.2001	-	-	180
104.2016	16,0	60,0	104.2001	-	-	180
104.2022	22,0	68,0	104.2001	-	-	240
104.2028	28,0	70,0	104.2001	-	-	194

Mini pipe cutter

- For copper, brass and thin walled steel tubes
- With 2 support rollers
- V²A cutter can be retrofitted
- With hard chrome plated knurled knob
- Metal housing
- Special tool steel

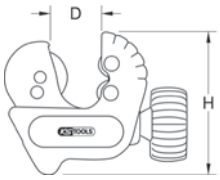




	D mm	H mm	Metal	V²A	Plastic	g
101.1000	3,0 - 16,0	35,0	101.1001	101.1002	-	100
101.2000	3,0 - 22,0	40,0	101.1001	101.1002	-	120

Mini pipe cutter

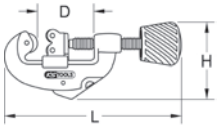
- Ergonomically designed
- For copper, brass and thin walled steel tubes
- With 2 support rollers
- With large knurled knob
- V²A cutter can be retrofitted
- Metal housing
- Special tool steel



	D mm	H mm	Metal	V²A	Plastic	g
101.5000	3,0 - 28,0	55,0	101.1001	101.1002	-	260
101.5016	3,0 - 16,0	41,0	101.1001	101.1002	-	120
101.5022	3,0 - 22,0	50,0	101.1001	101.1002	-	120

Pipe cutter

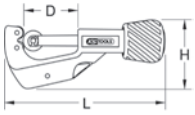
- With folding internal deburrer
- Includes spare wheel under the cover cap on the rotary handle
- With 2 support rollers
- V²A cutter can be retrofitted
- With large knurled knob
- Metal housing
- Special tool steel



	D mm	H mm	L mm	Metal	V²A	Plastic	g
102.1000	3,0 - 30,0	55,0	150,0	101.1001	101.1002	-	300

Telescopic pipe cutter

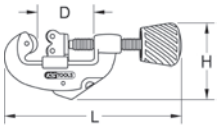
- With folding internal deburrer
- Includes spare wheel under the cover cap on the rotary handle
- With 2 support rollers
- V²A cutter can be retrofitted
- With large knurled knob
- Metal housing
- Special tool steel



	D mm	H mm	L mm	Metal	V²A	Plastic	g
103.1000	3,0 - 32,0	57,0	141,0	101.1001	101.1002	-	270

Pipe cutter

- With folding internal deburrer
- Includes spare wheel under the cover cap on the rotary handle
- With 2 support rollers
- V²A cutter can be retrofitted
- With large knurled knob
- Metal housing
- Special tool steel



	D mm	H mm	L mm	Metal	V²A	Plastic	g
104.1000	7,0 - 39,0	78,0	210,0	104.1001	101.1002	-	425

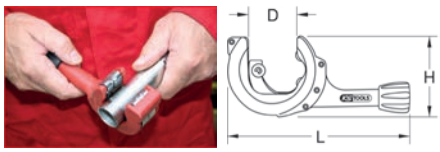
Ratchet pipe cutter

- With 2 support rollers
- With folding internal deburrer
- V²A cutter can be retrofitted
- With knurled knob
- Plastic housing

	D mm	H mm	L mm	Metal	V²A	Plastic	g
104.5000	3,0 - 13,0	60,0	120,0	104.5001	104.5005	-	180
104.5002	8,0 - 28,5	75,0	175,0	104.5003	104.5052	-	380
104.5022	6,0 - 23,0	65,0	160,0	222.0665	103.2002	-	360

Ratchet pipe cutter

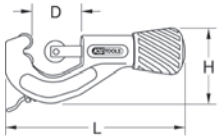
- With 2 support rollers
- Cutting depth max. 3 mm
- V²A cutter can be retrofitted
- Ideal for confined spaces
- Robust ratchet mechanism
- With large knurled knob
- Plastic housing
- Ratchet mechanism from special steel



	D mm	H mm	L mm	Metal	V²A	Plastic	g
104.5060	12,0 - 35,0	70,0	180,0	104.5052	104.5054	104.5051	520
104.5050	28,0 - 67,0	110,0	250,0	104.5052	104.5054	104.5051	1032

Telescopic pipe cutter

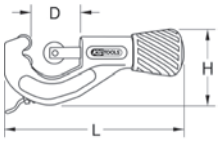
- With removeable internal deburrer
- Includes spare wheel under the cover cap on the rotary handle
- With 2 support rollers
- With large knurled knob
- Metal housing
- Special tool steel



	D mm	H mm	L mm	Metal	V²A	Plastic	g
103.5000	6,0 - 38,0	60,0	156,0	103.5001	-	-	500

Telescopic pipe cutter

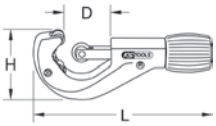
- With removeable internal deburrer
- Includes spare wheel under the cover cap on the rotary handle
- With 2 support rollers
- With large knurled knob
- Metal housing
- Special tool steel



	D mm	L mm	H mm	Metal	V²A	g
103.5010	3,0 - 38,0	165,0	68,0	103.5011	-	500

Telescopic pipe cutter

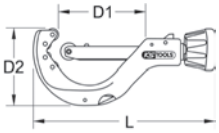
- With removeable internal deburrer
- Includes spare wheel under the cover cap on the rotary handle
- Accurate telescopic guide
- With 4 support rollers
- With large knurled knob
- Metal housing
- Special tool steel



	D mm	H mm	L mm	Metal	V²A	Plastic	g
103.5050	3,0 - 42,0	50,0	180,0	103.5001	-	-	450

Automatic ratchet pipe cutter for copper pipe

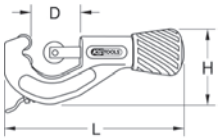
- With folding internal deburrer
- Includes spare wheel under the cover cap on the rotary handle
- Quick through ratchet telescopic guide with automatic spring return
- Plastic cutter can be retrofitted
- With 4 support rollers
- With large knurled knob
- Metal housing
- Special tool steel



	D mm	H mm	L mm	Metal	V²A	Plastic	kg
222.0750-1	15,0 - 80,0	100,0	250,0	222.0752	-	222.0751	0,80
222.1250-1	50,0 - 140,0	150,0	350,0	222.0752	-	222.1251	1,54

Telescopic pipe cutter for stainless steel (Inox) pipes

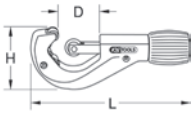
- With removeable internal deburrer
- Includes spare wheel under the cover cap on the rotary handle
- With 2 support rollers
- With large knurled knob
- Metal housing
- Special tool steel



	D mm	L mm	H mm	Metal	V²A	g
103.5010I	3,0 - 38,0	165,0	68,0	-	103.5011I	342

Telescopic pipe cutter for stainless steel (Inox) pipes

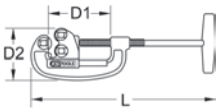
- With removeable internal deburrer
- Accurate telescopic guide
- Includes spare wheel under the cover cap on the rotary handle
- With 4 support rollers in stainless steel
- With large knurled knob
- Metal housing
- Special tool steel



	D mm	H mm	L mm	Metal	V²A	Plastic	g
103.5050i	3,0 - 42,0	50,0	180,0	-	103.5002	-	500

Steel pipe cutter

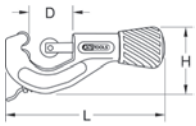
- T-handle for adjusting the working range
- Optimum power transfer
- Cutting depth max. 19 mm
- Metal housing
- Special tool steel



	Imperial tube Ø inch	H mm	L mm	Metal	V²A	Plastic	kg
110.1000	1/8"-2	108,0	378,0	110.1001	-	-	2,50
110.1014	1/8"-1.1/4	82,0	265,0	110.1015	-	-	1,50

Telescopic pipe cutter for stainless steel (Inox) pipes

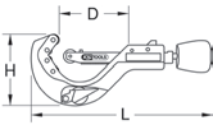
- With removeable internal deburrer
- Includes spare wheel under the cover cap on the rotary handle
- With 2 support rollers
- With large knurled knob
- Metal housing
- Special tool steel



	D mm	H mm	L mm	Metal	V²A	Plastic	g
103.5000i	6,0 - 38,0	60,0	156,0	-	103.5002	-	500

Automatic ratchet pipe cutter for copper pipe

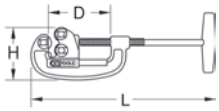
- With folding internal deburrer
- Includes spare wheel under the cover cap on the rotary handle
- Quick through ratchet telescopic guide with automatic spring return
- V²A cutter can be retrofitted
- With 4 support rollers
- With large knurled knob
- Metal housing
- Special tool steel



	D mm	H mm	L mm	Metal	V²A	Plastic	g
222.0660-1	6,0 - 64,0	90,0	225,0	222.0665	103.2002	222.0666	500

Steel pipe cutter for stainless steel (Inox) pipes

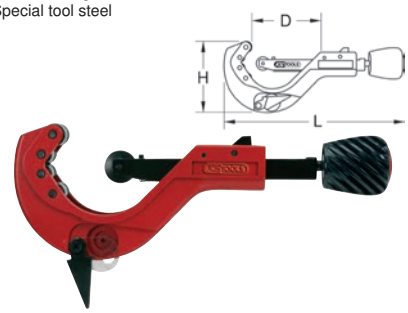
- T-handle for adjusting the working range
- Optimum power transfer
- Cutting depth max. 19 mm
- Metal housing
- Special tool steel



	Imperial tube Ø inch	H mm	L mm	Metal	V²A	Plastic	kg
110.1000i	1/8"-2	108,0	378,0	-	110.1002	-	2,50
110.1014i	1/8"-1.1/4	82,0	265,0	-	110.1016	-	1,50

Automatic ratchet pipe cutter for plastic pipe

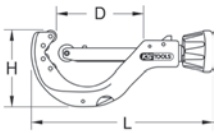
- For PE, PP and PVDF pipes
- With folding internal deburrer
- Includes spare wheel under the cover cap on the rotary handle
- Quick through ratchet telescopic guide with automatic spring return
- Steel cutting wheel retrofittable
- 4 support rollers
- With 2 support rollers
- With large knurled knob
- Metal housing
- Special tool steel



	D mm	H mm	L mm	Metal	V²A	Plastic	g
222.0660	6,0 - 64,0	90,0	225,0	222.0665	-	222.0666	500

Automatic ratchet pipe cutter for copper pipe

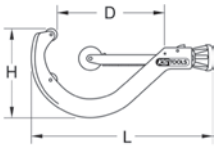
- For PE, PP and PVDF pipes
- With folding internal deburrer
- Quick through ratchet telescopic guide with automatic spring return
- Steel cutting wheel retrofittable
- 4 support rollers
- With 2 support rollers
- With large knurled knob
- Metal housing
- Special tool steel



	D mm	H mm	L mm	Metal	V²A	Plastic	kg
222.0750	6,0 - 76,0	100,0	250,0	222.0752	-	222.0751	0,80

Automatic ratchet pipe cutter for plastic pipe

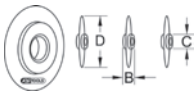
- For PE, PP and PVDF pipes
- Quick through ratchet telescopic guide with automatic spring return
- Metal cutter can be retrofitted
- Cutting depth max. 19 mm
- With 2 support rollers
- With large knurled knob
- Metal housing
- Special tool steel



	D mm	H mm	L mm	Metal	V²A	Plastic	kg
222.1250	50,0 - 140,0	150,0	350,0	222.0752	-	222.1251	1,54
222.1680	100,0 - 168,0	190,0	385,0	-	-	222.1251	1,60

Replacement cutting wheel for pipe cutters

- Special tool steel



	D mm	B mm	C mm	Metal	V²A	Plastic	g
101.1001	18,2	3,0	4,8	x	-	-	40
101.1002	18,0	3,0	4,8	-	x	-	30
103.2002	18,0	6,3	4,8	-	x	-	5
103.5001	20,0	4,9	5,1	x	-	-	10
103.5002	20,0	4,9	5,1	-	x	-	10
103.5011I	20,0	5,0	14,0	-	x	-	10
103.5011	20,0	5,0	5,0	x	-	-	5
104.1001	18,0	6,0	11,0	x	-	-	10
104.2001	15,0	3,0	9,0	x	-		10
104.5001	15,0	3,0	9,0	x	-	-	15
104.5003	18,0	6,3	10,9	-	-	-	40
104.5005	15,3	3,0	4,5	-	x	-	10
104.5051	25,0	6,2	4,8	-	-	x	45
104.5052	19,0	6,2	4,8	-	-	-	55
104.5054	23,0	6,0	11,0	-	x	-	15
110.1001	31,4	18,9	8,3	x	-	-	40
110.1002	31,4	18,9	8,3	-	x	-	30
110.1015	25,6	13,5	7,5	-	-	-	30
110.1016	25,6	13,5	7,5	-	x	-	30
222.0665	18,2	6,2	4,8	x	-	-	50
222.0666	23,5	6,2	4,8	-	-	x	5
222.0751	44,6	11,0	8,0	-	-	x	15
222.0752	23,0	10,9	8,6	x	-	-	20
222.1251	53,0	11,0	8,0	-	-	x	25

Grip chain pipe cutter

- With the possibility to adjust the tension through wing nut
- Small working angle through forward and backward movements
- Easy to operate
- Special tool steel

	Ø mm	Chain length	Replacement chain	g
150.1510	19,0-83,0	330 mm	150.1501	800

Stainless Steel Grip Chain Tube Cutter

- For stainless steel (Inox) of pipes
- With the possibility to adjust the tension through wing nut
- Small working angle through forward and backward movements
- Easy to operate
- Special tool steel

	Ø mm	Chain length	Replacement chain	g
150.1515	19,0-83,0	330 mm	150.1502	800

Scissor set for hoses and plastic pipes

- ideal for angle-precise and clean cutting of rubber hoses, plastic pipes and various plastic profiles, such as cable ducts
- for rubber hoses with or without textile cover
- fittings for 16, 19 and 25 mm pipes included
- with prism for 90° profile
- with adjustable angle stop up to 45°
- In durable plastic storage case

			g
123.0075	7 pcs	Scissor set for hoses and plastic pipes	490

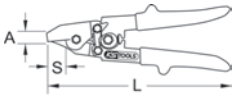
consists of:

		g
123.0076	scissor-shaped with blades	290
123.0077	fitting for Ø 16 and 19 mm	30
123.0078	fitting for Ø 25 mm	78
123.0079	prism for 90° profile	63
123.0084	straight fitting	37
123.0086	angular stop	36
151.2604	Hexagon key wrench phosphate finish, short, 4mm	10

CARTRIDGE GUNS

Cartridge tip pliers

- Ideally suited to cut the ejection nozzle of cartridges or bags as required
- With toothed cutting blade made from solid steel
- Safety locking device
- Allows for the required V cut for windscreen seals and therefore optimised adhesive trim
- Easy to use
- With PVC dipped handle
- Chrome vanadium



	A mm	L mm	S mm	g
140.2220	33,0	210,0	20,0	420

Hand gun for double cartridges

- For two component adhesives
- For gluing front windscreens as well as most rear and side windows
- Also suitable for double cartridge systems with epoxy hardeners
- Exact dosing
- Cornered cartridge seating
- Robust metal execution

	Length mm	Height mm	g
980.1080	300,0	170,0	500

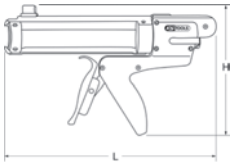
2-component manual cartridge pistol

- with 2 guide rods
- For working with cartridges
- Quick and easy cartridge replacement
- also applicable for adhesives, sealants, lubricants etc.
- Ergonomically designed handle
- with pressure relief, prevents repressing of the pressure stamp
- with eye for attachment of carabiner or to the rope
- Sturdy design

		Ø Spindle mm	L mm	H mm	g
980.2010	310 ml	40,0	335,0	210,0	660
980.2000	380 ml	55,0	340,0	220,0	615

Rodless cartridge gun 310 ml

- No protruding push rod and therefore very suitable for confined working environments
- For working with cartridges
- Quick and easy cartridge replacement
- For gluing front windscreens as well as most rear and side windows
- Can also be used for bodywork sealant, seam adhesive etc.
- Centralised grip for optimal load distribution
- With integrated steel spring band
- Includes level indicator display
- With belt connector
- Metal cartridge holder
- Soft grip handle



		L mm	H mm	g
980.3050	310 ml	340,0	200,0	825

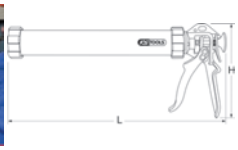
Hand cartridge gun

- For working with cartridges and soft packs
- Quick and easy cartridge replacement
- For gluing front windscreens as well as most rear and side windows
- Can also be used for bodywork sealant, seam adhesive etc.
- With a sturdy aluminium cylinder
- Plastic housing
- Robust end part

		L mm	H mm	Replacement nozzle	g
980.1000	310 ml	340,0	210,0	980.1001	750

Hand cartridge gun

- For working with cartridges and soft packs
- Quick and easy cartridge replacement
- For gluing front windscreens as well as most rear and side windows
- Can also be used for bodywork sealant, seam adhesive etc.
- With a sturdy aluminium cylinder
- Plastic housing
- Robust end part



		L mm	H mm	Replacement nozzle	kg
980.3000	600 ml	480,0	210,0	980.1001	1,10

Cordless cartridge gun 310 ml

- Handy and ergonomic dual component housing
- Ideal for glue, silicone or acrylic based cartridges
- For gluing front windscreens as well as most rear and side windows
- Can also be used for bodywork sealant, seam adhesive etc.
- Drip-free mechanism
- Step-free controllable feed
- Carbon brushes interchangeable
- High performance lithium-ion battery
- Processing capacity per battery charge at ~ 20 °C, up to 15 cartridges
- Longer running time through higher load capacity
- Fast charging function (1 hour)
- Automatic turn off charging station
- With a sturdy aluminium cylinder
- Blow mould plastic housing
- In durable plastic storage case

Technical data:

Electrical Voltage:	10,8 V
Capacity of the unit:	310 ml
Propulsion without load:	6,1 mm / sec
Output pressure:	392 kgf
Charging time:	1 hour
Rechargeable battery:	10,8 V - 2,0 Ah

	L mm	B mm	H mm	Spare carbon brushes set	Battery pack	Number of Charger batteries		kg
515.3569	410,0	138,0	245,0	515.3595	515.3592	0	0	3,60
515.3570	410,0	138,0	245,0	515.3595	515.3592	1	1	4,50
515.3571	410,0	138,0	245,0	515.3595	515.3592	2	1	4,70

Cordless cartridge gun 400 ml

- Handy and ergonomic dual component housing
- Ideal for glue, silicone or acrylic based cartridges
- For gluing front windscreens as well as most rear and side windows
- Can also be used for bodywork sealant, seam adhesive etc.
- Drip-free mechanism
- Step-free controllable feed
- Carbon brushes interchangeable
- High performance lithium-ion battery
- Processing capacity per battery charge at ~ 20 °C, up to 15 cartridges
- Longer running time through higher load capacity
- Fast charging function (1 hour)
- Automatic turn off charging station
- With a sturdy aluminium cylinder
- Blow mould plastic housing
- In durable plastic storage case

Technical data:

Electrical Voltage:	10,8 V
Capacity of the unit:	400 ml
Propulsion without load:	6,1 mm / sec
Output pressure:	392 kgf
Charging time:	1 hour
Rechargeable battery:	10,8 V - 2,0 Ah

	L mm	B mm	H mm	Spare carbon brushes set	Battery pack	Number of Charger batteries		kg	
515.3574	450,0	138,0	245,0	515.3596	515.3592	0	0	3,70	
515.3575	450,0	138,0	245,0	515.3596	515.3592	1	1	4,60	
515.3576	450,0	138,0	245,0	515.3596	515.3592	2	1	4,80	

Cordless cartridge gun 600 ml

- Handy and ergonomic dual component housing
- Ideal for glue, silicone or acrylic based cartridges
- For gluing front windscreens as well as most rear and side windows
- Can also be used for bodywork sealant, seam adhesive etc.
- Drip-free mechanism
- Step-free controllable feed
- Carbon brushes interchangeable
- High performance lithium-ion battery
- Processing capacity per battery charge at ~ 20 °C, up to 15 cartridges
- Longer running time through higher load capacity
- Fast charging function (1 hour)
- Automatic turn off charging station
- With a sturdy aluminium cylinder
- Blow mould plastic housing
- In durable plastic storage case

Technical data:

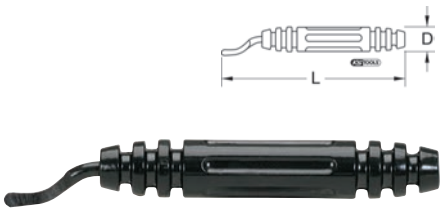
Electrical Voltage:	10,8 V
Capacity of the unit:	600 ml
Propulsion without load:	6,1 mm / sec
Output pressure:	392 kgf
Charging time:	1 hour
Rechargeable battery:	10,8 V - 2,0 Ah

	L mm	B mm	H mm	Spare carbon brushes set	Battery pack	Number of Charger batteries		kg	
515.3579	560,0	138,0	245,0	515.3595	515.3592	0	0	4,10	
515.3580	560,0	138,0	245,0	515.3595	515.3592	1	1	5,10	
515.3581	560,0	138,0	245,0	515.3595	515.3592	2	1	5,20	

DEBURRING

Quick deburrer

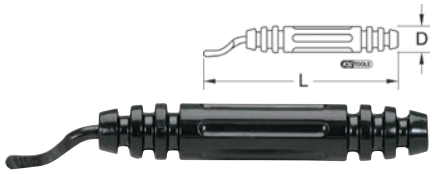
- For pipe cutter 103.5000 + 103.5050
- For tubes, sheets and profiles
- Blade not replaceable
- With rotating blade
- Soft grip handle
- Special tool steel



	L mm	D mm	g	
103.5005	88,0	12,0	20	

Quick deburrer for stainless steel

- For pipe cutter 103.5000i + 103.5050i
- For tubes, sheets and profiles
- Blade not replaceable
- With rotating blade
- Soft grip handle
- Special tool steel



	L mm	D mm	g	
103.5007	90,0	15,0	20	

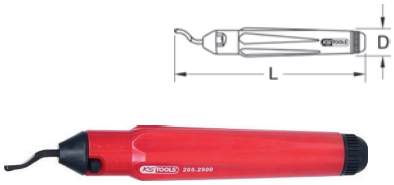
Universal quick deburrer

- For tubes, sheets and profiles
- Blade not replaceable
- With rotating blade
- With anodised aluminium handle
- Special tool steel
- E 100 HSS blade included

	L mm	D mm	g	
205.2020	140,0	21,0	60	

Universal quick deburrer

- For tubes, sheets and profiles
- With blade magazine
- Interchangeable blades
- With rotating blade
- With soft grip handle
- Special tool steel



	L mm	D mm	g	
205.2500	150,0	21,0	50	

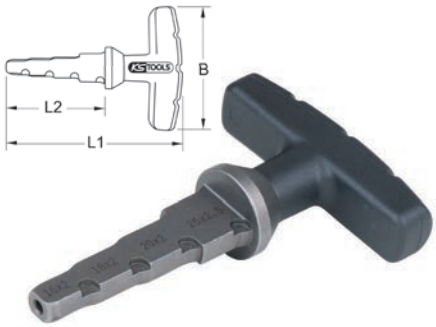
Replacement blade for deburring

- Special tool steel
- Can be used in deburring 205.2500

		Material	g	
205.2011	A	HSS E 100	30	
205.2012	B	HSS E 200	30	
205.2013	C	HSS E 300	30	

Internal deburrer

- Step dimensions in mm: 16x2 - 18x2 - 20x2 - 25x2.5
- 4 cutting sizes for clean deburring
- For copper, aluminum and soft steel piping
- With T-handle made from plastic
- Special tool steel



	L1 mm	L2 mm	B mm	g
105.1001	125,0	72,0	82,0	170

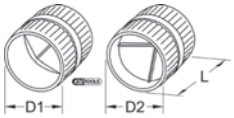
Internal and external deburrer

- 3 cutting edges for clean deburring
- Cutting jaws from alloy HSS steel
- Insertable blades made from allow HSS steel
- Retractable point for internal burring (protects from injury)
- Ensures chatter-free working
- For copper, aluminum and soft steel piping
- Aluminium housing

	Material	Ø mm	⊖ mm	L mm	g
105.3015	HSS	3,0 - 12,0	4,0 - 14,0	125,0	175

Internal and external deburrer

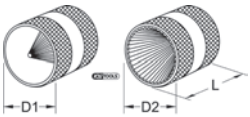
- 3 cutting edges for clean deburring
- For copper, aluminum and soft steel piping
- Plastic or metal body
- Special tool steel



	Material	D1 mm	D2 mm	L mm	g
105.1000	metal	3,0 - 40,0	6,0 - 40,0	57,0	240
105.2000	plastic	3,0 - 42,0	6,0 - 42,0	50,0	240

Universal INOX Internal and external deburrer

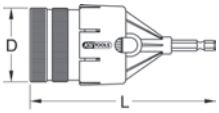
- 3 cutting edges for clean deburring
- For copper, aluminum, steel, stainless steel and plastic pipes
- Polished aluminium body
- Special tool steel



	D1 mm	D2 mm	L mm	g
105.3000	10,0 - 54,0	10,0 - 54,0	85,0	350
105.3001	10,0 - 35,0	10,0 - 35,0	61,0	190

Adaptor for pipe deburrer

- For deburrer 105.3001
- 1/4" Hexagon drive
- Suitable for drills and cordless screwdrivers



	D mm	L mm	g
105.3005	50,0	90,0	30

Self-adjusting external pipe deburrer

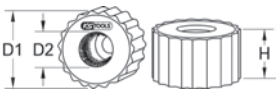
- Special right-side adjustment mechanism provides optimum deburring results
- Infinitely variable
- One cutting edge for clean deburring
- For plastic pipes
- With three ball bearing rollers
- Suitable for drills and cordless screwdrivers
- Extremely robust, forged design
- Special tool steel

	Ø mm	Height mm	Replacement blades	g
123.0060	72,0 - 118,0	71,0	123.0062	349
123.0061	108,0 - 160,0	68,0	123.0062	512

COPPER PIPE BRUSH

Copper pipe external brush

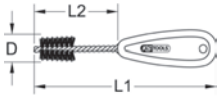
- For copper and brass pipes
- Housing out of durable plastic



	D1 mm	D2 mm	H mm	g
201.2212	25,0	12,0	17,0	20
201.2215	30,0	15,0	23,0	30
201.2218	38,0	18,0	28,0	40
201.2222	45,0	22,0	33,0	50
201.2228	58,0	28,0	43,0	60

Copper pipe internal brush

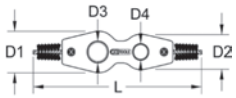
- With hanging hole
- With plastic handle
- For surface preparation
- Steel wire



	D mm	L1 mm	L2 mm	g
201.1208	8,0	160,0	75,0	40
201.1210	10,0	160,0	75,0	40
201.1212	12,0	160,0	75,0	40
201.1215	15,0	160,0	75,0	40
201.1216	16,0	160,0	75,0	50
201.1218	18,0	160,0	75,0	50
201.1222	22,0	160,0	75,0	50
201.1228	28,0	160,0	75,0	50
201.1235	35,0	160,0	75,0	50

Copper pipe brush 2 in 1

- For inside and outside cleaning
- With plastic body
- For surface preparation
- Steel wire

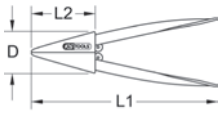


	D1 mm	D2 mm	D3 mm	D4 mm	L mm	g
201.2250	16,0	14,0	16,0	14,0	130,0	50

PIPE EXPANDING

Lead pipe expanding pliers

- For the widening of lead pipes up to max. Ø 1.1/2”
- Powder coated
- Body made of sheet steel tongs



	Ø mm	Ø	L1 mm	L2 mm	g
116.7000	38,1	1.1/2”	240,0	60,0	360

Flanger set 12.0 - 22.0 mm

- For production of T-exits on pipes
- For fittings without solder pipe installation
- Dimensionally accurate drilling
- Suitable for pipes up to max. 2.5 mm wall thickness
- Special tool steel
- In durable plastic storage case

			kg
202.2100	7 pcs	Flanger set 12.0 - 22.0 mm	2,95

consists of:

		g
202.2001	Ratcheting 265 mm for flanger	340
202.2002	Automatic drills, 8-42 mm	450
202.2003	Cam pliers	120
202.2012	Flanger, 12mm	100
202.2015	Flanger, 15mm	150
202.2018	Flanger, 18mm	190
202.2022	Flanger, 22mm	260

Flanger set 12.0 - 28.0 mm

- For production of T-exits on pipes
- For fittings without solder pipe installation
- Dimensionally accurate drilling
- Suitable for pipes up to max. 2.5 mm wall thickness
- Special tool steel
- In durable plastic storage case

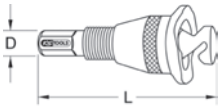
			kg
202.2101	8 pcs	Flanger set 12.0 - 28.0 mm	3,00

consists of:

		g
202.2001	Ratcheting 265 mm for flanger	340
202.2002	Automatic drills, 8-42 mm	450
202.2003	Cam pliers	120
202.2012	Flanger, 12mm	100
202.2015	Flanger, 15mm	150
202.2018	Flanger, 18mm	190
202.2022	Flanger, 22mm	260
202.2028	Flanger, 28mm	300

Flanger

- For production of T-exits on pipes
- For fittings without solder pipe installation
- Dimensionally accurate drilling
- Suitable for pipes up to max. 2.5 mm wall thickness
- Special tool steel

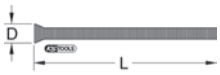


	D mm	L mm	g
202.2010	10,0	70,0	70
202.2012	12,0	75,0	100
202.2014	14,0	75,0	140
202.2015	15,0	80,0	150
202.2016	16,0	80,0	150
202.2018	18,0	90,0	190
202.2022	22,0	95,0	260
202.2028	28,0	100,0	300
202.2035	35,0	110,0	500
202.2042	42,0	120,0	660

BENDING

Copper pipe external bending spring

- For manual bending of soft copper tubes
- Angled cone
- Optimal spring shape prevents compression in the bending radius



	D mm	D	L mm	g
203.0008	8,0		290,0	80
203.0010	10,0		290,0	80
203.0012	12,0		290,0	110
203.0014	14,0		290,0	170
203.0015	15,0		290,0	200
203.0016	16,0		290,0	220
203.0018	18,0		290,0	280
203.0022	22,0		290,0	440
203.0001		1/4”	290,0	60
203.0002		5/16”	290,0	80
203.0003		3/8”	290,0	100
203.0004		1/2”	290,0	160
203.0005		5/8”	290,0	220
203.0006		3/4”	290,0	280

Copper pipe internal bending spring for coated copper tubes

- For manual bending of soft copper tubes
- Optimal spring shape prevents compression in the bending radius

	D mm	L mm	g
203.0310	10 x 12	910,0	260
203.0312	12 x 14	915,0	280
203.0320	20 x 22	910,0	700

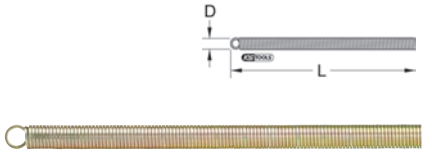
Copper pipe external bending spring

- For manual bending of soft copper tubes
- Optimal spring shape prevents compression in the bending radius

	D mm	L mm	g
203.0110	10,0	245,0	140
203.0112	12,0	245,0	200
203.0114	14,0	260,0	300
203.0116	16,0	270,0	320
203.0118	18,0	285,0	450
203.0120	20,0	305,0	480
203.0122	22,0	320,0	550

Internal bending spring for PE plastic pipes

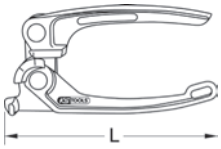
- For manual bending of PE plastic pipes
- Optimal spring shape prevents compression in the bending radius



	D mm	L mm	g	
203.0210	10,0	86,0	220	
203.0213	13,0	88,0	400	
203.0216	16,0	90,0	490	
203.0220	20,0	95,0	680	

Mini brake pipe bend tool

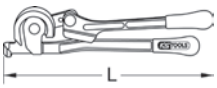
- Easy and handy to use
- For 3.00 + 4.75 + 6.00 mm brake pipes
- Bending doesn't change the diameter of the pipe
- For exact two handed bending up to 90°
- For copper, aluminum, brass and soft steel piping
- For 3 dimensions without exchange of bending segments
- Enables use directly on the vehicle
- Undersize and bend radius on the bending form
- Special tool steel



	Ø mm	Ø	L mm	g	
120.1050	3,0 + 4,75 + 6,0	1/8" + 3/16" + 1/4"	140,0	150	

3 in 1 Mini Bender

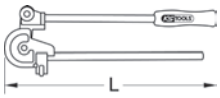
- For exact two handed bending up to 180°
- For copper, aluminum, brass and soft steel piping
- For 3 dimensions without exchange of bending segments
- Undersize and bend radius on the bending form
- Special tool steel



	Ø mm	Ø	L mm	g	
120.1000	6,0 + 8,0 + 10,0		270,0	420	
120.1001		1/4" + 5/16" + 3/8"	240,0	420	

Standard two handed bender

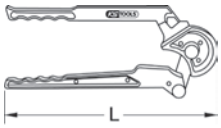
- For exact two handed bending up to 180°
- For soft copper, aluminium, brass and soft steel tubes
- Clamping device for a better hold of the pipe
- Fatigue-free working due to light construction

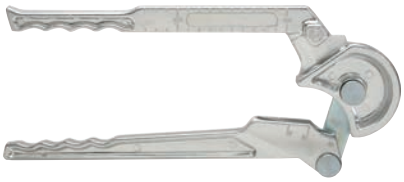


	Ø mm	Ø	L mm	g	
122.1006	6,0		285,0	530	
122.1008	8,0		330,0	650	
122.1010	10,0		350,0	920	
122.1012	12,0		310,0	920	
122.1014	14,0		425,0	1330	
122.1015	15,0		440,0	1330	
122.1016	16,0		440,0	1330	
122.1017		1/4"	285,0	500	
122.1018		5/16"	330,0	650	
122.1019		3/8"	350,0	950	
122.1020		1/2"	310,0	1300	
122.1021		5/8"	440,0	1300	

Copper pipe two handed bender

- For exact two handed bending up to 180°
- For soft, semi-hard and coated copper tubes
- Fatigue-free working due to light construction
- Aluminium





	Ø mm	L mm	kg	
122.0010	10,0	260,0	0,35	
122.0012	12,0	310,0	0,65	
122.0014	14,0	370,0	1,00	
122.0015	15,0	420,0	1,45	
122.0016	16,0	420,0	1,50	

Ratchet single handed bending set 10.0 - 22.0 mm

- Bend radius 90°
- Production of bends against, floors and connection arcs
- Easy change of bending angles
- Aluminium bending formers
- Special tool steel
- In durable plastic storage case

			kg	
203.1200	9 pcs	Ratchet single handed bending set 10.0 - 22.0 mm	2,76	

consists of:

		g	
203.1208	Basic unit for single handed ratcheting bender	2000	
203.1210	Aluminium bending former variante2, Ø 10mm	70	
203.1212	Aluminium bending former variante2, Ø 12mm	70	
203.1214	Aluminium bending former variante2, Ø 14mm	70	
203.1215	Aluminium bending former variante2, Ø 15mm	70	
203.1216	Aluminium bending former variante2, Ø 16mm	70	
203.1218	Aluminium bending former variante2, Ø 18mm	70	
203.1220	Aluminium bending former variante2, Ø 20mm	70	
203.1222	Aluminium bending former variante2, Ø 22mm	70	

Ratchet single handed bending set 10.0 - 22.0 mm

- Bend radius 90°
- Production of bends against, floors and connection arcs
- Easy change of bending angles
- Aluminium bending formers
- Special tool steel
- In durable plastic storage case

			kg	
203.1201	7 pcs	Ratchet single handed bending set 10.0 - 22.0 mm	2,62	

consists of:

		g
203.1208	Basic unit for single handed ratcheting bender	2000
203.1210	Aluminium bending former variante2, Ø 10mm	70
203.1212	Aluminium bending former variante2, Ø 12mm	70
203.1214	Aluminium bending former variante2, Ø 14mm	70
203.1216	Aluminium bending former variante2, Ø 16mm	70
203.1218	Aluminium bending former variante2, Ø 18mm	70
203.1222	Aluminium bending former variante2, Ø 22mm	70

Ratchet single handed bending set 3/8" - 7/8"

- Bend radius 90°
- Production of bends against, floors and connection arcs
- Easy change of bending angles
- Aluminium bending formers
- Special tool steel
- In durable plastic storage case

			kg
203.1202	6 pcs	Ratchet single handed bending set 3/8" - 7/8"	2,69

consists of:

		g
203.1208	Basic unit for single handed ratcheting bender	2000
203.1230	Aluminium bending former, Ø 3/8"	80
203.1231	Aluminium bending former, Ø 1/2"	80
203.1232	Aluminium bending former, Ø 5/8"	80
203.1233	Aluminium bending former, Ø 3/4"	100
203.1234	Aluminium bending former, Ø 7/8"	150

Aluminium bending formers

- Bend radius 90°
- Production of bends against, floors and connection arcs
- Aluminium

	Ø mm	Ø	Bend radius mm	g
203.1210	10,0		42,0	70
203.1212	12,0		43,0	70
203.1214	14,0		46,0	70
203.1215	15,0		50,0	70
203.1216	16,0		55,0	70
203.1218	18,0		66,0	70
203.1220	20,0		73,0	70
203.1222	22,0		78,0	70
203.1230		3/8"	35,0	80
203.1231		1/2"	48,0	80
203.1232		5/8"	58,0	80
203.1233		3/4"	69,0	100
203.1234		7/8"	88,0	150

Ratchet single handed bending set 10.0 - 22.0 mm

- Bend radius 90°
- Production of bends against, floors and connection arcs
- Easy change of bending angles
- Aluminium bending formers
- Special tool steel
- In durable plastic storage case

			kg
203.1400	13 pcs	Ratchet single handed bending set 10.0 - 22.0 mm	4,57

consists of:

		g
203.1401	Bending form, 10mm, aluminium	50
203.1402	Bending form, 12mm, aluminium	50
203.1403	Bending form, 14mm, aluminium	50
203.1404	Bending form, 15mm, aluminium	60
203.1405	Bending form, 16mm, aluminium	80
203.1406	Bending form, 18mm, aluminium	100
203.1407	Bending form, 20mm, aluminium	110
203.1408	Bending form, 22mm, aluminium	120
203.1409	Basic unit for 203.1400	1133
203.1410	Fixed plate 3 holes	246
203.1411	Fixed plate 5 holes	448
203.1412	Quick release adapter base	190
203.1413	Fixed plate adapter base	346

Hydraulic pipe bending set 12 t, 3/8" - 2"

- Bend radius 90°
- For continuous bending of tubes
- Hydraulic action by pressing hand pump
- Loosening by finely adjustable drain valve
- Special steelIn durable transport storage case

			kg
902.1100	8 pcs	3/8" - 1/2" - 3/4" - 1" - 1.1/4" - 1.1/2" - 2"	77,00

Hydraulic pipe bending set 8 t, 3/8" - 1 1/4"

- Bend radius 90°
- For continuous bending of tubes
- Hydraulic action by pressing hand pump
- Loosening by finely adjustable drain valve
- Special steelIn durable transport storage case

			kg
902.1101	6 pcs	3/8" - 1/2" - 3/4" - 1" - 1.1/4"	47,00

Electric Hydraulic Pipe Bending Set 8 t, 3/8" - 1 1/4"

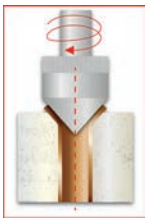
- Bend radius 90°
- For continuous bending of tubes
- Hydraulic action by pressing hand pump
- Loosening by finely adjustable drain valve
- Special steelIn durable transport storage case

			kg
902.1120	6 pcs	3/8" - 1/2" - 3/4" - 1" - 1.1/4"	67,00

FLANGING

Air cooling flaring and sleeve set 1/8" - 3/4"

- To produce straight forward bending 45 ° and capillary sockets on copper, brass, aluminum and thin walled steel tube
- For crimping and expansion of refrigeration and air conditioning lines
- In durable plastic storage case



			kg	
122.1100	10 pcs	Air cooling flaring and sleeve set 1/8" - 3/4"	2,30	

consists of:

		g	
122.1104	Adaptor for 122.1100, set 1/8"-3/16"-1/4"	20	
122.1105	Adaptor for 122.1100, set 5/16"	15	
122.1106	Adaptor for 122.1100, set 3/8"-7/16"	25	
122.1107	Adaptor for 122.1100, set 1/2"	35	
122.1108	Adaptor for 122.1100, set 5/8"	60	
122.1109	Adaptor for 122.1100, set 3/4"	65	
122.1110	Yoke for 122.1100	490	
122.1111	Bar for 122.1100, 1/8"-3/16"-1/4"-5/16"-3/8"-7/16"	540	
122.1112	Bar for 122.1100, 1/2"-5/8"-3/4"	500	
122.0812	Tube-cutter 4-28mm, chrome	240	

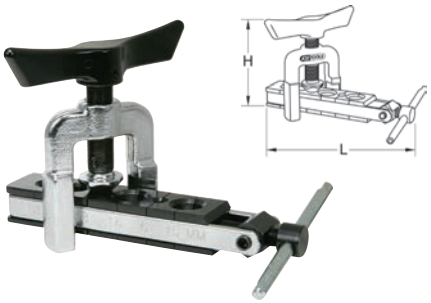
Flange tool metric with quick clamping device

- Flange strip for 6, 8, 10, 12, 15 + 16mm
- For the manufacture of conical flaring 45 °
- Very precise crimp due to flange cone with special geometry
- For mobile use

	H mm	L mm	g	
122.0500	100,0	160,0	900	

Flanging tool imperial with quick clamping device

- Flange strip for 3/16", 1/4", 5/16", 3/8", 1/2" + 5/8"
- For the manufacture of conical flaring 45 °
- Very precise crimp due to flange cone with special geometry
- For mobile use



	H mm	L mm	g	
122.0501	100,0	160,0	940	

Universal flanger imperial + metric with quick clamping device

- For pipe 4-16mm + 3/16"-5/8"
- For the manufacture of conical flaring 45 °
- Very precise crimp due to flange cone with special geometry
- Self centering clamping
- For mobile use
- Special tool steel

	H mm	L mm	g	
122.0525	100,0	110,0	900	

Flanger set 1/8" - 3/4" and 6.0 - 19.0 mm

- To produce easy bending 45° on copper pipes
- Self centering punching tool
- 3/8" square drive in thumb screw for use with a ratchet
- In durable plastic storage case

			kg	
122.0810	6 pcs	Flanger set 1/8" - 3/4" and 6.0 - 19.0 mm	3,21	

consists of:

		g	
122.0811	Metric bar	630	
122.0812	Tube-cutter 4-28mm, chrome	240	
122.0813	Imperial bar	630	
122.0815	Flange tool	900	
122.0816	3/8" Adaptor for cordless drill	25	
105.2000	Internal+external deburrer, 3-42mm	240	

Flanging tool, metric

- Flange strip for 6, 8, 10, 12, 14, 16 + 18mm
- For the production of single flanges 45°.
- Self-centering die
- Including 3/8" adapter for cordless screwdriver
- For mobile use

	H mm	L mm	kg	
122.0808	135,0	210,0	1,60	

Flanging tool, imperial

- Flange strip for 1/8", 3/16", 1/4", 5/16", 3/8", 1/2", 5/8" + 3/4"
- For the production of single flanges 45°.
- Self-centering die
- Including 3/8" adapter for cordless screwdriver
- For mobile use

	H mm	L mm	kg	
122.0821	140,0	190,0	1,60	

Flanger set Ø 10.0 - 22.0 mm

- To produce easy bending 45° on copper pipes
- In durable plastic storage case

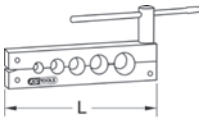
			kg
122.2201	6 pcs	Flanger set Ø 10.0 - 22.0 mm	3,00

consists of:

		g
122.2200	Flange guides, 10-22mm, 225mm	1100
122.1460	Flange cone, 6-14mm, 108mm	270

Flange guides for 6.0 - 14.0 mm

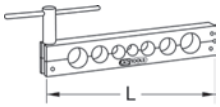
- Flange strip for 6 - 8 - 10 - 12 + 14mm
- For the manufacture of conical flaring 45 °
- For mobile use



	L mm	g
122.1400	130,0	470

Flange guides for 10.0 - 22.0 mm

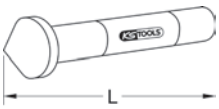
- Flange strip for 10 - 12 - 14 - 16 - 18 - 20 + 22mm
- For the manufacture of conical flaring 45 °
- For mobile use



	L mm	kg
122.2200	225,0	1,10

Flange cones

- For flange guides for 6.0 - 22.0 mm
- For the manufacture of conical flaring
- For mobile use
- Special tool steel

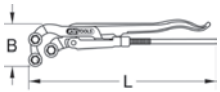


	Ø mm	∠	L mm	g
122.1460	6,0 - 14,0	60°	108,0	270
122.2260	6,0 - 22,0	60°	124,0	285
122.2290	6,0 - 22,0	90°	130,0	325

THREADING TOOLS

Thread roughing pliers

- For roughening of the thread after thread cutting
- Uniform roughening over the entire circumference
- Special tool steel



	Ø mm	Ø	B mm	L mm	kg
995.6500	12,7 - 50,8	1/2" - 2"	100,0	335,0	1,77

Manual pipe threading tool kit 3/8" - 1.1/4"

- With cutting edge for thread BSPT right hand according to DIN 2999
- Compact construction
- Light work in inaccessible places
- Handy to switch the direction of the ratchet
- Easy change of cutting heads
- Special tool steel
- In durable plastic storage case

			kg
903.3300	8 pcs	Manual pipe threading tool kit 3/8" - 1.1/4"	6,20

consists of:

		g
903.3301	Die head, Ø 3/8"	585
903.3302	Die head, Ø 1/2"	620
903.3303	Die head, Ø 3/4"	665
903.3304	Die head, Ø 1"	700
903.3305	Die head, Ø 1.1/4"	720
903.3307	Handle	500
903.3308	Extension	480
903.3309	Reversing ratchet	290

Die head

- With cutting edge for thread BSPT right hand according to DIN 2999
- Compact construction
- Light work in inaccessible places
- Special tool steel

	Ø	D mm	H mm	Replacement jaws	g
903.3301	3/8"	56,0	66,5	903.3311	585
903.3302	1/2"	61,0	67,0	903.3312	620
903.3303	3/4"	67,0	68,0	903.3313	665
903.3304	1"	80,0	73,0	903.3314	700
903.3305	1.1/4"	89,0	75,0	903.3315	720

Plumbing tool set

- With cutting edge for thread BSPT right hand according to DIN 2999
- The complete steel processing
- Light work in inaccessible places
- Handy to switch the direction of the ratchet
- Easy change of cutting heads
- Special tool steel

			kg
987.0600	8 pcs	Plumbing tool set	14,72

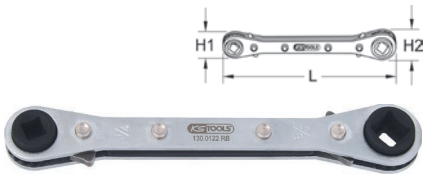
consists of:

		g
110.1000	Steel pipe cutter, 1/8"-2"	2500
113.1500	Swed.pattern pipe wrench 45° angled,1.1/2"	1400
115.2000	Water pump pliers, 1.1/4"	310
903.3300	Threading tool kit, 8 pcs, 3/8"-1.1/4"	6200
850.0505	Universal plastic tool box	1700

AIR CONDITIONING SPANNER

4in1 Air conditioning ratchet spanner, reversing

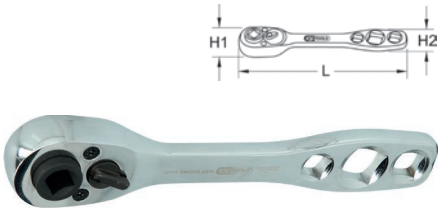
- For 3/16", 1/4", 5/16" + 3/8"
- Clockwise and anticlockwise switch
- Special tool steel



	H1 mm	H2 mm	L mm	g
130.0122	22,0	22,0	140,0	120

5 in 1 Air conditioning ratchet, reversing

- For square 1/4" + 5/16" on the ratchet head with reversing switch
- For square 8.5, 3/8" + 13.0 mm on the ratchet handle
- For use with stop valves
- Reversible
- Chrome vanadium



	H1 mm	H2 mm	L mm	g
130.0222	30,0	25,0	157,0	120

Air conditioning socket set

- Metric sizes
- Suitable for all current lock valves
- Ideal set of compilation for air conditioning
- Size 1/4" + 5/16" at ratchet head
- Siye 8.5 + 13.0 mm, 3/8" at ratchet handle
- Matt finish
- Chrome vanadium
- In durable plastic storage case

1/4"

			g
130.0300	19 pcs	Air conditioning socket set	865
1 x		1/4" - 5/16" - 8,5 - 3/8" - 13 mm	
10 x		1/4": 3,4 - 4 - 4,5 - 5 - 6 - 7 - 8 - 9 - 10 mm - 1/4"	
3 x		1/4": 7 - 8 - 10 mm	
1 x		1/4"	
1 x		1/4"	
1 x		125 mm	
1 x		150 mm	
1 x			

ERGOTORQUE®precision Refrigeration/air conditioning torque wrench tool set 20 - 100 Nm

- Set contents ideal for air conditioning and refrigeration engineers
- Actuation accuracy: ±3 % tolerance of the set scale value
- Precise reading accuracy for a minimum 5.000 tightening cycles
- For controlled fastening in clockwise and counter clockwise directions
- Changing the operating direction takes place by turning the torque wrench
- Double scale in Nm and lbf•ft divisions for precise adjustment
- Includes micrometer scale in Nm divisions for precise and fine adjustment
- Large vision panel, precise adjustment using a magnifying glass
- An audible and palpable signal when the desired torque value is achieved
- Torque setting is quick and easy using the locking knob in the handle end
- Secure locking function within the handle
- Two component handle with a soft zone, is ergonomic in design and comfortable in the hand
- With snap lock retangular tool holder for 14x18 range of end tools
- Individually marked with serial number - unique product identification
- including certificate according to DIN EN ISO 6789:2017(E) - traceable to national standards

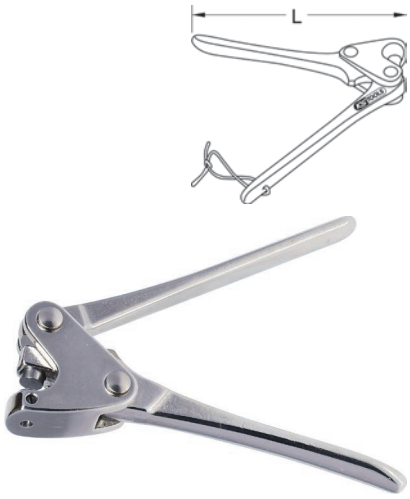
14x18 mm 1/2"

			kg
516.1225	8 pcs	ERGOTORQUE®precision Refrigeration/air conditioning torque wrench tool set 20 - 100 Nm	3,40
1 x		20 - 100 N•m	
6 x		17 - 22 - 24 - 26 - 27 - 29 mm	
1 x		1/2"	

SEALS

Lead seal pliers 8 mm

- For Lead seals 8 mm
- Special tool steel



	L mm	Replacement stamp A-Z / 1-9	g
122.9990	130,0	122.9993	230

Lead seals 8 mm

- Pack of 250 g
- Special tool steel

	Ø mm	g
122.9991	8,0	250

Seal wire

- Ø 0.5 mm
- Length 100 m

	Ø mm	Length m	g
122.9992	0,5	100,00	290

STEP KEY

Ratchet

- Internal square drive to DIN 3120 / ISO 1174
- For the use of step wrenches
- Ergonomic 2-component handle
- Special tool steel

1/2"

	Length mm	g
130.1000	270,0	500

1/2" Push through square

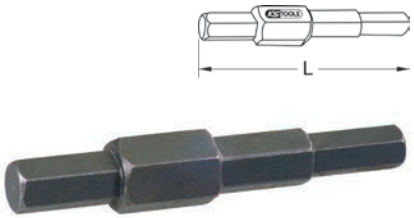
- Serviceable from both sides
- Special tool steel

1/2"

	Total length mm	g
130.1001	38	50

Step key 4 stages

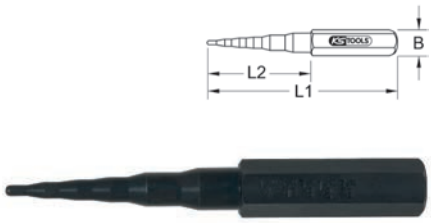
- 4 stages 10, 12, 13 + 17 mm
- Special tool steel



	L mm	g	
130.6005	100,0	120	

Universal step key

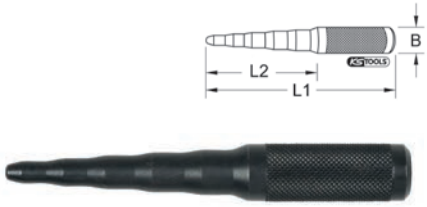
- 5 stages: 1/4"-5/16"-3/8"-1/2"-5/8"
- Special tool steel



	L1 mm	L2 mm	B mm	g	
130.2031	153,2	85,2	22,0	228	

Universal step key

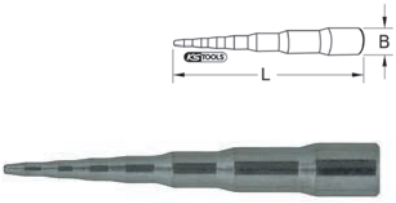
- 5 stages: 8-10-12-14-16 mm
- Special tool steel



	L1 mm	L2 mm	B mm	g	
130.2032	142,0	84,5	20,2	224	

Universal step key

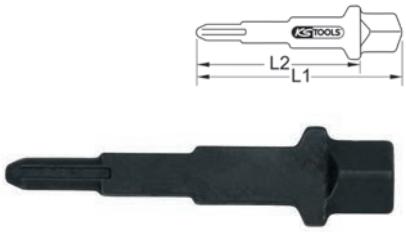
- 6 stages: 3/16"-1/4"-5/16"-3/8"-1/2"-5/8"
- Special tool steel



	L mm	B mm	g	
130.2033	133,5	19,5	146	

Universal step key

- 3-stage: 3/8"-1/2"-3/4"
- For use with reversing ratchet 3/4"
- For radiator screw connections
- Special tool steel

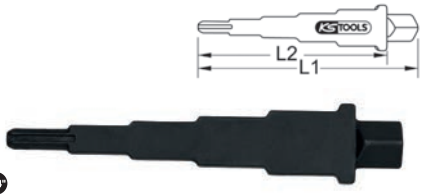


3/4"

	L1 mm	L2 mm	g	
130.2034	125,9	104,0	1166	

Universal step key

- 5-stage: 3/8"-1/2"-3/4"-1"-1 1/4"
- For use with reversing ratchet 3/4"
- For radiator screw connections
- Special tool steel

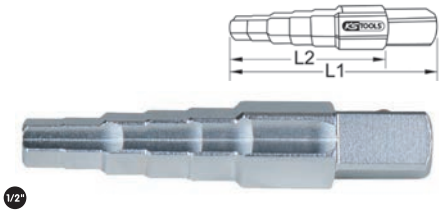


3/4"

	L1 mm	L2 mm	g	
118.2038	195,0	170,0	340	

Universal step key

- 6-stage: 9.5-9.8-11.8-12.8-13.8-17 mm
- Inches: 3/8"-1/2"-3/4"
- For use with reversing ratchet 130.1000
- Special tool steel

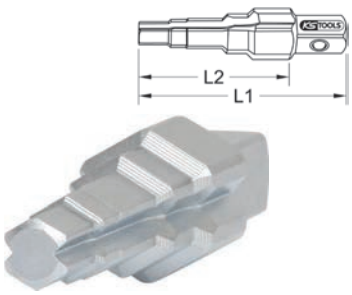


1/2"

	L1 mm	L2 mm	g	
130.2036	87,3	67,0	96	

Universal step key

- 4 stages: 3/8"-1/2"-3/4"-1"
- For use with reversing ratchet 130.1000
- Special tool steel



1/2"

	L2 mm	L1 mm	g	
130.2000	70,0	90,0	130	

Step key, 8 steps, with screwdriver blade

- 8 stages 7/8", 27/32", 3/4", 35/65", 1/2", 15/32", 7/16" + 3/8"
- With screwdriver blade
- For use with reversing ratchet 130.1000
- Special tool steel

1/2"

	L mm	g	
130.2001	110,0	110	

Gas step key, 3 steps

- 3 stages 1/2", 3/4" + 1"
- For use with reversing ratchet 130.1000
- Special tool steel

1/2"

	L mm	g	
130.2010	90,0	150	

Universal step key set 3/8" - 1"

- Step key 4 stages 3/8", 1/2", 3/4" + 1"
- Special tool steel

1/2"

			g	
130.3000	2 pcs	Universal step key set 3/8" - 1"	610	

consists of:

		g	
130.1000	1/2" Ratchet, 270mm	500	
130.2000	Universal step key, 4 steps, 3/8"-1/2"-3/4"-1"	130	

Universal step key set 7/8" - 3/8"

- Step key 8 stages 7/8", 27/32", 3/4", 35/65", 1/2", 15/32", 7/16" + 3/8"
- Step key with a screwdriver tip 9,0 x 1,5 mm
- Special tool steel

1/2"

		g	
130.3020	2 pcs	Universal step key set 7/8" - 3/8"	630

consists of:

		g	
130.1000	1/2" Ratchet, 270mm	500	
130.2001	1/2"Step key,screwdriver blade, 8steps	110	

Gas step key set 3/8" - 1"

- Step key 4 stages 3/8", 1/2", 3/4" + 1"
- Gas step key 3 stages 3/8", 1/2", 3/4" + 1"
- Special tool steel

1/2"

130.3500	3 pcs	Gas step key set 3/8" - 1"	760

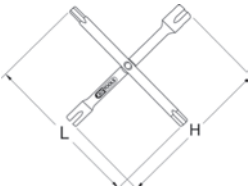
consists of:

130.1000	1/2" Ratchet, 270mm	500
130.2000	Universal step key, 4 steps, 3/8"-1/2"-3/4"-1"	130
130.2010	1/2" Gas step key, 3 steps, 1/2"-1"	150

CROSS WRENCH

Plumbing cross joint wrench

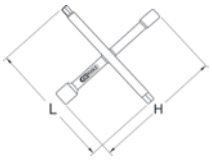
- 10 Function
- 4 x external hexagon 3/8", 1/2", 3/4" + 1" on and dismounting of radiator valves and lockshields
- 4 x internal thread for hanger bolts M6, M8, M10 + M12 for installation and removal of vanity fixtures
- 2 x inner square tube plugs for 3/8" + 1/2"
- Special tool steel



	L mm	H mm	
116.6200	220,0	200,0	500

Plumbing cross joint wrench

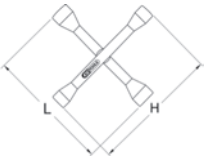
- 7 Function
- 4 x external hexagon 3/8", 1/2", 3/4" + 1" on and dismounting of radiator valves and lockshields
- 3 x internal thread for hanger bolts, M8, M10 +, M12 for vanity fixtures
- Powder coating
- Special tool steel



	L mm	H mm	
116.6000	200,0	200,0	500

Gas pipe step key

- 4 Function
- On and boring of tube plugs 3/8", 1/2", 3/4" + 1"
- Powder coating
- Special tool steel

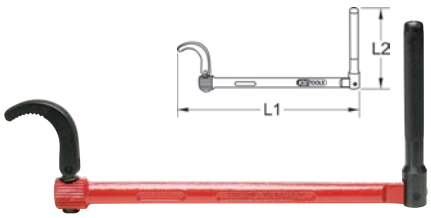


	L mm	H mm	
116.6100	200,0	220,0	780

GENERAL PLUMBING INSTALLATION

Basin wrench

- Pivoting T-handle provides optimum power transfer
- Clockwise and anticlockwise action with swivel lever
- For use in plumbing installation
- Special tool steel



	Ø mm	L1 mm	L2 mm	
125.1000	10,0 - 32,0	275,0	120,0	500

ERGOTORQUE*plus*® bit screwdriver

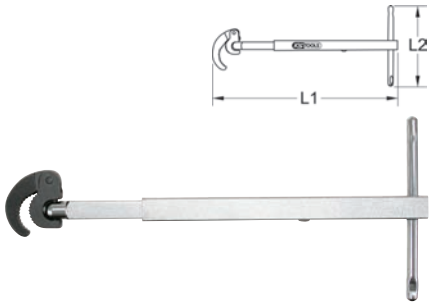
- Two component handle
- Optimal power transmission
- Magnetic
- For bits to DIN 3126 / C 6,3
- Blade made of chrome vanadium

1/4"

		L1 mm	L2 mm	L3 mm	
159.1199	1/4"	550,0	450,0	100,0	175

Telescopic standard tap wrench

- Pivoting T-handle provides optimum power transfer
- Clockwise and anticlockwise action with swivel lever
- For use in plumbing installation
- Pull out 3 stage telescopic adjustment
- Chrome plated
- Special tool steel



	Ø mm	L1 mm	L2 mm	
126.1000	10,0 - 32,0	275,0 - 455,0	150,0	670
126.2000	32,0 - 63,0	275,0 - 455,0	155,0	830

Standard tap nut wrench set

- Perfect for the assembly and disassembly of basin cock nuts on sinks
- Suitable for all fittings from 13.0 mm to 32.0 mm
- For smooth operation even on large sinks
- Also suitable for hard-to-reach areas
- Pivoting T-handle provides optimum power transfer
- Clockwise and anticlockwise action with swivel lever
- For use in plumbing installation
- With five fixtures
- Special tool steel

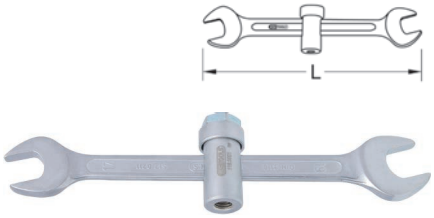
123.0040	6 pcs	Standard tap nut wrench set

consists of:

123.0041	Basin cock wrench with replaceable adapter, 260 mm	250
123.0042	Jaw adapter for basin cock wrench	152
123.0043	Adapter for basin cock wrench, 9 mm	11
123.0044	Adapter for basin cock wrench, 10 mm	11
123.0045	Adapter for basin cock wrench, 11 mm	16
123.0046	Adapter for basin cock wrench, 12 mm	16

Plumbing special spanner, 17 x 19 mm

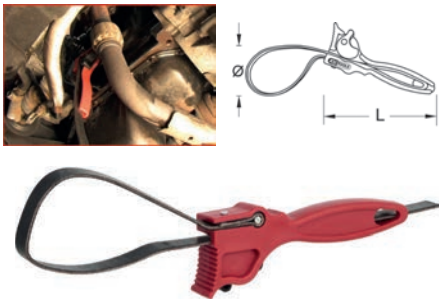
- Ideal for inaccessible areas
- For use in plumbing installation
- Quick mounting of fixtures and vanity angle valves
- Includes attachment for screwing bolts M10 on the floor in the middle section
- A longer lever arm by sliding the middle piece of the wrench
- Special tool steel



	mm		L mm	g
116.5000	17x19	M10	220,0	250

Strap pipe pliers

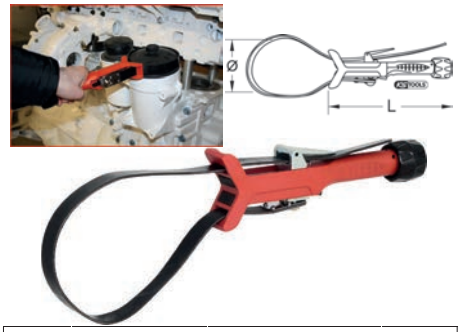
- Ideally suited for the installation and removal of filters and filter cartridges
- Especially suited for plastic pipes
- One hand operation
- Infinitely variable
- For hard to reach places
- Belt made of reinforced, non-slip rubber
- Glass fibre reinforced handle



	Ø mm	L mm	g
114.0150	110,0	190,0	180

Strap pipe pliers

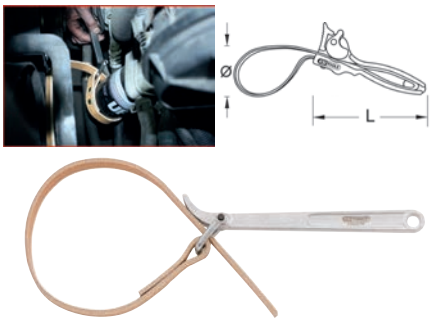
- Ideally suited for the installation and removal of filters and filter cartridges
- Especially suited for plastic pipes
- One hand operation
- Infinitely variable
- For hard to reach places
- Setting the filter diameter by using the tensioning element and also by turning the knob on the end of the handle
- Belt made of reinforced, non-slip rubber
- With metal handle



	Ø mm	L mm	g
114.0160	160,0	250,0	1,00

Strap wrench

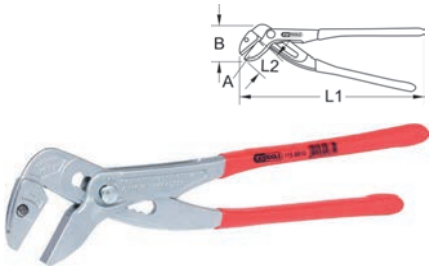
- Ideally suited for the removal of filters and filter cartridges
- Especially suited for plastic pipes
- One hand operation
- Infinitely variable
- For hard to reach places
- non-slip, rubber-coated cotton fabric tape
- With metal handle
- Chrome plated
- Chrome vanadium



	mm	Ø mm	Ø	L mm	Replacement band	g
114.0170	20,0	140,0	9/64"	220,0	114.0170-1	323
114.0171	25,0	200,0	13/64"	280,0	114.0171-1	590

Fitters pliers

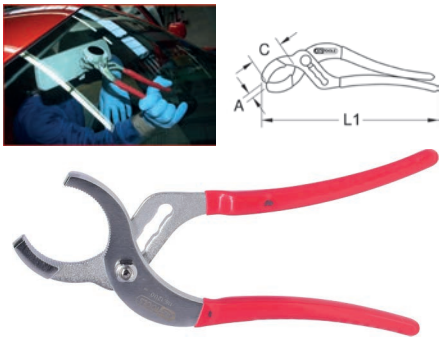
- With accurate industrial adjustment
- With safety clamping protection
- With setting scale
- Smooth, polished head area
- Optimum power transfer
- Ground heads
- With PVC dipped handle
- Chrome vanadium



	A mm	B mm	L1 mm	L2 mm	g
115.8510	50,0	50,0	250,0	60,0	350

Siphon pliers

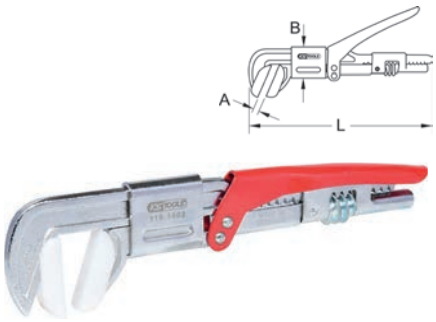
- Ideally suited to a clean and damage-free removal of the interior mirror
- With 4 adjustable steps
- Isolated mouth for non-destructive working
- For screw fittings up to max. Ø 65 mm
- With PVC dipped handle
- For loosening pipe fittings
- Interchangeable jaw protector
- For hard to reach places
- Mirror polished
- Chrome vanadium



	A mm	C mm	L mm	Replacement jaws	g
116.1200	20,0 - 65,0	45,0	225,0	116.1201	320

Fitters wrench

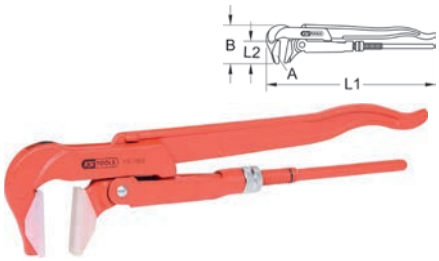
- Interchangeable jaw protector
- For screw fittings up to max. Ø 60 mm
- Smooth, parallel adjustment jaws
- For mild assembly
- Infinitely variable
- Matt chrome
- Chrome vanadium



	A mm	B mm	L mm	Replacement jaws	g
116.1002	60,0	47,0	265,0	116.1003	550

Fitters plier

- 90° Jaw position
- Interchangeable jaw protector
- for screw connections up to max. Ø 35 mm
- Smooth, parallel adjustment jaws
- For mild assembly
- Infinitely variable
- Red powder coating
- Chrome vanadium



	○	A mm	B mm	L1 mm	L2 mm	Replacement jaws	g
116.1000	1"	25,4	81,0	315,0	54,0	116.1001	790

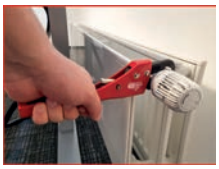
Pipe wrench with adjustable head

- Type “Stillson”
- Aluminium cast body
- Stepless adjustment via milled nut
- 160° revolving handle
- Aluminium handle

	A mm	B mm	L mm	
111.3550	38,1	97,0	250,0	650

Stillson-type pipe wrench with adjustable head

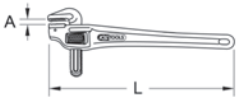
- Type “Stillson”
- steplessly adjustable via quick tensioning mechanics
- Serrated execution
- With loosening lever
- upper jaw chrome-molybdenum
- lower jaw chrome vanadium
- Aluminium handle



	Clamping range mm	Length mm	
111.3540	8 - 31	260,0	610

Aluminium one-handed pipe wrench

- Type “Stillson”
- Aluminium cast body
- Ground heads
- Infinitely variable
- Aluminium drop forged



	A	L mm	
111.5100	1.1/2”	360,0	0,93
111.5200	2”	450,0	1,53

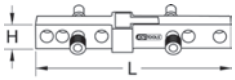
hexagonal pipe wrench

- ideal for hexagon nuts and screw connections
- Jaw 45° offset
- Ground heads
- Infinitely variable

	A	L mm	
111.3400	1.1/8” - 2.5/8”	240,0	880

Standard sprit level / mounting connection gauge

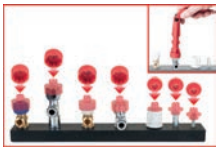
- Perfect for dimensional and perpendicular alignment of all common installation dimensions during bodyshell work (3/8“ + 1/2”)
- Perfect for vertical and horizontal adjustment of fittings
- Fixed standard sizes in 90, 110, 120, 140, 150, 160, 180, 200, 220 mm
- Each with a clearly legible horizontal and vertical level vial
- Including loss compensation for fast and accurate depth gauge
- Aluminium body



	L mm	H mm	
204.2000	300,0	50,0	430

WC seat installation wrench set

- Ideal for the assembly and disassembly of toilet seats
- Suitable for more than 25 WC seat fastenings
- Clean, hygienic and simple to use
- Very handy and optimum leverage thanks to special joint
- Also suitable for hard-to-reach areas
- Protects fingers and hands
- Tedious retightening no longer necessary
- 3 adapters with special profiles included
- One component handle
- Special plastic



123.0035	4 pcs	WC seat installation wrench set	120

consists of:

123.0030	WC seat installation wrench, 200 mm	65
123.0031	Hexagonal Adapter for Toilet Seat Assembly Wrench	4
123.0032	Ten-sided Adapter for Toilet Seat Assembly Wrench	7
123.0033	Special Profile Adapter for Toilet Seat Assembly Wrench	6

WC plumbing combination kit

- Special configaration for the disassembly and assembly of toilet seats
- In durable plastic storage case

116.2095	3 pcs	WC plumbing combination kit	0,81

consists of:

116.2096	Standard tap key, 155mm, 13mm	130
116.2097	Key for toilet set fitting, 13mm (hex) 1/4”	60
911.2470	1/4” Ratchet bit screwdriver, 190mm	380

WC plumbing combination kit

- Special configaration for the disassembly and assembly of toilet seats
- In durable plastic storage case

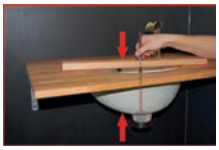
116.2080	6 pcs	WC plumbing combination kit	1,30

consists of:

116.2081	1/2” Handle,flex,180° swivel Universal joint	150
116.2086	Stud driver, special adaptor, M8, 1/2”	70
116.2087	Stud driver, special adaptor, M10, 1/2”	100
116.2096	Standard tap key, 155mm, 13mm	130
116.2097	Key for toilet set fitting, 13mm (hex) 1/4”	60
514.1135	1/2” Special adaptor, magnetic, 72mm	60

One-Man Sink Unit Assembly Kit

- for professional fitting of sink units
- Can be used universally with various assembly and adjustment options
- easy operation for one-man assembly
- time- and cost-efficient
- plastic holder prevents damage to the sink unit
- extra long spindle for most sink units



			g
123.0080	2 pcs	One-Man Sink Unit Assembly Kit	762

consists of:

		g
123.0081	Holding Devices, 570 mm	498
123.0082	plastic handle with spindle M10, knurled nut and washer	264

Washbasin mouting set

- Optimum working for disassembly and assembly of washbasins and wall fixtures
- Ideal for confined spaces
- Handy, multifunctional power tool
- In durable plastic storage case

			kg
116.2050	6 pcs	Washbasin mouting set	1,40

consists of:

		g
116.2055	Assembly tool f.drain valves,9mm,L=185mm	100
116.2056	Assembly tool f.drain valves,10mm,L=185mm	110
116.2059	Assembly tool f.drain valves,13mm,L=185mm	130
116.2060	Fitting tool for drain valves, 92mm	150
116.2065	Socket screwdriver for eccentric connection (S-connection), 10 mm	120

Plumbing cutting combination kit

- Easy entry and unscrewing from 1/2" Hahn extensions in plumbing assembly
- Wall-mounted models are milled valve extensions
- Connection valves also in inaccessible areas and with a thread
- In durable plastic storage case

			g
116.2030	4 pcs	Plumbing cutting combination kit	880

consists of:

		g
116.2031	Valve extension mills	156
116.2032	Angle valve screw in device	143
116.2081	1/2" Handle,flex,180° swivel Universal joint	150
918.1662	1/2" CHROMEplus Bit socket hexagon, long, 12mm	140

Plumbing installation set

- Optimum working for disassembly and assembly of washbasins and wall fixtures
- Ideal for confined spaces
- Handy, multifunctional power tool
- In durable plastic storage case

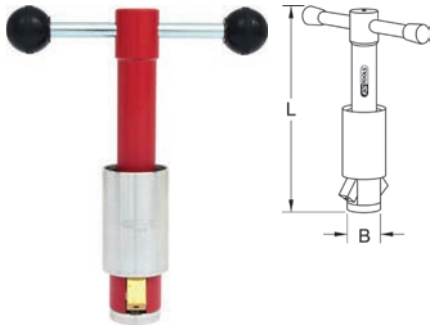
			kg
116.2015	10 pcs	Plumbing installation set	2,76

consists of:

		g
116.2036	1/2" Valve extension mills,SDS	170
116.2051	Stock screw key drive tool,M8/M10	320
116.2054	Assembly tool f.drain valves,11mm,L=185mm	120
116.2055	Assembly tool f.drain valves,9mm,L=185mm	100
116.2056	Assembly tool f.drain valves,10mm,L=185mm	110
116.2057	Assembly tool f.drain valves,12mm,L=185mm	130
116.2059	Assembly tool f.drain valves,13mm,L=185mm	130
116.2060	Fitting tool for drain valves, 92mm	150
116.2065	Socket screwdriver for eccentric connection (S-connection), 10 mm	120
503.4565	4 in 1 GEARplus reversing double ratchet ring spanner, 10x13x17x19mm	196

Valve fix

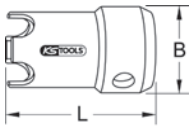
- Holder and boring tools for the eccentric and standard flush valves
- Can be used from above and below
- Quick and easy work for the assembly of bathtubs, sinks and washbasins
- Special tool steel



	B mm	L mm	g
116.2000	35,0	161,0	300

Bath adapter for valve fix

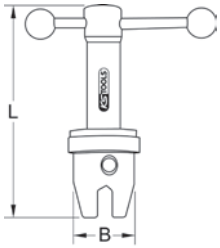
- For use on bath tub valves to valve fix 116.2000
- Special tool steel



	L mm	B mm	g
116.2001	53,0	45,0	110

Valve fix and bath adaptors

- Holder and boring tools for the eccentric and standard flush valves
- Quick and easy work for the assembly of bathtubs, sinks and washbasins
- Special tool steel



	B mm	L mm	g
116.2002	50,0	120,0	410

Mounting socket for eccentric fittings (S-fittings)

- Ideally suited for damage-free screwing in and out of the eccentric connections for wall fittings
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- With external drive hexagonal socket 10.0 mm
- With right and left hand clamping function
- Safe clamping due to 12 rollers
- Matt finish
- Chrome vanadium

	mm	Imperial tube Ø inch	Inner Ø mm	Outer Ø mm	Length mm	g
116.2065	10,0	3/4"	26,5	42,0	40,0	120

Mounting socket for eccentric fittings (S-fittings)

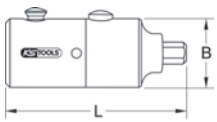
- Ideally suited for damage-free screwing in and out of the eccentric connections for wall fittings
- With external drive hexagonal socket 36.0 mm
- With right and left hand clamping function
- Safe clamping due to 8 rollers
- Matt finish
- Chrome vanadium

1/2"

	■	mm	Imperial tube Ø inch	Inner Ø mm	Outer Ø mm	Length mm	g
116.2066	1/2"	36,0	3/4"	26,5	42,0	43,0	260

Assembly tool for drain valves

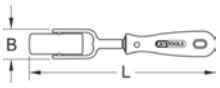
- Work on damage drain valves



	mm	B mm	L mm	g
116.2060	10,0	35,0	92,0	150

Universal stock screw key drive tool

- M8 / M10
- Swivelling head double ended key for turning screw studs
- Special tool steel



	B mm	L mm	g
116.2051	35,0	220,0	320

Handle, flexible

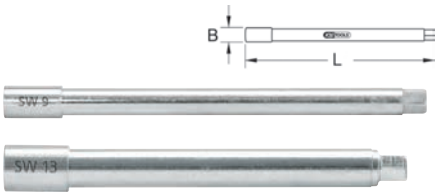
- With external square drive to DIN 3120 / ISO 1174
- 180° Swivel universal joint
- Special tool steel

1/2"

	Length mm	g
116.2081	165,0	150

Assembly tool for drain valves

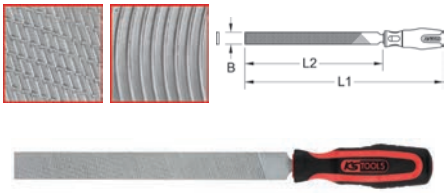
- Work on damage drain valves



	Ø mm	mm	■	B mm	L mm	g
116.2054	11,0	10,0		10,5	185,0	120
116.2055	9,0	10,0		10,5	185,0	100
116.2056	10,0	10,0		14,0	185,0	110
116.2057	12,0	10,0		15,0	185,0	130
116.2059	13,0	10,0		15,0	185,0	130
116.2089	9,0	10,0		10,5	165,0	60
116.2090	10,0	10,0		10,5	165,0	70
116.2092	12,0	10,0		15,0	165,0	120
116.2093	13,0	10,0		15,0	165,0	120
116.2096		10,0	1/4"	14,2	155,0	130

Installation rasp

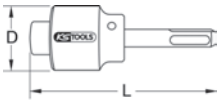
- Machined cut
- Two component handle
- Special tool steel



	L1 mm	L2 mm	B mm	File blade	g
157.0123	370,0	250,0	22,0	161.0123	270

Valve extension mills

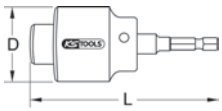
- With SDS adaptor
- With swarf catcher
- Wall mounted models for milling of valve extensions
- With special carbide tipped cutting edge
- Optimized centering of the cylindrical tower in front of the cutter
- Special tool steel



	D mm	L mm	g
116.2036	36,0	100,0	170

Tap extension cutter

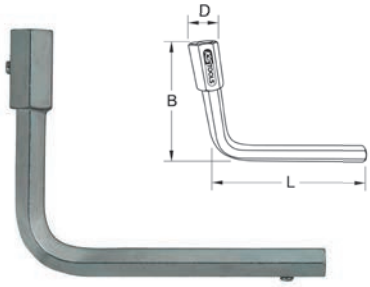
- With 1/4" 6 point adaptor
- With swarf catcher
- Wall mounted models for milling of valve extensions
- With special carbide tipped cutting edge
- Optimized centering of the cylindrical tower in front of the cutter
- Special tool steel



	D mm	L mm	g
116.2037	36,0	91,5	170

Special tap extension bit

- Special tool steel



3/8"

	mm	L mm	B mm	D mm	g
116.2073	12,0	128,0	100,0	17,5	220

Special tap extension bit

- Hexagon socket
- ideal for assembly and disassembly of 1/2” tap extensions
- also suitable for longer or screwed together tap extensions
- For difficult to access areas
- time- and cost-efficient
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Long execution
- with press-fitted nickel-plated bit
- For manual operation
- Matt finish
- Chrome vanadium

1/2"

	⬢ mm	L mm	g
116.2039	12,0	150,0	150

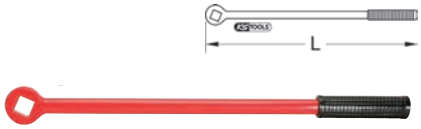
Radiator nipple wrench

- Tools for mounting of radiators for nipples 1” and 1.1/4”, with 18 mm square drive
- Special tool steel

	Ø	■ mm	L mm	kg
131.0500	1”	18,0	500,0	0,75
131.0800	1”	18,0	800,0	1,10
131.1000	1”	18,0	1000,0	1,45
132.0500	1.1/4”	18,0	500,0	1,30
132.0800	1.1/4”	18,0	750,0	1,50

Radiator tap wrench

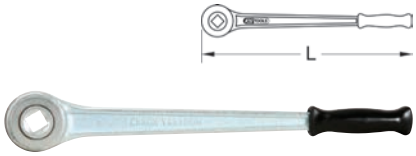
- Tools for mounting of radiators for nipples 1” and 1.1/4”, with 18 mm square drive
- Soft grip handle
- Special tool steel



	□ mm	L mm	kg
131.0001	18,0	500,0	1,67

Tap wrench

- Tools for mounting of radiators for nipples 1” and 1.1/4”, with 18 mm square drive
- Soft grip handle
- Special tool steel



	□ mm	L mm	kg
131.0002	18,0	500,0	1,67

SUCTION PADS

Mini vacuum suction cup

- For lifting, carrying and holding
- For flat and non-porous surfaces
- Max. 15 kg carrying capacity - perpendicular to sucker
- Suitable for adjusting and insertion of shower trays
- Solid rubber

	Suction cup Ø mm	Load capacity kg	g
140.1004	80,0	15	100

One handed mini suction cup

- Convenient one handed operation by lever
- For lifting, carrying and holding
- Special plastic
- Quick, easy and correct work on small objects
- Well-suited to adjusting and inserting mirror glass
- Load capacity up to 8 kg
- With release button

	Suction cup Ø mm	Load capacity kg	H mm	L mm	g
140.1015	70,0	8,0	92,0	115,0	168

Suction pad with folding clamps

- With sturdy handle
- Creates a vacuum by folding the clamps
- For lifting, carrying and holding or flattening small dents
- For flat and non-porous surfaces
- Quick, easy and correct work on small objects
- Well-suited to transporting bulky items
- Load capacity up to 40 kg
- Special plastic

	Suction cup Ø mm	Height mm	g
140.1005	118,0	40,0	370

Double suction holder

- With sturdy handle
- The suckers fit to every flat surface and are easy to use with two quick release handles
- Ideal for cambered car windows
- For lifting, carrying and holding
- For flat and non-porous surfaces
- Quick, simple and correct work
- Well-suited to transporting bulky items
- Load capacity up to 80 kg
- Special plastic

	Suction cup Ø mm	Load capacity kg	g
140.1006	120,0	80,0	730

Double suction cup

- With sturdy handle
- The suckers fit to every flat surface and are easy to use with two quick release handles
- Ideal for cambered car windows
- For lifting, carrying and holding
- Suitable for all materials with gas-tight surfaces
- All metal parts made from rust-free steel, making use in swimming pools, outdoor construction sites or in coastal areas possible
- Quick, simple and correct work
- Well-suited to transporting bulky items
- Load capacity up to 80 kg
- Special plastic

	Suction cup Ø mm	Load capacity kg	kg
140.1008	150,0	80,0	1,01

Three way suction holder

- With sturdy handle
- The three suckers fit to every flat surface and are easy to use with two quick release handles
- Ideal for cambered car windows
- For lifting, carrying and moving large parts
- For flat and non-porous surfaces
- Quick, simple and correct work
- Well-suited to transporting bulky items
- Load capacity up to 70 kg
- Special plastic

	Suction cup Ø mm	Load capacity kg	kg
140.1007	120,0	70,0	1,13

CLUTCH PENCILS

Clutch pencil set

- Perfect for sanitary, heating and electric applications
- Writes on practically all materials
- Suitable for marking deep holes
- Versatile and practical
- Does not require sharpening
- Lead does not dry out
- Fits in every pocket
- Includes two graphite 7B and two red lead refills
- Plastic

			g
123.0010	5 pcs	Clutch pencil set	38

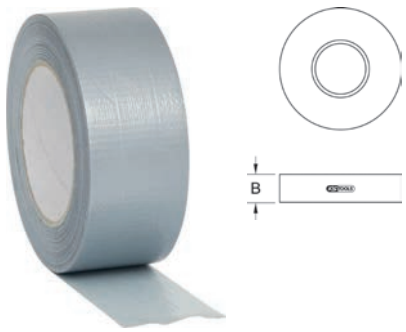
accessories:

		g
123.0011	Clutch pencil	13
123.0012	Lead refill - graphite 7B, 4 units	8
123.0013	Lead refill - red, 4 units	8
123.0014	Lead refill - white, 4 units	8
123.0015	Lead refill - blue, 4 units	8
123.0016	Lead refill - green, 4 units	8
123.0017	Lead refill - yellow, 4 units	8
123.0018	Lead refill - orange, 4 units	8
123.0019	Lead refill - pink, 4 units	8

FABRIC ADHESIVE TAPE

Fabric adhesive tape, silver

- Fabric adhesive tape
- Laminated polyester/cotton fabric
- Sturdy, heat resistant and water repellent
- Rubber based adhesive

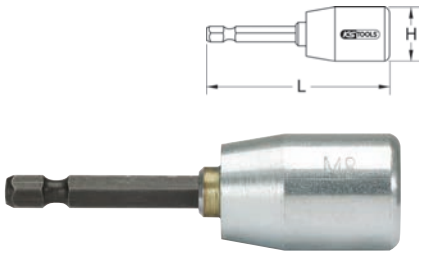


	B mm	Length m	g
141.5001	40,0	50,00	305
141.5000	50,0	50,00	410

SOCKET SCREWDRIVER

Stud screwdriver, magnetic

- Magnetic stud screwdriver with 1/4" bit holder for screwdriver
- For a damage free entry and boring of the stud
- Special tool steel

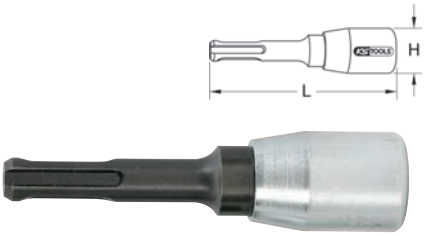


1/4"

		L mm	H mm	g
122.3006	M6	88,0	21,0	80
122.3008	M8	80,0	24,0	100
122.3010	M10	88,0	26,0	120
122.3012	M12	76,0	26,0	140

Stud screw key with SDS adaptor

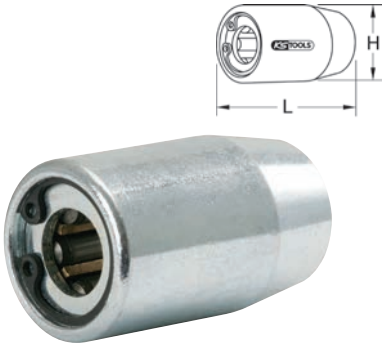
- Stud screw key for machinery with SDS adaptor
- For a damage free entry and boring of the stud
- Special tool steel



		L mm	H mm	g
122.3016	M6	76,0	21,0	90
122.3018	M8	81,0	23,0	120
122.3020	M10	99,0	26,0	150
122.3022	M12	101,0	29,0	180

Stud screwdriver

- Stud screwdriver with 1/2" square drive for special adaptor
- For a damage free entry and boring of the stud
- Special tool steel

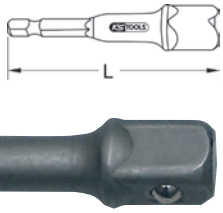


1/2"

	□		L mm	g
116.2086	1/2"	M8	35,0	70
116.2087	1/2"	M10	43,0	100
116.2088	1/2"	M12	48,0	130

Special adaptor, magnetic

- Magnetic 1/2" special adaptor for stud screwdriver with 1/4" bit holder for screwdrivers
- Special tool steel

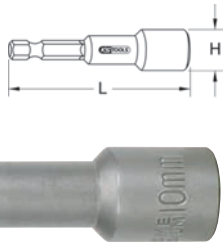


1/2"

	L mm	g
514.1135	72,0	60

drive socket, magnetic

- Magnetic
- External hexagon drive to DIN 3126 / ISO 1173 - C 6,3
- Can be used by hand or with an electric screwdriver
- For a damage free inserting boring and unscrewing bolts
- Ideally suited for fittings in trade and industry
- Sand-blasted
- Special tool steel



1/4"

	⬢ mm	L mm	H mm	g
122.2101	7,0	60,0	11,0	30
122.2102	8,0	60,0	12,0	30
122.2103	10,0	60,0	15,0	40
122.2104	13,0	60,0	18,0	50

Stud screwdriver

- External hexagon drive to DIN 3126 / ISO 1173 - C 6,3
- Can be used by hand or with an electric screwdriver
- For a damage free inserting and unscrewing bolts from floor
- Ideally suited for fittings in trade and industry
- Sand-blasted
- Special tool steel

1/4"

		L mm	H mm	g
122.2105	M6	50,0	12,0	20
122.2106	M8	50,0	12,0	20
122.2107	M10	50,0	12,0	20
122.2108	M12	50,0	14,0	20

Pipe clamp fitting tool

- Holder for stud screws M8 and 1/4" bits
- Ideal for gas, water and electrical installation
- No screw bit changing
- 6 point 1/4" adaptor can be mounted in the chuck
- Special tool steel

	D mm	L mm	
116.2012	20,0	70,0	100

bit and drive socket set

- Ideal set of compilation for plumbing, heating and air conditioning
- External hexagon drive to DIN 3126 / ISO 1173 - C 6,3
- Can be used by hand or with an electric screwdriver
- Ideally suited for fittings in trade and industry
- Includes magnetic drive sockets and stud screwdrivers for a damage free inserting borin and unscrewing bolts and stud bolts
- Orderly arrangement of the popular 1/4" bits and drive sockets
- Sand blasted
- Special tool steel
- In durable plastic storage case

1/4"

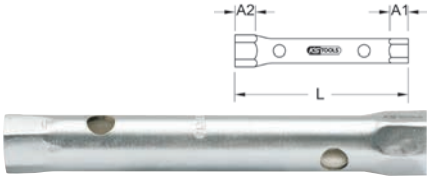
122.2100	31 pcs	bit and drive socket set	670

4 x		7 - 8 - 10 - 13 mm
4 x		M6 - M8 - M10 - M12
1 x		50 mm
5 x		PH1 - 3 x PH2 - PH3
5 x		PZ1 - 3 x PZ2 - PZ3
2 x		5,5 - 6,5 mm
3 x		4 - 5 - 6 mm
7 x		T10 - T15 - T20 - T25 - T27 - T30 - T40

TUBULAR BOX SPANNER

Pipe head spanner

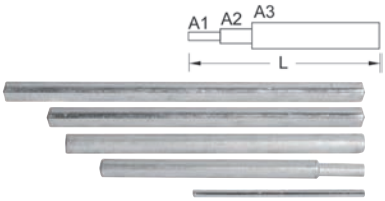
- 6 point
- DIN 896 / ISO 2236 / ISO 1085
- With hollow shaft
- Matt finish
- Chrome vanadium



	mm	A1 mm	A2 mm	L mm		
518.0870	6x7	10,0	11,0	100,0	1,2,3	27
518.0871	8x9	11,0	12,0	110,0	1,2,3	43
518.0872	10x11	12,5	13,0	120,0	1,2,3	63
518.0881	10x13	13,0	14,5	140,0	2,3	80
518.0873	12x13	14,0	14,5	130,0	2,3	96
518.0874	14x15	15,0	16,0	140,0	2,3	132
518.0875	16x17	16,0	17,0	150,0	2,3	155
518.0882	17x19	17,0	20,0	160,0	2,3	160
518.0876	18x19	18,0	20,0	160,0	2,3	187
518.0877	20x22	20,0	21,0	170,0	2,3	275
518.0878	21x23	20,0	20,0	180,0	2,3	310
518.0883	24x26	24,0	26,0	190,0	4	365
518.0879	24x27	24,0	26,0	190,0	4	365
518.0880	30x32	27,0	31,0	220,0	4	610
518.0884	36x41	32,0	35,0	220,0	5	650
518.0885	41x46	35,0	38,0	240,0	5	950
518.0886	46x50	38,0	40,0	240,0	5	1050

Tommy bar for box spanner

- Hardened
- Matt finish
- Chrome vanadium



	mm	A1 mm	A2 mm	A3 mm	L mm	#	
518.0865	6x7-10x11	6,0	6,0	6,0	115,0	1	40
518.0866	6x7-21x23	5,8	8,0	9,5	160,0	2	80
518.0868	24x26-30x32	14,0	14,0	14,0	204,0	4	260
518.0869	36x41-46x50	15,6	15,6	15,6	253,0	5	370

Box wrench sets

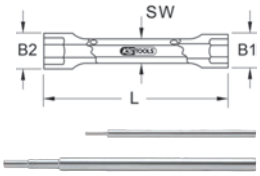
- 6 point
- DIN 896 / ISO 2236 / ISO 1085
- With hollow shaft
- Matt finish
- Chrome vanadium

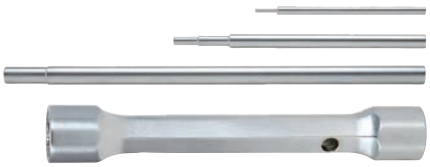
518.0900	10 pcs	Box wrench sets	920

8 x		6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17 - 18x19 - 20x22 mm
2 x		6-11 + 10-22 mm

ULTIMATE*plus* Double box spanner

- FlankTraction profile
- DIN 896 form A / ISO 2236
- Extremly versatile
- With centre hole
- Hexagonal shank
- Can use a ring spanner to drive
- High quality finish
- Chrome vanadium

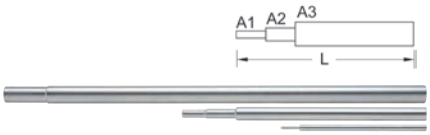




	mm	B1 mm	B2 mm	mm	L mm		
518.0406	6x7	9,0	10,0	8,0	100,0	1	27
518.0408	8x9	11,5	12,5	9,0	110,0	1	43
518.0410	10x11	14,0	15,0	11,0	120,0	1	63
518.0412	12x13	16,5	17,5	13,0	130,0	2	96
518.0414	14x15	19,5	20,0	14,0	140,0	2	132
518.0416	16x17	21,0	22,0	16,0	150,0	2	155
518.0418	18x19	23,0	24,0	18,0	160,0	2	187
518.0420	20x22	26,0	28,0	20,0	170,0	2	275
518.0421	21x23	27,0	29,0	21,0	180,0	2	310
518.0424	24x26	30,0	32,0	24,0	190,0	3	365
518.0425	25x28	31,0	34,0	25,0	200,0	3	410
518.0427	27x29	34,0	36,0	27,0	210,0	3	540
518.0430	30x32	37,0	39,0	30,0	220,0	3	610

Tommy bar for double box spanner

- Hardened
- High quality finish
- Chrome vanadium



	mm	A1 mm	A2 mm	A3 mm	L mm	#	
518.0450	6x7-10x11	2,6	5,0	5,0	100,0	1	10
518.0455	12x13-21x23	5,9	7,0	9,3	170,0	2	80
518.0460	24x26-30x32	11,6	12,5	12,5	290,0	3	280

ULTIMATE*plus* Double box head spanner set

- FlankTraction profile
- DIN 896 form A / ISO 2236
- Extremly versatile
- With centre hole
- Can use a ring spanner to drive
- High quality finish
- Chrome vanadium

518.0405	10 pcs	ULTIMATE*plus* Double box head spanner set	1,16

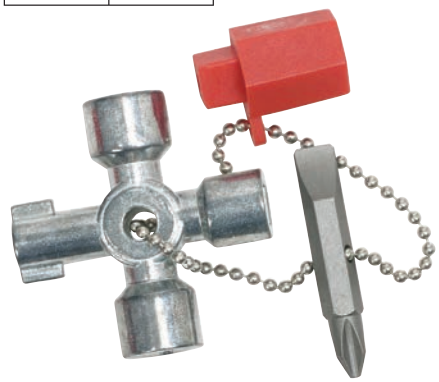
8 x		6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17 - 18x19 - 20x22 mm
2 x		#1 100 mm + #2 170 mm

UNIVERSAL ENCLOSURE KEYS

Mini universal enclosure key

- With chain
- Bit adaptor for bits to DIN 3126 / C 6,3
- Die cast zinc

■	6 mm
■	7 - 8 mm
▲	9 mm
●	3 - 5 mm
⊕	PH 2
⊖	7 mm

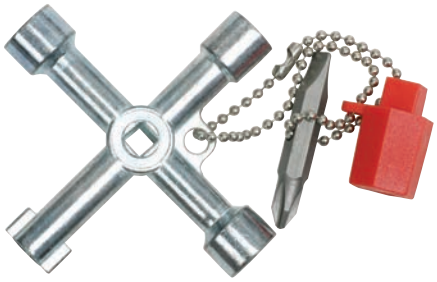


	Width mm	Length mm	g
130.1010	42,0	42,0	100

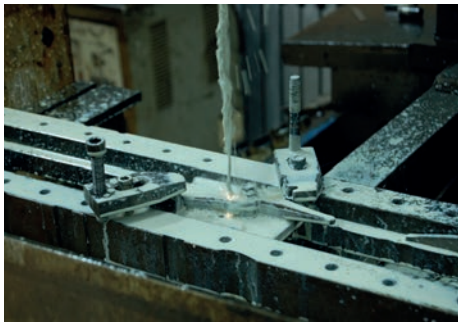
Universal enclosure key

- With chain
- Bit adaptor for bits to DIN 3126 / C 6,3
- Heating ventilation key
- Die cast zinc

■	6 mm
■	7 - 8 mm
▲	9 mm
●	3 - 5 mm
⊕	PH 2
⊖	7 mm



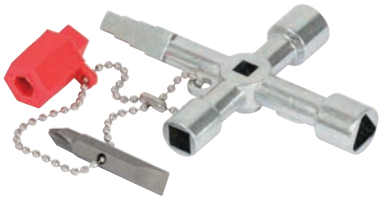
	Width mm	Length mm	g
130.1015	71,0	71,0	200



Universal enclosure key

- With chain
- Bit adaptor for bits to DIN 3126 / C 6,3
- Heating ventilation key
- Die cast zinc

■	5 mm
■	7 mm
■	8 mm
■ ■ ■	4 - 10 mm
▲	9 - 10 mm
⊕	PH 2
⊖	7 mm



	Width mm	Length mm	g
130.1020	61,0	90,0	200

Universal enclosure key electrical

- For all common control cabinet-enclosures
- For bits to DIN 3126 / C 6,3
- Fourfold pivot mechanism
- Die cast zinc

■	6 mm
■	7 mm
■	8 mm
▲	7 mm
▲	8 - 9 mm
●	3 - 5 mm
⌒	
◠	6 mm

	Width mm	Length mm	g
130.1046	100,0	114,0	358

Universal switchgear cabinet key, magnetic

- For all common control cabinet-enclosures
- For bits to DIN 3126 / C 6,3
- with double rotating mechanism
- Die cast zinc

■	5 mm
■	6 - 7 mm
■	8 - 9 mm
▲	5 - 6 mm
▲	6 - 7 mm
▲	8 - 9 mm
●	3 - 5 mm
□	2 x 1/4“
■	1/4“

	Width mm	Length mm	g
130.1041	38,0	95,0	86

PIPE PULL-IN PLIERS

Pipe pull-in pliers, straight

- Perfect for connecting metal pipes with the same diameter, such as waste, ventilation, extraction, smoke and discharge pipes
- The ends of the pipes are narrowed during the process
- Guarantees fast, exact, simple and precise connection
- Embossing punch for all round and square pipes
- Tapered to 41.3 mm with a single press
- With five cutters = three bottom and two top cutters
- Extremely robust and reliable
- Self-opening with a clamping facility
- Optimum transmission ratio
- With hanging hole
- Two component handle
- Plier body made of steel

	Length mm	g
123.0050	265,0	480

Pipe pull-in pliers, angled

- Perfect for connecting metal pipes with the same diameter, such as waste, ventilation, extraction, smoke and discharge pipes
- The ends of the pipes are narrowed during the process
- Guarantees fast, exact, simple and precise connection
- Embossing punch for all round and square pipes
- Optimised utilisation through angled head
- Tapered to 41.3 mm with a single press
- With five cutters = three bottom and two top cutters
- Extremely robust and reliable
- Self-opening with a clamping facility
- Optimum transmission ratio
- With hanging hole
- Two component handle
- Plier body made of steel

	Length mm	g
123.0051	225,0	440

TOOL ASSORTMENTS

Tool set for plumbing and heating mechanics

- Ideal set of compilation for plumbing, heating and air conditioning
- Can be used by hand or with an electric screwdriver
- Ideally suited for fittings in trade and industry
- 6 point
- FlankTraction profile
- Matt finish
- Chrome vanadium
- In a classy aluminium case

1/4" 1/2"

			kg
911.0695	95 pcs	Tool set for plumbing and heating mechanics	13,86

consists of:

		g
101.5000	Mini pipe cutter, 3-28mm	260
103.5050	Telescopic pipe cutter, 3-42mm	450
113.1000	Swed. pattern pipe wrench 45°angled,1"	820
115.2001	Water pump pliers, 240mm, 10"	350
116.5000	Special sanitary spanner, 17 x 19mm, 220mm	250
116.6000	Plumbers cross wrench, 7 functions	500
125.1000	Tap nut wrench Ø 10-32 mm, 275mm	500
130.1000	1/2" Ratchet, 270mm	500
130.1001	1/2" Push through square,2 sides usable	50
130.2000	Universal step key, 4 steps, 3/8"-1/2"-3/4"-1"	130
142.1350	Fitters hammer, hickory handle, 500g	590
151.3220	Ball ended hexagon key wrench set,extra long,9 pcs	500
156.0511	Pointed chisel, octagonal shaft, 250mm	390
156.0587	Flat chisel, oval, 250x25mm	500
157.0105	Halfround file, form E, cut2, 20mm	230
159.1002	ERGOTORQUEplus screwdriver for slotted screws, 3mm, 155mm	40
159.1004	ERGOTORQUEplus screwdriver for slotted screws, 4mm, 180mm	50
159.1005	ERGOTORQUEplus screwdriver for slotted screws, 5,5mm, 205mm	50
159.1008	ERGOTORQUEplus screwdriver for slotted screws, 6,5mm, 230mm	60
159.1020	ERGOTORQUEplus screwdriver for screws PH, PH1, 180mm	40
159.1021	ERGOTORQUEplus screwdriver for screws PH, PH2, 205mm	70
159.1198	ERGOTORQUEplus 1/4" bit screwdriver 205mm	90
201.2301	Brake calliper brush, stainless steel, 250mm	90
300.0060	Wooden folding rule, yellow, 2m	100
300.0070	Carpenters pencil, red, HB	10
517.0702	Double open ended spanners, 8x9mm	40
517.0704	Double open ended spanners, 10x11mm	50
517.0707	Double open ended spanners, 12x13mm	70
517.0709	Double open ended spanners, 14x15mm	100
517.0710	Double open ended spanners, 16x17mm	130
517.0712	Double open ended spanners, 18x19mm	180
517.0714	Double open ended spanners, 20x22mm	230
517.0715	Double open ended spanners, 21x23mm	220
517.0716	Double open ended spanners, 24x27mm	330
517.0718	Double open ended spanners, 30x32mm	510
907.2130	Small hand saw frame, 150mm	140
907.2262	STAINLESS STEEL scraper, 38mm, wooden handle	70
911.1202	Extensions, 1/2",125mm	180
911.1250	1/2" Universal joint	160
911.2060	1/4" Bit set, 32 pcs	300
911.2188	Tension tester with protective insulation 150-250 V, 145mm	14
917.1210	1/2" Hexagonal socket, 10mm	48

consists of:

		g
917.1211	1/2" Hexagonal socket, 11mm	51
917.1212	1/2" Hexagonal socket, 12mm	50
917.1213	1/2" Hexagonal socket, 13mm	54
917.1214	1/2" Hexagonal socket, 14mm	54
917.1215	1/2" Hexagonal socket, 15mm	51
917.1216	1/2" Hexagonal socket, 16mm	48
917.1217	1/2" Hexagonal socket, 17mm	63
917.1218	1/2" Hexagonal socket, 18mm	63
917.1219	1/2" Hexagonal socket, 19mm	63
917.1221	1/2" Hexagonal socket, 21mm	77
917.1222	1/2" Hexagonal socket, 22mm	90
917.1224	1/2" Hexagonal socket, 24mm	104

Air conditioning combination tool set

- For optimal use in refrigeration and air conditioning installation
- Supplied in durable ABS storage case

			kg
116.0175	129 pcs	Air conditioning combination tool set	14,41

consists of:

		g
101.5016	Mini pipe cutter, 3-16mm	120
103.5000	Telescopic pipe cutter, 6-38mm	500
105.2000	Internal+external deburrer, 3-42mm	240
117.0550	ERGOTORQUE VDE screwdriver set, 8 pcs, PH+slot	430
117.1100	ERGOTORQUE VDE pliers set, 4 pcs, variante 1	1440
117.1114	ERGOTORQUE VDE wire stripper, 160mm	210
118.0065	Universal Kevlar workshop shear, 140mm	130
122.0500	Flange tool metric with quick clamping device	900
130.0122	4in1 Air conditioning ratchet spanner, reversing	120
141.6010	PVC insulation tape set, 8 pcs	150
142.1320	Fitters hammer, hickory handle, 200g	283
151.2180	Ball ended hexagon key wrench set,8 pcs extra long	440
156.0150	Punch set, mirror polished, 6 pcs	520
159.1001	ERGOTORQUEplus screwdriver for slotted screws, 6mm, stubby	40
159.1026	ERGOTORQUEplus screwdriver for screws PH, PH2, stobby	40
159.1046	ERGOTORQUEplus screwdriver for screws PZ, PZ2, stubby	40
203.0010	Pipe bending spring, external, 10mm	80
203.0012	Pipe bending spring, external, 12mm	110
203.0016	Pipe bending spring, external, 16mm	220
300.0131	Tape measure with locking device and belt clip, black grey, 3m	100
518.0607	CHROMEplus Combination spanner, offset, 7mm	25
518.0608	CHROMEplus Combination spanner, offset, 8mm	32
518.0609	CHROMEplus Combination spanner, offset, 9mm	46
518.0610	CHROMEplus Combination spanner, offset, 10mm	48
518.0613	CHROMEplus Combination spanner, offset, 13mm	71
518.0617	CHROMEplus Combination spanner, offset, 17mm	159
518.0619	CHROMEplus Combination spanner, offset, 19mm	176
518.0701	CHROMEplus Double open ended spanner, 6x7mm	27
518.0702	CHROMEplus Double open ended spanner, 8x9mm	32
518.0704	CHROMEplus Double open ended spanner, 10x11mm	58
518.0707	CHROMEplus Double open ended spanner, 12x13mm	93

consists of:

		g
518.0709	CHROMEplus Double open ended spanner, 14x15mm	122
518.0710	CHROMEplus Double open ended spanner, 16x17mm	170
518.0712	CHROMEplus Double open ended spanner, 18x19mm	212
518.0715	CHROMEplus Double open ended spanner, 21x23mm	277
518.0716	CHROMEplus Double open ended spanner, 24x27mm	410
518.0718	CHROMEplus Double open ended spanner, 30x32mm	693
577.0200	Adjustable spanner, 23mm	250
577.0250	Adjustable spanner, 28mm	450
577.0300	Adjustable spanner, 34mm	690
907.2184	Cable knife, Ø 8-28mm	100
911.0646	1/4" Socket set, 46 pcs	1100
997.1216	Saw blade 310, pack of 12	40
997.1217	Small handsaw with adjustable wooden handle, 150mm	100
850.0560	ABS gard protective tool case with aluminium frame, 460x310x180mm	4500

Premium plumbing tool set

- For optimal use in plumbing installation
- Supplied in multi pocket tool case

			kg
116.0190	126 pcs	Premium plumbing tool set	15,88

consists of:

		g
101.5022	Mini pipe cutter, 3-22mm	120
103.5000	Telescopic pipe cutter, 6-38mm	500
113.1000	Swed. pattern pipe wrench 45°angled,1"	820
115.1004	ERGOTORQUE pliers set, 4 pcs	1440
116.1000	Fitting pliers, 1"	790
116.1200	Siphon pliers, 4 position, 100mm	320
116.5000	Special sanitary spanner, 17 x 19mm, 220mm	250
118.0052	Tin snips sheet metal shear, self opening, right handed cut	400
122.2100	Bit and drive socket set, 31 pcs, 1/4"	670
125.1000	Tap nut wrench Ø 10-32 mm, 275mm	500
130.3000	Step key set, 2 pcs, 3/8"-1"	610
141.5000	Fabric adhesive tape, silver,50mm x 50m	410
142.1330	Fitters hammer, hickory handle, 300g	350
142.5151	Club hammer, fiberglas handle, 1500g	1650
151.2180	Ball ended hexagon key wrench set,8 pcs extra long	440
156.0175	Centre punch, mirror polished, octagonal shaft, Ø 5mm	60
156.0531	Flat chisel, octagonal shaft, 250x24mm	380
204.5500	Aluminium profile spirit level, 500mm	390
300.0060	Wooden folding rule, yellow, 2m	100
300.0133	Tape measure with locking device and belt clip, black grey, 5m, 25mm	150
500.7165	Precision screwdriver set, 7 pcs, PH and slotted	100
517.0123	Double open ended spanner set, 11 pcs, 6x7-30x32mm	1600
577.0200	Adjustable spanner, 23mm	250
850.0300	SMARTBAG universal tool case	2250
907.2100	Hacksaw frame, 300mm	270
907.2165	Universal snap off blade knife, 140mm, blade 18x100mm	90
907.2264	STAINLESS STEEL scraper, 63mm, wooden handle	70
911.1198	1/4" ERGOTORQUE Bit screwdriver, 200mm	90
911.2060	1/4" Bit set, 32 pcs	300
911.2120	ERGOTORQUE screwdriver set, 6 pcs, slot+PZ	630
911.2188	Tension tester with protective insulation 150-250 V, 145mm	14
997.1215	Small handsaw,150mm	100
999.2034	Gypsum cup, 0,65 litre	60

Basic plumbing tool set

- For optimal use in the plumbing sector
- In durable leather tool case

			kg	
116.0185	34 pcs	Basic plumbing tool set	11,21	

consists of:

		g	
101.5016	Mini pipe cutter, 3-16mm	120	
103.5000	Telescopic pipe cutter, 6-38mm	500	
113.1000	Swed. pattern pipe wrench 45° angled,1"	820	
113.1500	Swed.pattern pipe wrench 45° angled,1.1/2"	1400	
115.1012	ERGOTORQUE diagonal side cutter, 160mm	260	
115.2000	Water pump pliers, 1.1/4"	310	
116.1200	Siphon pliers, 4 position, 100mm	320	
116.5000	Special sanitary spanner, 17 x 19mm, 220mm	250	
125.1000	Tap nut wrench Ø 10-32 mm, 275mm	500	
130.3000	Step key set, 2 pcs, 3/8"-1"	610	
142.1330	Fitters hammer, hickory handle, 300g	350	
151.2100	3 in 1 Ball ended hexagon key wrench set, 8 pcs long	330	
156.0532	Flat chisel, octagonal shaft, 300mm	440	
158.3520	Ball ended hexagon key wrench set, 8 pcs	440	
159.1002	ERGOTORQUEplus screwdriver for slotted screws, 3mm, 155mm	40	
159.1004	ERGOTORQUEplus screwdriver for slotted screws, 4mm, 180mm	50	
159.1006	ERGOTORQUEplus screwdriver for slotted screws, 5,5mm, 230mm	50	
159.1009	ERGOTORQUEplus screwdriver for slotted screws, 6,5mm, 255mm	90	
159.1020	ERGOTORQUEplus screwdriver for screws PH, PH1, 180mm	40	
159.1021	ERGOTORQUEplus screwdriver for screws PH, PH2, 205mm	70	
201.2305	Steel hand wire brush 3 rowed, 290mm	120	
300.0060	Wooden folding rule, yellow, 2m	100	
517.0148	Double open ended spanner set, 8 pcs, 6x7-20x22mm	810	
907.2187	Electricians pen knife,1 straight blade	60	
907.2188	Pen knife, straight+narrow pointed blade	60	
997.1215	Small handsaw,150mm	100	
850.0310	Tool case, leather, 420x150x250mm	2600	

Basic plumbing tool set

- For optimal use in the plumbing sector
- In durable metal tool box

			kg	
116.0186	34 pcs	Basic plumbing tool set	12,16	

consists of:

		g	
101.5016	Mini pipe cutter, 3-16mm	120	
103.5000	Telescopic pipe cutter, 6-38mm	500	
113.1000	Swed. pattern pipe wrench 45° angled,1"	820	
113.1500	Swed.pattern pipe wrench 45° angled,1.1/2"	1400	
115.1012	ERGOTORQUE diagonal side cutter, 160mm	260	
115.2001	Water pump pliers, 240mm, 10"	350	
116.1200	Siphon pliers, 4 position, 100mm	320	
116.1002	Fitting wrench, 60mm	550	
116.5000	Special sanitary spanner, 17 x 19mm, 220mm	250	
125.1000	Tap nut wrench Ø 10-32 mm, 275mm	500	
130.3000	Step key set, 2 pcs, 3/8"-1"	610	
142.1330	Fitters hammer, hickory handle, 300g	350	
151.2100	3 in 1 Ball ended hexagon key wrench set, 8 pcs long	330	
156.0532	Flat chisel, octagonal shaft, 300mm	440	
158.3520	Ball ended hexagon key wrench set, 8 pcs	440	
159.1002	ERGOTORQUEplus screwdriver for slotted screws, 3mm, 155mm	40	
159.1004	ERGOTORQUEplus screwdriver for slotted screws, 4mm, 180mm	50	
159.1006	ERGOTORQUEplus screwdriver for slotted screws, 5,5mm, 230mm	50	
159.1009	ERGOTORQUEplus screwdriver for slotted screws, 6,5mm, 255mm	90	
159.1020	ERGOTORQUEplus screwdriver for screws PH, PH1, 180mm	40	
159.1021	ERGOTORQUEplus screwdriver for screws PH, PH2, 205mm	70	
201.2305	Steel hand wire brush 3 rowed, 290mm	120	
300.0060	Wooden folding rule, yellow, 2m	100	
517.0123	Double open ended spanner set, 11 pcs, 6x7-30x32mm	1600	
907.2188	Pen knife, straight+narrow pointed blade	60	
997.1215	Small handsaw,150mm	100	
999.0120	Sheet steel toolbox, 5 compartments, 420mm	3450	

Premium plumbing tool set

- For optimal use in plumbing for sanitary assembly
- In durable leather tool case

			kg	
116.0195	116 pcs	Premium plumbing tool set	16,40	

consists of:

		g	
101.5016	Mini pipe cutter, 3-16mm	120	
103.5000	Telescopic pipe cutter, 6-38mm	500	
113.1000	Swed. pattern pipe wrench 45° angled,1"	820	
115.1021	ERGOTORQUE combination pliers, 180mm	300	
115.1024	ERGOTORQUE long nose pliers serrated cutter, 200mm	230	
115.2000	Water pump pliers, 1.1/4"	310	
116.1000	Fitting pliers, 1"	790	
116.1002	Fitting wrench, 60mm	550	
116.1200	Siphon pliers, 4 position, 100mm	320	
116.5000	Special sanitary spanner, 17 x 19mm, 220mm	250	
118.0052	Tin snips sheet metal shear, self opening, right handed cut	400	
122.2100	Bit and drive socket set, 31 pcs, 1/4"	670	
125.1000	Tap nut wrench Ø 10-32 mm, 275mm	500	
130.3000	Step key set, 2 pcs, 3/8"-1"	610	
142.1350	Fitters hammer, hickory handle, 500g	590	
142.5125	Club hammer, ash handle, 1250g	1360	
151.2100	3 in 1 Ball ended hexagon key wrench set, 8 pcs long	330	
156.0406	Centre punch, round, burnished, 6mm	60	
156.0512	Pointed chisel, octagonal shaft, 300mm	400	
156.0531	Flat chisel, octagonal shaft, 250x24mm	380	
159.1004	ERGOTORQUEplus screwdriver for slotted screws, 4mm, 180mm	50	
159.1007	ERGOTORQUEplus screwdriver for slotted screws, 5,5mm, 255mm	60	
159.1009	ERGOTORQUEplus screwdriver for slotted screws, 6,5mm, 255mm	90	
159.1020	ERGOTORQUEplus screwdriver for screws PH, PH1, 180mm	40	
159.1021	ERGOTORQUEplus screwdriver for screws PH, PH2, 205mm	70	
159.1024	ERGOTORQUEplus screwdriver for screws PH, PH3, 265mm	130	
204.5400	Aluminium profile spirit level, 400mm	320	
300.0062	Wooden folding rule, white, 2m	110	
300.0133	Tape measure with locking device and belt clip, black grey, 5m, 25mm	150	
500.7160	Precision screwdriver set,Torx,7 pcs	100	
517.0123	Double open ended spanner set, 11 pcs, 6x7-30x32mm	1600	
577.0250	Adjustable spanner, 28mm	450	
907.2100	Hacksaw frame, 300mm	270	
907.2165	Universal snap off blade knife, 140mm, blade 18x100mm	90	
907.2265	STAINLESS STEEL scraper, 75mm, wooden handle	80	
911.2060	1/4" Bit set, 32 pcs	300	
911.2188	Tension tester with protective insulation 150-250 V, 145mm	14	
997.1215	Small handsaw,150mm	100	
999.2034	Gypsum cup, 0,65 litre	60	
850.0315	Tool case, leather, 430x190x340mm	3600	

Premium plumbing tool set

- For optimal use in plumbing for sanitary assembly
- In durable metal tool box

			kg	
116.0196	116 pcs	Premium plumbing tool set	18,40	

consists of:

		g	
101.5016	Mini pipe cutter, 3-16mm	120	
103.5000	Telescopic pipe cutter, 6-38mm	500	
113.1000	Swed. pattern pipe wrench 45°angled,1"	820	
115.1021	ERGOTORQUE combination pliers, 180mm	300	
115.1024	ERGOTORQUE long nose pliers serrated cutter, 200mm	230	
115.2000	Water pump pliers, 1.1/4"	310	
116.1000	Fitting pliers, 1"	790	
116.1002	Fitting wrench, 60mm	550	
116.1200	Siphon pliers, 4 position, 100mm	320	
116.5000	Special sanitary spanner, 17 x 19mm, 220mm	250	
118.0052	Tin snips sheet metal shear, self opening, right handed cut	400	
122.2100	Bit and drive socket set, 31 pcs, 1/4"	670	
125.1000	Tap nut wrench Ø 10-32 mm, 275mm	500	
130.3000	Step key set, 2 pcs, 3/8"-1"	610	
142.1350	Fitters hammer, hickory handle, 500g	590	
142.5150	Club hammer, ash handle, 1500g	1600	
151.2100	3 in 1 Ball ended hexagon key wrench set, 8 pcs long	330	
156.0511	Pointed chisel, octagonal shaft, 250mm	390	
156.0531	Flat chisel, octagonal shaft, 250x24mm	380	
159.1004	ERGOTORQUEplus screwdriver for slotted screws, 4mm, 180mm	50	
159.1007	ERGOTORQUEplus screwdriver for slotted screws, 5,5mm, 255mm	60	
159.1009	ERGOTORQUEplus screwdriver for slotted screws, 6,5mm, 255mm	90	
159.1020	ERGOTORQUEplus screwdriver for screws PH, PH1, 180mm	40	
159.1021	ERGOTORQUEplus screwdriver for screws PH, PH2, 205mm	70	
159.1024	ERGOTORQUEplus screwdriver for screws PH, PH3, 265mm	130	
159.1198	ERGOTORQUEplus 1/4" bit screwdriver 205mm	90	
204.5400	Aluminium profile spirit level, 400mm	320	
300.0060	Wooden folding rule, yellow, 2m	100	
300.0133	Tape measure with locking device and belt clip, black grey, 5m, 25mm	150	
500.7160	Precision screwdriver set,Torx,7 pcs	100	
517.0123	Double open ended spanner set, 11 pcs, 6x7-30x32mm	1600	
577.0300	Adjustable spanner, 34mm	690	
907.2100	Hacksaw frame, 300mm	270	
907.2165	Universal snap off blade knife, 140mm, blade 18x100mm	90	
907.2262	STAINLESS STEEL scraper, 38mm, wooden handle	70	
911.2060	1/4" Bit set, 32 pcs	300	
911.2188	Tension tester with protective insulation 150-250 V, 145mm	14	
997.1215	Small handsaw,150mm	100	
999.2034	Gypsum cup, 0,65 litre	60	
999.0125	Sheet steel toolbox, 5 compartments, 550mm	5600	

PIPELINE VIDEOSCOPE

ULTIMATE*vision* MASTER videoscope set with sensor drum

- Probe with dimensionally stable pushrod
- Flexible probe head for optimum bend flexibility
- 8 dimmable white mini LED lamps
- Mobile and network independent system
- Abrasion resistant, spring sheathed probe head shaft
- Excellent picture quality and viewing through special camera in the probe head
- Very good picture and video quality
- 1.5 times digital zoom function
- Horizontal picture reflection function
- Picture reception in JPEG format
- Video records in MPEG4-format
- View on large monitor with AV cable
- Data transfer directly through USB cable possible
- SD port for SD card
- Multi lingual menu (14 languages)
- Wide range of applications in pipes and shafts
- 2 Component housing protects against light impacts
- Including meter counter
- In durable plastic storage case

Contents:
Sensor drum with pushrod + camera head
Basic unit ULTIMATE vision MASTER
Meter counter
2 GB SD card

Technical data hand held unit:

Weight:	3000 g
Screen:	3,5" (TFT LCD QVGA)
Output format:	NTSC and PAL
Picture storage format:	JPEG (640 x 480)
Compression format:	MPEG4
Storage medium:	SD card up to a max. 2 GB
Rechargeable battery:	Li-Polymer 3,7 V (AC 100-240V / 50-60Hz)
Power requirement:	DC 5,5 - 1,8 A
Operating time :	ca. 4 h rechargeable battery
Protection class:	IP 68
Operating temperature:	-10°C to +60°C
Language manual:	DE, EN, FR, ES, IT, DA, ZH, RU, NL, AR, JA, PL, BG
Length:	24,3 mm
Ø:	28,0 mm

Technical data probe head:

Aperture angle:	diagonal 150.8°
Camera resolution:	320 (H) x 240 (V) = 76,800 Pixel
Focused depth of field:	10 ~ ∞ mm
AV Magnification:	is up to 15" over cinch
Light source:	8 dimmable white mini LED lamps
Brightness:	33 Lux
Operating temperature:	-10°C to +60°C
Camera protection:	designed out of sapphire glasse camera sheath made out of stainless steel
Bend radius:	max. 30 mm
Application:	40-100mm - 90°bend flexibility above Ø50mm

Technical data drum with pushrod:

Length:	30,00 m
Ø:	6 mm
Bend radius:	min. 150 mm
Operating temperature:	-10°C up tp +70°C
Protection class:	IP 65
Drum Ø:	300 mm

			kg	
550.7221	3 pcs	ULTIMATE*vision* MASTER videoscope set with sensor drum	10,60	

Brush for videoscope

- for use with 500.7221
- For centric use of the camera

	DN	Length mm	g	
550.7228	100	150,0	64	
550.7227	150	150,0	151	

Aluminium adaptor for videoscope

- for use with 500.7221

	Ø mm	Length mm	g	
550.7229	50,0	36,0	61	

Alcohol cleaning set

- Suitable for all ULTIMATE*vision* Videoscopes

		g	
550.7998	Alcohol cleaning set	50	

GROUTING TOOLS

Fugi-Maxi silicone scraper set

- For building sealants and expansion joints with silicone, acrylic, polyurethane etc.
- Optimum working result without tedious masking
- Through working without a release agent optimum durability and adhesion of the joints
- Plastic
- In durable plastic case

116.1010	3 pcs	Fugi-Maxi silicone scraper set	100

Fugi-Maxi silicone scraper set

- For building sealants and expansion joints with silicone, acrylic, polyurethane etc.
- Optimum working result without tedious masking
- Through working without a release agent optimum durability and adhesion of the joints
- Tip slides allow easy traverse ready produced seams
- Plastic
- In durable plastic case

116.1020	7 pcs	Fugi-Maxi silicone scraper set	150

FUGENFIX silicone scraper and wiper set

- For building sealants and expansion joints with silicone, acrylic, polyurethane etc.
- Optimum working result without tedious masking
- With 5 different radius adapters
- For dressing silicone
- Through working without a release agent optimum durability and adhesion of the joints
- Plastic

116.1050	7 pcs	FUGENFIX silicone scraper and wiper set	115

MILLERS AND PUNCHES

Tap seating milling set 3/8" - 1"

- For accurate re-milling of the valve seats on leaky water taps
- Adjustable via spring milling head and regulation screw
- Fits all standard threaded fittings by graded cylindrical which is included
- Mill replaceable
- In durable metal case

136.1100	5 pcs	Tap seating milling set 3/8" - 1"	870

consists of:

136.1000	Water tap seating milling tool	190
136.1003	Mill, 3/8" x 14 mm OD	20
136.1004	Mill, 1/2" x 17 mm OD	20
136.1005	Mill, 3/4" x 24 mm OD	20
136.1006	Mill, 1" x 28 mm OD	20

Tap seating milling set 1/4" - 1"

- For accurate re-milling of the valve seats on leaky water taps
- Adjustable via spring milling head and regulation screw
- Fits all standard threaded fittings by graded cylindrical which is included
- Mill replaceable
- In durable plastic storage case

136.1105	6 pcs	Tap seating milling set 1/4" - 1"	870

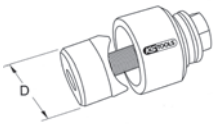
consists of:

136.1000	Water tap seating milling tool	190
136.1002	Mill, 1/4" x 12 mm	20
136.1003	Mill, 3/8" x 14 mm OD	20
136.1004	Mill, 1/2" x 17 mm OD	20
136.1005	Mill, 3/4" x 24 mm OD	20
136.1006	Mill, 1" x 28 mm OD	20

Screw hole punch

- 3 point gate
- High strength bolt
- Positive cutting edge geometry
- To that separating from thin sheet metals
- For difficult to access areas
- Burnished surface
- Special tool steel

Ideally usably in V2A sheet to 1.5 mm, aluminum, copper, steel as well as stainless steel and plastics. The sheet metal thicknesses can be exceeded at the expense of screw. Especially suited for burr free, clean, effortless and fast punching.



	D mm	Standard	Replacement tension screw	Tension srew	Tapping hole	Content	
129.0012	12,5	ISO 12	129.0001	MF 8 x 1 x 55,0	9	1	72
129.0013	12,7	PG7	129.0001	MF 8 x 1 x 55,0	9	1	73
129.0015	15,2	PG9	129.0001	MF 8 x 1 x 55,0	9	1	94
129.0016	16,0	ISO 16	129.0001	MF 8 x 1 x 55,0	9	1	96
129.0018	18,6	PG11	129.0001	MF 8 x 1 x 55,0	9	1	112
129.0020	20,4	PG13	129.0002	MF 12 X 1,5 X 55	13	1	160
129.0021	20,5	ISO 20	129.0002	MF 12 X 1,5 X 55	13	1	161
129.0022	22,5	PG16	129.0002	MF 12 X 1,5 X 65	13	1	164
129.0025	25,4	ISO 12	129.0002	MF 12 X 1,5 X 65	13	1	185
129.0026	25,5	ISO 25	129.0002	MF 12 X 1,5 X 65	13	1	186
129.0028	28,3	PG21	129.0002	MF 12 X 1,5 X 65	13	1	212
129.0030	30,5	ISO 12	129.0002	MF 12 X 1,5 X 65	13	1	250
129.0032	32,5	ISO 32	129.0002	MF 12 X 1,5 X 65	13	1	252
129.0035	35,0	ISO 12	129.0002	MF 12 X 1,5 X 65	13	1	378
129.0037	37,0	PG29	129.0002	MF 12 X 1,5 X 65	13	1	380
129.0038	38,0	ISO 12	129.0002	MF 12 X 1,5 X 65	13	1	394
129.0040	40,5	ISO 40	129.0002	MF 12 X 1,5 X 65	13	1	398
129.0047	47,0	PG36	129.0003	MF 16 x 1,5 x 75,0	18	1	834
129.0050	50,5	ISO 50	129.0003	MF 16 x 1,5 x 75,0	18	1	768
129.0054	54,0	PG42	129.0003	MF 16 x 1,5 x 75,0	18	1	964

Screw hole punch with chip break

- 3 point gate
- High strength bolt
- Positive cutting edge geometry
- To that separating from thin sheet metals
- For difficult to access areas
- Burnished surface
- Special tool steel

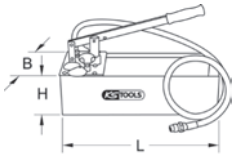
Ideally usably in V2A sheet up to 1.5 mm aluminium, copper sheet metal and iron sheet metal to 2.0 mm as well as stainless steel and plastics.
The sheet metal thicknesses can be exceeded at the expense of screw.
Especially suited for burr free clean, effortless and fast punching.

	D mm	Standard	Replacement tension screw	Tapping hole	
129.0204	16,5	ISO 16	129.0001	9	125
129.0205	18,6	PG11	129.0001	9	145
129.0206	20,4	PG13	129.0002	13	170
129.0207	20,5	ISO 20	129.0002	13	170
129.0208	22,5	PG16	129.0002	13	190
129.0209	25,4	ISO 12	129.0002	13	200
129.0210	25,5	ISO 25	129.0002	13	200
129.0211	28,3	PG21	129.0002	13	310
129.0212	30,5	ISO 12	129.0002	13	340
129.0213	32,5	ISO 32	129.0002	13	345
129.0214	35,0	ISO 35	129.0002	13	480

TEST PUMPS

Pressure test pump

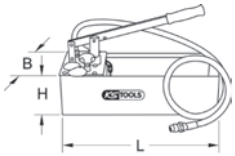
- Operating pressure max. 20 bar
- Tank capacity 12 litre's
- 2 lock valves
- Low lying pressure gauge with protective cover
- Pump lever with a locking chain
- Inclusive 1.5 m high pressure hose with steel mesh reinforcement and 1/2" connector
- Red powder coating
- Monobloc version
- Piston made of plastic



	B mm	H mm	L mm	kg
902.1004	195,0	222,0	505,0	6,20

Stainless steel pressure test pump

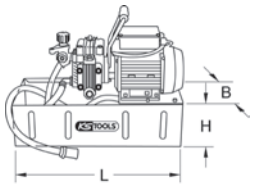
- Operating pressure max. 20 bar
- Tank capacity 12 litre's
- 2 lock valves
- Low lying pressure gauge with protective cover
- Pump lever with a locking chain
- Inclusive 1.5 m high pressure hose with steel mesh reinforcement and 1/2" connector
- Monobloc version
- Piston made of plastic



	B mm	H mm	L mm	kg
902.2004	195,0	222,0	505,0	6,70

Electric pressure test pump

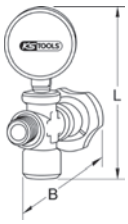
- Operating pressure max. 20 bar
- Tank capacity 12 litre's
- Flow rate: 13.5 l/ min
- Power 600W
- Rotational speed 1,400 rpm
- 220V power supply
- For using to test closed fluid systems
- Inclusive 1,5 m high pressure hose with 1/2" connector
- Red powder coating
- Brass piston pumps
- Tank made of galvanized steel



	B mm	H mm	L mm	kg
902.3004	190,0	410,0	500,0	17,40

Auxillary gauge

- Max. 12 bar
- By using the auxillary gauge can be used to pressure test pump for further tests
- 1/2" Internal and external threaded connector
- Special tool steel

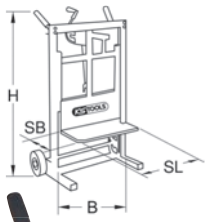


	B mm	L mm	g
902.1005	63,0	226,0	600

RADIATOR TRANSPORT TROLLEY

Radiator transport trolley

- Practical transport trlley to transport radiators
- With automatic brake
- Max. payload: 150 kg
- Max. height 370 mm
- Special tool steel

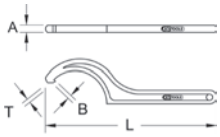


	B mm	H mm	SL mm	SB mm	kg
160.0230	610,0	980,0	420,0	195,0	30,00

HOOK WRENCH

Fixed hook wrench with nose

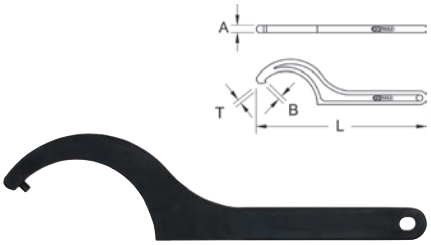
- In accordance to DIN 1810 Form A
- With hanging hole
- For slotted nuts
- Burnished
- Chrome vanadium



	mm	A mm	B mm	L mm	T mm	g
517.1370	12 - 14	2,5	2,0	109,5	1,5	22
517.1371	16 - 20	2,5	2,0	109,5	1,5	22
517.1372	25 - 28	4,0	2,5	135,9	2,0	36
517.1373	30 - 32	4,0	2,5	135,9	2,0	36
517.1374	34 - 36	5,0	3,0	170,2	2,0	82
517.1375	40 - 42	5,0	3,0	170,3	2,0	76
517.1376	45 - 50	6,0	3,5	195,0	2,0	132
517.1377	52 - 55	7,0	3,5	220,0	2,5	176
517.1378	58 - 62	7,0	4,0	240,0	2,5	224
517.1379	68 - 75	7,6	4,0	260,0	3,0	280
517.1380	80 - 90	8,0	5,0	280,0	3,5	368
517.1381	92 - 100	8,0	5,0	280,0	3,5	394
517.1382	110 - 115	9,5	5,0	334,9	4,0	590
517.1383	120 - 130	9,5	5,0	334,9	4,0	540

Fixed hook wrench with pin

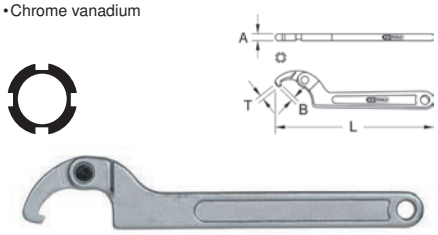
- In accordance to DIN 1810 Form B
- With hanging hole
- For pin type round nuts
- Burnished
- Chrome vanadium



	mm	A mm	B mm	L mm	T mm	kg
517.1471	12 - 14	3,0	2,0	110,0	2,0	0,03
517.1472	16 - 18	3,0	2,5	110,0	2,5	0,03
517.1473	20 - 22	3,0	2,5	110,0	2,5	0,03
517.1474	25 - 28	4,0	3,0	136,0	3,0	0,06
517.1488	30 - 32	5,0	4,0	136,0	3,0	0,06
517.1476	34 - 36	5,0	4,0	170,0	3,5	0,10
517.1477	40 - 42	5,0	4,0	170,0	3,5	0,10
517.1478	45 - 50	6,0	5,0	206,0	4,0	0,17
517.1479	52 - 55	6,0	5,0	206,0	4,0	0,17
517.1480	58 - 62	7,0	5,0	240,0	5,0	0,27
517.1481	68 - 75	7,0	6,0	240,0	5,0	0,27
517.1482	80 - 90	8,0	6,0	280,0	6,0	0,41
517.1483	95 - 100	8,0	8,0	280,0	6,0	0,41
517.1484	110 - 115	8,0	8,0	335,0	8,0	0,61
517.1485	120 - 130	8,0	8,0	335,0	8,0	0,61
517.1486	135 - 145	8,0	8,0	380,0	8,0	0,79
517.1487	155 - 165	8,0	8,0	380,0	8,0	0,79

Hook wrench with nose

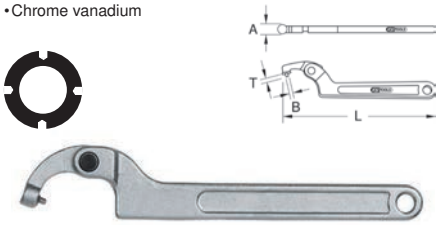
- In accordance to DIN 1810 Form A
- With flexible head
- With hanging hole
- For slotted nuts
- Matt finish
- Chrome vanadium



	mm	A mm	B mm	L mm	T mm	g
517.1316	13 - 35	5,2	3,2	175,0	3,2	96
517.1317	35 - 50	5,9	4,0	202,0	4,2	186
517.1318	50 - 80	7,5	4,9	280,0	5,2	392
517.1319	80 - 120	8,2	5,3	345,0	5,8	656
517.1320	120 - 180	10,8	8,9	465,0	7,8	1286

Flexible hook wrench with pin

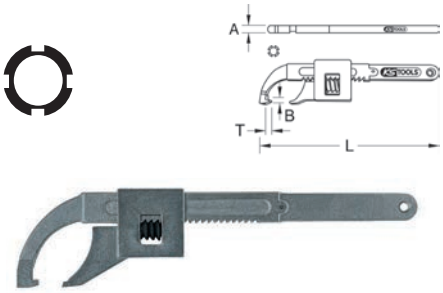
- In accordance to DIN 1810 Form B
- With flexible head
- With hanging hole
- For pin type round nuts
- Matt finish
- Chrome vanadium



	mm	A mm	B mm	L mm	T mm	g
517.1323	15 - 35	9,8	2,8	177,0	2,8	96
517.1324	35 - 50	10,7	3,8	202,0	3,6	186
517.1325	50 - 80	14,0	4,8	280,0	5,0	380
517.1326	80 - 120	17,2	5,8	345,0	7,0	652
517.1327	120 - 180	19,2	7,8	465,0	9,0	1318

Hook wrench with nose

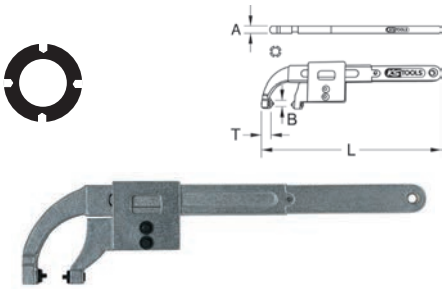
- In accordance to DIN 1810 Form A
- With flexible head
- With hanging hole
- For slotted nuts
- Matt finish
- Chrome vanadium



	mm	A mm	B mm	L mm	T mm	g
517.1397	10 - 50	7,6	4,2	210,0	4,5	380
517.1398	20 - 100	8,2	6,8	360,0	5,5	840
517.1399	30 - 200	10,6	9,4	570,0	7,0	2250

Flexible hook wrench with pin

- In accordance to DIN 1810 Form B
- With flexible head
- With hanging hole
- For pin type round nuts
- Matt finish
- Chrome vanadium



	mm	A mm	B mm	L mm	T mm	g
517.1328	10-50	8,3	2,6	210,0	2,5	380
517.1329	20-100	12,3	4,0	360,0	4,5	840
517.1330	30-200	17,3	5,8	570,0	4,8	2250

VICES

Pipe vice

- Hinged
- V-shaped support
- Special tool steel
- Ideal for working with hydraulics and pneumatic lines

	Clamping range mm	Clamping range	kg
914.0010	10,0 - 60,0	1/8" - 2"	6,88
914.0011	10,0 - 89,0	1/8" - 3"	6,88

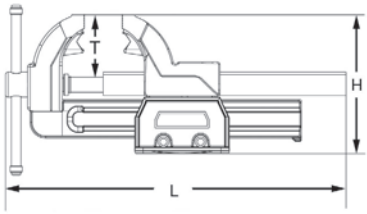
Bench vice

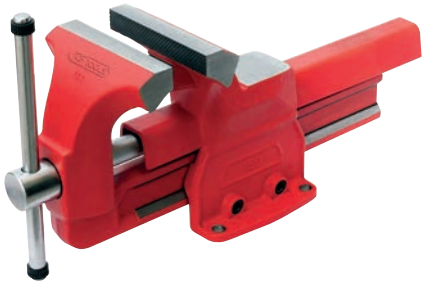
- With swivel base
- Interchangeable jaws
- Includes pipe vice attachment
- Absolutely parallel with adjustable centric drive
- Extra high possible clamping jaws shaped by large embossed casting
- Large anvil for straightening and compression work
- Induction hardened jaws and anvil
- Vise forward opening
- Ground jaws, anvil plate and slide corners
- Special steel

	Jaw length	Jaw length mm	Clamping range mm	kg
914.0003	3"	75,0	100,0	7,50
914.0004	4"	100,0	120,0	8,70
914.0005	5"	130,0	140,0	11,00
914.0006	6"	150,0	170,0	14,50
914.0008	8"	200,0	200,0	20,50

Bench vice

- With adjusting screw and pipe clamps
- Forged front and rear jaws
- Extra high possible clamping jaws shaped by large embossed casting
- Durable prismatic guide
- With mounting screws for turntable
- Induction hardened jaws and anvil
- Double start trapezoidal thread for quick opening and closing
- Vise forward opening
- Ground jaws, anvil plate and slide corners
- Special tool steel

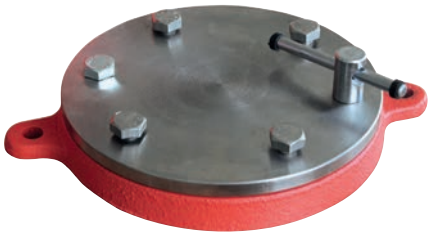




	Jaw length mm	Clamping range mm	T mm	H mm	L mm	Cudgel ø mm	kg
914.0026	90,0	100,0	70,0	143,0	290,0	12,0	5,00
914.0031	120,0	120,0	83,5	163,0	360,0	14,0	11,00
914.0036	147,0	180,0	100,0	212,0	450,0	16,0	20,00
914.0041	167,0	210,0	112,0	243,0	535,0	18,0	29,00

Turntable for bench vice

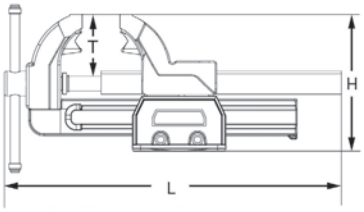
- Ideal supplement for KS-vices 914.0027 - 914.0041
- Enables accurate positioning of the workpiece
- 360° freely rotatable
- Safe and quick locking via handle
- Flat and stable construction
- Inclusive fastening screws for vice



		Ø mm	kg	
914.0027	914.0026	90,0	1,40	
914.0032	914.0031	120,0	2,80	
914.0037	914.0036	147,0	3,75	
914.0042	914.0041	167,0	4,85	

Parallel vice with round plate

- With adjusting screw and pipe clamps
- Forged front and rear jaws
- Extra high possible clamping jaws shaped by large embossed casting
- Durable prismatic guide
- With mounting screws for turntable
- Induction hardened jaws and anvil
- Double start trapezoidal thread for quick opening and closing
- Vise forward opening
- Ground jaws, anvil plate and slide corners
- Special tool steel



		Jaw length mm	kg	
914.0025	2 pcs	90,0	6,40	
914.0030	2 pcs	120,0	13,80	
914.0035	2 pcs	147,0	23,75	
914.0040	2 pcs	167,0	33,85	

Aluminium bench vice protective jaws with textured surface

- Suitable for all bench vices
- The profile is right angled and level parallel
- Integrated special magnet hold the protective jaws safely on the vice
- For material protection and non slip grip on sensitive materials
- For coarse to medium fine work pieces
- Fine textured
- Aluminium

	Protective jaws mm	g	
914.0080	100,0	170	
914.0081	120,0	210	
914.0082	140,0	240	
914.0083	160,0	260	
914.0084	175,0	290	

Aluminium bench vice protective jaws with trapezoid notches

- Suitable for all bench vices
- The profile is right angled and level parallel
- Integrated special magnet hold the protective jaws safely on the vice
- For material protection and non slip grip on sensitive materials
- For different shaped materials
- For trapezoid use
- Aluminium

	Protective jaws mm	g	
914.0085	100,0	145	
914.0086	120,0	187	
914.0087	140,0	210	
914.0088	160,0	226	
914.0089	175,0	248	

Aluminium bench vice protective jaws with rubber insert

- Suitable for all bench vices
- The profile is right angled and level parallel
- Integrated special magnet hold the protective jaws safely on the vice
- For material protection and non slip grip on sensitive materials
- For thin walled wood and plastic parts
- Smooth
- Aluminium / rubber

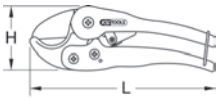
	Protective jaws mm	g	
914.0090	100,0	163	
914.0091	120,0	207	
914.0092	140,0	224	
914.0093	140,0	204	
914.0094	175,0	276	

Spirit levels can be found in the Measuring and testing tools section.

PLASTIC PIPE PROCESSING

Plastic pipe cutter

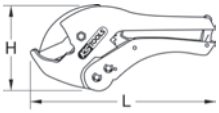
- For PE, PP and PVDF pipes
- Stainless steel blade
- Die cast body



	Ø mm	H mm	L mm		g	
222.0001	0 - 32,0	70,0	200,0	222.0011	290	
222.0002	0 - 42,0	95,0	220,0	222.0012	430	
222.0003	0 - 63,0	135,0	430,0	222.0013	1200	
222.0004	0 - 75,0	175,0	480,0	222.0014	1600	

Automatic plastic pipe cutter 0 - 42 mm

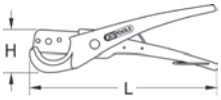
- For PE, PP and PVDF pipes
- Stainless steel blade
- Die cast body



	Ø mm	H mm	L mm		g	
222.0005	0 - 42,0	105,0	230,0	222.0015	600	

Hose cutter

- Teflon coated blade
- Aluminium die cast body



	Ø mm	H mm	L mm		g	
222.2051	0 - 37,0	95,0	210,0	222.2052	80	

Scissor set for hoses and plastic pipes

- ideal for angle-precise and clean cutting of rubber hoses, plastic pipes and various plastic profiles, such as cable ducts
- for rubber hoses with or without textile cover
- fittings for 16, 19 and 25 mm pipes included
- with prism for 90° profile
- with adjustable angle stop up to 45°
- In durable plastic storage case

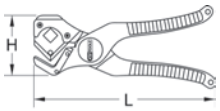
123.0075	7 pcs	Scissor set for hoses and plastic pipes	490

consists of:

123.0076	scissor-shaped with blades	290
123.0077	fitting for Ø 16 and 19 mm	30
123.0078	fitting for Ø 25 mm	78
123.0079	prism for 90° profile	63
123.0084	straight fitting	37
123.0086	angular stop	36
151.2604	Hexagon key wrench phosphate finish, short, 4mm	10

Hose cutter

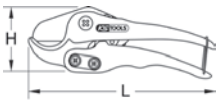
- Aluminium die cast body



	Ø mm	H mm	L mm		
222.2060	6,0 - 25,0	50,0	185,0	222.2061	300
222.2062	6,0 - 35,0	52,0	250,0	222.2061	452

Plastic pipe cutter Ø 0 - 32 mm

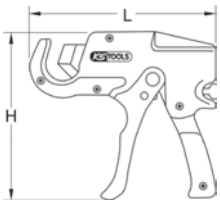
- Teflon coated cutting blades
- Aluminium die cast body



	Ø mm	H mm	L mm		
222.1001M	0 - 32,0	71,0	205,0	222.1011M	320

Plastic pipe cutting pistol Ø 6 - 35 mm

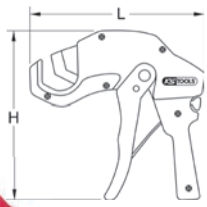
- Adjustable cutting feed through pushing the hand grips
- With knife locking knob for easy adjustment of the knife
- For thin walled plastic pipes up to max. Ø 5 mm
- Die cast body



	Ø mm	H mm	L mm		
222.1100	6,0 - 35,0	160,0	190,0	222.1101	630

Plastic pipe cutting pistol Ø 6 - 42 mm

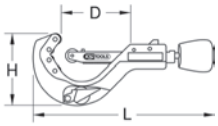
- Two stage cutting range 6 to 26 mm + 6 - 42 mm
- Adjustable cutting feed through pushing the hand grips
- With knife locking knob for easy adjustment of the knife
- For thin walled plastic pipes up to max. Ø 5 mm
- Die cast body



	Ø mm	H mm	L mm		
222.3100	6,0 - 42,0	220,0	210,0	222.3101	750

Automatic ratchet pipe cutter for plastic pipe

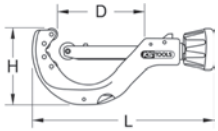
- For PE, PP and PVDF pipes
- With folding internal deburrer
- Includes spare wheel under the cover cap on the rotary handle
- Quick through ratchet telescopic guide with automatic spring return
- Steel cutting wheel retrofittable
- 4 support rollers
- With 2 support rollers
- With large knurled knob
- Metal housing
- Special tool steel



	L mm	D mm	H mm	Metal	V4A	Plastic	
222.0660	225,0	6,0 - 64,0	90,0	222.0665	-	222.0666	500

Automatic ratchet pipe cutter for copper pipe

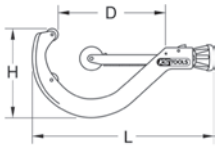
- For PE, PP and PVDF pipes
- With folding internal deburrer
- Quick through ratchet telescopic guide with automatic spring return
- Steel cutting wheel retrofittable
- 4 support rollers
- With 2 support rollers
- With large knurled knob
- Metal housing
- Special tool steel



	D mm	H mm	L mm	Metal	V4A	Plastic	
222.0750	6,0 - 76,0	100,0	250,0	222.0752	-	222.0751	800

Automatic ratchet pipe cutter for plastic pipe

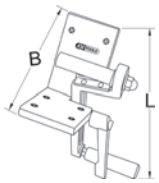
- For PE, PP and PVDF pipes
- Quick through ratchet telescopic guide with automatic spring return
- Metal cutter can be retrofitted
- Cutting depth max. 19 mm
- With 2 support rollers
- With large knurled knob
- Metal housing
- Special tool steel



	D mm	H mm	L mm	Metal	
222.1250	50,0 - 140,0	150,0	350,0	222.0752	1,54
222.1680	100,0 - 168,0	190,0	385,0	-	1,60

Plastic pipe chamfering device Ø 25 - 168 mm

- 15° Chamfering angle
- Flexible application
- Pipe wall thickness continuously adjustable during cutting application
- Special tool steel



	Ø mm	B mm	L mm	Replacement blades	g
222.5050	25,0 - 120,0	140,0	176,0	222.5051	850

Self-adjusting external pipe deburrer

- Special right-side adjustment mechanism provides optimum deburring results
- Infinitely variable
- One cutting edge for clean deburring
- For plastic pipes
- With three ball bearing rollers
- Suitable for drills and cordless screwdrivers
- Extremely robust, forged design
- Special tool steel

	Ø mm	Height mm	Replacement blades	g
123.0060	72,0 - 118,0	71,0	123.0062	349
123.0061	108,0 - 160,0	68,0	123.0062	512

Cutting and chamfering basic unit

- For cutting thin and thick walled plastic pipes
- Uniform chamfering of the entire pipe circumference
- Continuously adjustable tube clamping force
- Includes cutter plate 900.5029

		kg
222.5000	Cutting and chamfering basic unit	3,25

Cutting and chamfering kit

- For cutting thin and thick walled plastic pipes
- Uniform chamfering of the entire pipe circumference
- Continuously adjustable tube clamping force
- In durable plastic storage case

			kg
222.5100	7 pcs	Cutting and chamfering kit	4,60

consists of:

		g
205.2020	Deburring tool, 140x21mm	60
222.5000	Cutting and chamfering basic units 110mm	3250
222.5003	Reducing jaw set, 2 pcs, Ø 50mm	240
222.5007	Reducing jaw set, 2 pcs, Ø 75mm	240
850.0505	Universal plastic tool box	1700

Cutting and chamfering kit

- For cutting downpipes
- Uniform chamfering of the entire pipe circumference
- Continuously adjustable tube clamping force
- In durable plastic storage case

			kg
222.5110	6 pcs	Cutting and chamfering kit	4,91

consists of:

		g
222.5000	Cutting and chamfering basic units 110mm	3250
222.5009	Reducing jaw set, 2 pcs, Ø 80mm	240
222.5011	Reducing jaw set, 2 pcs, Ø 100mm	240
222.5106	Cutting tool shaft, variante2	100
850.0505	Universal plastic tool box	1700

Cutting and chamfering kit

- For cutting thick walled plastic pipes
- Uniform chamfering of the entire pipe circumference
- Continuously adjustable tube clamping force
- In durable plastic storage case

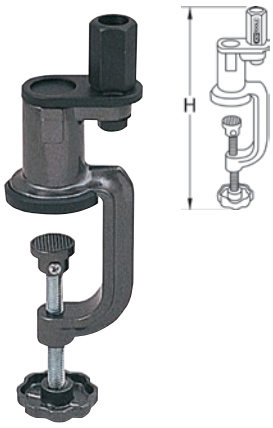
			kg
222.5200	7 pcs	Cutting and chamfering kit	5,80

consists of:

		g
205.2020	Deburring tool, 140x21mm	60
222.5220	Separation and chamfer tools, 160 mm	3600
222.5210	Reducing jaw set, 2 pcs, Ø 110mm	200
222.5211	Reducing jaw set, 2 pcs, Ø 125mm	200
850.0505	Universal plastic tool box	1700

Bench clamp for chamfering kit 222.5000

- Special steel



	H mm	g
222.5102	200,0	380

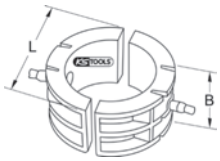
Bench clamp for chamfering kit 222.5220

- With 2 clamping arms

	B mm	H mm	kg
222.5202	210,0	170,0	1,10

Reducing jaw set for chamfering kit 222.5000

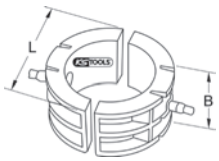
- Plastic jaws



	Ø mm	B mm	L mm	g
222.5001	32,0	56,0	108,0	240
222.5002	40,0	56,0	108,0	240
222.5003	50,0	56,0	108,0	240
222.5004	56,0	57,0	110,0	240
222.5005	58,0	57,0	110,0	240
222.5006	63,0	57,0	110,0	240
222.5007	75,0	73,0	110,0	240
222.5008	78,0	56,0	110,0	240
222.5009	80,0	56,0	110,0	240
222.5010	90,0	56,0	110,0	240
222.5011	100,0	56,0	110,0	240
222.5012	52,0	56,0	110,0	240
222.5014	87,0	56,0	110,0	240

Reducing jaw set for chamfering kit 222.5220

- Plastic jaws



	Ø mm	B mm	L mm	g
222.5210	110,0	56,0	160,0	200
222.5211	125,0	56,0	160,0	200
222.5212	135,0	56,0	160,0	200
222.5213	140,0	56,0	160,0	200

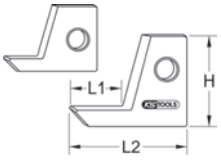
Cutting tool shaft includes cutting tool for 222.5000

- For thin walled plastic pipe
- Special tool steel

	B mm	L mm	g
222.5105	19,0	89,0	120

Replacement carbide cutting blade for 222.5000 + 222.5220

- For thin and thick walled plastic pipe
- Cutting depth max. 10mm + 15.5mm
- Special tool steel



	Cutting depth mm	H mm	L mm	g
900.5019	15,5	20,3	25,5	20
900.5029	10,0	14,7	20,2	10

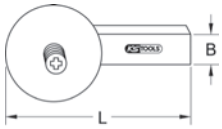
Cutting tool shaft includes replacement cutter for 222.5000 + 222.5220

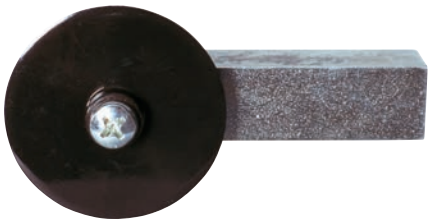
- For thin walled plastic pipes
- Special tool steel

	B mm	L mm	Metal	V²A	Plastic	g
222.5106	16,0	80,0	-	-	101.1010	100

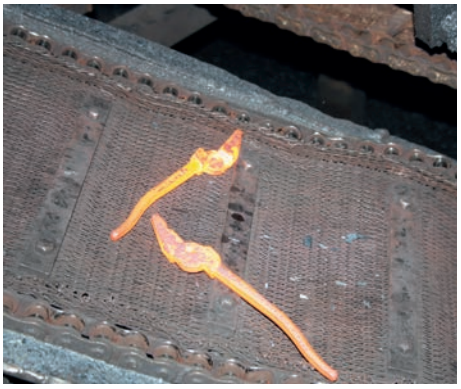
Cutting tool shaft includes replacement cutter for 222.5000 + 222.5220

- For thick walled plastic pipes
- Special tool steel





	B mm	L mm	Metal	V²A	Plastic	g
222.5104	16,0	90,0	-	-	222.0751	120



WELDING

Sleeve welding tool set 850 W

- Thermostatic control from 180°C - 280°C
- Increased thermal efficiency
- Optimized welding with new heat sword device
- Teflon coated welding extensions
- In durable steel storage case

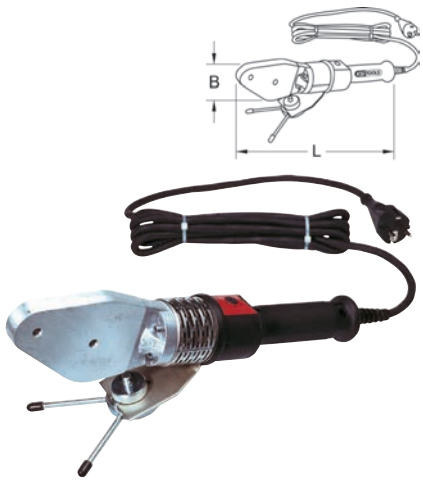
			kg
207.6500	6 pcs	Sleeve welding tool set 850 W	8,60

consists of:

		g
207.6501	Sleeve welding tool, 180°-280°C	2000
206.6511	Bench clamp for sleeve welding tool	495
207.1020	Welding attachment for sleeve welding tool, Ø 20mm	110
207.1025	Welding attachment for sleeve welding tool, Ø 25mm	140
207.1032	Welding attachment for sleeve welding tool, Ø 32mm	190

Sleeve welding tool

- Thermostatic control from 180°C - 280°C
- Increased thermal efficiency
- Optimized welding with new heat sword device
- Includes floor stand



	B mm	L mm	kg
207.6501	85,0	370,0	2,00

Welding attachment for sleeve welding tool

- Teflon coated

	Ø mm	B mm	L mm	g
207.1016	16,0	38,0	61,0	80
207.1020	20,0	43,0	52,0	110
207.1025	25,0	46,0	52,0	140
207.1032	32,0	48,0	59,0	190
207.1040	40,0	57,0	61,0	290
207.1050	50,0	61,0	61,0	410
207.1063	63,0	130,0	78,0	720

Heater element 800 W

- Temperature adjustable from 50°C - 260°C
- For pipe up to max. Ø 180 mm
- For efficient butt welding of plastic pipes and fittings
- Optimal temperature distribution
- Includes stand and holding device for machine tools
- 220 V power supply

	D mm	L mm	kg
222.0800	180,0	340,0	4,10

BURNING & SOLDERING

Universal cartridge soldering torch

- Flame temperature 1700°C
- Operating temperature around 650 °C
- Pipe diameter max. Ø 22 mm
- Supplied without gas cartridge
- Plastic body

	H mm	L mm	g
903.5901	168,0	255,0	890

Universal cartridge soldering torch

- Flame temperature 1700°C
- Operating temperature around 650 °C
- Pipe diameter max. Ø 22 mm
- Supplied without gas cartridge
- Metal body

	H mm	L mm	g
903.5904	158,0	250,0	780

Universal cartridge soldering torch with piezo ignition

- Flame temperature 1700°C
- Operating temperature around 650 °C
- Pipe diameter max. Ø 22 mm
- Supplied without gas cartridge
- Use only with standard high performance burner
- Plastic body

	H mm	L mm	g
903.5902	165,0	270,0	890

Universal cartridge soldering torch with piezo ignition

- Flame temperature 1700°C
- Operating temperature around 650 °C
- Pipe diameter max. Ø 22 mm
- Supplied without gas cartridge
- Use only with standard high performance burner
- Metal body

	H mm	L mm	g
903.5905	165,0	270,0	725

Burner accessories kit

- Burner accessories suitable for 903.5901 + 903.5904
- Special tool steel

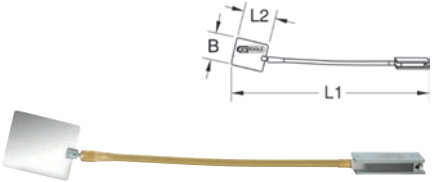
			g
903.5910	3 pcs	Burner accessories kit	300

consists of:

		g
903.5911	Soldering iron tip attachment	100
903.5912	Pipe soldering attachment up to 22 mm	100
903.5913	Flat nozzle 40 mm	100

Magnetic welding mirrors

- Mirror chrome
- Flexible arm
- Special tool steel



	B mm	L1 mm	L2 mm	g
903.6000	70,0	500,0	80,0	470

Flame proof mats

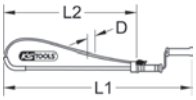
- Asbestos free
- Reduced fire risk
- Very flexible
- Good formability

	B mm	L mm	max. °C	g
610.3350	330,0	500,0	700	330
610.3351	460,0	800,0	700	650
610.3399	1500,0	2000,0	600	2110

PIPE CLEANING

Toilet unblocker

- Flexible use, even in hard to reach places
- No damage to ceramic surfaces due to the plastic coating on the elbow
- With bolbous head
- Crank drive



	D mm	L1 mm	L2 mm	g
900.1996	30,0	1090,0	900,0	200

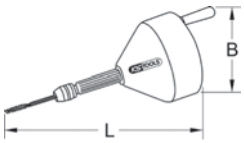
Pipe and drain cleaner

- Pipe cleaning device with funnel spiral and bulbous end for use in very narrow pieces of pipe elbows up to Ø 50 mm without removing the sink sleeves or siphons
- With a hexagonal chuck for clamping
- manual drive
- Impact resistant, closed plastic container

	Ø mm	Spiral length m	B mm	L mm	Replacement spiral	kg
900.1990	6,0	4,5	140,0	290,0	900.2522	1,60

Pipe and drain cleaner

- Pipe cleaning device with funnel spiral and bulbous end for use in very narrow pieces of pipe elbows up to Ø 75 mm without removing the sink sleeves or siphons
- With a hexagonal chuck for clamping
- Can be drive either by hand or drilling machine
- Impact resistant, closed plastic container



	Ø mm	Spiral length m	B mm	L mm	Replacement spiral	kg
900.1995	7,6	7,5	208,0	319,0	900.2416	3,40
900.2000	9,6	9,5	208,0	319,0	900.2422	5,10

Channel and pipe cleaning tool kit Ø 16 mm

- Pipe cleaning tool kit with spiral with a diameter of 16 mm
- Includes spiral basket for safe keeping of the spiral

			kg
900.1916	13 pcs	Channel and pipe cleaning tool kit Ø 16 mm	9,10

consists of:

		g
900.2100	Springs separation key, f.16mm	20
900.2110	Spiral basket, Ø 450mm, spirale 16mm	1250
900.2121	Guiding glove, left	210
900.2161	Straight head, Ø 16mm, spirale 16mm	60
900.2162	Spring recovery head, Ø35mm, spirale 16mm	40
900.2163	Bulbous head, Ø 28mm, spirale 16mm	70
900.2169	Arrow shaped head, Ø 25mm, spirale 16mm	40
900.2175	Crossed leaf shaped head, Ø 25mm, spirale 16mm	40
900.2431	Drain cleaning spiral, Ø 16mm	1050

Channel and pipe cleaning tool kit Ø 16 mm

- Pipe cleaning tool kit with spiral with an internal diameter of 16 mm
- Includes spiral basket for safe keeping of the spiral

			kg
900.1917	13 pcs	Channel and pipe cleaning tool kit Ø 16 mm	9,10

consists of:

		g
900.2100	Springs separation key, f.16mm	20
900.2110	Spiral basket, Ø 450mm, spirale 16mm	1250
900.2121	Guiding glove, left	210
900.2161	Straight head, Ø 16mm, spirale 16mm	60
900.2162	Spring recovery head, Ø35mm, spirale 16mm	40
900.2163	Bulbous head, Ø 28mm, spirale 16mm	70
900.2169	Arrow shaped head, Ø 25mm, spirale 16mm	40
900.2175	Crossed leaf shaped head, Ø 25mm, spirale 16mm	40
900.2433	Pipe cleaning spiral with plastic inner tube Ø 16mm	1240

Channel and pipe cleaning tool kit Ø 22 mm

- Pipe cleaning tool kit with spiral with a diameter of 22 mm
- Includes spiral basket for safe keeping of the spiral

			kg
900.1922	14 pcs	Channel and pipe cleaning tool kit Ø 22 mm	22,83

consists of:

		g
900.2101	Springs separation key, f.22 and 32mm	20
900.2112	Spiral basket, Ø 470mm, spirale 22mm	1600
900.2121	Guiding glove, left	210
900.2221	Straight head, Ø 22mm, spirale 22mm	170
900.2222	Funnel shaped head, Ø 55mm, spirale 22mm	280
900.2234	Arrow shaped head, Ø 45mm, spirale 22mm	110
900.2255	Cross leaf drill, Ø 55mm, spirale 22mm	140
900.2203	Spring recovery head, Ø 45mm, spirale 22mm	110
900.2263	Leg drills, Ø 40mm, spirale 22mm	220
900.2441	Drain cleaning spiral, Ø 22mm	4000

Channel and pipe cleaning tool kit Ø 22 mm

- Pipe cleaning tool kit with spiral with an internal diameter of 22 mm
- Includes spiral basket for safe keeping of the spiral

			kg
900.1923	14 pcs	Channel and pipe cleaning tool kit Ø 22 mm	25,13

consists of:

		g
900.2101	Springs separation key, f.22 and 32mm	20
900.2112	Spiral basket, Ø 470mm, spirale 22mm	1600
900.2121	Guiding glove, left	210
900.2221	Straight head, Ø 22mm, spirale 22mm	170
900.2222	Funnel shaped head, Ø 55mm, spirale 22mm	280
900.2234	Arrow shaped head, Ø 45mm, spirale 22mm	110
900.2255	Cross leaf drill, Ø 55mm, spirale 22mm	140
900.2203	Spring recovery head, Ø 45mm, spirale 22mm	110
900.2263	Leg drills, Ø 40mm, spirale 22mm	220
900.2442	Pipe cleaning spiral with plastic inner tube Ø 22mm	4650

Drain cleaning spiral

- Very flexible spiral
- For universal pipe cleaning applications
- Perfectly suited for tight bends
- With attachment for special tools
- Special tool steel

	Ø mm	Length m	kg
900.2431	16,0	2,30	1,05
900.2441	22,0	4,50	4,00
900.2451	32,0	4,50	6,50

Pipe cleaning spiral with plastic inner tube

- For working with large spiral lengths
- For removing stubborn pipe deposits
- High stability due to plastic inner tube
- Perfectly suited for tight bends
- Plastic inner core is temperature and weather resistant
- With attachment for special tools
- Special tool steel

	Ø mm	Length m	kg
900.2433	16,0	2,30	1,24
900.2442	22,0	4,50	4,65
900.2452	32,0	4,50	7,65

Arrow drill

- For cleaning greasy or very muddy pipes
- With riveting to the adaptor
- Hardened and high strength spring steel

	Ø mm	For spiral mm	Operation range mm	g
900.2169	25,0	16,0	38,0 - 50,0	40
900.2170	35,0	16,0	50,0 - 75,0	50
900.2171	45,0	16,0	60,0 - 100,0	70
900.2172	55,0	16,0	75,0 - 125,0	80
900.2233	35,0	22,0	50,0 - 100,0	100
900.2234	45,0	22,0	60,0 - 125,0	110
900.2254	65,0	22,0	75,0 - 125,0	300
900.2256	80,0	22,0	100,0 - 150,0	340
900.2257	90,0	22,0	100,0 - 150,0	350
900.2260	55,0	22,0	60,0 - 125,0	130
900.2335	35,0	32,0	50,0 - 100,0	140
900.2336	45,0	32,0	75,0 - 100,0	170
900.2337	55,0	32,0	75,0 - 100,0	180
900.2338	65,0	32,0	100,0 - 150,0	300
900.2361	90,0	32,0	125,0 - 200,0	360
900.2390	80,0	32,0	100,0 - 150,0	340

Cross leaf drill

- Can be used in textiles blocakages. clogging, sludge deposits, pipe incrustations etc.
- With riveting to the adaptor
- High stability and long life
- Hardened and high strength spring steel

	Ø mm	For spiral mm	Operation range mm	g
900.2175	25,0	16,0	38,0 - 50,0	40
900.2176	35,0	16,0	50,0 - 75,0	60
900.2177	45,0	16,0	60,0 - 100,0	80
900.2178	55,0	16,0	75,0 - 125,0	90
900.2235	35,0	22,0	50,0 - 100,0	110
900.2255	55,0	22,0	60,0 - 125,0	140
900.2275	45,0	22,0	75,0 - 100,0	120
900.2276	65,0	22,0	100,0 - 150,0	330
900.2277	80,0	22,0	100,0 - 200,0	370
900.2279	90,0	22,0	100,0 - 200,0	500
900.2280	115,0	22,0	100,0 - 250,0	560
900.2345	35,0	32,0	50,0 - 100,0	140
900.2346	55,0	32,0	60,0 - 125,0	210
900.2349	80,0	32,0	100,0 - 150,0	410
900.2371	65,0	32,0	100,0 - 125,0	350
900.2372	45,0	32,0	60,0 - 125,0	170
900.2379	90,0	32,0	125,0 - 200,0	510
900.2380	115,0	32,0	150,0 - 250,0	580

Forked cutting head

- Can be used in light to heavy contamination of the drainage pipe
- High stability and long life
- Hardened and high strength spring steel

	Ø mm	For spiral mm	Operation range mm	g
900.2164	40,0	16,0	40,0 - 75,0	20
900.2154	30,0	16,0	50,0 - 75,0	30

Notched forked cutting head

- Can be used with silting and deeply rooted pipes
- Cutting head front and rear dovetailed
- High stability and long life
- Hardened and high strength spring steel

	Ø mm	For spiral mm	Operation range mm	g
900.2250	65,0	22,0	75,0 - 100,0	220
900.2251	90,0	22,0	100,0 - 150,0	260
900.2252	125,0	22,0	125,0 - 200,0	290
900.2253	150,0	22,0	200,0 - 300,0	300
900.2350	65,0	32,0	75,0 - 100,0	260
900.2351	90,0	32,0	100,0 - 150,0	290
900.2352	125,0	32,0	125,0 - 200,0	330
900.2353	150,0	32,0	200,0 - 300,0	340

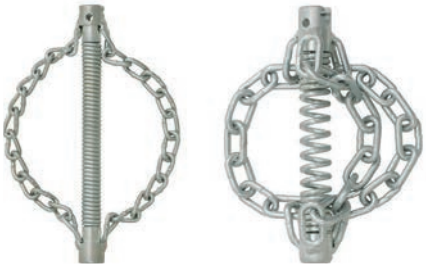
Root cutter

- Can be used with pipes that are rooted
- High stability and long life
- Hardened and high strength spring steel

	Ø mm	For spiral mm	Operation range mm	g
900.2265	65,0	22,0	75,0 - 100,0	350
900.2266	90,0	22,0	125,0 - 200,0	490
900.2267	125,0	22,0	200,0 - 300,0	770
900.2365	65,0	32,0	75,0 - 100,0	390
900.2366	90,0	32,0	125,0 - 200,0	590
900.2367	125,0	32,0	200,0 - 300,0	810

Chain spinning head with a smooth chain

- Can be used in blocked and encrusted pipes
- Flexible design suitable for tight bends
- Optimum setting to pipe diameter due to centrifugal force
- Pipe protecting removal of impurities
- For cleaning of stoneware and plastic pipes
- Special tool steel



	Ø mm		For spiral mm	Operation range mm	L mm	g
900.2183	30,0	3 chains	16,0	50,0 - 125,0	160,0	210
900.2185	30,0	2 chains	16,0	50,0 - 125,0	160,0	170
900.2187	30,0	4 chains	16,0	50,0 - 125,0	160,0	240
900.2283	45,0	2 chains	22,0	60,0 - 125,0	160,0	440
900.2284	45,0	3 chains	22,0	60,0 - 125,0	160,0	530
900.2289	45,0	4 chains	22,0	60,0 - 125,0	160,0	630
900.2382	50,0	2 chains	32,0	70,0 - 130,0	210,0	970
900.2383	50,0	4 chains	32,0	70,0 - 130,0	210,0	1200

Chain spinning head with a spiked chain

- Can be used in blocked and encrusted pipes
- For intensive cleaning of concrete pipe and cast iron pipes
- Flexible design suitable for tight bends
- Optimum setting to pipe diameter due to centrifugal force
- Pipe protecting removal of impurities
- Thorough cleaning reduces the possibilty of new blockages
- Special tool steel

	Ø mm		For spiral mm	Operation range mm	L mm	g
900.2184	30,0	3 chains	16,0	50,0 - 125,0	160,0	230
900.2186	30,0	2 chains	16,0	50,0 - 125,0	160,0	210
900.2188	30,0	4 chains	16,0	50,0 - 125,0	160,0	270
900.2278	45,0	2 chains	22,0	60,0 - 125,0	160,0	490
900.2288	45,0	3 chains	22,0	60,0 - 125,0	160,0	630
900.2299	45,0	4 chains	22,0	60,0 - 125,0	160,0	670
900.2347	50,0	2 chains	32,0	70,0 - 130,0	210,0	1070
900.2348	50,0	4 chains	32,0	70,0 - 130,0	210,0	1440

Straight head

- Standard tool for exploring the type of blockage
- For use in textiles or cellulose blockages
- To take samples to determine appropriate follow up tool
- Special tool steel

	Ø mm	For spiral mm	Operation range mm	Length mm	g
900.2161	16,0	16,0	25,0 - 75,0	110	60
900.2221	22,0	22,0	50,0 - 100,0	180	170
900.2321	32,0	32,0	75,0 - 250,0	190	350

Funnel shaped head

- For specific use in textiles or cellulose blockages
- Wide coverage by funnel shaped
- Can also be used to retrieve from spirals remaining in the pipe
- Special tool steel

	Ø mm	For spiral mm	Operation range mm	Length mm	g
900.2165	32,0	16,0	65,0 - 100,0	110	80
900.2222	55,0	22,0	75,0 - 150,0	180	280
900.2322	60,0	32,0	125,0 - 250,0	190	500

Leg drills

- For specific use on light textile or cellulose blockages
- Ideal for close and several consecutive elbows
- Special tool steel

	Ø mm	For spiral mm	Operation range mm	Length mm	g
900.2163	28,0	16,0	38,0 - 75,0	110	70
900.2263	40,0	22,0	75,0 - 100,0	180	220
900.2363	50,0	32,0	75,0 - 250,0	190	490

Double leg drills

- Suitable for difficult to access trunking systems
- Double leg facilitate the penetration into narrow pipe bend
- Special tool steel

	Ø mm	For spiral mm	Operation range mm	Length mm	g
900.2158	35,0	16,0	38,0 - 75,0	130	90

Jointed bolbous head

- Ideal for narrow pipe with a small pipe diameters
- Flexible due to joint
- Special tool steel

	Ø mm	For spiral mm	Operation range mm	Length mm	g
900.2159	24,0	16,0	38,0 - 75,0	83	60

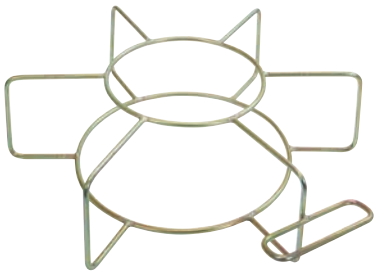
Spring recovery head

- Not suitable for drilling
- To retrieve from spirals remaining in the pipe
- With flared tentacle to grasp spiral
- Special tool steel

	Ø mm	For spiral mm	Operation range mm	Length mm	g
900.2162	35,0	16,0	25,0 - 75,0	50	40
900.2203	45,0	22,0	50,0 - 100,0	90	110
900.2325	65,0	32,0	75,0 - 250,0	100	240

Spiral basket

- For the safe storage and easy transport
- Ideal for cleaning and maintenance of the spirals
- Special tool steel



	Ø mm	For spiral mm	H mm	No. spirals	Max. spiral length m	kg
900.2110	450,0	16,0	140,0	15	34,5	1,25
900.2112	470,0	22,0	170,0	5	22,5	1,60
900.2113	520,0	22,0 / 32,0	190,0	5 / 4	22,5 / 18,0	2,30

Guiding glove

- Strong robustness
- Optimum protection during use of the spiral
- With inner glove and a long cuff
- Riveting stocking on the palm side and partly on the back
- Made from high quality leather

	Form	g
900.2121	left	210
900.2120	right	210

Spiral safety separation key

- For safety whilst uncoupling the spiral
- Injuries are avoided with this safety key rather than using pins

	For spiral mm	Ø mm	L mm	g	
900.2100	16,0	4,0	100,0	20	
900.2101	22,0 / 32,0	5,0	105,0	20	

Replacement spirals for pipe cleaning device

- For pipe cleaning device 6, 8 + 10
- Especially suitable for light blockage by textiles and cellulose materials
- With integrated bolbous head
- Special tool steel

	Ø mm	Length m	kg	
900.2415	8,0	4,50	1,05	
900.2416	8,0	7,50	1,80	
900.2417	8,0	9,50	1,60	
900.2422	10,0	9,50	3,50	
900.2522	6,0	4,50	0,90	
900.2523	6,0	6,00	1,20	

Replacement spiral with steel inner core for pipe cleaners

- For pipe cleaning device 8 + 10
- Very stable for the most severe pollution
- With integrated steel inner tube
- Particularly suitable for devices with automatic feed
- Special tool steel

	Ø mm	Length m	kg	
900.9975	8,0	7,50	2,25	
900.9978	8,0	10,00	2,90	

CHIMNEY SWEEP TOOLS

Boiler cleaning tool kit

- Ideal for regular cleaning of small to medium fireplaces
- Optional extentions
- Includes 5 durable extension rods
- Polypropylene rods
- Hard plastic brush

			kg	
900.6000	8 pcs	Boiler cleaning tool kit	2,95	

consists of:

		g	
900.6016	Screw extensions for boiler cleaning tool, Ø20mm,L=1,5m	458	
900.6231	Synthetic cleaning brush, round, Ø 200mm	210	
900.6030	Pulling spring for boiler cleaning tool kit	112	

Hand crank for screw extensions

- With a patented screw cap
- Special tool steel

	Ø mm	L mm	Colour code	g	
900.6025	12,0	175,0	●	275	

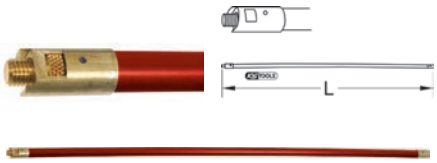
Screw extensions for boiler cleaning tool

- Adaptor M12 threaded
- Polypropylene

	Ø mm	Length m	Colour code	g	
900.6010	18,0	1,00	●	247	
900.6011	18,0	1,50	●	337	
900.6012	18,0	2,00	●	386	
900.6015	20,0	1,00	●	334	
900.6016	20,0	1,50	●	458	
900.6017	20,0	2,00	●	578	

Screw extensions for chimney sweep tools

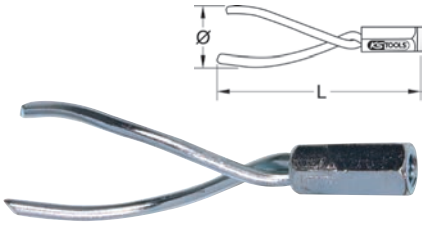
- Adaptor M12 threaded
- With a patented screw cap
- Polypropylene



	Ø mm	Length m	Colour code	g	
900.6020	18,0	1,00	●	225	
900.6021	18,0	1,50	●	345	
900.6022	18,0	2,00	●	395	

Fork screw

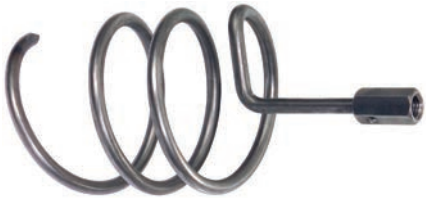
- With internal thread M12
- Special tool steel



	Ø mm	L mm	g	
900.6035	40,0	130,0	97	

Worm screw

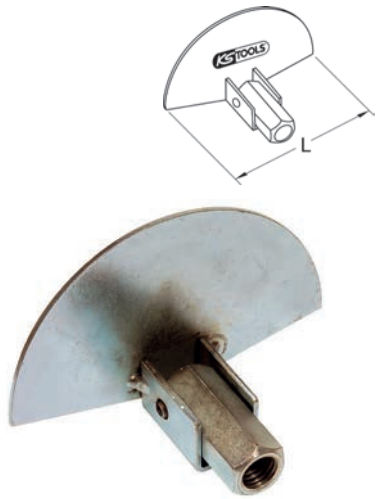
- With internal thread M12
- Special tool steel



	Ø mm	L mm	g	
900.6036	100,0	240,0	430	

Crescent scraper

- With internal thread M12
- Special tool steel



	Ø mm	L mm	g
900.6040	100,0	100,0	130

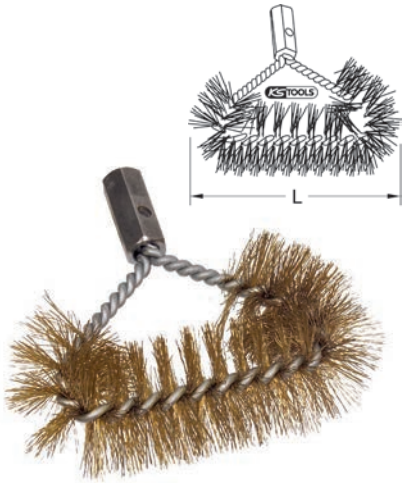
Cast iron ball

- With cast steel hooks
- 3 kg
- Special tool steel

	Ø mm	L mm	kg
900.6050	80,0	140,0	3,00

Bottle cleaning brush

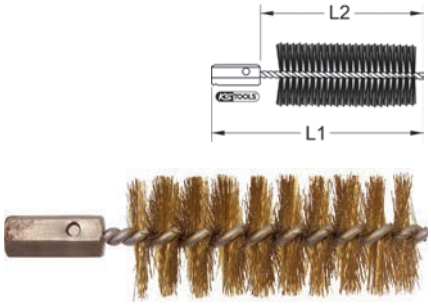
- With internal thread M12
- Special tool steel



	Ø mm	L mm	g
900.6055	50,0	50,0	154

Boiler brush

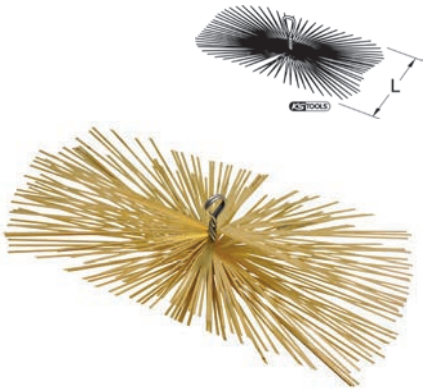
- With internal thread M12
- Special tool steel



	Ø mm	L1 mm	L2 mm	g
900.6060	50,0	200,0	120,0	141
900.6061	60,0	200,0	120,0	152
900.6062	70,0	200,0	120,0	165
900.6063	80,0	200,0	120,0	173

Steel cleaning brush

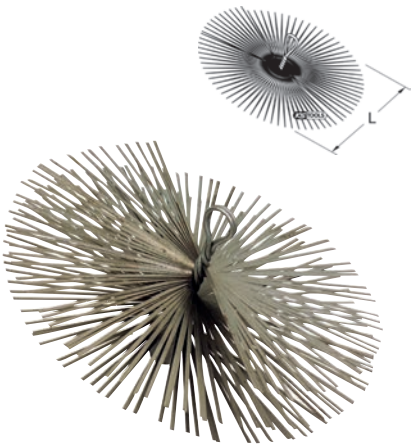
- Rectangular
- With internal thread M12
- Special tool steel



	Ø mm	L mm	g
900.6222	200,0 x 400,0	130,0	498

Steel cleaning brush

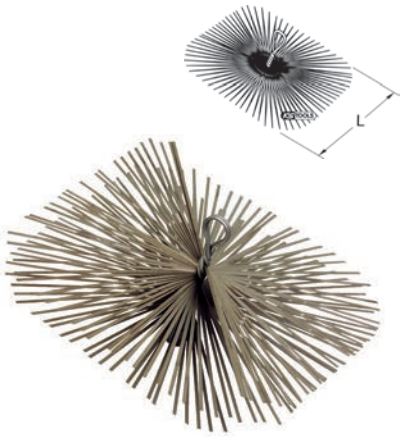
- Round
- With internal thread M12
- Special tool steel



	Ø mm	L mm	g
900.6205	200,0	130,0	257
900.6206	250,0	130,0	290

Steel cleaning brush

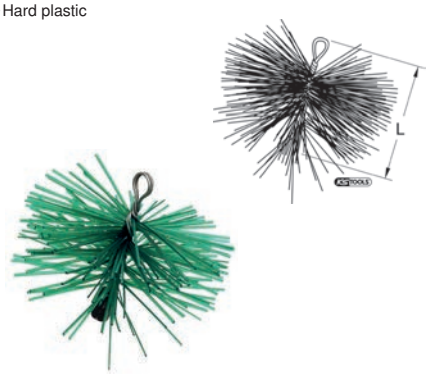
- Square
- With internal thread M12
- Special tool steel



	Ø mm	L mm	g
900.6210	200,0 x 200,0	130,0	279
900.6211	250,0 x 250,0	130,0	412
900.6212	300,0 x 300,0	130,0	475

Synthetic cleaning brush

- Round
- With internal thread M12
- Hard plastic



	Ø mm	L mm	g
900.6230	150,0	130,0	192
900.6231	200,0	130,0	210
900.6232	250,0	130,0	240
900.6233	300,0	130,0	252


KS TOOLS
Innovation is
our mission!

PIPE PULL-IN PLIERS

Pipe pull-in pliers, straight

- Perfect for connecting metal pipes with the same diameter, such as waste, ventilation, extraction, smoke and discharge pipes
- The ends of the pipes are narrowed during the process
- Guarantees fast, exact, simple and precise connection
- Embossing punch for all round and square pipes
- Tapered to 41.3 mm with a single press
- With five cutters = three bottom and two top cutters
- Extremely robust and reliable
- Self-opening with a clamping facility
- Optimum transmission ratio
- With hanging hole
- Two component handle
- Plier body made of steel

	Length mm	g	
123.0050	265,0	480	

Pipe pull-in pliers, angled

- Perfect for connecting metal pipes with the same diameter, such as waste, ventilation, extraction, smoke and discharge pipes
- The ends of the pipes are narrowed during the process
- Guarantees fast, exact, simple and precise connection
- Embossing punch for all round and square pipes
- Optimised utilisation through angled head
- Tapered to 41.3 mm with a single press
- With five cutters = three bottom and two top cutters
- Extremely robust and reliable
- Self-opening with a clamping facility
- Optimum transmission ratio
- With hanging hole
- Two component handle
- Plier body made of steel

	Length mm	g	
123.0051	225,0	440	

SCRAPERS

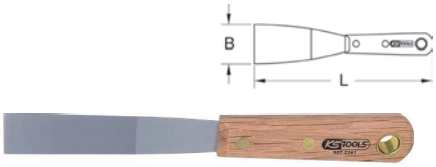
Stainless steel spatula with short handle

- Two component handle
- Ground
- Polished
- With hanging hole
- Extremely long service life
- Rust-proof
- Stainless steel

	Length mm	Width mm	g	
144.0631	50,0	100,0	20	
144.0632	75,0	113,0	30	
144.0633	100,0	116,0	50	
144.0634	150,0	120,0	85	

Stainless steel scraper

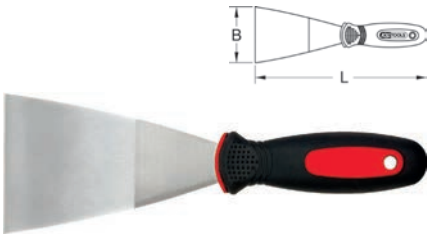
- With wooden handle
- Ground
- Polished
- With hanging hole
- Suitable for use at extremely low temperatures
- Extreme resistance to intergranular corrosion and oxidation
- Extremely long service life
- Autoclavable (heating of the tools to over 100 °C to kill germs)
- Rust-proof and acid resistant
- Stainless steel



	L mm	B mm	g	
907.2261	225,0	25,0	70	
907.2262	225,0	38,0	70	
907.2263	225,0	50,0	70	
907.2264	225,0	63,0	70	
907.2265	225,0	75,0	80	

Stainless steel scraper

- Two component handle
- Ground
- Polished
- With hanging hole
- Stainless steel



	L mm	B mm	g	
144.0622	225,0	30,0	72	
144.0624	225,0	40,0	73	
144.0625	225,0	50,0	75	
144.0626	225,0	60,0	84	
144.0628	225,0	80,0	85	

TROWELS

Plastering trowel

- Round
- With wooden handle
- Ground
- Spot welded
- Hardened
- Steel

	L mm	B mm	g	
144.0110	140,0	83,0	130	
144.0111	160,0	115,0	260	
144.0112	180,0	116,0	270	
144.0113	200,0	118,0	310	
144.0114	220,0	125,0	310	
144.0115	240,0	133,0	330	

Plastering trowel

- Square edged
- With wooden handle
- Ground
- Spot welded
- Hardened
- Steel

	L mm	B mm	g	
144.0122	180,0	115,0	310	
144.0123	200,0	115,0	310	
144.0124	220,0	125,0	310	
144.0125	240,0	130,0	310	

Gauging trowel

- Round
- With wooden handle
- Ground
- Spot welded
- Hardened
- Steel

	L mm	B mm	g	
144.0133	160,0	52,0	310	

Plastering trowel

- Edge
- With wooden handle
- Ground
- Spot welded
- Hardened
- Steel

	L mm	B mm	g	
144.0135	160,0	80,0	310	

Plastering trowel

- Round
- Two component handle
- Ground
- Spot welded
- With hanging hole
- Hardened
- Steel

	L mm	B mm	g
144.0210	140,0	83,0	150
144.0211	160,0	103,0	220
144.0212	180,0	110,0	270
144.0213	200,0	120,0	310
144.0214	220,0	125,0	310
144.0215	240,0	133,0	310

Plastering trowel

- Square edged
- Two component handle
- Ground
- Spot welded
- With hanging hole
- Hardened
- Steel

	L mm	B mm	g
144.0222	180,0	116,0	270
144.0223	200,0	120,0	310
144.0224	220,0	125,0	310
144.0225	240,0	130,0	310

Stainless steel plastering trowel

- Round
- Two component handle
- Polished
- Spot welded
- With hanging hole
- Stainless steel

	L mm	B mm	g
144.0313	200,0	125,0	310

Stainless steel plastering trowel

- Square edged
- Two component handle
- Polished
- Spot welded
- With hanging hole
- Stainless steel

	L mm	B mm	g
144.0323	200,0	127,0	270

Stainless steel gauging trowel

- Round
- Two component handle
- Polished
- Spot welded
- With hanging hole
- Stainless steel

	L mm	B mm	g
144.0333	160,0	54,0	130

Gauging trowel

- Round
- Two component handle
- Ground
- Spot welded
- With hanging hole
- Hardened
- Steel

	L mm	B mm	g
144.0232	140,0	49,0	130
144.0233	160,0	54,0	130

Plastering trowel

- Edge
- Two component handle
- Ground
- Spot welded
- With hanging hole
- Hardened
- Steel

	L mm	B mm	g
144.0235	160,0	80,0	130

Jointing trowel

- Two component handle
- Ground
- Spot welded
- With hanging hole
- Hardened
- Steel

	B mm	L mm	g
144.0238	12,0	175,0	130

Stainless steel internal corner trowel

- Flexible stainless steel blade
- 130° to 90°
- Flexible
- Two component handle
- Polished
- Spot welded
- With hanging hole
- Stainless steel

	L1 mm	L2 mm	g
144.0240	100,0	125,0	310

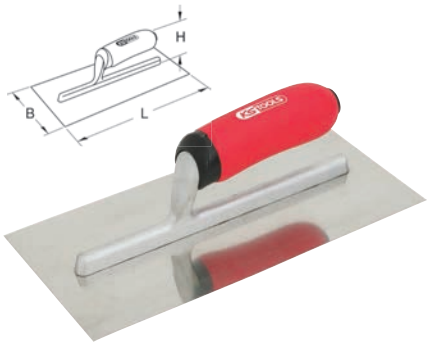
Stainless flooring trowel

- Two component handle
- Ground
- Polished
- Riveted and welded
- Stainless steel

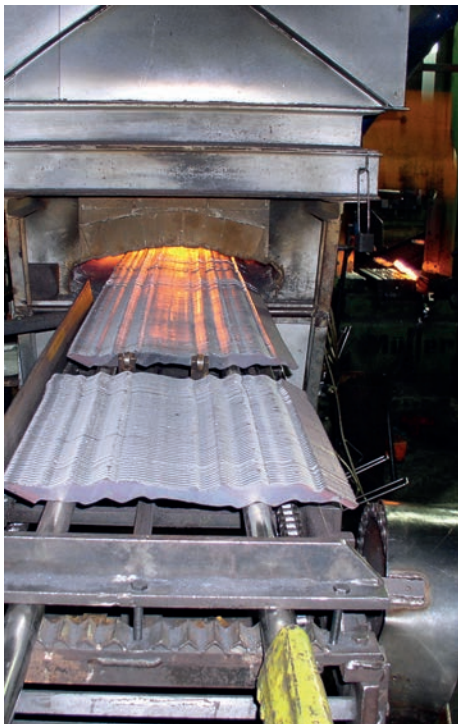
	L mm	B mm	H mm	g
144.0461	455,0	110,0	90,0	420

Stainless steel plastering trowel

- Two component handle
- Ground
- Polished
- Riveted and welded
- Stainless steel



	L mm	B mm	H mm	g
144.0458	280,0	130,0	90,0	310



Plastering trowel

- Square serrations
- With wooden handle
- Ground
- Hardened
- Riveted and welded
- Steel

	Toothing mm	L mm	B mm	H mm	g
144.0350	6x6	280,0	130,0	90,0	290
144.0351	10x10	280,0	130,0	90,0	310

FLOATS

Sponge rubber float

- With soft grip handle
- High quality red sponge rubber surface
- Aluminium mounting plate

	L mm	B mm	H mm	D mm	g
144.0505	240,0	100,0	80,0	19,0	360

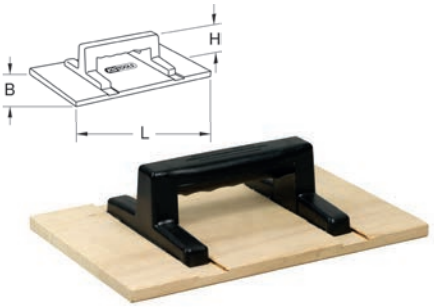
Rubber float with additional high quality rubber surface

- With soft grip handle
- High quality sponge rubber surface
- Protected by an additional protective rubber plate
- Aluminium mounting plate

	L mm	B mm	H mm	D mm	g
144.0507	300,0	100,0	80,0	19,0	420

Wooden float

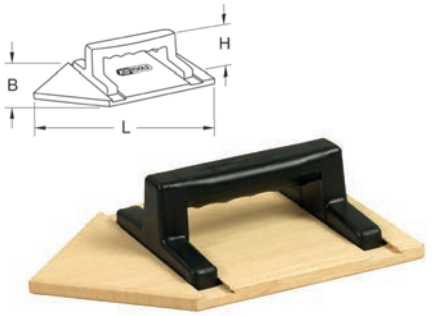
- Rectangular
- Cellular area
- With plastic handle
- Wood



	L mm	B mm	H mm	g
144.0580	270,0	180,0	70,0	310
144.0581	330,0	260,0	75,0	660
144.0582	400,0	280,0	70,0	760

Wooden float

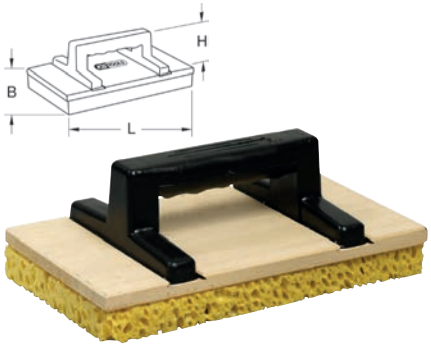
- Edge
- Cellular area
- With plastic handle
- Wood



	L mm	B mm	H mm	g
144.0583	270,0	180,0	70,0	245

Wooden float

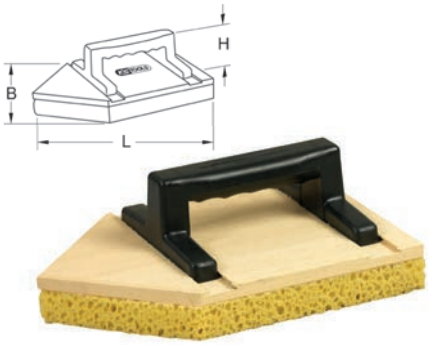
- Rectangular
- Cellular area
- With foam rubber sponge
- With plastic handle
- Wood



	L mm	B mm	H mm	g
144.0592	250,0	140,0	100,0	265
144.0593	330,0	180,0	100,0	370

Wooden float

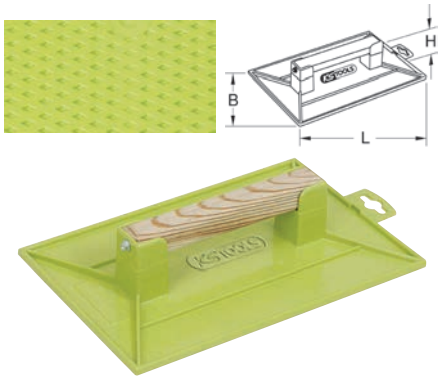
- Edge
- Cellular area
- With foam rubber sponge
- With plastic handle
- Wood



	L mm	B mm	H mm	
144.0591	240,0	140,0	100,0	220
144.0590	270,0	180,0	100,0	290

ABS float

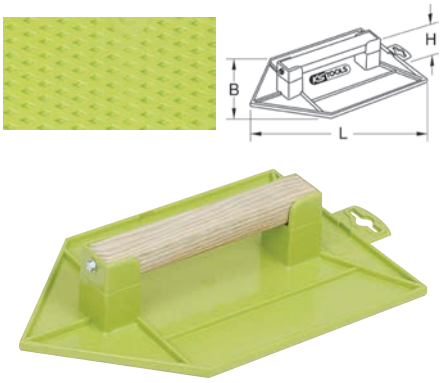
- Rectangular
- Cellular area
- Very good durability
- With wooden handle
- Green ABS mounting plate



	L mm	B mm	H mm	
144.0546	200,0	120,0	60,0	190
144.0545	350,0	270,0	65,0	560
144.0540	420,0	260,0	70,0	590

ABS float

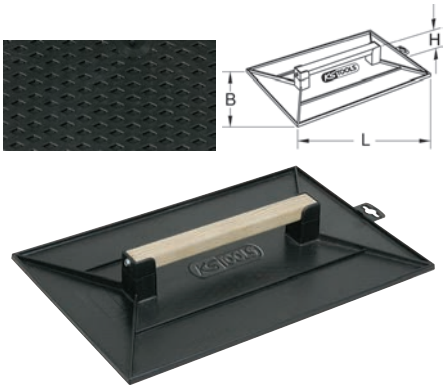
- Edge
- Cellular area
- With wooden handle
- Very good durability
- Green ABS mounting plate



	L mm	B mm	H mm	
144.0552	200,0	130,0	50,0	150
144.0550	270,0	180,0	60,0	280

Float

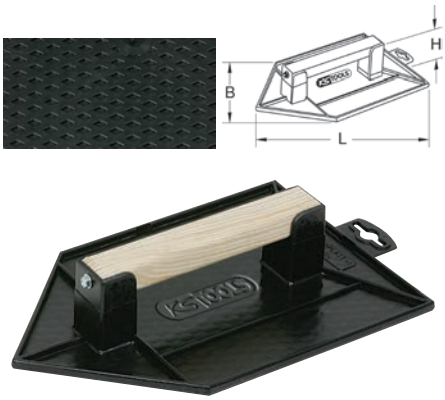
- Rectangular
- Cellular area
- With wooden handle
- Plate made from impact proof PS plastic



	L mm	B mm	H mm	
144.0526	200,0	120,0	65,0	290
144.0521	270,0	180,0	65,0	175
144.0525	350,0	270,0	70,0	510
144.0520	420,0	260,0	70,0	530

Float

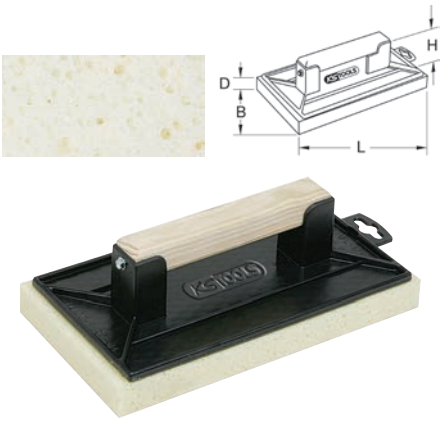
- Edge
- Cellular area
- With wooden handle
- Plate made from impact proof PS plastic



	L mm	B mm	H mm	
144.0531	140,0	80,0	40,0	70
144.0532	200,0	130,0	55,0	140
144.0530	270,0	180,0	60,0	360

Sponge rubber float

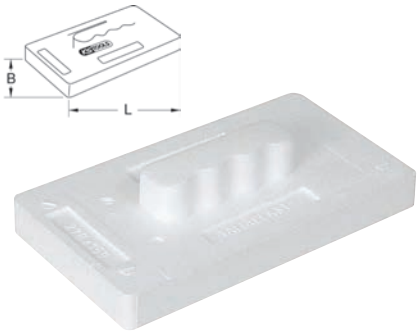
- Sponge rubber surface
- With wooden handle
- Plate made from impact proof PS plastic



	L mm	B mm	H mm	D mm	
144.0510	210,0	130,0	90,0	30,0	160
144.0511	270,0	180,0	90,0	30,0	275

Float

- Angularly
- Hard plastic

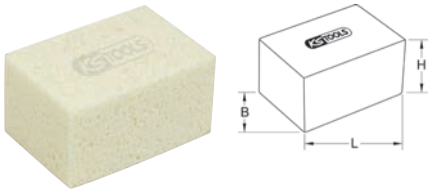


	L mm	B mm	
144.0512	270,0	150,0	40

JOINTING

Jointing sponge

- Sponge rubber



	B mm	H mm	L mm	
144.0514	100,0	80,0	150,0	60

Jointing rubber

- Out of one piece
- Plastic

	H mm	L mm	
144.0570	90,0	135,0	65

Fugi-Maxi silicone scraper set

- For building sealants and expansion joints with silicone, acrylic, polyurethane etc.
- Optimum working result without tedious masking
- Through working without a release agent optimum durability and adhesion of the joints
- Plastic
- In durable plastic case

116.1010	3 pcs	Fugi-Maxi silicone scraper set	100

Fugi-Maxi silicone scraper set

- For building sealants and expansion joints with silicone, acrylic, polyurethane etc.
- Optimum working result without tedious masking
- Through working without a release agent optimum durability and adhesion of the joints
- Tip slides allow easy traverse ready produced seams
- Plastic
- In durable plastic case

116.1020	7 pcs	Fugi-Maxi silicone scraper set	150

FUGENFIX silicone scraper and wiper set

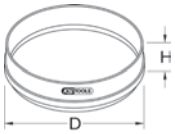
- For building sealants and expansion joints with silicone, acrylic, polyurethane etc.
- Optimum working result without tedious masking
- With 5 different radius adapters
- For dressing silicone
- Through working without a release agent optimum durability and adhesion of the joints
- Plastic

116.1050	7 pcs	FUGENFIX silicone scraper and wiper set	115

SAND SIEVE

Sand sieve

- Round
- Ground out of iron wire

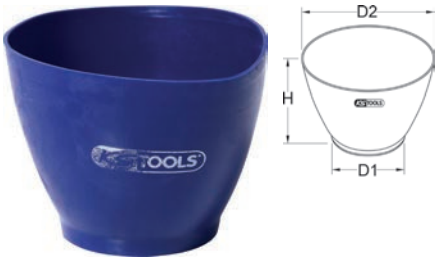


	Material	Mesh dimensions mm	D mm	H mm	g
144.0564	wood	1,90	420,0	100,0	890
144.0563	wood	2,30	420,0	100,0	900
144.0565	wood	2,80	420,0	100,0	940
144.0566	wood	3,93	420,0	100,0	910

CONTAINERS

Plaster bowl

- Conical arched form
- Extremely flexible
- Solid rubber



	l	D1 mm	D2 mm	H mm	g
999.2034	0,65	70,0	125,0	88,0	60

Plastic bucket

- Black
- Resistant to cold
- Environmentally friendly
- With steel handle Ø 5.3mm
- Plastic

	l	D1 mm	D2 mm	H mm	g
140.0036	11	220,0	300,0	240,0	520

Plastic bucket

- Black
- With scale marking
- Resistant to cold
- Environmentally friendly
- With steel handle Ø 6.3 mm
- With reinforced handle eyelets
- Plastic

	l	D1 mm	D2 mm	H mm	g
140.0035	11	220,0	300,0	240,0	520

Plastic bucket

- Black
- With scale marking
- Flexible
- Resistant to cold
- Environmentally friendly
- With steel handle Ø 6.3 mm
- Soft plastic

	l	D1 mm	D2 mm	H mm	g
140.0037	11	220,0	300,0	240,0	640

Solid rubber bucket

- Black
- Extremely flexible
- Resistant to cold
- With steel handle Ø 6.3 mm
- Solid rubber

	l	D1 mm	D2 mm	H mm	kg
140.0038	12	205,0	300,0	265,0	1,76

Mixing tray

- Black
- Resistant to cold
- Environmentally friendly

	Material	l	B mm	H mm	L mm	g
140.0040	plastic	3	210,0	70,0	310,0	135
140.0041	plastic	13	320,0	150,0	460,0	600
140.0042	plastic	25	400,0	160,0	600,0	970
140.0043	rubber	13	320,0	150,0	460,0	640
140.0044	rubber	25	400,0	160,0	600,0	1370
140.0045	solid rubber	40	500,0	195,0	685,0	7170

PLUMB LINE

Marking cord

- Ideal for marking - to use also as a plumb line
- 25 m chalk line
- With cranked handle
- Includes 150 g marking chalk
- Sturdy plastic housing

300.0080	300.0082	280

Bricklayers chalk line

- Red powder coating
- Special tool steel

	D mm	L mm	
300.0092	50,0	60,0	600
300.0094	55,0	65,0	800
300.0095	60,0	70,0	1000

SCREW CLAMPS

Cast iron screw clamp

- Ideally for steel and general construction
- With pivoting clamping head
- Highly stable
- Extremely robust spindle
- With wooden handle
- Steel profile rail
- Cast iron fixed and moveable heads
- Zinc coated

	Max span depth mm	Max span width mm	Clamping Capacity N	
145.0101	80,0	160,0	3300	0,73
145.0109	100,0	250,0	4000	1,40
145.0112	140,0	300,0	4000	1,60
145.0117	120,0	400,0	4500	1,76
145.0119	120,0	600,0	3600	2,12
145.0126	120,0	1000,0	4500	3,70
145.0132	120,0	1500,0	4500	4,89

Cast iron screw clamp

- Ideally for steel and general construction
- Double-T-profile rail with rear dovetailing
- With pivoting clamping head
- Highly stable
- Extremely robust spindle
- With wooden handle
- Steel profile rail
- Forged fixed and moveable heads
- Zinc coated

	Max span depth mm	Max span width mm	Clamping Capacity N	
145.0201	50,0	100,0	2200	0,18
145.0209	80,0	160,0	3000	0,50
145.0212	140,0	300,0	6700	1,70
145.0219	120,0	250,0	5500	1,23
145.0228	120,0	400,0	7500	1,91
145.0230	120,0	600,0	7500	2,33
145.0232	120,0	1000,0	10000	3,75

Steel screw clamp with T-handle

- Ideally for steel and general construction
- Double-T-profile rail with rear dovetailing
- With pivoting clamping head
- With sliding bar through locking handle
- Highly stable
- Extremely robust spindle
- Steel profile rail
- Forged fixed and moveable heads
- Zinc coated

	Max span depth mm	Max span width mm	Clamping Capacity N	
145.0301	80,0	160,0	3000	0,50
145.0311	120,0	250,0	5500	1,23
145.0312	120,0	300,0	6700	1,70
145.0320	120,0	400,0	7500	1,91
145.0322	120,0	600,0	7500	2,33
145.0324	120,0	1000,0	10000	3,75

Steel lever clamp with quick release

- Ideally for steel and general construction
- For safe and strong clamping via one-hand operation
- Double-T-profile rail with rear dovetailing
- Highly stable
- Extremely robust spindle
- Steel profile rail
- Forged fixed and moveable heads
- Zinc coated

	Max span depth mm	Max span width mm	Clamping Capacity N	
145.0402	80,0	160,0	3000	0,53
145.0412	120,0	250,0	4000	1,50
145.0415	140,0	300,0	5000	1,90
145.0418	120,0	400,0	5500	2,40
145.0420	120,0	600,0	5500	2,83
145.0421	120,0	800,0	6000	3,64
145.0422	120,0	1000,0	3000	4,20

U screw clamp

- Ideally for steel and general construction
- Double-T-profile rail with rear dovetailing
- With pivoting clamping head
- With sliding bar through locking handle
- Highly stable
- Extremely robust spindle
- Steel profile rail
- Forged fixed and moveable heads
- Zinc coated

	Max span depth mm	Max span width mm	Clamping Capacity N	
145.0430	140,0	300,0	3000	2,46
145.0431	140,0	300,0	3000	3,74
145.0432	175,0	300,0	3000	8,30

Power screw clamp

- Ideally for steel and general construction
- Double-T-profile rail with rear dovetailing
- With pivoting clamping head
- With sliding bar through locking handle
- Highly stable
- Extremely robust spindle
- Steel profile rail
- Forged fixed and moveable heads
- Zinc coated

	Max span depth mm	Max span width mm	Clamping Capacity N	
145.0435	175,0	300,0	2200	5,44
145.0436	175,0	500,0	2200	6,56
145.0437	175,0	1000,0	2200	9,34

PENCILS

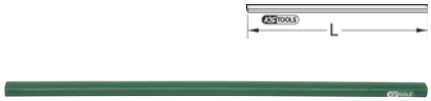
Carpenters pencil

- Flat oval form

	Colour code	Lead	L mm	
300.0070	●	HB	250,0	10

Mason pencil

- Flat oval form



	Colour code	Lead	L mm	
300.0071	●	H	250,0	10

Pencil

- For the marking of damp surfaces
- Flat oval form

	Colour code	Lead	L mm	g
300.0072	●	HB	250,0	10

SANDING BLOCK

Sanding block with sponge rubber backing

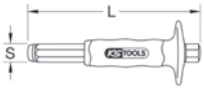
- Accepts emery and sandpaper etc
- Moulded handle ensures a comfortable grip
- Ideally suited to working on level surfaces
- Clamping clips made from stainless steel
- Special plastic

	L mm	B mm	g
515.3095	210,0	105,0	330

FLATTENERS

Tapware assembly and dismantling set

- 8-point
- Quenched and tempered
- Special tool steel

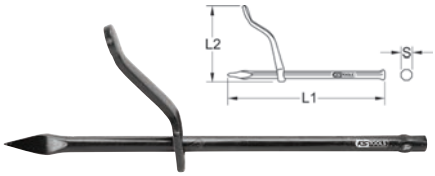


	L mm	S mm	g
156.0770	170,0	16,0	510

CONCRETE HOOKS

Plasterers hook

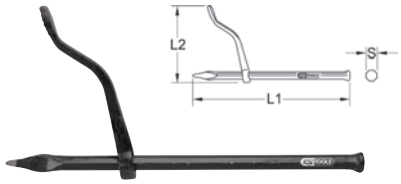
- Round
- For clamping of floorboards
- Quenched and tempered
- Black lacquer
- Special tool steel



	L1 mm	L2 mm	S mm	Handle number	g
156.0560	250,0	125,0	10,0	-	250
156.0561	300,0	130,0	10,0	-	270

Plasterers hook

- 8-point
- For clamping of floorboards
- Quenched and tempered
- Black lacquer
- Special tool steel



	L1 mm	L2 mm	S mm	Handle number	g
156.0562	250,0	125,0	10,0	-	270
156.0563	300,0	125,0	10,0	-	300

Plasterers hook

- 4 point
- For clamping of floorboards
- Quenched and tempered
- Red lacquer
- Special tool steel

	L1 mm	L2 mm	S mm	Handle number	g
156.0568	250,0	125,0	10,0	-	250
156.0569	300,0	125,0	10,0	-	270

CROW BAR & PRY BAR

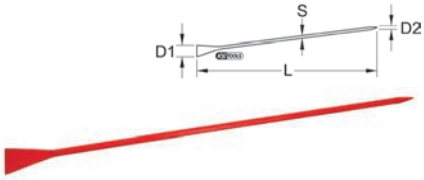
Paving crowbar, Hamburg model

- Round
- with cutting edge
- Quenched and tempered
- Forged
- Special tool steel

	A mm	L mm	kg
156.0577	30,0	1250,0	7,00
156.0578	30,0	1500,0	8,50

Crow bar

- 8-point
- Quenched and tempered
- Red lacquer
- Special tool steel



	D1 mm	D2 mm	Length m	S mm	Handle number	kg
156.0575	105,0	25,0	1,60	25,0	-	6,21
156.0576	105,0	25,0	1,80	25,0	-	7,94

Pry bar

- Best suited for and breakdown and installation work
- For pressure testing securely-fitted parts
- Ergonomic single component handle
- Hardened through the whole length
- Chrome molybdenum

	D mm	L1 mm	L2 mm	g
911.8101	11,0	200,0	115,0	130
911.8102	15,0	300,0	185,0	220
911.8103	18,0	450,0	320,0	420
911.8104	18,0	600,0	470,0	560

Pry bar sets

- Best suited for and breakdown and installation work
- For pressure testing securely-fitted parts
- Ergonomic single component handle
- Hardened through the whole length
- Chrome molybdenum

			kg
911.8100	4 pcs	11 x 115 mm - 15 x 185 mm - 18 x 320 mm - 18 x 470 mm	1,33

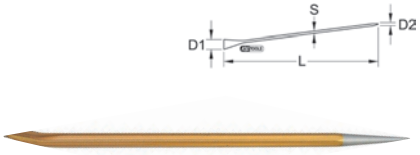
Lever bar

- 4 point
- Quenched and tempered
- Black lacquer
- Special tool steel

	D1 mm	D2 mm	Length m	S mm	Handle number	kg
156.0598	22,0	35,0	1,80	37,0	-	8,00

Bending iron/pry bar

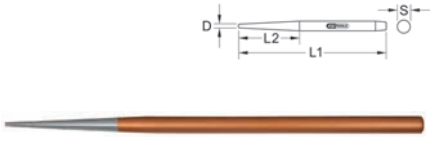
- Round
- Quenched and tempered
- Forged
- Special tool steel



	D1 mm	D2 mm	L mm	S mm	kg
129.2219	22,0	5,0	605,0	19,0	1,30

Pry bar

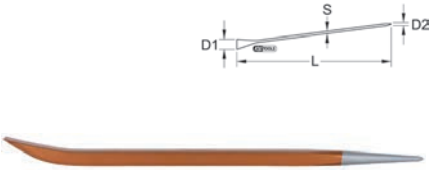
- Round
- Quenched and tempered
- Forged
- Cone polished
- Special tool steel



	D mm	L1 mm	L2 mm	S mm	g
129.2220	5,5	500,0	170,0	20,0	970

Bending iron/pry bar

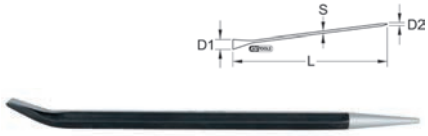
- 4 point
- Quenched and tempered
- Forged
- Cone polished
- Special tool steel



	D1 mm	D2 mm	L mm	S mm	g
129.2221	14,0	1,0	400,0	14,0	500

Bending iron/pry bar

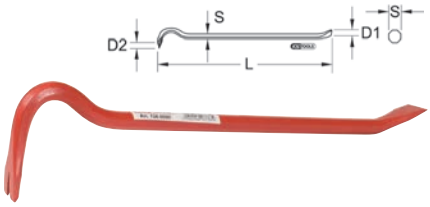
- 6 point
- Quenched and tempered
- Forged
- Cone polished
- Special tool steel



	D1 mm	D2 mm	L mm	S mm	g
129.2222	22,0	5,0	405,0	16,0	650

Crow bar

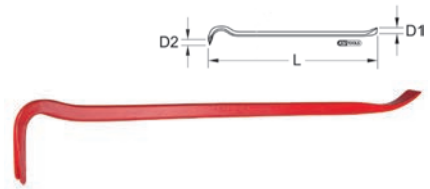
- 6 point
- Quenched and tempered
- Red lacquer
- Forged
- Special tool steel



	D1 mm	D2 mm	Length m	S mm	Handle number	kg
156.0590	30,0	37,0	0,45	19,0	-	1,16
156.0591	32,0	40,0	0,60	19,0	-	1,30
156.0592	37,0	40,0	0,70	19,0	-	1,56
156.0593	38,0	45,0	0,80	19,0	-	1,95
156.0594	38,0	45,0	1,00	19,0	-	3,27

Special crow bar

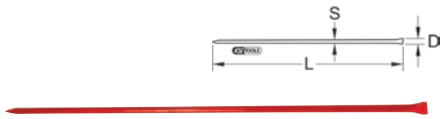
- sides
- Quenched and tempered
- Red lacquer
- Forged
- Special tool steel



	D1 mm	D2 mm	L mm	kg
129.2223	35,0	37,0	500,0	1,35
129.2224	35,0	37,0	600,0	1,80
129.2225	35,0	37,0	800,0	2,30

Crow bar

- 8-point
- Quenched and tempered
- Red lacquer
- Special tool steel



	D mm	Length m	S mm	Handle number	kg
156.0595	50,0	1,50	25,0	-	4,84
156.0596	50,0	1,80	25,0	-	5,89
156.0597	50,0	1,25	25,0	-	7,07

Pry bar

- Angular lever end guarantees non slip surface
- Ideally suited for and breakdown and installation work
- Go through blade and hammer cap
- Suitable for the testing of defective bearings
- Two component handle
- Special tool steel
- In durable plastic storage case

	Bend radius	Length mm	kg
911.8411	0°	900,0	1,70
911.8412	45°	900,0	1,75
911.8413	75°	600,0	1,17
911.8414	90°	600,0	1,20

Pry bar

- Angular lever end guarantees non slip surface
- Ideally suited for and breakdown and installation work
- Go through blade and hammer cap
- Suitable for the testing of defective bearings
- Two component handle
- Special tool steel
- In durable plastic storage case

	Bend radius	Length mm	kg
911.8415	45°	1150,0	4,75

Pry bar sets

- Angular lever end guarantees non slip surface
- Ideally suited for and breakdown and installation work
- Go through blade and hammer cap
- Suitable for the testing of defective bearings
- Two component handle
- Special tool steel
- In durable plastic storage case

			kg
911.8410	4 pcs	0°x900 - 45°x900 - 75°x600 - 90°x600 mm	8,70

Flexible roll head pry bar

- Extremely versitile and robust execution
- Varible adjustable roll head
- Maximum power transmission in the narrowest area
- Optimal leverage in minimal work area
- Special tool steel

	Length mm	Assembly levels	g
911.8176	250,0	5	385
911.8177	300,0	5	455
911.8178	400,0	5	565

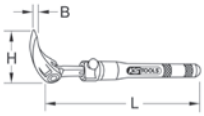
Flexible roll head pry bar set

- Extremely versitile and robust execution
- Varible adjustable roll head
- Maximum power transmission in the narrowest area
- Optimal leverage in minimal work area
- Special tool steel

			kg
911.8175	3 pcs	250 - 300 - 400 mm	1,50

Telescopic flexible roll head pry bar

- Lever extension with push-button in steps
- Roller head adjustable in steps
- Extra narrow, with recessed push button
- Maximum power transmission in the narrowest area
- Optimal leverage in minimal work area
- Special tool steel



	L mm	H mm	B mm	g
911.8186	325-460	90,0	12,0	780
911.8187	600-915	120,0	20,0	1900
911.8188	865-1350	145,0	24,0	4260

Telescopic flexible roll head pry bar set

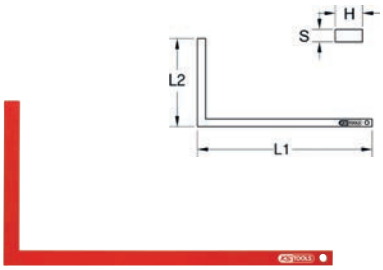
- Lever extension with push-button in steps
- Roller head adjustable in steps
- Extra narrow, with recessed push button
- Maximum power transmission in the narrowest area
- Optimal leverage in minimal work area
- Special tool steel

			kg
911.8185	3 pcs	325-460 - 600-915 - 865-1350 mm	6,94

CARPENTERS SQUARE

Carpenters square

- With hanging hole
- Without head stock
- Red powder coating
- Quenched and tempered
- Special tool steel



	L1 mm	L2 mm	H mm	S mm	kg
300.0250	500,0	260,0	35,0	5,0	0,84
300.0251	600,0	280,0	35,0	5,0	1,07
300.0252	800,0	320,0	35,0	5,0	1,37
300.0253	1000,0	380,0	35,0	5,0	1,70

SHOVEL & BROOM

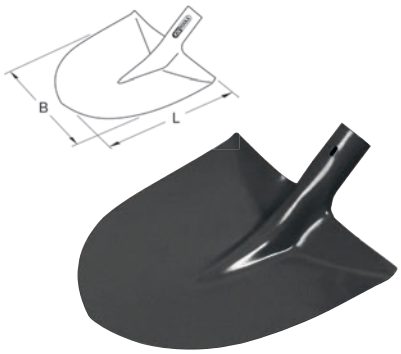
Shovel

- Round
- With gooseneck
- Supplied without handle
- Black lacquer
- Special tool steel

	L mm	B mm	Handle	kg
144.0801	270,0	270,0	144.0860	1,06
144.0802	290,0	290,0	144.0860	1,17
144.0803	310,0	310,0	144.0860	1,30

Shovel

- Alsatian style
- With high edges
- Supplied without handle
- Black lacquer
- Special tool steel



	L mm	B mm	Handle	kg
144.0811	280,0	280,0	144.0861	1,13

Shovel

- Square
- With gooseneck
- Supplied without handle
- Black lacquer
- Special tool steel

	L mm	B mm	Handle	kg
144.0806	250,0	250,0	144.0860	1,26

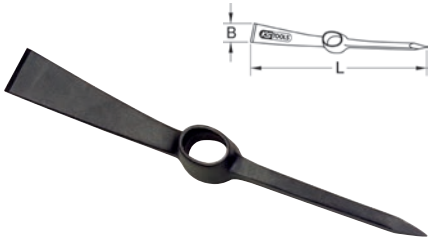
Pick axe

- Round
- Supplied without handle
- Black lacquer
- Special tool steel

	B mm	L mm	Handle	kg
144.0901	65,0	560,0	144.0960	2,50

Pick axe

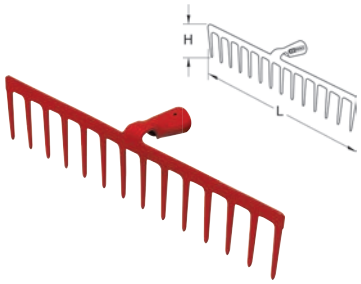
- Beveled
- Supplied without handle
- Black lacquer
- Special tool steel



	B mm	L mm	Handle	kg
144.0905	57,0	570,0	144.0961	2,50

Rake

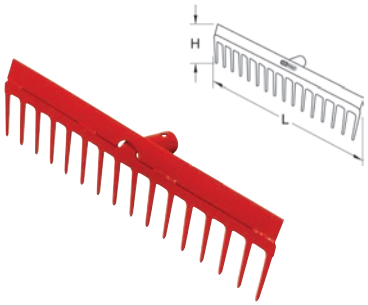
- Red lacquer
- Supplied without handle
- Special tool steel



	Tooth	H mm	L mm	Handle	g
144.0711	14	100,0	400,0	144.0781	715
144.0712	16	100,0	460,0	144.0781	800

Rake with scraper iron for concrete and bitumen

- Red lacquer
- Supplied without handle
- Special tool steel



	Tooth	H mm	L mm	Handle	kg
144.0715	16	120,0	460,0	144.0781	1,07

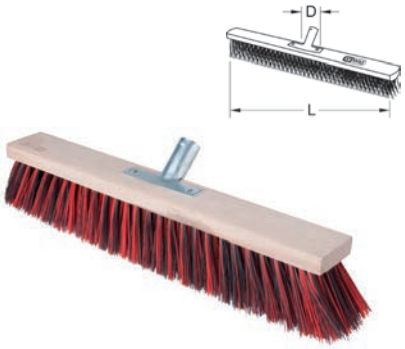
Shop floor broom

- With red plastic bristles
- Best suited for yard and street
- Also in for use in the wet and snow
- Supplied without wooden handle

	D mm	L mm	Handle	g
146.1030	22,0	300,0	146.0012	420
146.1040	22,0	400,0	146.0012	440
146.1050	22,0	500,0	146.0012	470
146.1060	22,0	600,0	146.0012	520

Shop floor broom

- With coco bristles
- Best suited for dry areas
- For inside and outside
- Supplied without wooden handle



	D mm	L mm	Handle	g
146.2080	24,0	290,0	146.0014	300
146.2030	24,0	300,0	146.0014	580
146.2040	24,0	400,0	146.0014	630
146.2050	24,0	500,0	146.0014	670
146.2070	24,0	1000,0	144.0781	1250

Handbrush

- With wooden handle
- Best suited for dry areas
- For inside and outside
- Coco bristles

	L1 mm	L2 mm	Handle	g
146.3005	285,0	150,0	-	145

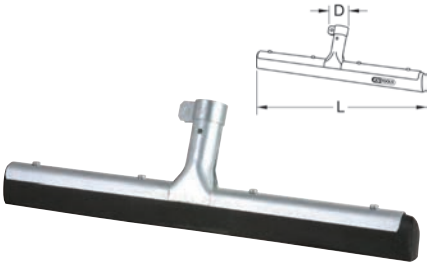
Dustpan

- White powder coating
- Material strength 1 mm
- Special tool steel

	L mm	B mm	Handle	g
146.3000	228	224,0	-	270

Floor squeegee

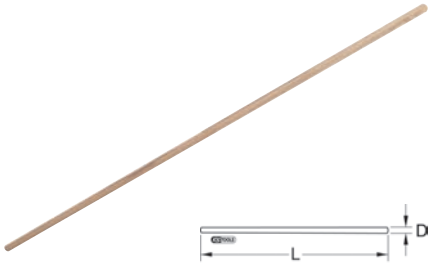
- With black foam rubber
- Zinc coated
- Supplied without wooden handle



	D mm	L mm	Handle	g
146.3033	25,0	330,0	146.0012	230
146.3043	24,0	450,0	146.0014	190
146.3055	24,0	550,0	146.0014	220
146.3075	24,0	750,0	146.0014	350

Wooden handle

- For shovels and brooms
- Wood



	D mm	L mm	Form	g
146.0012	22	1500,0	round	420
146.0014	24	1500,0	round	650
144.0781	28	1500,0	round	520
144.0860	40	1100,0	round	800
144.0861	40	1350,0	round	2200
144.0961	60/40	900,0	oval	750
144.0960	50	900,0	round	750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HEAD PROTECTION

Work protective hardhat

- DIN EN 397
- PP case
- 4-point suspension
- Buckle adjustment
- Lateral space for accessories
- Shock absorption (<5kn)
- Extremely flammable (>5 s)
- Temperature resistant (> -10 < 50)

	Colour code	L mm	B mm	H mm	
985.0021		265,0	225,0	160,0	330

Work protective hardhat

- DIN EN 397
- Special plastic

	Colour code	L mm	B mm	H mm	
117.1608		290,0	225,0	175,0	370
117.1609		290,0	225,0	175,0	370
117.1610		290,0	225,0	175,0	370

Carrying bag for work helmet

- Made out of red leather
- With carrying strap

	B mm	H mm	
117.1612	500,0	480,0	500

EYE PROTECTION

Visor

- DIN EN 166
- Frame made from aluminium
- Visor material: PC
- Suitable for standard safety helmets
- Frame made from aluminium
- Size adjustment takes place using spring strip

	Total depth mm	
985.0024	200,0	280

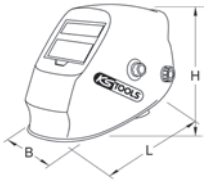
Electrician's face shield

- DIN EN 166
- Fault arc tested to DGUV GS-ET-29, test level W(LBP) = 318 kJ (corresponds to prospective test short-circuit current 7 kA/0.5 s) EN 166
- Personal eye protection equipment
- Also fault arc tested to ASTM F2178, ATPV: 7.0 cal/cm²
- Colour rendering index > 90%
- Colour rendering index > 90%
- Suitable for standard electrician's hardhat
- Suitable for standard electrician's hardhat
- Anti-mist protective gel supplied

	Arc fault		
117.1796	class 2	1000V	525

Welders protective helmet

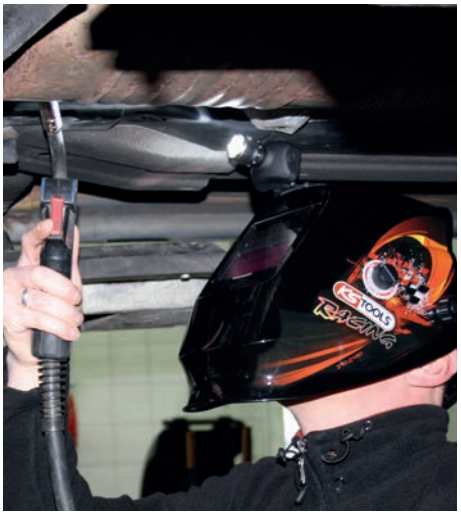
- Turns fully automatically from bright after dark as soon as the light arch is ignited
- Due to high quality solar cells battery replacement is no longer require
- Equiped with a sensitivityand delaying switch for switching between dark and light to prevent welders blindness when welding at high amp capacity
- Quick switching is possible when changing from seam to spot welding
- Selection switch for reaction time
- Robust multi positional head band
- Complete neck protection
- Face protection to EN 175 / eye protection to EN379 1/2/1



Technical data:

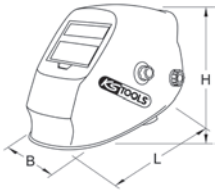
Switching timed:	1/25,000 s
	0.6 s delay
Window:	98 x 40 mm (3.7/8" x 1.5/8")
Cassette size:	110 x 90 x 9 mm (4.3/8" x 3.1/2" x 0,35")
Power requirement:	litium battery + solar cells
UV / IR protection:	according to EN169 / to DIN 16
Colour selection:	varible adjustment from DIN 9-13
	standard light adjustment DIN 3 (4)
Working temperature:	-5° to +55°C
Storage temperature:	-20° up tp +70°C

	L mm	B mm	H mm	
310.0180	330,0	200,0	200,0	830



Welders protective helmet with integrated headlamp

- Ideal for dark work areas where poor light conditions are given
- Turns fully automatically from bright after dark as soon as the light arch is ignited
- Due to high quality solar cells battery replacement is no longer require
- Equiped with a sensitivityand delaying switch for switching between dark and light to prevent welders blindness when welding at high amp capacity
- Quick switching is possible when changing from seam to spot welding
- Selection switch for reaction time
- Robust multi positional head band
- Complete neck protection
- Face protection to EN 175 / eye protection to EN379 1/2/1
- 3 Watt CREE Chip Power LED
- Luminous flux 100 Lumen
- up to 100 m light range
- Zoom from spot to flood light
- with multifunctional-button: 1W / 3W / Blink
- Lamp can be additionally tilted in 5 click stops
- Weatherproof protection IPX3
- 3 hours lamp duration
- Includes 3 x AAA 1,5V batteries



Technical data:

Switching timed:	1/25,000 s
	0.6 s delay
Window:	98 x 40 mm (3.7/8" x 1.5/8")
Cassette size:	110 x 90 x 9 mm (4.3/8" x 3.1/2" x 0,35")
Power requirement:	litium battery + solar cells
UV / IR protection:	according to EN169 / to DIN 16
Colour selection:	varible adjustment from DIN 9-13
	standard light adjustment DIN 3 (4)
Working temperature:	-5° to +55°C
Storage temperature:	-20° up tp +70°C
Headlight range:	max. 100,0 m
Luminosity:	3 W

	L mm	B mm	H mm	g
310.0185	330,0	200,0	200,0	575

Glasses - orange with ear plugs

- orange-tinted glasses
- compensates for rapid light and shade change
- Suitable for long duration usage
- With UV protection
- Sporting design
- Extremely substantial frame
- Offer protection in maching operations
- Optimal design
- Polycarbonate lens
- Ear plugs with cord included
- CE / EN 352-2
- Ear plugs made from 100% PU
- Sound level reduction: 33 dB

		g
310.0161	Glasses - orange with ear plugs	30

Glasses - yellow with ear plugs

- Yellow shading to increase contrast
- Suitable for long duration usage
- With UV protection
- Sporting design
- Extremely substantial frame
- Offer protection in maching operations
- Optimal design
- Polycarbonate lens
- Ear plugs with cord included
- CE / EN 352-2
- Ear plugs made from 100% PU
- Sound level reduction: 33 dB

		g
310.0166	Glasses - yellow with ear plugs	30

Glasses - black with ear plugs

- Glasses grey tinted
- Suitable for long duration usage
- With UV protection
- Sporting design
- Extremely substantial frame
- Offer protection in maching operations
- Optimal design
- Polycarbonate lens
- Ear plugs with cord included
- CE / EN 352-2
- Ear plugs made from 100% PU
- Sound level reduction: 33 dB

		g
310.0171	Glasses - black with ear plugs	30

Glasses - transparent with ear plugs

- Glasses clear
- Suitable for long duration usage
- With UV protection
- Sporting design
- Extremely substantial frame
- Offer protection in maching operations
- Optimal design
- Polycarbonate lens
- Ear plugs with cord included
- CE / EN 352-2
- Ear plugs made from 100% PU
- Sound level reduction: 33 dB

		g
310.0176	Glasses - transparent with ear plugs	30

Glasses - transparent

- EN 166
- Practical for spectacle wearers
- With ventilation holes for clear visibility
- With firm frame
- With ear clip
- Polycarbonate lens

		g
310.0110	Glasses - transparent	45

Goggles with elastic headband - transparent

- EN 166
- Practical for spectacle wearers
- With ventilation holes for clear visibility
- Adjustable elastic band
- With soft PVC frame
- Polycarbonate lens

		g
310.0120	Goggles with elastic headband - transparent	75

Goggles with elastic headband - transparent with ventilation

- CE EN 166
- With 4 vent holes
- Practical for spectacle wearers
- With ventilation holes for clear visibility
- Adjustable elastic band
- With soft PVC frame
- Polycarbonate lens

		g
310.0112	Goggles with elastic headband - transparent with ventilation	75

EAR PROTECTION

Ear plugs PU, without cord

- 20 pairs
- CE / EN 352-2
- Made from 100% PU
- Without cord
- Sound level reduction: 33 dB

	Content	g
985.7050	20 pairs	550

Ear plugs PU, with cord

- 20 pairs
- CE / EN 352-2
- Made from 100% PU
- With cord
- Sound level reduction: 33 dB

	Content	g
985.7051	20 pairs	50

Ear plugs PU, with cord and mushroom head

- 20 pairs
- CE / EN 352-2
- Made from 100% PU
- With cord
- With mushroom head
- Sound level reduction: 33 dB

	Content	g
985.7055	20 pairs	80

Padded ear defenders with headband - red

- CE / EN 352-1
- With adjustable and padded ear shells for comfortable wear
- Ear shells with stepless fast adjustment
- Sound level reduction: 19 dB

		g
310.0130	Padded ear defenders with headband - red	200

Padded ear defenders with headband - blue

- CE / EN 352-1
- With adjustable and padded ear shells for comfortable wear
- Ear shells with stepless fast adjustment
- Sound level reduction: 25 dB

		g
310.0131	Padded ear defenders with headband - blue	181

Electronic padded ear protection with headband - black

- With integrated microphone
- protects against continuous noise and impulse noise up to 85 dB
- Perception of warning signals through microphone possible
- Volumes regulation through adjusting button

		g
310.0135	Electronic padded ear protection with headband - black	250

WELDING PROTECTION

Welding coat

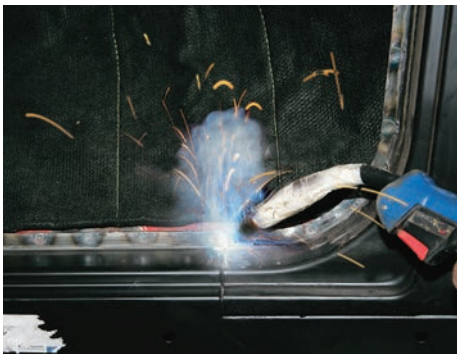
- Double leather closure, front
- With hook and loop fastener
- Adjustable cuffs
- Lined collar and with hook and loop fastener for additional protection
- Inner pocket

		kg
985.7000	L	1,80
985.7001	XL	1,80
985.7002	XXL	1,82
985.7003	XXXL	1,82

Welding apron

- Made from leather
- Adjustable in length
- Size of the waist adjustable
- Breast pocket

		L mm	g
985.7019	L	910,0	775
985.7020	XL	1080,0	775



Leather sleeves

- Dark brown
- Made from leather
- Ends with elastic band

	L mm	Content	g
985.7021	400,0	2	320

Leather sleeves

- Light brown
- Made from leather
- Ends with elastic band

	L mm	Content	g
985.7022	400,0	2	335

Welding leather gloves

- Made from leather
- Good, comfortable wear
- Can be used for applications with heat
- With open sleeves

	Size mm	g
985.7034	8	365
985.7035	9	365
985.7036	10	365
985.7037	11	365

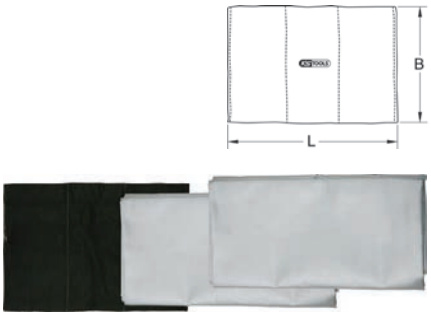
Welding leather gloves, long

- Made from leather
- Extra long
- Good, comfortable wear
- Can be used for applications with heat
- With open sleeves

	Size mm	g
985.7038	8	495
985.7039	9	495
985.7040	10	495
985.7041	11	495

Flame proof mats

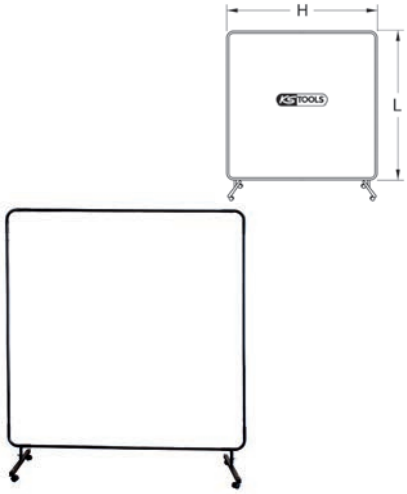
- Asbestos free
- Reduced fire risk
- Very flexible
- Good formability



	B mm	L mm	max. °C	g
610.3350	330,0	500,0	700	330
610.3351	460,0	800,0	700	650
610.3399	1500,0	2000,0	600	2110

Frame for welding protection screen

- Very stable frame made from steel tubing
- With direct rolls
- With 360° swivel joint



	L mm	H mm	kg
985.7026	1780,0	1780,0	4,50

Welding protection awning

- Resistant against UV rays, flames and wear
- Edges with eyelets at 30cm intervals
- Without frame

	Colour code	L mm	H mm	kg
985.7027		1740,0	1740,0	1,72
985.7028		1740,0	1740,0	1,72
985.7029		1740,0	1740,0	1,72

Specifications and rules for hand protection

In order to find the correct protective glove safely and quickly which is suitable for your work area, our products are divided into categories.
This means you can find the glove that meets your requirements reliably:

I - low risk of injury
basic, mechanical protection again welding, fingerprints, etc.

II - specific risk of injury
excellent protection against mechanical exposure

III - irreversible damage and risk to life
highest protection against chemical, bacterial, thermal and static exposure

Fully adequate chemical protection (EN 374)

Protection against the cold (EN 511)

Protection from heat and fire (EN 407)

Protection from ionising radiation (EN 421)

Protection from radioactive contamination (EN 421)

Bear the information brochure in mind (EN 420)

Suitable for processing foodstuffs

Basic chemical protection (EN 374)
for waterproof gloves with low protection against chemical substances

Protection against mechanical dangers (EN 388)
applies for the following physical and mechanical exposure:

- **Wear resistance**
  number of cycles required for the glove to wear through
- **Cut resistance**
  number of cycles required to cut through the glove
- **Tear resistance**
  force required to rip through the glove
- **Penetration resistance**
  force required to puncture the glove

Vinyl single-use gloves, blue

- Only for use with minimal risks
- Made from vinyl
- With powder coating
- Very comfortable design and fit
- Supple and comfortable
- Can be used for applications with foodstuffs, in hospitals and in laboratories

	Size mm	Content	kg	
310.0465	7	100 pcs	0,80	
310.0466	8	100 pcs	0,90	
310.0467	9	100 pcs	1,00	
310.0468	10	100 pcs	1,10	

Micro fine woven gloves - white

- CE / EN 388 [1131]
- Very comfortable design and fit
- Especially breathable fabric
- With PU reinforced gripping palm
- Ideal for working with small parts
- Printed logo

	Size mm	Content	g	
310.0450	9	12 pair	385	
310.0455	10	12 pair	435	
310.0460	11	12 pair	482	

Micro fine woven gloves - black

- CE / EN 388 [1131]
- Very comfortable design and fit
- Especially breathable fabric
- With PU reinforced gripping palm
- Ideal for working with small parts
- Printed logo

	Size mm	Content	g	
310.0470	9	12 pair	398	
310.0475	10	12 pair	430	
310.0480	11	12 pair	445	

Gloves

- CE / EN 388 [3142]
- Glove exterior surface made from polyester
- Glove interior made from nitrile
- Very comfortable design and fit
- Especially breathable fabric
- Good to wear

	Size mm	g	
310.0416	8	60	
310.0417	9	65	
310.0418	10	70	

Gloves

- CE / EN 388 [2142]
- Made from nitrile
- With silicone gel padding in the palm area
- Good to wear
- With elasticated wrists

	Size mm	g	
310.0431	8	60	
310.0432	9	65	
310.0433	10	70	

Gloves, cut resistant

- CE / EN 388 [4343]
- With PU coating
- Especially cut resistant
- Ideal for working with small parts
- Very comfortable design and fit
- With elasticated wrists
- With hook and loop fastener

	Size mm	g	
310.0441	8	60	
310.0442	9	65	
310.0443	10	70	

Gloves, extremely cut resistant

- CE / EN 388 [3542]
- Glove exterior with PU coating
- Glove interior made from glass fibre
- Touchscreen-capable coating for operating smartphones and tablets
- Extremely cut resistant
- Ideal for working with small parts
- Very comfortable design and fit
- Good to wear
- With elasticated wrists

	Size mm	g	
310.0446	8	100	
310.0447	9	110	
310.0448	10	125	

Chemical protection gloves

- CE / EN 388 [4232] / EN 374 GKL
- Made from nitrile
- Lined with jersey
- Can be used for heavy and dangerous work
- Suitable for work with chemicals, oils and greases
- With open sleeves

	Size mm	g	
310.0421	8	140	
310.0422	9	155	
310.0423	10	165	

Winter gloves

- CE / EN 388 [2142] / EN 511 12X
- Made from latex and synthetic material
- Very comfortable design and fit
- Especially breathable fabric
- Good to wear
- Ideal for the winter
- Ideal for working with cold
- With hook and loop fastener

	Size mm	g	
310.0411	8	110	
310.0412	9	120	
310.0413	10	135	

Welding leather gloves

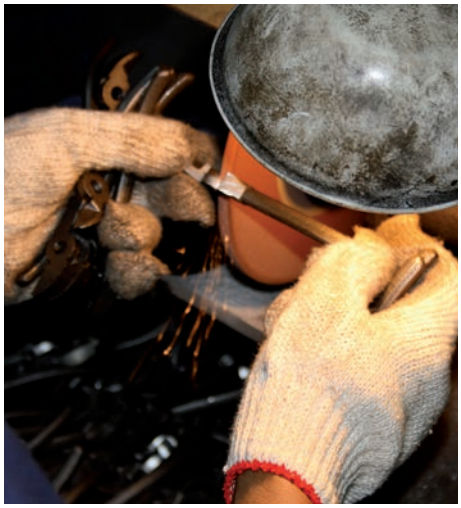
- Made from leather
- Good, comfortable wear
- Can be used for applications with heat
- With open sleeves

	Size mm	g	
985.7034	8	365	
985.7035	9	365	
985.7036	10	365	
985.7037	11	365	

Welding leather gloves, long

- Made from leather
- Extra long
- Good, comfortable wear
- Can be used for applications with heat
- With open sleeves

	Size mm	g	
985.7038	8	495	
985.7039	9	495	
985.7040	10	495	
985.7041	11	495	



Mechanic gloves

- CE / EN 388 [2121]
- Universal use for work and leisure
- Ideal for working with small parts secure grip
- With silicone gel padding in the palm area
- With elasticated wrists
- With hook and loop fastener

	Size mm	g	
310.0350	9	85	
310.0355	10	90	
310.0360	11	95	

Leather mechanic glove

- CE / EN 388 [2111]
- Universal use for work and leisure
- Ideal for working with small parts secure grip
- Inner palm - synthetic material leather
- With anti-vibration protection
- With elasticated wrists
- With hook and loop fastener

	Size mm	g	
310.0250	9	95	
310.0255	10	95	
310.0260	11	100	

Electrician protective glove with natural latex insulation

- Dielectric latex gloves
- Insulated to DIN EN 60903
- With anatomical fit
- Anti-allergy treated
- With straight edge
- UV-resistant packaging

The use of glove liners is recommended for absorbing skin moisture and for better ventilation.

Attention: Over-gloves are necessary for mechanical protection!

	Thickness mm	Size mm	Electrosoft Class	L mm	ϟ	g	
117.2315	1,0	8	0	400,0	500V	215	
117.1662	1,0	10	0	400,0	1000V	215	
117.1661	1,0	9	0	400,0	1000V	215	
117.1762	2,0	10	0	410,0	1000V	470	
117.1756	1,0	9	00	410,0	500V	168	
117.1757	1,0	10	00	410,0	500V	189	
117.2316	1,0	11	0	400,0	500V	215	

Electrician protective glove with natural latex insulation

- Dielectric latex gloves
- Insulated to DIN EN 60903
- With anatomical fit
- Anti-allergy treated
- With straight edge
- UV-resistant packaging

The use of glove liners is recommended for absorbing skin moisture and for better ventilation.

Attention: Over-gloves are necessary for mechanical protection!

	Thickness mm	Size mm	Electrosoft Class	L mm	ϟ	g	
117.1663	1,0	9	0	360,0	1000V	215	
117.1664	1,0	10	0	360,0	1000V	215	
117.1132	2,0	10	1	360,0	7500V	250	
117.1133	2,0	10	3	410,0	26500V	690	
117.1134	2,5	10	4	410,0	36000V	890	

TROUSERS

Work shorts

- With various universal pockets
- Embroidered logo
- Washable up to 60°

Material:
65% cotton
35% polyester

	Size mm	g	
985.0660	48	380	
985.0661	50	405	
985.0662	52	435	
985.0663	56	470	
985.0664	60	500	

Work trousers

- With elasticated waistband inserts
- With hammer loop
- With various universal pockets
- Embroidered logo

Material:
65% cotton
35% polyester

	Size mm	g	
985.0670	48	660	
985.0671	50	685	
985.0672	52	705	
985.0673	56	800	
985.0674	60	750	

Work dungarees

- With various universal pockets
- Adjustable strap with clip closures
- Adjustable drawstring on the leg
- Embroidered logo

Material:
65% cotton
35% polyester

	Size mm	g	
985.0650	48	930	
985.0651	50	900	
985.0652	52	915	
985.0653	56	935	
985.0654	60	980	

WORK COAT

Smock - red-black

- With button placket
- With various universal pockets
- Embroidered logo
- Washable up to 60°

Material:
100% Diagonal-Cotton

	Size mm	g	
985.0741	L	600	
985.0742	XL	640	
985.0743	XXL	680	

OVERALL

Overall - red-black

- With zip fastener
- With various universal pockets
- With padding
- Embroidered logo
- Washable up to 30°

Material:
35% Cotton
65% Polyester

	Size mm	kg	
100391	M	1,10	
100392	L	1,20	
100393	XL	1,30	
100394	XXL	1,40	

racing overalls

- With zip fastener
- With various universal pockets
- With padding
- Embroidered logo
- Washable up to 30°

Material:
100 % Cotton

	Size mm	kg	
985.0940	M	1,35	
985.0941	L	1,39	
985.0942	XL	1,45	
985.0943	XXL	1,49	

KS TOOLS®

Innovation is our mission!

FUSES

Automotive mini fuses assortment

- According to ISO 8820-3
- Fuses colour-coded according to ampere sizes
- In plastic storage case

970.0740	100 pcs	Automotive mini fuses assortment	120
10 x		2 A / ISO 8820-3	
10 x		3 A / ISO 8820-3	
10 x		4 A / ISO 8820-3	
10 x		5 A / ISO 8820-3	
10 x		7.5 A / ISO 8820-3	
10 x		10 A / ISO 8820-3	
10 x		15 A / ISO 8820-3	
10 x		20 A / ISO 8820-3	
10 x		25 A / ISO 8820-3	
10 x		30 A / ISO 8820-3	

Automotive mini fuses assortment

- According to ISO 8820-3
- Fuses colour-coded according to ampere sizes
- In plastic storage case

970.0280	120 pcs	Automotive mini fuses assortment	190
20 x		5 A / ISO 8820-3	
20 x		10 A / ISO 8820-3	
20 x		15 A / ISO 8820-3	
20 x		20 A / ISO 8820-3	
20 x		25 A / ISO 8820-3	
20 x		30 A / ISO 8820-3	

Automotive fuses assortment

- According to ISO 8820-3
- Fuses colour-coded according to ampere sizes
- In plastic storage case

970.0730	36 pcs	Automotive fuses assortment	250
6 x		20 A / ISO 8820-3	
6 x		30 A / ISO 8820-3	
6 x		40 A / ISO 8820-3	
6 x		50 A / ISO 8820-3	
3 x		60 A / ISO 8820-3	
3 x		70 A / ISO 8820-3	
3 x		80 A / ISO 8820-3	
3 x		100 A / ISO 8820-3	

Automotive fuses assortment

- According to ISO 8820-3
- Fuses colour-coded according to ampere sizes
- In plastic storage case

970.0250	120 pcs	Automotive fuses assortment	210
20 x		5 A / ISO 8820-3	
20 x		10 A / ISO 8820-3	
20 x		15 A / ISO 8820-3	
20 x		20 A / ISO 8820-3	
20 x		25 A / ISO 8820-3	
20 x		30 A / ISO 8820-3	

Glass fuses assortment

- Trigger characteristics: Idle
- In plastic storage case

970.0270	120 pcs	Glass fuses assortment	220
20 x		5 A	
20 x		10 A	
20 x		15 A	
20 x		20 A	
20 x		25 A	
20 x		30 A	

CABLE SPLICES

Crimp connectors assortment

- Suitable for wire cross sections: Red 0.5-1.5 mm², blue 1.5-2.5 mm², yellow 2.5-6.0 mm²
- In plastic storage case

970.0290	160 pcs	Crimp connectors assortment	260
12 x		0,5-1,5 mm²	
18 x		1,5-2,5 mm²	
20 x		1,5-2,5 mm²	
12 x		2,5-6,0 mm²	
8 x		0,5-1,5 mm² M4	
10 x		1,5-2,5 mm² M4	
10 x		1,5-2,5 mm² M5	
10 x		1,5-2,5 mm² M6	
4 x		2,5-6,0 mm² M5	

4 x		2,5-6,0 mm² M8
4 x		2,5-6,0 mm² M10
10 x		1,5-2,5 mm²
5 x		2,5-6,0 mm²
10 x		1,5-2,5 mm²
5 x		2,5-6,0 mm²
10 x		1,5-2,5 mm² M4
4 x		0,5-1,5 mm²
4 x		1,5-2,5 mm²

Crimp connectors assortment

- Suitable for wire cross sections: Red 0.5-1.5 mm², blue 1.5-2.5 mm², yellow 2.5-6.0 mm²
- In plastic storage case

970.0300	360 pcs	Crimp connectors assortment	450

10 x		0,5-1,5 mm²
30 x		0,5-1,5 mm²
30 x		1,5-2,5 mm²
10 x		1,5-2,5 mm²
15 x		2,5-6,0 mm²
30 x		1,5-2,5 mm² M5
20 x		1,5-2,5 mm² M6
20 x		1,5-2,5 mm² M10
20 x		2,5-6,0 mm² M5
15 x		2,5-6,0 mm² M6
15 x		2,5-6,0 mm² M10
25 x		1,5-2,5 mm²
25 x		1,5-2,5 mm²
30 x		1,5-2,5 mm² M5
20 x		2,5-6,0 mm² M5
25 x		1,5-2,5 mm²
10 x		1,5-2,5 mm²
10 x		1,5-2,5 mm²

Assortment shrink butt connectors

- suitable for cable cross-sections: red 0.5 - 1.5 mm², blue 1.5 - 2.5 mm², yellow 4.0 - 6.0 mm²
- In plastic storage case

970.0790	200 pcs	Assortment shrink butt connectors	370

90 x		Ø 0,5 - 1,5 mm²
90 x		Ø 1,5 - 2,5 mm²
20 x		Ø 4,0 - 6,0 mm²

Assortment wire end ferrules with crimping pliers

- suitable for cable cross-sections: 0.25 - 6.0 mm²
- In plastic storage case

970.0840	1001 pcs	Assortment wire end ferrules with crimping pliers	900

125 x		0,25 mm²
125 x		0,50 mm²
125 x		0,75 mm²
125 x		1,00 mm²
125 x		1,50 mm²
125 x		2,50 mm²
125 x		4,00 mm²
125 x		6,00 mm²
1 x		0,25 - 6,0 mm

Branch connectors assortment

- Suitable for wire cross sections: Red 0.5-1.5 mm², blue 1.5-2.5 mm²
- In plastic storage case

970.0570	50 pcs	Branch connectors assortment	145

25 x		0,5-1,5 mm²
25 x		1,5-2,5 mm²

SHRINK TUBING

Shrink-on tubes assortment

- Shrinkage ratio 2:1
- In plastic storage case

970.0230	127 pcs	Shrink-on tubes assortment	100

30 x		2,0x40 mm
25 x		2,5x40 mm
20 x		3,5x40 mm
20 x		5,0x40 mm
16 x		7,0x80 mm
8 x		10,0x80 mm
8 x		13,0x85 mm

Shrink tubing assortment

- Shrinkage ratio 2:1
- In plastic storage case

970.0540	100 pcs	Shrink tubing assortment	130
30 x		1,5x100 mm	
30 x		2,5x100 mm	
20 x		4,0x100 mm	
10 x		6,0x100 mm	
6 x		10,0x100 mm	
4 x		13,0x100 mm	

SNAP RINGS

Snap rings assortment, internal

- in accordance with DIN 472
- In plastic storage case

970.0090	180 pcs	Snap rings assortment, internal	180
15 x		Ø 3 mm / DIN 472	
10 x		Ø 4 mm / DIN 472	
10 x		Ø 5 mm / DIN 472	
15 x		Ø 6 mm / DIN 472	
10 x		Ø 8 mm / DIN 472	
15 x		Ø 10 mm / DIN 472	
10 x		Ø 11 mm / DIN 472	
10 x		Ø 12 mm / DIN 472	
10 x		Ø 13 mm / DIN 472	
10 x		Ø 14 mm / DIN 472	
10 x		Ø 16 mm / DIN 472	
10 x		Ø 19 mm / DIN 472	
10 x		Ø 20 mm / DIN 472	
8 x		Ø 22 mm / DIN 472	
8 x		Ø 25 mm / DIN 472	
8 x		Ø 26 mm / DIN 472	
6 x		Ø 28 mm / DIN 472	
5 x		Ø 32 mm / DIN 472	

Snap rings assortment, external

- in accordance with DIN 471
- In plastic storage case

970.0100	300 pcs	Snap rings assortment, external	290
20 x		Ø 3 mm / DIN 471	
10 x		Ø 4 mm / DIN 471	
15 x		Ø 5 mm / DIN 471	
25 x		Ø 6 mm / DIN 471	
15 x		Ø 8 mm / DIN 471	
20 x		Ø 9 mm / DIN 471	
15 x		Ø 11 mm / DIN 471	
15 x		Ø 12 mm / DIN 471	
25 x		Ø 13 mm / DIN 471	
15 x		Ø 14 mm / DIN 471	
20 x		Ø 16 mm / DIN 471	
25 x		Ø 19 mm / DIN 471	
15 x		Ø 20 mm / DIN 471	
20 x		Ø 22 mm / DIN 471	
15 x		Ø 25 mm / DIN 471	
15 x		Ø 26 mm / DIN 471	
10 x		Ø 28 mm / DIN 471	
5 x		Ø 32 mm / DIN 471	

Snap rings assortment, external & internal

- In accordance with DIN 471/472
- In plastic storage case

970.0310	225 pcs	Snap rings assortment, external & internal	250
15 x		Ø 6 mm / DIN 471	
15 x		Ø 8 mm / DIN 471	
15 x		Ø 9 mm / DIN 471	
15 x		Ø 11 mm / DIN 471	
15 x		Ø 13 mm / DIN 471	
15 x		Ø 14 mm / DIN 471	
15 x		Ø 16 mm / DIN 471	
15 x		Ø 19 mm / DIN 471	
10 x		Ø 20 mm / DIN 471	
10 x		Ø 22 mm / DIN 471	
10 x		Ø 25 mm / DIN 471	
5 x		Ø 32 mm / DIN 471	
15 x		Ø 11 mm / DIN 472	
10 x		Ø 13 mm / DIN 472	
10 x		Ø 14 mm / DIN 472	
15 x		Ø 16 mm / DIN 472	
10 x		Ø 19 mm / DIN 472	
10 x		Ø 20 mm / DIN 472	

E-RING CIRCLIPS

E-Ring circlips assortment

- in accordance with DIN 6799
- In plastic storage case

970.0110	300 pcs	E-Ring circlips assortment	460
30 x		Ø 1,5 mm / DIN 6799	
30 x		Ø 3,0 mm / DIN 6799	
40 x		Ø 5,0 mm / DIN 6799	
50 x		Ø 6,0 mm / DIN 6799	
50 x		Ø 10,0 mm / DIN 6799	
40 x		Ø 12,0 mm / DIN 6799	
20 x		Ø 15,0 mm / DIN 6799	
20 x		Ø 19,0 mm / DIN 6799	
20 x		Ø 22,0 mm / DIN 6799	

SAE E-Ring circlips assortment

- in accordance with DIN 6799
- In plastic storage case

970.0320	300 pcs	SAE E-Ring circlips assortment	530
30 x		1/16" / DIN 6799	
30 x		1/8" / DIN 6799	
40 x		3/16" / DIN 6799	
50 x		1/4" / DIN 6799	
50 x		3/8" / DIN 6799	
40 x		1/2" / DIN 6799	
20 x		5/8" / DIN 6799	
20 x		3/4" / DIN 6799	
20 x		7/8" / DIN 6799	

HOSE CLAMPS

Hose clamp assortment

- Suitable for tube diameters 16-40mm
- In plastic storage case

970.0070	26 pcs	Hose clamp assortment	300
8 x		Ø 16 mm	
6 x		Ø 22 mm	
4 x		Ø 25 mm	
2 x		Ø 28 mm	
2 x		Ø 35 mm	
4 x		Ø 40 mm	

Assortment single ear hose clamps

- Suitable for tube diameters 5,8-21mm
- Stainless steel
- In plastic storage case

970.0830	170 pcs	Assortment single ear hose clamps	490
20 x		Ø 5,8 - 7,0 mm	
20 x		Ø 7,3 - 9,0 mm	
20 x		Ø 8,8 - 10,5 mm	
20 x		Ø 10,8 - 13,3 mm	
20 x		Ø 12,0 - 14,5 mm	
20 x		Ø 12,3 - 14,8 mm	
20 x		Ø 14,5 - 17,0 mm	
15 x		Ø 16,0 - 19,2 mm	
15 x		Ø 17,8 - 21,0 mm	

Assortment mini hose clamps

- Suitable for tube diameters 7-18mm
- In plastic storage case

970.0770	78 pcs	Assortment mini hose clamps	550
10 x		Ø 7 - 9 mm	
10 x		Ø 8 - 10 mm	
10 x		Ø 9 - 11 mm	
10 x		Ø 10 - 12 mm	
6 x		Ø 11 - 13 mm	
6 x		Ø 12 - 14 mm	
6 x		Ø 13 - 15 mm	
6 x		Ø 14 - 16 mm	
7 x		Ø 15 - 17 mm	
7 x		Ø 16 - 18 mm	

GREASE NIPPLES

Grease nipple assortment

- in accordance with DIN 71412
- In plastic storage case

970.0030	110 pcs	Grease nipple assortment	500 g
60 x		M6 x1 mm/0° / DIN 71412	
10 x		M8 x1 mm/0° / DIN 71412	
10 x		M10x1 mm/0° / DIN 71412	
5 x		M6 x1 mm/45° / DIN 71412	
5 x		M8 x1 mm/45° / DIN 71412	
5 x		M10x1 mm/45° / DIN 71412	
5 x		M6 x1 mm/90° / DIN 71412	
5 x		M8 x1 mm/90° / DIN 71412	
5 x		M10x1 mm/90° / DIN 71412	

Greasing nipples assortment, metric & imperial

- In plastic storage case

970.0360	70 pcs	Greasing nipples assortment, metric & imperial	410 g
10 x		1/8"x27,0 mm / DIN 71412	
20 x		1/4"x28,0 mm / DIN 71412	
10 x		6x 1,0 mm / DIN 71412	
5 x		8x 1,0 mm / DIN 71412	
5 x		10x 1,0 mm / DIN 71412	
5 x		1/8"x27,0 mm/45° / DIN 71412	
5 x		1/4"x28,0 mm/45° / DIN 71412	
5 x		1/8"x27,0 mm/90° / DIN 71412	
5 x		1/4"x28,0 mm/90° / DIN 71412	

SAFETY ELEMENTS

Split pins assortment

- in accordance with DIN 94
- Straight design
- In plastic storage case

970.0080	555 pcs	Split pins assortment	700 g
150 x		1,6x25 mm / DIN 94	
150 x		2,4x25 mm / DIN 94	
100 x		2,4x38 mm / DIN 94	
75 x		3,2x32 mm / DIN 94	
50 x		3,2x50 mm / DIN 94	
30 x		4,0x64 mm / DIN 94	

Split pins assortment

- in accordance with DIN 94
- Straight design
- In plastic storage case

970.0330	1000 pcs	Split pins assortment	1,00 kg
380 x		1,5x25 mm / DIN 94	
240 x		2,5x25 mm / DIN 94	
140 x		2,5x38 mm / DIN 94	
115 x		3,0x30 mm / DIN 94	
75 x		3,0x50 mm / DIN 94	
50 x		4,0x60 mm / DIN 94	

Roll pins assortment

- in accordance with DIN 1481
- Ideally suited for the automotive sector
- In plastic storage case

970.0020	315 pcs	Roll pins assortment	810 g
10 x		1,5x 5,0 mm / DIN 1481	
10 x		1,5x 8,0 mm / DIN 1481	
10 x		1,5x20,0 mm / DIN 1481	
10 x		2,0x 6,0 mm / DIN 1481	
10 x		2,0x12,0 mm / DIN 1481	
10 x		2,0x25,0 mm / DIN 1481	
10 x		2,5x16,0 mm / DIN 1481	
10 x		2,5x25,0 mm / DIN 1481	
10 x		2,5x30,0 mm / DIN 1481	
15 x		3,0x16,0 mm / DIN 1481	
15 x		3,0x25,0 mm / DIN 1481	
15 x		3,0x30,0 mm / DIN 1481	
10 x		4,0x16,0 mm / DIN 1481	
10 x		4,0x25,0 mm / DIN 1481	
10 x		4,0x40,0 mm / DIN 1481	
15 x		5,0x16,0 mm / DIN 1481	
15 x		5,0x25,0 mm / DIN 1481	
15 x		5,0x30,0 mm / DIN 1481	
10 x		5,5x16,0 mm / DIN 1481	
10 x		5,5x30,0 mm / DIN 1481	
10 x		5,5x45,0 mm / DIN 1481	
10 x		6,0x16,0 mm / DIN 1481	
10 x		6,0x30,0 mm / DIN 1481	
10 x		6,0x45,0 mm / DIN 1481	
10 x		8,0x20,0 mm / DIN 1481	
10 x		8,0x40,0 mm / DIN 1481	
10 x		8,0x50,0 mm / DIN 1481	
5 x		10,0x20,0 mm / DIN 1481	
5 x		10,0x40,0 mm / DIN 1481	
5 x		10,0x50,0 mm / DIN 1481	

Security bolts assortment

- Split pin mounting 2.5 - 3 - 4mm
- In plastic storage case

970.0210	60 pcs	Security bolts assortment	1050 g
4 x	2,5 mm	5,0x25 mm	
4 x	2,5 mm	6,0x25 mm	
3 x	2,5 mm	6,0x30 mm	
4 x	2,5 mm	6,0x40 mm	
3 x	2,5 mm	6,0x45 mm	
3 x	2,5 mm	6,0x50 mm	
3 x	2,5 mm	6,0x60 mm	
3 x	2,5 mm	6,0x65 mm	
3 x	3,0 mm	8,0x25 mm	
3 x	3,0 mm	8,0x30 mm	
4 x	3,0 mm	8,0x40 mm	
3 x	3,0 mm	8,0x45 mm	
2 x	3,0 mm	8,0x50 mm	
2 x	3,0 mm	8,0x60 mm	
1 x	3,0 mm	8,0x65 mm	
2 x	3,0 mm	8,0x70 mm	
4 x	4,0 mm	10x25 mm	
3 x	4,0 mm	10x40 mm	
2 x	4,0 mm	10x50 mm	
2 x	4,0 mm	12x40 mm	
2 x	4,0 mm	12x50 mm	

Lynch pins assortment

- For securing to agricultural and construction machines
- In plastic storage case

970.0550	50 pcs	Lynch pins assortment	1,46 kg
16 x		Ø 4,5x36 mm	
18 x		Ø 6,0x45 mm	
6 x		Ø 8,0x45 mm	
10 x		Ø 11,0x45 mm	

Spring split pins assortment

- In accordance with DIN 11024
- Fuse element in machine and vehicle construction
- In plastic storage case

970.0060	150 pcs	Spring split pins assortment	520 g
30 x		2,0x33 mm / DIN 11024	
25 x		2,0x40 mm / DIN 11024	
42 x		2,4x31 mm / DIN 11024	
25 x		2,8x42 mm / DIN 11024	
20 x		3,5x45 mm / DIN 11024	
8 x		4,0x75 mm / DIN 11024	

Roll pins/Seeger rings/ feather keys/E-Ring circlips assortment

- in accordance with DIN 471
- According to ISO 3912/13337
- In plastic storage case

970.0520	295 pcs	Roll pins/Seeger rings/ feather keys/E-Ring circlips assortment	220 g
12 x		3/8" / DIN 471	
12 x		1/2" / DIN 471	
12 x		5/8" / DIN 471	
12 x		3/4" / DIN 471	
20 x		1/4" / DIN 6799	
20 x		3/8" / DIN 6799	
12 x		1/8"x5/8" / ISO 13337	
12 x		1/8"x 1" / ISO 13337	
12 x		5/32"x5/8" / ISO 13337	
12 x		5/32"x 1" / ISO 13337	
12 x		3/16"x5/8" / ISO 13337	
12 x		3/16"x 1" / ISO 13337	
25 x		3/32"x3/8" / ISO ISO3912	
25 x		3/32"x1/2" / ISO ISO3912	
25 x		1/8"x1/2" / ISO ISO3912	
25 x		1/8"x5/8" / ISO ISO3912	
25 x		5/32"x5/8" / ISO ISO3912	
10 x		3/16"x3/4" / ISO ISO3912	

Feather keys assortment

- For securing of shafts
- In plastic storage case

970.0560	80 pcs	Feather keys assortment	335
10 x		3x5,0x13 mm	
10 x		3x6,5x16 mm	
10 x		4x5,0x13 mm	
10 x		4x6,5x16 mm	
10 x		4x7,5x19 mm	
10 x		5x7,5x19 mm	
10 x		5x9,0x22 mm	
10 x		6x9,0x22 mm	

Springs assortment

- Range of compression and tension springs
- In plastic storage case

970.0010	200 pcs	Springs assortment	370
12 x		4,0x79,5 mm	
8 x		4,5x44,5 mm	
10 x		5,0x20,5 mm	
10 x		5,5x25,5 mm	
10 x		6,5x22,0 mm	
10 x		7,0x38,0 mm	
12 x		7,0x51,0 mm	
8 x		8,0x28,5 mm	
10 x		8,0x31,5 mm	
12 x		8,0x44,5 mm	
10 x		8,5x36,5 mm	
12 x		8,5x47,0 mm	
10 x		5,5x17,0 mm	
10 x		5,5x38,0 mm	
10 x		6,5x10,0 mm	
10 x		7,0x12,5 mm	
10 x		7,0x19,0 mm	
8 x		9,0x35,0 mm	
6 x		9,5x16,0 mm	
12 x		9,5x19,0 mm	

NAILS

Nails assortment

- ideal for hobbies and workshops
- In plastic storage case

970.0370	550 pcs	Nails assortment	400
100 x		1,3x22 mm	
80 x		1,4x25 mm	
80 x		1,6x30 mm	
50 x		2,0x38 mm	
20 x		2,5x50 mm	
80 x		1,6x25 mm	
80 x		1,6x31 mm	
30 x		2,0x38 mm	
30 x		2,5x30 mm	

SCREWS/NUTS/RING WASHERS

Metal & wooden screws assortment, self-tapping

- According to ISO 7049/7050
- In plastic storage case

970.0410	240 pcs	Metal & wooden screws assortment, self-tapping	360
20 x		#4x1/2" / ISO 7049	
20 x		#6x1/2" / ISO 7049	
20 x		#6x5/8" / ISO 7049	
20 x		#6x3/4" / ISO 7049	
20 x		#8x5/8" / ISO 7049	
20 x		#8x 1" / ISO 7049	
20 x		#6x1/2" / ISO 7050	
20 x		#6x3/4" / ISO 7050	
20 x		#8x1/2" / ISO 7050	
20 x		#8x5/8" / ISO 7050	
20 x		#8x3/4" / ISO 7050	
20 x		#10x 1" / ISO 7050	

Ball head Parker screws assortment

- In accordance with ISO 7049
- In plastic storage case

970.0420	550 pcs	Ball head Parker screws assortment	680
65 x		1/2" / ISO 7049	
55 x		5/8" / ISO 7049	
60 x		3/8" / ISO 7049	

65 x	1/2“ / ISO 7049
60 x	5/8“ / ISO 7049
45 x	3/4“ / ISO 7049
50 x	1/2“ / ISO 7049
40 x	5/8“ / ISO 7049
30 x	1“ / ISO 7049
20 x	1.1/4“ / ISO 7049
25 x	3/4“ / ISO 7049
20 x	1“ / ISO 7049
15 x	1.1/4“ / ISO 7049

Wooden screws assortment

- In accordance with ISO 7050
- In plastic storage case

970.0430	550 pcs	Wooden screws assortment	680

65 x	#4x 1/2“ / ISO 7050
55 x	#4x 5/8“ / ISO 7050
60 x	#6x 3/8“ / ISO 7050
65 x	#6x 1/2“ / ISO 7050
60 x	#6x 5/8“ / ISO 7050
45 x	#6x 3/4“ / ISO 7050
50 x	#8x 1/2“ / ISO 7050
40 x	#8x 5/8“ / ISO 7050
30 x	#8x 1“ / ISO 7050
20 x	#8x1.1/4“ / ISO 7050
25 x	#10x 3/4“ / ISO 7050
20 x	#10x 1“ / ISO 7050
15 x	#10x1.1/4“ / ISO 7050

Assortment raised head sheet metal screws

- in accordance with DIN 7981
- In plastic storage case

970.0800	750 pcs	Assortment raised head sheet metal screws	630

100 x	M2,5 x 10,0 mm / DIN 7981
100 x	M3 x 12,0 mm / DIN 7981
100 x	M3 x 16,0 mm / DIN 7981
100 x	M3 x 20,0 mm / DIN 7981
100 x	M3 x 30,0 mm / DIN 7981
100 x	M4 x 16,0 mm / DIN 7981
100 x	M4 x 20,0 mm / DIN 7981
50 x	M4 x 25,0 mm / DIN 7981

Self-tapping/wooden/machine screws assortment

- In accordance with DIN 7985/126/555/7981/7982
- In plastic storage case

970.0500	347 pcs	Self-tapping/wooden/machine screws assortment	480

32 x	M3,5x12,0 mm / DIN 7981
26 x	M3,5x20,0 mm / DIN 7981
13 x	M5 x25,0 mm / DIN 7981
24 x	M5 x20,0 mm / DIN 7985
19 x	M5 x25,0 mm / DIN 7985
10 x	M6 x20,0 mm / DIN 7985
43 x	M3 x12,0 mm / DIN 7982
32 x	M3,5x20,0 mm / DIN 7982
10 x	M4 x25,0 mm / DIN 7982
59 x	M5 / DIN 126
19 x	M6 / DIN126
49 x	M5 / DIN 555
11 x	M6 / DIN 555

Nuts assortment, metric

- In accordance with DIN 934
- In plastic storage case

970.0440	300 pcs	Nuts assortment, metric	480

80 x	M3 / DIN 934
70 x	M4 / DIN 934
70 x	M5 / DIN 934
50 x	M6 / DIN 934
20 x	M8 / DIN 934
10 x	M10 / DIN 934

Stainless steel nuts assortment, metric

- In accordance with DIN 934
- In plastic storage case

970.0450	300 pcs	Stainless steel nuts assortment, metric	480

80 x	M3 / DIN 934
70 x	M4 / DIN 934
70 x	M5 / DIN 934
50 x	M6 / DIN 934
20 x	M8 / DIN 934
10 x	M10 / DIN 934

Self locking nuts assortment

- In accordance with DIN 985
- In plastic storage case

970.0120	146 pcs	Self locking nuts assortment	560 g
35 x		M4 / DIN 985	
35 x		M5 / DIN 985	
25 x		M6 / DIN 985	
25 x		M8 / DIN 985	
16 x		M10 / DIN 985	
10 x		M12 / DIN 985	

UNF self-tightening nuts assortment

- In accordance with ISO 7040
- In plastic storage case

970.0490	100 pcs	UNF self-tightening nuts assortment	600 g
25 x		32 mm / ISO 7040	
25 x		1/4"x28 mm / ISO 7040	
20 x		5/16"x24 mm / ISO 7040	
20 x		3/8"x24 mm / ISO 7040	
5 x		7/16"x20 mm / ISO 7040	
5 x		1/2"x20 mm / ISO 7040	

UNC self-tightening nuts assortment

- In accordance with ISO 7040
- In plastic storage case

970.0480	100 pcs	UNC self-tightening nuts assortment	600 g
25 x		24 mm / ISO 7040	
25 x		20 mm / ISO 7040	
20 x		18 mm / ISO 7040	
20 x		16 mm / ISO 7040	
5 x		14 mm / ISO 7040	
5 x		13 mm / ISO 7040	

Toothed and standard washers assortment

- In accordance with DIN 127
- In plastic storage case

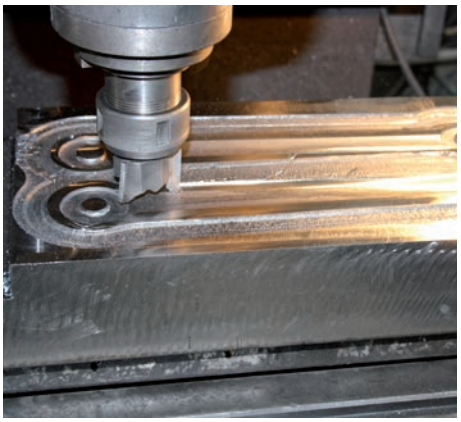
970.0240	720 pcs	Toothed and standard washers assortment	270 g
50 x		M3 / DIN 127	
50 x		M4 / DIN 127	
50 x		M5 / DIN 127	
40 x		M6 / DIN 127	
30 x		M8 / DIN 127	
20 x		M10 / DIN 127	

50 x		M3 / DIN 127
50 x		M4 / DIN 127
50 x		M5 / DIN 127
40 x		M6 / DIN 127
30 x		M8 / DIN 127
20 x		M10 / DIN 127
50 x		M3 / DIN 127
50 x		M4 / DIN 127
50 x		M5 / DIN 127
40 x		M6 / DIN 127
30 x		M8 / DIN 127
20 x		M10 / DIN 127

Spring washers assortment

- In accordance with DIN 127
- In plastic storage case

970.0220	1200 pcs	Spring washers assortment	480 g
300 x		M3 / DIN 127	
300 x		M4 / DIN 127	
300 x		M5 / DIN 127	
150 x		M6 / DIN 127	
100 x		M8 / DIN 127	
50 x		M10 / DIN 127	



Clip bolts & eyebolts assortment

- Open and closed
- In plastic storage case

970.0380	151 pcs	Clip bolts & eyebolts assortment	590
60 x		15/16“	
12 x		1.13/16“	
12 x		1.15/16“	
50 x		1.5/8“	
12 x		2.1/2“	
5 x		3.3/8“	

SPECIAL NUTS & SCREWS

Stainless steel nuts assortment, metric

- In accordance with DIN 1587
- In plastic storage case

970.0460	150 pcs	Stainless steel nuts assortment, metric	700
30 x		M3 / DIN 1587	
30 x		M4 / DIN 1587	
30 x		M5 / DIN 1587	
30 x		M6 / DIN 1587	
20 x		M8 / DIN 1587	
10 x		M10 / DIN 1587	

Wing nuts assortment

- In accordance with DIN 315
- In plastic storage case

970.0470	150 pcs	Wing nuts assortment	750
40 x		M4 / DIN 315	
40 x		M5 / DIN 315	
25 x		M6 / DIN 315	
25 x		M8 / DIN 315	
20 x		M10 / DIN 315	

Headless screws assortment

- In accordance with DIN 913
- In plastic storage case

970.0400	160 pcs	Headless screws assortment	350
15 x		3x 5 mm / DIN 913	
15 x		4x 5 mm / DIN 913	
10 x		5x 6 mm / DIN 913	
20 x		6x 6 mm / DIN 913	
10 x		6x10 mm / DIN 913	
20 x		8x10 mm / DIN 913	
10 x		8x12 mm / DIN 913	
10 x		10x10 mm / DIN 913	
10 x		10x12 mm / DIN 913	
15 x		6x 6 mmF / DIN 913	
15 x		8x10 mmF / DIN 913	
10 x		10x10 mmF / DIN 913	

Hexagon screws assortment, metric

- In accordance with DIN 912
- In plastic storage case

970.0390	106 pcs	Hexagon screws assortment, metric	650
25 x		M4 x12 mm / DIN 912	
25 x		M5 x12 mm / DIN 912	
20 x		M5 x25 mm / DIN 912	
10 x		M6 x12 mm / DIN 912	
10 x		M6 x25 mm / DIN 912	
5 x		M8 x25 mm / DIN 912	
5 x		M8 x40 mm / DIN 912	
3 x		M10x25 mm / DIN 912	
3 x		M10x40 mm / DIN 912	

Ball head machine screws assortment, metric

- In accordance with DIN 7985/126/127/555
- In plastic storage case

970.0510	475 pcs	Ball head machine screws assortment, metric	590
20 x		M4x16,0 mm / DIN 7985	
20 x		M4x25,0 mm / DIN 7985	
20 x		M5x20,0 mm / DIN 7985	
20 x		M5x25,0 mm / DIN 7985	
20 x		M6x20,0 mm / DIN 7985	

50 x		M4	/ DIN 127
50 x		M5	/ DIN 127
25 x		M6	/ DIN 127
50 x		M4	/ DIN 126
50 x		M5	/ DIN 126
25 x		M6	/ DIN 126
50 x		M4	/ DIN 555
50 x		M5	/ DIN 555
25 x		M6	/ DIN 555

MANDREL

Assortment expansion and anchor dowels

- ideal for fastening in ceilings and lightweight walls
- Zinc coated
- In plastic storage case

970.0820	40 pcs	Assortment expansion and anchor dowels	440
10 x		M4 x 20,0 mm	
10 x		M4 x 48,0 mm	
6 x		M5 x 36,0 mm	
6 x		M5 x 52,0 mm	
4 x		M6 x 47,0 mm	
4 x		M6 x 52,0 mm	

BLIND RIVETS

Blind rivets assortment

- Breakable pin made from steel
- In plastic storage case

970.0150	400 pcs	Blind rivets assortment	250
100 x		2,4 mm	
100 x		3,2 mm	
100 x		4,0 mm	
100 x		4,8 mm	

GROMMETS

Rubber grommets assortment

- For secure guiding of cables into bore holes
- In plastic storage case

970.0050	110 pcs	Rubber grommets assortment	180
25 x		Ø 8,3 mm	
20 x		Ø 10,3 mm	
20 x		Ø 13,5 mm	
20 x		Ø 15,0 mm	
10 x		Ø 15,4 mm	
5 x		Ø 20,2 mm	
5 x		Ø 27,0 mm	
5 x		Ø 32,5 mm	

BODYWORK ELEMENTS

Bodywork nuts & screws assortment

- Wing clamps / bodywork nuts in various sizes and forms
- In plastic storage case

970.0530	170 pcs	Bodywork nuts & screws assortment	300
20 x		M3	
20 x		M4	
15 x		M5	
20 x		M3	
10 x		M6	
40 x		M3x 8	
20 x		M4x16	
15 x		M5x12	
10 x		M6x20	

O-RINGS/WASHERS

O-rings assortment, internal

- In accordance with DIN 3771
- In plastic storage case

970.0180	225 pcs	O-rings assortment, internal	120
20 x		3,0x 5,0x1,0 mm / DIN 3771	
20 x		4,0x 6,0x1,0 mm / DIN 3771	
20 x		4,5x 8,5x2,0 mm / DIN 3771	
20 x		5,0x 9,0x2,0 mm / DIN 3771	
20 x		6,0x10,0x2,0 mm / DIN 3771	
20 x		6,0x11,0x2,5 mm / DIN 3771	
20 x		6,0x12,0x3,0 mm / DIN 3771	
20 x		7,0x11,0x2,0 mm / DIN 3771	
20 x		8,0x12,0x2,0 mm / DIN 3771	
5 x		9,0x12,5x2,0 mm / DIN 3771	
5 x		10,0x14,0x2,0 mm / DIN 3771	
5 x		12,0x18,0x3,0 mm / DIN 3771	
5 x		13,0x19,0x3,0 mm / DIN 3771	
5 x		14,0x19,0x2,5 mm / DIN 3771	
5 x		17,0x22,0x2,5 mm / DIN 3771	
5 x		18,0x26,0x4,0 mm / DIN 3771	
5 x		20,0x24,0x2,0 mm / DIN 3771	
5 x		22,0x26,0x2,0 mm / DIN 3771	

O-rings assortment

- In accordance with DIN 3771
- In plastic storage case

970.0130	419 pcs	O-rings assortment	630

20 x	R01 Ø 3,0 mm / DIN 3771
20 x	R02 Ø 4,4 mm / DIN 3771
18 x	R03 Ø 5,0 mm / DIN 3771
23 x	R04 Ø 7,0 mm / DIN 3771
23 x	R05 Ø 10,0 mm / DIN 3771
23 x	R06 Ø 13,0 mm / DIN 3771
14 x	R07 Ø 10,0 mm / DIN 3771
13 x	R08 Ø 11,0 mm / DIN 3771
14 x	R09 Ø 13,0 mm / DIN 3771
13 x	R10 Ø 14,0 mm / DIN 3771
14 x	R11 Ø 16,0 mm / DIN 3771
14 x	R12 Ø 18,0 mm / DIN 3771
13 x	R13 Ø 19,0 mm / DIN 3771
14 x	R14 Ø 21,0 mm / DIN 3771
13 x	R15 Ø 22,0 mm / DIN 3771
10 x	R16 Ø 18,0 mm / DIN 3771
10 x	R17 Ø 20,0 mm / DIN 3771
10 x	R18 Ø 22,0 mm / DIN 3771
10 x	R19 Ø 23,5 mm / DIN 3771
10 x	R20 Ø 25,0 mm / DIN 3771
10 x	R21 Ø 26,5 mm / DIN 3771
10 x	R22 Ø 28,0 mm / DIN 3771
10 x	R23 Ø 30,0 mm / DIN 3771
10 x	R24 Ø 31,0 mm / DIN 3771
10 x	R25 Ø 33,0 mm / DIN 3771
10 x	R26 Ø 34,5 mm / DIN 3771
10 x	R27 Ø 36,0 mm / DIN 3771
10 x	R28 Ø 38,0 mm / DIN 3771
10 x	R29 Ø 41,0 mm / DIN 3771
10 x	R30 Ø 44,0 mm / DIN 3771
10 x	R31 Ø 47,0 mm / DIN 3771
10 x	R32 Ø 50,0 mm / DIN 3771

SAE O-rings assortment

- ideal for hobbies and workshops
- In plastic storage case

970.0350	407 pcs	SAE O-rings assortment	600

20 x	R01 Ø 1/8"
20 x	R02 Ø 3/16"
20 x	R03 Ø 1/4"
20 x	R04 Ø 5/16"
20 x	R05 Ø 3/8"
20 x	R06 Ø 1/2"
13 x	R07 Ø 3/8"
13 x	R08 Ø 7/16"
13 x	R09 Ø 1/2"
13 x	R10 Ø 9/16"
13 x	R11 Ø 5/8"
13 x	R12 Ø 1 1/16"
13 x	R13 Ø 3/4"
13 x	R14 Ø 13/16"
13 x	R15 Ø 7/8"
10 x	R16 Ø 3/4"
10 x	R17 Ø 13/16"
10 x	R18 Ø 7/8"
10 x	R19 Ø 15/16"
10 x	R20 Ø 1"
10 x	R21 Ø 1.1/16"
10 x	R22 Ø 1.1/8"
10 x	R23 Ø 1.3/16"
10 x	R24 Ø 1.1/4"
10 x	R25 Ø 1.5/16"
10 x	R26 Ø 1.3/8"
10 x	R27 Ø 1.7/16"
10 x	R28 Ø 1.1/2"
10 x	R29 Ø 1.5/8"
10 x	R30 Ø 1.3/4"
10 x	R31 Ø 1.7/8"
10 x	R32 Ø 2"

O-rings assortment for HNBR air-conditioning

- In accordance with DIN 3771
- Made from HNBR: Specially for use on air conditioning lines
- In plastic storage case

970.0260	225 pcs	O-rings assortment for HNBR air-conditioning	120

20 x	3,0x1,0 mm / DIN 3771
20 x	4,0x1,0 mm / DIN 3771
20 x	4,5x2,0 mm / DIN 3771
20 x	5,0x2,0 mm / DIN 3771
20 x	6,0x2,0 mm / DIN 3771
20 x	6,0x2,5 mm / DIN 3771
20 x	6,0x3,0 mm / DIN 3771
20 x	7,0x2,0 mm / DIN 3771
20 x	8,0x2,0 mm / DIN 3771
5 x	9,0x2,0 mm / DIN 3771
5 x	10,0x2,0 mm / DIN 3771
5 x	12,0x3,0 mm / DIN 3771
5 x	13,0x3,0 mm / DIN 3771
5 x	14,0x2,5 mm / DIN 3771
5 x	17,0x2,5 mm / DIN 3771
5 x	18,0x4,0 mm / DIN 3771
5 x	20,0x2,0 mm / DIN 3771
5 x	22,0x2,0 mm / DIN 3771

O-rings assortment for HNBR air conditioning

- Made from HNBR: Specially for use in air conditioning lines
- In plastic storage case

970.0340	270 pcs	O-rings assortment for HNBR air conditioning	150

20 x	5,29x1,78 mm
20 x	6,07x1,78 mm
20 x	6,80x1,90 mm
20 x	7,65x1,78 mm
40 x	7,80x1,90 mm
20 x	8,80x1,90 mm
20 x	10,00x2,00 mm
15 x	10,70x2,62 mm
15 x	11,00x2,00 mm
15 x	11,00x1,78 mm
15 x	12,90x2,00 mm
10 x	13,90x1,78 mm
10 x	14,00x2,00 mm
10 x	17,00x1,78 mm
10 x	17,00x2,00 mm
10 x	17,00x3,53 mm
10 x	6x12,0x1,0 mm / DIN 93
10 x	8x12,0x1,0 mm / DIN 93
10 x	8x14,0x1,0 mm / DIN 93
10 x	8x14,0x1,5 mm / DIN 93
10 x	9x14,0x1,0 mm / DIN 93
10 x	10x14,0x1,0 mm / DIN 93
10 x	10x14,0x1,5 mm / DIN 93
10 x	10x16,0x1,0 mm / DIN 93
10 x	12x16,0x1,0 mm / DIN 93
10 x	12x16,0x1,5 mm / DIN 93
10 x	12x18,0x1,5 mm / DIN 93
10 x	13x18,0x1,0 mm / DIN 93
10 x	14x18,0x1,5 mm / DIN 93
10 x	14x20,0x1,5 mm / DIN 93
10 x	14x20,0x2,0 mm / DIN 93
10 x	16x20,0x1,5 mm / DIN 93
10 x	16x22,0x1,5 mm / DIN 93
10 x	18x22,0x1,5 mm / DIN 93
10 x	18x24,0x1,5 mm / DIN 93
10 x	19x26,0x2,0 mm / DIN 93
10 x	20x24,5x1,5 mm / DIN 93
10 x	20x24,5x0,8 mm / DIN 93
10 x	22x27,0x1,0 mm / DIN 93
10 x	22x29,0x1,5 mm / DIN 93
10 x	24x29,0x1,5 mm / DIN 93
10 x	24x32,0x2,0 mm / DIN 93
10 x	26x34,0x2,0 mm / DIN 93
10 x	28x36,0x2,0 mm / DIN 93
10 x	7,0x10x1,0 mm / DIN 93
10 x	8,0x12x1,0 mm / DIN 93
10 x	10,0x16x1,0 mm / DIN 93
10 x	10,5x17x1,5 mm / DIN 93
10 x	11,0x17x1,5 mm / DIN 93
10 x	12,0x20x1,5 mm / DIN 93
10 x	12,5x20x1,5 mm / DIN 93
10 x	14,0x18x1,0 mm / DIN 93
10 x	14,0x20x1,5 mm / DIN 93
10 x	15,0x20x2,0 mm / DIN 93
10 x	16,0x22x2,0 mm / DIN 93
10 x	16,5x24x2,0 mm / DIN 93
10 x	17,5x24x2,0 mm / DIN 93

Copper washers assortment

- In accordance with DIN 93
- In plastic storage case

970.0140	300 pcs	Copper washers assortment	790

10 x	5x 9,0x1,0 mm / DIN 93
10 x	6x10,0x1,0 mm / DIN 93

Copper washers assortment

- In accordance with DIN 93
- In plastic storage case

970.0040	150 pcs	Copper washers assortment	320

10 x	5,0x10x1,0 mm / DIN 93
10 x	6,0x10x1,0 mm / DIN 93

Aluminium washers assortment

- In accordance with DIN 93
- In plastic storage case

970.0160	300 pcs	Aluminium washers assortment	430

10 x	5x 9,0x1,0 mm / DIN 93
10 x	6x10,0x1,0 mm / DIN 93
10 x	6x12,0x1,0 mm / DIN 93
10 x	8x12,0x1,0 mm / DIN 93
10 x	8x14,0x1,0 mm / DIN 93
10 x	8x14,0x1,5 mm / DIN 93
10 x	9x14,0x1,0 mm / DIN 93
10 x	10x14,0x1,0 mm / DIN 93
10 x	10x14,0x1,5 mm / DIN 93
10 x	10x16,0x1,0 mm / DIN 93
10 x	12x16,0x1,0 mm / DIN 93
10 x	12x16,0x1,5 mm / DIN 93
10 x	12x18,0x1,5 mm / DIN 93
10 x	13x18,0x1,0 mm / DIN 93
10 x	14x18,0x1,5 mm / DIN 93
10 x	14x20,0x1,5 mm / DIN 93
10 x	14x20,0x2,0 mm / DIN 93

10 x		16x20,0x1,5 mm / DIN 93
10 x		16x22,0x1,5 mm / DIN 93
10 x		18x22,0x1,5 mm / DIN 93
10 x		18x24,0x1,5 mm / DIN 93
10 x		19x26,0x2,0 mm / DIN 93
10 x		20x24,5x0,8 mm / DIN 93
10 x		20x24,5x1,5 mm / DIN 93
10 x		22x27,0x1,0 mm / DIN 93
10 x		22x29,0x1,5 mm / DIN 93
10 x		24x29,0x1,5 mm / DIN 93
10 x		24x32,0x2,0 mm / DIN 93
10 x		26x34,0x2,0 mm / DIN 93
10 x		28x36,0x2,0 mm / DIN 93

Assortment composite sealing rings

- Seal material NBR
- In plastic storage case

970.0760	150 pcs	Assortment composite sealing rings	340

10 x		6,0 x 10,0 x 1,4 mm
10 x		8,0 x 13,0 x 1,3 mm
10 x		10,0 x 16,0 x 2,0 mm
20 x		12,0 x 18,0 x 2,0 mm
20 x		14,0 x 22,0 x 2,0 mm
20 x		16,0 x 24,0 x 2,0 mm
20 x		18,0 x 26,0 x 2,0 mm
20 x		20,0 x 28,0 x 2,0 mm
10 x		22,0 x 30,0 x 2,3 mm
10 x		24,0 x 32,0 x 2,3 mm

Washer assortment, plumbing

- In accordance with DIN 7337
- In plastic storage case

970.0190	141 pcs	Washer assortment, plumbing	150

5 x		3/8" / 8,0x18,0x4,0 mm / DIN 7337
5 x		3/8" / 10,5x14,0x4,0 mm / DIN 7337
10 x		1/2" / 4,0x16,0x4,0mm / DIN 7337
10 x		1/2" / 4,0x17,0x4,0 mm / DIN 7337
5 x		1/2" / 8,0x14,0x4,0 mm / DIN 7337
10 x		1/2" / 8,0x18,0x4,0 mm / DIN 7337
10 x		3/4" / 12,0x24,0x2,0mm / DIN 7337
5 x		3/4" / 15,0x24,0x3,0mm / DIN 7337
10 x		3/8" / 10,0x13,5x2,0 mm / DIN 7337
10 x		3/8" / 12,0x17,5x1,5 mm / DIN 7337
10 x		1/2" / 17,0x21,0x1,5 mm / DIN 7337
10 x		1/2" / 17,0x24,0x1,5 mm / DIN 7337
10 x		3/4" / 20,5x25,0x1,5 mm / DIN 7337
5 x		1" / 27,0x33,0x1,5 mm / DIN 7337
10 x		1/2" / 12,0x17,5x1,0 mm / DIN 7337
10 x		3/4" / 17,0x24,0x2,0 mm / DIN 7337
3 x		1.1/4" / 30,0x39,0x1,0 mm / DIN 7337
3 x		1.1/2" / 27,0x38,0x2,0 mm / DIN 7337

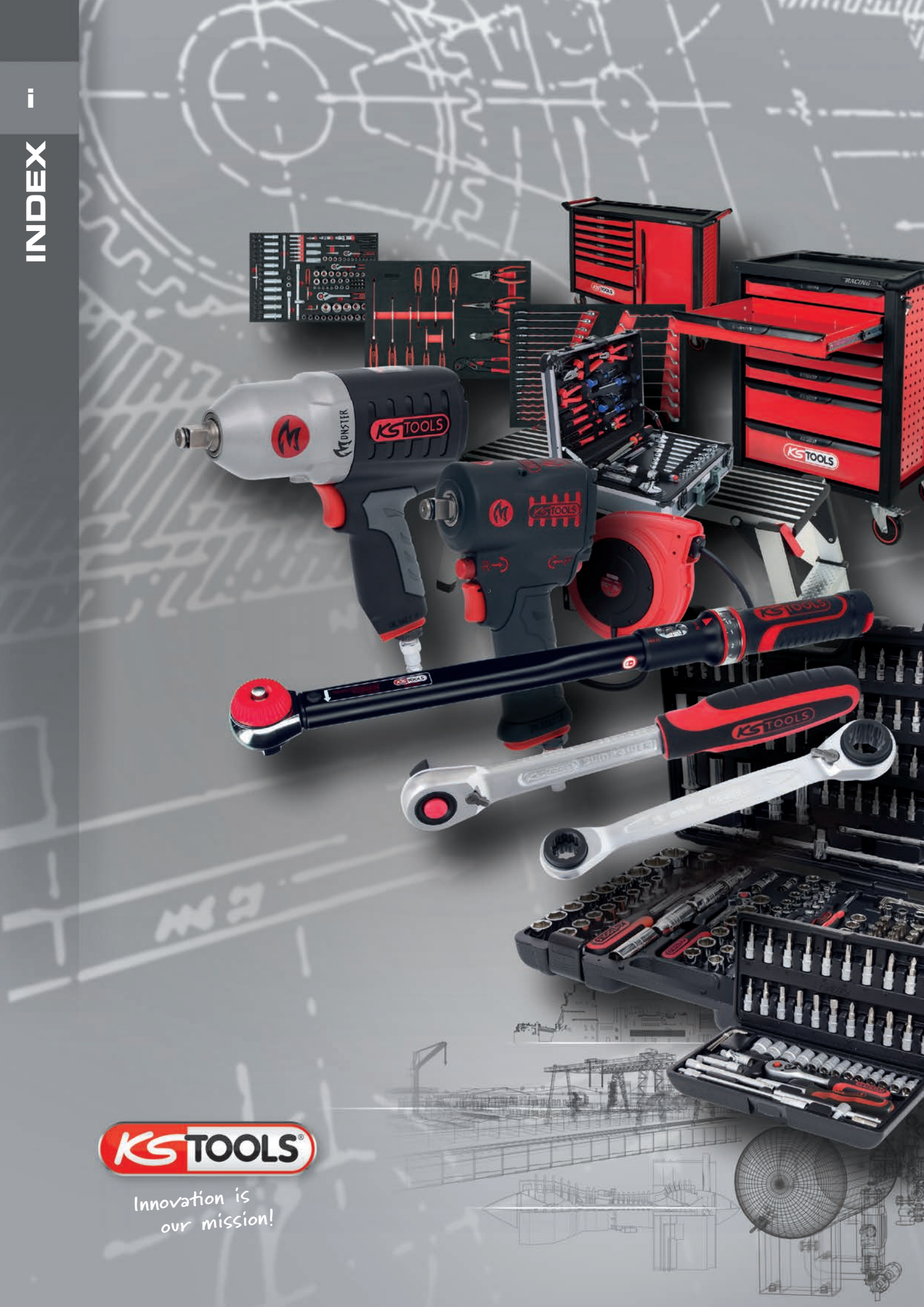
OIL SUMP DRAIN PLUG AND & WASHER

Oil sump drain plug and washer assortment

- Screws M10 - M20
- Washers 6 - 20 mm
- In plastic storage case

970.0200	534 pcs	Oil sump drain plug and washer assortment	2000

50 x		6 mm
50 x		8 mm
50 x		10 mm
50 x		12 mm
50 x		13 mm
50 x		14 mm
50 x		15 mm
50 x		16 mm
50 x		18 mm
50 x		20 mm
5 x		M10
5 x		M12
5 x		M13
5 x		M14
5 x		M15
3 x		M16
3 x		M18
3 x		M20



KS TOOLS®

Innovation is
our mission!

Conversion table from inches to millimetres

Conversion example from mm to inches: 69,850 mm = 2.3/4”
Conversion example from inches to mm: 4.1/2” = 114,300 mm

inch	mm	1	2	3	4	5	6	7	8	9
		millimetres								
0	0	25,400	50,800	76,200	101,600	127,000	152,400	177,800	203,200	228,600
1/64	0,397	25,797	51,197	76,597	101,997	127,397	152,797	178,197	203,597	228,997
1/32	0,794	26,194	51,594	76,994	102,394	127,794	153,194	178,594	203,994	229,394
3/64	1,191	26,591	51,991	77,391	102,791	128,191	153,591	178,991	204,391	229,791
1/16	1,588	26,988	52,388	77,788	103,188	128,588	153,988	179,388	204,788	230,188
5/64	1,984	27,384	52,784	78,184	103,584	128,984	154,384	179,784	205,184	230,584
3/32	2,381	27,781	53,181	78,581	103,981	129,381	154,781	180,181	205,581	230,981
7/64	2,778	28,178	53,578	78,978	104,378	129,778	155,178	180,578	205,978	231,378
1/8	3,175	28,575	53,975	79,375	104,775	130,175	155,575	180,975	206,375	231,775
9/64	3,572	28,972	54,372	79,772	105,172	130,572	155,972	181,372	206,772	232,172
5/32	3,969	29,369	54,769	80,169	105,569	130,969	156,369	181,769	207,169	232,569
11/64	4,366	29,766	55,166	80,566	105,966	131,366	156,766	182,166	207,566	232,966
3/16	4,762	30,162	55,562	80,962	106,362	131,762	157,162	182,562	207,962	233,362
13/64	5,159	30,559	55,959	81,359	106,759	132,159	157,559	182,959	208,359	233,759
7/32	5,556	30,956	56,356	81,756	107,156	132,556	157,956	183,356	208,756	234,156
15/64	5,953	31,353	56,753	82,153	107,553	132,953	158,353	183,753	209,153	234,553
1/4	6,35	31,750	57,150	82,550	107,950	133,350	158,750	184,150	209,550	234,950
17/64	6,747	32,147	57,547	82,947	108,347	133,747	159,147	184,547	209,947	235,347
9/32	7,144	32,544	57,944	83,344	108,744	134,144	159,544	184,944	210,344	235,744
19/64	7,541	32,941	58,341	83,741	109,141	134,541	159,941	185,341	210,741	236,141
5/16	7,938	33,338	58,738	84,138	109,538	134,938	160,338	185,738	211,138	236,538
21/64	8,334	33,734	59,134	84,534	109,934	135,334	160,734	186,134	211,534	236,934
11/32	8,731	34,131	59,531	84,931	110,331	135,731	161,131	186,531	211,931	237,331
23/64	9,128	34,528	59,928	85,328	110,728	136,128	161,528	186,928	212,328	237,728
3/8	9,525	34,925	60,325	85,725	111,125	136,525	161,925	187,325	212,725	238,125
25/64	9,922	35,322	60,722	86,122	111,522	136,922	162,322	187,722	213,122	238,522
13/32	10,319	35,719	61,119	86,519	111,919	137,319	162,719	188,119	213,519	238,919
27/64	10,716	36,116	61,516	86,916	112,316	137,716	163,116	188,516	213,916	239,316
7/16	11,112	36,512	61,912	87,312	112,712	138,112	163,512	188,912	214,312	239,712
29/64	11,509	36,909	62,309	87,709	113,109	138,509	163,909	189,309	214,709	240,109
15/32	11,906	37,306	62,706	88,106	113,506	138,906	164,306	189,706	215,106	240,506
31/64	12,303	37,703	63,103	88,503	113,903	139,303	164,703	190,103	215,503	240,903
1/2	12,7	38,100	63,500	88,900	114,300	139,700	165,100	190,500	215,900	241,300
33/64	13,097	38,497	63,897	89,297	114,697	140,097	165,497	190,897	216,297	241,697
17/32	13,494	38,894	64,294	89,694	115,094	140,494	165,894	191,294	216,694	242,094
35/64	13,891	39,291	64,691	90,091	115,491	140,891	166,291	191,691	217,091	242,491
9/16	14,288	39,688	65,088	90,488	115,888	141,288	166,688	192,088	217,488	242,888
37/64	14,684	40,084	65,484	90,884	116,284	141,684	167,084	192,484	217,884	243,284
19/32	15,081	40,481	65,881	91,281	116,681	142,081	167,481	192,881	218,281	243,681
39/64	15,478	40,878	66,278	91,678	117,078	142,478	167,878	193,278	218,678	244,078
5/8	15,875	41,275	66,675	92,075	117,475	142,875	168,275	193,675	219,075	244,475
41/64	16,272	41,672	67,072	92,472	117,872	143,272	168,672	194,072	219,472	244,872
21/32	16,669	42,069	67,469	92,869	118,269	143,669	169,069	194,469	219,869	245,269
43/64	17,066	42,466	67,866	93,266	118,666	144,066	169,466	194,866	220,266	245,666
11/16	17,462	42,862	68,262	93,662	119,062	144,462	169,862	195,262	220,662	246,062
45/64	17,859	43,259	68,659	94,059	119,459	144,859	170,259	195,659	221,059	246,459
23/32	18,256	43,656	69,056	94,456	119,856	145,256	170,656	196,056	221,456	246,856
47/64	18,653	44,053	69,453	94,853	120,253	145,653	171,053	196,453	221,853	247,253
3/4	19,05	44,450	69,850	95,250	120,650	146,050	171,450	196,850	222,250	247,650
49/64	19,447	44,847	70,247	95,647	121,047	146,447	171,847	197,247	222,647	248,047
25/32	19,844	45,244	70,644	96,044	121,444	146,844	172,244	197,644	223,044	248,444
51/64	20,241	45,641	71,041	96,441	121,841	147,241	172,641	198,041	223,441	248,841
13/16	20,638	46,038	71,438	96,838	122,238	147,638	173,038	198,438	223,838	249,238
53/64	21,034	46,434	71,834	97,234	122,634	148,034	173,434	198,834	224,234	249,634
27/23	21,431	46,831	72,231	97,631	123,031	148,431	173,831	199,231	224,631	250,031
55/64	21,828	47,228	72,628	98,028	123,428	148,828	174,228	199,628	225,028	250,428
7/8	22,225	47,625	73,025	98,425	123,825	149,225	174,625	200,025	225,425	250,825
57/64	22,622	48,022	73,422	98,822	124,222	149,622	175,022	200,422	225,822	251,222
29/32	23,019	48,419	73,819	99,219	124,619	150,019	175,419	200,819	226,219	251,619
59/64	23,416	48,816	74,216	99,616	125,016	150,416	175,816	201,216	226,616	252,016
15/16	23,812	49,212	74,612	100,012	125,412	150,812	176,212	201,612	227,012	252,412
61/64	24,209	49,609	75,009	100,409	125,809	151,209	176,609	202,009	227,409	252,809
31/32	24,606	50,006	75,406	100,806	126,206	151,606	177,006	202,406	227,806	253,206
63/64	25,003	50,403	75,803	101,203	126,603	152,003	177,403	202,803	228,203	253,603

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