NEW! VINCIX Up To 83% Faster!

LIVewi

Durable Production Performance

Cordless For Safety Critical Joints



The Most Cost-Effective Safe

Up To 50% Savings Over Traditional Systems!

Mobility is a major advantage with wireless communications. Cleco LiveWire[™] marries the freedom and flexibility of cordless tools with real-time wireless error proofing. Utilizing an industry standard 2.4GHz WLAN (Wireless Local Area network) interface in conjunction with the highest security encryption and authentification levels, plus a 512-cycle tool memory buffer, LiveWire[™] ensures you will never compromise safety critical

data transmissions.

LIVEWIRE

10 LiveWire Tools. 1 Line Controller. vmax

Cleco

ety Critical Solution Available.

Up To 83% More Productivity!

FC

ETSI

Vmax

Cleco LiveWire[™] tools are now available with Vmax[™], a solution that drives tool power and speed increases up to 83% without losing accuracy or durability. This leading innovation utilizes the same 10 tools to one line controller hardware solution with up to 50% cost savings over traditional systems. New Vmax[™] technology auto-senses the applied power source and adjusts the maximum tool speed capability on the fly. LiveWire[™] with Vmax[™] combines the power you need with the most versatile wireless system available today.

LIVEWIRE

Wireless Security

Cleco

mPro400

- WEP (Wired Equivalent Privacy)
 - 64/128 Bit Encryption HEX (RC4)
- WPA (Wireless Protected Access)/WPA2/802.11
 - 128 Bit TKIP/CCMP Encryption
 802.1x EAP
 - Authentification
 - LEAP, PEAP, TTLS
 - GTC, MD5, OTP, PAP, CHAP, MSCHAP, MSCHAPv2, TTLS MSCHAPv2



Cleco Cordless

All The Brains. All The P

ABCDEFGH: RDSEO 2: RS 1/1 Pos 5/7 5 5/7

Isualisation Pestening loc - Group 1

VD Hele

LiveWire[™] offers precision torque, angle and speed control features for safety critical fastening in an ergonomic, wireless design.

With up to 1,700 rundowns per battery charge or continuous power, your safety critical applications are assured to never run out of power.

LiveWire[™] has been designed and tested to provide wireless connectivity across the harshest of machine-tomachine environments.





CE

Operator audible alarmProgrammable sound duration

Digital Process Control

Mait For start signal

- Auto bolt sequencing
- Auto image selection
- Configurable reject management

Electronic Intelligence

- On-board controller with power management
- Integrated servo with I/O signal handling
- Auto sensing power intelligence
- 512 cycle memory buffer



101

Cleco

Aux J.Guara

Power. And It's Wireless.

Integrated Bar Code Scanner (optional)

- Enables real-time bar code data collection
- Programmable bit for Auto Parameter Select
- Tool enable and disable configurability

Configurable LED Illumination

Operator Display

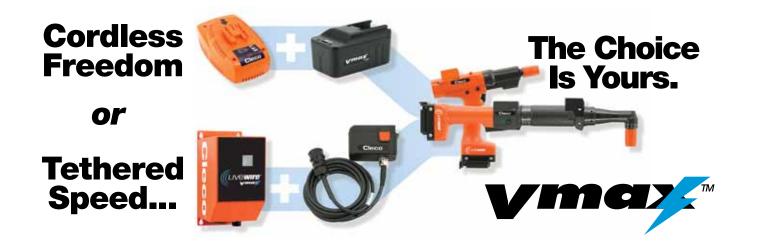
- Real-time interface
- Redundant feedback
 - Green LCD = OK
 - Yellow LCD = Running
 - Red LCD = NOK / Errors
 - Green LED = OK
 - Red LED = NOK
- Configurable application buttons

Modular Tightening System



One controller manages up to 32 tools simultaneously in varying combinations.

Batteries & Chargers



44V Li-Ion Battery Technology

- Up to 83% faster vs. 26V battery
- Up to 1,700 rundowns/charge (hard joint)
- Life > 800 charging cycles
- On-board intelligence
 - Charge level/cycles LCD
 - Diagnostics to a PC
- Single tab, one-hand removal



The cells and electronic balancing circuit are fixed to an internal cell holder to provide maximum durability.





5 bar on-battery display for advanced feedback

Charge Cycles - Unplugged display

Display	Charge Cycles
	0 – 199
	200 – 399
	400 – 599
	600 – 799
	> 800

Charge	l evel -	 Operation 	nal disnlav

Display	Charge Level
	Deep Sleep Mode or Defective
	< 20%
	20 – 40%
	40 – 60%
	60 – 80%
	80 – 100%

936400PT



26V/44V Charger Technology

- Auto-sensing 26/44V
- One hour charge cycle
- Auto-sensing input (85-270) VAC
- Power/Status LEDs

Single tab removal

Charger Display For Advanced Feedback

Power Supply

CE



Red/Green LED For Charge & E rror					
LED Display	Status				
•	No Battery				
Flash @ .5 Hz	Charging, Level > 80%				
🔵 Flash @ 1 Hz	Charging, Level < 80%				
•	Battery 100% Charge				
	Cell Over Temperature				
🛑 Flash @ 2 Hz	Battery Error (Short circuit, defective cell, etc.)				

Power Module, Controllers & Software





LiveWire Power Module

- Up to 83% faster!
- Auto sensing input (85-275 VAC)
- Power & status LEDs
- Electronic circuit protection





Power Module

Model No.	We	ight	Wi	dth	Ler	ngth	Depth		
	lbs.	kg	in.	mm	in.	mm	in.	mm	
961350PT	6.8	3.1	9.4	240	4.7	120	5.9	150	
2M power cable included									

	•			
Corriso	Model Number	Free (R		
Series	Model Number	26V Battery	Tethered	Increase
	17BPXSB05Q	1639	2428	48%
Pistol	17BPXSB07Q	1161	1721	48%
Pis	17BPXSB09Q	887	1314	48%
	17BPXSB13Q	629	931	48%
	47BAXSB15AM3	538	983	83%
	47BAXSB21AM3	411	751	83%
Right Angle	47BAXSB28AM3	291	532	83%
it A	47BAXSB35AM3	244	447	83%
Righ	47BAXSB50AM3	168	293	75%
	47BAXSB70AH4	123	216	75%
	47BAXSB105AH4	82	114	75%

Speed Improvement Comparison

mPro400GC Controller

Up to 16 tools per controller (LiveWire + Corded + Fixtured)

CE

- 10.4" display with wide viewing angle
- Touchscreen with alpha numeric entry
- Corded and cordless functionality
- Redundant Ethernet and Fieldbus ports
- Serial and USB connectivity
- Configurable 24V I/O
- System bus standard
- Fieldbus optional

mPro400GC	Nomenclatu	re
	40000	Y

	-00000	~	
Controller Style	Series	Туре	
		M – N P – Pi	
		F - FI	intary



Global Controllers

Model Number*	Description -		Weight		Width		Height		Depth*	
model Number	Description	lbs.	kg	in.	mm	in.	mm	in.	mm	
MPRO400GC-M	Master controller, display, no servo, Fieldbus optional	23.3	10.57	10.5	266.7	15	381.0	13.24	336.29	
MPRO400GC-P	Primary controller, display, STMH servo, Fieldbus optional	30.8	13.97	10.5	266.7	15	381.0	13.24	336.29	

*Includes mounting bracket.

Low-Cost Software Solution



No error proofing No software licensing Up to 10 tools to PC Local data storage



TMEB-COM-V2.03

Cordless Transducer Control – Angle

Cleco

Right Angle Series

- Torque Range
 Bolt Size

 5.5 105 Nm
 M5 M12

 4.1 77.4 Ft. Lbs.
 #10 9/16"
- Brushless precision
- Resolver control
- Transducer accuracy
- On-board controller with power management
 Integrated serve with I/O
- Integrated servo with I/O signal handling

47BAXSB28AM3



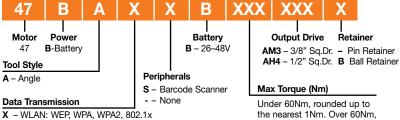
(Apex u-Guard socket shown above not included,







Cordless Tools Nomenclature



Z – Xbee (4 tools/access point)

 \mathbf{R} – RF868MHz (4 tools/box station) EU only

rounded to the nearest 5Nm.

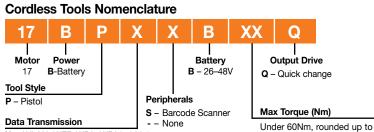
Angle	Torque	Range	Free Speed (RPM)		Weight Less Battery		Output	Length With 26V Battery		
Model Number	Ft.Lbs.	Nm	26V*	44V*	Tethered	lbs.	kg	Drive Size	in.	mm
47BAXSB15AM3	4.1-11.1	5.5-15	538	983	983	4.77	2.17	3/8" SQ	21.79	553.5
47BAXSB21AM3	5.9-15.5	8-21	411	751	751	4.77	2.17	3/8" SQ	21.79	553.5
47BAXSB28AM3	7.4-20.7	10-28	291	532	532	4.77	2.17	3/8" SQ	22.32	567.5
47BAXSB35AM3	9.6-25.8	12-35	244	447	447	5.35	2.43	3/8" SQ	23.06	600.0
47BAXSB50AM3	13.3-36.9	18-50	168	293	293	5.39	2.45	3/8" SQ	23.94	608.0
47BAXSB70AH4	17.7-51.6	24-70	123	216	216	8.54	3.88	1/2" SQ	26.7	678.0
47BAXSB105AH4	29.5-77.4	40-105	82	144	144	8.73	3.96	1/2" SQ	26.7	678.0

*Speed with fully charged battery. General: All tools must be used with a Cleco approved line controller. Standard Equipment: Integrated infrared communications. Extra Equipment: See back page for optional accessories.

Cordless Transducer Control – Pistol

Cleco





X – WLAN: WEP, WPA, WPA2, 802.1x

Z – Xbee (4 tools/access point)

R - RF868MHz (4 tools/box station) EU only

Pistol	Torque Range		Fr	Free Speed (RPM)			Weight ess Battery Drive Size		Length With	1 26V Battery
Model Number	Ft.Lbs.	Nm	26V*	44V*	Tethered	lbs.	kg	Drive Size	in.	mm
17BPXSB05Q	2.2-3.7	3-5	1639	2428	2428	3.34	1.52	1/4" Hex	8.44	214.5
17BPXSB07Q	2.2-5.2	3-7	1161	1721	1721	3.34	1.52	1/4" Hex	8.44	214.5
17BPXSB09Q	2.2-6.6	3-9	887	1314	1314	3.34	1.52	1/4" Hex	8.44	214.5
17BPXSB13Q	2.2-9.6	3-13	629	931	931	3.34	1.52	1/4" Hex	8.44	214.5

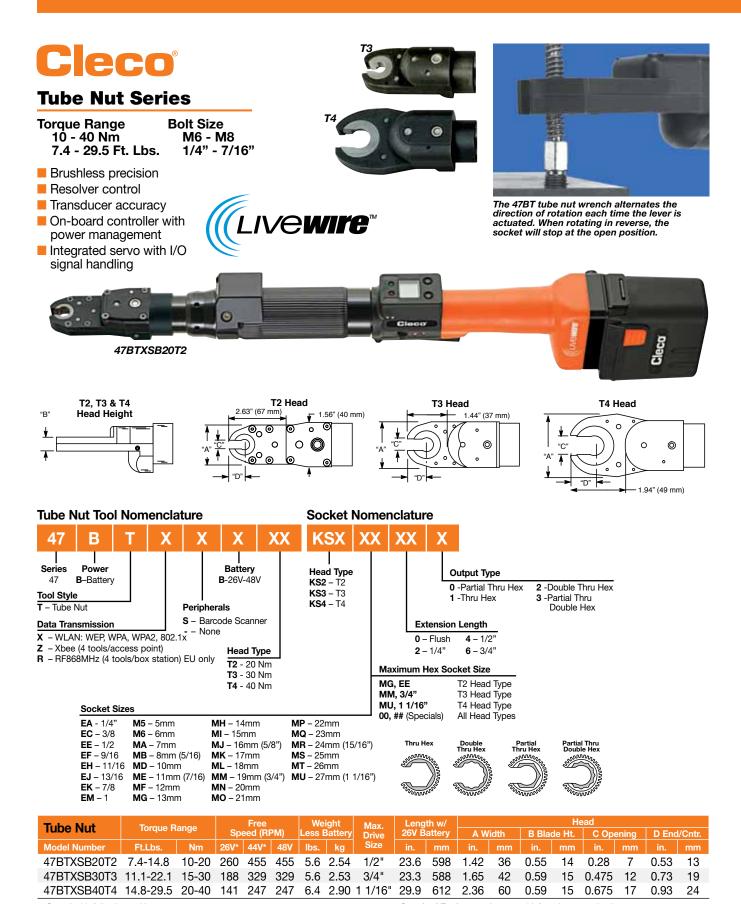
the nearest 1Nm.

*Speed with fully charged battery.

General: All tools must be used with a approved Cleco line controller.

Standard Equipment: Integrated infrared communications. Extra Equipment: See back page for optional accessories.

Cordless Transducer Control – Tube Nut

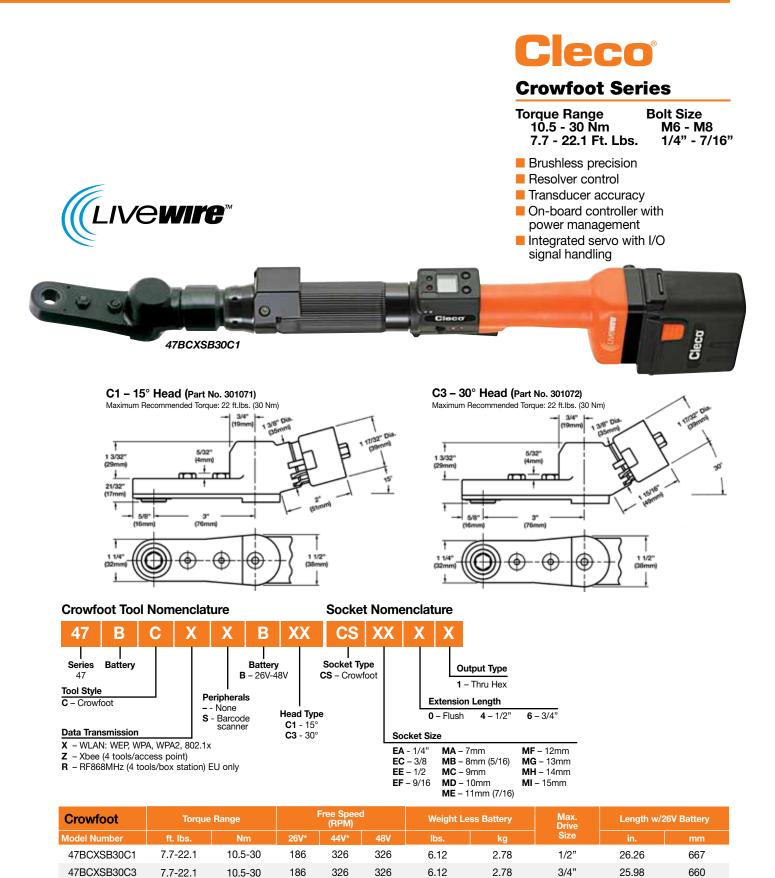


*Speed with fully charged battery. General: All tools must be used with a Cleco approved line controller. Standard Equipment: Integrated infrared communications. Extra Equipment: See back page for optional accessories.

To order individual sockets, use a "KS" prefix. (i.e. KS2EA01 for a T2, 1/4", flush, thru hex socket.)

Cordless Transducer Control – Crowfoot

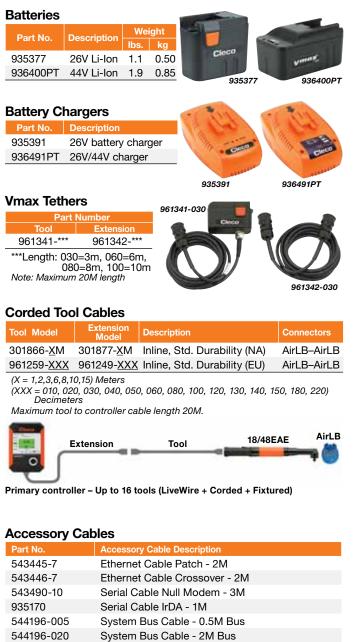
Cleco



*Speed with fully charged battery. General: All tools must be used with a Cleco approved line controller. Standard Equipment: Integrated infrared communications. Extra Equipment: See back page for optional accessories.

To order individual sockets, use a "CS" prefix before the required socket. (i.e. CSEE01 for a 1/2", flush, thru hex socket.)

Cleco Cordless Accessories



544196-020System Bus Cable - 2M Bus544196-050System Bus Cable - 5M Bus544196-200System Bus Cable - 20M Bus544196-500System Bus Cable - 50M Bus544197PTSystem Bus Terminator

CE

Preventative Maintenance Diagnostics

- USB to PC interface
- Displays discharge cycles, total and per cell voltage
- Better diagnostics
- Easy to troubleshoot

Battery service interface allows cycles and cell voltages to be read via serial interface cable.



936492PT

Accessories

Accessorie	
Part No.	Accessory Description
301837	Reversible Mount Pistol Dead Handle
543995	Access Point 2.4GHz WLAN (US)
544163PT	CompactFlash Module Programmed
544171PT	Fieldbus Devicenet
544172PT	Fieldbus Ethernet-IP
544173PT	Fieldbus Profibus
544174PT	Fieldbus Profinet
544183PT	Cleco Remote Programming Software
935144	Pistol tool holder w/infrared interface
935154	9' (3m) extension cable
935155	19.5' (6m) extension cable
935157	33' (10m) extension cable
935290	Angle tool holder w/infrared interface
935395	Angle tool holder
935396	Pistol tool holder
935998	70/110 Nm RA & Crowfoot tool holder
935999	70/110 Nm RA & Crowfoot tool holder w/infrared interface
936372	Cover Angle Head (47BA15-28AM)
936373	Cover Angle Head (47BA35-50AM)
936424PT	Cover Scanner (47BA)
936492PT	Battery service interface and software CD
961300	868MHz Base Station (EU only)
961323	Access Point 2.4GHz WLAN (EU)
961390	Xbee 2.4GHz Access Point (US/EU)
S133405	System Bus Stack Light without Buzzer
S133406	System Bus Control Box with Buzzer
S133410	System Bus 4-Position Socket Tray
S133411	System Bus 8-Position Socket Tray
S133420	System Bus Stack Light with Buzzer
S133436	System Bus 32 I/O Expander
S133437	System Bus 16 I/O Expander
TMEB- COM-V2.03	PC software interface

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