

**Cleco**<sup>®</sup>



**LIVewire**<sup>™</sup>

**Durable Production Performance**

**Cordless For Safety Critical Joints**

**COOPER** PowerTools

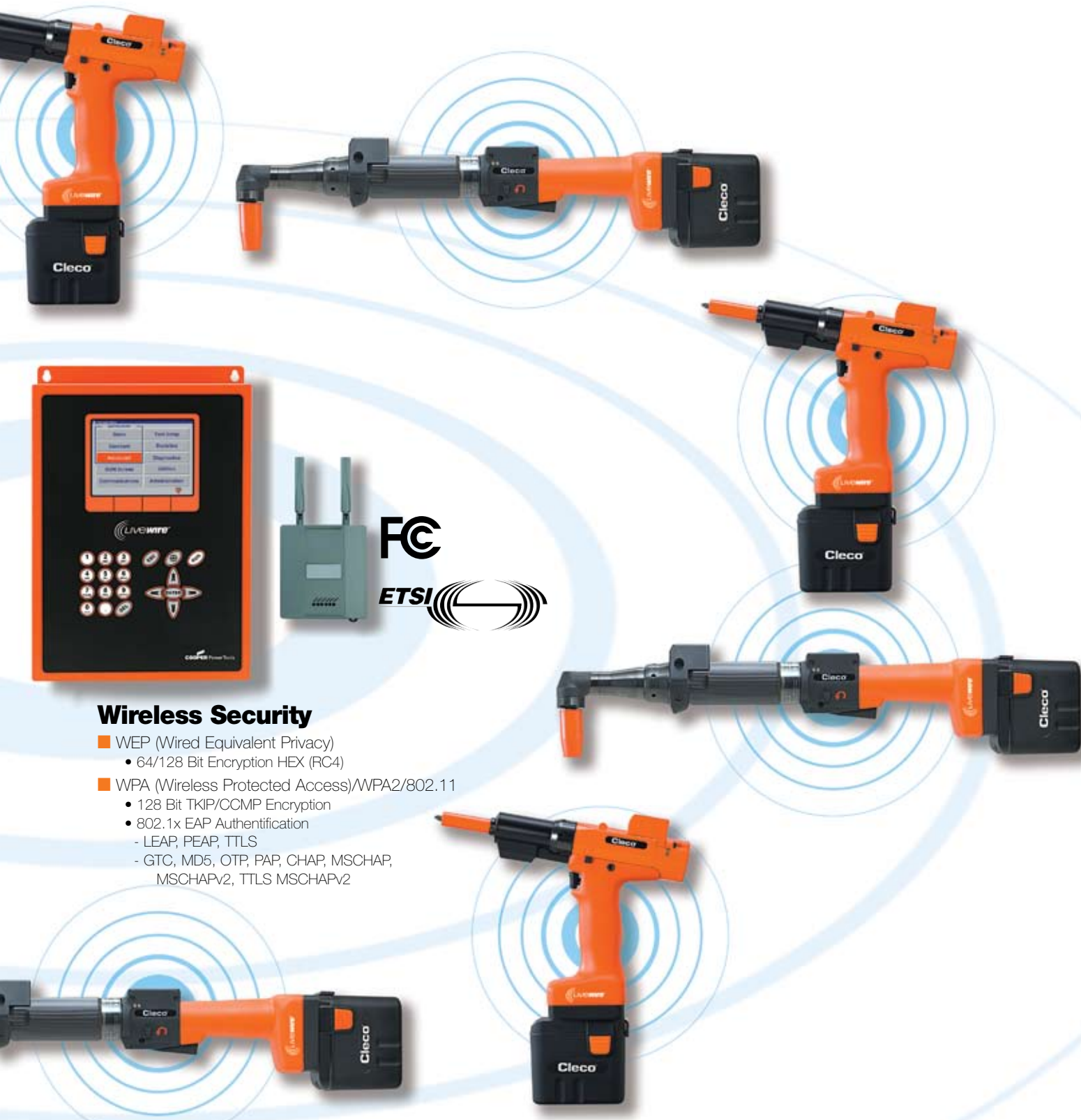
# The Most Cost-Effective Safe

Mobility is one of the major advantages of wireless communications. Cleco® LiveWire™ is the ultimate wireless error-proofing solution for safety critical applications. One line controller manages up to 10 cordless tools creating the most cost effective solution available today. LiveWire™ utilizes an industry standard IEEE 802.11b 2.4GHz WLAN (Wireless Local Area Network) interface with a data rate up to 11 Mbps. Supporting advanced wireless security modes, including WEP, WPA, WPA2 and 802.1X EAP Authentication, LiveWire™ is interoperable with industry standard Access Points and existing wireless infrastructure.

**10 Tools.  
1 Line  
Controller.**



# Security Critical Solution Available.



FCC  
ETSI

## Wireless Security

- 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 Authentication
    - LEAP, PEAP, TTLS
    - GTC, MD5, OTP, PAP, CHAP, MSCHAP, MSCHAPv2, TTLS MSCHAPv2

# All The Brains. All The Power.

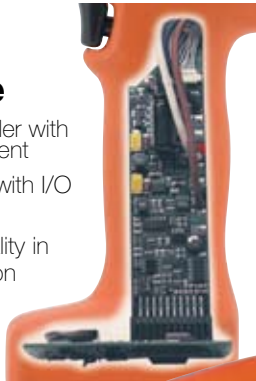
LiveWire™ offers precision torque, angle and speed control features for safety critical fastening in a lightweight, wireless design.

With up to 1,000 tightening operations per battery charge and quick charge cycles, 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-to-machine environments.

## Electronic Intelligence

- On-board controller with power management
- Integrated servo with I/O signal handling
- Corded functionality in a cordless solution



## Low vibration soft grip handle



## High Resolution Resolver

- Rotor position detection
- Angle control and monitoring for Quality Assurance
- Full range speed control for operator ergonomics



## Operator Status Display

- Configurable real-time 3 line display
- Green/Red/Yellow LCD for status
- 2 configurable application buttons
- Multiple LED status indicators

## Low compression trigger

## Battery Technology

- 26V, 1.6 Ah Li-Ion rechargeable battery
- High power-to-weight technology
- Up to 1,000 cycles per charge (hard joint)
- >900 charging cycles
- Fully charged in 1 hour



# Power. And It's Wireless.

**Solid metal construction for maximum durability**

**Integrated Bar Code Scanner** (optional)

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

**Precision Gearing**

**Configurable LED Illumination**

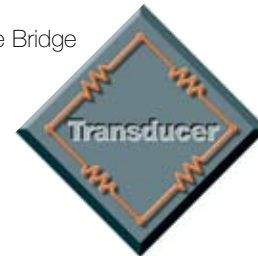
Apex Guard

**Reaction Transducer**

- Accurate detection of torque via Strain Gage Bridge
- Torque traceability of safety critical joints

**Brushless Motor**

- Superior performance with full range speed control
- Low rotor inertia for high torque accuracy



**Digital Audio Interface**

- Operator audible alarm
- Programmable sound duration



# Cleco Cordless Tool Specifications

17B Pistol Series	Torque Range		Free Speed	Weight* Less Battery		Output Drive Size	Length With Battery		Voltage
	Ft.Lbs.	Nm		lbs.	kg		in.	mm	
17BPWB05Q	2.2-3.7	3-5	1639	2.8	1.29	1/4" Hex	8.44	214.5	26
17BPWB07Q	2.2-5.2	3-7	1161	2.8	1.29	1/4" Hex	8.44	214.5	26
17BPWB09Q	2.2-6.6	3-9	887	2.8	1.29	1/4" Hex	8.44	214.5	26
17BPWB13Q	2.2-9.6	3-13	629	2.8	1.29	1/4" Hex	8.44	214.5	26

47B Angle Series	Torque Range		Free Speed	Weight* Less Battery		Output Drive Size	Length With Battery		Voltage
	Ft.Lbs.	Nm		lbs.	kg		in.	mm	
47BAWB15AM3	4.1-11.1	5.5-15	538	4.3	1.95	3/8" SQ	21.79	553.5	26
47BAWB21AM3	5.9-15.5	8-21	411	4.3	1.95	3/8" SQ	21.79	553.5	26
47BAWB28AM3	7.4-20.7	10-28	291	4.3	1.95	3/8" SQ	21.79	553.5	26
47BAWB35AM3	9.6-25.8	12-35	244	4.9	2.22	3/8" SQ	23.05	585.5	26
47BAWB50AM3	13.3-36.9	18-50	182	5.0	2.27	3/8" SQ	23.39	594.0	26
47BAXB70AH4	18-52	25-70	135	8.4	3.79	1/2" SQ	26.7	678.0	26
47BAXB105AH4	28-77	38-105	90	8.4	3.79	1/2" SQ	26.7	678.0	26

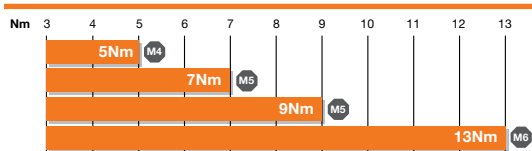
\*Weight of 26V Li-Ion battery (1.04lbs./0.47kg).

**General:** All tools must be used with an approved Cooper Power Tools line controller.

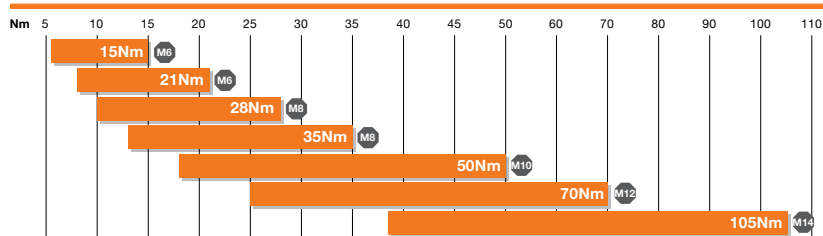
**Standard Equipment:**

One 26V Li-Ion battery. Integrated infrared communications.

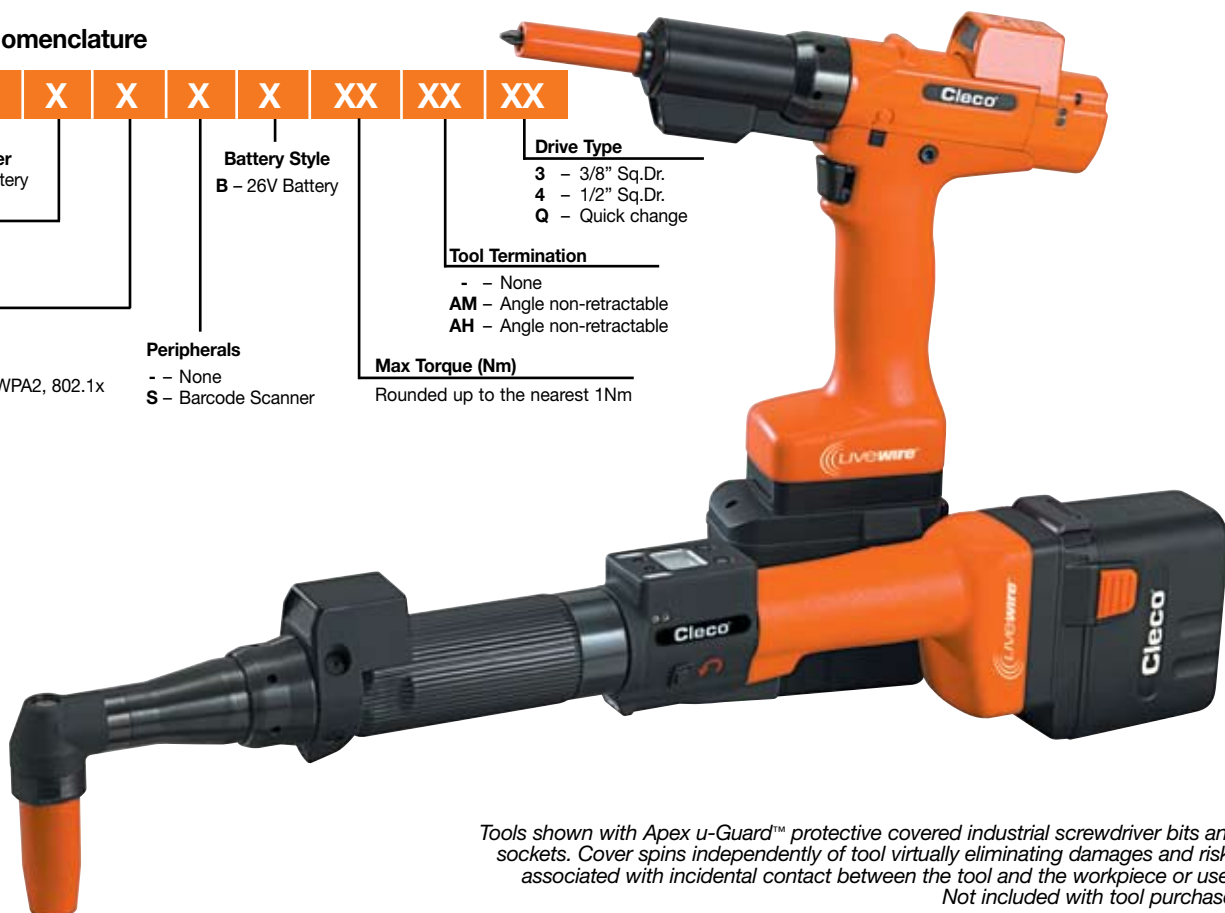
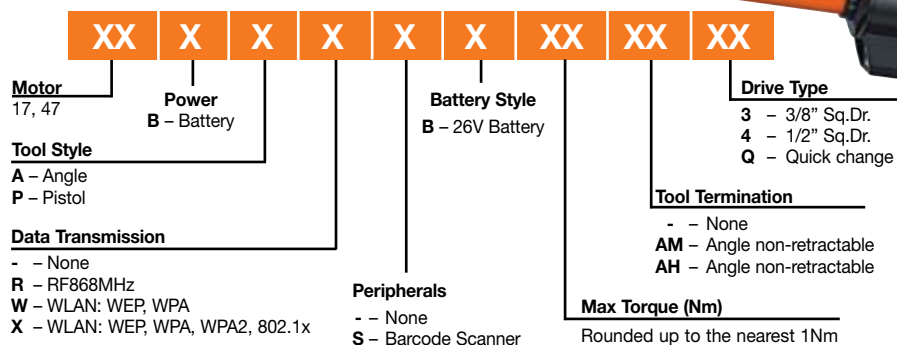
## Pistol Tool Series 3-13 Nm



## Angle Tool Series 5-105 Nm



## Cordless Tools Nomenclature



Tools shown with Apex u-Guard™ protective covered industrial screwdriver bits and sockets. Cover spins independently of tool virtually eliminating damages and risks associated with incidental contact between the tool and the workpiece or user. Not included with tool purchase.

## 1-10 Channel Line Controllers

1-10 Channel Model Number		Language
115VAC	230VAC	
TMEC-220-15-U	TMEC-220-30-U	English
TMEC-220-15-D	TMEC-220-30-D	German
TMEC-220-15-S	TMEC-220-30-S	Spanish
TMEC-220-15-P	TMEC-220-30-P	Portuguese
TMEC-220-15-F	TMEC-220-30-F	French
T3MS-14-N-15	T3M slave controller	

### Line Controller Features

- Multiple channel configuration
- Configurable 24V I/O
- Fieldbus communication options (some models)
- Ethernet TCP/IP standard
- Serial and USB ports standard
- Local data storage and troubleshooting
- High resolution color LCD (some models)
- Full programming keypad (some models)



### TMEB-COM Software

Part Number	Description
TMEB-COM-V2.03	Programming software <i>(V2.03.06 or higher)</i>

## Ethernet Switches

Part Number	Ports			Approx. Dimensions		Approx. Wt.	
	Total	In	Out	in.	mm	lbs.	kg
543444-8	8	1	7	6.5x4.5x1.5	160x110x35	0.6	0.3
543444-16	16	1	15	7x6x2.5	185x150x65	1.1	0.5
543444-24	24	1	23	10.5x7x2	270x170x50	3.0	1.3

## Ethernet Cables

Part Number	Description	Length	
		Feet	Meters
543446-7	Ethernet Crossover Cable	7	2
543445-7	Ethernet Patch Cable	7	2
543445-50	Ethernet Patch Cable	50	15
543445-100	Ethernet Patch Cable	100	30



## Tool Holders

Part No.	Description
935144	Pistol tool holder w/infrared interface
935396	Pistol tool holder
935290	Angle tool holder w/infrared interface
935395	Angle tool holder
935170	Infrared interface cable



## Tool Holder Extension Cables

Part No.	Description
935154	9' (3m) extension cable
935155	19.5' (6m) extension cable
935157	33' (10m) extension cable

## Spare Battery

Part No.	Description
935377	26V Li-Ion battery <i>(1.04lbs./0.47kg)</i>



## Battery Charger

115V Part No.	220V Part No.	Description
935391	935391	26V battery charger

- Charge time: 1 hr.
- 26V Li-Ion only
- Power/Charge/Error LED indicators



## Base Station

868 MHZ EU No.	Description
961300	Base station

Radio Range: 10-30 meters  
Max. Tools: 4



## WLAN Access Point

2.4 GHZ EU No.	2.4 GHZ NA No.	Description
961323	543995	WLAN Access Point

Radio Range: 30-50 meters  
AEEE 802.11b/g  
Max. Tools: 10



## Pistol Dead Handle

Part No.	Description
301837	Reversible handle mount



# World's First Cordless Tools For Safety Critical Fastening.



## Services & Support

Even the most durable tools need a support plan to cover maintenance. Cooper Services offers responsive customer support and maintenance services, ensuring your solution operates seamlessly and efficiently.

For more information on our wireless intelligent products, contact us at 1-800-845-5629, or visit [www.cooperpowertools.com](http://www.cooperpowertools.com).

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