Cleco[®] LiveWire[™]

Cordless Solutions for Critical Fastening





Up To 16 LiveWire™ Tools - 1 Line Controller



Contact Regional Application Center for requirements greater than 10

WLAN Technical Data/Options:

| Features | 2.4 & 5 GHz Tools with LiveWire Memory Chip 17B and 47B Series |
|----------------------------|--|
| Standard | IEEE 802.11a/b/g/h/n |
| Security | WEP • 64/128 bit encryption |
| | WPA/WPA2/802.1x 128 bit TKIP/CCMP encryption • Pre-shared key mode (PSK) LEAP, PEAP • 802.1x EAP authentication (LEAP, PEAP, TLS, TTLS, GTC, MD5, OTP, PAP, CHAP, MSCHAP, SCHAPv2, TTLS MSCHAPv2) on request |
| Range | Typically up to 164' (50 m) |
| Channels | 1 – 13 (2.401 – 2.483 GHz) 36 – 165 (5.17 - 5.825 GHz) |
| Transmission rate (power): | 15 dBm @ 5 GHz 20 dBm @ 2.4 GHz (b) |
| Sensitivity | -94 dBm (@ 1 Mbps) -80 dBm (@ 5 GHz) |
| Modulation | DSSS/OFDM |

Save Up to 50% 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 a 2.4 GHz/5 GHz WLAN (Wireless Local Area Network) interface in conjunction with the highest security encryption and authentication levels, plus a 512 cycle tool memory buffer, LiveWire delivers the industry standard in wireless connectivity and performance for your safety and production critical data transmissions.

LiveWire Cordless Tools

LiveWire & LiveWire 2 - Features & Comparison

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-to-machine environments.

LiveWire 2 offers the same precision torque, angle, and speed control features for safety critical fastening as LiveWire but in a lightweight composite housing.

LED Headlight

3 user programmable headlight settings

Operator Display

- LCD Display with real-time information
- LED Status Indicators
- Two configurable buttons

Performance

- Optimized 5 GHz performance
- Dual-Antenna system
- Uniband 3 support

Electronic Intelligence

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

LMC

The interchangeable LiveWire memory chip stores tool specific WLAN information (MAC address, IP address, SSID, etc...) that allows for easy spare tool changeover with minimal downtime

Cleco Cordless LiveWire Tools

5.5 - 90 Nm

- Up to 90 Nm capacity
- Wi-Fi & XBee communication
- Available as Angle Pistol, Straight, Tubenut & Crowfoot versions
- Standard & Platform versions





Cleco Cordless LiveWire 2 Tools

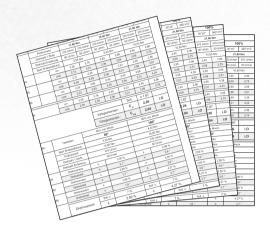
5.5 - 65 Nm

- 3/4 lbs (360 g) lighter
- Up to 65 Nm capacity
- Wi-Fi communication
- Platform versions
- Available as Angle versions

Better Performance With P-Series Angle Heads

The 'P' series of angle heads were designed to meet the rigorous production standards of the automotive industry.

Durable, precision, spiral cut gears extend preventive maintenance intervals to 500,000 cycles, nearly twice our previous design.



This design achieves a higher degree of machine capability with all tools being qualified to a Cm/Cmk value greater than 2.0 at \pm 7%.



The modular accessory platform is now standard for both the LiveWire and LiveWire 2 series tools allowing accessory modules to be added or changed without having to disassemble and reassemble the tool.



By adding an on-board gyroscope the tool is able to compensate for operator influence that might affect an angle controlled or monitored rundown.

The tool location module is used to define the work area of a tool to a specific product or area on the assembly line.





Using an on-board scanner eliminates the need for a third-party corded scanner. This allows the operator to stay in-station and select the correct application by scanning a VIN, serial number, or image, while also being able to lock out the tool in the event of an incorrect scan.



LiveWire Right Angle Series

Torque range **Bolt size** 5.5 - 90 Nm M5 - M10 4.1 - 66.4 ft-lb #10 - 7/16"

• Brushless precision motor

High-resolution resolver

Exact torque measurement by transducer

• Integrated electronic intelligence with power man agement and I/O signal processing

47BAYPB21P3

Integrated servo



Right angle nutrunner nomenclature

Input Voltage Motor **Output Drive Size B** - 26-48 V 47 **Output Drive Locking** P3 - 3/8" Sa. dr. Supply - Pin locking Peripherals spiral geared B - Batt./PM48 B - Ball locking S - Barcode scanner P4 - 1/2" Sq. dr. **Tool Version**

- None

A - Right angle

Data Transfer

Y - WLAN: Dual band 2.4 GHz, 5 GHz

Z - XBee: IEEE 802.15.4 (4 tools per access point)

spiral geared P - Expansion platform

Max. Torque (Nm)

15 - 15 Nm 48 - 48 Nm 21 - 21 Nm 70 - 70 Nm 28 - 28 Nm 90 - 90 Nm

35 - 35 Nm

| Right Angle | Torque Range | | Free Speed (RPM) | | | Weight-Le | ess Battery | Output | Length with 26 V Battery | |
|--------------|--------------|----------|------------------|------|------|-----------|-------------|------------|--------------------------|-----|
| Model Number | ft-lb | Nm | 26 V | 44 V | Vmax | lbs. | kg | Drive Size | in. | mm |
| 47BAYPB15P3 | 4.1 - 11.1 | 5.5 - 15 | 485 | 890 | 890 | 4.9 | 2.20 | 3/8" SQ | 23.0 | 585 |
| 47BAYPB21P3 | 5.9 - 15.5 | 8 - 21 | 370 | 680 | 680 | 4.9 | 2.20 | 3/8" SQ | 23.0 | 585 |
| 47BAYPB28P3 | 7.4 - 20.7 | 10 - 28 | 260 | 480 | 480 | 4.9 | 2.20 | 3/8" SQ | 23.0 | 585 |
| 47BAYPB35P3 | 8.9 - 25.8 | 12 - 35 | 255 | 445 | 445 | 5.0 | 2.25 | 3/8" SQ | 23.1 | 588 |
| 47BAYPB48P3 | 13.3 - 35.4 | 18 - 48 | 180 | 315 | 315 | 5.2 | 2.34 | 3/8" SQ | 23.6 | 600 |
| 47BAYPB70P4 | 17.7 - 51.7 | 24 - 70 | 123 | 216 | 216 | 9.2 | 4.18 | 1/2" SQ | 27.2 | 691 |
| 47BAYPB90P4 | 29.5 - 66.4 | 40 - 90 | 80 | 140 | 140 | 9.2 | 4.18 | 1/2" SQ | 27.2 | 691 |

General: All tools must be used with a suitable Cleco/DGD nutrunner controller or PC software solution. Battery weights: 26 V Li-ion battery 0.50 kg, 44 V Li-ion battery 0.85 kg. The 44 V battery is 19 mm/.750" shorter than the 26 V battery.

Optional accessories: Batteries, battery chargers, scanner, sockets and bits are not included in the standard equipment.

Extra Equipment: Sockets, batteries, and chargers must be ordered separately.



| Right Angle | Torque Range | | Free Speed (RPM) | | | Weight-Le | ss Battery | Output | Length with 26 V Battery | |
|---------------|--------------|----------|------------------|------|------|-----------|------------|------------|--------------------------|-----|
| Model Number | ft-lb | Nm | 26 V | 44 V | Vmax | lbs. | kg | Drive Size | in. | mm |
| 47BAYPB15P3L | 4.1 - 11.1 | 5.5 - 15 | 487 | 891 | 891 | 4.03 | 1.83 | 3/8" SQ | 22.87 | 581 |
| 47BAYPB21P3L | 5.9 - 15.5 | 8 - 21 | 370 | 680 | 680 | 4.03 | 1.83 | 3/8" SQ | 22.87 | 581 |
| 47BAYPB28P3L | 7.4 - 20.7 | 10 - 28 | 264 | 482 | 482 | 4.03 | 1.83 | 3/8" SQ | 22.87 | 581 |
| 47BAYPB35P3L | 8.9 - 25.8 | 12 - 35 | 255 | 446 | 446 | 4.14 | 1.88 | 3/8" SQ | 22.95 | 583 |
| 47BAYPB48P3L | 13.3 - 35.4 | 18 - 48 | 181 | 316 | 316 | 4.34 | 1.97 | 3/8" SQ | 23.46 | 596 |
| 47BAYPB65P4L* | 11.1 - 47.9 | 15 - 65 | 135 | 236 | 236 | 4.56 | 2.07 | 1/2" SQ | 23.54 | 598 |

General: All tools must be used with an approved Cleco/DGD tightening controller or suitable PC software.

The 44 V battery is 19 mm/.750" shorter than the 26 V battery.

Battery weights: 26 V Li-lon 1.1 lbs. (0.50 kg), 44 V Li-lon 1.9 lbs. (0.85 kg).

Extra Equipment: Scanner, sockets, batteries, and chargers must be ordered separately.

*Refer to service literature for maintenance schedule

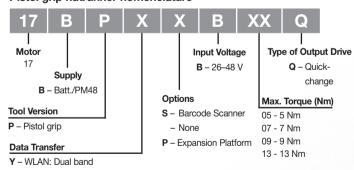


Pistol Grip Series

Torque range Bolt size 3.0 - 13 Nm M5 - M6 2.2 - 9.6 ft-lb #10 - 1/4"

- Brushless precision motor
- High-resolution resolver
- Exact torque measurement by transducer
- Integrated electronic intelligence with power management and I/O signal processing
- Integrated servo

Pistol grip nutrunner nomenclature



Z - XBee: IEEE 802.15.4 (4 tools per access point)

2.4 GHz. 5 GHz

| Pistol | Torque | Range | Fr | ee Speed (RP | M) | Weight-Le | ess Battery | Output | Height with 26 V Battery | |
|--------------|-----------|--------|------|--------------|------|-----------|-------------|------------|--------------------------|-----|
| Model Number | ft-lb | Nm | 26 V | 44 V | Vmax | lbs. | kg | Drive Size | in. | mm |
| 17BPYPB05Q | 2.2 - 3.7 | 3 - 5 | 1639 | 2428 | 2428 | 3.28 | 1.49 | 1/4" Hex | 8.44 | 215 |
| 17BPYPB07Q | 2.2 - 5.2 | 3 - 7 | 1161 | 1721 | 1721 | 3.28 | 1.49 | 1/4" Hex | 8.44 | 215 |
| 17BPYPB09Q | 2.2 - 6.6 | 3 - 9 | 887 | 1314 | 1314 | 3.28 | 1.49 | 1/4" Hex | 8.44 | 215 |
| 17BPYPB13Q | 2.2 - 9.6 | 3 - 13 | 629 | 931 | 931 | 3.28 | 1.49 | 1/4" Hex | 8.44 | 215 |

General: All tools must be used with an approved Cleco/DGD tightening controller or suitable PC software.

Extra Equipment: Sockets, batteries and chargers must be ordered separately.

Battery weights: 26 V Li-lon 1.1 lbs. (0.50 kg), 44 V Li-lon 1.9 lbs, (0.85 kg).

The 44 V battery is 19 mm/.750" shorter than the 26 V battery.

Inline Series



| Inline | Torque | Range | Fr | Free Speed (RPM) | | | ss Battery | Output | Length with 26 V Battery | |
|--------------|-------------|---------|------|------------------|------|------|------------|------------|--------------------------|-----|
| Model Number | ft-lb | Nm | 26 V | 44 V | Vmax | lbs. | kg | Drive Size | in. | mm |
| 47BSYB10D3 | 2.2 - 8.1 | 3 - 11 | 750 | 1375 | 1375 | 3.9 | 1.8 | 3/8" SQ | 20.3 | 516 |
| 47BSYB15D3 | 3.6 - 11.8 | 5 - 16 | 570 | 1050 | 1050 | 3.9 | 1.8 | 3/8" SQ | 20.5 | 522 |
| 47BSYB30D3 | 7.3 - 23.6 | 10 - 32 | 275 | 485 | 485 | 3.9 | 1.88 | 3/8" SQ | 20.7 | 526 |
| 47BSYB45D3 | 11.0 - 33.1 | 15 - 45 | 205 | 355 | 355 | 5.9 | 2.7 | 3/8" SQ | 23.2 | 590 |
| 47BSYB60D4 | 15.4 - 44.2 | 21 - 60 | 145 | 250 | 250 | 6.1 | 2.8 | 1/2" SQ | 23.3 | 594 |

General: All tools must be used with an approved Cleco/DGD tightening controller or suitable PC software.

Extra Equipment: Scanner, sockets, batteries, and chargers must be ordered separately.

Battery weights: 26 V Li-lon 1.1 lbs. (0.50 kg), 44 V Li-lon 1.9 lbs. (0.85 kg). The 44 V battery is 19 mm/.750" shorter than the 26 V battery.

Tube Nut Series

Torque range **Bolt size** 10 - 40 Nm M6 - M8 7.4 - 29.5 ft-lb 1/4" - 5/16"

- Brushless precision motor
- High-resolution resolver
- Exact torque measurement by transducer
- Integrated electronic intelligence with power management and I/O signal processing
- Integrated servo



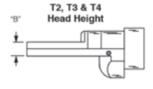


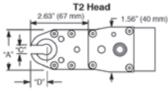


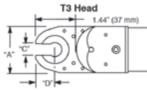


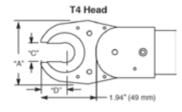
On the 47BT tube nutrunner a single lever controls the tightening of the fastener and the return of the hex socket to the open position. This flexibility paired with proven performance significantly increases productivity during assembly.











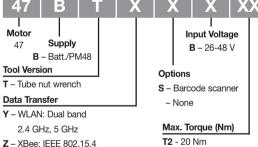
2 - Double thru hex

3 - Partial double thru hex

Tube nutrunner nomenclature

(4 tools per access point)

Socket Sizes



T3 - 30 Nm

MH - 14 mm

Socket identifier KSX XX

Head Size Type of Output Drive **KS2** – T2 **KS3** – T3 0 -Partial thru hex 1 - Thru hex **KS4** – T4

Extensions 0 - Flush 4 - 1/2" 2 - 1/4" 6 - 3/4"

Max. Hex Socket Sizes

MG, EE T2 head version MM, 3/4" T3 head version MU, 1 1/16" T4 head version 00, ## (special) All head versions MR - 24 mm (15/16")

| EA - 1/4" | M5 – 5 mm |
|------------------|------------------|
| EC - 3/8 | M6 – 6 mm |
| EE – 1/2 | MA – 7 mm |
| EF – 9/16 | MB - 8 mm (5/16) |
| FH - 11/16 | MD = 10 mm |

MI – 15 mm MJ - 16 mm (5/8") MK - 17 mm ML - 18 mm

T4 - 40 Nm

EJ – 13/16 ME - 11 mm (7/16) MM - 19 mm (3/4") MU - 27 mm (1 1/16") **EK** - 7/8 MF - 12 mm MN - 20 mm **EM** - 1 MG - 13 mm MO - 21 mm

| | Tube Nut | Torque Range | | _ | | | | | | Head | | | | | | | | | |
|---|--------------|--------------|---------|------|---------|------|------|-------|---------|--------|---------|------|-------|-------|--------|-------|-------|-------|--------|
| - | 10.00 110.0 | | | Sp | eed (RI | РМ) | Ва | ttery | Drive | 26 V E | Battery | A W | /idth | B Bla | de Ht. | C Op | ening | D End | /Cntr. |
| ١ | Model Number | ft-lb | Nm | 26 V | 44 V | Vmax | lbs. | kg | Size | in. | mm | in. | mm | in. | mm | in. | mm | in. | mm |
| | 47BTYSB20T2 | 7.4 - 14.8 | 10 - 20 | 260 | 455 | 455 | 5.6 | 2.54 | 1/2" | 23.6 | 598 | 1.42 | 36 | 0.55 | 14 | 0.28 | 7 | 0.53 | 13 |
| | 47BTYSB30T3 | 11.1 - 22.1 | 15 - 30 | 188 | 329 | 329 | 5.6 | 2.53 | 3/4" | 23.3 | 588 | 1.65 | 42 | 0.59 | 15 | 0.475 | 12 | 0.73 | 19 |
| ı | 47BTYSB40T4 | 14.8 - 29.5 | 20 - 40 | 141 | 247 | 247 | 6.4 | 2.90 | 1 1/16" | 29.9 | 612 | 2.36 | 60 | 0.59 | 15 | 0.675 | 17 | 0.93 | 24 |

MP - 22 mm

MQ - 23 mm

MS - 25 mm MT - 26 mm

General: All tools must be used with an approved Cleco/DGD tightening controller or suitable PC software.

Battery weights: 26 V Li-Ion 1.1 lbs. (0.50 kg), 44 V Li-Ion 1.9 lbs (0.85 kg) The 44 V battery is 19 mm/.750" shorter than the 26 V battery.

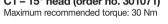
Extra Equipment: Batteries and chargers must be ordered separately.

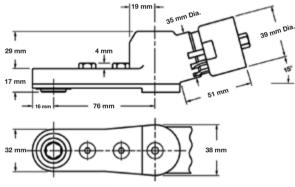
Crowfoot Series

Torque range **Bolt size** 10.5 - 30 Nm M6 - M8 7.7 - 22.1 ft-lb 1/4" - 5/16"

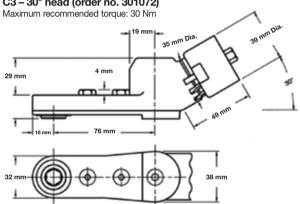
- Brushless precision motor
- High-resolution resolver
- Exact torque measurement by transducer
- Integrated electronic intelligence with power management and I/O signal processing





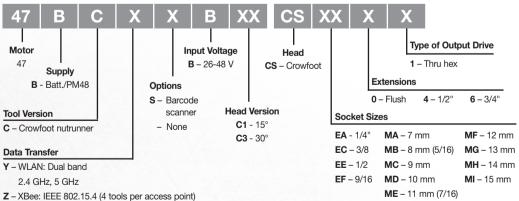






Crowfoot nutrunner nomenclature

Socket identifier



| Crowfoot | Torque | Range | Free Speed (RPM) | | | Weight-Le | ss Battery | Max Drive Size | Length with 26 V Battery | |
|--------------|------------|-----------|---------------------|------|------|-----------|------------|----------------|--------------------------|-----|
| Model Number | ft-lb | Nm | 26 V | 44 V | Vmax | lbs. | kg | mm | in. | mm |
| 47BCYSB30C1 | 7.7 - 22.1 | 10.5 - 30 | 186 | 326 | 326 | 6.12 | 2.78 | 15 | 26.3 | 667 |
| 47BCYSB30C3 | 7.7 - 22.1 | 10.5 - 30 | 186 | 326 | 326 | 6.12 | 2.78 | 15 | 26 | 660 |

General: All tools must be used with an approved Cleco/DGD tightening controller or suitable PC software.

Extra Equipment: Batteries and chargers must be ordered separately. See back page for optional accessories.

Batteries, Chargers & Power Modules

44 V Li-Ion Battery Technology

- Up to 83% faster vs. 26 V battery
- Up to 1700 rundowns per charge (hard joint)
- Life > 800 charging cycles
- On-board intelligence
- LCD Display
 - Indicates battery charge level
 - Shows total number of charge cycles
- Single tab, one-hand removal



Operational display

5 bar on-battery display for advanced feedback

Charge Cycles – Unplugged display

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

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

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



26 V/44 V Charger Technology

- Auto-sensing 26 V/44 V charger technology
- One hour charge cycle
- Auto-sensing input (85 275 VAC)
- Power/Status LEDs



| 1 LED Charger | Graphic | Status | 2 LED Battery | Graphic | Status |
|---------------------|---------|------------------------|---------------------|-----------|---|
| \circ | | Off | 0 | | Off – No battery contact |
| Lights up | 0 | Power supply connected | Lights up | | Battery is charged |
| Flash 2 Hz | | Error charger, | Flash 0,5 Hz | | Battery charging, charge state > 80% |
| Lights up | | Defect, | Flash 1 Hz | | Battery charging, charge state < 80% |
| | | | Flash 2 Hz | | – Only 44 V – |
| | | | Lights up | SS | Defekt battery, |



Cordless Accessories

Protective Tool Covers



| Order No. | Description |
|-----------|---|
| 937704PT | Protective covers for right angle tool 47BA15-28 Nm, P3+P3L Also suitable for LiveWire 2 tools |
| 937706PT | Protective covers for right angle tool 47BA35 Nm, P3 +P3L Also suitable for LiveWire 2 tools |
| 937708PT | Protective covers for right angle tool 47BA48 Nm, P3 +P3L Also suitable for LiveWire 2 tools |
| 937711PT | Protective covers for right angle tool 47BA70 Nm/90 Nm P4 |
| 936424PT | Protective covers for scanner on 47BA tools Not suitable for LiveWire 2 tools |
| 937210PT | Protective covers for display on 47BA tools Not suitable for LiveWire 2 tools |
| 936489PT | Protective covers for LiveWire pistol grip tools 17BP black |
| 942182PT | Protective covers for LiveWire pistol grip tools 17BP green |

Barcode Scanner for Platform & LiveWire 2 Tools



| Order No. | Description |
|-----------|---|
| 937240PT | Barcode scanner Class 2 for LiveWire 2 and Platform tools |

If you need a class 1 scanner please order number 961621PT

Gyroscope for Platform & LiveWire 2 Tools



| Order No. | Description | | | | |
|-----------|--|--|--|--|--|
| 942039PT | Gyroscope module for LiveWire 2 and Platform tools | | | | |

Tool Holders









| Order No. | Description |
|-----------|--|
| 935144 | Tool holder for pistol grip tools incl. IrDA |
| 935396 | Tool holder for pistol grip tools |
| 935290 | Tool holder for right angle tools up to 50 Nm incl. IrDA |
| 935395 | Tool holder for right angle tools up to 50 Nm |
| 935170 | Infrared interface with cable |
| 935998 | Tool holder for right angle tools from 70 Nm |
| 935999 | Tool holder for right angle tools from 70 Nm incl. IrDA |

Tool Suspension Bails









| 1110909 | S387983 | 942185PT | 942045PT | S387884 | | |
|-----------|---------|---|--------------------|----------------|--|--|
| Order No. | | | Description | | | |
| 1110909 | | Standard tool suspension bail (not for LiveWire 2 L Series) | | | | |
| S387983 | | Rotating suspension bail for right angle nutrunner (not for LiveWire 2 L Series) | | | | |
| S387884 | | Rotating suspension bail with bracket for right angle nutrunner (not for LiveWire 2 L Series) | | | | |
| 942045PT | Standa | ard tool suspe | nsion bail for Liv | eWire 2 L | | |
| 942185PT | Rotati | ng suspensio | n bail for LiveWi | ire 2 L Series | | |
| 301837 | Additio | onal handle fo | r Pistol Grip Too | ls | | |
| 942040PT | Reacti | on bar for Live | eWire 2 L Series | | | |

Batteries





| Order No. | Description | Column Capacity | Weight |
|-----------|-------------|-----------------|--------|
| Order No. | Description | Column Capacity | kg |
| 935377 | 26 V Li-ion | 1.6 Ah | 0.50 |
| 936400PT | 44 V Li-ion | 1.65 Ah | 0.85 |

Battery Chargers







| Order No. | Description | |
|-----------|---|--|
| 935391 | 26 V battery charger | |
| 935382 | 26 V battery charger (UK) | |
| 936491PT | 26 V/44 V battery charger | |
| 935302 | 26 V 4 unit charging station (230 VAC only) | |

Vmax PM48/PM48-LAN Power Module



| Order No. | We | ight | Width | | Length | | Depth | |
|-----------|------|------|-------|-----|--------|-----|-------|-----|
| Older No. | lbs. | kg | in. | mm | in. | mm | in. | mm |
| 961350PT | 6.8 | 3.1 | 9.4 | 240 | 4.7 | 120 | 5.9 | 150 |
| 941466PT | 8.1 | 4.0 | 0.4 | 10 | 13.4 | 340 | 5.9 | 150 |

² m power cable incl.

Vmax Cables





| Order No. | | | | |
|------------------------|------------------------------|--|--|--|
| Tool Cable Description | | | | |
| 961341-*** | Fixed connector | | | |
| 961369-060 | Right angle swivel connector | | | |
| 961342-*** | Extension cable | | | |

LiveWire I-Wrench

Precision Tightening

Our Cleco LiveWire I-Wrench is a truly universal production tool for meeting your flexible manufacturing needs. It is the perfect tool for fastening operations on your components. It is also suitable for your production line, as it enables you to use various fastening strategies with torque/angle. The patented angle measurement system, the color touchscreen and the high memory capacity of 1 GB make the Cleco LiveWire I-Wrench the most flexible and versatile torque/angle wrench on the market.





FEATURES

- Attachment quick-disconnect
- · Robust, one-piece torque beam design
- Large, bright, easy-to-read touchscreen LCD display (with optional hard screen protector)
- Optional Barcode Scanner
- LED operator feedback. Provides a visual indication of target torque
- Large, easy-touch navigation panel buttons
- Machined aluminum durable and ergonomic handle

ACCURACY

- ± 0.5% display error at 20% 100% nominal torque
- ± 1% display error at 10% 20% nominal torque
- ± 0.5° display error on the angle
- Angle resolution 0.1°

NAVIGATION

- Torque & angle data
- Graphs on the controller

Models and Accessories

I-WRENCH TORQUE & ANGLE WRENCH

with Rubber Protection, with WLAN Module, with Tool Head Recognition



| Model Name | Order No. | Order No. | Torque Range | | Output Drive | Length | | Weight | |
|----------------|---------------------------|------------------------|--------------|------------|--------------|--------|------|--------|------|
| Model Name | (without barcode scanner) | (with barcode scanner) | ft-lb | Nm | mm | in. | mm | lbs | kg |
| I-Wrench 15 | PRW-0015-0110-WI | PRW-0015-1110-WI | 1.1 - 11 | 1.5 - 15 | 9x12 | 15.47 | 393 | 1.76 | 0.80 |
| I-Wrench 30 | PRW-0030-0110-WI | PRW-0030-1110-WI | 2.2 - 22 | 3 - 30 | 9x12 | 15.47 | 393 | 1.90 | 0.86 |
| I-Wrench 70 | PRW-0070-0110-WI | PRW-0070-1110-WI | 5.2 - 52 | 7 - 70 | 9x12 | 19.61 | 498 | 2.05 | 0.93 |
| I-Wrench 100 | PRW-0100-0110-WI | PRW-0100-1110-WI | 7.4 - 74 | 10 - 100 | 9x12 | 19.61 | 498 | 2.05 | 0.93 |
| I-Wrench 200 | PRW-0200-0110-WI | PRW-0200-1110-WI | 14.8 - 148 | 20 - 200 | 14x18 | 24.76 | 629 | 3.31 | 1.50 |
| I-Wrench 300 | PRW-0300-0110-WI | PRW-0300-1110-WI | 22.2 - 222 | 30 - 300 | 14x18 | 30.67 | 779 | 4.10 | 1.86 |
| I-Wrench 400 | PRW-0400-0110-WI | PRW-0400-1110-WI | 29.6 - 296 | 40 - 400 | 14x18 | 34.61 | 879 | 4.41 | 2.00 |
| I-Wrench 600 | PRW-0600-0110-WI | PRW-0600-1110-WI | 44.4 - 444 | 60 - 600 | 14x18 | 41.61 | 1057 | 8.05 | 3.65 |
| I-Wrench 800* | PRW-0800-0110-WI | PRW-0800-1110-WI | 59.2 - 592 | 80 - 800 | Ø 20 | 52.36 | 1330 | 11.24 | 5.10 |
| I-Wrench 1000* | PRW-1000-0110-WI | PRW-1000-1110-WI | 74.0 - 740 | 100 - 1000 | Ø 20 | 63.39 | 1610 | 13.78 | 6.25 |
| I-Wrench 1200* | PRW-1200-0110-WI | PRW-1200-1110-WI | 88.5 - 885 | 120 - 1200 | Ø 28 | 67.52 | 1715 | 15.43 | 7.00 |

*Does not include Tool Recognition Capabilities

I-WRENCH ACCESSORIES

| Model number | Model name | Description |
|--------------|--------------------|---|
| 313110030 | I-Wrench-DRP | Rubber protection with display protection |
| 197140013 | I-Wrench-PU | Head recognition programming unit |
| 197130020 | TAW-PSS3-RP 15/30 | Tool charging cradle for Cleco LiveWire I-Wrench 15/30 Nm with rubber protection |
| 197130021 | TAW-PSS3-RP 70/100 | Tool charging cradle for Cleco LiveWire I-Wrench 70/100 Nm with rubber protection |
| 197130022 | TAW-PSS3-RP 200 | Tool charging cradle for Cleco LiveWire I-Wrench 200 Nm with rubber protection |
| 197130023 | TAW-PSS3-RP 300 | Tool charging cradle for Cleco LiveWire I-Wrench 300 Nm with rubber protection |
| 197130024 | TAW-PSS3-RP 400 | Tool charging cradle for Cleco LiveWire I-Wrench 400 Nm with rubber protection |
| 197130025 | TAW-PSS3-RP 600 | Tool charging cradle for Cleco LiveWire I-Wrench 600 Nm with rubber protection |
| 197130026 | TAW-PSS3-RP 800 | Tool charging cradle for Cleco LiveWire I-Wrench 800 Nm with rubber protection |
| 197130027 | TAW-PSS3-RP 1,000 | Tool charging cradle for Cleco LiveWire I-Wrench 1,000 Nm with rubber protection |
| 197130028 | TAW-PSS3-RP 1,200 | Tool charging cradle for Cleco LiveWire I-Wrench 1,200 Nm with rubber protection |
| 313210042 | I-Wrench-BA | Li-lon Battery 3.7 V |
| 197140025 | I-Wrench-EC1 | External battery charger for 1 battery with J21 |
| 197990008 | I-Wrench-USB | USB cable 2 m |
| 544249PT | Access Point | WLAN Dual Band Access Point 2.4 & 5 GHz (US) incl. Antennas |
| 961506PT | Access Point | WLAN Dual Band Access Point 2.4 & 5 GHz (EU) incl. Antennas |
| 333110016 | Chip/Tag for Head | Chip/Tag for Head Recognition |

More accessories are available upon request. Please contact our Sales & Service centers.













PRW charging cradle

Rubber protective cover

Li-ion battery 3.7 V

USB cable 2 m Pr

Programming unit External charger 1 battery

Interchangeable Heads

RATCHET HEADS

| without Tool Recognition Capability (machined ready for tool recognition chip) | | | with Tool Recog | Torque Capacity | |
|---|-----------------------------|----------------------|-----------------|-----------------|------|
| Model number | Description | Torque Capacity (Nm) | Model number | Description | (Nm) |
| 197170001 | 9x12 - 1/4" | 40 | 197179001 | TR 9x12 - 1/4" | 40 |
| 197170002 | 9x12 - 3/8" | 100 | 197179002 | TR 9x12 - 3/8" | 100 |
| 197170003 | 9x12 - 1/2" | 100 | 197179003 | TR 9x12 - 1/2" | 100 |
| 197170005 | 14x18 - 1/2" | 300 | 197179005 | TR 14x18 - 1/2" | 300 |
| 197170004 | 14x18 - 3/4" | 650 | 197179004 | TR 14x18 - 3/4" | 650 |
| 197170007 | Ø 20 - 3/4" | 1050 | | | |
| 197170008 | Ø 28 - 1" 1300 | | 0 | | _ |
| 197170146 | Blank End Insert Tool 9x12 | | | | |
| 197120147 | Blank End Insert Tool 14x18 | | | | |

OPEN END HEADS

| Product No. (w/o Tool Recognition Capability) | Product No. (w/ Tool Recognition Capability) | Product Description | Torque Capacity (Nm) |
|--|---|---------------------|----------------------|
| 197170024 | 197179024 | 7 mm 9x12 | 200 |
| 197170025 | 197179025 | 8 mm 9x12 | 200 |
| 197170026 | 197179026 | 9 mm 9x12 | 200 |
| 197170027 | 197179027 | 10 mm 9x12 | 200 |
| 197170028 | 197179028 | 11 mm 9x12 | 200 |
| 197170029 | 197179029 | 12 mm 9x12 | 200 |
| 197170030 | 197179030 | 13 mm 9x12 | 200 |
| 197170031 | 197179031 | 14 mm 9x12 | 250 |
| 197170032 | 197179032 | 15 mm 9x12 | 250 |
| 197170033 | 197179033 | 16 mm 9x12 | 250 |
| 197170034 | 197179034 | 17 mm 9x12 | 250 |
| 197170035 | 197179035 | 18 mm 9x12 | 250 |
| 197170036 | 197179036 | 19 mm 9x12 | 250 |
| 197170037 | 197179037 | 13 mm 14x18 | 350 |
| 197170038 | 197179038 | 14 mm 14x18 | 350 |
| 197170039 | 197179039 | 15 mm 14x18 | 350 |
| 197170040 | 197179040 | 16 mm 14x18 | 350 |
| 197170041 | 197179041 | 17 mm 14x18 | 350 |
| 197170042 | 197179042 | 18 mm 14x18 | 350 |
| 197170043 | 197179043 | 19 mm 14x18 | 350 |
| 197170044 | 197179044 | 21 mm 14x18 | 350 |
| 197170045 | 197179045 | 22 mm 14x18 | 350 |
| 197170046 | 197179046 | 24 mm 14x18 | 350 |
| 197170047 | 197179047 | 25 mm 14x18 | 350 |
| 197170048 | 197179048 | 27 mm 14x18 | 350 |
| 197170049 | 197179049 | 30 mm 14x18 | 350 |
| 197170050 | 197179050 | 32 mm 14x18 | 350 |

More accessories are available upon request. Please contact our Sales & Service centers.

POWER TOOLS SALES & SERVICE CENTERS

Please note that all locations may not service all products. Contact the nearest Apex Tool Group Sales & Service Center for the appropriate facility to handle your service requirements.



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