

# QX LIMITLESS WiFi 6 SERIES



### Increase Efficiency

Adapt quickly to changing production demands with intuitive programming, WiFi 6 connectivity and standalone mode that simplifies setup, line rebalancing, and deployment.



### Improve Quality and Control

Ensure consistent fastening accuracy with closed-loop transducer control, real-time data monitoring, and seamless integration into MES and Fieldbus systems.



### Enhance Operator Comfort

Reduce fatigue and support high-volume use with a lightweight, balanced design and built-in reduced torque reaction system which is called Ergonomic Tightening System (ETS) to minimize torque reaction, and optional onboard scanning to streamline workflows.



### Reduce Total Cost of Ownership

Eliminate the need for multiple tools, avoid unexpected software fees, and reduce unplanned downtime with a flexible platform designed for long-term reliability and easy service.

# QX LIMITLESS WIFI 6 SERIES

The Ingersoll Rand® QX Limitless Series is a Wi-Fi 6-enabled transducerized fastening solution built for high-speed, precision assembly. It offers closed-loop torque control, real-time data, and flexible connectivity -including standalone mode - to simplify integration and boost productivity. With optional onboard accessories like barcode scanning, QX Limitless streamlines workflows and supports evolving Industry 4.0 operations.



Optional Onboard  
**Accessory bus**

**Multiple drive choices**  
quick-change  
and square drive

**Durability of trigger for 1M+ cycles with Non-Contact Trigger**

Ergonomic and **Improved operator comfort** with ergonomic and lightweight design

Optional drive modes for reduced reaction (ETS)

IQV™ single battery & charger platform

**Patented transducer control** provides traceable and accurate results

Durable DC Brushless Motor (1M+ Cycles)

WiFi 6 and 802.15.4 connectivity with the INSIGHTqcx™ controller

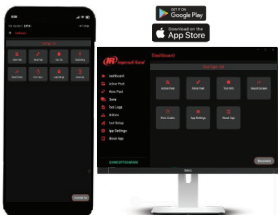
**Integrated back display** for easy programming and visual operator feedback

USB and BLE for programming using the INSIGHT™ Connect App

## FASTER, MORE RELIABLE PERFORMANCE WITH

The QX Limitless platform enhances seamless, plant-wide connectivity across a broader range where access points share the same SSID and password. Incorporating dual band communication technology, the system helps to eliminate communication breakdowns in high-traffic work zones to ensure no loss in production.

- Improved coverage and roaming sensitivity maintains stable connections to eliminate dropouts
- Low-latency data transfer to reduce processing delays and ensure faster, more reliable operation
- Dual band communication seamlessly switches between 2.4 and 5 Ghz band
- Reduces limitation of communication distance between tools and controller



### INSIGHT CONNECT APP: IMPROVE EFFICIENCY IN PROGRAMMING

- Reduced Setup Time by 50%
- Quick Parameter Changes
- INSIGHT Connect App is FREE



# CONTROLLER FEATURES



Integrated wall mount

Configure up to 256 jobs & 32 Psets per tool

### System Indicators

- Factory connection
- Wireless connection
- Link status
- Fault detected

4 USB Ports  
(2) 2.0 ports  
(2) 3.0 ports

Ethernet ports  
10/100/1000

7x7 Digital I/O

Supports:  
PFOP | FRD-OP | VW-XML  
AC-ToolsNet | Ethernet IP  
Profinet | Fieldbus

Integrated carrying handle

Holds 500,000 results and trace records

7" full-color touch screen

### MTC OPTIONS

- Up to 10 Tools per controller
- Unlock Multi tool dashboard view
- Upgradeable software
- Backwards compatibility with INSIGHTqcx™ & QX™ tools

SKU#	Tools to Pair
MTC-SW-OPT2-EU	2
MTC-SW-OPT4-EU	4
MTC-SW-OPT6-EU	6
MTC-SW-OPT10-EU	10

# MULTIPLE COMMUNICATION OPTIONS

### Direct to MES

For advanced, connected assembly lines



### INSIGHT qcx™ Controller

For decentralized control and deeper insights



### Standalone Tool Setup

with display For fast, flexible, and mobile operations



# DIRECT TO NETWORK CONNECTIVITY

**A controller-free architecture helps reduce line complexity and accelerate deployment for smarter assembly lines.**

QX Limitless eliminates the need for a dedicated controller by enabling tools to communicate directly with Manufacturing Execution Systems (MES). This streamlined setup reduces the physical footprint, accelerates deployment, and enables real-time process visibility. With Open Protocol integration, manufacturers gain enhanced traceability, simplified rebalancing, and lower infrastructure costs—all while maintaining uncompromised fastening accuracy.

- **Reduce Hardware Footprint** - Direct MES communication eliminates the need for a dedicated controller and frees up valuable floor space.
- **Faster Setup & Rebalancing** - Simplifies installation and allows tools to move easily across lines.
- **Real-Time Quality Data** - MES feedback enhances traceability and speeds up troubleshooting.
- **Lower Total Cost** - Minimizes complexity and controller-related maintenance expenses.
- **Need licence (IC-SW-PFOP)** - to activate direct communication over PFOP with MES



# SPECIFICATIONS

## QX Limitless WiFi 6 Series

Model Number	Tool Configuration	Torque Nm	Speed rpm	Weight kg	Length mm	Voltage	Drive	ETS
QXWD2PT004AQ04-EU	Pistol	0.8-4	1500	0.97	215.4	20	1/4" Quick Change	
QXWD2PT004AS04-EU	Pistol	0.8-4	1500	0.97	208.3	20	1/4" Square Drive	
QXWD2PT004AS06-EU	Pistol	0.8-4	1500	0.97	212	20	3/8" Square Drive	
QXWD2PT008RQ04-EU	Pistol	1.6-8	1150	0.97	206.3	20	1/4" Quick Change	YES
QXWD2PT008RS06-EU	Pistol	1.6-8	1150	0.97	203	20	3/8" Square Drive	YES
QXWD2PT008AS04-EU	Pistol	1.6-8	1150	0.97	208.3	20	1/4" Square Drive	
QXWD2PT012RQ04-EU	Pistol	2.4-12	750	0.97	206.3	20	1/4" Quick Change	YES
QXWD2PT012RS06-EU	Pistol	2.4-12	750	0.97	203	20	3/8" Square Drive	YES
QXWD2PT012AS04-EU	Pistol	2.4-12	750	0.97	208.3	20	1/4" Square Drive	
QXWD2PT018RQ04-EU	Pistol	3.6-18	500	0.97	203	20	3/8" Square Drive	YES
QXWD2PT018RS06-EU	Pistol	3.6-18	500	0.97	215.4	20	1/4" Quick Change	
QXWD2PT018AQ04-EU	Pistol	3.6-18	500	0.97	212	20	3/8" Square Drive	
QXWD2PT024RS06-EU	Pistol	5-24	330	0.97	212	20	3/8" Square Drive	YES
QXWD2AT005AQ04-EU	Angle	1-5	1213	1.15	552	20	1/4" Quick Change	
QXWD2AT010AS06-EU	Angle	2-10	936	1.19	525	20	3/8" Square Drive	
QXWD2AT015AS06-EU	Angle	3-15	56	1.19	525	20	3/8" Square Drive	
QXWD2AT018AQ04-EU	Angle	3.6-18	500	1.37	542	20	1/4" Quick Change	
QXWD2AT018AS06-EU	Angle	3.6-18	500	1.37	542	20	3/8" Square Drive	
QXWD2AT027RS06-EU	Angle	5.4-27	330	1.69	552	20	3/8" Square Drive	YES
QXWD5AT020AS06-EU	Angle	4-20	1045	2.19	577.7	40	3/8" Square Drive	
QXWD5AT030AS06-EU	Angle	6-30	775	2.19	581.8	40	3/8" Square Drive	
QXWD5AT030AS08-EU	Angle	6-30	775	2.19	581.8	40	1/2" Square Drive	
QXWD5AT035AS06-EU	Angle	7-35	640	2.19	581.8	40	3/8" Square Drive	
QXWD5AT035AS08-EU	Angle	7-35	640	2.19	581.8	40	1/2" Square Drive	
QXWD5AT040RS08-EU	Angle	8-40	545	2.28	586.1	40	1/2" Square Drive	YES
QXWD5AT080RS08-EU	Angle	12-80	375	2.28	586.1	40	1/2" Square Drive	YES
QC-SCANNER-1-W	Barcode Scanner - Compatible with 20V and 40V QX Limitless WiFi 6 Series Tools							
IC-SW-PFOP	PFOP LICENCE FOR QXW TOOLS							

## ACCESSORIES



**IQV40 Series 40V, 2.5Ah Battery Charger**  
BC1161-EU



**IQV40 Series 40V, 2.5Ah Lithium Ion Battery Pack**  
BL4011



**IQV20 Series 20V Battery Charger**  
BC1124-EU



**IQV20 Series 20V, 5.0Ahr Lithium Ion Battery Pack**  
BL2022



**IQV20 Series 20V, 2.5Ahr Lithium Ion Battery Pack**  
BL2012



**2.5Ah Battery Boot**  
BL2005-BOOT



**5.0Ah Battery Boot**  
BL2010-BOOT



**QXA-2P-BOOT-RD**  
Protective cover for QXW Accessory Bus Models



**Pistol Tool Suspension Bale**  
VP1-365

## Onboard Barcode Scanner (QC-SCANNER-1-W)



Unlock more flexibility and ease of use with accessories that meet your specific application needs. QX Limitless is compatible with plug-and-play accessories, such as the Onboard Barcode Scanner, to maximize your manufacturing line's productivity.

- Optimize processes and eliminate manual scanning steps to reduce cycle times and improve efficiency.
- Unified compatibility to operate on 20V and 40V tools.
- The scanner is compatible for both 1D and 2D barcodes.



**QX Limited WiFi  
6 Series**



Learn more at [www.irtools.com](http://www.irtools.com)

Ingersoll Rand (NYSE:IR), driven by an entrepreneurial spirit and ownership mindset, is dedicated to helping make life better for our employees, customers and communities. Customers lean on us for our technology-driven excellence in mission-critical flow creation and industrial solutions across 40+ respected brands where our products and services excel in the most complex and harsh conditions. Our employees develop customers for life through their daily commitment to expertise, productivity and efficiency.

