

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 **WiFi6**

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

GET IT ON
Google Play



Download on the
App Store



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

Holds 500,000 results and trace records

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

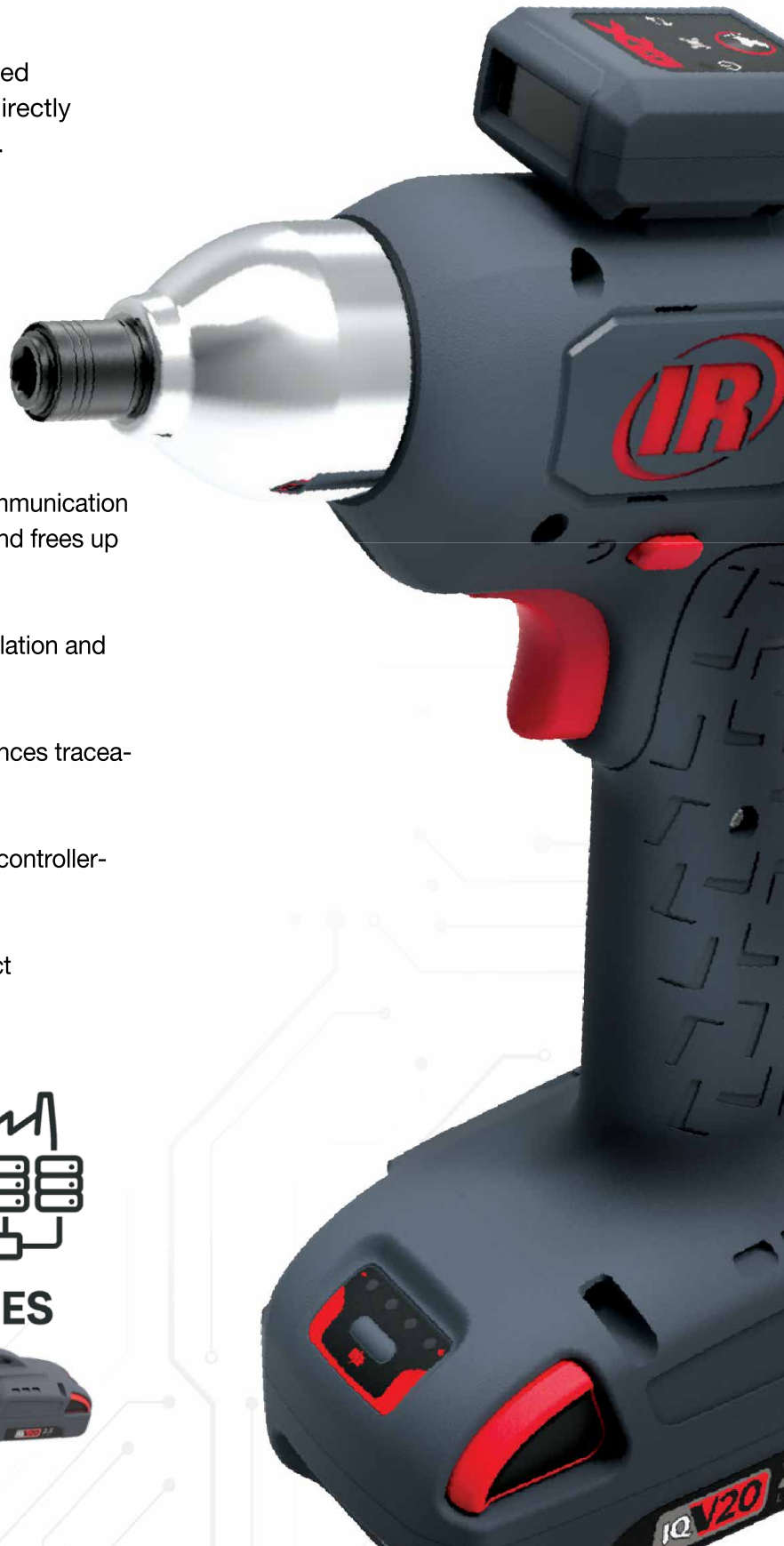


DIRECT TO NETWORK CONNECTIVITY

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



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



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

IQV20



**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 Limitless WiFi 6 Series



Learn more at www.irttools.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.

