Ingersoll Rand®

QX SERIES

PRECISION FASTENING SYSTEM

REAL TOOLS FOR REAL WORK.℠

Next-Generation Productivity.

The innovative QX Series is a revolutionary step for your entire facility, one that shows how a smarter tool can improve process control, operator comfort and data communication in a single package while increasing productivity, lowering costs and ensuring a high-quality product at the end of your line—all at a price you can afford today.

Tools that put you in total control are the future of assembly. That future is here, that future is REAL.

NOT JUST TORQUE CONTROL BUT *TOTAL* CONTROL.

Accuracy:

- Ingersoll Rand's patented closed-loop transducer control at the heart of the tool delivers precise torque and accurate, traceable results—it's precision where you need it most

Control:

- A multi-function display module allowing for quick setup and feedback on every QX Series tool
- Eight user-programmable configurations for torque, angle and speed per tool make it one tool that does the work of eight, reducing costs and workspace clutter

Comfort:

- Compact, lightweight and ergonomically balanced so the operator can work without restraints
- Cordless and compact, the QX Series is designed for safe and clean operation

Communication:

- A wireless communication option facilitated by Ingersoll Rand's dedicated Process Communication Module (PCM) helps integrate the tool and the assembly line into a true plant-wide network
- Manage data, process control and the ability to adjust tool configurations in real time using Ethernet, Fieldbus or I/O

Versatility:

- Fast programming that makes the tool adaptable to any changes on your line
- Cordless and portable that allows for movement around your facility
- Available in both pistol and angle wrench

QX Series Haz Tool
CLASS 1 DIVISION 2 CERTIFIED

QX Series Precision Screwdriver

QX Series Angle Wrenches

QX SERIES

A Technological Vision.

Ingersoll Rand's design team started with a bold idea—to engineer a new class of advanced cordless fastening tools that could deliver closed-loop, multi-configuration control and precision at an affordable price. This idea has become a reality with the QX Series.

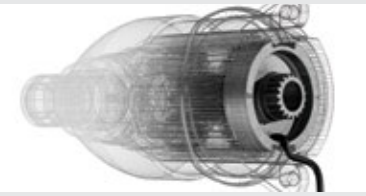
The QX Series Precision Screwdriver, Haz Tool and Angle Wrenches are designed with innovative technological features that set it apart from all other tools in the category.

The Building Blocks of Ingenious Engineering.

Control:
Multi-Function Display Module

- User-friendly display shows results and accepts programming inputs
- Up to eight user-programmable fastening configurations
- Stores cycle data for up to 1,200 rundowns

Precision:
Patented Closed-Loop Transducer



- Accurately senses torque to manage the fastening cycle
- Ultimate process control
- Advanced strategies like angle control, prevailing torque and torque monitoring

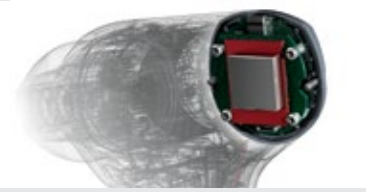
Power management:
Digital Signal Processor

- Accurately controls motor for precision fastening
- Monitors torque, angle and motor current while communicating end-of-run data
- Eliminates the need for costly external controller

Efficiency:
Advanced Power Board

- Controls DC motor to drive tools through user-programmed torque, angle and speed profiles
- Modulates power from lithium ion battery to optimize performance

Communication:
Intelligent Radio Board



- An optional feature that transmits end-of-run data wirelessly to the Process Communication Module (PCM)
- PCM transmits data to database or assembly line control system via Ethernet, Fieldbus or I/O

Durability:
DC Brushless Motor

- Drives QX Series precision power train
- No brushes to wear out or leave carbon residue
- Efficient rare earth magnet motor designed for more than a million cycles

QX SERIES

Engineering The Future.

Patented transducer control provides traceable results

USB port for convenient programming and data transfer

Precision planetary gears for greater reliability

Multiple drive choices 1/4″ quick-change, 1/4″ square drive, or 3/8″ square drive and 1/2″ square drive on high torque angle wrenches

Durable DC brushless motor tested beyond a million cycles

Super bright LED headlight with programmable on and off times. (Not available on the QX Series Angle Wrench.)

Optional wireless communications for process control with I/O and data collections

Non-contacting trigger and reverse switch for maximum durability (patent-pending)

High strength, impact resistant lens guards against damage

Ergonomic design comfortable, lightweight and balanced

Backlit display offers quick set-up and remarkable visual feedback

Lithium Ion Battery provides maximum run time and portability

A Plant-Wide Network for Plant-Wide Productivity.

Ingersoll Rand doesn't just give you unprecedented technology, we want to give you total control of that technology. Our Process Communication Module allows for control that translates into maximum productivity and efficiency.

10 to 1:
Every Process Communication Module can communicate with up to 10 individual QX Series tools.

When not using the wireless networking option, each QX Series tool can communicate with a computer via USB port.

QX Series Specifications

	in-lbs (Nm)		rpm	lbs (kg)*		in (mm)*		in (mm)		V	in	Communication
QX Series Cordless Precision Screwdriver												
QXX2PT04PQ4	7–35	(0.8–4)	1,500	2.0	(0.91)	8.48	(215.4)	0.8–1.0	(20.3–26.0)	20V	1/4"	Wireless Enabled
QXX2PT04PS4	7–35	(0.8–4)	1,500	2.0	(0.91)	8.20	(208.3)	0.8–1.0	(20.3–26.0)	20V	1/4"	Wireless Enabled
QXX2PT04PS6	7–35	(0.8–4)	1,500	2.0	(0.91)	8.35	(212.0)	0.8–1.0	(20.3–26.0)	20V	3/8"	Wireless Enabled
QXX2PT08PQ4	14–70	(1.6–8)	1,150	2.0	(0.91)	8.48	(215.4)	0.8–1.0	(20.3–26.0)	20V	1/4"	Wireless Enabled
QXX2PT048S4	14–70	(1.6–8)	1,150	2.0	(0.91)	8.20	(208.3)	0.8–1.0	(20.3–26.0)	20V	1/4"	Wireless Enabled
QXX2PT08PS6	14–70	(1.6–8)	1,150	2.0	(0.91)	8.35	(212.0)	0.8–1.0	(20.3–26.0)	20V	3/8"	Wireless Enabled
QXX2PT12PQ4	21–106	(2.4–12)	750	2.0	(0.91)	8.48	(215.4)	0.8–1.0	(20.3–26.0)	20V	1/4"	Wireless Enabled
QXX2PT12PS4	21–106	(2.4–12)	750	2.0	(0.91)	8.20	(208.3)	0.8–1.0	(20.3–26.0)	20V	1/4"	Wireless Enabled
QXX2PT12PS6	21–106	(2.4–12)	750	2.0	(0.91)	8.35	(212.0)	0.8–1.0	(20.3–26.0)	20V	3/8"	Wireless Enabled
QXX2PT18PQ4	32–159	(3.6–18)	500	2.0	(0.91)	8.48	(215.4)	0.8–1.0	(20.3–26.0)	20V	1/4"	Wireless Enabled
QXX2PT18PS6	32–159	(3.6–18)	500	2.0	(0.91)	8.35	(212.0)	0.8–1.0	(20.3–26.0)	20V	3/8"	Wireless Enabled
QXC2PT04PQ4	7–35	(0.8–4)	1,500	2.0	(0.91)	8.48	(215.4)	0.8–1.0	(20.3–26.0)	20V	1/4"	Via USB Cable
QXC2PT04PS4	7–35	(0.8–4)	1,500	2.0	(0.91)	8.20	(208.3)	0.8–1.0	(20.3–26.0)	20V	1/4"	Via USB Cable
QXC2PT04PS6	7–35	(0.8–4)	1,500	2.0	(0.91)	8.35	(212.0)	0.8–1.0	(20.3–26.0)	20V	3/8"	Via USB Cable
QXC2PT08PQ4	14–70	(1.6–8)	1,150	2.0	(0.91)	8.48	(215.4)	0.8–1.0	(20.3–26.0)	20V	1/4"	Via USB Cable
QXC2PT08PS4	14–70	(1.6–8)	1,150	2.0	(0.91)	8.20	(208.3)	0.8–1.0	(20.3–26.0)	20V	1/4"	Via USB Cable
QXC2PT08PS6	14–70	(1.6–8)	1,150	2.0	(0.91)	8.35	(212.0)	0.8–1.0	(20.3–26.0)	20V	3/8"	Via USB Cable
QXC2PT12PQ4	21–106	(2.4–12)	750	2.0	(0.91)	8.48	(215.4)	0.8–1.0	(20.3–26.0)	20V	1/4"	Via USB Cable
QXC2PT12PS4	21–106	(2.4–12)	750	2.0	(0.91)	8.20	(208.3)	0.8–1.0	(20.3–26.0)	20V	1/4"	Via USB Cable
QXC2PT12PS6	21–106	(2.4–12)	750	2.0	(0.91)	8.35	(212.0)	0.8–1.0	(20.3–26.0)	20V	3/8"	Via USB Cable
QXC2PT18PQ4	32–159	(3.6–18)	500	2.0	(0.91)	8.48	(215.4)	0.8–1.0	(20.3–26.0)	20V	1/4"	Via USB Cable
QXC2PT18PS6	32–159	(3.6–18)	500	2.0	(0.91)	8.35	(212.0)	0.8–1.0	(20.3–26.0)	20V	3/8"	Via USB Cable
QX Series Haz Tool												
QXX2PT12VQ4	21–106	(2.4–12)	750	2.0	(0.91)	8.48	(215.4)	0.8–1.0	(20.3–26.0)	20V	1/4"	Wireless Enabled
QXX2PT08VQ4	14–70	(1.6–8)	1150	2.0	(0.91)	8.48	(215.4)	0.8–1.0	(20.3–26.0)	20V	1/4"	Wireless Enabled
QXX2PT04VQ4	7–35	(0.8–4)	1500	2.0	(0.91)	8.48	(215.4)	0.8–1.0	(20.3–26.0)	20V	1/4"	Wireless Enabled
QXX2PT12VS6	21–106	(2.4–12)	750	2.0	(0.91)	8.35	(212.0)	0.8–1.0	(20.3–26.0)	20V	3/8"	Wireless Enabled
QXX2PT08VS6	14–70	(1.6–8)	1150	2.0	(0.91)	8.35	(212.0)	0.8–1.0	(20.3–26.0)	20V	3/8"	Wireless Enabled
QXX2PT04VS6	7–35	(0.8–4)	1500	2.0	(0.91)	8.35	(212.0)	0.8–1.0	(20.3–26.0)	20V	3/8"	Wireless Enabled
QX Series Angle Wrench												
QXX2AT05PQ4	9–44	(1.0–5)	1213	2.5	(1.14)	21.73	(552)	0.36	(9.2)	20V	1/4"	Wireless Enabled
QXX2AT10PS6	18–89	(2.0–10)	936	2.6	(1.18)	20.67	(525)	0.49	(12.5)	20V	3/8"	Wireless Enabled
QXX2AT15PS6	27–133	(3.0–15)	600	2.6	(1.18)	20.67	(525)	0.49	(12.5)	20V	3/8"	Wireless Enabled
QXX2AT18PQ4	32–159	(3.6–18)	500	2.8	(1.27)	24.34	(542)	0.51	(13)	20V	1/4"	Wireless Enabled
QXX2AT18PS6	32–159	(3.6–18)	500	2.8	(1.27)	24.34	(542)	0.51	(13)	20V	3/8"	Wireless Enabled
QXX2AT27PS6	48–239	(5.4–27)	330	3.7	(1.68)	21.73	(552)	0.67	(17)	20V	3/8"	Wireless Enabled
QXC2AT05PQ4	9–44	(1.0–5)	1213	2.5	(1.14)	21.73	(552)	0.36	(9.2)	20V	1/4"	Via USB Cable
QXC2AT10PS6	18–89	(2.0–10)	936	2.6	(1.18)	20.67	(525)	0.49	(12.5)	20V	3/8"	Via USB Cable
QXC2AT15PS6	27–133	(3.0–15)	600	2.6	(1.18)	20.67	(525)	0.49	(12.5)	20V	3/8"	Via USB Cable
QXC2AT18PQ4	32–159	(3.6–18)	500	2.8	(1.27)	24.34	(542)	0.51	(13)	20V	1/4"	Via USB Cable
QXC2AT18PS6	32–159	(3.6–18)	500	2.8	(1.27)	24.34	(542)	0.51	(13)	20V	3/8"	Via USB Cable
QXC2AT27PS6	48–239	(5.4–27)	330	3.7	(1.68)	21.73	(552)	0.67	(17)	20V	3/8"	Via USB Cable
QX Series High Torque Angle Wrench												
QXX5AT20PS06	2.95–14.75	(4.0–20)	1045	4.5	2.04	22.74	577.7	0.52	13.1	40V	3/8"	Wireless Enabled
QXX5AT30PS06	4.40–22.10	(6.0–30)	775	4.8	2.18	22.91	581.8	0.68	17.2	40V	3/8"	Wireless Enabled
QXX5AT30PS08	4.40–22.10	(6.0–30)	775	4.8	2.18	22.91	581.8	0.68	17.2	40V	1/2"	Wireless Enabled
QXX5AT35PS06	5.20–25.80	(7.0–35)	640	4.8	2.18	22.91	581.8	0.68	17.2	40V	3/8"	Wireless Enabled
QXX5AT35PS08	5.20–25.80	(7.0–35)	640	4.8	2.18	22.91	581.8	0.68	17.2	40V	1/2"	Wireless Enabled
QXX5AT40PS08	5.90–29.50	(8.0–40)	545	5.0	2.27	23.07	586.1	0.85	21.6	40V	1/2"	Wireless Enabled
QXX5AT60PS08	8.80–44.20	(12.0–60)	375	5.0	2.27	23.07	586.1	0.85	21.6	40V	1/2"	Wireless Enabled
QXC5AT20PS06	2.95–14.75	(4.0–20)	1045	4.5	2.04	22.74	577.7	0.52	13.1	40V	3/8"	Via USB Cable
QXC5AT30PS06	4.40–22.10	(6.0–30)	775	4.8	2.18	22.91	581.8	0.68	17.2	40V	3/8"	Via USB Cable
QXC5AT30PS08	4.40–22.10	(6.0–30)	775	4.8	2.18	22.91	581.8	0.68	17.2	40V	1/2"	Via USB Cable
QXC5AT35PS06	5.20–25.80	(7.0–35)	640	4.8	2.18	22.91	581.8	0.68	17.2	40V	3/8"	Via USB Cable
QXC5AT35PS08	5.20–25.80	(7.0–35)	640	4.8	2.18	22.91	581.8	0.68	17.2	40V	1/2"	Via USB Cable
QXC5AT40PS08	5.90–29.50	(8.0–40)	545	5.0	2.27	23.07	586.1	0.85	21.6	40V	1/2"	Via USB Cable
QXC5AT60PS08	8.80–44.20	(12.0–60)	375	5.0	2.27	23.07	586.1	0.85	21.6	40V	1/2"	Via USB Cable

*Weight and length do not include battery. Battery sold separately.

Configured For Versatility.

QX Series Process Communication Module (PCM)

Power Cord	BC10-CORD-US	IC-PCM-2-US	IC-PCM-2-US
Configuration		10 to 1	1 to 1
Tool Connections	Wireless tool connections	10	1
Software	ICS Connect software	•	•
Power Supply	120V AC input, 5V DC output	•	•
Communication	Ethernet to ICS	•	•
Fieldbus Options	Ethernet/IP, DeviceNet, Interbus-S, Profibus, Modbus-TCP		•
Protocols	Open Protocol, Ethernet EOR, Serial EOR		•
Printers/Devices	Serial RS232, bar code, label printing		•
I/O	8 inputs/8 outputs, with behavior assignable through ICS software, operates at 24V DC		•
I/O Power Supply	120V AC input, 24V DC output		•
Indicators	Power ON, System Ready, Wireless Activity, Ethernet Activity	•	•
Ambient Operating Conditions	0-50°C, 20/90% non-condensing humidity	•	•
Enclosure	IP52 mounted in upright vertical position	•	•
System Weight	3.0 lb (1.4 kg)	•	•
Overall Dimensions	11.5 in x 4.1 in x 8.3 in 291 mm x 103 mm x 210 mm	•	•

Process Communication Module
IC-PCM-2-US

Batteries

All QX Series IQV20 tools are compatible with both the BL2022 and BL2012 batteries. The BL2022 is optimum for longer use applications while the BL2012 is ideal for tighter spaces and reduced weight.

The new QX Series IQV40 high torque tools utilize the BL4011 40V battery for increased torque and runtime.

IQ^{V40} Series 40V, 2.5Ah Battery Charger
BC1161

IQ^{V40} Series 40V, 2.5Ah Lithium Ion Battery Pack
BL4011

IQ^{V20} Series 20V Battery Charger
BC1121

IQ^{V20} Series 20V, 5.0Ahr Lithium Ion Battery Pack
BL2022

IQ^{V20} Series 20V, 2.5Ahr Lithium Ion Battery Pack
BL2012

Accessories

Boot
VP1-Boot

Bit Selector Tray
IC-BIT-8

Socket Selector Tray
IC-Socket-8

Communication Kit
84737-Comm-Kit

Suspension Bale
VP1-365

Auxiliary Handle
VP1-A48

Selector Tray Cables
IC-19PIN-5M
IC-19PIN-10M

Torque Tester
EXTT-30

Spring Balancer
BMDS-2

Socket Kit
SK3H8

Ingersoll Rand (NYSE:IR) advances the quality of life by creating comfortable, sustainable and efficient environments. Our people and our family of brands—including Club Car®, Ingersoll Rand®, Thermo King® and Trane®—work together to enhance the quality and comfort of air in homes and buildings; transport and protect food and perishables; and increase industrial productivity and efficiency. We are a $13 billion global business committed to a world of sustainable progress and enduring results.

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