



QX SERIES™ 40V
CORDLESS TORQUE MULTIPLIER

NEXT-GENERATION PRODUCTIVITY

The next generation QX Series™ 40V Cordless Torque Multiplier, will reduce your bolting time and cost, while ensuring repeatable accuracy for all torque-critical joints. Designed with a premium Norbar® gearbox and an efficient, time-tested closed-loop transducer, the Torque Multiplier offers proven quality, control and programmable configurations to maximize your productivity.

TRACEABLE CONFIDENCE IN EVERY HIGH TORQUE FASTENING

Accuracy:

- Ingersoll Rand's 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. Automatically trace every tightening cycle to the day and minute with a persistent internal clock. Forget manual pen and paper recording.

Control:

- A multi-function display module allowing for quick setup and real time feedback on every QX Series™ tool
- User-programmable configurations such as torque, angle and gang count that reduce the number of tools needed for multiple applications

Comfort:

- Cordless and compact, the QX Series™ Torque Multiplier allows operators to move freely without the need of bulky air or hydraulic hoses, electrical cords, compressors, generators or powerpacks
- Integrated tethering ring included to safely secure the tools

Communication:

- USB standard, Bluetooth and wireless communication optional.
- Direct connect the tool to the Insight Connect app on your bluetooth enabled device.
- Data management, process control and the ability to adjust tool configurations (Ethernet, fieldbus and I/O capable)

Versatility:

- Fast programming that makes the tool adaptable to multiple applications
- Cordless and portable to allow operators to move freely around any workplace or environment
- Available in either pistol or angle configurations



ADAPTABLE TO YOUR APPLICATION

From pipeline flange bolts to truck frame assembly, the QX Series™ 40V Cordless Torque Multiplier has the range, accuracy and configurations to tackle your bolting needs. Sharing the same IQV40 Series power platform with our High Torque Angle Wrench, assembly tools, the Torque Multiplier expands our broad range of cordless bolting solutions.



Agriculture & Heavy Equipment



- Chassis & Suspension
- Wheels
- Diesel & Gas Engines
- Tracks

Infrastructure



- Bridges
- Road Ways
- Steel Structures

Oil & Gas



- Flanges
- Heat Exchangers
- High Pressure Valves

Rail



- Rail Car Manufacturing
- Locomotive Assembly
- General Maintenance

Truck & Bus



- Wheels
- Suspension
- Chassis

Wind



- Nacelles
- Gear Boxes
- General Maintenance
- Break-ins

PRECISION ENGINEERED

Closed-loop transducer control delivers precise torque and accurate, traceable results

Premium Norbar® gearbox provides proven quality and accuracy

Tethering Ring included for safety and drop prevention

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

USB port for convenient programming and data transfer

Proven QX Series™ brushless motor provides maximum durability

Cooling fan operates independent of the drive motor keeping the motor operating in high cycle, large gang count applications

Durable drop resistant steel reinforced motor housing protects against damage.

Non-contacting trigger and reverse switch maximizes durability

Ergonomic design comfortable, lightweight and balanced

Lithium Ion battery provides maximum run time and portability using power platform common to all Ingersoll Rand IQV40 cordless families

Cycle status lights and audible alarm provide instant validation during each operation
 Red – Above set high limit
 Yellow – Below set low limit
 Green – Within set range
 Blue – Active alarm condition

Backlit display offers quick set-up and easy to read visual feedback

Real time results displayed for every fastening

Bluetooth pairing to your Apple iOS or Goggle Android device

Fully integrated with the INSIGHTqcx™ Controller and INSIGHT Connect app for automatic data capture, easy results sharing and tool programming

Standard or custom reaction arms meet multiple application needs

Dual Axis 360° handle provides instant adjustability, maximizing comfort and flexibility when working on multiple joints and applications

SUPERIOR COMMUNICATION AND CONTROL

Ingersoll Rand® doesn't just give you unprecedented technology, we give you total control of that technology. With up to 32 programmable configurations per tool, the QX Series™ 40V Torque Multiplier allows operators to transition seamlessly between different bolting applications. You'll be able to use bolting strategies individually, or combined in one strategy depending on what works best for you.

COMMON BOLTING STRATEGIES

Torque

Achieve desired torque within high and low limits



Angle

Achieve target rotation within high and low limits



Gang Count

Counts all rundowns to ensure all bolts have been fastened



+ If additional control is needed, Ingersoll Rand's INSIGHTqcx Controller or Insight Connect app gives you even more options to adapt to the most complicated bolting applications.

ADVANCED COMMUNICATION OPTIONS FOR PROCESS CONTROL AND REAL-TIME MONITORING



When not using the wireless INSIGHTqcx™ Controller the optional Bluetooth enable tool can communicate with the INSIGHT™ Connect App.

Tool models without over the air communication capability can be connected via USB only.

The INSIGHT™ Connect app will help you stay productive, mobile and in control of your fastening process. It programs any Ingersoll Rand® QX Connect Series™ tool without the need for additional technical training, special software, plant network permissions or a laptop computer. Working from a smartphone or tablet, operators can use the app to quickly program the torque and angle control configurations on these closed-loop, transducerized tools.

You can quickly perform key tasks with your mobile device, including:

SIMPLE

- Common Setting & General Tool Setup
- Multiple Language Support
- Retrieve Cycle Log and Share via Email
- Audit Logs
- Error Codes with Description

FLEXIBLE

- Program All Standard QX Platform Tool
- Clone- Back Up and Restore
- Save and Load Configurations
- Firmware Update
- Virtual tool programming

CAPABLE

- Program Torque, Angle, Speed
- Multiple Configurations
- Multiple Step Programming
- End of Run (EOR) data on App
- Calibration and Cp/Cpk
- Programming via Bluetooth

QX SERIES™ 40V SPECIFICATION

QX SERIES™ 40V CORDLESS TORQUE MULTIPLIER

Model	Torq. Max (ft-lb)	Torq. Max (Nm)	Torq. Min (ft-lb)	Torq. Min (Nm)	Speed (RPM)	Weight (lbs) w/Reaction Arm, w/o Battery	Weight (kg) w/Reaction Arm, w/o Battery	Length (in)	Length (mm)	Drive Size (in)
QXBD5PT200PM12 QXXD5PT200PM12 QXFD5PT200PM12	148.5	200	29.5	40	83	13.9	6.3	15.4	390.4	3/4"
QXBD5PT500PM12 QXXD5PT500PM12 QXFD5PT500PM12	369.9	500	73.8	100	27	13.9	6.3	15.5	392.9	3/4"
QXBD5PT10CPM12 QXXD5PT10CPM12 QXFD5PT10CPM12	737.6	1000	147.5	200	15	20	9.1	16.7	422.4	3/4"
QXBD5PT13CPM16 QXXD5PT13CPM16 QXFD5PT13CPM16	995.7	1350	199.1	270	11	20	9.1	16.7	423.2	1
QXBD5PT20CPM16 QXXD5PT20CPM16 QXFD5PT20CPM16	1475.1	2000	295.0	400	6.8	21	9.5	18	456.7	1
QXBD5PT27CPM16 QXXD5PT27CPM16 QXFD5PT27CPM16	1991.4	2700	398.3	540	5.5	21	9.5	16.9	430	1
QXBD5PT40CPM16 QXXD5PT40CPM16 QXFD5PT40CPM16	2950.2	4000	590.0	800	3.3	27.5	12.5	18.9	480.3	1
QXX5A45T0180PS12	132	180	27	16	110	11.4	4.25	10.4	264	3/4"
QXX5A45T0270PS12	200	270	40	54	77	11.4	4.25	10.4	264	3/4"
QXX2A52T0396PS12	291	395	59	79	21	9.5	3.54	8.5	216	3/4"
QXX2A52T0594PS12	438	594	88	119	14	10.9	4.06	8.5	216	3/4"
QXX5A52T0880PS12	650	880	130	180	23	12.3	4.6	10.4	264	3/4"
QXX5A72T1080PS16	797	1080	160	216	19	16	5.97	10.4	264	1
QXX5A72T1620PS16	1195	1620	239	324	13	16	5.97	10.4	264	1

All models available in the following configuration:

QXX – 802.15.4 and Bluetooth

QXB – Bluetooth Only

QXF – No Wireless Functionality

MODELS



30-148 ft-lbs (40-200 nm)
74-369 ft-lbs (100-500 nm)



295-1,475 ft-lbs (400-2,000 nm)



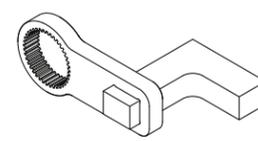
27-132 ft-lbs (16-180 nm)
40-200 ft-lbs (54-270 nm)



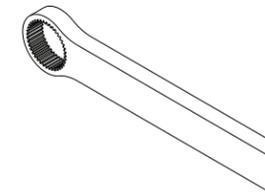
130-650 ft-lbs (180-880 nm)
160-797 ft-lbs (216-1,080 nm)
239-1,195 ft-lbs (324-1,620 nm)

REACTION ARMS

Ingersoll Rand® offers the following variety of reaction arms for different applications. Reaction arms are available in both 52 mm and 72 mm spline drives, depending on the size of the gearbox.



Cranked, 45 or 90 degrees



Straight, aluminum or steel (multiple lengths available)

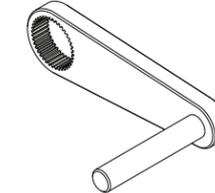
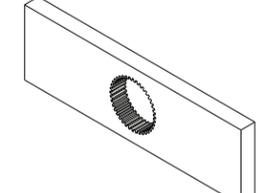
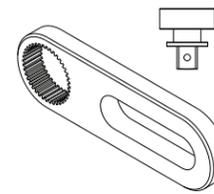


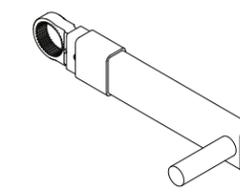
Plate and pin (multiple lengths available)



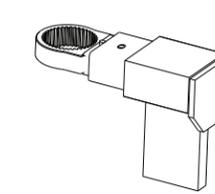
Double-sided



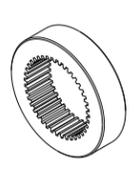
Sliding slave kit (multiple lengths available)



Sliding peg and yoke assembly (multiple lengths available)



Sliding yoke, paddle and yoke assembly (multiple lengths available)



Blank welding ring

CUSTOM REACTION ARM OPTIONS

Not all applications are equal — Ingersoll Rand offers custom reaction arms. Please see your certified distributor for more information.

POWER PLATFORM

All QX Series™ 40V high torque tools are compatible with the 2.5 Ahr 40V battery are compatible with the IQV® 40.



IQV40 Series™
Battery Charger 40V,
2.5 Ahr
BC1161



IQV40 Series™ Lithium
Ion Battery Pack 40V,
2.5 Ahr
BL4011

ACCESSORIES



Spring Balancer



INSIGHTqcx™ Controller



Hard Case



3/4" and 1" Socket Kits



Learn more at www.ingersollrand.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.

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