## (P) ingersoll Rand

QX Series ${ }^{\text {™ }}$


## Take Total Control

Taking total control of your fastening process doesn't have to be complicated. Our comprehensive QX Series ${ }^{\top M}$ family of fastening systems deliver simple, flexible and capable solutions for all of your assembly requirements. No matter the industry or application, you can count on Ingersoll Rand as a trusted partner to help you get the job done right.

## DIFFERENT, BY DESIGN



## Icon identifiers

Compatibility Reference


USB compatible

ETS

Wireless

## UPtime Program



## Ordering Fastening Systems Has Never Been Easier

New production lines, new applications and the need to have critical backup tools readily available are a part of everyday assembly environments. This creates a continuous demand for capable assembly tools with short lead times.

With our UPtime ${ }^{T M}$ program, you will have access to an extensive list of QX Series ${ }^{T M}$ products that can be delivered within one week. Ordering is fast, simple and hassle-free - finally allowing you the flexibility of swapping out components easily when you need to modify a workstation or rebalance your assembly line.

When you need it the most, UPtime will make sure your production line keeps moving - contact your local Ingersoll Rand distributor, or visit our website for details.


Contact your sales representative for a copy of our UPtime guide or visit irtools.com/UPtime

Other skus available, contact your sales representative for assistance.

## Simply Productive



## QX Series ${ }^{\text {TM }}$ Features



## How to Select the Right Tool

When it comes to fastening, non-transducerized tools don't stand a chance. The QX Series ${ }^{T M}$ line of products give you closed-loop control of your fastening process. Each and every tool allows for programmable tightening strategies to deliver higher quality fastened joints and a level of control that is unmatched by other solutions. The diversity of the QX Series ${ }^{\text {TM }}$ lineup offers a simple, flexible and capable solution for any fastening need.

| FEATURES |
| :--- |
| Total control of torque, speed and degrees of rotation |
| One tightening configuration that is programmed via USB |
| using the INSIGHT Connect app |
| Programming capability via USB using ICS software |

## QXN Series Cordless Tools

QXN offers superior transducerized control and operator feedback in a way that is easy to use and simple to setup. This unique series features one tightening configuration that can be programmed via USB using the INSIGHT Connect app.


## Features

- One tightening configuration
- Transducerized for precise torque measurement
- Closed-loop control of torque, speed and degrees of rotation

■ Simple to program via USB using the INSIGHT Connect app

- Visual operator feedback using green, yellow and red lights
- Programmable preventative maintenance alarms
- Maintenance indicator for troubleshooting and diagnostics
- 1200 cycles of data storage - accessible via the INSIGHT Connect app


SIMPLE


FLEXIBLE


CAPABLE


See page 12 for more information or go to irtools.com/insightconnect

Visit irtools.com/qx to view spec data and request a demo

## QXC Cordless Tools

The versatile QXC features eight tightening configurations, giving it the ability to consolidate the number of tools needed in your bag or at your bench. This series also enhances the feedback provided from the tool by displaying the measured torque or angle result to the operator.



Visit irtools.com/qx to view spec data and request a demo

## Features

- Flexibility to utilize the same tool on multiple applications
- Program eight configurations into one tool
- Visual torque validation on display
- Transducerized for precise torque measurement
- Closed-loop control of torque, speed and degrees of rotation
- Simple to program options using the INSIGHT Connect app or back of tool programming
- Visual operator feedback using green, yellow and red lights
- Programmable preventative maintenance alarms
- Maintenance indicator for troubleshooting and diagnostics
- 1200 cycles of data storage - accessible via ICS software


FLEXIBLE


## QXX Cordless Tools




## QX ETS

Reducing the torque reaction in your fastening process doesn't have to be complicated. Control and ergonomics, not compromise - that is what the QX ETS is all about. The QX ETS offers all the capabilities found in the QX Series ${ }^{\text {M }}$ platform, without the torque reaction.

## Features

- Ergonomically enhanced motor control algorithm significantly reduces the average force experienced by the operator during the tightening process
- Red tool highlights provide clear indication of ETS tool identity vs standard QX tool
- Continuously flashing blue light above keypad provides operator assurance that ETS is ACTIVE
- All the capability of the QX platform, without the torque reaction
- Common software and battery platform for simple integration
- QXN, QXC and QXX versions available in pistol grip, low torque angle and high torque angle
- Onboard 'pulse' counter supports proper optimization and application of ETS tools on ideal applications ( 10 pulses or less per cycle)


SIMPLE


FLEXIBLE


CAPABLE


## Simple Setup

In addition to standard direct drive mode, each tool configuration can be independently programmed to utilize one of the three available single-parameter ETS modes, simplifying setup:

Ergonomic Mode, with the lowest energy pulses, is ideal for hard joints or when arm, wrist or tool angles are most difficult.

Performance Mode, with medium energy pulses, is the best all-purpose mode.

Productivity Mode, with the highest energy pulses, is the fastest mode. Ideal for soft joints or when high production rates are required.

Ingersoll Rand. IngersollRandProducts.com

## QXM Cordless Torque Multiplier

The innovative QX Series ${ }^{\top T M}$ Cordless Torque Multiplier will reduce your fastening time and cost, while ensuring repeatable accuracy for all torque-critical joints. Designed with a premium gearbox and an efficient, time-tested closed-loop transducer, the Torque Multiplier is world-class in quality, control and programmable configurations to maximize your productivity.



Visit irtools.com/qx to view spec data and request a demo

## Features

- A multi-function display module allowing for quick setup and feedback on every QX Series ${ }^{\text {mw }}$ tool
- User-programmable parameters such as torque, angle and batch count reduce the number of tools needed when multiple applications are required
- Maintenance indicator for troubleshooting and diagnostics
- Simple programming methods make the tool easily adaptable for various applications
- Pistol and angle configurations available




## INSIGHT ${ }^{\text {TM }}$ Connect App



The INSIGHT ${ }^{\text {TM }}$ Connect app will help you stay productive, mobile and in control of your fastening process. It programs any Ingersoll Rand ${ }^{\circledR}$ QX Series ${ }^{\top M}$ 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.

Once installed, the INSIGHT ${ }^{\text {TM }}$ Connect app can operate offline, so it functions in large facilities or other locations where Internet signal loss may be a problem, reducing downtime and maximizing ease of use. You can quickly perform key tasks with your mobile device, including:

- Strategy
- Torque
- Angle
- Torque + angle
- Back-up and restore tool settings
- Retrieval of tool logs and the ability to send via email for post-processing



## Customize for Specialty Applications

## QX Pistol Special Head Adapter

The QX Pistol Special Head Adapter is the perfect solution to simply increase the flexibility of your QX pistol screwdriver. Using this adapter leverages the closed-loop capability of the QX tool to the most unique applications. The adapter helps manufacturers meet the requirements of applications where restricted access requires a custom head to reach the fastener. Common applications requiring a special head adapter, include assembling aircraft wings or installing door hinges on cars and trucks.



FLEXIBLE Use your QX pistol grip tool for unique applications


## CAPABLE

Employ closed-loop control capabilities on specialty applications

## QX Series ${ }^{\text {TM }}$ Cordless Haz Tool

Haz Tool options are available for QX tools in pistol or angle configurations.
The Class 1 Division 2 certified QX Series ${ }^{\text {TM }}$ Haz Tool takes the QX Series ${ }^{\text {TM }}$ where it couldn't go before. It's 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 safe package, while increasing productivity, lowering costs and ensuring a high-quality product at the end of your line.


## 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 enables flexible line integration, remote monitoring and simple system programming that translates into maximum productivity and efficiency.

QX Series ${ }^{\text {TM }}$ Process Communication Module (PCM)
IC-PCM-2-U
Configuration 10 to 1 to 1



QX Series ${ }^{T M}$ tools can communicate with a computer via USB port and ICS Software or via mobile device with the INSIGHT Connect app.

## System Accessories

We offer a wide range of accessories that offer ease of use and flexibility to meet your specific application needs. QX Precision Fastening Systems are compatible with a variety of plug and play accessories to maximize productivity for your manufacturing line.

## Accessories for Any Application

- Battery chargers
- Socket selector trays
- Torque testers
- Battery packs
- Suspension bales
- Spring balancers
- Boots
- Auxiliary handles
- Socket kits
- Bit selector trays
- Selector tray cables


For a specific part number and ordering details, please refer to the accessories guide at irtools.com/assemblyaccessories


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 ${ }^{\ominus}$, Ingersoll Rand ${ }^{\ominus}$, Thermo King ${ }^{\oplus}$ and Trane $^{\ominus}$ —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 $\$ 14$ billion global business committed to a world of sustainable progress and enduring results.

www.ingersollrandproducts.com



