



DC Electric Fastening Systems

Different, by Design

Take Total Control

Taking total control of your fastening process doesn't have to be complicated. Our comprehensive family of DC electric 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



Ingersoll Rand® UP time 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 UP time delivery program, you will have access to an extensive list of DC electric fastening systems 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, Ingersoll Rand's UP time delivery program 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 UP time delivery guide or visit irtools.com/UPtime

*** other skus available, contact your sales representative for assistance.*

INSIGHTqc™ Controller



When trying to achieve simple manufacturing goals in a complex manufacturing world, understanding the fastening process doesn't have to be complicated. The new Ingersoll Rand® INSIGHTqc™ is different, by design. This controller is designed to be easy to use and integrate, while providing a common platform to meet your assembly requirements worldwide. The INSIGHTqc™ offers advanced tightening control and a simple user experience to improve efficiency on production lines, while getting the job done right, every time.



SIMPLE

**EXPERTISE
NOT
REQUIRED**

**WHAT DOES
THIS MEAN
TO ME?**

- Save on selection, training and installation costs
- Reduce errors and downtime
- Remove user dependencies

**HOW DOES
INGERSOLL RAND
PROVIDE VALUE?**

- Intuitive, visual programming interface
- Plug and play accessories and protocols
- Backwards capability
- Integrated backup and recovery
- Bundled controller options
- Context specific integrated HELP



FLEXIBLE

**EASILY
IMPLEMENT
CHANGE**

- Reduce line rebalancing costs
- Easy line integration
- Remove device dependency

- Web based programming use any operating system via any browser
- Meets current industry communication needs
- Adjustable to meet any tightening control requirements
- Integrated logic controls
- Easy hardware and software upgrades



CAPABLE

**MEET YOUR
REQUIREMENTS**

- Get the job right, every time
- Assurance via traceability
- Optimize your productivity

- Touch screen interface
- Industry leading cycle data storage
- Robust audit and system logs
- Advanced tightening strategies and features
- Onboard diagnostics
- Integrated statistical process controls
- Preventative maintenance alarms
- Configurable email alerts

Simply Insightful

The controller's web-based software eliminates device dependencies and enables full programming capability with any device that can run an internet browser, including smart phones, tablets or computers. The INSIGHTqc™ controller is easy to integrate with the manufacturing line, provides flexible logic controls for job sequencing and helps reduce line rebalancing costs through a simple and intuitive user interface.

INSIGHTqc Controller Features



SIMPLE



FLEXIBLE



CAPABLE

QE Series Handheld Tools

The ultimate world-class combination — QE Series tools and QC Series controllers — team up to make meeting your critical fastening requirements simple. Offering flexibility, these durable, ergonomically designed tools are easy to use — no experience needed.



SIMPLE



FLEXIBLE



CAPABLE


Features

- Torque range from 0.3 to 400 Nm
- Closed-loop transducerized control delivers excellent capability and traceability
- Compact and lightweight design
- Optional bright LED headlights illuminate work space
- Multicolored light ring and TactAlert, our tactile feedback option, provide clear operator feedback
- Seamlessly runs on any Ingersoll Rand® controller
- ESD-safe and RoHS-compliant options
- High durability cable
- Comfortable, ergonomically contoured grip
- Easy to use push-button reverse and indicator light options
- Highly configurable platform allows users to select their output torque, body style, actuation and spindle type to create the perfect tool for the application




QE Series Features






SIMPLE



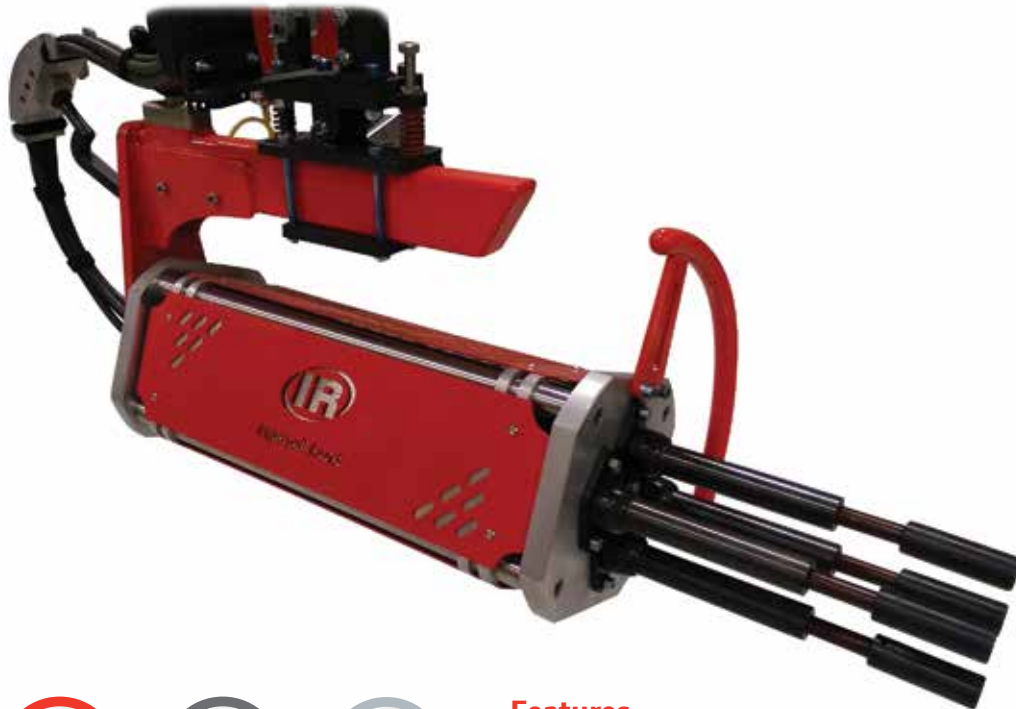
FLEXIBLE



CAPABLE

QM Series Fixtured Tools

QM Series tools are the workhorse for your fixtured spindle applications. With four motor size platforms that provide broad torque, speed and size flexibility, Ingersoll Rand® QM spindles are different, by design. They are not only simple to use, but also offers excellent versatility that enables them to deliver the highest levels of performance in the industry. This series of spindles can be used in a wide range of assembly applications and fixture designs, offering ultimate flexibility.



SIMPLE



FLEXIBLE

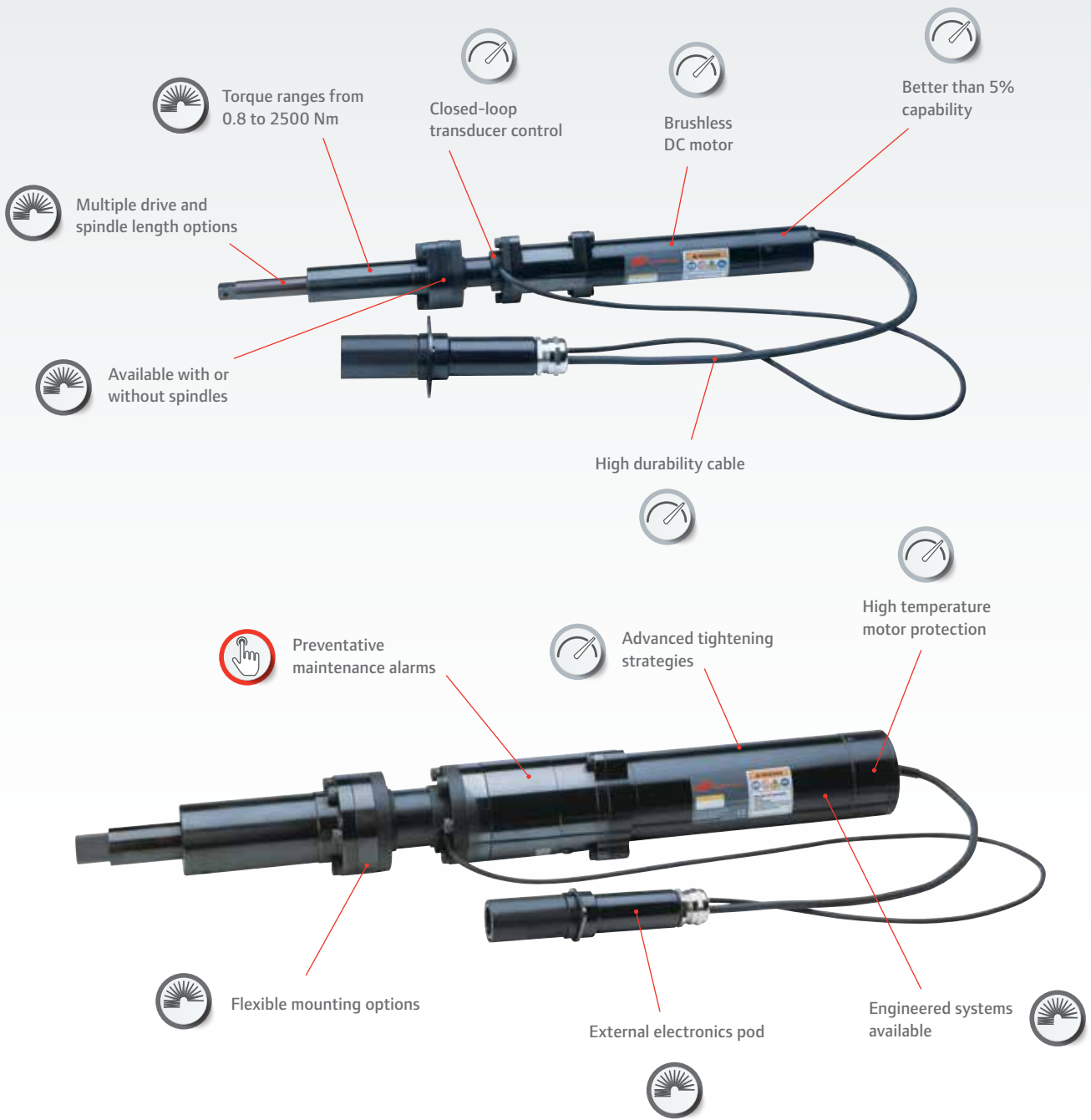



CAPABLE

Features


- Torque coverage from 0.8 to 2500 Nm
- Closed-loop transducerized control delivers better than 5% capability across all four motor platforms
- Highly durable with minimal preventive maintenance required
- Seamlessly runs on any Ingersoll Rand® controller
- Multiple mounting options provide system integration flexibility
- External electronics pod simplifies mounting and connectivity
- Onboard motor temperature sensor protects tool damage due to excessive heat
- Easy to service — no special tools required
- Highly configurable platform allows users to select output torque, body style and spindle type to create the perfect tool for the application

QM Series Features






SIMPLE



FLEXIBLE



CAPABLE

System Accessories

We offer a wide range of accessories that offer ease of use and flexibility to meet your specific application needs. The INSIGHTqc™ controller is compatible with a variety of plug and play accessories to maximize productivity for your manufacturing line. And with four onboard USB ports, up to four accessories can be used simultaneously.

Accessories for Any Application

- Socket selector trays
- 8 x 8 24 VDC USB DIO box
- Bit selector trays
- Light towers
- Bar code scanners
- USB to RS-232 serial adapter
- Mounting brackets
- Protective covers
- Reaction bars
- Extended lever kits



8 x 8 24 VDC USB DIO Box



USB to RS-232 Serial Adapter



Socket Selector Tray



Bar Code Scanners



Bit Selector Tray



Light Tower

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

Custom Solutions

Engineered to Your Unique Specifications

Custom engineered assembly solutions are available for more complex applications with requirements such as adjustable bolt centers, multiple spindles, specialized clamping, indexing, custom fixture design and automation.

Ingersoll Rand's worldwide network of solution centers can serve your 'rail-to-floor' project requirements from start to finish. Our full-range offering starts with joint analysis and process audits, then spans to system design, project management, installation and after-sales support.



Assembly Product Offerings

RAIL SYSTEMS

Enclosed rail forms the backbone of any ergonomic handling system. Ingersoll Rand® offers four enclosed rail profiles in lightweight aluminum and durable steel.

JIB CRANES

Jib cranes are perfect for short transfer applications. They use precision Ingersoll Rand-manufactured aluminum or steel rail creating an ergonomic, easy to move boom.

BALANCERS

These components allow users to both lift and 'balance' the load. This enables precise manual movement and placement with the 'jogging' required with traditional hoists.

ARM SYSTEMS

Ingersoll Rand arm systems are designed for reaching in, under and around obstacles, allowing an operator to precisely and effortlessly position loads.

HOISTS

Models available in air, electric, hydraulic and manual drives. Ingersoll Rand hoists come with a wide array of options and accessories.

PRECISION FASTENING

We offer a wide range of tools from single to multiple spindles in electric and pneumatic configurations.



SIMPLE



FLEXIBLE



CAPABLE



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 \$14 billion global business committed to a world of sustainable progress and enduring results.



www.ingersollrandproducts.com

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