

LOW-TORQUE PRECISION QUE Series

_ ELECTRICSCREWDRIVER





Efficiency. Productivity. Quality. Cost of Ownership.

LOW-TORQUE PRECISION IQI Series ELECTRIC SCREWDRIVER

Performance and Productivity.

Elevate performance and productivity on the assembly line with the IQi Series, an intelligent low-torque fastening solution that combines advanced technology, precision engineering, and intuitive design. Experience increased efficiency with faster set up, automated workflows and remote system access, while improving quality through advanced fastening strategies, real-time data traceability and the industry's first tilt angle control.

Designed to withstand over 1 million maintenance-free cycles, IQi Series minimizes downtime and maximizes productivity. From high-volume assembly to quality-critical manufacturing, IQi Series delivers unmatched efficiency, precision and reliability at a reduced total cost of ownership.

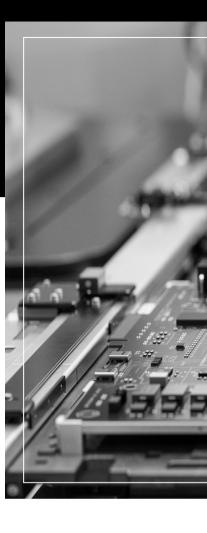


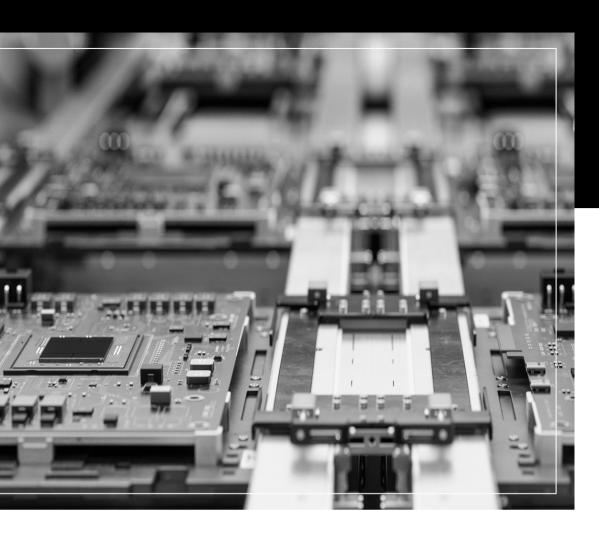
- Superior Accuracy
 Real-time torque and angle monitoring with ±3.5% precision.
- Error-Proofing Features
 Advanced torque and angle control strategies reduces tightening defects like floating screws, misalignment, and cross-threading etc.
- Complete Process Traceability

 Tightening data is recorded for compliance, audits, and quality assurance
- Industry 4.0 Ready
 Seamless integration with MES, Fieldbus, and automated workflows.

Current Control Screwdrivers

- Consistent Torque Output Maintains ±7% accuracy for repeatable results
- Optimized for Productivity
 Batch control and multi-step tightening reduce human error and cycle times compared to clutch tools.
- Ergonomic and Lightweight
 Designed for operator comfort
 and reduced fatigue.
- Cost-Effective Performance
 Ideal for consumer electronics,
 general manufacturing, and durable
 goods, where reliability and speed
 matter most.







INCREASE EFFICIENCY

- Reduce setup time by 50% reducing costly workflow interruptions with an intuitive web-based interface that eliminates the need for manual controller adjustments. Rapid deployment ensures seamless operational readiness.
- Seamless MES and Fieldbus integration automates tool and job selection, reducing manual errors and improving uptime. Operators can focus on high-value tasks for increased efficiency.

IMPROVE QUALITY

- Achieve fastening precison with 3.5% accuracy to minimize assembly errors and significantly lower rework costs with precise torque and angle control, ensuring consistent, high-quality results.
- Improve assembly quality with the industryleading tilt angle control that ensures precise tool alignment, prevents cross-threading, and maintains optimal joint integrity.

MAXIMIZE PRODUCTIVITY

- With real-time traceability, live access to production data enhances continuous quality control, enabling quick issue identification and resolution to improve productivity and compliance.
- Program troubleshoot, and monitor systems remotely. Real-time adjustments from anywhere reduce the on-site presence and operational costs while enhancing scaleability for production teams.

REDUCE TOTAL COST OF OWNERSHIP

- Designed to withstand 1 million maintenancefree cycles, reducing maintenance frequency and downtime for long-term operation efficiency.
- The robust design and durable brushless motors extend tool lifespan, minimizing replacement needs and lowering total cost of ownership.

Qi SERIES



^{*}Accuracy for Transucerized Tools is ±3.5%, while Current Control tools is ±7%.



^{*}One Ethernet Port, and one USB to Ethernet Port using an adapter.

IQi Series Advanced Features

Advanced Tightening Control

Program advanced torque, angle, prevailing torque and seating torque strategies.

Benefit: Operators can detect and prevent common tightening errors in real-time, reducing time consuming rework and quality costs.



Tilt Angle Control

With the first configurable tilt angle control in the industry, program the working limit to ensure precise tool alignment at the correct angle against the joint

Benefit: Ensures each fastener is applied with optimal tool alignment to eliminate cross-threading, prevent joint damage and minimizing costly rework.





iQ Stop: The advanced shiftdown mode by Ingersoll Rand® delivers a seamless transition from rundown speed to final tightening speed without stopping

Benefit: Compared to traditional shiftdown methods, iQ Stop redefines fastening by providing a faster, more efficient and highly accurate tightening process, helping manufacturers maximize output without compromising quality

Why iQ Stop?

- Instant Transition No pauses, just smooth controlled speed adjustments.
- Faster Cycle Times Boosts productivity by reducing fastening time.
- High Accuracy Ensures precise torque application with reduced overshoot.
- Optimized for Efficiency Designed for high-speed assembly lines where every second matters.

^{*}Tested under lab conditions

Software







User Management



Web-Based **Programming**



- Quick navigation to set up PSET and Job
- High-fidelity Cycle Results display
- Logic rules for JOB sequencing
- Advanced shiftdown strategies
- Life Trace transfer

- Tilt Angle Control
- Barcode function: USB, Serial, Ethernet
- Unrestricted programming from controller or web browser
- Embedded, context specific help
- Multi-language support

Onboard Data Storage

- Removable SSD card stores ALL settings and data
- Complete controller settings and data recovery through SSD swap
- Full USB backup and restore function

Tightening Results

Connectivity

MES Protocol **Options**

Ethernet IP, ProfiNet

MES Protocol **Options**

Open Protocol, ToolsNet

Hardware



Boot Time



Tool Familes Transducerized & **Current Control**



USB 2.0 x 2

USB 3.0 x 2



Full-color Capacitative **Touch Screen**



Ethernet Port



Serial Port

IQi Series Specifications

Transducerized Inline Screwdriver Specifications

| Activation | Model Number | Power Supply | Torque Nm | Torque in-lbs | RPM | Weight g | Weight lbs | Drive Type | Length mm | Length in |
|-------------------------------|-----------------|-----------------|--------------|------------------|---------|-------------|---------------|---------------|--------------|--------------|
| | IQI2LT0017TQ4 | IQI-PS-1 | 0.02-0.17 | 0.17-1.5 | 50-1500 | 420 | 1.01 | 1/4" QC | 243 | 9.57 |
| | IQI2LT0017TM4 | IQI-PS-1 | 0.02-0.17 | 0.17-1.5 | 50-1500 | 420 | 1.01 | Half moon | 243 | 9.57 |
| | IQI2LT0050TQ4 | IQI-PS-1 | 0.1-0.5 | 0.88-4.4 | 20-1000 | 480 | 1.01 | 1/4" QC | 243 | 9.57 |
| | IQI2LT0100TQ4 | IQI-PS-1 | 0.2-1 | 1.8-8.8 | 20-1000 | 540 | 1.01 | 1/4" QC | 243 | 9.57 |
| Lever Start | IQI2LT0200TQ4 | IQI-PS-1 | 0.4-2 | 3.5-17.7 | 20-800 | 540 | 1.01 | 1/4" QC | 243 | 9.57 |
| | IQI2LT0250TQ4 | IQI-PS-1 | 0.5-2.5 | 4.4-22.1 | 20-525 | 600 | 1.01 | 1/4" QC | 243 | 9.57 |
| | IQI4LT0500TQ4 | IQI-PS-2 | 2-5 | 17.7-44 | 20-900 | 1180 | 1.87 | 1/4" QC | 248 | 9.76 |
| | IQI4LT1000TQ4 | IQI-PS-2 | 4-10 | 35-88 | 10-500 | 1280 | 1.87 | 1/4" QC | 248 | 9.76 |
| | IQI4LT1500TQ4 | IQI-PS-2 | 5-15 | 44-133 | 10-300 | 1380 | 1.87 | 1/4" QC | 248 | 9.76 |
| | IQI2LT0017PQ4 | IQI-PS-1 | 0.02-0.17 | 0.17-1.5 | 50-1500 | 568 | 1.08 | 1/4" QC | 269 | 10.59 |
| | IQI2LT0017PM4 | IQI-PS-1 | 0.02-0.17 | 0.17-1.5 | 50-1500 | 568 | 1.08 | Half moon | 269 | 10.59 |
| | IQI12LT0050PQ4 | IQI-PS-1 | 0.1-0.5 | 0.88-4.4 | 20-1000 | 568 | 1.08 | 1/4" QC | 269 | 10.59 |
| | IQI12LT0100PQ4 | IQI-PS-1 | 0.2-1 | 1.8-8.8 | 20-1000 | 587 | 1.08 | 1/4" QC | 269 | 10.59 |
| Push To Start/ Lever Start | IQI12LT0200PQ4 | IQI-PS-1 | 0.4-2 | 3.5-17.7 | 20-800 | 587 | 1.08 | 1/4" QC | 269 | 10.59 |
| | IQI12LT0250PQ4 | IQI-PS-1 | 0.5-2.5 | 4.4-22.1 | 20-525 | 587 | 1.08 | 1/4" QC | 269 | 10.59 |
| | IQI14LT0500PQ4 | IQI-PS-2 | 2-5 | 17.7-44 | 20-900 | 1010 | 1.94 | 1/4" QC | 272 | 10.71 |
| | IQI14LT1000PQ4 | IQI-PS-2 | 4-10 | 35-88 | 10-500 | 1010 | 1.94 | 1/4" QC | 272 | 10.71 |
| | IQI14LT1500PQ4 | IQI-PS-2 | 5-15 | 44-133 | 10-300 | 1010 | 1.94 | 1/4" QC | 272 | 10.71 |

IQi Series Specifications & Accessories

Current Control Inline Screwdriver Specifications

| Activation | Model Number | Power Supply | Torque Nm | Torque in-lbs | RPM | Weight g | Weight Ibs | Drive Type | Length mm | Length in |
|-------------------------------|-----------------|-----------------|--------------|------------------|---------|-------------|---------------|---------------|--------------|--------------|
| | IQI2LC0017TQ4 | IQI-PS-1 | 0.02-0.17 | 0.17-1.5 | 50-1500 | 310 | 0.68 | 1/4" QC | 216 | 8.50 |
| | IQI2LC0017TM4 | IQI-PS-1 | 0.02-0.17 | 0.17-1.5 | 50-1500 | 310 | 0.68 | Half moon | 216 | 8.50 |
| | IQI2LC0050TQ4 | IQI-PS-1 | 0.1-0.5 | 0.88-4.4 | 20-1000 | 410 | 0.90 | 1/4" QC | 216 | 8.50 |
| | IQI2LC0100TQ4 | IQI-PS-1 | 0.2-1 | 1.8-8.8 | 20-1000 | 410 | 0.90 | 1/4" QC | 216 | 8.50 |
| Lever Start | IQI2LC0200TQ4 | IQI-PS-1 | 0.4-2 | 3.5-17.7 | 20-800 | 410 | 0.90 | 1/4" QC | 216 | 8.50 |
| | IQI2LC0250TQ4 | IQI-PS-1 | 0.5-2.5 | 4.4-22.1 | 20-525 | 410 | 0.90 | 1/4" QC | 216 | 8.50 |
| | IQI4LC0500TQ4 | IQI-PS-2 | 2-5 | 17.7-44 | 20-900 | 760 | 1.67 | 1/4" QC | 242 | 9.53 |
| | IQI4LC1000TQ4 | IQI-PS-2 | 4-10 | 35-88 | 10-500 | 760 | 1.67 | 1/4" QC | 242 | 9.53 |
| | IQI4LC1500TQ4 | IQI-PS-2 | 5-15 | 44-133 | 10-300 | 760 | 1.67 | 1/4" QC | 242 | 9.53 |
| | IQI2LC0017PQ4 | IQI-PS-1 | 0.02-0.17 | 0.17-1.5 | 50-1500 | 340 | 0.75 | 1/4" QC | 242 | 9.53 |
| | IQI2LC0017PM4 | IQI-PS-1 | 0.02-0.17 | 0.17-1.5 | 50-1500 | 340 | 0.75 | Half moon | 242 | 9.53 |
| | IQI12LC0050PQ4 | IQI-PS-1 | 0.1-0.5 | 0.88-4.4 | 20-1000 | 420 | 0.93 | 1/4" QC | 242 | 9.53 |
| | IQI12LC0100PQ4 | IQI-PS-1 | 0.2-1 | 1.8-8.8 | 20-1000 | 420 | 0.93 | 1/4" QC | 242 | 9.53 |
| Push To Start/ Lever Start | IQI12LC0200PQ4 | IQI-PS-1 | 0.4-2 | 3.5-17.7 | 20-800 | 420 | 0.93 | 1/4" QC | 242 | 9.53 |
| | IQI12LC00250PQ4 | IQI-PS-1 | 0.5-2.5 | 4.4-22.1 | 20-525 | 420 | 0.93 | 1/4" QC | 242 | 9.53 |
| | IQI14LC0500PQ4 | IQI-PS-2 | 2-5 | 17.7-44 | 20-900 | 790 | 1.74 | 1/4" QC | 263 | 9.53 |
| | IQI14LC1000PQ4 | IQI-PS-2 | 4-10 | 35-88 | 10-500 | 790 | 1.74 | 1/4" QC | 263 | 10.35 |
| | IQI14LC1500PQ4 | IQI-PS-2 | 5-15 | 44-133 | 10-300 | 790 | 1.74 | 1/4"QC | 263 | 10.35 |

Note: For the complete system, tool, controller, tool cable, and power adapter are necessary.

| Accessories | Model Number | Descripton |
|----------------|--------------|---|
| Tool Cables | IQI-CABLE-2M | IQI cable 2 meter |
| Tool Cables | IQI-CABLE-5M | IQI cable 2 meter |
| Controller | IQI11-FM | IQI Series controller with fieldbus and MES |
| 2 | IQI-PS-1 | IQI 200W Power Adapter |
| Power Adapters | IQI-PS-2 | IQI 400W Power Adapter |





Ingersoll Rand Inc. (NYSE:IR), driven by an entrepreneurial spirit and ownership mindset, is dedicated to Making Life Better for our employees, customers, shareholders, and planet. Customers lean on us for exceptional performance and durability in mission-critical flow creation and industrial solutions. Supported by over 80+ respected brands, 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. For more information, visit www.IRCO.com.