



LOW-TORQUE PRECISION

# IQi Series

ELECTRIC SCREWDRIVER



**Efficiency. Productivity. Quality.  
Cost of Ownership.**

LOW-TORQUE PRECISION

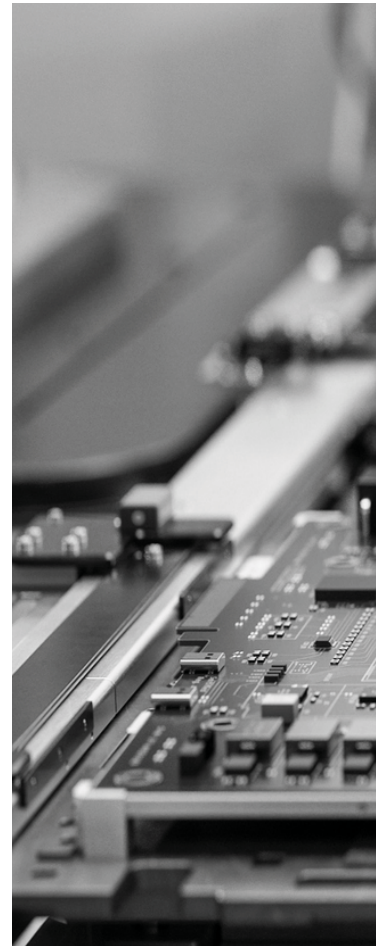
# IQi Series

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.

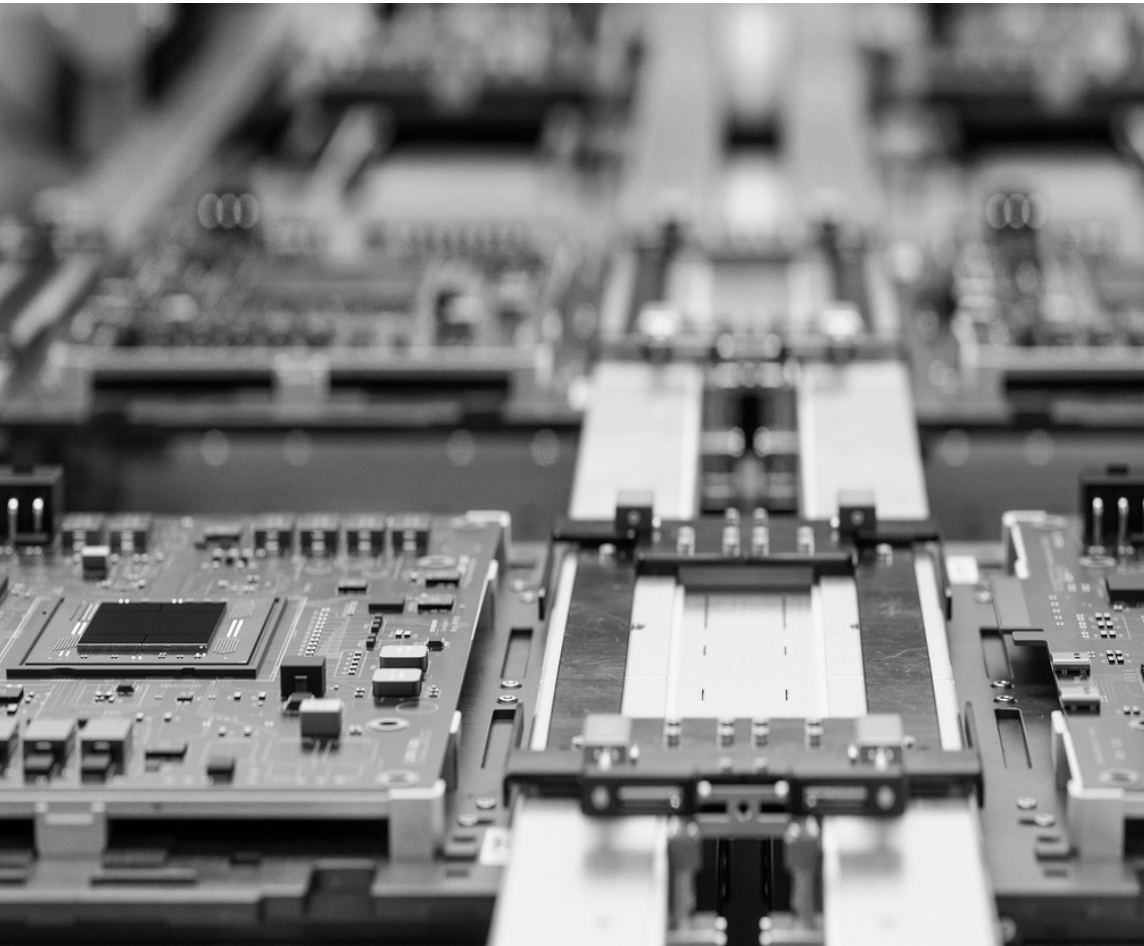


### Transducerized Screwdrivers

- **Superior Accuracy**  
Real-time torque and angle monitoring with  $\pm 3.5\%$  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  $\pm 7\%$  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.

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### IMPROVE QUALITY

- Achieve fastening precision 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 industry-leading 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 scalability for production teams.

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### REDUCE TOTAL COST OF OWNERSHIP

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

Boost precision with  $\pm 3.5\%$ \* accuracy to minimize errors and rework costs

Tilt angle control ensures precise tool alignment to prevent cross-threading

Ergonomic customizable forward and reverse lever

All Tools ESD safe

Color Identification Ring:  
Red = Transducerized  
Black = Current Control

Remote Start Function for Integrated Screwdrivers

2 Different Body Sizes  
0.02-2.5Nm  
5-15Nm

Durable brushless motor 1 million maintenance-free cycles

Rubber over mold grip for operator comfort >34mm on tools below 2.5 Nm

Gearbox designed for durability and precision

Multi-color 360-degree LED status beam:  
Red = NOK Tightening  
Green = OK Tightening  
White = Task Light  
Blue = Reverse



\*Accuracy for Transducerized Tools is  $\pm 3.5\%$ , while Current Control tools is  $\pm 7\%$ .

Remote browser support

7" color capacitive touch screen display

Integrated Ethernet, USB and Serial Ports provide flexible connections for custom line configurations

Configure up to 32 Psets and 64 jobs on a single tool

Supports quick software upgrades

Rapid software-based backup and restore



Live Trace during fastening operation

Store up to 1M fastening records for quality tracking

Intuitive user interface

7x5 Integrated digital I/Os enables effortless system integration

Integrated MES & Fieldbus Support

Modular mounting options for bench and wall mounts

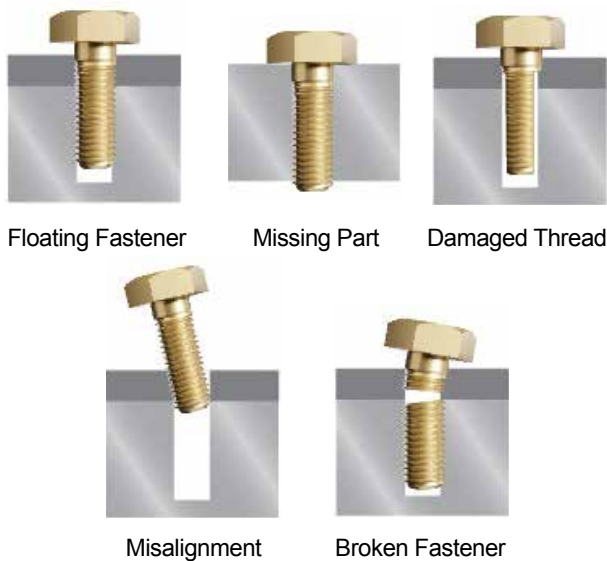
*\*One Ethernet Port, and one USB to Ethernet Port using an adapter.*

# 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



**64**  
JOBS



**32**  
PSETs



User  
Management



Web-Based  
Programming

**Not  
Required**



- PC Software
- PC License

- ✓ Quick navigation to set up PSET and Job
- ✓ High-fidelity Cycle Results display
- ✓ Logic rules for JOB sequencing
- ✓ Advanced shutdown 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

**1M**

Tightening Results

## Connectivity

**2**

MES Protocol  
Options



Ethernet IP, ProfiNet

**2**

MES Protocol  
Options



Open Protocol, ToolsNet

# Hardware



**60**sec

Boot  
Time



**2**

Tool Families  
Transducerized &  
Current Control



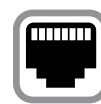
**4**

USB 2.0 x 2  
USB 3.0 x 2



**7"**

Full-color  
Capacitive  
Touch Screen



**1**

Ethernet Port



**1**

Serial Port

# IQi Series **SPECIFICATIONS**

## **TRANSDUCERIZED** INLINE SCREWDRIVER SPECIFICATIONS

<b>Activation</b>	<b>Model Number</b>	<b>Torque Nm</b>	<b>RPM</b>	<b>Weight g</b>	<b>Drive Type</b>	<b>Length mm</b>	<b>Side to Center mm</b>
<b>Lever Start</b>	IQI2LT0017TQ4	0.02-0.17	50-1500	460	1/4" QC	243	25.5
	IQI2LT0017TM4	0.02-0.17	50-1500	460	Half moon	243	25.5
	IQI2LT0050TQ4	0.1-0.5	20-1000	460	1/4" QC	243	25.5
	IQI2LT0100TQ4	0.2-1	20-1000	460	1/4" QC	243	25.5
	IQI2LT0200TQ4	0.4-2	20-800	460	1/4" QC	243	25.5
	IQI2LT0250TQ4	0.5-2.5	20-525	460	1/4" QC	243	25.5
	IQI4LT0500TQ4	2-5	20-900	850	1/4" QC	248	30.5
	IQI4LT1000TQ4	4-10	10-500	850	1/4" QC	248	30.5
	IQI4LT1500TQ4	5-15	10-300	850	1/4" QC	248	30.5
<b>Push To Start/ Lever Start</b>	IQI2LT0017PQ4	0.02-0.17	50-1500	490	1/4" QC	269	25.5
	IQI2LT0017PM4	0.02-0.17	50-1500	490	Half moon	269	25.5
	IQI2LT0050PQ4	0.1-0.5	20-1000	490	1/4" QC	269	25.5
	IQI2LT0100PQ4	0.2-1	20-1000	490	1/4" QC	269	25.5
	IQI2LT0200PQ4	0.4-2	20-800	490	1/4" QC	269	25.5
	IQI2LT0250PQ4	0.5-2.5	20-525	490	1/4" QC	269	25.5
	IQI4LT0500PQ4	2-5	20-900	880	1/4" QC	272	30.5
	IQI4LT1000PQ4	4-10	10-500	880	1/4" QC	272	30.5
	IQI4LT1500PQ4	5-15	10-300	880	1/4" QC	272	30.5

## **CURRENT CONTROL** INLINE SCREWDRIVER SPECIFICATIONS

<b>Activation</b>	<b>Model Number</b>	<b>Torque Nm</b>	<b>RPM</b>	<b>Weight g</b>	<b>Drive Type</b>	<b>Length mm</b>	<b>Side to Center mm</b>
<b>Lever Start</b>	IQI2LC0017TQ4	0.02-0.17	50-1500	310	1/4" QC	216	25.5
	IQI2LC0017TM4	0.02-0.17	50-1500	310	Half moon	216	25.5
	IQI2LC0050TQ4	0.1-0.5	20-1000	410	1/4" QC	216	25.5
	IQI2LC0100TQ4	0.2-1	20-1000	410	1/4" QC	216	25.5
	IQI2LC0200TQ4	0.4-2	10-900	410	1/4" QC	216	25.5
	IQI2LC0250TQ4	0.5-2.5	20-525	410	1/4" QC	216	25.5
	IQI4LC0500TQ4	2-5	20-900	760	1/4" QC	242	30.5
	IQI4LC1000TQ4	4-10	10-500	760	1/4" QC	242	30.5
	IQI4LC1500TQ4	5-15	10-300	760	1/4" QC	242	30.5
<b>Push To Start/ Lever Start</b>	IQI2LC0017PQ4	0.02-0.17	50-1500	340	1/4" QC	242	25.5
	IQI2LC0017PM4	0.02-0.17	50-1500	340	Half moon	242	25.5
	IQI2LC0050PQ4	0.1-0.5	20-1000	420	1/4" QC	242	25.5
	IQI2LC0100PQ4	0.2-1	20-1000	420	1/4" QC	242	25.5
	IQI2LC0200PQ4	0.4-2	10-900	420	1/4" QC	242	25.5
	IQI2LC0250PQ4	0.5-2.5	20-525	420	1/4" QC	242	25.5
	IQI4LC0500PQ4	2-5	20-900	790	1/4" QC	263	30.5
	IQI4LC1000PQ4	4-10	10-500	790	1/4" QC	263	30.5
	IQI4LC1500PQ4	5-15	10-300	790	1/4"QC	263	30.5

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

# IQi Series **ACCESSORIES**

Unlock even more flexibility and ease of use with a wide range of accessories that meet your specific application needs. **IQi Series Precision Electric Screwdrivers** are compatible with a variety of accessories that maximize your manufacturing line's productivity.



Linear Arm



Carbon Fiber Telescopic Arm



Articulated Arm

## ACCESSORIES

	Model Number	Description
<b>Articulating Arms</b>	TA19B	Articulating Torque Arm, 19 Nm Max Torque, 740mm reach, Bench Mount
	TA02B	Carbon Fiber Articulating Torque Arm, 2 Nm Max Torque, 500mm reach, Bench Mount
	TA07B	Carbon Fiber Articulating Torque Arm, 7 Nm Max Torque, 700mm reach, Bench Mount
<b>Carbon Fiber Telescopic Arms</b>	TT10W	Carbon Fiber Telescopic Torque Arm, 10 Nm Max Torque, 105mm reach, Wall Mount
	TT19W	Carbon Fiber Telescopic Torque Arm, 19 Nm Max Torque, 116mm reach, Wall Mount
	TT19B	Carbon Fiber Telescopic Torque Arm, 19 Nm Max Torque, 118mm reach, Bench Mount
	TT19B-L	Carbon Fiber Telescopic Torque Arm, 19 Nm Max Torque, 128mm reach, Bench Mount, Long Reach
<b>Linear Arms</b>	TL15B	Linear Torque Arm, 15 Nm Max Torque, 300mm reach, Bench Mount
	TL30B	Linear Torque Arm, 30 Nm Max Torque, 290 mm reach, Bench Mount

	Model Number	Description
<b>Tool Cables</b>	IQI-CABLE-2M	IQI cable 2 meter
	IQI-CABLE-5M	IQI cable 2 meter
<b>Controller</b>	IQI11-FM	IQI Series controller with fieldbus and MES
<b>Power Suppliers</b>	IQI-PS-1	Tools between 0.02-2,5 Nm
	IQI-PS-1-UK	IQI 200W Power Adapter for UK
	IQI-PS-2	Tools between 5-15 Nm
	IQI-PS-2-UK	IQI 400W Power Adapter for UK



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.