Ingersoll Rand®

Assembly Solutions

REAL TOOLS FOR REAL WORK.℠

Technical Symbols


Electric Tools

Max. chuck/collet capacity


Riveting

Stall torque

Max. free speed


Standard height of lift


Tool weight

Nominal load capacity


Barrel radius


Pad diameter


Connection pad diameter


Spiral hose stretched


Spiral hose unstretched

Max. air consumption


Connection thread

Display


Voltage


Angle head height


Floating spindle length


Floating spindle stroke


Bolt capacity


Torque range

Torque range peak


Torque range with light clutch spring


Torque range with medium clutch spring

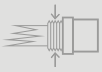

Torque range with heavy clutch spring


Drill chuck key


Handle


Piston stroke length


Piston stroke height


Air connection size


Belt sander


Communication




Tool length



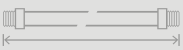

Bit holder




Side to center distance


Filter pressure


Filter


Tube length


Hex quick change (for power bits)


Hex bit holder (for power bits only)


Hex insert bit holder (for 25 mm insert bit)

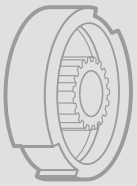

Square drive


Hex bit holder (requires bit guide or finder)

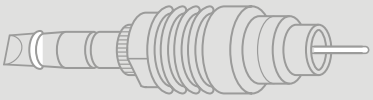
Content

Clutch selection

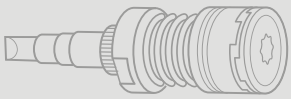
Transducer
A transducer converts strain data into torque data. Transducerized torque, angle, and speed control provide excellent accuracy as well as traceability and allow multiple configurations as well as closed-loop control.



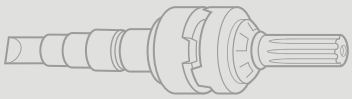
Adjustable Precision Shut-Off Clutch
Designed for critical fastening operations involving plastics, composites or metals. Recommended for applications that require precise torque control. Automatic shut-off reduces air consumption. Torque settings can easily be adjusted without disassembly of the tool.



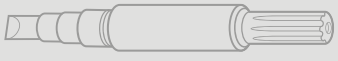
Adjustable Cushion Clutch
An excellent general purpose clutch. The Cushion Clutch Mechanism features up to 24 steel balls which provide a smooth rolling action that improves torque control, increases clutch life and minimizes vibration to the operator and work piece.

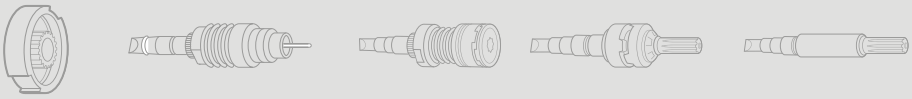


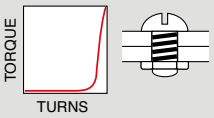
Positive Jaw Clutch
Designed for applications where driving torque may exceed final seating torque. Recommended for wood and self-tapping applications where torque requirements vary. Applied torque is controlled by the operator and output of the motor; torque output may be limited by regulating air line pressure.



Direct Drive
Designed for soft-pull applications in wood and other materials not requiring critical torque control. Applied torque is controlled by the operator and output of the motor; torque output may be limited by regulating air line pressure.







Free running-slam

Resistance low at start and during rundown but peaks suddenly as bolt head seats.

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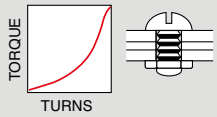

Compression gaskets

Turning resistance gradually increases as squeeze progresses to final turn.

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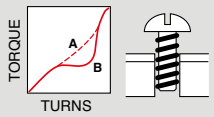

Self-tapping screws

Initial resistance high through tapping travel, easing off until sudden B or gradual A build-up for seating.

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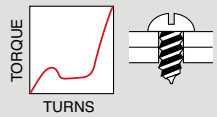

Sheet metal screws

Starting torque builds until penetration made, then resistance slacks off until head seats.

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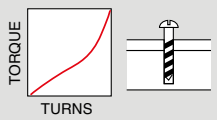

Wood screws

Low resistance at start builds gradually through entire rundown until head seats.

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Cordless Screwdrivers

At Ingersoll Rand, our design team started with a fresh vision to engineer a new class of advanced, high-tech cordless fastening tools that deliver closed-loop, multi-configuration control and precision at an affordable price. The new QX Series screwdriver and process communication module forms an assembly system for plant-wide communications that doesn't just give you torque control, but total control delivering real-time monitoring, process control and data management.

Cordless Screwdrivers

QXN Plug and Play

QXC USB Torque and Angle Control

QXX Wireless Torque and Angle Control

Cordless Screwdrivers
Series Information

QXN Series

Plug and play

- Compact, lightweight, and ergonomically balanced to work without restraintsTorque easy to set due to torque and angle transducer control
- Up to 18 Nm on pistol type and 80 Nm on angle wrench
- Speed range from 10% to 100%
- USB port to program and transfer data
- Advanced tightening strategies torque/speed/angle
- Two 20 V batteries: 2.5 Ah for lightweight or 5.0 Ah for runtime

QXN pistol

- 40 V battery for high-torque angle wrench

QXN angle wrench

QXN high torque angle wrench

- QXN kits to include one tool, one battery 2,5 Ah, and one charger

QXC Series

USB Multi-torque cordless tool

- Compact, lightweight and ergonomically balanced to work without restraints
- Designed for fastenings requiring precision, traceability, and mobility
- Torque and angle transducer control
- Up to 18 Nm on pistol type and 80 Nm on angle wrench
- Speed range from 10% to 100%
- USB port to program and transfer data
- Display to show results and quick setup

QXC pistol

- Advanced tightening strategies torque/speed/angle
- 8 users programmable

QXC angle wrench

QXC high torque angle wrench

- Two 20 V batteries: 2.5 Ah for lightweight or 5.0 Ah for runtime
- 40 V battery for high-torque angle wrench

QXX Series

Data communication with agility of cordless

- Compact, lightweight and ergonomically balanced to work without restraints
- Designed for fastenings requiring precision, traceability, and mobility
- Torque and angle transducer control
- Up to 18 Nm on pistol type and 80 Nm on angle wrench
- Speed range from 10% to 100%
- Wireless communication allows to manage data, control process and adjust tool in real time (need PCM)
- USB port to program and transfer data

QXX pistol

- Display to show results and quick setup
- Advanced tightening strategies torque/speed/angle
- 8 users programmable

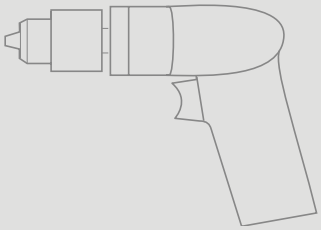
QXX angle wrench

QXX high torque angle wrench

- Two 20 V batteries: 2.5 Ah for lightweight or 5.0 Ah for runtime
- 40 V battery for high-torque angle wrench

Cordless Screwdrivers

QXN Plug and Play | Pistol



Transducer

Ref.	CCN	Nm	rpm	kg(1)	mm	mm	in		Com	V
QXN2PT04PQ4-Kit	47549941001	0.8 – 4.0	1500	1.30	215	20 – 26	¼"	–	USB cable	20
QXN2PT04PS4-Kit	47549942001	0.8 – 4.0	1500	1.30	208	20 – 26	¼"	–	USB cable	20
QXN2PT04PS6-Kit	47549943001	0.8 – 4.0	1500	1.30	212	20 – 26	⅜"	–	USB cable	20
QXN2PT08PQ4-Kit	47549938001	1.6 – 8.0	1150	1.30	215	20 – 26	¼"	–	USB cable	20
QXN2PT08PS4-Kit	47549939001	1.6 – 8.0	1150	1.30	208	20 – 26	¼"	–	USB cable	20
QXN2PT08PS6-Kit	47549940001	1.6 – 8.0	1150	1.30	212	20 – 26	⅜"	–	USB cable	20
QXN2PT12PQ4-Kit	47549935001	2.4 – 12.0	750	1.30	215	20 – 26	¼"	–	USB cable	20
QXN2PT12PS4-Kit	47549936001	2.4 – 12.0	750	1.30	208	20 – 26	¼"	–	USB cable	20
QXN2PT12PS6-Kit	47549937001	2.4 – 12.0	750	1.30	212	20 – 26	⅜"	–	USB cable	20
QXN2PT18PQ4-Kit	47549934001	3.6 – 18.0	500	1.30	215	20 – 26	¼"	–	USB cable	20
QXN2PT18PS6-Kit	47549933001	3.6 – 18.0	500	1.30	212	20 – 26	⅜"	–	USB cable	20

(1) Weight to include tool + battery weights

Cordless Screwdrivers

QXN Plug and Play | Angle

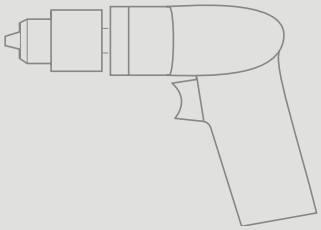
Transducer

Ref.	CCN	Nm	rpm	kg(1)	mm	mm	in		Com	V
QXN2AT05PQ4-Kit	47549932001	1.0 – 5.0	1213	1.60	552	9	¼"	–	USB cable	20
QXN2AT10PS6-Kit	47549931001	2.0 – 10.0	936	1.60	525	13	⅜"	–	USB cable	20
QXN2AT15PS6-Kit	47549930001	3.0 – 15.0	600	1.60	525	13	⅜"	–	USB cable	20
QXN2AT18PQ4-Kit	47549929001	3.6 – 18.0	500	1.70	542	14	¼"	–	USB cable	20
QXN2AT18PS6-Kit	47549928001	3.6 – 18.0	500	1.70	542	13	⅜"	–	USB cable	20
QXN5AT20PS06-Kit	47549927001	4.0 – 20.0	1045	2.70	578	13	⅜"	–	USB cable	40
QXN2AT27PS6-Kit	47550948001	5.4 – 27.0	330	2.10	552	17	⅜"	–	USB cable	20
QXN5AT30PS06-Kit	47549926001	6.0 – 30.0	775	2.90	582	17	⅜"	–	USB cable	40
QXN5AT30PS08-Kit	47549925001	6.0 – 30.0	775	2.90	582	17	½"	–	USB cable	40
QXN5AT35PS06-Kit	47549924001	7.0 – 35.0	640	2.90	582	17	⅜"	–	USB cable	40
QXN5AT35PS08-Kit	47549923001	7.0 – 35.0	640	2.90	582	17	½"	–	USB cable	40
QXN5AT40PS08-Kit	47549922001	8.0 – 40.0	545	3.00	586	22	½"	–	USB cable	40
QXN5AT80PS08-Kit	47561546001	12.0 – 80.0	375	3.00	586	22	½"	–	USB cable	40

(1) Weight to include tool + battery weights

Cordless Screwdrivers

QXC USB Torque and Angle Control | Pistol



Transducer

Ref.	CCN	Nm	rpm	kg	mm	mm	in		Com	V
QXC2PT04PQ4	47104039	0.8 – 4.0	1500	0.91	215	20 – 26	¼"	+	USB cable	20
QXC2PT04PS4	47104047	0.8 – 4.0	1500	0.91	208	20 – 26	¼"	+	USB cable	20
QXC2PT04PS6	47104054	0.8 – 4.0	1500	0.91	212	20 – 26	⅜"	+	USB cable	20
QXC2PT08PQ4	47103973	1.6 – 8.0	1150	0.91	215	20 – 26	¼"	+	USB cable	20
QXC2PT08PS4	47103981	1.6 – 8.0	1150	0.91	208	20 – 26	¼"	+	USB cable	20
QXC2PT08PS6	47103999	1.6 – 8.0	1150	0.91	212	20 – 26	⅜"	+	USB cable	20
QXC2PT12PQ4	47103916	2.4 – 12.0	750	0.91	215	20 – 26	¼"	+	USB cable	20
QXC2PT12PS4	47103924	2.4 – 12.0	750	0.91	208	20 – 26	¼"	+	USB cable	20
QXC2PT12PS6	47103932	2.4 – 12.0	750	0.91	212	20 – 26	⅜"	+	USB cable	20
QXC2PT18PQ4	47516834001	3.6 – 18.0	500	0.91	215	20 – 26	¼"	+	USB cable	20
QXC2PT18PS6	47516834003	3.6 – 18.0	500	0.91	212	20 – 26	⅜"	+	USB cable	20

Cordless Screwdrivers

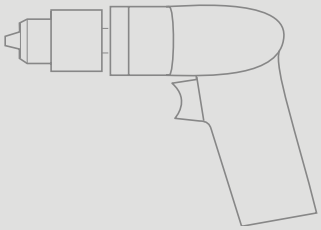
QXC USB Torque and Angle Control | Angle

Transducer

Ref.	CCN	Nm	rpm	kg	mm	mm	in		Com	V
QXC2AT05PQ4	47510887010	1.0 – 5.0	1213	1.14	552	9	¼"	+	USB cable	20
QXC2AT10PS6	47510887009	2.0 – 10.0	936	1.18	525	13	⅜"	+	USB cable	20
QXC2AT15PS6	47510887008	3.0 – 15.0	600	1.18	525	13	⅜"	+	USB cable	20
QXC2AT18PQ4	47510887007	3.6 – 18.0	500	1.27	542	13	¼"	+	USB cable	20
QXC2AT18PS6	47510887006	3.6 – 18.0	500	1.27	542	13	⅜"	+	USB cable	20
QXC5AT20PS06	47517880014	4.0 – 20.0	1045	2.04	578	13	⅜"	+	USB cable	40
QXC2AT27PS6	47515592001	5.4 – 27.0	330	1.68	552	17	⅜"	+	USB cable	20
QXC5AT30PS06	47517880013	6.0 – 30.0	775	2.18	582	17	⅜"	+	USB cable	40
QXC5AT30PS08	47517880012	6.0 – 30.0	775	2.18	582	17	½"	+	USB cable	40
QXC5AT35PS06	47517880011	7.0 – 35.0	640	2.18	582	17	⅜"	+	USB cable	40
QXC5AT35PS08	47517880010	7.0 – 35.0	640	2.18	582	17	½"	+	USB cable	40
QXC5AT40PS08	47517880009	8.0 – 40.0	545	2.27	586	22	½"	+	USB cable	40
QXC5AT80PS08	47517880023	12.0 – 80.0	375	2.27	586	22	½"	+	USB cable	40

Cordless Screwdrivers

QXX Wireless Torque and Angle Control | Pistol



Transducer

Ref.	CCN	Nm	rpm	kg	mm	mm	in		Com	V
QXX2PT04PQ4	47104062	0.8 – 4.0	1500	0.91	215	20 – 26	¼"	+	Wireless	20
QXX2PT04PS4	47104070	0.8 – 4.0	1500	0.91	208	20 – 26	¼"	+	Wireless	20
QXX2PT04PS6	47104088	0.8 – 4.0	1500	0.91	212	20 – 26	⅜"	+	Wireless	20
QXX2PT08PQ4	47104005	1.6 – 8.0	1150	0.91	215	20 – 26	¼"	+	Wireless	20
QXX2PT08PS4	47104013	1.6 – 8.0	1150	0.91	208	20 – 26	¼"	+	Wireless	20
QXX2PT08PS6	47104021	1.6 – 8.0	1150	0.91	212	20 – 26	⅜"	+	Wireless	20
QXX2PT12PQ4	47103940	2.4 – 12.0	750	0.91	215	20 – 26	¼"	+	Wireless	20
QXX2PT12PS4	47103957	2.4 – 12.0	750	0.91	208	20 – 26	¼"	+	Wireless	20
QXX2PT12PS6	47103965	2.4 – 12.0	750	0.91	212	20 – 26	⅜"	+	Wireless	20
QXX2PT18PQ4	47516834002	3.6 – 18.0	500	0.91	215	20 – 26	¼"	+	Wireless	20
QXX2PT18PS6	47516834004	3.6 – 18.0	500	0.91	212	20 – 26	⅜"	+	Wireless	20

Cordless Screwdrivers

QXX Wireless Torque and Angle Control | Angle

Transducer

Ref.	CCN	Nm	rpm	kg	mm	mm	in		Com	V
QXX2AT05PQ4	47510887005	1.0 – 5.0	1213	1.14	552	9	¼"	+	Wireless	20
QXX2AT10PS6	47510887004	2.0 – 10.0	936	1.18	525	13	⅜"	+	Wireless	20
QXX2AT15PS6	47510887003	3.0 – 15.0	600	1.18	525	13	⅜"	+	Wireless	20
QXX2AT18PQ4	47510887002	3.6 – 18.0	500	1.27	542	13	¼"	+	Wireless	20
QXX2AT18PS6	47510887001	3.6 – 18.0	500	1.27	542	13	⅜"	+	Wireless	20
QXX5AT20PS06	47517880007	4.0 – 20.0	1045	2.04	558	13	⅜"	+	Wireless	40
QXX2AT27PS6	47515592002	5.4 – 27.0	330	1.68	552	17	⅜"	+	Wireless	20
QXX5AT30PS06	47517880006	6.0 – 30.0	775	2.18	582	13	⅜"	+	Wireless	40
QXX5AT30PS08	47517880005	6.0 – 30.0	775	2.18	582	17	½"	+	Wireless	40
QXX5AT35PS06	47517880004	7.0 – 35.0	640	2.18	582	17	⅜"	+	Wireless	40
QXX5AT35PS08	47517880003	7.0 – 35.0	640	2.18	582	17	½"	+	Wireless	40
QXX5AT40PS08	47517880002	8.0 – 40.0	545	2.27	586	22	½"	+	Wireless	40
QXX5AT80PS08	47517880022	12.0 – 80.0	375	2.27	586	22	½"	+	Wireless	40

A Plant-Wide Network for Plant-Wide Productivity

Cordless Screwdrivers Process Communication Module

Ingersoll Rand doesn't just give you unprecedented technology; we want to give you total control of that technology. Our Process Communication Module allows for control that translates into maximum productivity and efficiency.

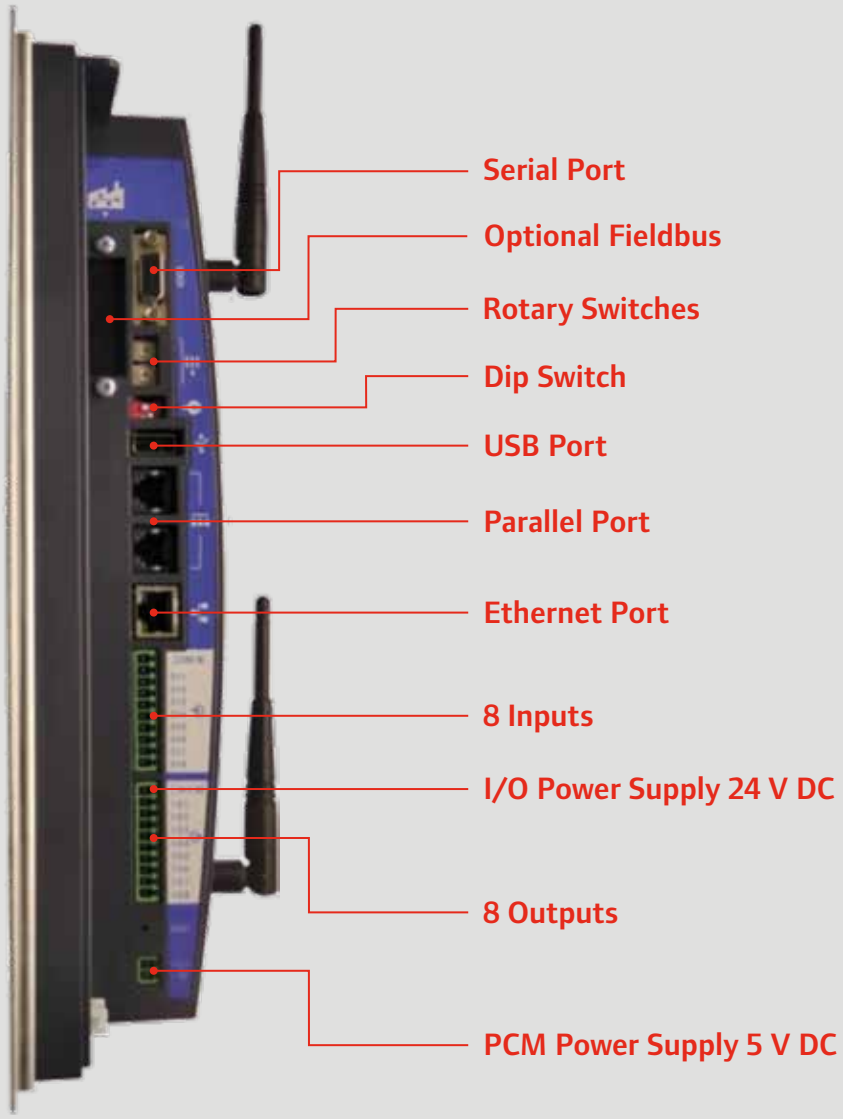
10 to 1

Every Process Communication Module can communicate with up to 10 individual QX Series tools.

When not using the wireless networking option, each QX Series tool can communicate with a computer via USB port.

A Plant-Wide Network for Plant-Wide Productivity

Cordless Screwdrivers Process Communication Module



Process Communication Module
IC-PCM-2-EU
CCN 24119638

QX Series Process Communication Module (PCM)

		IC-PCM-2-EU
Main Power Supply	**84737-A499-PCM-5V** (supplied) 100-240V AC input – 5V DC output	•
Tool Connections	Wireless tool connections	10
Software	ICS Connect software	•
Communication	Ethernet to ICS	•
Fieldbus Options	Ethernet/IP, DeviceNet, Interbus-S, Profibus, Modbus-TCP	•
Protocols	Open Protocol, Ethernet EOR, Serial EOR, Profinet-Communication	•
Printers/Devices	Serial RS232, bar code, label printing	•
I/O	8 inputs/8 outputs, with behavior assignable through ICS software, operates at 24V DC	•
I/O Power Supply	**84737-A499-PCM-24V** (supplied) 100-240V AC input – 24V DC output	•
Indicators	Power ON, System Ready, Wireless Activity, Ethernet Activity	•

Cordless Screwdrivers
Accessories

IQV40 Series 40V, 2.5Ah
Lithium-Ion Battery Pack
BL4011
CCN 47513319001

IQV20 Series 20V, 5.0Ah
Lithium-Ion Battery Pack
BL2022
CCN 47515902001

IQV20 Series 20V, 2.5Ah
Lithium-Ion Battery Pack
BL2012
CCN 47515903001

IQV40 Series 40V, 2.5Ah
Battery Charger
BC1161
CCN 47516653001

IQ Series 12/20V
Battery Charger
BC1121-EU
CCN 47507874001

BL2012 Battery Boot
BL2005-Boot
CCN 47510965001

BL2022 and BL4011 Battery Boot
BL2010-Boot
CCN 47510964001

Angle Head Boots

Model	CCN	Tool Compatibility
Model extended boot		
VA1-R18-170	47526045001	{}05P{}
VA1-R25-170	47526046001	{}10P{}, {}15P{}
GAA2-170	80199557	{}18P{}, {}20P{}
GAA4-170	80199052	{}27P{}, {}30P{}, {}35P{}
GAA5-170	80199656	{}40P{}, {}80P{}
Model Angle head sleeve		
GEA40-170	80095847	{}18P{}, {}20P{}
GEA40-171	80095888	{}27P{}, {}30P{}, {}35P{}
GEA40-172	80095409	{}40P{}, {}80P{}

Boot
Red boot
VP1-BOOT
CCN 48411292

White boot
VP1-WT-BOOT
CCN 48411292

Closed boot
VP1-BOOT-NP
CCN 48411292

Bit Selector Tray
IC-BIT-8
CCN 45637113

Socket Selector Tray
IC-Socket-8
CCN 45491073

Communication Kit
84737-Comm-Kit
CCN 48414460

Torque Tester
EXTT-12
CCN 45654076
See more options for torque testers on p. 106

Spring Balancer
BMDS-2
CCN 92842152

Auxiliary Handle
VP1-A48
CCN 47107263

Bit Selector Tray Cables
IC-19PIN-5M
CCN 45491073
IC-19PIN-10M
CCN 45473048
Socket Selector Tray Cables
IC-10PIN-6M
CCN 45473048

Pistol Tool Suspension Bale
VP1-365
CCN: 48382147
Pistol Hanger Tool
CPS2-A365
CCN: 45592979
Angle Wrench Hanger Tool :
GEA40-A365
CCN: 45567849

Socket Kit
SK3H8
CCN 81280760

Low-Torque Electric Screwdrivers

You've got a critical job to do, and there are a lot of people counting on you to get it done right. At Ingersoll Rand, we know what's at stake, too. That's why we deliver the most innovative and reliable DC electric fastening systems in the industry.

Low-Torque Electric Screwdrivers

Low-Torque Electric Screwdrivers
Series Information

VersaTec Series

Low-torque screwdrivers in an ergonomic space-saving package

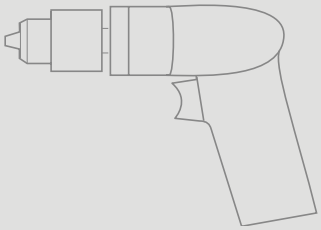
- Torque range 0.03 to 6.4 Nm
- Speed 260 to 2,500 rpm
- Ergonomic package features contoured soft-touch grip, two-finger lever actuation, and easy forward reverse control providing operator comfort and productivity
- Variable speed and soft-start feature built into controller
- Lightweight, compact design
- External adjustment torque control
- Recommended for low-torque applications along with precise torque and speed control
- ESD models available (Part numbers ending with "-ESD")

ET4004E

EL4011S2S5

EL0410E

Low-Torque Electric Screwdrivers
Pistol



Adjustable shut-off clutch

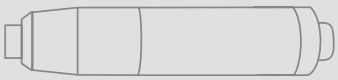
Ref.	CCN	Nm	rpm	kg	mm	mm	in	V
LEVER TO START								
ET4004E	01348002	2.0 – 4.5	400	0.73	273	286	¼"	AC 230
ET4005S	01359868	2.0 – 4.5	500	0.78	273	286	¼"	DC 34
ET4011S	01352491	2.0 – 4.5	1100	0.78	273	286	¼"	DC 34
PUSH START								
EP4004E	01348010	2.0 – 4.5	400	0.73	273	286	¼"	AC 230
EP4005S	01359843	2.0 – 4.5	500	0.78	273	286	¼"	DC 34
EP4011S	01359538	2.0 – 4.5	1100	0.78	273	286	¼"	DC 34

Low-Torque Electric Screwdrivers
Angle

Adjustable shut-off clutch

Ref.	CCN	Nm	rpm	kg	mm	mm	in	V
LEVER TO START								
EL1510E2S3	01347889	0.7 – 2.6	650	1.00	448	13	¼"	AC 230
EL1510E2S5	01347822	0.7 – 2.6	650	1.00	448	13	¼"	AC 230
EL1525S2S3	01359884	0.7 – 2.6	1600	0.95	448	13	¼"	DC 34
EL1525S2S5	01359876	0.7 – 2.6	1600	0.95	448	13	¼"	DC 34
EL4004E2S3	01347913	1.7 – 6.4	260	1.00	448	13	¼"	AC 230
EL4004E2S5	01347855	1.7 – 6.4	260	1.00	448	13	¼"	AC 230
EL4011S2S3	01359918	1.7 – 6.4	700	0.95	448	13	¼"	DC 34
EL4011S2S5	01359900	1.7 – 6.4	700	0.95	448	13	¼"	DC 34

Low-Torque Electric Screwdrivers
Inline

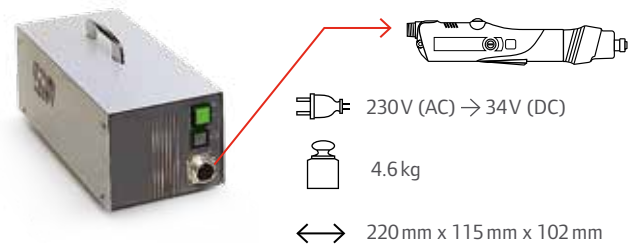


Adjustable shut-off clutch

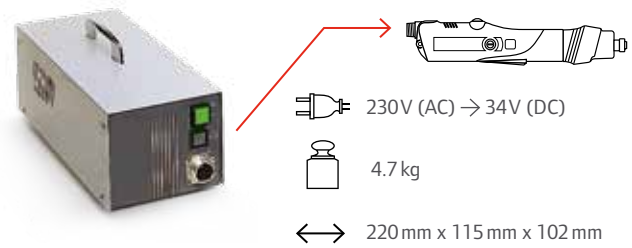
Ref.	CCN	Nm	rpm	kg	mm	mm	in	V
LEVER TO START								
EL0109E	01347731	0.0 – 0.2	950	0.32		235	4 mm Ø	DC 24
EL0410E	01347749	0.1 – 0.5	1000	0.36		235	¼"	DC 24
EL1007E	01347764	0.6 – 1.2	700	0.36		235	¼"	DC 24
EL1510E	01347962	0.6 – 1.7	1000	0.73	273	286	¼"	AC 230
EL1512S	01352467	0.6 – 1.7	1200	0.68	273	286	¼"	DC 34
EL1525S	01352475	0.6 – 1.7	2500	0.68	273	286	¼"	DC 34
EL2607E	01347988	1.2 – 2.9	700	0.73	273	286	¼"	AC 230
EL2608S	01359850	1.2 – 2.9	800	0.68	273	286	¼"	DC 34
EL2616S	01352483	1.2 – 2.9	1600	0.68	273	286	¼"	DC 34
PUSH START								
EP1510E	01347970	0.6 – 1.7	1000	0.73	273	286	¼"	AC 230
EP1512S	01352509	0.6 – 1.7	1200	0.68	273	286	¼"	DC 34
EP1525S	01352517	0.6 – 1.7	2500	0.68	273	286	¼"	DC 34
EP2607E	01347996	1.2 – 2.9	700	0.73	273	286	¼"	AC 230
EP2608S	01359835	1.2 – 2.9	800	0.68	273	286	¼"	DC 34
EP2616S	01352525	1.2 – 2.9	1600	0.68	273	286	¼"	DC 34
WITH SOFT STOP								
EL0410BC-SS-ESD	04654596	0.2 – 0.4	1000	0.40		267	4 mm Ø	DC 24
EL0510BC-SS-ESD	04654604	0.3 – 0.6	1000	0.40		267	4 mm Ø	DC 24
EL0807BC-SS-ESD	04654612	0.5 – 1.0	700	0.40		267	4 mm Ø	DC 24
EL1007BC-SS-ESD	04654620	0.6 – 1.2	700	0.40		267	4 mm Ø	DC 24
WITHOUT SOFT STOP								
EL1007BC-ESD	04654638	0.2 – 1.2	700	0.40		267	¼"	DC 24

Low-Torque Electric Screwdrivers
Controllers for 34V Screwdrivers

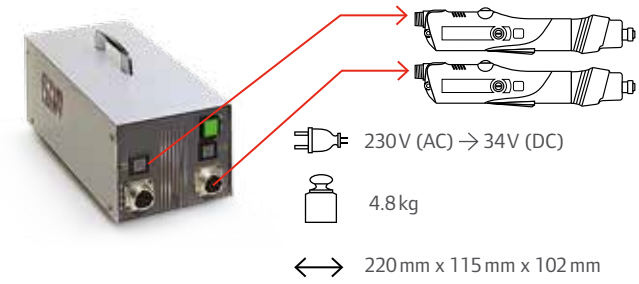
Ref. No. EC34ES-1
(EC34US-1 with UK plug style)



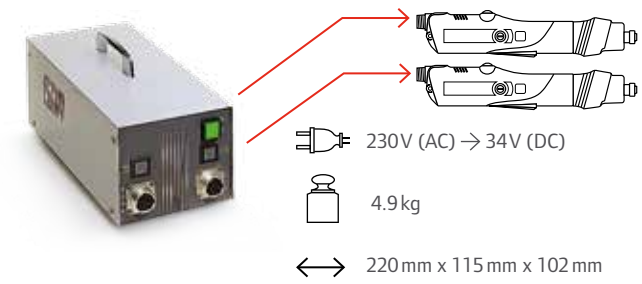
Ref. No. EC34ES-1-CPU
(only European plug style available)

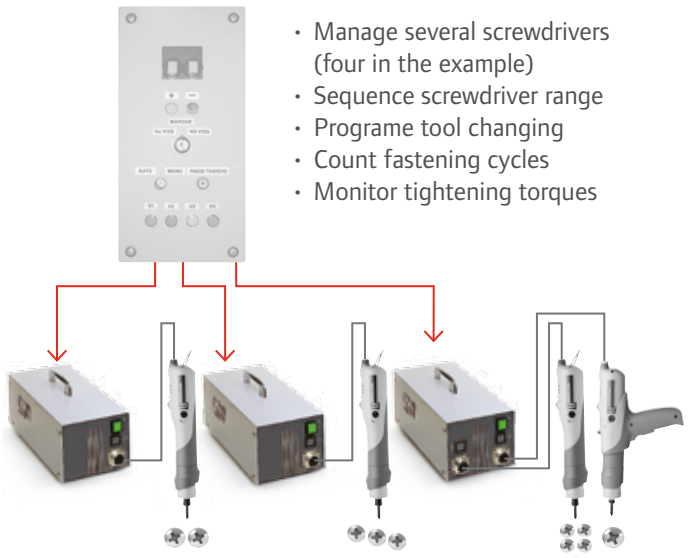


Ref. No. EC34ES-2
(EC34US-2 with UK plug style)



Ref. No. EC34ES-2-CPU
(only European plug style available)





- Manage several screwdrivers (four in the example)
- Sequence screwdriver range
- Programe tool changing
- Count fastening cycles
- Monitor tightening torques

CPU controllers (34V) with SUB-D15 connector for PLC

Low-Torque Electric Screwdrivers
Controllers for 24V Screwdrivers

Ref. No. EC24E
(EC24-U with UK plug style)

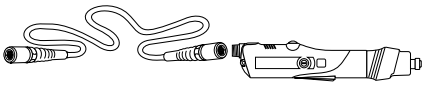
5 pins cable (Ref. EL0109B-239)

230V (AC) → 24V (DC)

2.3 kg

267 mm x 83 mm x 104 mm

Ref. No. EC24-ESD
(only European plug style available)



6 pins cable (Ref. EL0410B-239-ESD)

230V (AC) → 24V (DC)

2.3 kg

267 mm x 83 mm x 104 mm

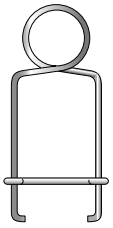
Ref. No. EC24E-CPU
(European plug style only)

CPU controllers (24V) with
SUB-D15 connector for PLC

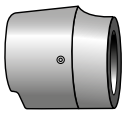
Not available for ESD models

Low-Torque Electric Screwdrivers
Accessories

Ref. No. EP4007N-48
For 230V and 34V models
Attachable pistol grip handle: for use with lever and push start models.



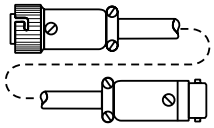
Suspension bails:
For 230V and 34V models
- Vertical: Ref. No. EP4007N-365
- Horizontal: Ref. No. EP4007N-366



Ref. No. EP4007N-123
For 230V and 34V models
Low profile flange: smaller dimension flange (fitted as standard on pistol and angle models).

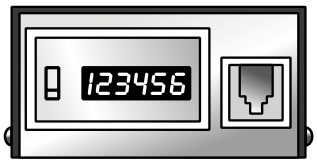
Ref. No. VDS-511
For 230V and 34V models
Light spring used for high-torque models:
0.17 – 0.8 Nm for EP/EL1510E
0.22 – 1.0 Nm for EP/EL1512K/1525K

Ref. No. EP4007N-516
For 230V and 34V models
Torque adjusting wrench: used to externally adjust the torque without removing the flange.

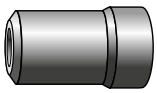


24 V: Ref. No. ES40T-249-2 for controller
34 V: No. EC29-249-2 for controller
For 34V and 24V models
Extension cord, length 2 m: for use between tool and controller.

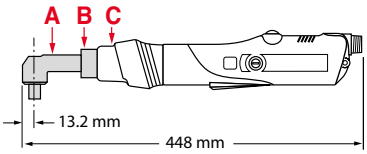
Low-Torque Electric Screwdrivers
Accessories



Ref. No. EC24-DC
For 34V and 24V models
Digital counter: available on special request. Digital display shows number of cycles. Includes cord to attach to controller.

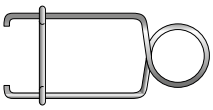


Ref. No. DLW-5300
For 24V models
Torque adjustment cover used for models EL1007E, EL0410E and EL0109E – designed to ensure tamper proof torque adjustment.



Angle head option

	2S3 ⬡	2S5 □
A	3RL23	3RL25
B	EL4007N2S5-AHC	
C	ET4007N2S5-580	



Ref. No. EL0109B-365
For 24V models
Vertical hanger

Precision DC Nutrunners

QE tools and controllers team up to provide superior accuracy, ergonomics, and durability and meet your critical fastening requirements. Full closed-loop transducerized control in a compact, lightweight package allows your line to run more efficiently.

A full line of world-class tools – whether handled or fixture, and whether you are in the motor vehicle, aerospace, electronics, white goods, or general industries – helps maximize your productivity.

Precision DC Nutrunners

Precision DC Nutrunners
Series Information

QE Series

A proven world-class combination - QE tools and IC Series controllers team up to provide superior accuracy and durability and meet your critical fastening requirements. The non-contacting switches, heavy-duty gear train, and DC brushless motor create a durable package while the compact, ergonomic design and easily accessible controls help operators keep production lines running smoothly.

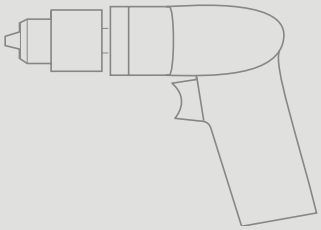
- Torque range 0.3 to 320 Nm
- Speed 500 to 3,000 rpm
- True closed-loop transducerized control provides exceptional accuracy
- Advanced tightening strategies and process communication
- Easy-to-use reverse ring
- Compact, high-speed, easily accessible control
- Preventive maintenance alerts
- Bright LEDs provide visible status indicators
- Tact alert provides positive feedback to the operator without distracting from the task
- High-temperature motor protection
- Comfortable ergonomic grip

QE2PT002P10Q04

QE2AL003PA1S04

QE2SP002P10Q04

Precision DC Nutrunners
Pistol



Transducer

Ref.	CCN	Nm	Nm MAX		1 min rpm	kg	mm	mm	in	V
TRIGGER CONTROL										
QE2PT002P10Q04	46774634	0.3 – 1.6	2	M2	3000	0.66	250	19	¼"	IC 12 Controller
QE2PT002P10S04	46774642	0.3 – 1.6	2	M2	3000	0.66	242	19	¼"	IC 12 Controller
QE2PT003P10Q04	46774667	0.6 – 2.4	3	M2	2450	0.66	250	19	¼"	IC 12 Controller
QE2PT003P10S04	46774675	0.6 – 2.4	3	M2	2450	0.66	242	19	¼"	IC 12 Controller
QE2PT005P10Q04	46774691	1.0 – 4.0	5	M2	1700	0.66	250	19	¼"	IC 12 Controller
QE2PT005P10S04	46774709	1.0 – 4.0	5	M2	1700	0.66	242	19	¼"	IC 12 Controller
QE2PT007P10Q04	46774725	1.3 – 5.6	7	M2	1250	0.66	250	19	¼"	IC 12 Controller
QE2PT007P10S04	46774733	1.3 – 5.6	7	M2	1250	0.66	242	19	¼"	IC 12 Controller
QE2PT010P10Q04	46774758	2.0 – 8.0	10	M4	850	0.66	250	19	¼"	IC 12 Controller
QE2PT010P10S04	46774766	2.0 – 8.0	10	M4	850	0.66	242	19	¼"	IC 12 Controller
QE4PT010P10Q04	80175607	2.0 – 8.0	10	M4	1820	1.20	243		¼"	IC 12 Controller
QE4PT010P10S04	80175615IRI	2.0 – 8.0	10	M4	1820	1.20	230		¼"	IC 12 Controller
QE4PT015P10Q04	80175706IRI	3.0 – 12.0	15	M5	1220	1.20	243		¼"	IC 12 Controller
QE4PT015P10S04	80175714IRI	3.0 – 12.0	15	M5	1220	1.20	230		¼"	IC 12 Controller
QE4PT020P10S06	80175805IRI	4.0 – 16.0	20	M6	900	1.20	234		¼"	IC 12 Controller
QE4PT025P10S06	80175888IRI	5.0 – 20.0	25	M6	710	1.20	234		¼"	IC 12 Controller
TRIGGER + PUSH START										
QE2PP002P11Q04	46774337	0.3 – 1.6	2	M2	3000	0.66	250	19	¼"	IC 12 Controller
QE2PP002P11S04	46774345	0.3 – 1.6	2	M2	3000	0.66	242	19	¼"	IC 12 Controller
QE2PP003P11Q04	46774360	0.6 – 2.4	3	M2	2450	0.66	250	19	¼"	IC 12 Controller
QE2PP003P11S04	46774378	0.6 – 2.4	3	M2	2450	0.66	242	19	¼"	IC 12 Controller
QE2PP005P11Q04	46774394	1.0 – 4.0	5	M2	1700	0.66	250	19	¼"	IC 12 Controller
QE2PP005P11S04	46774402	1.0 – 4.0	5	M2	1700	0.66	242	19	¼"	IC 12 Controller
QE2PP007P11Q04	46774428	1.3 – 5.6	7	M2	1250	0.66	250	19	¼"	IC 12 Controller
QE2PP007P11S04	46774436	1.3 – 5.6	7	M2	1250	0.66	242	19	¼"	IC 12 Controller
QE2PP010P11Q04	46774451	2.0 – 8.0	10	M4	850	0.66	250	19	¼"	IC 12 Controller
QE2PP010P11S04	46774469	2.0 – 8.0	10	M4	850	0.66	242	19	¼"	IC 12 Controller
PUSH START										
QE2PS002P11Q04	46774485	0.3 – 1.6	2	M2	3000	0.66	250	19	¼"	IC 12 Controller
QE2PS002P11S04	46774493	0.3 – 1.6	2	M2	3000	0.66	242	19	¼"	IC 12 Controller
QE2PS003P11Q04	46774519	0.6 – 2.4	3	M2	2450	0.66	250	19	¼"	IC 12 Controller
QE2PS003P11S04	46774527	0.6 – 2.4	3	M2	2450	0.66	242	19	¼"	IC 12 Controller
QE2PS005P11Q04	46774543	1.0 – 4.0	5	M2	1700	0.66	250	19	¼"	IC 12 Controller
QE2PS005P11S04	46774550	1.0 – 4.0	5	M2	1700	0.66	242	19	¼"	IC 12 Controller
QE2PS007P11Q04	46774576	1.3 – 5.6	7	M2	1250	0.66	250	19	¼"	IC 12 Controller
QE2PS007P11S04	46774584	1.3 – 5.6	7	M2	1250	0.66	242	19	¼"	IC 12 Controller
QE2PS010P11Q04	46774600	2.0 – 8.0	10	M4	850	0.66	250	19	¼"	IC 12 Controller
QE2PS010P11S04	46774618	2.0 – 8.0	10	M4	850	0.66	242	19	¼"	IC 12 Controller

Precision DC Nutrunners
Angle

Transducer

Ref.	CCN	Nm	Nm MAX		1 min rpm	kg	mm	mm	mm	in	V
LEVER CONTROL											
QE2AL003PA1S04	46774006	0.8 – 3.2	4	M2	1750	0.83	312	27	9	¼" □	IC 12 Controller
QE2AL005PA3H04	46774196	1.0 – 4.0	5	M2	1590	0.95	318	34	13	¼" ⟳	IC 12 Controller
QE2AL005PA3Q04	46774204	1.0 – 4.0	5	M2	1590	0.95	318	34	13	¼" ⟳	IC 12 Controller
QE2AL005PA3S04	46774170	1.0 – 4.0	5	M2	1590	0.95	318	34	13	¼" □	IC 12 Controller
QE2AL005PA3S06	46774188	1.0 – 4.0	5	M2	1590	0.95	318	34	13	⅜" □	IC 12 Controller
QE2AL007PA3H04	46774238	1.4 – 5.6	7	M2	1100	0.95	318	34	13	¼" ⟳	IC 12 Controller
QE2AL007PA3Q04	46774246	1.4 – 5.6	7	M2	1100	0.95	318	34	13	¼" ⟳	IC 12 Controller
QE2AL007PA3S06	46774220	1.4 – 5.6	7	M2	1100	0.95	318	34	13	⅜" □	IC 12 Controller
QE2AL010PA3H04	46774279	2.0 – 8.0	10	M4	730	0.95	318	34	13	¼" ⟳	IC 12 Controller
QE2AL010PA3Q04	46774287	2.0 – 8.0	10	M4	730	0.95	318	34	13	¼" ⟳	IC 12 Controller
QE2AL010PA3S04	46774253	2.0 – 8.0	10	M4	730	0.95	318	34	13	¼" □	IC 12 Controller
QE2AL010PA3S06	46774261	2.0 – 8.0	10	M4	730	0.95	318	34	13	⅜" □	IC 12 Controller
QE2AL015PA3H04	46774311	3.0 – 12.0	15	M4	560	0.95	318	34	13	¼" ⟳	IC 12 Controller
QE2AL015PA3Q04	46774329	3.0 – 12.0	15	M4	560	0.95	318	34	13	¼" ⟳	IC 12 Controller
QE2AL015PA3S04	46774295	3.0 – 12.0	15	M4	560	0.95	318	34	13	¼" □	IC 12 Controller
QE2AL015PA3S06	46774303	3.0 – 12.0	15	M4	560	0.95	318	34	13	⅜" □	IC 12 Controller
QE4AT013PA2H04	16676876	3.0 – 10.0	13	M5	1200	1.30	383	32	13	¼" ⟳	IC 12 Controller
QE4AT013PA2Q04	16676884	3.0 – 10.0	13	M5	1200	1.30	383	32	13	¼" ⟳	IC 12 Controller
QE4AT013PA2S04	18427146	3.0 – 10.0	13	M5	1200	1.30	383	32	13	¼" □	IC 12 Controller
QE4AT013PA2S06	18427153	3.0 – 10.0	13	M5	1200	1.30	383	32	13	⅜" □	IC 12 Controller
QE4AT020PA2H04	16676918	4.0 – 16.0	20	M6	820	1.30	383	32	13	¼" ⟳	IC 12 Controller
QE4AT020PA2Q04	16676926	4.0 – 16.0	20	M6	820	1.30	383	32	13	¼" ⟳	IC 12 Controller
QE4AT020PA2S04	18427179	4.0 – 16.0	20	M6	820	1.30	383	32	13	¼" □	IC 12 Controller
QE4AT020PA2S06	16675464IRI	4.0 – 16.0	20	M6	820	1.30	383	32	13	⅜" □	IC 12 Controller
QE4AT027PA4S06	18427187	5.0 – 22.0	27	M8	600	1.30	387	42	17	⅜" □	IC 12 Controller
QE4AT027PA4S08	18427195	5.0 – 22.0	27	M8	600	1.30	387	42	17	½" □	IC 12 Controller
QE4AT034PA4S06	16675167	7.0 – 27.0	34	M8	470	1.30	387	42	17	⅜" □	IC 12 Controller
QE4AT034PA4S08	16676967	7.0 – 27.0	34	M8	470	1.30	387	42	17	½" □	IC 12 Controller
QE6AT030PA2S06	16674749	6.0 – 24.0	30	M8	1230	1.90	442	32	13	⅜" □	IC 12 Controller
QE6AT030PA4S08	18427351	6.0 – 24.0	30	M8	1230	1.90	447	42	17	½" □	IC 12 Controller
QE6AT040PA4S06	16675472	8.0 – 32.0	40	M8	910	1.90	447	42	17	⅜" □	IC 12 Controller
QE6AT040PA4S08	16675480	8.0 – 32.0	40	M8	910	1.90	447	42	17	½" □	IC 12 Controller
QE6AT055PA5S08	47130174	11.0 – 44.0	55	M10	650	1.90	453	45	22	½" □	IC 12 Controller

Precision DC Nutrunners
Angle

Transducer

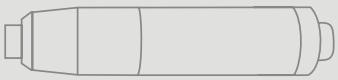
Ref.	CCN	Nm	Nm		rpm	kg	mm	mm	mm	in	V
QE6AT080PA5S08	16674947	16.0 – 64.0	80	M10	440	1.90	453	45	22	½" □	IC 12 Controller
QE8AT065PA5S08	18427526	13.0 – 52.0	65	M10	1200	2.90	516	45	22	½" □	IC 12 Controller
QE8AT070PA5S08	18427534	14.0 – 56.0	70	M10	1100	2.90	516	45	22	½" □	IC 12 Controller
QE8AT090PA5S08	16675662	17.0 – 72.0	90	M10	850	2.90	516	45	22	½" □	IC 12 Controller
QE8AT115PA6S08	15969975	23.0 – 92.0	115	M12	660	2.90	520	50	24	½" □	IC 12 Controller
QE8AT150PA6S08	16675779	30.0 – 120.0	150	M12	510	2.90	520	50	24	½" □	IC 12 Controller
QE8AT225PA7S12	16679086	45.0 – 180.0	225	M16	310	4.10	575	55	28	¾" □	IC 12 Controller
QE8AT400FA8S12	16679094	80.0 – 320.0	400	M18	170	6.00	635	69	33	¾" □	IC 12 Controller

Precision DC Nutrunners
Inline

Transducer

Ref.	CCN	Nm	Nm MAX		1 min rpm	kg	mm	mm	mm	mm	in	V
LEVER CONTROL												
QE2SL002F32S06	46774832	0.3 – 1.6	2	M2	3000	0.91	342	19	32	19	3/8" □	IC 12 Controller
QE2SL002P10Q04	46774881	0.3 – 1.6	2	M2	3000	0.60	250			22	1/4" ⬡	IC 12 Controller
QE2SL002P10S04	46774899	0.3 – 1.6	2	M2	3000	0.60	242			22	1/4" □	IC 12 Controller
QE2SL003F32S06	46774840	0.6 – 2.4	3	M2	2450	0.91	342	19	32	19	3/8" □	IC 12 Controller
QE2SL003P10Q04	46774915	0.6 – 2.4	3	M2	2450	0.60	250			22	1/4" ⬡	IC 12 Controller
QE2SL003P10S04	46774923	0.6 – 2.4	3	M2	2450	0.60	242			22	1/4" □	IC 12 Controller
QE2SL005F32S06	46774857	1.0 – 4.0	5	M2	1700	0.91	342	19	32	19	3/8" □	IC 12 Controller
QE2SL005P10Q04	46774949	1.0 – 4.0	5	M2	1700	0.60	250			22	1/4" ⬡	IC 12 Controller
QE2SL005P10S04	46774956	1.0 – 4.0	5	M2	1700	0.60	242			22	1/4" □	IC 12 Controller
QE2SL007F32S06	46774865	1.3 – 5.6	7	M2	1250	0.91	342	19	32	19	3/8" □	IC 12 Controller
QE2SL007P10Q04	46774972	1.3 – 5.6	7	M2	1250	0.60	250			22	1/4" ⬡	IC 12 Controller
QE2SL007P10S04	46774980	1.3 – 5.6	7	M2	1250	0.60	242			22	1/4" □	IC 12 Controller
QE2SL010F32S06	46774873	2.0 – 8.0	10	M4	850	0.91	342	19	32	19	3/8" □	IC 12 Controller
QE2SL010P10Q04	46775003	2.0 – 8.0	10	M4	850	0.60	250			22	1/4" ⬡	IC 12 Controller
QE2SL010P10S04	46775011	2.0 – 8.0	10	M4	850	0.60	242			22	1/4" □	IC 12 Controller
QE4ST010B20S06		2.0 – 8.0	10	M4	1820	1.20	386		40	25	3/8" □	IC 12 Controller
QE4ST010B21S06	16985327	2.0 – 8.0	10	M4	1820	1.20	386	19	40	25	3/8" □	IC 12 Controller
QE4ST015B20S06	48389555	3.0 – 11.0	15	M5	1220	1.20	386		40	25	3/8" □	IC 12 Controller
QE4ST015B21S06	16985350	3.0 – 11.0	15	M5	1220	1.20	386	19	40	25	3/8" □	IC 12 Controller
QE4ST020B20S06	45501988	4.0 – 16.0	20	M6	900	1.20	386		40	25	3/8" □	IC 12 Controller
QE4ST020B21S06	16985384	4.0 – 16.0	20	M6	900	1.20	386	19	40	25	3/8" □	IC 12 Controller
QE4ST025B20S06	48394746	5.0 – 20.0	25	M6	710	1.20	386		40	25	3/8" □	IC 12 Controller
QE4ST025B21S06	16985418	5.0 – 20.0	25	M6	710	1.20	386	19	40	25	3/8" □	IC 12 Controller
QE6ST020F41S06	10564946IRI	4.0 – 16.0	20	M6	1840	2.10	501	19	113	27	3/8" □	IC 12 Controller
QE6ST020F61S06	10565638	4.0 – 16.0	20	M6	1840	2.10	544	38	144	27	3/8" □	IC 12 Controller
QE6ST028F41S06	16985434	6.0 – 22.0	28	M8	1360	2.10	501	19	113	27	3/8" □	IC 12 Controller
QE6ST028F61S06	10565786	6.0 – 22.0	28	M8	1360	2.10	544	38	144	27	3/8" □	IC 12 Controller
QE6ST033F41S06	16985442	7.0 – 26.0	33	M8	1130	2.10	501	19	113	27	3/8" □	IC 12 Controller
QE6ST033F61S06	10566321IRI	7.0 – 26.0	33	M8	1130	2.10	544	38	144	27	3/8" □	IC 12 Controller
QE6ST050F41S08	16985459	10.0 – 40.0	50	M10	760	2.10	501	19	113	27	1/2" □	IC 12 Controller
QE6ST050F61S08	10566826IRI	10.0 – 40.0	50	M10	760	2.10	544	38	144	27	1/2" □	IC 12 Controller
QE8ST055F41S08	10567956IRI	11.0 – 44.0	55	M10	1470	3.00	557	19	109	30	1/2" □	IC 12 Controller
QE8ST055F61S08	10568004IRI	11.0 – 44.0	55	M10	1470	3.00	608	38	141	30	1/2" □	IC 12 Controller
QE8ST070F41S08	16985475	14.0 – 56.0	70	M10	1160	3.00	557	19	109	30	1/2" □	IC 12 Controller
QE8ST070F61S08	10568178IRI	14.0 – 56.0	70	M10	1160	3.00	608	38	141	30	1/2" □	IC 12 Controller
QE8ST090F41S08	16675753	18.0 – 72.0	90	M10	900	3.00	557	19	109	30	1/2" □	IC 12 Controller

Precision DC Nutrunners
Inline



Transducer

Ref.	CCN	Nm	Nm MAX		rpm 1 min	kg	mm	mm	mm	mm	in	V
QE8ST090F61S08	10568277IRI	18.0 – 72.0	90	M10	900	3.00	608	38	141	30	½" □	IC 12 Controller
QE8ST150F41S08	16985483	30.0 – 120.0	150	M12	500	3.40	572	19	109	31	½" □	IC 12 Controller
QE8ST150F61S08	10568327IRI	30.0 – 120.0	150	M12	500	3.40	623	38	150	31	½" □	IC 12 Controller
QE8ST230F61S08	45497187	46.0 – 184.0	230	M18	340	5.50	710	38	150	36	½" □	IC 12 Controller
QE8ST230F62S12	18427674	46.0 – 184.0	230	M18	340	5.50	717	38	155	36	¾" □	IC 12 Controller
QE8ST230F82S12	45601366	46.0 – 184.0	230	M18	340	5.50	768	38	155	36	¾" □	IC 12 Controller
LEVER + PUSH START												
QE2SP002P11Q04	46775037	0.3 – 1.6	2	M2	3000	0.60	250			22	¼" ⬡	IC 12 Controller
QE2SP002P11S04	46775045	0.3 – 1.6	2	M2	3000	0.60	242			22	¼" □	IC 12 Controller
QE2SP003P11Q04	46775060	0.6 – 2.4	3	M2	2450	0.60	250			22	¼" ⬡	IC 12 Controller
QE2SP003P11S04	46775078	0.6 – 2.4	3	M2	2450	0.60	242			22	¼" □	IC 12 Controller
QE2SP005P11Q04	46775094	1.0 – 4.0	5	M2	1700	0.60	250			22	¼" ⬡	IC 12 Controller
QE2SP005P11S04	46775102	1.0 – 4.0	5	M2	1700	0.60	242			22	¼" □	IC 12 Controller
QE2SP007P11Q04	46775128	1.3 – 5.6	7	M2	1250	0.60	250			22	¼" ⬡	IC 12 Controller
QE2SP007P11S04	46775136	1.3 – 5.6	7	M2	1250	0.60	242			22	¼" □	IC 12 Controller
QE2SP010P11Q04	46775151	2.0 – 8.0	10	M4	850	0.60	250			22	¼" ⬡	IC 12 Controller
QE2SP010P11S04	46775169	2.0 – 8.0	10	M4	850	0.60	242			22	¼" □	IC 12 Controller
PUSH START												
QE2TS002P11Q04	46775185	0.3 – 1.6	2	M2	3000	0.57	250			22	¼" ⬡	IC 12 Controller
QE2TS002P11S04	46775193	0.3 – 1.6	2	M2	3000	0.57	242			22	¼" □	IC 12 Controller
QE2TS003P11Q04	46775219	0.6 – 2.4	3	M2	2450	0.57	250			22	¼" ⬡	IC 12 Controller
QE2TS003P11S04	46775227	0.6 – 2.4	3	M2	2450	0.57	242			22	¼" □	IC 12 Controller
QE2TS005P11Q04	46775243	1.0 – 4.0	5	M2	1700	0.57	250			22	¼" ⬡	IC 12 Controller
QE2TS005P11S04	46775250	1.0 – 4.0	5	M2	1700	0.57	242			22	¼" □	IC 12 Controller
QE2TS007P11Q04	46775276	1.3 – 5.6	7	M2	1250	0.57	250			22	¼" ⬡	IC 12 Controller
QE2TS007P11S04	46775284	1.3 – 5.6	7	M2	1250	0.57	242			22	¼" □	IC 12 Controller
QE2TS010P11Q04	46775300	2.0 – 8.0	10	M4	850	0.57	250			22	¼" ⬡	IC 12 Controller
QE2TS010P11S04	46775318	2.0 – 8.0	10	M4	850	0.57	242			22	¼" □	IC 12 Controller
QE4TS010R11Q04	16678955	2.0 – 8.0	10	M4	1820	1.20	363			25	¼" ⬡	IC 12 Controller
QE4TS010R11S04	16678963	2.0 – 8.0	10	M4	1820	1.20	343			25	¼" □	IC 12 Controller
QE4TS010R11S06	16678971	2.0 – 8.0	10	M4	1820	1.20	343			25	⅜" □	IC 12 Controller
QE4TS015R11Q04	18427278	3.0 – 12.0	15	M5	1220	1.20	363			25	¼" ⬡	IC 12 Controller
QE4TS015R11S04	16678989	3.0 – 12.0	15	M5	1220	1.20	343			25	¼" □	IC 12 Controller
QE4TS015R11S06	16678997	3.0 – 12.0	15	M5	1220	1.20	343			25	⅜" □	IC 12 Controller
QE4TS020R11S06	16679003	4.0 – 16.0	20	M6	900	1.20	343			25	⅜" □	IC 12 Controller
QE4TS025R11S06	16679011	5.0 – 20.0	25	M6	710	1.20	343			25	⅜" □	IC 12 Controller

DC Fixtured Wrenches

Heavy-duty motors offer high accuracy and control in tight clearance applications. Whether used in single-spindle or multiple-spindle configurations, these world-class tools provide top-quality performance and long life. QM series are the workhorse of your multispindle application. With four platforms that provide broad torque and speed coverage, Ingersoll Rand QM spindles deliver at the highest levels of performance, durability, and reliability in the industry.

DC Fixtured Wrenches

QE Electric Fixtured Wrenches

QM Electric Spindles

DC Fixtured Wrenches
Series Information

QE Series

Delivers all the benefits of the standard QE Series. Heavy-duty gear train and DC brushless motor create a durable package that will keep the line running smoothly and maintenance costs down. Integral offset spindle models satisfy tight clearance requirements.

- Torque range 0.3 to 320 Nm
- Speed 170 to 3,000 rpm
- True closed-loop transducerized control provides exceptional accuracy
- Advanced tightening strategies and process communication
- No switch on the tool, heavy-duty gear train and DC brushless motor provide exceptional durability
- Preventive maintenance alerts
- Bright LEDs provide visible status indicators
- QE6Z and QE8Z electric fixtured offset wrenches

QE6AC040FA4S06

QE2SC002F32S06

QE6ZC020P52S06

QM Series

Heavy-duty motors offer high accuracy and control over your fastening application. Whether used in single or multiple spindle configurations, these world-class tools provide top-quality performance and long life.

- Torque range 2 to 1,900 Nm
- Speed 25 to 1,382 rpm
- Better than 5% capability
- High-duty cycle motors and components provide excellent durability
- External electronics pod simplifies integration
- Available with or without spindles in a variety of lengths and drive options

QM3SS008H22S06

DC Fixtured Wrenches

QE Electric Fixtured Wrenches | Angle

Transducer

Ref.	CCN	Nm	Nm MAX		1 min rpm	kg	mm	mm	mm	in
QE4AC013BA2H04		3.0 – 10.0	13	M5	1200	1.30	383	32	13	¼" ⬡
QE4AC013BA2Q04		3.0 – 10.0	13	M5	1200	1.30	383	32	13	¼" ◔
QE4AC013BA2S04	47125729	3.0 – 10.0	13	M5	1200	1.30	383	32	13	¼" □
QE4AC013BA2S06		3.0 – 10.0	13	M5	1200	1.30	383	32	13	⅜" □
QE4AC020BA2H04		4.0 – 16.0	20	M6	820	1.30	383	32	13	¼" ⬡
QE4AC020BA2Q04		4.0 – 16.0	20	M6	820	1.30	383	32	13	¼" ◔
QE4AC020BA2S04		4.0 – 16.0	20	M6	820	1.30	383	32	13	¼" □
QE4AC020BA2S06	45669959	4.0 – 16.0	20	M6	820	1.30	383	32	13	⅜" □
QE4AC027BA4S06	80235666	5.0 – 22.0	27	M8	600	1.30	387	42	17	⅜" □
QE4AC027BA4S08		5.0 – 22.0	27	M8	600	1.30	387	42	17	½" □
QE6AC030FA2S06		6.0 – 24.0	30	M8	1230	1.90	442	32	13	⅜" □
QE6AC030FA4S08	47526343001	6.0 – 24.0	30	M8	1230	1.90	447	42	17	½" □
QE4AC034BA4S06	45645041	7.0 – 27.0	34	M8	470	1.30	387	42	17	⅜" □
QE4AC034BA4S08		7.0 – 27.0	34	M8	470	1.30	387	42	17	½" □
QE6AC040FA4S06		8.0 – 32.0	40	M8	910	1.90	447	42	17	⅜" □
QE6AC040FA4S08	47082037	8.0 – 32.0	40	M8	910	1.90	447	42	17	½" □
QE6AC055FA5S08	47096227	11.0 – 44.0	55	M10	650	1.90	453	45	22	½" □
QE8AC065FA5S08		13.0 – 52.0	65	M10	1200	2.90	516	45	22	½" □
QE8AC070FA5S08	18427450	14.0 – 56.0	70	M10	1100	2.90	516	45	22	½" □
QE6AC080FA5S08		16.0 – 64.0	80	M10	440	1.90	453	45	22	½" □
QE8AC090FA5S08	47096656	18.0 – 72.0	90	M10	850	2.90	516	45	22	½" □
QE8AC115FA6S08	80217300	23.0 – 92.0	115	M12	660	2.90	520	50	24	½" □
QE8AC150FA6S08	45634664	30.0 – 120.0	150	M12	510	2.90	520	50	24	½" □
QE8AC225FA7S12	80217292	45.0 – 180.0	225	M16	310	4.10	575	55	28	¾" □
QE8AC400FA8S12	18427468	80.0 – 320.0	400	M18	170	6.00	635	69	33	¾" □

DC Fixtured Wrenches

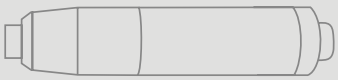
QE Electric Fixtured Wrenches | Inline

Transducer

Ref.	CCN	Nm	Nm MAX		rpm 1 min	kg	mm	mm	mm	in
QE2SC002F32S06	46774782	0.3 – 1.6	2	M2	3000	0.91	342	19	32	3/8"
QE2SC003F32S06	46774790	0.6 – 2.4	3	M2	2450	0.91	342	19	32	3/8"
QE2SC005F32S06	46774808IRI	1.0 – 4.0	5	M2	1700	0.91	342	19	32	3/8"
QE2SC007F32S06	46774816	1.3 – 5.6	7	M2	1250	0.91	342	19	32	3/8"
QE2SC010F32S06	46774824	2.0 – 8.0	10	M4	850	0.91	342	19	32	3/8"
QE4SC010B20S06		2.0 – 8.0	10	M4	1820	1.20	386		40	3/8"
QE4SC010B21S06	80239049	2.0 – 8.0	10	M4	1820	1.20	386	19	40	3/8"
QE4SC010B41S06	16986721	2.0 – 8.0	10	M4	1820	1.20	437	19	74	3/8"
QE4SC015B20S06		3.0 – 11.0	15	M5	1220	1.20	386		40	3/8"
QE4SC015B21S06	45506961	3.0 – 11.0	15	M5	1220	1.20	386	19	40	3/8"
QE4SC015B41S06	16986739	3.0 – 11.0	15	M5	1220	1.20	437	19	74	3/8"
QE4SC020B20S06		4.0 – 16.0	20	M6	900	1.20	386		40	3/8"
QE4SC020B21S06	45659398	4.0 – 16.0	20	M6	900	1.20	386	19	40	3/8"
QE4SC020B41S06	16986747	4.0 – 16.0	20	M6	900	1.20	437	19	74	3/8"
QE4SC025B20S06		5.0 – 20.0	25	M6	710	1.20	386		40	3/8"
QE4SC025B21S06	47100953	5.0 – 20.0	25	M6	710	1.20	386	19	40	3/8"
QE4SC025B41S06	16986754	5.0 – 20.0	25	M6	710	1.20	437	19	74	3/8"
QE6SC020F41S06	18427369	4.0 – 16.0	20	M6	1840	2.10	501	19	113	3/8"
QE6SC020F61S06	16986762	4.0 – 16.0	20	M6	1840	2.10	544	38	144	3/8"
QE6SC020F81S06	18427377	4.0 – 16.0	20	M6	1840	2.10	594	38	195	3/8"
QE6SC028F41S06	16993685	6.0 – 22.0	28	M8	1360	2.10	501	19	113	3/8"
QE6SC028F61S06	16986770	6.0 – 22.0	28	M8	1360	2.10	544	38	144	3/8"
QE6SC028F81S06		6.0 – 22.0	28	M8	1360	2.10	594	38	195	3/8"
QE6SC033F41S06	18427385	7.0 – 26.0	33	M8	1130	2.10	501	19	113	3/8"
QE6SC033F61S06	16986788	7.0 – 26.0	33	M8	1130	2.10	544	38	144	3/8"
QE6SC033F81S06	48376503	7.0 – 26.0	33	M8	1130	2.10	594	38	195	3/8"
QE6SC050F41S08	18427419	10.0 – 40.0	50	M10	760	2.10	501	19	113	1/2"
QE6SC050F61S08	16986796	10.0 – 40.0	50	M10	760	2.10	544	38	144	1/2"
QE6SC050F81S08		10.0 – 40.0	50	M10	760	2.10	594	38	195	1/2"
QE6ZC020P42S06	10567030IRI	4.0 – 16.0	20	M6	1840	2.50	664	51	130	3/8"
QE6ZC020P52S06	16986846IRI	4.0 – 16.0	20	M6	1840	2.50	647	51	130	3/8"
QE6ZC028P52S06	16987315	5.0 – 20.0	28	M8	1360	2.50	647	51	130	3/8"
QE6ZC033P52S06	10567436IRI	7.0 – 26.0	33	M8	1130	2.50	647	51	130	3/8"
QE6ZC050P52S06	16678039	10.0 – 40.0	50	M10	760	2.50	647	51	130	3/8"
QE8SC055F41S08	80240401	11.0 – 44.0	55	M10	1470	3.00	557	19	109	1/2"
QE8SC055F61S08	16986804	11.0 – 44.0	55	M10	1470	3.00	608	38	140	1/2"

DC Fixtured Wrenches

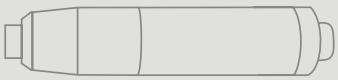
QE Electric Fixtured Wrenches | Inline



Transducer

Ref.	CCN	Nm	Nm MAX		1 min rpm	kg	mm	mm	mm	in
QE8SC055F81S08	47087101	11.0 – 44.0	55	M10	1470	3.00	659	38	191	½"
QE8SC070F41S08	18427575	14.0 – 56.0	70	M10	1160	3.00	557	19	109	½"
QE8SC070F61S08	16986812	14.0 – 56.0	70	M10	1160	3.00	608	38	140	½"
QE8SC070F81S08		14.0 – 56.0	70	M10	1160	3.00	659	38	191	½"
QE8SC090F41S08	18427609	18.0 – 72.0	90	M10	900	3.00	557	19	109	½"
QE8SC090F61S08	16985517	18.0 – 72.0	90	M10	900	3.00	608	38	140	½"
QE8SC090F81S08	16985509	18.0 – 72.0	90	M10	900	3.00	659	38	191	½"
QE8SC150F41S08	80165962	30.0 – 120.0	150	M12	500	3.40	572	19	109	½"
QE8SC150F61S08	16986820	30.0 – 120.0	150	M12	500	3.40	623	38	140	½"
QE8SC150F81S08	45634656	30.0 – 120.0	150	M12	500	3.40	674	38	191	½"
QE8SC230F02S12		45.0 – 185.0	230		340	5.50	812	50	241	¾"
QE8SC230F22S12		45.0 – 185.0	230		340	5.50	853	50	291	¾"
QE8SC230F62S12	16989055	45.0 – 185.0	230		340	5.50	710	50	140	¾"
QE8SC230F82S12	16986838	45.0 – 185.0	230		340	5.50	761	50	191	¾"
QE8ZC055F52S06	10568376IRI	11.0 – 44.0	55	M10	1470	3.00	723	51	130	⅜"
QE8ZC070F02S08		14.0 – 56.0	70	M10	1160	3.00	888	51	295	½"
QE8ZC070F22S08		14.0 – 56.0	70	M10	1160	3.00	939	51	346	½"
QE8ZC070F62S08	18427682	14.0 – 56.0	70	M10	1160	3.00	786	51	194	½"
QE8ZC070F82S08		14.0 – 56.0	70	M10	1160	3.00	837	51	245	½"
QE8ZC090F02S08		18.0 – 72.0	90	M10	900	4.00	888	51	295	½"
QE8ZC090F22S08		18.0 – 72.0	90	M10	900	4.00	939	51	346	½"
QE8ZC090F62S08	16985491	18.0 – 72.0	90	M10	900	4.00	786	51	194	½"
QE8ZC090F82S08		18.0 – 72.0	90	M10	900	4.00	837	51	245	½"
QE8ZC150F02S08		30.0 – 120.0	150	M12	500	4.00	888	51	295	½"
QE8ZC150F22S08	42709741	30.0 – 120.0	150	M12	500	4.00	939	51	346	½"
QE8ZC150F62S08	42712901	30.0 – 120.0	150	M12	500	4.00	786	51	194	½"
QE8ZC150F82S08		30.0 – 120.0	150	M12	500	4.00	837	51	245	½"

DC Fixtured Wrenches
QM Electric Spindles | Inline

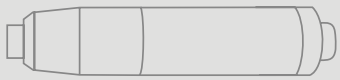


Transducer

Ref.	CCN	Nm	Nm MAX		1 min rpm	kg	mm	mm	mm	in
QM3SS008H22S06	18453217	2.0 – 6.0	8	M4	1382	2.70	599	50	300	⅜"
QM3SS008H22S08	18453225	2.0 – 6.0	8	M4	1382	2.70	599	50	300	½"
QM3SS008H62S06	18453175	2.0 – 6.0	8	M4	1382	2.40	449	50	150	⅜"
QM3SS008H62S08	18453183	2.0 – 6.0	8	M4	1382	2.40	449	50	150	½"
QM3SS008H92S06	18453191	2.0 – 6.0	8	M4	1382	2.40	524	50	225	⅜"
QM3SS008H92S08	18453209	2.0 – 6.0	8	M4	1382	2.50	524	50	225	½"
QM3SS012H22S06	18453266	3.0 – 10.0	12	M4	927	2.70	599	50	300	⅜"
QM3SS012H22S08	18453274	3.0 – 10.0	12	M4	927	2.70	599	50	300	½"
QM3SS012H62S06	18427690	3.0 – 10.0	12	M4	927	2.40	449	50	150	⅜"
QM3SS012H62S08	18453233	3.0 – 10.0	12	M4	927	2.40	449	50	150	½"
QM3SS012H92S06	18453241	3.0 – 10.0	12	M4	927	2.50	524	50	225	⅜"
QM3SS012H92S08	18453258	3.0 – 10.0	12	M4	927	2.50	524	50	225	½"
QM3SS016H22S06	18453324	4.0 – 13.0	16	M4	686	2.70	599	50	300	⅜"
QM3SS016H22S08	18453332	4.0 – 13.0	16	M4	686	2.70	599	50	300	½"
QM3SS016H62S06	18453282	4.0 – 13.0	16	M4	686	2.40	449	50	150	⅜"
QM3SS016H62S08	18453290	4.0 – 13.0	16	M4	686	2.40	449	50	150	½"
QM3SS016H92S06	18453308	4.0 – 13.0	16	M4	686	2.50	524	50	225	⅜"
QM3SS016H92S08	18453316	4.0 – 13.0	16	M4	686	2.50	524	50	225	½"
QM3SS020H22S06	18453373IRI	5.0 – 16.0	20	M5	545	2.70	599	50	300	⅜"
QM3SS020H22S08	18453381	5.0 – 16.0	20	M5	545	2.70	599	50	300	½"
QM3SS020H62S06	18427708	5.0 – 16.0	20	M5	545	2.40	449	50	150	⅜"
QM3SS020H62S08	16992604	5.0 – 16.0	20	M5	545	2.40	449	50	150	½"
QM3SS020H92S06	18453357	5.0 – 16.0	20	M5	545	2.50	524	50	225	⅜"
QM3SS020H92S08	18453365	5.0 – 16.0	20	M5	545	2.40	524	50	225	½"
QM5SS035H22S06	18453431	9.0 – 28.0	35	M6	590	4.20	673	50	300	⅜"
QM5SS035H22S08	18453449	9.0 – 28.0	35	M6	590	4.20	673	50	300	½"
QM5SS035H62S06	18453399IRI	9.0 – 28.0	35	M6	590	3.90	523	50	150	⅜"
QM5SS035H62S08	18453407	9.0 – 28.0	35	M6	590	3.90	523	50	150	½"
QM5SS035H92S06	18453415	9.0 – 28.0	35	M6	590	4.00	598	50	225	⅜"
QM5SS035H92S08	18453423	9.0 – 28.0	35	M6	590	4.00	598	50	225	½"
QM5SS055H22S06	18453480	14.0 – 44.0	55	M6	507	4.20	673	50	300	⅜"
QM5SS055H22S08	18453498	14.0 – 44.0	55	M6	507	4.20	673	50	300	½"
QM5SS055H62S06	16992612	14.0 – 44.0	55	M6	507	3.90	523	50	150	⅜"
QM5SS055H62S08	18453456IRI	14.0 – 44.0	55	M6	507	3.90	523	50	150	½"
QM5SS055H92S06	18453464	14.0 – 44.0	55	M6	507	4.00	598	50	225	⅜"
QM5SS055H92S08	18453472	14.0 – 44.0	55	M6	507	4.00	598	50	225	½"

DC Fixtured Wrenches

QM Electric Spindles | Inline



Transducer

Ref.	CCN	Nm	Nm MAX		1 min rpm	kg	mm	mm	mm	in
QM5SS090H22S08	18453514	23.0 – 72.0	90	M8	280	4.20	673	50	300	½"
QM5SS090H62S08	18427716	23.0 – 72.0	90	M8	280	3.90	523	50	150	½"
QM5SS090H92S08	18453506IRI	23.0 – 72.0	90	M8	280	4.00	598	50	225	½"
QM7SS190H22S08	18453548IRI	48.0 – 152.0	190	M10	273	8.90	794	50	300	½"
QM7SS190H22S12	18453555	48.0 – 152.0	190	M10	273	8.90	794	50	300	¾"
QM7SS190H62S08	18453522	48.0 – 152.0	190	M10	273	8.40	645	50	150	½"
QM7SS190H62S12	18427724	48.0 – 152.0	190	M10	273	8.40	645	50	150	¾"
QM7SS190H92S08	18453530	48.0 – 152.0	190	M10	273	8.60	720	50	225	½"
QM7SS190H92S12		48.0 – 152.0	190	M10	273	8.60	720	50	225	¾"
QM7SS220H22S12	18453563	55.0 – 176.0	220	M10	233	8.90	794	50	300	¾"
QM7SS220H62S12	18427732IRI	55.0 – 176.0	220	M10	233	8.40	645	50	150	¾"
QM7SS220H92S12	80176076	55.0 – 176.0	220	M10	233	8.60	720	50	225	¾"
QM9SS315H22S12	18453605	79.0 – 250.0	315	M10	278	19.50	860	50	300	¾"
QM9SS315H22S16	18453613IRI	79.0 – 250.0	315	M10	278	19.60	860	50	300	1"
QM9SS315H62S12	18427740	79.0 – 250.0	315	M10	278	18.60	711	50	150	¾"
QM9SS315H62S16	18453571	79.0 – 250.0	315	M10	278	18.70	711	50	150	1"
QM9SS315H92S12	18453589	79.0 – 250.0	315	M10	278	19.10	786	50	225	¾"
QM9SS315H92S16	18453597	79.0 – 250.0	315	M10	278	19.20	786	50	225	1"
QM9SS435H22S12	18453662	109.0 – 346.0	435	M12	203	19.50	860	50	300	¾"
QM9SS435H22S16	18453670	109.0 – 346.0	435	M12	203	19.60	860	50	300	1"
QM9SS435H62S12	18453621	109.0 – 346.0	435	M12	203	18.60	711	50	150	¾"
QM9SS435H62S16	18453639	109.0 – 346.0	435	M12	203	18.70	711	50	150	1"
QM9SS435H92S12	18453647	109.0 – 346.0	435	M12	203	19.10	786	50	225	¾"
QM9SS435H92S16	18453654	109.0 – 346.0	435	M12	203	19.20	786	50	225	1"
QM9SS520H22S12	18453720	130.0 – 410.0	520	M12	170	19.50	860	50	300	¾"
QM9SS520H22S16	18453738	130.0 – 410.0	520	M12	170	19.60	860	50	300	1"
QM9SS520H62S12	18453688	130.0 – 410.0	520	M12	170	18.60	711	50	150	¾"
QM9SS520H62S16	18453696	130.0 – 410.0	520	M12	170	18.70	711	50	150	1"
QM9SS520H92S12	18453704	130.0 – 410.0	520	M12	170	19.10	786	50	225	¾"
QM9SS520H92S16	18453712	130.0 – 410.0	520	M12	170	19.20	786	50	225	1"
QM9SS650H62S16	18427757IRI	163.0 – 516.0	650	M14	136	18.70	711	50	150	1"
QM9SS650H92S16	18453746	163.0 – 516.0	650	M14	136	19.60	786	50	225	1"
QM9SS01KH62S16	80204761	250.0 – 800.0	1000	M16+	51	24.50	857	50	150	1"
QM9SS15CH62S24	80220718	250.0 – 1300.0	1500	M16+	51	32.00	869	50	150	1½"
QM9SS18CH62S24	80220734	270.0 – 1500.0	1800	M16+	37	32.00	869	50	150	1½"
QM9SS20CH62S24	80220759	300.0 – 1700.0	2000	M16+	31	32.00	869	50	150	1½"
QM9SS22CH62S24	45487535	330.0 – 1900.0	2250	M16+	25	32.00	869	50	150	1½"

DC Fixtured Wrenches
Accessories

Power cable (QE & QM)

Type of cable	Length	Partnumber	CCN
Standard tool cable	3 m	GEA40-CORD-3M	22039887
	6 m	GEA40-CORD-6M	80162043
	10 m	GEA40-CORD-10M	80101959
Standard 90˚cable (90˚on side tool)	3 m	GEA40-CORD-3M-90	80101496
	6 m	GEA40-CORD-6M-90	80162050
	10 m	GEA40-CORD-10M-90	80120785
Flexible power cable	3 m	CPS2-CORD-3M	45553393
	6 m	CPS2-CORD-6M	45612173
	10 m	CPS2-CORD-10M	45612199
	15 m	CPS2-CORD-15M	47106091
	50 m	CPS2-C0RD-50M	47106091
	6 m/90°	CCPS2-CORD-6M-90	45612272
Extension cable	10 m	GEA40-EXT-10M	80120702
	20 m	GEA40-EXT-20M	80120793
	40 m	GEA40-EXT-40M	80120801
90° Extension cable (Controller side)	1.5 m	GEA40-INT-02	80181423
	2 m	GEA40-INT-04	80181449
	2.5m	GEA40-INT-06	80181464
	3 m	GEA40-INT-08	80181480

GEA40-CORD-3M-90

QE2 Motors

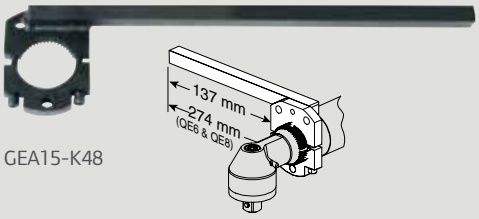
Tools are supplied with no front-end attachment, so that customized heads (including screwfeed attachments) can easily be assembled to the tool. To order a QE2 motor use the same model number as for the standard pistol and inline tool, but replace the last five digits with “MO” (e.g QE2PS007PMO).

QE2PT010PM0

QE2SP005PM0

DC Fixtured Wrenches
Accessories

Accessories for QE Screwdrivers



GEA15-K48

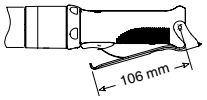
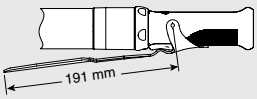
7L-365

GEA40-K98EL

GEA40-K364

GEM120-K48

GEA4-K48

		Partnumber	CCN
Square mounting plate[1]	QE4 Series	GEA4-K48	4696456
	QE6 & QE8	DAM120-K48	4340535
Flanged mounting plate[1]	QE4 Series	15EA-K48	
	QE6 & QE8	GEM120-K48	80112790
Short lever kit 	QE4, QE6 & QE8	GEA40-M98SL	80096985
Extended lever kit 	QE4, QE6 & QE8	GEA40-K98EL	80146541
Reaction bar kit[1]	QE4 Series	GEA15-K48	80132509
	QE4TS Series	GEPTS15-K48	16046021
	QE6 & QE8	DEA120-K48[2]	4642369
Swivel hanger	QE2 Series	CPS2-A365	45592979
	QE4 Series	GEA15-K364	45484722
	QE6 & QE8	GEA40-K364	4695565
Suspension bail	QE2, QE4 QE6, QE8	7L-365	3732922

(1) Require short coupling nut, ref. DAA4-27
(2) With a maximum torque of 150 Nm and for non-flanged models only

Angle Head Boots

Partnumber	CCN	Description
131995	53454708	{QE2…all models} {QE4…013/ …020}
131997	53454724	{QE4…027/ …034} {QE6…030/ …040}
GEA40-172	80095409	{QE6…055/ …080} {QE8…065/ …070/ …090}
GEA40-173	80095789	{QE8…115/ …150}
GEA240-173	45533766	{QE8…225}

Control System – DC Tools

Our controllers are powerfully precise, fully programmable and can be seamlessly integrated with our tools to deliver real performance advantages. We pack extensive torque and angle control as well as process management capabilities into a small package. Standard features like Ethernet and I/O connections on every unit mean no hidden charges for maximizing communication to your network.

Control System – DC Tools

Control System – DC Tools

Fastening Control System for QE & QM Series Electric Tools

Insight Display IC12D

Professional 1/4 VGA 216-color display is visible from 20 ft (6.1 m).

Standard Ethernet and I/O connections optimize communication and line integration.

Program up to eight basic fastening configurations and access all 256 stored in memory.

Removable cover provides easy access to connections and terminals.

Parameter Transfer Key (PTK) enables quick upload, recovery, transfer, and storage of configuration sets.

The controller has 1,000 cycles of end-of-run automatic data storage.

Dual-mode power supply: 90 – 120 VAC and 200 – 240 VAC.

Internal maximum ambient operating temperatures of 0 – 50°C ensure reliable use in demanding conditions without risk of overheating.

Easy installation and set-up with convenient bracketing system.

Insight Module IC1M

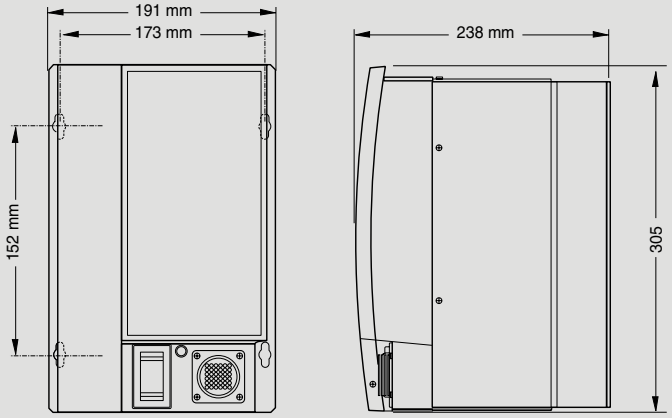
200 cycles of end-of-run automatic data storage.

Use ICS Connect to program and select from 256 basic configurations stored in memory.

One-line digital display shows torque or angle.

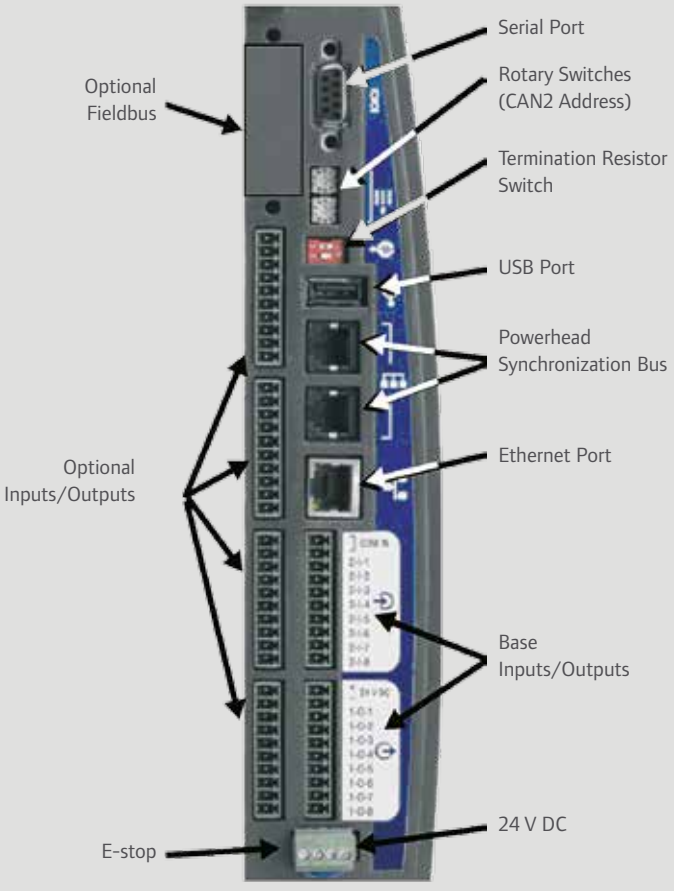
Control System – DC Tools

Fastening Control System for QE & QM Series Electric Tools



Insight IC12 Display & IC12 Module

Models	Numbers of Tools or Spindle
Measurement accuracy	Torque: ±0.2% of torque full scale ±1 count of angle (degrees)
Measurement resolution	±0.025% of torque full scale
Torque transducer bridge excitation	±5 VDC/GND
Torque transducer zero offset/drift compensation	±0.4% of full scale
Input Signal Sensitivity	2.0 mV/V
Calibration	Values read from spindle memory Automatic digital correction
Frequency response (torque filter)	Selectable 75 Hz, 150 Hz, 350 Hz, 500 Hz, 750 Hz
Keypad (IC-D only)	Membrane keypad containing four hot keys, four function keys, numerical keypad, and directional keypad
Display	IC-D-3.5-inch diagonal, 320 px by 240 px, 8-bit 65K backlit color (QVGA) flat panel display. IC-M-5-character, 7-segment numerical LED display
Parameter sets	256
Number of cycles stored in memory	IC-D: 1,000. IC-M: 200
Statistics Data Memory	100,000 per spindle
Communications	Serial RS232, Ethernet, USB, Optional Profibus or DeviceNet
I/O	8 inputs/8 outputs, with behavior assignable through ICS software. With optional I/O card, an additional 16 inputs and outputs are available.
Indicators	Power ON lamp
Optional devices	DeviceNet Card, Profibus Card, Additional I/O, Cabinet Mounting Bracket
Input voltage	Single Phase 120 Volts, 50/60 Hz, 16 Amps Single Phase 230 Volts, 50/60 Hz, 8 Amps
Ambient operating conditions	0 – 50°C, 20/90% non-condensing humidity
Enclosure	IP-52
System Weight	5.6 kg (12.4 pounds)



Control System – DC Tools

Fastening Control System for QE & QM Series Electric Tools

Insight IC12 Display & IC12 Module

Model identification codes
Example: **IC12D3A1AWS**

Insight Display IC12D

Insight Module IC12M

Insight Product Definition

Models	Numbers of Tools or Spindle	Interface	Power Supply
IC └ INSIGHT Controller	**12** └ one tool/spindle	**D** | **M** └ MODULE, without user interface └ DISPLAY, with user interface	**1** | **2** | **3** └ 230 VAC, cable pigtail, European standard └ 220 V, US cable pigtail └ 115 VAC, US plug

Optional equipment

I/O (input & output options)	Communication Package	Parameter Transfer Key	Mounting Style	Software Package
A | **B** └ One additional I/O board for single spindle └ Standard I/O interface board	**1** | **3** | **4** | **5** | **6** | **7** └ Option 1 + Profinet └ Option 1 + EtherNet/IP, Modbus-TCP └ Option 1 + Interbus-S └ Option 1 + Devicenet └ Option 1 + Profibus └ Serial and Ethernet	**A** | **B** └ Parameter transfer key included └ Standard (no key)	**W** | **C** └ Cabinet mount └ Standard wall mount	**S** | **XX** └ Customized software └ Standard

Control System – DC Tools

Fastening Control System for QE & QM Series Electric Tools

Accessories for Insight IC12 Display & Insight IC12 Module

Remote selector switch
4 positions - IC-SELECT-4
8 positions - IC-SELECT-8

Emergency stop button
IC-ESTOP

Reset station
IC-PALM-RESET

Signal tower, type LCE-FB
IC-LIGHT-TOWER

Socket tray
8 positions – IC-SOCKET-8

Socket tray
4 positions – IC-SOCKET-4

Parameter transfer key
PC 80150113

Wall mounting bracket - 3002007

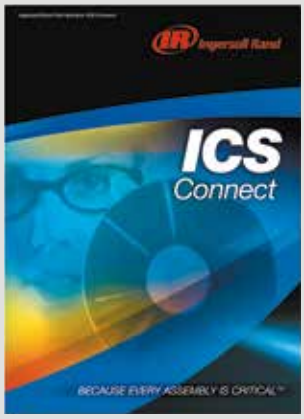
Cabinet mounting bracket - 3002010

Bit Selector Tray Cables
IC-19PIN-5M
CCN 45491073
IC-19PIN-10M
CCN 45473048

Socket Selector Tray Cables
IC-10PIN-6M
CCN 45473048

Control System – DC Tools

Fastening Control System for QE & QM Series Electric Tools



Paired with an Insight IC12D or IC12M controller and a PC computer, our groundbreaking ICS Software Suite makes it possible to more precisely control and monitor your fastening process.

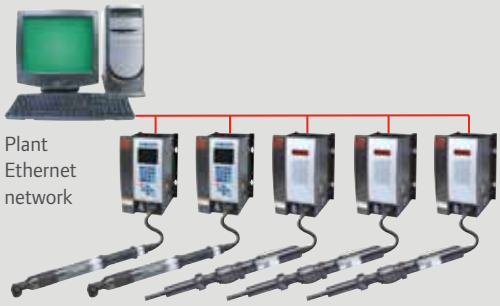
ICS Connect

ICS Connect provides operators the ability to access and program basic fastening strategies as well as view cycle data with a single IC12D or IC12M controller via a one-to-one Ethernet connection. ICS Connect is supplied standard with all IC12D and IC12M controllers.

System requirements:
PC computer with
Windows 2000 or XP,
RJ45 connection,
1024 x 768 screen or above.

ICS Network

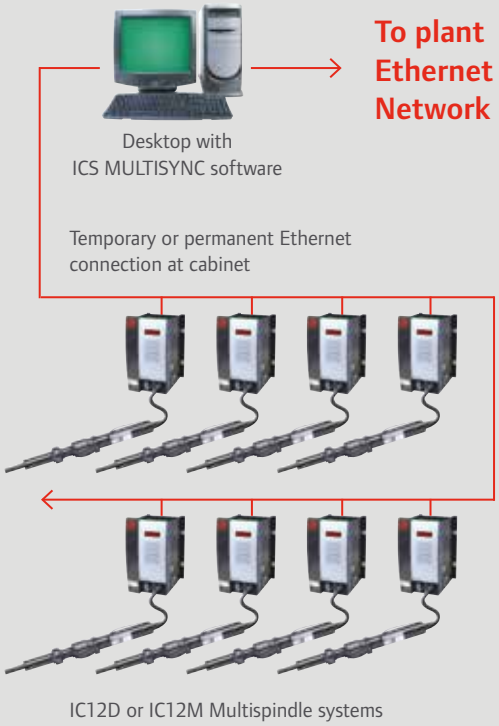
ICS Network enables programming of multiple IC12D and IC12M controllers connected through a local area network (LAN) or direct connection. This option also allows operators to program advanced fastening strategies including yield and prevailing torque control.



IC12D and IC12M systems

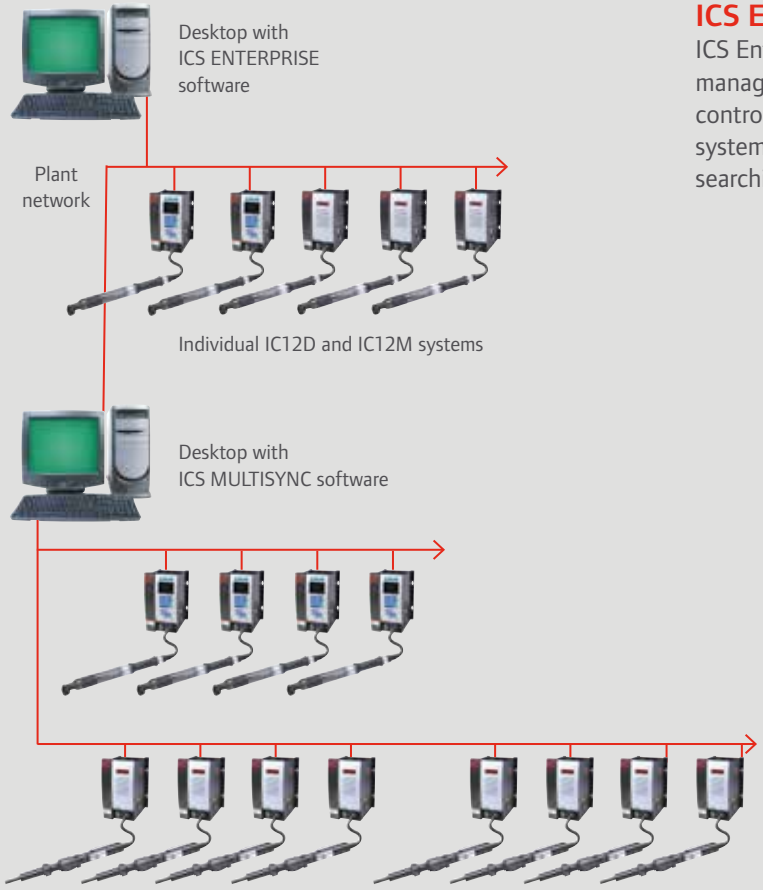
Control System – DC Tools

Fastening Control System for QE & QM Series Electric Tools



ICS MultiSync

The ICS MultiSync package facilitates set-up and control of multispindle systems consisting of up to 100 spindles in groups of up to 40 spindles. This package also offers advanced multispindle fastening strategies, remote monitoring, and data archiving.



ICS Enterprise

ICS Enterprise offers advanced programming and management of a network of up to 500 IC12D or IC12M controllers using QE tools, QM spindles, or multispindle systems. Also enables ODBC-compliant database archiving, searching, and statistics processing.

Insight Software Feature Matrix

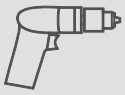
	Insight IC12M	Insight IC12D	Via ICS Connect	Via ICS Network	Via ICS MultiSync	Via ICS Enterprise
SOFTWARE PROGRAMMING						
Max. Number of Configs.	256	256	Unlimited	Unlimited	Unlimited	Unlimited
Max. Number of Steps	32 per config.	32 per config.	1	32 per config.	32 per config.	32 per config.
Prog. Params. Editable		•	•	•	•	•
Gang Count		•	•	•	•	•
Autoincrement		•	•	•	•	•
Quick Setup		•	•	•	•	•
Advanced Setup				•	•	•
Config. Name		Display only	•	•	•	•
CW/CCW Tightening		•	•	•	•	•
Tubenut Operation		•	•	•	•	•
Adjustable Acceleration				•	•	•
Optional EOR for Each Step				•	•	•
Synchronizing Spindles					•	•
Copy Protection			•	•	•	•
DATA ARCHIVING						
No. of Stored EOR Records	200	1000	Unlimited (manual)	Unlimited (manual)	Unlimited (auto.)	Unlimited (auto.)
Databases data can be transferred to					ODBC	ODBC
Back-up data to server					•	•
POWERHEAD						
Powerhead Operation					•	•
Max. No. of Spindles in Powerhead					40	40
Max. No. of Groups					8	8
Fault Backout					•	•
Fault Backout Options					None, spindle, group, powerhead	
Final Fault Backout					•	•
Final Fault Backout Options					None, spindle, group, powerhead	
Synchronization Method					Via CANBUS	
SOFTWARE GENERAL						
Date/Time Set		•	•	•	•	•
System Name			•	•	•	•
Display Software versions		•	•	•	•	•
Language Selection		•	Only ICS Language	Only ICS Language	Only ICS Language	Only ICS Language
NTP Function		•	•	•	•	•
E.O.R. Onscreen Filter			•	•	•	•
E.O.R. Viewable Onscreen	Primary value only	•	•	•	•	•
Load New Software via Ethernet	•	•	•	•	•	•
TOOL PROGRAMMING						
TR Adjust		•	•	•	•	•
ASC Adjust		•	•	•	•	•
TR and ASC Reset		•	•	•	•	•
Auto Calibration Function			X with ETA	X with ETA direct connect only		
Torque Units Selection		•	•	•	•	•
Start Mode Selection		•	•	•	•	•
Tool Operation Selection		•	•	•	•	•
Special Fn Switch Programming		•	•	•	•	•
Configuration Mode Selection		•	•	•	•	•
PM Alarms				•	•	•
View Memory Chip Data			•	•	•	•
PASSWORDS						
Number of Passwords	0	1	Unlimited	Unlimited	Unlimited	Unlimited
Auto Timer Lockout			•			
Adjustable Lockout Timer			•			
STATISTICS						
Sample and Population Stats			•	•	•	•
Stats Values Calculated		Cp, Cpk, Mean, SD, Capability, CAM, Max. value, Min. value % No. Rejects, % No Pass, No. Rej Hi, No. Rej Lo, Mean Shift, Range, No. for sigma	Cp, Cpk, Mean, SD, Capability, CAM, Max value, Min Value % No. Rejects, % No Pass, No. Rej Hi, No Rej Lo, Mean Shift, Range, No.for sigma, Target.			
Stats Alarms				•	•	•
Stats Alarms Output	•	•				
Max. Sample Stats Size	200	1000	1000	1000	1000	1000
Powerhead Stats		•			•	•
Mean Range Charts				•	•	•
Histograms				•	•	•
Pareto Chart				•	•	•
Stats Email Alarms					•	•
Stats can be calculated from user defined data				•	•	•
TIGHTENING CURVES						
Curve Types			Torque vs. Angle, Torque vs. Time, Current vs. Time, Current vs. Angle			
Max. No. of Curves Stored on Cont.	Last Reject Last Cycle	Last Reject Last Cycle				
Display Curves On Screen				•	•	•
TIGHTENING CURVES						

	Insight IC12M	Insight IC12D	Via ICS Connect	Via ICS Network	Via ICS MultiSync	Via ICS Enterprise
Print Tightening Curves				•	•	•
Print Tightening Curve Data				•	•	•
Full View				•	•	•
Zoom Function				•	•	•
No. of Curves that can be Overlaid				1	10	10
Archive Curves					•	•
Parameter Values Shown on Curve				•	•	•
TIGHTENING STRATEGIES						
Torque Control		•	•	•	•	•
Torque Control with Y. Override				•	•	•
Angle Control		•	•	•	•	•
Angle Control with Y. Override				•	•	•
Yield Control				•	•	•
Prevailing Torque				•	•	•
Drag Torque				•	•	•
Backout				•	•	•
Fault Backout					•	•
Final Fault Backout					•	•
Retorque				•	•	•
Wait				•	•	•
Jog				•	•	•
Bypass					•	•
COMMUNICATIONS						
Serial E.O.R. Data Out		•	•	•	•	•
Serial Custom E.O.R. Data			•	•	•	•
Host Data Out		•	•	•	•	•
PFCS						
Barcode Passive				•	•	•
Barcode Active				•	•	•
Barcode setup onscreen				•	•	•
Field Bus setup onscreen				•	•	•
Ethernet Programming			•	•	•	•
DIAGNOSTICS						
Error Codes	•					
Text Errors		•	•	•	•	•
System Test		•	•	•	•	•
Store System Test Results			•	•	•	•
View Input Statuses		•	•	•	•	•
Set Output Statuses		•	•	Only if connected 1 to 1	•	
View Outputs			•	•	•	•
Assignable Inputs			•	•	•	•
Assignable Outputs			•	•	•	•
Event Log			•	•	•	•
View Event Log			•	•	•	•
Tool Test		•	•	Only if connected 1 to 1	•	
Lamp Test		•	•	Only if connected 1 to 1	•	
HELP						
HelpOn Screen Help Menu			•	•	•	•
Wizard Text		•				
PRINTED REPORTS						
No. of Reports	0	0	5	6	9	11
Report Types			Cycle Log, Stats, Parameter Dump, Diagnostics, Event log			
				+Tightening, Curve	+Tightening, Curve Histogram, Pareto, Mean/Range	+Tightening, Curve Histogram, Pareto, Mean/Range, VIN, Custom
Parallel Output			•	•	•	•
Export to File			•	•	•	•
HARDWARE						
Screen Size	14 mm high x 5 character	9.6 cm (9/16 in) diag				
Screen Type	Red LED	1/4 VGA Color LCD	XVGA or better	XVGA or better	XVGA or better	XVGA or better
Keypad		•	•	•	•	•
Keypad Type		25 key Membrane	PC Keyboard	PC Keyboard	PC Keyboard	PC Keyboard
Status Lights		On Screen				
Power On Indication	•	•				
GFI	•	•				
Mounting Design	Wall or Cabinet mounting plate					
Field Bus	X (optional)	X (optional)				
No. of I/O	Base 8, Max 24	Base 8, Max 24				
Type of I/O	Opto	Opto				
Serial Port	X (1)	X (1)				
Ethernet	•	•				
Max. Number of Spindles	1	1	1	500	100	500
Method of Identifing Physical Location	Rotary dial switch	Rotary dial switch				
CCT Breaker Switch	•	•				
WEIGHT						
Weight	5.6 kg (12.4 lb)	5.6 kg (12.4 lb)				

Air Screwdrivers

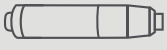
Ingersoll Rand offers a full line of production fastening equipment, including air screwdrivers, nutrunners, and fixtured systems in a broad range of configurations. Whether you need a solution for a single, specific application or an entire assembly line, you can trust our century of tool design experience to deliver tools that are durable enough for your toughest high-volume applications, yet still deliver the speed and accuracy you need. Our broad product line offers the flexibility to choose the exact solution to fit your application and maximize your productivity.

Air Screwdrivers



Pistol

Angle



Inline

Air Screwdrivers
Series Information

1 Series

Time-tested design provides repeatable results at an economical price

- Torque range 0.3 to 5.2 Nm
- Speed 500 to 2,800 rpm
- Compact and lightweight
- Coated grip for operator comfort

1RAMC1

1RLM2S5

1RLMC1

41 Series

Time-tested design known for its durability and performance

- Torque range 1.1 to 14.7 Nm
- Speed 600 to 2,500 rpm
- One-handed reverse lever
- Offers precise torque control in a quiet and ergonomic package

41PC10TSQ4-EU

41AA6LTS6-EU

41SC10LTQ4-EU

5 Series

Durability and performance

- Torque range 1.5 to 12.5 Nm
- Speed 900 to 2,000 rpm
- Proven quality and durability

5RANC1-EU

5RLN2C6-EU

Air Screwdrivers
Series Information

7 Series

Durability and performance

- Torque range 1.7 to 29.9 Nm
- Speed 500 to 1,700 rpm
- Proven quality and reliability

7RAMC1-EU

7RLL2C6-EU

9 Series

Durability and performance

- Torque 111.5 Nm
- Speed 300 rpm
- Convenient push-button reverse
- Proven quality and reliability
- Torque control through pressure regulation or operator control

9RSQ83-EU

BALD Series

High-precision Nutrunner

- Torque range 1 to 31 Nm
- Speed 140 to 1,200 rpm
- Modular design for easy and low cost maintenance
- Optional signal outlet for cycle control (dual information kit: add "-DI" to model)
- High-quality fastenings through precise torque control

BALD1202RD5-R18-S4

Air Screwdrivers
Series Information

LD Series

High-precision screwdriver

- Torque range 0.6 to 15 Nm
- Speed 180 to 1,700 rpm
- Compact and lightweight
- Quick reverse trigger
- Modular design for easy and low cost maintenance
- Optional signal outlet for cycle control (dual information kit: add "-DI" to model)
- Low-maintenance cost screwdriver
- High-quality fastenings through precise torque control

LD1202RP5-Q4-RM

LD1202RD5

Q2 Series

Set the standards for assembly tools ergonomics

- Torque range 0.3 to 11.6 Nm
- Speed 250 to 2,000 rpm
- Compact and lightweight, well-balanced design
- Top or bottom air inlets allow for optimal mounting on pistol models
- Speed adjustment facility through the exhaust on angle and straight models
- Egg-shaped housing employs a natural fit on inline models
- Part numbers starting with QP1, QA1, QS1 according to their shape

QP1T10C1TD

QA1L05C1LD

QS1T20C1D

QA Series

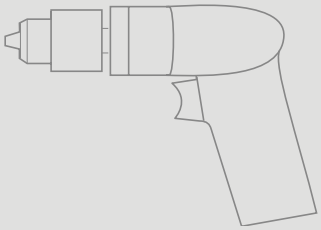
Accuracy, durability and flexibility combine to maximize productivity

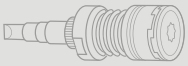
- Torque range 5 to 225 Nm
- Speed 90 to 1,025 rpm
- Adjustable shut-off clutch provides repeatability that improves joint quality
- Quick, precise shut-off limits scatter and torque reaction
- Lube-free motor
- Ergonomic grip for operator comfort
- Recommended for applications where precise torque control is required

QA4AALS011BP25S06

QA4ASLS012BP20S04

Air Screwdrivers
Pistol





Adjustable cushion clutch

Adjustable shut-off clutch

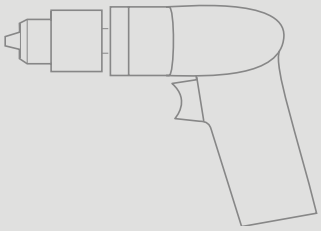
Direct drive

Positive jaw clutch

Ref.	CCN	Nm	Nm	Nm		1 min rpm	kg	mm	mm	in	MAX l/s
TRIGGER + PUSH START											
QP1T15C1TD	01383405	0.3 – 1.1	**0.9 – 3.1**		M4	1500	0.84	223	15	¼"	7.5
QP1T10C1TD	01383413	0.3 – 1.1	0.9 – 2.5	**1.5 – 4.5**	M5	1000	0.84	223	15	¼"	7.5
TRIGGER START											
1RANC1	04724514	**0.3 – 1.8**	0.5 – 2.6	1.1 – 3.4	M4	1000	0.68	217	17	¼"	6.1
1RAMC1	04724506	**0.5 – 1.8**	0.7 – 2.3		M3	1650	0.68	217	17	¼"	6.1
QP1S15C1TD	45602349	0.3 – 1.1	**0.9 – 3.1**		M4	1500	0.84	223	15	¼"	7.5
QP1S10C1TD	01383512	0.3 – 1.1	0.9 – 2.5	**1.5 – 4.5**	M5	1000	0.84	223	15	¼"	7.5
QP1S05C1TD	01383520	0.3 – 1.1	0.9 – 3.2	**1.5 – 5.4**	M5	500	0.84	223	15	¼"	7.5
5RANC1-EU	01337740	**1.5 – 6.2**	6.2 – 8.0		M6	900	1.30	241	21	¼"	8.0
41PC17TSQ4-EU	01341445	1.7 – 4.5	**1.7 – 6.0**		M5	1700	1.40	239	20	¼"	9.4
41PC10TSQ4-EU	01341437	1.7 – 4.5	**1.7 – 9.0**		M6	1000	1.40	239	20	¼"	9.4
7RAMC1-EU	01338367	**2.3 – 9.7**	2.9 – 12.5		M6	1000	1.50	268	22	¼"	12.7
41PC8TSQ4-EU	01340033	1.7 – 4.5	1.7 – 9.0	**5.1 – 11.3**	M6	800	1.40	239	20	¼"	9.4

Specifications at 6.2 bar (90 psi)

Air Screwdrivers
Pistol



Adjustable cushion clutch

Adjustable shut-off clutch

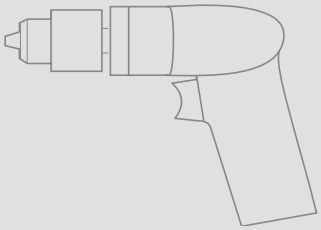
Direct drive

Positive jaw clutch

Ref.	CCN	Nm	Nm	Nm	Nm		1 min rpm	kg	mm	mm	in	MAX l/s
TRIGGER + PUSH START												
1RTNS1	04724464		**0.3 – 1.8**	0.5 – 2.6	1.1 – 3.4	M4	1000	0.68	217	17	¼"	6.1
1RTMS1	04724456		**0.5 – 1.8**	0.7 – 2.3		M3	1650	0.68	217	17	¼"	6.1
QP1T20S1TD	01383249		0.3 – 1.1	**0.9 – 2.5**		M3	2000	0.84	223	15	¼"	7.5
QP1T15S1TD	45602455IRI		0.3 – 1.1	**0.9 – 3.1**		M4	1500	0.84	223	15	¼"	7.5
1RTQS1	04724472		0.3 – 1.8	0.5 – 2.6	**1.0 – 5.1**	M5	500	0.68	222	17	¼"	6.1
QP1T10S1TD	01383264		0.3 – 1.1	0.9 – 2.5	**1.5 – 4.5**	M5	1000	0.84	223	15	¼"	7.5
QP1T02S1TD	01389535IRI		0.3 – 1.1	0.9 – 3.2	**1.5 – 5.4**	M5	250	0.84	223	15	¼"	7.5
QP1T05S1TD	01383272		0.3 – 1.1	0.9 – 3.2	**1.5 – 5.4**	M5	500	0.84	223	15	¼"	7.5
41PA16TPQ4-EU	01340660		1.7 – 4.5	**2.8 – 6.8**		M5	1600	1.40	249	22	¼"	13.2
41PA10TPQ4-EU	01342567		1.7 – 4.5	2.8 – 6.8	**4.0 – 9.0**	M5	1000	1.40	249	22	¼"	13.2
41PA8TPQ4-EU	01338557		1.7 – 4.5	2.8 – 6.8	**4.0 – 11.3**	M6	800	1.40	249	22	¼"	13.2
TRIGGER START												
LD1207RP5-Q4-RM	53560553	0.6 – 1.6				M2	900	1.00	210	20	¼"	7.8
QP1S20S1TD	01383348		0.3 – 1.1	**0.9 – 2.5**		M3	2000	0.84	223	15	¼"	7.5
QP1S15S1TD	45602414		0.3 – 1.1	**0.9 – 3.1**		M4	1500	0.84	223	15	¼"	7.5
LD1214RP5-Q4	53553913	1.0 – 2.5				M3	1700	1.00	220	20	¼"	7.2
QP1S10S1TD	01383363		0.3 – 1.1	0.9 – 2.5	**1.5 – 4.5**	M5	1000	0.84	223	15	¼"	7.5
QP1S02S1TD	49817919		0.3 – 1.1	0.9 – 3.2	**1.5 – 5.4**	M5	250	0.84	223	15	¼"	7.5
QP1S05S1TD	01383371		0.3 – 1.1	0.9 – 3.2	**1.5 – 5.4**	M5	500	0.84	223	15	¼"	7.5
LD1207RP5-Q4	04367439	1.6 – 4.5				M5	900	1.00	210	20	¼"	7.8
LD2216RP5-Q4	04370219	1.8 – 3.8				M4	1600	1.20	250	20	¼"	8.7
LD2210RP5-Q4	04367520	2.1 – 5.7				M5	1000	1.20	231	20	¼"	8.7
LD2206RP5-Q4	04367496	2.3 – 9.3				M6	600	1.20	250	20	¼"	9.6
LD1202RP5-Q4	04367405	2.4 – 9.2				M6	190	1.10	230	20	¼"	7.8
41PA10TSQ4-EU	01342187		1.7 – 4.5	2.8 – 6.8	**4.0 – 9.0**	M3	1000	1.40	249	22	¼"	13.2
41PA8TSQ4-EU	01340470		1.7 – 4.5	2.8 – 6.8	**4.0 – 11.3**	M4	800	1.40	249	22	¼"	13.2
LD2203RP5-S6	53444634	10.0 – 15.0				M8	300	1.30	271	20	⅜"	8.7

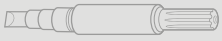
Specifications at 6.2 bar (90 psi)

Air Screwdrivers
Pistol



Adjustable cushion clutch

Adjustable shut-off clutch



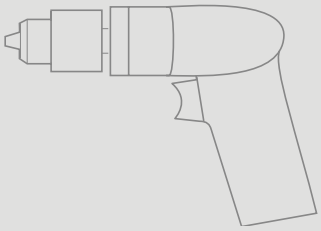
Direct drive

Positive jaw clutch

Ref.	CCN	Nm		rpm	kg	mm	mm	in	l/s
TRIGGER START									
QP1S20D1TD	01383546	2.9	M3	2000	0.68	162	15	¼"	7.5
QP1S15D1TD	45602372	3.4	M4	1500	0.68	162	15	¼"	7.5
5RALD1-EU	01340587	4.0	M4	2000	0.85	184	21	¼"	8.0
QP1S10D1TD	01383561	5.2	M5	1000	0.68	162	15	¼"	7.5
41PD17TSQ4-EU	01342484	7.3	M6	1700	1.00	188	20	¼"	9.4
5RAND1-EU	01338490	8.0	M6	900	0.95	203	21	¼"	8.0
QP1S05D1TD	01383579	9.8	M6	500	0.68	162	15	¼"	7.5
41PD8TSQ4-EU	01342807	13.6	M8	800	1.00	188	20	¼"	9.4

Specifications at 6.2 bar (90 psi)

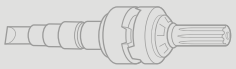
Air Screwdrivers
Pistol



Adjustable cushion clutch

Adjustable shut-off clutch

Direct drive

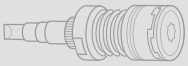


Positive jaw clutch

Ref.	CCN	Nm		rpm	kg	mm	mm	in	l/s
TRIGGER START									
41PP25TSQ4-EU	01339829	5.1	M5	2500	1.00	183	20	¼"	9.4
41PP17TSQ4-EU	01340686	7.3	M6	1700	1.10	193	20	¼"	9.4
5RANP1-EU	01338573	8.0	M4	900	1.00	203	21	¼"	8.0
7RAMP1-EU	01341387	13.1	M5	1000	1.40	237	22	¼"	12.7
41PP8TSQ4-EU	01341296	13.6	M8	800	1.10	193	20	¼"	9.4
7RANP1-EU	01340017	18.8	M8	700	1.40	237	22	¼"	12.7

Specifications at 6.2 bar (90 psi)

Air Screwdrivers
Angle



Adjustable cushion clutch

Adjustable shut-off clutch

Direct drive

Ref.	CCN	Nm	Nm	Nm	rpm	kg	mm	mm	mm	in	l/s
LEVER TO START											
QA1L12C1LD	01380286	0.4 – 1.3	**1.1 – 3.7**		1270	0.95	302	34	13	¼"	0.0
5RLN2C6-EU	01338359	**1.7 – 9.1**	5.7 – 12.5		600	1.50	334	33	13	⅜"	8.0
7RLL2C6-EU	01340371		**1.7 – 11.3**		1400	1.50	335	33	13	⅜"	12.7
QA1L08C1LD	01380351	0.4 – 1.3	1.1 – 3.8	**1.8 – 5.3**	850	0.95	302	34	13	¼"	0.0
QA1L08C4LD	01380294	0.4 – 1.3	1.1 – 3.8	**1.8 – 5.3**	850	0.95	302	34	13	¼"	0.0
QA1L05C1LD	01380369	0.4 – 1.3	1.1 – 3.8	**1.8 – 6.4**	500	0.95	302	34	13	¼"	0.0
QA1L05C4LD	01380385	0.4 – 1.3	1.1 – 3.8	**1.8 – 6.4**	500	0.95	302	34	13	¼"	0.0
7RLL3C6-EU	01339597		**2.8 – 12.5**		1400	2.20	363	38	18	⅜"	12.7
7RLM3C6-EU	01340090		**2.8 – 14.8**		800	2.30	363	38	18	⅜"	12.7

Specifications at 6.2 bar (90 psi)

Air Screwdrivers
Angle

Adjustable cushion clutch

Adjustable shut-off clutch

Direct drive

Ref.	CCN	Nm	Nm	Nm	Nm		rpm	kg	mm	mm	mm	in	l/s
LEVER TO START													
1RLN2S3	04724522		**0.4 – 2.6**	0.8 – 3.9	1.1 – 5.2	M5	700	0.79	318	31	13	¼"	6.1
1RLN2S5	80094998		**0.4 – 2.6**	0.8 – 3.9	1.1 – 5.2	M5	700	0.79	318	33	13	¼"	6.1
1RLM2S5	04725206		**0.6 – 2.6**	0.9 – 3.4		M4	1100	0.79	318	33	13	¼"	6.1
BALD1202RD5-R18-S4-RM	53424164	1.0 – 2.0					140	1.00	315	23	9	¼"	7.7
QA1L12S1LD	01384817		0.4 – 1.3	**1.1 – 3.7**			1270	0.95	302	34	13	¼"	0.0
QA1L12S4LD	01379098		0.4 – 1.3	**1.1 – 3.7**			1270	0.95	302	34	13	¼"	0.0
QA1L12S4SD	01382381		0.4 – 1.3	**1.1 – 3.7**			1270	0.85	299	27	10	¼"	0.0
QA1L05S4SD	01379031		0.4 – 1.3	**1.1 – 4.1**			500	0.85	299	27	10	¼"	0.0
BALD1214RD5-R25-H4	04367744	1.4 – 4.0					1200	1.00	284	31	13	¼"	7.7
BALD1207RD5-R25-H4	04367702	1.4 – 5.7					650	1.00	275	31	13	¼"	7.7
BALD1207RD5-R25-S4	53558425	1.4 – 5.7					650	1.00	275	31	13	¼"	7.7
BALD1207RD5-R25-S6	53558524	1.4 – 5.7					650	1.00	275	31	13	⅜"	7.7
BALD1207RD5-R18-S4	53616991	1.8 – 4.9					650	1.00	303	23	9	¼"	7.7
QA1L08S1LD	01384809		0.4 – 1.3	1.1 – 3.8	**1.8 – 5.3**		850	0.95	302	34	13	¼"	0.0
QA1L08S4LD	01379122		0.4 – 1.3	1.1 – 3.8	**1.8 – 5.3**		850	0.95	302	34	13	¼"	0.0
QA1L08S6LD	01379668IRI		0.4 – 1.3	1.1 – 3.8	**1.8 – 5.3**		850	0.95	302	34	13	⅜"	0.0
QA1L02S1LD	89941793		0.4 – 1.3	1.1 – 3.8	**1.8 – 6.4**		250	0.95	302	34	13	¼"	0.0
QA1L02S6LD	01379643		0.4 – 1.3	1.1 – 3.8	**1.8 – 6.4**		250	0.95	302	34	13	⅜"	0.0
QA1L05S1LD	01384791		0.4 – 1.3	1.1 – 3.8	**1.8 – 6.4**		500	0.95	302	34	13	¼"	0.0
QA1L05S4LD	01379023		0.4 – 1.3	1.1 – 3.8	**1.8 – 6.4**		500	0.95	302	34	13	¼"	0.0
QA1L05S6LD	01379650		0.4 – 1.3	1.1 – 3.8	**1.8 – 6.4**		500	0.95	302	34	13	⅜"	0.0
BALD2206RD5-R25-H4	04382594	2.2 – 12.0					560	1.30	314	31	13	¼"	10.8
BALD2206RD5-R25-S4	53557682	2.2 – 12.0					560	1.30	314	31	13	¼"	10.8
BALD2206RD5-R25-S6	04367751	2.2 – 12.0					560	1.30	314	31	13	⅜"	10.8
BALD1202RD5-R18-S4	53619136	2.6 – 9.0					140	1.00	315	23	9	¼"	7.7
BALD1202RD5-R25-H4	04367686	2.6 – 9.4					140	1.00	287	31	13	¼"	7.7
41AA9LTS6-EU	01341478		2.8 – 6.6	**2.8 – 10.2**			950	1.80	361	38	15	⅜"	14.5
BALD2203RD5-R28-S6	04362331	2.8 – 31.0					170	1.80	399	32	14	⅜"	10.8
BALD2210RD5-R25-S6	04367777	3.2 – 7.5					900	1.30	314	31	13	⅜"	10.8
QA1L05S1XLD	49818032		1.4 – 4.3	**3.5 – 10.0**			500	1.03	329	34	13	¼"	0.0
QA1L05S6XLD	01380427		1.4 – 4.3	**3.5 – 10.0**			500	1.03	329	34	13	⅜"	0.0
QA1L02S1XLD	49817935		1.4 – 4.3	**3.5 – 11.5**			250	1.03	329	34	13	¼"	0.0
QA1L02S6XLD	01380104IRI		1.4 – 4.3	**3.5 – 11.5**			250	1.03	329	34	13	⅜"	0.0
41AA6LTS6-EU	01340074		2.5 – 5.8	2.5 – 9.1	**4.0 – 14.7**		600	1.80	361	48	16	⅜"	14.5

Air Screwdrivers
Angle

Adjustable cushion clutch

Adjustable shut-off clutch

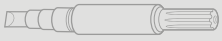
Direct drive

Ref.	CCN	Nm	Nm	Nm	Nm	rpm	kg	mm	mm	mm	in	l/s
QA4AALS011BP25S06	80156060	5.0 – 11.0				1025	1.44	342	33	13	⅜"	12.8
QA4AALS015BP25S06	80156078	7.0 – 15.0				800	1.44	342	33	13	⅜"	12.8
QA4AALS020BP25S06	80156169	10.0 – 20.0				625	1.44	342	33	13	⅜"	12.8
QA4AALS030BP28S06	80156219	15.0 – 30.0				425	1.52	363	35	14	⅜"	12.8
QA6AALS030BP35S06	80186497	15.0 – 30.0				580	2.29	429	44	18	⅜"	17.0
QA4AALS040BP35S06	80156268	20.0 – 40.0				325	1.81	395	44	18	⅜"	12.8
QA6AALS040BP35S06	80186505	20.0 – 40.0				430	2.29	429	44	18	⅜"	17.0
QA8AALS040BP35S06	80186554	20.0 – 40.0				570	2.44	453	44	18	⅜"	21.7
QA4AALS055BP35S08	80156318	25.0 – 55.0				200	2.04	418	44	18	½"	12.8
QA6AALS055BP35S08	80186521	25.0 – 55.0				320	2.30	429	44	18	½"	17.0
QA8AALS055BP35S08	80186570	25.0 – 55.0				425	2.45	453	44	18	½"	21.7
QA6AALS070BP43S08	80186539	35.0 – 70.0				225	2.30	422	45	22	½"	17.0
QA8AALS070BP43S08	80186588	35.0 – 70.0				320	2.45	445	45	22	½"	21.7
QA6AALS090BP43S08	80186547	45.0 – 90.0				185	2.30	422	45	22	½"	17.0
QA8AALS090BP43S08	80186596	45.0 – 90.0				255	2.45	445	45	22	½"	21.7
QA8AALS115BP48S08	80186604	70.0 – 115.0				200	2.79	452	50	25	½"	21.7
QA8AALS150BP48S08	80186612	75.0 – 150.0				145	3.12	489	50	25	½"	21.7
QA8AALS200BF56S12	80186620	100.0 – 200.0				110	4.02	508	53	30	¾"	21.7
QA8AALS225BF56S12	80186638	125.0 – 225.0				90	4.02	508	53	30	¾"	21.7

Air Screwdrivers
Angle

Adjustable cushion clutch

Adjustable shut-off clutch

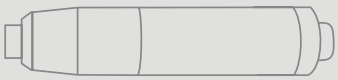


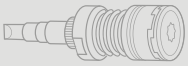
Direct drive

Ref.	CCN	Nm		rpm	kg	mm	mm	mm	in	l/s
LEVER TO START										
QA1L12D1LD	01385293	4.0	M4	1270	0.70	227	34	13	¼"	7.5
QA1L12D4LD	01379148	4.0	M4	1270	0.70	227	34	13	¼"	7.5
QA1L08D1LD	01385285	6.8	M5	850	0.70	227	34	13	¼"	7.5
QA1L08D4LD	01379155	6.8	M5	850	0.70	227	34	13	¼"	7.5
QA1L05D4LD	01380377	11.6	M6	500	0.70	227	34	13	¼"	7.5
5RLN2D6-EU	01340801	12.5	M6	600	1.40	276	33	13	⅜"	8.0
7RLM2D6-EU	01340082	19.8	M8	800	1.40	286	33	13	⅜"	12.7
7RLM3D6-EU	01340850	19.8	M6	800	1.60	295	38	18	⅜"	12.7
7RLN3D6-EU	01338672	29.9	M8	500	1.60	295	38	18	⅜"	12.7
9RSQ83-EU	01337864	111.5	M14	300	3.50	454	46	25	½"	30.8

Specifications at 6.2 bar (90 psi)

Air Screwdrivers
Inline





Adjustable cushion clutch

Adjustable shut-off clutch

Direct drive

Ref.	CCN	Nm	Nm	Nm		rpm	kg	mm	mm	in	l/s
LEVER + PUSH START											
QS1T20C1D	01385152	0.3 – 1.1	**0.9 – 3.1**			2000	0.70	241	22	¼"	7.5
QS1T05C1D	01385129	0.3 – 1.1	0.9 – 3.2	**1.5 – 5.4**		500	0.70	241	22	¼"	7.5
LEVER TO START											
1RLNC1	04724530	**0.3 – 1.8**	0.5 – 2.6	1.1 – 3.4	M4	1000	0.50	222	14	¼"	6.1
1RLMC1	04724548	**0.5 – 1.8**	0.7 – 2.3		M3	1650	0.50	222	14	¼"	6.1
QS1L20C1D	01385053	0.3 – 1.1	**0.9 – 3.1**			2000	0.70	241	22	¼"	7.5
QS1L10C1D	01385038	0.3 – 1.1	0.9 – 2.5	**1.5 – 4.5**		1000	0.70	241	22	¼"	7.5
QS1L05C1D	01385020	0.3 – 1.1	0.9 – 3.2	**1.5 – 5.4**		500	0.70	241	22	¼"	7.5
41SC17LTQ4-EU	01341965IRI	1.1 – 4.5	**1.7 – 6.8**			1700	1.40	277	20	¼"	9.4
41SC10LTQ4-EU	01341122	1.1 – 4.5	**1.7 – 9.0**			1000	1.40	277	20	¼"	9.4
PUSH START											
1RPNC1	04724498	**0.3 – 1.8**	0.5 – 2.6	1.1 – 3.4	M4	1000	0.50	222	14	¼"	6.1
1RPMC1	04724480	**0.5 – 1.8**	0.7 – 2.3		M3	1650	0.50	222	14	¼"	6.1
QS1P20C1D	01385335	0.3 – 1.1	**0.9 – 3.1**			2000	0.62	223	22	¼"	7.5
41SC25PSQ4-EU	01339894	**1.1 – 4.5**				2500	1.30	264	20	¼"	9.4
QS1P10C1D	01385327	0.3 – 1.1	0.9 – 2.5	**1.5 – 4.5**		1000	0.62	223	22	¼"	7.5
QS1P05C1D	01385343	0.3 – 1.1	0.9 – 3.2	**1.5 – 5.4**		500	0.62	223	22	¼"	7.5
41SC10PSQ4-EU	01340868	1.1 – 4.5	**1.7 – 9.0**			1000	1.40	277	20	¼"	9.4

Specifications at 6.2 bar (90 psi)

Air Screwdrivers
Inline

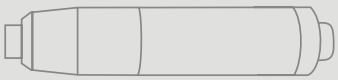
Adjustable cushion clutch

Adjustable shut-off clutch

Direct drive

Ref.	CCN	Nm	Nm	Nm	Nm		1 min rpm	kg	mm	mm	in	l/s
LEVER + PUSH START												
QS1L20S1D	01373539		0.3 – 1.1	**0.9 – 2.5**			2000	0.70	241	22	¼"	7.5
QS1L15S1D	45602497IRI		0.3 – 1.1	**0.9 – 3.1**			1500	0.70	241	22	¼"	7.5
QS1L10S1D	01373513		0.3 – 1.1	0.9 – 2.5	**1.5 – 4.5**		1000	0.70	241	22	¼"	7.5
QS1L02S1D	01389584		0.3 – 1.1	0.9 – 3.2	**1.5 – 5.4**		250	0.70	241	22	¼"	7.5
QS1L05S1D	01373505		0.3 – 1.1	0.9 – 3.2	**1.5 – 5.4**		500	0.70	241	22	¼"	7.5
41SA10LPQ4-EU	01342583IRI		1.7 – 4.5	2.8 – 6.8	**4.0 – 9.0**		1000	1.20	277	20	¼"	13.2
41SA8LPQ4-EU	01341007		1.7 – 4.5	2.8 – 6.8	**4.0 – 11.3**		800	1.20	277	20	¼"	13.2
LEVER TO START												
1RLNS1	80094972		**0.3 – 1.8**	0.5 – 2.6	1.1 – 3.4	M4	1000	0.50	222	14	¼"	6.1
QS1T20S1D	01385251		0.3 – 1.1	**0.9 – 2.5**			2000	0.70	241	22	¼"	7.5
QS1T15S1D	45602588IRI		0.3 – 1.1	**0.9 – 3.1**			1500	0.70	241	22	¼"	7.5
1RLQS1	04725222		0.3 – 1.8	0.5 – 2.6	**1.0 – 5.1**	M5	500	0.50	222	17	¼"	6.1
LD1214RD5-Q4	04370169	1.1 – 2.5					1500	0.70	231	17	¼"	7.7
LD1207RD5-Q4	04367421	1.2 – 4.2					800	0.70	231	17	¼"	7.7
QS1T10S1D	01385236		0.3 – 1.1	0.9 – 2.5	**1.5 – 4.5**		1000	0.70	241	22	¼"	7.5
QS1T02S1D	01389527IRI		0.3 – 1.1	0.9 – 3.2	**1.5 – 5.4**		250	0.70	241	22	¼"	7.5
QS1T05S1D	01385228		0.3 – 1.1	0.9 – 3.2	**1.5 – 5.4**		500	0.70	241	22	¼"	7.5
LD1202RD5-Q4	04367397	1.6 – 10.0					180	0.80	243	17	¼"	7.7
LD2216RD5-Q4	04367546	1.8 – 4.5					1550	1.00	272	18	¼"	10.3
LD2206RD5-Q4	04367488	2.1 – 9.8					600	1.00	272	18	¼"	10.3
LD2210RD5-Q4	04370268	2.4 – 5.9					1000	1.00	272	18	¼"	10.3
QA4ASLS012BP20S04		6.0 – 12.0					1050	1.30	351	21	¼"	13.7
QA4ASRS012BF41S06	80188121	6.0 – 12.0					1050	1.30	451	21	⅜"	13.7
QA4ASLS015BP20S04		7.0 – 15.0					850	1.30	351	21	¼"	13.7
QA4ASRS015BF41S06	47144555	7.0 – 15.0					850	1.30	451	21	⅜"	13.7
LD2203RD5-S6		10.0 – 15.0					300	1.10	293	18	⅜"	10.3
QA4ASLS020BP20S06	80166143	10.0 – 20.0					600	1.40	342	21	⅜"	13.7
QA4ASRS020BF41S06	80187917	10.0 – 20.0					600	1.40	451	21	⅜"	13.7
QA6ASLS025BP41S06	80186794	12.0 – 25.0					720	2.30	478	20	⅜"	17.0
QA6ASRS025BF41S06	80186919	12.0 – 25.0					700	2.61	454	34	⅜"	17.0
QA4ASLS027BP20S06	80166135	14.0 – 27.0					450	1.40	342	21	⅜"	13.7
QA4ASRS027BF41S06	47143565	14.0 – 27.0					450	1.40	451	21	⅜"	13.7
QA6ASLS030BP41S06	80186802	15.0 – 30.0					605	2.30	478	20	⅜"	17.0
QA6ASRS030BF41S06	80186927	15.0 – 30.0					585	2.61	454	34	⅜"	17.0
QA4ASLS046BP20S06	80166150	20.0 – 46.0					250	1.50	370	23	⅜"	13.7
QA4ASRS046BF41S06	17004284	20.0 – 46.0					250	1.50	465	23	⅜"	13.7

Air Screwdrivers
Inline



Adjustable cushion clutch

Adjustable shut-off clutch

Direct drive

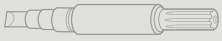
Ref.	CCN	Nm	Nm	Nm	Nm		1 min rpm	kg	mm	mm	in	l/s
QA6ASLS040BP41S06	80186810	20.0 – 40.0					450	2.30	478	20	⅜"	17.0
QA6ASRS040BF41S06	80186935	20.0 – 40.0					435	2.61	454	34	⅜"	17.0
QA8ASLS040BP41S06	80186836	20.0 – 40.0					600	2.39	502	20	⅜"	21.7
QA8ASRS040BF41S06	17013434	20.0 – 40.0					540	2.73	478	34	⅜"	21.7
QA6ASLS055BP41S08	80186828	25.0 – 55.0					325	2.31	478	20	½"	17.0
QA6ASRS055BF41S08	80186943	25.0 – 55.0					315	2.62	454	34	½"	17.0
QA8ASLS055BP41S08	80186851	25.0 – 55.0					470	2.40	502	20	½"	21.7
QA8ASRS055BF41S08	80186976	25.0 – 55.0					425	2.74	478	34	½"	21.7
QA8ASLS070BP41S08	80186869	35.0 – 70.0					355	2.54	506	24	½"	21.7
QA8ASRS070BF41S08	80186984	35.0 – 70.0					320	3.09	482	43	½"	21.7
QA8ASLS090BP41S08	80186877	45.0 – 90.0					255	2.87	542	24	½"	21.7
QA8ASRS090BF41S08	80186992	45.0 – 90.0					230	3.42	518	43	½"	21.7
QA8ASLS115BF41S08		70.0 – 115.0					215	3.40	541	51	½"	21.7
QA8ASRS115BF41S08	80187008	70.0 – 115.0					195	3.64	517	51	½"	21.7
QA8ASLS150BF41S08		75.0 – 150.0					165	3.40	541	51	½"	21.7
QA8ASRS180BF41S08	17022583	90.0 – 180.0					125	3.64	517	51	½"	21.7
PUSH START												
1RPNS1	04724431		**0.3 – 1.8**	0.5 – 2.6	1.1 – 3.4	M4	1000	0.50	222	14	¼"	6.1
1RPLS1	80094907		**0.5 – 1.5**			M2	2800	0.50	213	14	¼"	6.1
1RPMS1	04724423		**0.5 – 1.8**	0.7 – 2.3		M3	1650	0.50	222	14	¼"	6.1
QS1P20S1D	01375807		0.3 – 1.1	**0.9 – 2.5**			2000	0.62	223	22	¼"	7.5
QS1P15S1D	45602554IRI		0.3 – 1.1	**0.9 – 3.1**			1500	0.62	223	22	¼"	7.5
1RPQS1	04724449		0.3 – 1.8	0.5 – 2.6	**1.0 – 5.1**	M5	500	0.50	222	17	¼"	6.1
LD1214RD3-Q4	04371175	1.1 – 2.5					1500	0.70	231	17	¼"	7.7
LD1207RD3-Q4	04371167	1.2 – 4.2					800	0.70	231	17	¼"	7.7
QS1P10S1D	01375781		0.3 – 1.1	0.9 – 2.5	**1.5 – 4.5**		1000	0.62	223	22	¼"	7.5
QS1P02S1D	01386135		0.3 – 1.1	0.9 – 3.2	**1.5 – 5.4**		250	0.62	223	22	¼"	7.5
QS1P05S1D	01375773		0.3 – 1.1	0.9 – 3.2	**1.5 – 5.4**		500	0.62	223	22	¼"	7.5
LD1202RD3-Q4	53559415	1.6 – 10.0					180	0.80	243	17	¼"	7.7
LD2216RD3-Q4	04380887	1.8 – 4.5					1550	1.00	272	18	¼"	10.3
LD2206RD3-Q4	04381232	2.1 – 9.8					600	1.00	272	18	¼"	10.3
LD2210RD3-Q4	53559423	2.4 – 5.9					1000	1.00	272	18	¼"	10.3
41SA17PSQ4-EU	01340595		1.7 – 4.5	**2.8 – 6.8**			1700	1.20	277	20	¼"	13.2
41SA10PSQ4-EU	01339100		1.7 – 4.5	2.8 – 6.8	**4.0 – 9.0**		1000	1.20	277	20	¼"	13.2
41SA8PSQ4-EU	01339779		1.7 – 4.5	2.8 – 6.8	**4.0 – 11.3**		800	1.20	277	20	¼"	13.2

Specifications at 6.2 bar (90 psi)

Air Screwdrivers
Inline

Adjustable cushion clutch

Adjustable shut-off clutch



Direct drive

Ref.	CCN	Nm		rpm	kg	mm	mm	in	l/s
LEVER TO START									
QS1L20D1D	01385004	2.9	M3	2000	0.60	241	22	¼"	7.5
QS1L10D1D	01384981	5.8	M5	1000	0.60	241	22	¼"	7.5

Specifications at 6.2 bar (90 psi)

QA Precision Fastening Tools
Accessories

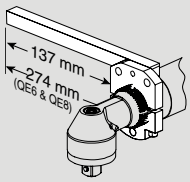
GEM120-K48

GEA4-K48

Flanged mounting plate			CCN
LEVER START			
QA4/QA8 – inline	< 56 Nm	15EA-K48	
QA4/QA8 – angle	< 56 Nm		
QA6/QA8 – inline	70/90 Nm	GEM120-K48	4642369
QA6/QA8 – angle	115/150 Nm		

Square mounting plate			CCN
LEVER START			
QA6/QA8 – inline	< 56 Nm	GEA4-K48	4696456
QA6/QA8 – angle	< 91 Nm		
QA6/QA8 – inline	70/90 Nm	DAM120-K48	4340535
QA6/QA8 – angle	115/150 Nm		

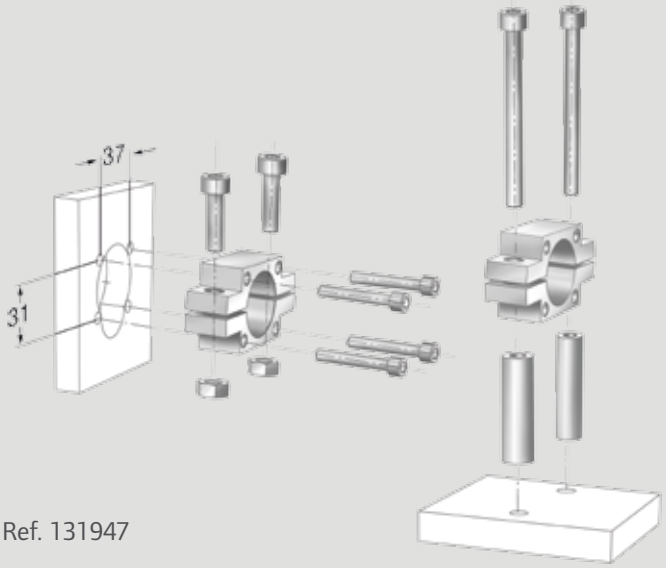
GEA15-K48



Reaction bar kit			CCN
LEVER START			
QA6/QA8 – inline	< 55 Nm	GEA15-K48	80132509
QA6/QA8 – angle	< 90 Nm		
QA6/QA8 – inline	< 180 Nm	DEA120-K48*	4642369
QA6/QA8 – angle	< 150 Nm		

*With a maximum torque of 150 Nm and for non-flanged models only

Mounting plate for QA4 series (for vertical or horizontal mounting)



Ref. 131947

See our Torque Reaction Arms page 108

Angle Wrenches
Accessories

TRL-415-1
to TRL-415-5

Common Accessories for Angle Wrenches only

	Q2 Series	41 Series	5 Series	7 Series	8 Series	9 Series
1/4" square drive spindle	TRL2-A607-S4	48404-1	141A9-A607-1/4 (6.3 Nm max.)	141A9-A607-1/4 (6.3 Nm max.)	—	—
3/8" square drive spindle	TRL2-A607-S6	48405-1	141A12-A607	141A12-A607	—	—
1/4" hex bit holder spindle	TRL2-A607-Q4	48402-1	5L2C3-B586	5L2C3-B586	—	—
1/4" insert bit holder spindle	TRL2-A607-H4	48403-1	5L2C4-B386	5L2C4-B386	—	—
150 mm angle head extension	—	—	—	—	8SL-A327-6	8SL-A327-6
3/4" flush head socket*	—	—	—	—	—	182A88-807 (83 angle head)
13 mm flush head socket*	—	—	—	8SA34-807M (3D6) angle head	8SA34-807M (32 angle head) 182A13MF-807 (53 angle head)	
15 mm flush head socket*	—	—	—	—	182A15MF-807 (53 angle head)	
17 mm flush head socket*	—	—	—	—	8SA56-807M (53 angle head)	
19 mm flush head socket*	—	—	—	—	—	182A88-807 (83 angle head)
Color differentiating components: clutch housing adjustment cover	TRL-415-1 (gold) TRL-415-2 (red) TRL-415-3 (blue) TRL-415-4 (green) TRL-415-5 (lime green)	—	—	—	—	—

* These sockets replace the standard square drive in the angle head.

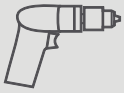
Angle Head Boots

Partnumber	CCN	Description
131995	53454708	{QA4…011/ …015/ …020/ …030}
131997	53454724	{QA4…040/ …055} {QA6…030/ …040/ …055} {QA8…040/ …055}
GEA40-172	80095409	{QA6…070/ …090} {QA8…070/ …090}
GEA40-173	80095789	{QA8…115/ …150}
GEA240-173	45533766	{QA8…200/ …225}

Air Pulse Tools

Ingersoll Rand offers a full line of standard shut-off and non-shut-off pulse tools in pistol, angle, and inline configurations to meet your needs. These extremely lightweight tools offer excellent power, speed, accuracy, and ergonomics.

Air Pulse Tools



Pistol

Air Pulse Tools
Series Information

Q Series

Represents the latest generation of pulse tool technology engineered with the end-user in mind.

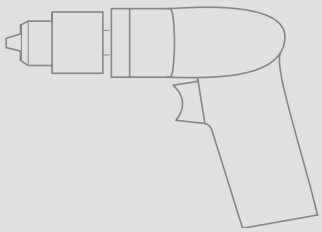
- Torque range 11 to 160 Nm
- Speed 4000 to 7000 rpm
- Lube free motor
- Ergonomic design provides comfortable grip
- High-speed and reactionless fastening
- Consistent torque
- Excellent performance and durability
- Non-shut-off tools are recommended for the majority of applications where speed and ergonomics are important

QS Series

Represents the latest generation of pulse tool technology engineered with the end-user in mind.

- Torque range 4,5 to 210 Nm
- Speed 4300 to 6800 rpm
- Lube free motor
- Ergonomic design provides comfortable grip
- High-speed and reactionless fastening
- Consistent torque
- Excellent performance and durability
- Auto-shut-off limits air consumption and tool wear

Air Pulse Tools
Pistol



Non-shut-off

Ref.	CCN	Nm		rpm	kg	mm	mm	in	l/s
Q60PQ1	47136171	11.0 – 20.0	M6	4000	0.80	130	22	¼" ⌬	5.2
Q60P3	47147681	13.0 – 22.0	M6	4000	0.80	130	22	⅜" □	5.2
Q70PQ1	80199326	20.0 – 28.0	M6	7000	0.80	131	21	¼" ⌬	5.5
Q70P3	80199318	24.0 – 35.0	M6	7000	0.80	131	21	⅜" □	5.5
Q80PQ1	80199342	24.0 – 35.0	M8	7000	0.85	138	21	¼" ⌬	5.8
Q80P3	80199334	33.0 – 50.0	M8	7000	0.85	138	21	⅜" □	5.8
Q90P3	80199359	47.0 – 65.0	M8	6500	0.97	148	23	⅜" □	6.7
Q110P4	80199367	65.0 – 100.0	M14	5500	1.40	164	26	½" □	9.7
Q120P4	45631405	95.0 – 130.0	M12	6600	1.70	175	29	½" □	13.7
Q140P4	45631512	130.0 – 160.0	M14	6000	2.20	190	33	½" □	15.6

Specifications at 6.2 bar (90 psi)

Shut-off

Ref.	CCN	Nm		rpm	kg	mm	mm	in	l/s
QS50P3	48622120	4.5 – 8.0	M5	4300	0.95	164	23	⅜" □	4.2
QS50PQ1	48622112	4.5 – 8.0	M5	4300	0.95	164	23	¼" ⌬	4.2
QS60PQ1	47135900	6.0 – 13.0	M6	5300	0.95	164	23	¼" ⌬	5.7
QS60P3	47135892	7.0 – 15.5	M6	5300	0.95	164	23	⅜" □	5.7
QS70PQ1	47135926	13.0 – 28.0	M6	6800	1.10	177	23	¼" ⌬	6.1
QS70P3	47135918	15.0 – 32.0	M6	6800	1.10	177	23	⅜" □	6.1
QS80P3	47135934	30.0 – 55.0	M8	6800	1.10	187	25	⅜" □	7.5
QS110P4	47149208	50.0 – 85.0	M10	5800	1.50	194	29	½" □	8.5
QS120P4	47149216	70.0 – 115.0	M12	5400	1.80	201	31	½" □	8.5
QS140P4	47149224	110.0 – 150.0	M14	5200	2.10	214	33	½" □	11.8
QS150P6	48622138	140.0 – 210.0	M16	4400	2.90	237	39	¾" □	11.8

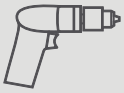
Specifications at 6.2 bar (90 psi)

Air Drills

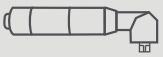
Compact size, ergonomics, excellent power-to-weight ratios, and durability distinguish the Ingersoll Rand line of air drills for production and maintenance applications. Choose from our broad range of models, including inline, angle, pistol, and modular drills to meet your exact requirements. All drills for production applications share key features such as double row ball bearing construction, which assures precise concentric holes.

Air Drills

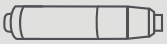
Production Drills



Pistol
Direct drive



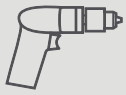
Angle
Direct drive



Inline
Direct drive

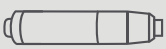
Accessories

Precision Drills



Pistol
Direct drive

Angle
Direct drive



Inline
Direct drive

Modular
Direct drive

Accessories

Air Drills
Series Information

1 Series

1 Series drills combine proven quality and performance with economy for day-in day-out production drilling

- Stall torque 1.1 to 11.3 Nm
- Speed 600 to 3,800 rpm
- Double row ball bearings construction assures precise holes
- Variable speed control allows starting and high speed for fast drilling
- Excellent power-to-weight ratio gets the job done with less fatigue

1AL1

1LL1

5 Series

Durability and performance

- Stall torque 2.30 to 13.6 Nm
- Speed 700 to 4,800 rpm
- Excellent power-to-weight ratio gets the job done with less fatigue

5AJST4-EU

5LK1A4-EU

5LJ1-EU

7 Series

Durability and performance

- Stall torque 1.13 to 31.1 Nm
- Speed 600 to 2,000 rpm
- Excellent power-to-weight ratio gets the job done with less fatigue

7ANST8-EU

7LM3A43-EU

Air Drills
Series Information

MS Series

Air multifunction drill

- Stall torque 11 Nm
- Speed 600 rpm
- Direct drive
- Quick reversible trigger

MS2206RP5-Q4

P33 Series

P33 precision drills deliver excellent accuracy for demanding applications

- Stall torque 0.6 to 16 Nm
- Speed 660 to 18,000 rpm
- Variable speed control allows starting and high speed for fast drilling
- Lube-free motor
- Skinsulate comfort coating grip

P33006-PMSL

P33006-DASL090P45

P33006-DSL

P33032-DMSL-B

Q2 Series

Compact and lightweight, Q2 drills deliver more power in a smaller package to get the job done in less time

- Stall torque 1.1 to 12.8 Nm
- Speed 500 to 5,100 rpm
- Ergonomic design reduces operator fatigue
- Variable speed control allows starting and high speed for fast drilling
- Excellent power-to-weight ratio gets the job done with less fatigue
- Part numbers starting with QP, QA, QS according to their shape

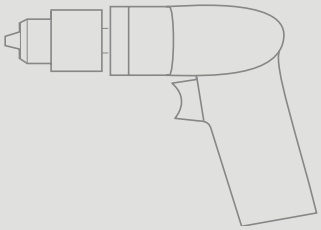
QP051D

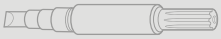
QA0539D

QS151D

Air Drills

Production Drills | Pistol



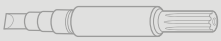


Direct drive

Ref.	CCN	1 min rpm	MAX Nm rpm	kg	mm	MAX mm	in	mm	MAX l/s
TRIGGER START									
1AL1	04725230	2800	1.7	0.65	159	6.0	⅜ – 24	17	5.2
1P06ST4	04725289	600	11.3	0.68	171	6.0	⅜ – 24	17	5.2
1P09ST4	04725297	900	7.6	0.68	171	6.0	⅜ – 24	17	5.2
1P38ST4	4725305	3800	2.3	0.65	159	6.0	⅜ – 24	17	5.2
5AJST4-EU	01340322	4500	2.3	0.90	173	6.0	⅜ – 24	21	8.0
5AKST4-EU	01339993	3000	3.4	0.90	173	6.0	⅜ – 24	21	8.0
5ALST4-EU	01338938	2200	4.5	0.90	173	6.0	⅜ – 24	21	8.0
5ANST6-EU	01339969	1000	9.0	1.25	207	10.0	⅜ – 24	21	8.0
5RALST6-EU	01341031	2000	4.0	1.00	157	10.0	⅜ – 24	21	8.0
5RANST8-EU	01341569	900	8.0	1.40	210	13.0	⅜ – 24	21	8.0
7ADST4-EU		2000	1.1	1.02	189	6.0	⅜ – 24	22	11.7
7AHST4-EU	01340983	6000	3.7	1.05	189	6.0	⅜ – 24	22	11.7
7AJST4-EU	01338987	4800	4.5	1.05	189	6.0	⅜ – 24	22	11.7
7AKST6-EU	01340579	3200	6.6	1.08	194	10.0	⅜ – 24	22	11.7
7ALST6-EU	01338581	2400	8.8	1.22	189	10.0	⅜ – 24	22	11.7
7AMST6-EU	01338540	1400	14.7	1.33	216	10.0	⅜ – 24	22	11.7
7ANST8-EU	01338433	900	20.9	1.45	222	13.0	⅜ – 24	22	11.7
7AQST8-EU	01337914	600	30.5	1.47	222	13.0	⅜ – 24	22	11.7
MS2206RP5-Q4		600	11.0	1.00	190	8.0	¼"	20	9.5
QP051D	01376177	500	9.8	0.70	184	6.0	⅜ – 24	15	7.5
QP091D	01376136	900	5.8	0.70	184	6.0	⅜ – 24	15	7.5
QP151D	01376086	1500	3.4	0.70	184	6.0	⅜ – 24	15	7.5
QP152D	01376052	1500	3.4	0.80	184	10.0	⅜ – 24	18	7.5
QP201D	01376037	2000	2.8	0.70	184	6.0	⅜ – 24	15	7.5
QP202D	01376011	2000	2.8	0.80	184	10.0	⅜ – 24	18	7.5
QP301LD	01379403	3000	1.8	0.65	171	6.0	⅜ – 24	15	7.5
QP302LD	01379981	3000	1.8	0.75	171	10.0	⅜ – 24	18	7.5
QP381D	01375914	3800	1.5	0.70	184	6.0	⅜ – 24	15	7.5
QP511LD	01380062	5100	1.1	0.65	171	6.0	⅜ – 24	15	7.5
QP512LD	01380088	5100	1.1	0.75	171	10.0	⅜ – 24	18	7.5

Specifications at 6.2 bar (90 psi)

Air Drills
Production Drills | Angle



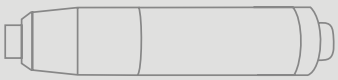
Direct drive

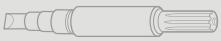
Ref.	CCN	1 min rpm	MAX Nm rpm	kg	mm	MAX mm	in	mm	mm	MAX l/s
LEVER TO START										
1LJ1A1	04725271	3700	1.1	0.51	234		¼ – 28		9	5.2
1LL1A1	04725263	2700	1.6	0.51	234		¼ – 28		9	5.2
5LK1A4-EU	01340124	3000	3.5	1.00	249	5.0		30	9	8.0
5LL1A4-EU	01340710	2200	4.5	1.00	249	5.0		30	9	8.0
5LL2A41-EU	01340199	1500	6.8	1.20	239	6.0		75	14	8.0
5LN2A43-EU	01340736	700	13.6	1.60	259	10.0		91	14	8.0
7LM3A43-EU	01339902	900	21.7	1.79	281	10.0		99	18	11.7
7LN3A44-EU	01339167	600	31.1	1.90	281	13.0		105	18	11.7
QA0539D	01390079	500	12.8	0.62	221	4.8		27	10	7.5
QA0559D	01389253	500	12.8	0.62	221		¼ – 28	27	10	7.5
QA0859D	01389261	850	7.6	0.62	221		¼ – 28	27	10	7.5
QA1239D	01390053	1270	4.5	0.62	221	4.8		27	10	7.5
QA2739D	89949267	2700	2.3	0.62	221	4.8		27	10	7.5
QA2759D	01379858	2700	2.3	0.62	221		¼ – 28	27	10	7.5

Specifications at 6.2 bar (90 psi)

Air Drills

Production Drills | Inline





Direct drive

Ref.	CCN	1 min rpm	MAX Nm rpm	kg	mm	MAX mm	in	mm	MAX l/s
LEVER TO START									
1LL1	04725248	2800	1.7	0.51	194	6.0	⅜ – 24	17	5.2
1S30MF4	04725255	3000	1.9	0.54	186	6.0	⅜ – 24	17	5.2
5LJ1-EU	01340462	4800	2.3	0.90	205	6.0	⅜ – 24	21	8.0
5LK1-EU	01340116	3100	3.4	0.90	205	6.0	⅜ – 24	21	8.0
5LL1-EU	01340728	2300	4.5	0.90	205	6.0	⅜ – 24	21	8.0
5LN3-EU	01340405	1050	9.0	1.50	238	10.0	⅜ – 24	21	8.0
QS151D	01387257	1500	3.8	0.62	205	6.0	⅜ – 24	15	7.5
QS301D	01387273	3000	1.9	0.62	205	6.0	⅜ – 24	15	7.5
QS381D	01387281	3800	1.5	0.62	205	6.0	⅜ – 24	15	7.5
QS511D	01387299	5100	1.2	0.62	205	6.0	⅜ – 24	15	7.5

Specifications at 6.2 bar (90 psi)

Air Drills
Production Drills | Accessories

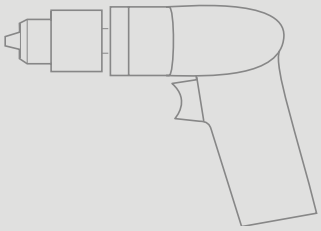
Collets for Q2 angle drills

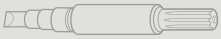
Ø mm	Ref. No	Ø mm	Ref. No	Ø mm	Ref. No	Ø mm	Ref. No
1.0	43497-60	2.1	43497-44	3.5	43497-28	4.9	43497-9
1.05	43497-58	2.2	43497-43	3.6	43497-27	5.0	43497-8
1.1	43497-57	2.3	43497-42	3.7	43497-25	5.1	43497-7
1.2	43497-56	2.4	43497-40	3.8	43497-24	1/16	43497-161
1.3	43497-55	2.5	43497-38	3.9	43497-23	5/64	43497-162
1.4	43497-54	2.6	43497-37	4.0	43497-20	3/32	43497-163
1.5	43497-53	2.7	43497-35	4.3	43497-18	7/64	43497-164
1.6	43497-52	2.8	43497-33	4.4	43497-16	1/8	43497-165
1.7	43497-51	2.9	43497-32	4.5	43497-15	9/64	43497-166
1.8	43497-50	3.0	43497-31	4.6	43497-14	5/32	43497-167
1.9	43497-48	3.2	43497-30	4.7	43497-13	11/64	43497-168
2.0	43497-45	3.4	43497-29	4.8	43497-11	3/16	43497-169

Collets for models 5LL1A4-EU and 5LK1A4-EU

Ø mm	Ref. No	Ø mm	Ref. No
2.0	43497-45	5/64	43497-162
2.5	43497-38	3/32	43497- 163
3.0	43497-31	7/64	43497-164
3.5	43497-28	1/8	43497-165
4.0	43497-20	9/64	43497-166
4.5	43497-15	5/32	43497-167
5.0	43497-8	11/64	43497-168
1/16	43497-161	3/16	43497-169

Air Drills
Precision Drills | Pistol



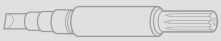


Direct drive

Ref.	CCN	1 min rpm	MAX Nm rpm	kg	mm	MAX mm	in	mm	MAX l/s
TRIGGER START									
P33006-PSL	53430302	660	16.0	1.15	209	10.0	⅜ – 24	22	10.0
P33011-PSL	53430344	1100	9.5	1.15	209	10.0	⅜ – 24	22	10.0
P33016-PSL	53430385	1600	6.8	1.15	209	8.0	⅜ – 24	22	10.0
P33022-PSL	53430435	2200	4.5	1.05	194	8.0	⅜ – 24	22	10.0
P33032-PSL	53430468	3200	3.2	1.05	194	8.0	⅜ – 24	22	10.0
P33054-PSL	53430500	5400	1.9	1.05	194	6.0	⅜ – 24	22	10.0

Specifications at 6.2 bar (90 psi)

Air Drills
Precision Drills | Angle Head



Direct drive

Ref.	CCN	1 min rpm	MAX Nm rpm	kg	mm	MAX mm	mm	MAX l/s
WITH 30° ANGLE HEAD								
P33006-DASL030P45	53448122	660	16.0	0.88	284	1.0 – 4.5	20	10.0
P33006-DASL030P64	53448130	660	16.0	0.88	296	1.6 – 6.4	32	10.0
P33011-DASL030P45	53448205	1100	9.5	0.88	284	1.0 – 4.5	20	10.0
P33011-DASL030P64	53448197	1100	9.5	0.88	296	1.6 – 6.4	32	10.0
P33016-DASL030P45	53448254	1600	6.8	0.88	284	1.0 – 4.5	20	10.0
P33016-DASL030P64	53448262	1600	6.8	0.88	296	1.6 – 6.4	32	10.0
P33022-DASL030P45	53433934	2200	4.5	0.77	269	1.0 – 4.5	20	10.0
P33022-DASL030P64	53448403	2200	4.5	0.77	281	1.6 – 6.4	32	10.0
P33032-DASL030P45	53434031	3200	3.2	0.76	269	1.0 – 4.5	20	10.0
P33032-DASL030P64	53448460	3200	3.2	0.76	281	1.6 – 6.4	32	10.0
P33054-DASL030P45	53448494	5400	1.9	0.76	269	1.0 – 4.5	20	10.0
P33054-DASL030P64	53448502	5400	1.9	0.76	281	1.6 – 6.4	32	10.0
WITH 90° ANGLE HEAD								
P33006-DASL090P45	53448148	660	16.0	0.88	277	1.0 – 4.5	31	10.0
P33006-DASL090P64	53448155	660	16.0	0.89	277	1.6 – 6.4	43	10.0
P33011-DASL090P45	53433918	1100	9.5	0.88	277	1.0 – 4.5	31	10.0
P33011-DASL090P64	53448221	1100	9.5	0.89	277	1.6 – 6.4	43	10.0
P33016-DASL090P45	53448288	1600	6.8	0.88	277	1.0 – 4.5	31	10.0
P33016-DASL090P64	53448296	1600	6.8	0.89	277	1.6 – 6.4	43	10.0
P33022-DASL090P45	53433959	2200	4.5	0.77	262	1.0 – 4.5	31	10.0
P33022-DASL090P64	53448429	2200	4.5	0.78	262	1.6 – 6.4	43	10.0
P33032-DASL090P45	53434049	3200	3.2	0.77	262	1.0 – 4.5	31	10.0
P33032-DASL090P64	53448478	3200	3.2	0.78	262	1.6 – 6.4	43	10.0
P33054-DASL090P45	53448510	5400	1.9	0.76	262	1.0 – 4.5	31	10.0
P33054-DASL090P64	53448528	5400	1.9	0.77	262	1.6 – 6.4	43	10.0
WITH 180° ANGLE HEAD								
P33006-DASL180P45	53448163	660	16.0	0.94	292	1.0 – 4.5	63	10.0
P33006-DASL180P64	53448171	660	16.0	0.96	304	1.6 – 6.4	63	10.0
P33011-DASL180P45	53448239	1100	9.5	0.94	292	1.0 – 4.5	63	10.0
P33011-DASL180P64	53448247	1100	9.5	0.96	304	1.6 – 6.4	63	10.0
P33016-DASL180P45	53448320	1600	6.8	0.94	292	1.0 – 4.5	63	10.0
P33016-DASL180P64	53448387	1600	6.8	0.96	304	1.6 – 6.4	63	10.0
P33022-DASL180P45	53433967	2200	4.5	0.83	277	1.0 – 4.5	63	10.0
P33022-DASL180P64	53448437	2200	4.5	0.85	289	1.6 – 6.4	63	10.0
P33032-DASL180P45	53434189	3200	3.2	0.82	277	1.0 – 4.5	63	10.0
P33032-DASL180P64	53448486	3200	3.2	0.84	289	1.6 – 6.4	63	10.0
P33054-DASL180P45	53448536	5400	1.9	0.82	277	1.0 – 4.5	63	10.0
P33054-DASL180P64	53448544	5400	1.9	0.84	289	1.6 – 6.4	63	10.0

Specifications at 6.2 bar (90 psi)

Air Drills

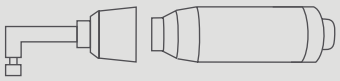
Precision Drills | Inline

Direct drive

Ref.	CCN	1 min rpm	MAX Nm rpm	kg	mm	MAX mm	in	mm	MAX l/s
LEVER TO START									
P33006-DSL	53430294	660	16.0	1.00	235	10.0	⅜ – 24	22	10.0
P33011-DSL	53430336	1100	9.5	1.00	235	10.0	⅜ – 24	22	10.0
P33016-DSL	53430377	1600	6.8	0.94	227	8.0	⅜ – 24	22	10.0
P33022-DSL	53430419	2200	4.5	0.90	212	8.0	⅜ – 24	22	10.0
P33032-DSL	53430450	3200	3.2	0.90	212	8.0	⅜ – 24	22	10.0
P33054-DSL	53430492	5400	1.9	0.90	212	6.0	⅜ – 24	22	10.0
P33110-DSL	53430526	11000	0.9	0.96	227	6.0	⅜ – 24	22	10.0
P33180-DSL	53430542	18000	0.6	0.90	212	6.0	⅜ – 24	22	10.0

Specifications at 6.2 bar (90 psi)

Precision Drills | Motor Modules



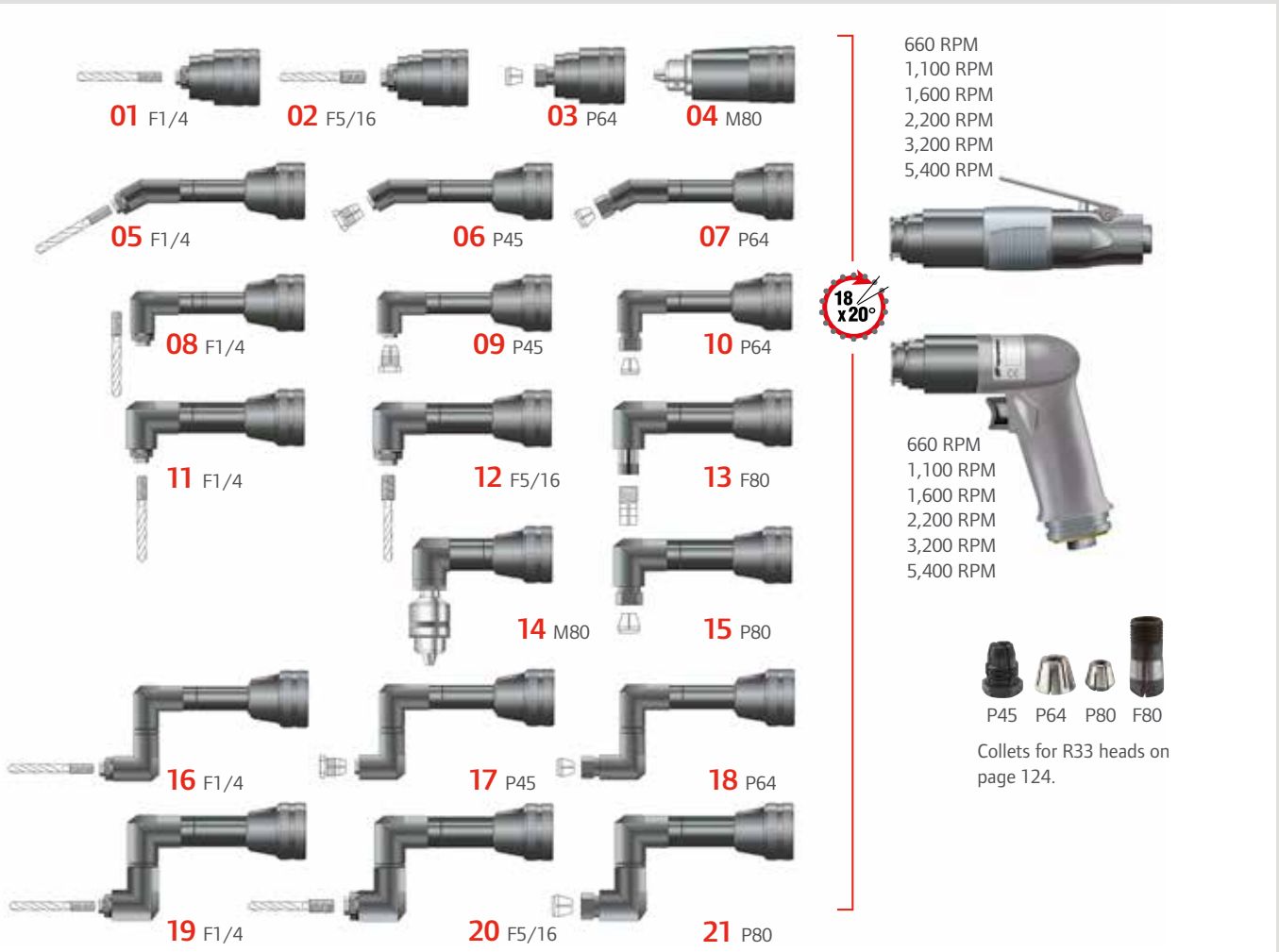
Direct drive

Ref.	CCN	1 min rpm	MAX Nm rpm	kg	mm	mm	MAX l/s
BUTTON CONTROL							
P33032-DMSL-B	53433892	3200	3.2	0.64	164	22	10.0
P33054-DMSL-B	53433900	5400	1.9	0.63	164	22	10.0
LEVER CONTROL							
P33006-DMSL	53430328	660	16.0	0.79	179	22	10.0
P33011-DMSL	53430369	1100	9.5	0.79	179	22	10.0
P33016-DMSL	53430393	1600	6.8	0.79	179	22	10.0
P33022-DMSL	53430443	2200	4.5	0.68	164	22	10.0
P33032-DMSL	53430476	3200	3.2	0.67	164	22	10.0
P33054-DMSL	53430518	5400	1.9	0.67	164	22	10.0
TRIGGER START							
P33006-PMSL	53442604	660	16.0	0.92	161	21	10.0
P33011-PMSL	53442612	1100	9.5	0.92	161	21	10.0
P33016-PMSL	53442620	1600	6.8	0.92	161	21	10.0
P33022-PMSL	53442638	2200	4.5	0.81	146	21	10.0
P33032-PMSL	53442646	3200	3.2	0.80	146	21	10.0
P33054-PMSL	53442653	5400	1.9	0.80	146	21	10.0

Specifications at 6.2 bar (90 psi)

Air Drills

Precision Drills | Modular Drill Attachments



Collets for R33 heads on page 124.

		Ref.	MAX	A	B mm	C mm	D mm	kg
	01	R33M000F1/4	8.0	A + 40	—	—	—	0.16
	02	R33M000F5/16	8.0	A + 40	—	—	—	0.16
	03	R33M000P64	6.4	A + 42	—	—	—	0.16
	04	R33M000M80	8.0	A + 81	—	—	—	0.38
17 mm B C	05	R33M030D17F1/4	6.4	A + 118	24.0	18	—	0.24
	06	R33M030D17P45	4.5	A + 112	19.5	18	—	0.24
	07	R33M030D17P64	6.4	A + 124	31.5	18	—	0.26
17 mm B C	08	R33M090D17F1/4	6.4	A + 105	36.0	18	—	0.24
	09	R33M090D17P45	4.5	A + 105	36.0	18	—	0.24
	10	R33M090D17P64	6.4	A + 105	43.5	18	—	0.26
25 mm B C	11	R33M090D25F1/4	8.0	A + 78	44.0	25	—	0.34
	12	R33M090D25F5/16	8.0	A + 78	44.0	25	—	0.34
	13	R33M090D25F80	8.0	A + 78	50.0	25	—	0.36
	14	R33M090D25M80	8.0	A + 81	98.5	30	—	0.54
	15	R33M090D25P80	8.0	A + 78	54.0	25	—	0.39
17 mm C B D	16	R33M180D17F1/4	6.4	A + 124	64.0	18	36	0.30
	17	R33M180D17P45	4.5	A + 120	64.0	18	32	0.30
	18	R33M180D17P64	6.4	A + 131	64.0	18	44	0.32
25 mm C B D	19	R33M180D25F1/4	8.0	A + 99	87.5	25	44	0.40
	20	R33M180D25F5/16	8.0	A + 99	87.5	25	44	0.40
	21	R33M180D25P80	8.0	A + 109	87.5	25	54	0.45

Air Drills

Precision Drills | Accessoires




Collets for P33 angle drills and R33 heads

THREADED COLLETS FOR P45 HEADS		PLAIN COLLETS FOR P64 HEADS		PLAIN COLLETS FOR P80 HEADS		THREADED COLLETS FOR F80 HEADS	
Ø mm	Ref. No	Ø mm	Ref. No	Ø mm	Ref. No	Ø mm	Ref. No
1.0	120071	1.6	128250	2.4	128280	2.0	128310
1.5	120072	1.8	128251	2.6	128281	2.5	128311
2.0	120073	2.0	128252	2.8	128282	3.0	128312
2.2	120102	2.2	128253	3.0	128283	3.5	128313
2.4	120106	2.4	128254	3.2	128284	4.0	128314
2.5	120074	2.6	128255	3.4	128285	4.5	128315
3.0	120075	2.8	128256	3.6	128286	5.0	128316
3.1	120105	3.0	128257	3.8	128287	5.5	128317
3.2	120109	3.2	128258	4.0	128288	6.0	128318
3.25	120104	3.4	128259	4.2	128289	6.5	128319
3.3	120113	3.6	128260	4.4	128290	7.0	128320
3.5	120076	3.8	128261	4.6	128291	7.5	128321
3.6	123991	4.0	128262	4.8	128292	8.0	128322
3.7	121552	4.2	128263	5.0	128293	—	—
3.8	125783	4.4	128264	5.2	128294	—	—
3.9	120107	4.6	128265	5.4	128295	—	—
4.0	120077	4.8	128266	5.6	128296	—	—
4.1	120103	5.0	128267	5.8	128297	—	—
4.2	120110	5.2	128268	6.0	128298	—	—
4.5	120078	5.4	128269	6.2	128299	—	—
4.6	120111	5.6	128270	6.4	128300	—	—
4.7	125784	5.8	128271	6.6	128301	—	—
4.8	120112	6.0	128272	6.8	128302	—	—
4.9	121553	6.2	128273	7.0	128303	—	—
5.0	120079	6.4	128274	7.2	128304	—	—
—	—	—	—	7.4	128305	—	—
—	—	—	—	7.6	128306	—	—
—	—	—	—	7.8	128307	—	—
—	—	—	—	8.0	128308	—	—

Air Drills
Accessories for drills

Common Accessories for Drills only

	Q2 Series	5 Series	7 Series	P33 Series
Chuck guard for straight and pistol models	TRD-A961-S (for 6 mm Ø) TRD-A961 (for 10 mm Ø)	5A-309 (for J, K, L ratio)	7AH-K309 (for H J, K, L ratio)	128037 (for 8 mm Ø max.)
Square drive adapter – 3/8"...	R0H-P212-3/8			
Quick change screwdriver bit adapter – 3/8"-24 thread x 1/4" hex drive	R0H-A925-4			
Keyless chuck – Thread 3/8" – 24 female/Industrial grade	CM-116688 (Ø 0 – 6 mm) 125605 (Ø 0 – 8 mm) 116689 (Ø 0 – 10 mm) 123194 (Ø 0 – 13 mm)			
Keyless chuck – Thread 3/8" – 24 female/Standard grade	KC10MM (Ø 0 – 10 mm) KC13MM (Ø 0 – 13 mm)			
Collets for 9/32" – 40 thread	5L1A4-700-G2.4 (Ø 2.4 mm) 5L1A4-700-G3.2 (Ø 3.2 mm) 5L1A4-700-G4.0 (Ø 4.0 mm) 5L1A4-700-G4.8 (Ø 4.8 mm)		—	—
Self-locking lever (for straight models only)	—	—	—	131655

Drill chucks and keys (for replacement, supplied as standard with the drills)

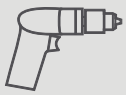
	Gear Ratio	Ø mm		Ref. No	Ref. No
Q2 Series	—	0 – 6	3/8" – 24	R0H-99	R1H-J253
	—	0 – 10	3/8" – 24	6A-99	R0J-J253
5 Series	J, K, K2, L, L2	0 – 6	3/8" – 24	R0H-99	R1H-J253
	N, N2	0 – 10	3/8" – 24	R1M-99	R1M-J253
	5RA (L ratio)	0 – 10	3/8" – 24	R1M-99	R1M-J253
	5RA (N ratio)	2 – 13	3/8" – 24	R0K-99	R1T-J253
7 Series	H, J	0 – 6	3/8" – 24	R00A-99	R00A-J253
	K	0 – 10	3/8" – 24	6A-99	R0J-J253
	L, M, M3	0 – 10	3/8" – 24	R1M-99	R1M-J253
	N, N3, Q	2 – 13	3/8" – 24	R0K-99	R1T-J253
P33 Series	—	0 – 6	3/8" – 24	117269	117271
	—	0 – 8	3/8" – 24	CM115-313	117271
	—	0 – 10	3/8" – 24	117311	117312

Other Air Tools

Air tapper tools are ideal for low-cost, automated hole tapping in applications where high precision is not required. Also excellent for thread-chasing operations. Air riveters allow you to accurately and easily control tease throttle, the operator can change power on the job with no downtime. Air Sanders are compact and versatile while still allowing you high-precision work.

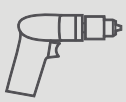
Other Air Tools

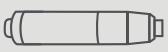
Air Tappers



Air Sanders

Air Riveters





Other Air Tools
Series Information

Q2 Series: Air Tappers

Air Tappers

- Rated power: 0.24 kW
- Sound level: 75 dBa
- Tool air inlet connection: 1/4" NPT
- Hose min. internal diameter: 6 mm

QP1S10D8

7 Series: Air Tappers

Air Tappers

- Dead handle assembly on 7 Series
- Rated power: 0.44 kW
- Sound level: 79 dBa
- Tool air inlet connection: 1/4" NPT
- Hose min. internal diameter: 8 mm

7RAQT4-EU

Other Air Tools
Series Information

AVC Series: Air Riveters

Accurate and easily controlled lightweight air riveters

- Beehive type rivet set retainer
- Tease throttle on models AVC10A1-EU, AVC12A1-EU and AVC13A1-EU
- Sound level: 94 - 97 dBa
- Tool air inlet connection: 1/4" NPT
- Hose min. internal diameter: 8 mm

AVC13A1-EU

AVC10A1-EU

PBA Series: Air Sanders

Air Sanders

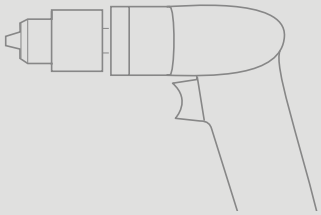
- POLA15000 delivered without pad
- Rated power: 0.22 kW
- Sound level: 78 dBa
- Tool air inlet connection: 1/4" BSP
- Hose min. internal diameter: 13 mm

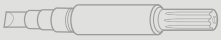
PBA416

POLA15000

Other Air Tools

Air Tappers | Pistol





Direct drive

Ref.	1 min rpm	MAX Nm Nm	kg	mm	MAX mm	in	mm	l/s
TRIGGER START								
QP1S10D8D	1000	5.2	0.85	183	6	Conical (CM1)	15	7.5
QP1S05D8D	500	9.8	0.85	183	6	Conical (CM1)	15	7.5
7RAQT4-EU	475	27	1.50	300	13	Conical (CM1)	22	12.7

Specifications at 6.2 bar (90 psi)

Air Sanders | Angle

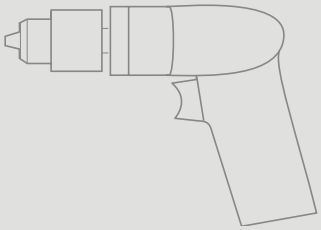
Direct drive

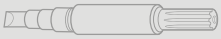
Ref.	1 min rpm	mm	mm	mm	kg	mm	l/s
BUTTON CONTROL							
PBA416	15000	—	—	475 x 15	1.05	65	9.7
POLA15000	15000	20-30-46-76	6.35	—	0.65	90	9.7

Specifications at 6.2 bar (90 psi)

Other Air Tools

Air Riveters | Pistol



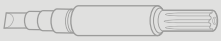


Direct drive

Ref.	Aluminum ø mm	Dural & soft icon ø mm	mm	kg	mm	ø mm	1 min.	ø mm	l/s
TRIGGER START									
AVC10A1-EU	3	3	143	1.2	48	14	3200	10	6
AVC12A1-EU	5	5	191	1.4	76	14	2100	10	6
AVC13A1-EU	6	6	216	1.5	101	14	1725	10	6
AVC26A1-EU	10	8	276	2.3	152	19	1120	12.7	7

Specifications at 6.2 bar (90 psi)

Air Riveters | Inline

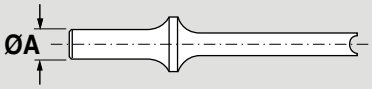


Direct drive

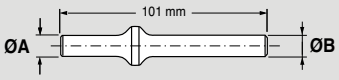
Ref.	Aluminum ø mm	Dural & soft icon ø mm	mm	kg	mm	ø mm	1 min.	ø mm	l/s
TRIGGER START									
AVC10C1-EU	3	3	172	0.95	48	14	3200	10	6
AVC26B1-EU	10	8	359	3.1	152	14	1120	12.7	7

Specifications at 6.2 bar (90 psi)

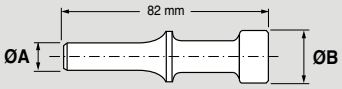
Air Riveters
Accessories



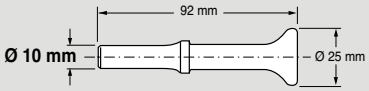
ø A mm	ø mm	Button head	Round head	Brazier head	Mushroom head	Flat head	Universal head
10	1	—	AV1-22B-2	—	—	—	—
10	2	—	—	—	—	—	AV1-22H-3
10	3	AV1-22A-4	AV1-22B-4	AV1-22C-4	—	—	—
10	4	—	—	AV1-22C-5	—	—	AV1-22H-5
10	5	AV1-22A-6	AV1-22B-6	AV1-22C-6	—	AV1-22G-8	AV1-22H-6
10	6	AV1-22A-8	AV1-22B-8	AV1-22C-8	AV1-22F-8	AV1-22G-8	AV1-22H-8
10	8	AV1-22A-10	AV1-22B-10	AV1-22C-10	—	AV1-22G-10	—
12.7	5	—	—	AV24-222C-6	—	—	AV24-222H-6
12.7	6	AV24-222A-8	AV24-222B-8	AV24-222C-8		AV24-222G-8	—
12.7	8	AV24-222A-10	AV24-222B-10	—	AV24-222F-10	AV24-222G-10	AV24-222H-10
12.7	9	AV24-222A-12	—	—	—	—	—



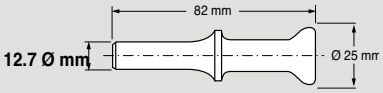
ø A mm	ø B mm	Ref. No
10	13	AV1-22S-16
10	16	AV1-22S-20
10	19	AV1-22S-24
10	22	AV1-22S-28



ø A mm	ø B mm	Ref. No
12.7	21	AV24-222S-26
12.7	30	AV24-222S-38



Ref. No. AV1-126D

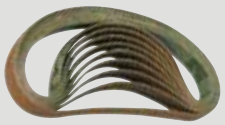


Ref. No. AV24-126D

Air Sanders
Accessories for POLA 15000

Rubber pad for self-adhesive discs

ø mm	Ref.
20	117155
30	116920
46	116930
76	116940



475 x 15 mm sanding belts (pack of 10 belts)

Grit	Ref.
36	002300
40	002301
50	002302
60	002303
80	002304
100	002305
120	002306

Collet for replacement

ø mm	Ref.
6	122629

Airline
Accessories

Filters – Regulators – Lubricators

- Max. inlet pressure: 17 bar (250 psi)
- Filter element 5µ
- Automatic drain
- Metallic bowl (with sight glass on 3/8" and 1/2" models)
- Gauge
- Temperature range: -18°C to +79°C

COM. FILTER REGULATOR — COMBINED UNIT (FRL)

Ref.	in	bar l/min		ml	A mm	B mm	C mm
COM. FILTER REGULATOR							
P39124-624	1/4" NPT	0 – 10	1330	12	157	40	—
P39234-614	3/8" NPT	0 – 10	2550	38	229	84	—
P39344-614	1/2" NPT	0 – 10	4870	83	276	70	—
COMBINED UNIT (FRL)							
C38121-821	1/4" NPT	0 – 10	1300	21/21	120	148	80
C38231-811	3/8" NPT	0 – 10	2400	30/44	168	168	77
C38341-811	1/2" NPT	0 – 10	4250	83/110	221	217	90

Bracket for Filter/Regulator (F.R.)

F.R. model	Ref. bracket
P39124-624	104403
P39234-614	104404
P39344-614	104405

Modular pipe adapter

Lockout valve

Modular clamp

F.R. model	F.R.L model	Adapter port size	Ref. Adapter	Ref. lockout valve	Ref. modular clamp
P39124-624	C38121-821	1/8" NPT 1/8" BSP 1/4" BSP	104474-1 104474-A 104474-B	1044390-2 (1/4" NPT port size)	104394
P39234-614	C38231-811	1/4" NPT 1/4" BSP 3/8" BSP	104475-2 104475-B 104475-C	104391-3 (3/8" NPT port size)	104395
P39344-614	C38341-811	3/8" NPT 3/8" BSP 1/2" BSP	104398-3 104398-C 104398-D	104392-4 (1/2" NPT port size)	104396

Supercoil™ recoil hose assemblies

Ref.	mm	in	m	m	mm
IR36103	9.5	1/4" NPT	3	2.5	150
IR36203	9.5	1/4" NPT	6	5.0	340
IR36303	9.5	1/4" NPT	9	8.0	520
IR36102	9.5	3/8" NPT	3	2.5	150
IR36202	9.5	3/8" NPT	6	5.0	340
IR36302	9.5	3/8" NPT	9	8.0	520
IR37102	13	1/2" NPT	3	2.5	165
IR37202	13	1/2" NPT	6	5.0	380
IR37302	13	1/2" NPT	9	8.0	580

Fastening and Drilling Tools
Accessories

Horizontal hanger (for pistol models only)	
Horizontal hanger (for angle models only)	
Vertical hanger (for straight and angle models only)	
Dead handle	
Piped away exhaust kit (for straight models only)	
Exhaust hose	
Comfort grip (straight and angle/lever)	
Comfort grip (pistol screwdrivers)	
Replacement clutch adjusting key (shut-off and cushion clutch models)	
Clutch springs/min. torque	

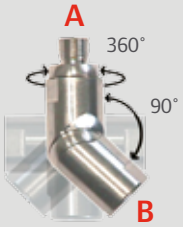
For Q2 screwdrivers only

Color differentiating components: pistol buttplate (for pistol models)	TRP-B-R (orange) TRP-B-G (green) TRP-B-B (blue) TRP-B-Y (light grey)	
Color differentiating components: flanged adjustment cover (for straight models)	TRH-40-23-R (orange) TRH-40-23-G (green) TRH-40-23-B (blue) TRH-40-23-Y (light grey)	
Color differentiating components: non-flanged adjustment cover (for straight models)	TRH-40-24-R (orange) TRH-40-24-G (green) TRH-40-24-B (blue) TRH-40-24-Y (light grey)	

Q2 Series	41 Series	5 Series	7 Series	8 Series	9 Series	LD Series	BALD Series	Power Pulse	P33 Series
TRP-A365	**48934**	**7RA-A366**	**7RA-A366**	—	—	**124621**	**124621**	**EQ106P-365**	**118303**
3RA-365 (angle drills only)	**48934**	**6WS-366**	**6WS-366**	**8SL-366**	**9SL-366**	—	**129851** (except 1202)	—	—
7L-365	**IR48426-1**	**5RL-365**	**7L-365**	**7L-365**	—	**118303**	**118303**	**EQ106S-365** (except 900, 1100, 1900, and 3000)	**128065**
—	**48931**	**728N-A48** + **5A-49** (x2)	**R1A-A48** + **7A-49** (x2)	**9SL-48** + **8SL-A60**	**9SL-48** + **9SL-A60**	—	—	—	**131899**
LG1-K284	—	**5L-K184**	**7L-K284**	—	—	—	—	—	—
3RL-284	**46490** + **46477**	—	—	—	—	—	—	—	—
—	—	**CG-5RL** (except angle wrenches)	**CG-7RL** **CG-7RLD** (angle wrenches)	—	—	—	—	—	—
TRP-40-1 (small)	—	**CG-5RA**	**CG-7RA**	—	—	—	—	—	—
TRH-478	(standard screwdriver)	**5C1-416**	**5C1-416**	—	—	**124397** (LD12, LD22)	**124397** (BALD12,22)	**04352241** (1.5 mm) 04355012 (2.0 mm) **04352258** (5.0 mm)	—
—	—	—	—	—	—	**124542** 1 Nm: LD12 and BALD12, except 1202 **419300** 1.5 Nm: LD22& BALD22, except 2203 **127407** 3 Nm: LD/BALD32		—	—

Variacor air hose universal joint

Ø A	Ø B	Ref.
1/8" NPT	1/4" BSP	DV7MN18FB14
1/4" NPT	1/4" BSP	DV7MN12FB14
1/4" BSP	1/4" BSP	DV7MB14FB14
3/8" BSP	3/8" BSP	DV11MB38FB38




ARO
ARO

Accessories

Accessories
Calibration Equipment

EXTT – TORQUE TESTER

EXTA – TORQUE ANALYSER

EXTA & EXTT Expert Torque Analyser / Tester

- Monitors torque, angle, time, and pulse count
- Reads in peak, click, pulse, or track mode
- Stores 200 time-stamped readings
- Auto-recognition of Smart transducers
- Seven units of measure
- Selectable filter frequencies
- DC tool calibration via ICS software
- Selectable power-save settings
- Selectable languages include English, French, German, Italian, and Spanish

EXTT Series — Expert Torque Testers

Model	CCN	Nm	Rundown Adapter*	Rundown Adapter Service Kit
EXTT-1	45654043	0.1 – 1	ETT-RA-1	ETT-RA-1-KIT
EXTT-4	45654050	0.4 – 4	ETT-RA-4	ETT-RA-40-KIT
EXTT-12	45654068	1.2 – 12	ETT-RA-12	ETT-RA-12-KIT
EXTT-30	45654076	3.0 – 30	ETT-RA-30	ETT-RA-30-KIT

* EXTT tester includes rundown adapter, carrying case, battery charger, manuals, and a certicficate of calibration.

EXTA Torque Analyser:

Designed for portability and use with a broad range of external transducers

Part no.(1)	CCN	External transducer	Data transfer	Auto recognition
EXTA	45654035	Smart of Industry standard	PC or printer	Yes

(1) EXTA torque analyser includes carrying case, battery charger, manuals, and neck strap.

Accessories
Calibration Equipment

Rotary Transducers

They are used mainly to control dynamic torque reached during fastening operations performed with mechanical or hand tools. With appropriate joint simulators recommended by Ingersoll Rand, they can also be used in laboratories and workshops.

Part no. Industry Standard	Part no. Smart transducers(1)		Torque range (Nm)	Drive size (in)
	Torque only	Torque & angle		
TR5H4	TRD5H4	TRDA5H4	0.25 – 5	¼"
TR20H4	TRD20H4	TRDA20H4	1 – 20	¼"
TR20S4	TRD20S4	TRDA20S4	1 – 20	¼"
TR75S6	TRD75S6	TRDA75S6	3.8 – 75	⅜"
TR180S8	TRD180S8	TRDA180S8	9 – 180	½"
TR250S12	—	—	12.5 – 250	¾"
TR500S12	TRD500S12	TRDA500S12	25 – 500	¾"

(1) TRD & TRDA are automatically recognized and calibrated for immediate use when attached to EXTA with fixed cable provided.

TR and TRD rotary transducers

JKR joint simulator

Joint simulators for rotary transducers

Part no.	Max. torque (Nm)	Output drive (in)	Input drive (in)	Joint thread
JKR20	28	¼	13	M8 – 1.25
JKR75	75	⅜	19	M12 – 1.75
JKR180	180	½	24	M16 – 2.0
JKR500	500	¾	36	M24 – 3.0

TS transducer with optional cable and JKS joint

TS transducer

Stationary Transducers

They are used both in workshops as well as on assembly lines. They allow quick check of the torque set of a power or hand tool. For power tool verification they are usually used with an appropriate joint simulator. The simulator joint rate can be adjusted to emulate different joint conditions from hard to soft. Transducers with joint simulator kits are very useful in tool cribs to preset power tools for production and test power tool capability under different joint rates.

TRANSDUCER Part no.	Max. torque (Nm)	Drive size (in)	JOINT SIMULATOR Part no	Max. torque (Nm)	Input drive (in)	Joint threat (mm)	Replacement bolt kit for joint simulator
TS30S4(2)	1.5 – 30	¼	JKS30	20	13	M8 – 1.25	JKS30-BKIT
TS150S6(2)	7.5 – 150	⅜	JKS150	75	19	M12 – 1.75	JKS150-BKIT
TS300S8(2)	15 – 300	½	JKS300	180	24	M16 – 2.0	JKS300-BKIT
TS1000S12(2)	50 – 1000	¾	JKS1000	500	36	M24 – 3.0	JKS1000-BKIT

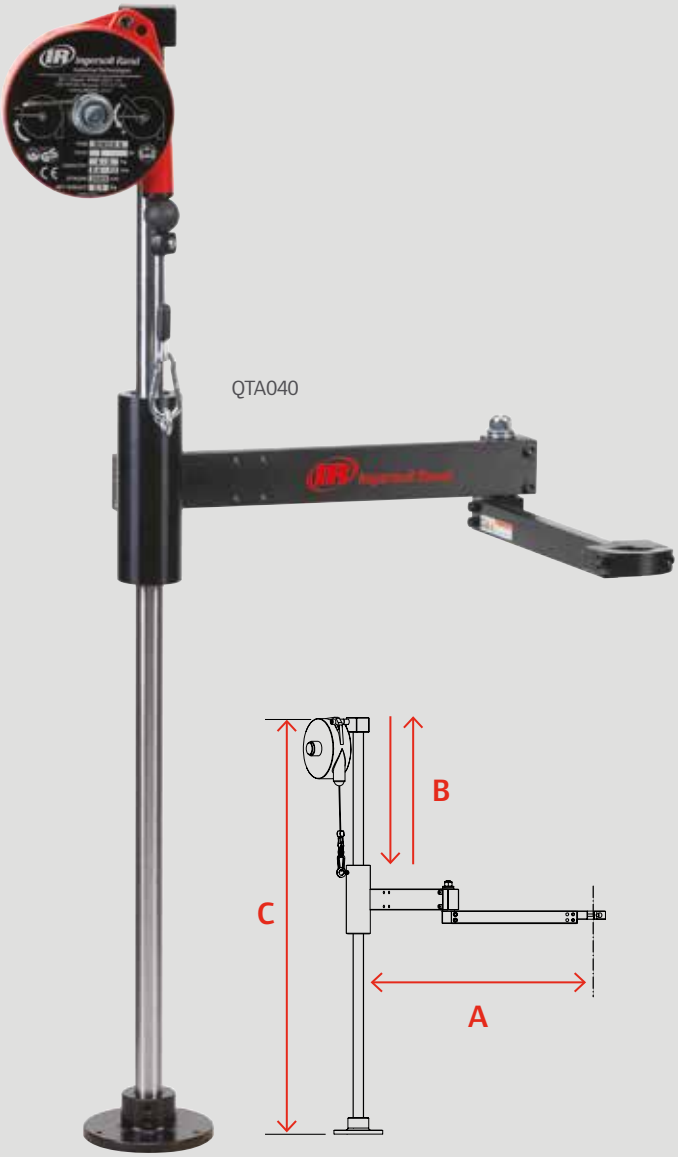
Transducers overload capacity up 110% of full capacity, accuracy: 0,3 % FSD, zero offset stability 0,1%/°C, operating temperature: 5 – 40°C.
(2) Also available as TSD "Smart" Series with fixed cable and automatic recognition and calibration by EXTA.

Accessories
Bench-Mounted Torque Reaction Arms

Standard Equipment
- Anodized aluminum body on bearing and chrome-plated pole
- Die-cast aluminum spring balancer
- Standard inline tool holder up to 100 Nm(1)
- Cable management clips to route air hose or DC tool cable

Specifications

Ref.	MAX Nm Nm	kg	A mm	B mm	C mm
QTA010	10	1.2	380	330	706
QTA020	20	2.3	508	368	808
QTA040	40	3.0	635	445	1008
QTA100	100	3.6	762	445	1008
QTA150(2)	150	4.5	1321	559	2000



QTA040

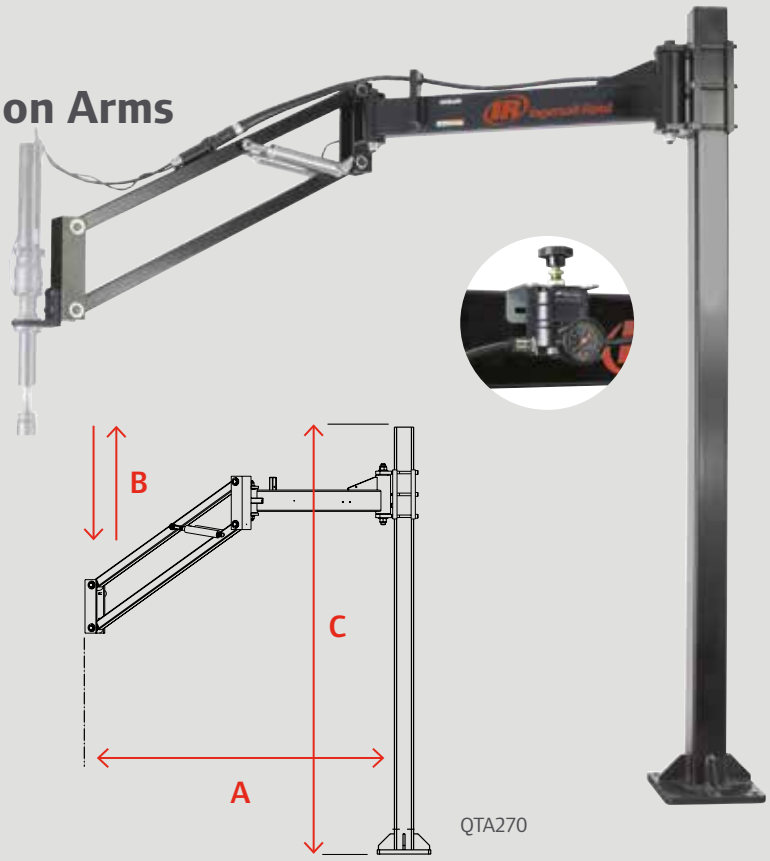
QTA150, position 1

QTA150, position 2

(1) See following page for other tool holders.
(2) The QTA150 can be easily configured as either a bench-mounted or floor-mounted torque arm and reconfigured as the job demands.

Accessories

Floor-Mounted Torque Reaction Arms



QTA270

Standard Equipment

- Adjustable arm height at column
- Air cylinders and regulator
- Cable management clips to route air hose or DC tool cable
- Safety stop

Specifications

Ref.	MAX Nm Nm	kg	A mm	B mm	C mm
QTA270	270	10	1524	477	2000
QTA475	475	23	2007	590	2000

Generic clamp style tool holders

Type – Tipo	QTA010	QTA020	QTA040	QTA100
Inline (included with arm)	ITC010-1C	ITC040-1C	ITC040-1C	ITC100-1C
1 Right Angle	ATC010-1C	ATC040-1C	ATC040-1C	ATC100-1C
2 Pistol	PTC010-1C	PTC040-1C	PTC040-1C	—
3 Rotating	RTC010-1C	RTC040-1C	RTC040-1C	—
4 1/4" NPT	NTC010-1T	—	—	—

Generic tool holders are available for arms up to 100 Nm (these arms are delivered with an inline tool holder as standard).
Flange mounting is recommended for inline tools with torque capacity above 40 Nm.
Please note the tool diameter range for generic holders: QTA010: 25 – 40 mm, QTA020/QTA040/QTA100: 28 – 52 mm.

Accessories
QA Series and QE Series Tool Holders

Ingersoll Rand Tools	QTA010	QTA020	QTA040	QTA100	QTA150	QTA270	QTA475
LEVER TO START							
QE4	—	CTC040-K1B	CTC040-K1B	—	—	—	—
QE6	—	CTC040-K2B	CTC040-K2B	—	—	—	—
QE8 with (GEM120-K48)	—	—	—	—	CTC150-K2B	—	—
QE8 with (integrated flange)	—	—	—	—	CTC150-K3B	CTC270-K3B	—
QE8 230 Nm	—	—	—	—	—	CTC270-K4B	—
QE8 400 Nm	—	—	—	—	—	—	CTC475-K5B
QA4	—	CTC040-K6B	CTC040-K6B	CTC100-K6B	—	—	—
QA4 < 28 Nm & QA6	—	CTC040-K1B	CTC040-K1B	CTC100-K1B	—	—	—
QA4 46 Nm	—	—	—	CTC100-K2B	—	—	—
QA8 < 151 Nm	—	—	CTC040-K1B	CTC100-K1B	CTC150-K2B	—	—
QA8 < 56 Nm	—	—	CTC040-K1B	CTC100-K1B	CTC150-K2B	—	—
QA8 > 150 Nm	—	—	—	CTC100-K2B	CTC150-K3B	CTC270-K3B	—
QA8 > 55 Nm	—	—	—	CTC100-K2B	CTC150-K3B	CTC270-K3B	—
PUSH TO START							
QE4	CTC040-K1P	CTC040-K1P	CTC040-K1P	—	—	—	—

Note: Every Ingersoll Rand QE- or QA-specific tool holder listed in the table above accepts both angle and inline tools but requires an integrated flanged gear case or bolt-on mounting flange to attach the tool holder to the tool.
If your tool came with mounting style P (with letter "P" in the model number) order Part No. 15E4-K48 for any Ingersoll Rand-specific tool holder that ends with "1B" – Order Part No. GEM120-K48 for any Ingersoll Rand-specific tool holder that ends with "2B" – Order Part No. QA4-K48 for any Ingersoll Rand-specific tool holder that ends with "6B".

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