

# Ingersoll-Rand®

## New Range

## Q2 Assembly Tools

The new Q2 Series assembly tools set new standards for ergonomic comfort, while exceeding global industry standards for performance and consistent, long term torque accuracy.

The full line of pistol-grip, straight and angle tools reflects light weight, compact size, and easy accessibility for a variety of tasks.

The Q2 screwdriver range offers standard features such as asset management chip, speed adjustment facility, soft-grip surface overmolded on a composite core - and interchangeable air inlet location on pistol models.

The Q2 precision drills offer as standard, ergonomically designed housing, variable speed control, and a full range of configurations with 5 different choices of angle heads / equipment.



High Performance Ergonomics



A Q2 screwdriver in test for measurement of torque reaction, muscle efforts, temperature conductivity of tool handle and total work performance.

### High Performance Ergonomics

Our new Q2 Series of air fastening tools is a perfect example. Every angle, every feature of the tools has been designed with the user in mind – from shape to feel to control. This focus on real-world user input means that your operators can work longer comfortably, while reducing lost-time injuries and improving productivity and quality.

### The Q2 Series tools incorporate...

- Compact size and light weight
- Even balance
- Two-finger triggers and contoured levers for reduced stress and greater distribution of grip force
- Low-force forward/reverse controls.

But in the right hands, ergonomics means more than just comfort. While the carefully conceived external design of the Q2 Series provides the handling and balance necessary for control and quality, the uniquely engineered Q2 Series clutch delivers exceptional accuracy and consistency. Which means cycle #1 is exactly the same as cycle #65,345, which is exactly the same as cycle #500,843. And more efficient, high-output motors deliver greater torque at any given speed than competitive models, so your operators can cover more applications with fewer tools.

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# Q2 Fastening Tools



## Features

- Torque range (soft draw) 0.3 to 11.6 Nm
- Three types of clutches available:
  - ⇨ **Precision shut-off clutch** - Recommended for assembling where precise torque control is required
  - ⇨ **Adjustable cushion clutch** - Recommended for assembling that requires a torque limiting clutch
  - ⇨ **Direct drive (stall)** - Recommended for soft pull applications not requiring critical torque control

## Standard Equipment

- Asset management chip.
- Speed adjustment facility on straight and angle models
- Suspension bail on straight and angle models
- Interchangeable air inlet location on pistol models: top or bottom
- Clutch spring(s)



Color-coded components available as an option - allow tool differentiation by torque setting or calibration date.



QA1L18S9LD (precision shut-off clutch model)



QP1T20S1TD (precision shut-off clutch model)



QS1P17C1D (adjustable cushion clutch model)

Models with 1/4" hex QC <sup>(1)</sup>	Models with 1/4" hex DS <sup>(1)</sup>	Models with 1/4" SQ <sup>(1)</sup>	Models with 3/8" SQ <sup>(1)</sup>	Torque range (soft joint)	Free speed	Weight	Length	Clutch springs <sup>(2)</sup>		
				Nm	rpm	kg	mm	mm	mm	
<b>ANGLE SCREWDRIVERS / NUTRUNNERS* - REVERSIBLE - SHUT-OFF CLUTCH - LEVER START</b>										
-	-	QA1L18S4SD	-	0.4 - 3.0	1750	0.85	299	9.5	27	L, M
QA1L18S1LD	QA1L18S9LD	QA1L18S4LD	QA1L18S6LD	0.4 - 3.0	1750	0.95	302	13	34	L, M
-	-	QA1L12S4SD	-	0.4 - 3.7	1270	0.85	299	9.5	27	L, M
QA1L12S1LD	QA1L12S9LD	QA1L12S4LD	QA1L12S6LD	0.4 - 3.7	1270	0.95	302	13	34	L, M
-	-	QA1L08S4SD	-	0.4 - 4.1	850	0.85	299	9.5	27	L, M, H
QA1L08S1LD	QA1L08S9LD	QA1L08S4LD	QA1L08S6LD	0.4 - 5.3	850	0.95	302	13	34	L, M, H
-	-	QA1L05S4SD	-	0.4 - 4.1	500	0.85	299	9.5	27	L, M, H
QA1L05S1LD	QA1L05S9LD	QA1L05S4LD	QA1L05S6LD	0.4 - 6.4	500	0.95	302	13	34	L, M, H
QA1L05S1XLD	QA1L05S9XLD	QA1L05S4XLD	QA1L05S6XLD	1.4 - 10.0	500	1.03	329	13	34	L, M
QA1L02S1LD	QA1L02S9LD	QA1L02S4LD	QA1L02S6LD	0.4 - 6.4	250	0.95	302	13	34	L, M, H
QA1L02S1XLD	QA1L02S9XLD	QA1L02S4XLD	QA1L02S6XLD	1.4 - 11.5	250	1.03	329	13	34	L, M
<b>ANGLE SCREWDRIVERS / NUTRUNNERS* - REVERSIBLE - CUSHION CLUTCH - LEVER START</b>										
QA1L18C1LD	QA1L18C9LD	QA1L18C4LD	QA1L18C6LD	0.4 - 3.0	1750	0.95	302	13	34	L, M
QA1L12C1LD	QA1L12C9LD	QA1L12C4LD	QA1L12C6LD	0.4 - 3.7	1270	0.95	302	13	34	L, M
QA1L08C1LD	QA1L08C9LD	QA1L08C4LD	QA1L08C6LD	0.4 - 5.3	850	0.95	302	13	34	L, M, H
QA1L05C1LD	QA1L05C9LD	QA1L05C4LD	QA1L05C6LD	0.4 - 6.4	500	0.95	302	13	34	L, M, H
QA1L02C1LD	QA1L02C9LD	QA1L02C4LD	QA1L02C6LD	0.4 - 6.4	250	0.95	302	13	34	L, M, H
<b>ANGLE SCREWDRIVERS / NUTRUNNERS* - REVERSIBLE - DIRECT DRIVE (STALL) - LEVER START</b>										
QA1L18D1LD	-	QA1L18D4LD	QA1L18D6LD	3.2	1750	0.70	227	13	34	-
QA1L12D1LD	-	QA1L12D4LD	QA1L12D6LD	4.0	1270	0.70	227	13	34	-
QA1L08D1LD	-	QA1L08D4LD	QA1L08D6LD	6.8	850	0.70	227	13	34	-
QA1L05D1LD	-	QA1L05D4LD	QA1L05D6LD	11.6	500	0.70	227	13	34	-
QA1L02D1LD	-	QA1L02D4LD	QA1L02D6LD	9.7	250	0.70	227	13	34	-

Lever start models	Lever/push start models	Push start models	Torque range (soft joint) Nm	Free speed rpm	Weight kg	Length with lever mm	Length with push start mm	Bit holder <sup>(1)</sup> in	Clutch springs <sup>(2)</sup>
<b>STRAIGHT SCREWDRIVERS – SHUT-OFF CLUTCH</b>									
QS1L28S1D	QS1T28S1D	QS1P28S1D	0.3 - 1.1	2800	0.6 to 0.7	241	223	1/4 hex QC	<b>L</b>
QS1L20S1D	QS1T20S1D	QS1P20S1D	0.3 - 2.5	2000	0.6 to 0.7	241	223	1/4 hex QC	<b>L, M</b>
QS1L17S1D	QS1T17S1D	QS1P17S1D	0.3 - 3.1	1710	0.6 to 0.7	241	223	1/4 hex QC	<b>L, M</b>
QS1L10S1D	QS1T10S1D	QS1P10S1D	0.3 - 4.5	1000	0.6 to 0.7	241	223	1/4 hex QC	<b>L, M, H</b>
QS1L05S1D	QS1T05S1D	QS1P05S1D	0.3 - 5.4	500	0.6 to 0.7	241	223	1/4 hex QC	<b>L, M, H</b>
QS1L02S1D	QS1T02S1D	QS1P02S1D	0.3 - 5.4	250	0.6 to 0.7	241	223	1/4 hex QC	<b>L, M, H</b>
<b>STRAIGHT SCREWDRIVERS – CUSHION CLUTCH</b>									
QS1L28C1D	QS1T28C1D	QS1P28C1D	0.3 - 1.1	2800	0.6 to 0.7	241	223	1/4 hex QC	<b>L</b>
QS1L20C1D	QS1T20C1D	QS1P20C1D	0.3 - 2.5	2000	0.6 to 0.7	241	223	1/4 hex QC	<b>L, M</b>
QS1L17C1D	QS1T17C1D	QS1P17C1D	0.3 - 3.1	1710	0.6 to 0.7	241	223	1/4 hex QC	<b>L, M</b>
QS1L10C1D	QS1T10C1D	QS1P10C1D	0.3 - 4.5	1000	0.6 to 0.7	241	223	1/4 hex QC	<b>L, M, H</b>
QS1L05C1D	QS1T05C1D	QS1P05C1D	0.3 - 5.4	500	0.6 to 0.7	241	223	1/4 hex QC	<b>L, M, H</b>
<b>STRAIGHT SCREWDRIVERS – DIRECT DRIVE (STALL)</b>									
QS1L28D1D	–	–	1.8	2800	0.6	241	–	1/4 hex QC	–
QS1L20D1D	–	–	2.9	2000	0.6	241	–	1/4 hex QC	–
QS1L17D1D	–	–	3.4	1710	0.6	241	–	1/4 hex QC	–
QS1L10D1D	–	–	5.2	1000	0.6	241	–	1/4 hex QC	–
QS1L05D1D	–	–	9.8	500	0.6	241	–	1/4 hex QC	–

Trigger start models	Trigger plus push start models	Torque range (soft joint) Nm	Free speed rpm	Weight kg	Length with lever mm	Side to centre distance mm	Bit holder <sup>(1)</sup> mm	Clutch springs <sup>(2)</sup> in
<b>PISTOL SCREWDRIVERS – SHUT-OFF CLUTCH</b>								
QP1S28S1TD	QP1T28S1TD	0.3 - 1.1	2800	0.80	211	15	1/4 hex QC	<b>L</b>
–	QP1T28S3TD	0.3 - 1.1	2800	0.80	211	15	1/4 hex <b>BG</b>	<b>L</b>
QP1S20S1TD	QP1T20S1TD	0.3 - 2.5	2000	0.84	223	15	1/4 hex QC	<b>L, M</b>
–	QP1T20S3TD	0.3 - 2.5	2000	0.84	223	15	1/4 hex <b>BG</b>	<b>L, M</b>
QP1S17S1TD	QP1T17S1TD	0.3 - 3.1	1710	0.84	223	15	1/4 hex QC	<b>L, M</b>
–	QP1T17S3TD	0.3 - 3.1	1710	0.84	223	15	1/4 hex <b>BG</b>	<b>L, M</b>
QP1S10S1TD	QP1T10S1TD	0.3 - 4.5	1000	0.84	223	15	1/4 hex QC	<b>L, M, H</b>
–	QP1T10S3TD	0.3 - 4.5	1000	0.84	223	15	1/4 hex <b>BG</b>	<b>L, M, H</b>
QP1S05S1TD	QP1T05S1TD	0.3 - 5.4	500	0.84	223	15	1/4 hex QC	<b>L, M, H</b>
–	QP1T05S3TD	0.3 - 5.4	500	0.84	223	15	1/4 hex <b>BG</b>	<b>L, M, H</b>
QP1S02S1TD	QP1T02S1TD	0.3 - 5.4	250	0.84	223	15	1/4 hex QC	<b>L, M, H</b>
<b>PISTOL SCREWDRIVERS – CUSHION CLUTCH</b>								
QP1S28C1TD	QP1T28C1TD	0.3 - 1.1	2800	0.80	211	15	1/4 hex QC	<b>L</b>
QP1S20C1TD	QP1T20C1TD	0.3 - 2.5	2000	0.84	223	15	1/4 hex QC	<b>L, M</b>
QP1S17C1TD	QP1T17C1TD	0.3 - 3.1	1710	0.84	223	15	1/4 hex QC	<b>L, M</b>
QP1S10C1TD	QP1T10C1TD	0.3 - 4.5	1000	0.84	223	15	1/4 hex QC	<b>L, M, H</b>
QP1S05C1TD	QP1T05C1TD	0.3 - 5.4	500	0.84	223	15	1/4 hex QC	<b>L, M, H</b>
QP1S02C1TD	QP1T02C1TD	0.3 - 5.4	250	0.84	223	15	1/4 hex QC	<b>L, M, H</b>
<b>PISTOL SCREWDRIVERS – DIRECT DRIVE (STALL)</b>								
QP1S28D1TD	–	1.8	2800	0.63	150	15	1/4 hex QC	–
QP1S20D1TD	–	2.9	2000	0.68	162	15	1/4 hex QC	–
QP1S17D1TD	–	3.4	1710	0.68	162	15	1/4 hex QC	–
QP1S10D1TD	–	5.2	1000	0.68	162	15	1/4 hex QC	–
QP1S05D1TD	–	9.8	500	0.68	162	15	1/4 hex QC	–

\* Specifications at 6.2 bar (90 PSI) – Air inlet connection 1/4" NPT – Recommended hose size 6 mm int. diameter – Sound level 75 dBA – Vibration < 2 m/s<sup>2</sup>.

Note: on direct drive models, torque may be adjusted by varying the air pressure.

(1) 1/4 hex QC = 1/4" Quick change • 1/4 hex DS = 1/4" wire detented hex bit holder • 1/4 hex BG = 1/4" bit finder • 1/4 SQ = 1/4" square drive • 3/8 SQ = 3/8" square drive

(2) Clutch springs available: L = Light, M = Medium, H = Heavy. Bold letter = Spring installed on the tool as standard.

# Q2 Production Drills



## Features

- Ergonomically designed housing provides a secure surface for operator grip.
- Double row ball bearing construction assures a maximum total runout of less than 0.1 mm for precise concentric holes.
- Variable speed control allows slow speed starting and high speed drilling.
- Asset management chip.
- Excellent power-to-weight ratio gets the job done with less fatigue.
- 360° adjustable head on angle models for ideal orientation with the throttle.
- Other angle head configurations available on request.

Models with 6 mm chuck	Models with 10 mm chuck	Free speed rpm	Stall torque Nm	Weight with 6 mm chuck kg	Weight with 10 mm chuck mm	Length with chuck mm	Side to centre dist. with 6 mm chuck mm	Side to centre dist. with 10 mm chuck mm
<b>PISTOL DRILLS</b>								
QP511LD	QP512LD	5100	1.1	0.65	0.75	171	15	18
QP381D	QP382D	3800	1.5	0.70	0.80	184	15	18
QP301LD	QP302LD	3000	1.8	0.65	0.75	171	15	18
QP201D	QP202D	2000	2.8	0.70	0.80	184	15	18
QP151D	QP152D	1500	3.4	0.70	0.80	184	15	18
QP091D	QP092D	900	5.8	0.70	0.80	184	15	18
QP051D	QP052D	500	9.8	0.70	0.80	184	15	18
<b>STRAIGHT DRILLS</b>								
QS511D	QS512D	5100	1.2	0.62	0.71	205	15	18
QS381D	QS382D	3800	1.5	0.62	0.71	205	15	18
QS301D	QS302D	3000	1.9	0.62	0.71	205	15	18
QS201D	QS202D	2000	3.1	0.62	0.71	205	15	18
QS151D	–	1500	3.8	0.62	–	205	15	–
QS091D	–	900	6.4	0.62	–	205	15	–
QS051D	–	500	10.9	0.62	–	205	15	–

Models with 6 mm chuck	Models with 3/16" collet <sup>(1)</sup>	Mod. with 1/4"-28 female thread	Mod. with 3/8"-24 male thread	Free speed rpm	Stall torque Nm	Weight wo. chuck <sup>(2)</sup> kg	Length wo. chuck <sup>(2)</sup> mm	Side to centre dist. wo. chuck <sup>(2)</sup> mm
<b>90° ANGLE HEAD DRILLS (head height 27 mm)</b>								
QA3519D	QA3539D	QA3559D	QA3579D	3500	1.6	0.94	238	13.6
QA2719D	QA2739D	QA2759D	QA2779D	2700	2.3	0.62	221	9.5
QA1719D	QA1739D	QA1759D	QA1779D	1750	3.6	0.62	221	9.5
QA1219D	QA1239D	QA1259D	QA1279D	1270	4.5	0.62	221	9.5
QA0819D	QA0839D	QA0859D	QA0879D	850	7.6	0.62	221	9.5
QA0519D	QA0539D	QA0559D	QA0579D	500	12.8	0.62	221	9.5
<b>45° ANGLE HEAD DRILLS (head height 34 mm)</b>								
–	QA2734D	QA2754D	–	2700	1.9	0.67	268	8.3
–	QA2134D	QA2154D	–	2100	3.1	0.67	268	8.3
–	QA1234D	QA1254D	–	1270	5.1	0.67	268	8.3

\* Specifications at 6.2 bar (90 PSI) – Air inlet connection 1/4" NPT – Recommended hose size 6 mm int. diameter – Sound level 75 dBA.

(1) 3/16" Collet with 9/32"-40 thread - collet outside diameter 19 mm — (2) 6 mm chuck: extra length 17 mm - Outside diameter 27 mm - Extra weight 0.32 kg.



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