



**PNEUMATIC ASSEMBLY TOOLS FOR GENERAL INDUSTRY APPLICATIONS**

**SCREWDRIVERS, NUTRUNNERS AND DRILLS**

# BEST INDUSTRIAL ASSEMBLY SCREWDRIVERS

Accuracy – Speed – Durability

The Q2 Series sets the standard for assembly tool ergonomics while delivering repeatable performance day in and day out across a full range of screwdrivers, nutrunners and drills.

## Q2 Series – Screwdrivers/Nutrunners/Drills

### Performance:

- Powerful – up to 5.7Nm (Screwdrivers), 11.5Nm (Nutrunners) & 12.5Nm (Drills)
- Fast – up to 2800rpm (screwdrivers & nutrunners) & 5100rpm (Drills)

### Ergonomics:

- Compact and lightweight; featuring an egg-shaped housing design for natural fit and maximum operator comfort

### For use in light & medium industries such as:

- Appliances
- HVAC
- Office Furniture
- Automotive Tiers
- And other assembly applications

Various torque, clutch and handle and air inlet options available!



1 Series and 41 Series feature a full range of production screwdrivers known for durability and performance at an economical price

### 1 Series Low Torque Pistol & Inline Screwdrivers

- .3Nm – 5.1Nm
- Up to 2800rpm
- Shut Off & Cushion Clutch Available
- Consistent and accurate performance across many applications



### Pistol & Inline Screwdrivers

- .1.7Nm – 13.6Nm
- Up To 2500rpm
- All Clutch Types available
- Skinsulate housing provides comfortable grip surface requiring less force and pressure during operation



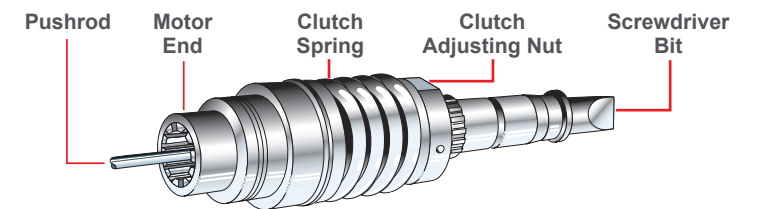
# CLUTCH SELECTIONS

Air Screwdrivers & Nutrunners

Selection of the appropriate clutch arrangement for your application is one of the first critical steps in specification. IR offers four basic types — adjustable precision shut-off, adjustable cushion clutch, positive jaw, and stall. The following introduction, coupled with the “Types of Joints” table on the following page, will help you define your requirements.

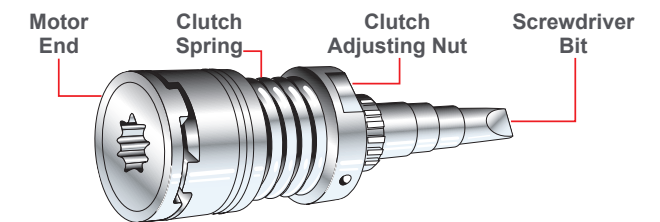
### Adjustable Precision Shut-Off Clutch

Designed for critical fastening applications involving plastics, composites, or metals that require precise torque control. Automatic shut-off reduces air consumption and torque reaction.



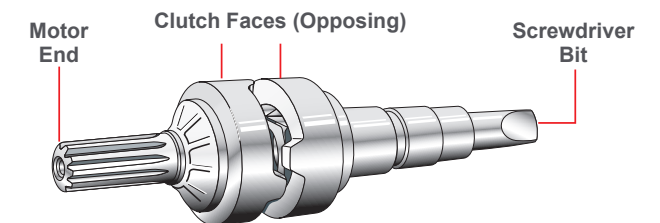
### Adjustable Cushion Clutch

Steel balls rolling between indented plates provide smooth disengaging at preset torque while minimizing vibration to the operator. Very good general-purpose torque limiting clutch.



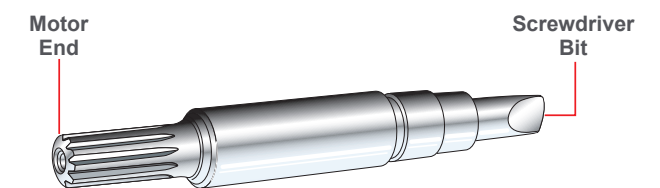
### Positive Jaw Clutch

Designed for applications where driving torque may exceed final seating torque as in wood and self-tapping applications. Applied torque is controlled by the operator and can be limited by regulating air line pressure.



### Stall

Designed for soft pull applications in wood and other materials not requiring critical torque control. Applied torque is controlled by the operator and can be limited by regulating air line pressure.



# CLUTCH SELECTION GUIDE

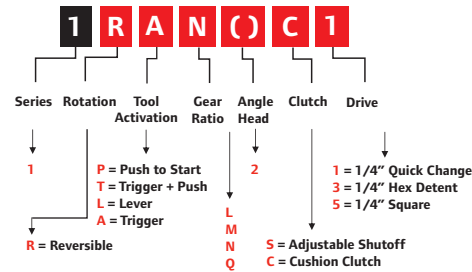
## Air Screwdrivers & Nutrunners

### Types of Joints

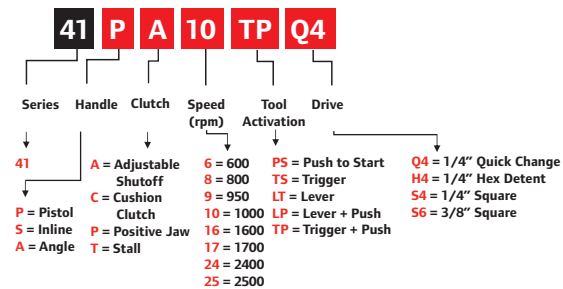
	Free Running-Slam (Hard Drive)	Compressing Gaskets (Soft Draw)	Self-Tapping Screws	Sheet Metal Screws	Wood Screws
Select the Clutch to Fit Your Job	 Resistance low at start and during rundown but peaks suddenly as bolt head seats.	 Turning resistance gradually increases as squeeze progresses to final turn.	 Initial resistance high through tapping travel, easing off until sudden (B) or gradual (A) stop.	 Starting torque builds until penetration made, then resistance slacks off until head seats.	 Low resistance at start builds gradually through entire rundown until head seats.
Adjustable Precision Shut-Off Clutch	EXCELLENT for all screw sizes where precise torque control is required.	BEST for all screw sizes where precise torque control is required.	BEST for all screw sizes except where tapping torque exceeds final torque.	EXCELLENT for all size screws — not suitable if tapping torque exceeds stripping torque.	Not recommended.
Adjustable Cushion Clutch	VERY GOOD for most screw sizes where torque control is IMPORTANT.	VERY GOOD for most screw sizes where torque control is IMPORTANT.	VERY GOOD for all screw sizes where tapping torque does not exceed final torque.	GOOD for most screws where final torque exceeds tapping torque.	FAIR for all screw sizes.
Positive Jaw Clutch	FAIR for all sizes where close torque control is not required.	GOOD for most screws where close torque control is not required.	GOOD where tapping torque greatly exceeds final torque.	VERY GOOD where sheets are not aligned — GOOD where tapping torque is higher than final torque.	BEST for all screw sizes.
Stall	GOOD for all screw sizes in hands of experienced operators.	GOOD for large and medium screws — must be adjusted to run rather slowly for small screws.	Not recommended unless stripping torque is considerably higher than tapping torque.	Not recommended unless stripping torque is considerably higher than tapping torque.	GOOD for large and medium screws — must be adjusted to turn slowly for small screws.

## MODEL IDENTIFICATION GUIDE

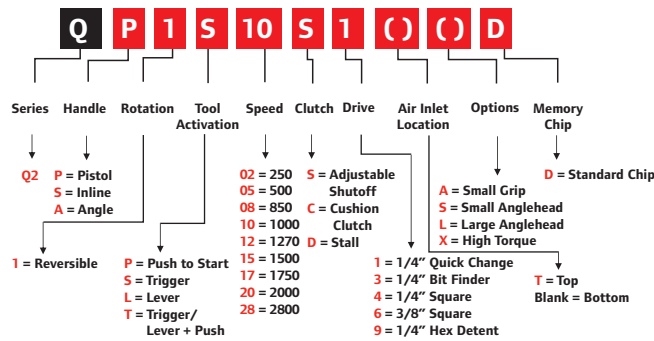
### 1 Series Air Screwdrivers / Nutrunners



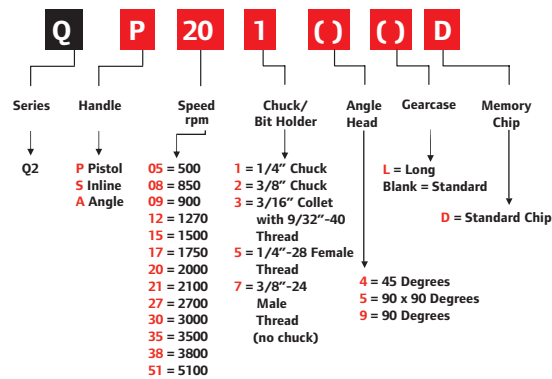
### 41 Series Air Screwdrivers / Nutrunners



### Q2 Series Air Screwdrivers / Nutrunners



### Q2 Series Air Drills



## Q2 SERIES PISTOL SCREWDRIVERS

Sets the standard for assembly tool ergonomics.



QP1T20S1TD

### FEATURES

- Torque range: 3.0 – 86.7 in-lbs (0.3 – 9.8 Nm)
- Speeds: 250 – 2,000 rpm
- Compact, lightweight, well-balanced design
- Contoured soft grip handle
- Two-finger trigger distributes grip force and reduces stress
- Top or bottom air inlets allow for optimal mounting
- Interchangeable handles offer custom fit for various hand sizes

### ADJUSTABLE SHUT OFF CLUTCH TYPE

Model	in-lbs (Nm)	in-lbs (Nm)	in-lbs (Nm)	rpm	lbs (kg)	in (mm)	in (mm)	in	cfm (L/min)
<b>CC PUSH-TO-START</b>									
QP1P20S1D	2.7 – 9.7 (0.3 – 1.1)	8.0 – 22.1 (0.9 – 2.5)	–	2,000	1.9 (0.8)	8.8" (223)	0.6" (15)	1/4"	16 (450)
QP1P10S1D	2.7 – 9.7 (0.3 – 1.1)	8.0 – 27.3 (0.9 – 3.1)	13.3 – 39.8 (1.5 – 4.5)	1,000	1.9 (0.8)	8.8" (223)	0.6" (15)	1/4"	16 (450)
QP1P10S1TD*	2.7 – 9.7 (0.3 – 1.1)	8.0 – 27.3 (0.9 – 3.1)	13.3 – 39.8 (1.5 – 4.5)	1,000	1.9 (0.8)	8.8" (223)	0.6" (15)	1/4"	16 (450)
<b>CC TRIGGER START</b>									
QP1S20S1D	2.7 – 9.7 (0.3 – 1.1)	8.0 – 22.1 (0.9 – 2.5)	–	2,000	1.9 (0.8)	8.8" (223)	0.6" (15)	1/4"	16 (450)
QP1S20S1TD*	2.7 – 9.7 (0.3 – 1.1)	8.0 – 22.1 (0.9 – 2.5)	–	2,000	1.9 (0.8)	8.8" (223)	0.6" (15)	1/4"	16 (450)
QP1S10S1D	2.7 – 9.7 (0.3 – 1.1)	8.0 – 27.3 (0.9 – 3.1)	13.3 – 39.8 (1.5 – 4.5)	1,000	1.9 (0.8)	8.8" (223)	0.6" (15)	1/4"	16 (450)
QP1S10S1TD*	2.7 – 9.7 (0.3 – 1.1)	8.0 – 27.3 (0.9 – 3.1)	13.3 – 39.8 (1.5 – 4.5)	1,000	1.9 (0.8)	8.8" (223)	0.6" (15)	1/4"	16 (450)
QP1S05S1D	2.7 – 9.7 (0.3 – 1.1)	8.0 – 28.3 (0.9 – 3.2)	13.3 – 47.8 (1.5 – 5.4)	500	1.9 (0.8)	8.8" (223)	0.6" (15)	1/4"	16 (450)
QP1S05S1TD*	2.7 – 9.7 (0.3 – 1.1)	8.0 – 28.3 (0.9 – 3.2)	13.3 – 47.8 (1.5 – 5.4)	500	1.9 (0.8)	8.8" (223)	0.6" (15)	1/4"	16 (450)
QP1S02S1D	2.7 – 9.7 (0.3 – 1.1)	8.0 – 28.3 (0.9 – 3.2)	13.3 – 47.8 (1.5 – 5.4)	250	1.9 (0.8)	8.8" (223)	0.6" (15)	1/4"	16 (450)
<b>CC TRIGGER + PUSH-TO-START</b>									
QP1T20S1TD*	2.7 – 9.7 (0.3 – 1.1)	8.0 – 22.1 (0.9 – 2.5)	–	2,000	1.9 (0.8)	8.8" (223)	0.6" (15)	1/4"	16 (450)
QP1T10S1D	2.7 – 9.7 (0.3 – 1.1)	8.0 – 27.3 (0.9 – 3.1)	13.3 – 39.8 (1.5 – 4.5)	1,000	1.9 (0.8)	8.8" (223)	0.6" (15)	1/4"	16 (450)
QP1T10S1TD*	2.7 – 9.7 (0.3 – 1.1)	8.0 – 27.3 (0.9 – 3.1)	13.3 – 39.8 (1.5 – 4.5)	1,000	1.9 (0.8)	8.8" (223)	0.6" (15)	1/4"	16 (450)
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### CUSHION CLUTCH CLUTCH TYPE

Model	in-lbs (Nm)	in-lbs (Nm)	in-lbs (Nm)	rpm	lbs (kg)	in (mm)	in (mm)	in	cfm (L/min)
<b>CC PUSH-TO-START</b>									
QP1P20C1D	2.7 – 9.7 (0.3 – 1.1)	8.0 – 22.1 (0.9 – 2.5)	–	2,000	1.9 (0.8)	8.8" (223)	0.6" (15)	1/4"	16 (450)
QP1P10C1D	2.7 – 9.7 (0.3 – 1.1)	8.0 – 22.1 (0.9 – 2.5)	13.3 – 39.8 (1.5 – 4.5)	1,000	1.9 (0.8)	8.8" (223)	0.6" (15)	1/4"	16 (450)
QP1P05C1D	2.7 – 9.7 (0.3 – 1.1)	8.0 – 28.3 (0.9 – 3.2)	13.3 – 47.8 (1.5 – 5.4)	500	1.9 (0.8)	8.8" (223)	0.6" (15)	1/4"	16 (450)
<b>CC TRIGGER START</b>									
QP1S10C1D	2.7 – 9.7 (0.3 – 1.1)	8.0 – 22.1 (0.9 – 2.5)	13.3 – 39.8 (1.5 – 4.5)	1,000	1.9 (0.8)	8.8" (223)	0.6" (15)	1/4"	16 (450)
QP1S10C1TD*	2.7 – 9.7 (0.3 – 1.1)	8.0 – 22.1 (0.9 – 2.5)	13.3 – 39.8 (1.5 – 4.5)	1,000	1.9 (0.8)	8.8" (223)	0.6" (15)	1/4"	16 (450)
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QP1S05C1TD*	2.7 – 9.7 (0.3 – 1.1)	8.0 – 28.3 (0.9 – 3.2)	13.3 – 47.8 (1.5 – 5.4)	500	1.9 (0.8)	8.8" (223)	0.6" (15)	1/4"	16 (450)
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QP1S02C1TD*	2.7 – 9.7 (0.3 – 1.1)	8.0 – 28.3 (0.9 – 3.2)	13.3 – 47.8 (1.5 – 5.4)	250	1.9 (0.8)	8.8" (223)	0.6" (15)	1/4"	16 (450)
<b>CC TRIGGER + PUSH-TO-START</b>									
QP1T10C1D	2.7 – 9.7 (0.3 – 1.1)	8.0 – 22.1 (0.9 – 2.5)	13.3 – 39.8 (1.5 – 4.5)	1,000	1.9 (0.8)	8.8" (223)	0.6" (15)	1/4"	16 (450)

### STALL TYPE

Model	in-lbs (Nm)	rpm	lbs (kg)	in (mm)	in (mm)	in	cfm (L/min)
<b>CC TRIGGER START</b>							
QP1S20D1TD*	25.7 (2.9)	2000	1.5 (0.7)	6.4" (162)	0.6" (15)	1/4"	16 (450)
QP1S10D1TD*	46 (5.2)	1000	1.5 (0.7)	6.4" (162)	0.6" (15)	1/4"	16 (450)
QP1S05D1TD*	86.7 (9.8)	500	1.5 (0.7)	6.4" (162)	0.6" (15)	1/4"	16 (450)

\*Top air inlet.

### Service and Accessories

#### Manuals:

- 16574527
- 80165939
- 16575219

#### Accessories:

Torque arm: QTA010  
Spring balancer, see page 13  
Hanger: TRP-A365

#### Kits:

ASO clutch tune-up kit: Q2-ASO-TK1

# Q2 SERIES INLINE SCREWDRIVERS

Sets the standard for assembly tool ergonomics.

## FEATURES

- Torque range: 2.7 – 51 in-lbs (0.3 - 5.8 Nm)
- Speeds: 250 – 2,800 rpm
- Compact, lightweight, well-balanced design
- Egg-shaped housing employs a natural fit
- Soft-grip surface over molded on a composite core provides a comfortable texture and temperature



QS1P20S1D

### ADJUSTABLE SHUT OFF CLUTCH TYPE

Model	in-lbs (Nm)	in-lbs (Nm)	in-lbs (Nm)	rpm	lbs (kg)	in (mm)	in (mm)	in	cfm (L/min)
<b>CC LEVER START</b>									
QS1L15S1D	2.7 – 9.7 (0.3 – 1.1)	8.0 – 27.4 (0.9 – 3.1)	–	1,500	1.5 (0.7)	9.5" (241)	0.9" (22)	1/4"	16 (450)
QS1L10S1D	2.7 – 9.7 (0.3 – 1.1)	8.0 – 22.1 (0.9 – 2.5)	13.3 – 39.8 (1.5 – 4.5)	1,000	1.5 (0.7)	9.5" (241)	0.9" (22)	1/4"	16 (450)
QS1L05S1D	2.7 – 9.7 (0.3 – 1.1)	8.0 – 28.3 (0.9 – 3.2)	13.3 – 47.8 (1.5 – 5.4)	500	1.5 (0.7)	9.5" (241)	0.9" (22)	1/4"	16 (450)
QS1L02S1D	2.7 – 9.7 (0.3 – 1.1)	8.0 – 28.3 (0.9 – 3.2)	13.3 – 47.8 (1.5 – 5.4)	250	1.5 (0.7)	9.5" (241)	0.9" (22)	1/4"	16 (450)
<b>CC PUSH-TO-START</b>									
QS1P20S1D	2.7 – 9.7 (0.3 – 1.1)	8.0 – 22.1 (0.9 – 2.5)	–	2,000	1.4 (0.6)	8.8" (223)	0.9" (22)	1/4"	16 (450)
QS1P15S1D	2.7 – 9.7 (0.3 – 1.1)	8.0 – 27.4 (0.9 – 3.1)	–	1,500	1.4 (0.6)	8.8" (223)	0.9" (22)	1/4"	16 (450)
QS1P10S1D	2.7 – 9.7 (0.3 – 1.1)	8.0 – 22.1 (0.9 – 2.5)	13.3 – 39.8 (1.5 – 4.5)	1,000	1.4 (0.6)	8.8" (223)	0.9" (22)	1/4"	16 (450)
QS1P05S1D	2.7 – 9.7 (0.3 – 1.1)	8.0 – 28.3 (0.9 – 3.2)	13.3 – 47.8 (1.5 – 5.4)	500	1.4 (0.6)	8.8" (223)	0.9" (22)	1/4"	16 (450)
QS1P02S1D	2.7 – 9.7 (0.3 – 1.1)	8.0 – 28.3 (0.9 – 3.2)	13.3 – 47.8 (1.5 – 5.4)	250	1.4 (0.6)	8.8" (223)	0.9" (22)	1/4"	16 (450)
QS1P15S3D	2.7 – 9.7 (0.3 – 1.1)	8.0 – 27.4 (0.9 – 3.1)	–	1,500	1.4 (0.6)	8.8" (223)	0.9" (22)	1/4"	16 (450)
QS1P10S3D	2.7 – 9.7 (0.3 – 1.1)	8.0 – 22.1 (0.9 – 2.5)	13.3 – 39.8 (1.5 – 4.5)	1,000	1.4 (0.6)	8.8" (223)	0.9" (22)	1/4"	16 (450)
QS1P05S3D	2.7 – 9.7 (0.3 – 1.1)	8.0 – 28.3 (0.9 – 3.2)	13.3 – 47.8 (1.5 – 5.4)	500	1.4 (0.6)	8.8" (223)	0.9" (22)	1/4"	16 (450)
<b>CC LEVER + PUSH-TO-START</b>									
QS1T20S1D	2.7 – 9.7 (0.3 – 1.1)	8.0 – 22.1 (0.9 – 2.5)	–	2,000	1.5 (0.7)	9.5" (241)	0.9" (22)	1/4"	16 (450)
QS1T15S1D	2.7 – 9.7 (0.3 – 1.1)	8.0 – 27.4 (0.9 – 3.1)	–	1,500	1.5 (0.7)	9.5" (241)	0.9" (22)	1/4"	16 (450)
QS1T10S1D	2.7 – 9.7 (0.3 – 1.1)	8.0 – 22.1 (0.9 – 2.5)	13.3 – 39.8 (1.5 – 4.5)	1,000	1.5 (0.7)	9.5" (241)	0.9" (22)	1/4"	16 (450)
QS1T05S1D	2.7 – 9.7 (0.3 – 1.1)	8.0 – 28.3 (0.9 – 3.2)	13.3 – 47.8 (1.5 – 5.4)	500	1.5 (0.7)	9.5" (241)	0.9" (22)	1/4"	16 (450)
QS1T02S1D	2.7 – 9.7 (0.3 – 1.1)	8.0 – 28.3 (0.9 – 3.2)	13.3 – 47.8 (1.5 – 5.4)	250	1.5 (0.7)	9.5" (241)	0.9" (22)	1/4"	16 (450)

### CUSHION CLUTCH CLUTCH TYPE

Model	in-lbs (Nm)	in-lbs (Nm)	in-lbs (Nm)	rpm	lbs (kg)	in (mm)	in (mm)	in	cfm (L/min)
<b>CC LEVER START</b>									
QS1L28C1D	3.0 – 9.7 (0.3 – 1.1)	–	–	2,800	1.5 (0.7)	9.5" (241)	0.9" (22)	1/4"	16 (450)
QS1L20C1D	3.0 – 9.7 (0.3 – 1.1)	8.0 – 22.1 (0.9 – 2.5)	–	2,000	1.5 (0.7)	9.5" (241)	0.9" (22)	1/4"	16 (450)
QS1L15C1D	3.0 – 9.7 (0.3 – 1.1)	8.0 – 22.1 (0.9 – 2.5)	–	1,500	1.5 (0.7)	9.5" (241)	0.9" (22)	1/4"	16 (450)
QS1L10C1D	3.0 – 9.7 (0.3 – 1.1)	8.0 – 22.1 (0.9 – 2.5)	13.3 – 40 (1.5 – 4.52)	1,000	1.5 (0.7)	9.5" (241)	0.9" (22)	1/4"	16 (450)
QS1L05C1D	3.0 – 9.7 (0.3 – 1.1)	8.0 – 28.3 (0.9 – 3.2)	13.3 – 47.8 (1.5 – 5.4)	500	1.5 (0.7)	9.5" (241)	0.9" (22)	1/4"	16 (450)
<b>CC PUSH-TO-START</b>									
QS1P28C1D	3.0 – 9.7 (0.3 – 1.1)	–	–	2,800	1.4 (0.6)	8.8" (223)	0.9" (22)	1/4"	16 (450)
QS1P20C1D	3.0 – 9.7 (0.3 – 1.1)	8.0 – 22.1 (0.9 – 2.5)	–	2,000	1.4 (0.6)	8.8" (223)	0.9" (22)	1/4"	16 (450)
QS1P15C1D	3.0 – 9.7 (0.3 – 1.1)	8.0 – 22.1 (0.9 – 2.5)	–	1,500	1.4 (0.6)	8.8" (223)	0.9" (22)	1/4"	16 (450)
QS1P10C1D	3.0 – 9.7 (0.3 – 1.1)	8.0 – 22.1 (0.9 – 2.5)	13.3 – 40.0 (1.5 – 4.5)	1,000	1.4 (0.6)	8.8" (223)	0.9" (22)	1/4"	16 (450)
QS1P05C1D	3.0 – 9.7 (0.3 – 1.1)	8.0 – 28.3 (0.9 – 3.2)	13.3 – 47.8 (1.5 – 5.4)	500	1.4 (0.6)	8.8" (223)	0.9" (22)	1/4"	16 (450)

### STALL TYPE

Model	in-lbs (Nm)	rpm	lbs (kg)	in (mm)	in (mm)	in	cfm (L/min)
<b>CC LEVER START</b>							
QS1L20D1D	26 (2.9)	2,000	1.3 (0.6)	9.5" (241)	0.9" (22)	1/4"	16 (460)
QS1L10D1D	51 (5.8)	1,000	1.3 (0.6)	9.5" (241)	0.9" (22)	1/4"	16 (460)

# Q2 SERIES ANGLE NUTRUNNERS

Sets the standard for assembly tool ergonomics.



QA1L05S4LD

## FEATURES

- Torque range: 3.5 – 101.5 in-lbs (0.4 – 11.5 Nm)
- Speeds: 250 – 1,750 rpm
- Offers precise torque control in a quiet, award-winning ergonomic package
- Compact, lightweight, well-balanced design
- Contoured soft grip handle
- Low force forward reverse control
- Recommended for applications where precise torque control is required

Series	75 dBA	1/4" NPT	1/4" (6 mm)	16 cfm (450 L/min)
Q2				

### ADJUSTABLE SHUT OFF CLUTCH TYPE

Model	in-lbs (Nm)	in-lbs (Nm)	in-lbs (Nm)	rpm	lbs (kg)	in (mm)	in (mm)	in (mm)	in
<b>CC LEVER START</b>									
QA1L18S4SD	3.5 – 11.5 (0.4 – 1.3)	9.3 – 26.1 (1.05 – 2.95)	–	1,750	1.9 (0.9)	11.8" (300)	0.38" (9.5)	1.1" (28)	1/4"
QA1L18S1LD	3.5 – 11.5 (0.4 – 1.3)	9.3 – 26.1 (1.05 – 2.95)	–	1,750	2.1 (1.0)	11.9" (302.3)	0.52" (13.2)	1.3" (33)	1/4"
QA1L12S4LD	3.5 – 11.5 (0.4 – 1.3)	9.3 – 32.2 (1.1 – 3.64)	–	1,270	2.1 (1.0)	11.9" (302.3)	0.52" (13.2)	1.3" (33)	1/4"
QA1L12S4SD	3.5 – 11.5 (0.4 – 1.3)	9.3 – 32.2 (1.1 – 3.64)	–	1,270	1.9 (0.9)	11.8" (300)	0.38" (9.5)	1.1" (28)	1/4"
QA1L12S1LD	3.5 – 11.5 (0.4 – 1.3)	9.3 – 32.2 (1.1 – 3.64)	–	1,270	2.1 (1.0)	11.9" (302.3)	0.52" (13.2)	1.3" (33)	1/4"
QA1L12S9LD	3.5 – 11.5 (0.4 – 1.3)	9.3 – 32.2 (1.1 – 3.64)	–	1,270	2.1 (1.0)	11.9" (302.3)	0.52" (13.2)	1.3" (33)	1/4"
QA1L08S4LD	3.5 – 11.5 (0.4 – 1.3)	9.3 – 33.4 (1.05 – 3.77)	15.7 – 47.2 (1.77 – 5.33)	850	2.1 (1.0)	11.9" (302.3)	0.52" (13.2)	1.3" (33)	1/4"
QA1L08S6LD	3.5 – 11.5 (0.4 – 1.3)	9.3 – 33.4 (1.05 – 3.77)	15.7 – 47.2 (1.77 – 5.33)	850	2.1 (1.0)	11.9" (302.3)	0.52" (13.2)	1.3" (33)	3/8"
QA1L08S1LD	3.5 – 11.5 (0.4 – 1.3)	9.3 – 33.4 (1.05 – 3.77)	15.7 – 47.2 (1.77 – 5.33)	850	2.1 (1.0)	11.9" (302.3)	0.52" (13.2)	1.3" (33)	1/4"
QA1L05S4SD	3.5 – 11.5 (0.4 – 1.3)	9.3 – 36.0 (1.05 – 4.07)	–	500	1.9 (0.9)	11.8" (300)	0.38" (9.5)	1.1" (28)	1/4"
QA1L05S4LD	3.5 – 11.5 (0.4 – 1.3)	9.3 – 33.4 (1.05 – 3.77)	15.7 – 56.4 (1.77 – 6.37)	500	2.1 (0.9)	11.9" (302.3)	0.52" (13.2)	1.3" (33)	1/4"
QA1L05S6LD	3.5 – 11.5 (0.4 – 1.3)	9.3 – 33.4 (1.05 – 3.77)	15.7 – 56.4 (1.77 – 6.37)	500	2.1 (0.9)	11.9" (302.3)	0.52" (13.2)	1.3" (33)	3/8"
QA1L05S6XLD	11.7 – 38.2 (1.32 – 4.32)	31.0 – 88.3 (3.5 – 9.98)	–	500	2.3 (1.04)	13.0" (330)	0.52" (13.2)	1.3" (33)	3/8"
QA1L05S9LD	3.5 – 11.5 (0.4 – 1.3)	9.3 – 33.4 (1.05 – 3.77)	15.7 – 56.4 (1.77 – 6.37)	500	2.1 (1.0)	11.9" (302.3)	0.52" (13.2)	1.3" (33)	1/4"
QA1L05S1LD	3.5 – 11.5 (0.4 – 1.3)	9.3 – 33.4 (1.05 – 3.77)	15.7 – 56.4 (1.77 – 6.37)	500	2.1 (1.0)	11.9" (302.3)	0.52" (13.2)	1.3" (33)	1/4"
QA1L05S1XLD	11.7 – 38.2 (1.32 – 4.32)	31.0 – 88.3 (3.5 – 9.98)	–	500	2.3 (1.04)	13.0" (330)	0.52" (13.2)	1.3" (33)	1/4"
QA1L02S4LD	3.5 – 11.5 (0.4 – 1.3)	9.3 – 33.4 (1.05 – 3.77)	15.7 – 56.4 (1.77 – 6.37)	250	2.1 (1.0)	11.9" (302.3)	0.52" (13.2)	1.3" (33)	1/4"
QA1L02S1LD	3.5 – 11.5 (0.4 – 1.3)	9.3 – 33.4 (1.05 – 3.77)	15.7 – 56.4 (1.77 – 6.37)	250	2.1 (1.0)	11.9" (302.3)	0.52" (13.2)	1.3" (33)	1/4"
QA1L02S6XLD	11.7 – 38.2 (1.32 – 4.32)	31.0 – 101.5 (3.50 – 11.5)	–	250	2.3 (1.04)	13.0" (330)	0.52" (13.2)	1.3" (33)	3/8"
QA1L02S1XLD	11.7 – 38.2 (1.32 – 4.32)	31.0 – 101.5 (3.50 – 11.5)	–	250	2.3 (1.04)	13.0" (330)	0.52" (13.2)	1.3" (33)	1/4"

### CUSHION CLUTCH CLUTCH TYPE

Model	in-lbs (Nm)	in-lbs (Nm)	in-lbs (Nm)	rpm	lbs (kg)	in (mm)	in (mm)	in (mm)	in
<b>CC LEVER START</b>									
QA1L18C4LD	3.5 – 11.5 (0.4 – 1.3)	9.3 – 26.1 (1.05 – 2.95)	–	1,750	2.0 (0.9)	11.9" (302.3)	0.52" (13.2)	1.3" (33)	1/4"
QA1L18C1LD	3.5 – 11.5 (0.4 – 1.3)	9.3 – 26.1 (1.05 – 2.95)	–	1,750	2.0 (0.9)	11.9" (302.3)	0.52" (13.2)	1.3" (33)	1/4"
QA1L12C1LD	3.5 – 11.5 (0.4 – 1.3)	9.3 – 32.7 (1.1 – 3.64)	–	1,270	2.1 (1.0)	11.9" (302.3)	0.52" (13.2)	1.3" (33)	1/4"
QA1L12C6LD	3.5 – 11.5 (0.4 – 1.3)	9.3 – 32.2 (1.1 – 3.64)	–	1,270	2.1 (1.0)	11.9" (302.3)	0.52" (13.2)	1.3" (33)	3/8"
QA1L08C4LD	3.5 – 11.5 (0.4 – 1.3)	9.3 – 33.4 (1.05 – 3.77)	15.7 – 47.2 (1.77 – 5.33)	850	2.0 (0.9)	11.9" (302.3)	0.52" (13.2)	1.3" (33)	1/4"
QA1L08C1LD	3.5 – 11.5 (0.4 – 1.3)	9.3 – 33.4 (1.05 – 3.77)	15.7 – 47.2 (1.77 – 5.33)	850	2.1 (1.0)	11.9" (302.3)	0.52" (13.2)	1.3" (33)	1/4"
QA1L08C9LD	3.5 – 11.5 (0.4 – 1.3)	9.3 – 33.4 (1.05 – 3.77)	15.7 – 47.2 (1.77 – 5.33)	850	2.1 (1.0)	11.9" (302.3)	0.52" (13.2)	1.3" (33)	1/4"
QA1L05C1LD	3.5 – 11.5 (0.4 – 1.3)	9.3 – 33.4 (1.05 – 3.77)	15.7 – 56.4 (1.77 – 6.37)	500	2.1 (1.0)	11.9" (302.3)	0.5" (12.7)	1.3" (33)	1/4"
QA1L05C4LD	3.5 – 11.5 (0.4 – 1.3)	9.3 – 33.4 (1.05 – 3.77)	15.7 – 56.4 (1.77 – 6.37)	500	2.1 (1.0)	11.9" (302.3)	0.5" (12.7)	1.3" (33)	1/4"
QA1L05C6LD	3.5 – 11.5 (0.4 – 1.3)	9.3 – 33.4 (1.05 – 3.77)	15.7 – 56.4 (1.77 – 6.37)	500	2.1 (1.0)	11.9" (302.3)	0.5" (12.7)	1.3" (33)	3/8"

### STALL TYPE

Model	in-lbs (Nm)	rpm	lbs (kg)	in (mm)	in (mm)	in (mm)	in
<b>CC LEVER START</b>							
QA1L12D4LD	35.4 (4.0)	1,270	1.5 (0.7)	8.9" (226)	0.52" (13.2)	1.3" (33)	1/4"
QA1L12D6LD	35.4 (4.0)	1,270	1.5 (0.7)	8.9" (226)	0.52" (13.2)	1.3" (33)	3/8"
QA1L08D4LD	60.2 (6.8)	850	1.5 (0.7)	8.9" (226)	0.52" (13.2)	1.3" (33)	1/4"
QA1L08D6LD	60.2 (6.8)	850	1.5 (0.7)	8.9" (226)	0.52" (13.2)	1.3" (33)	3/8"
QA1L08D1LD	60.2 (6.8)	850	1.5 (0.7)	8.9" (226)	0.52" (13.2)	1.3" (33)	1/4"
QA1L05D4LD	102.3 (11.6)	500	1.5 (0.7)	8.9" (226)	0.52" (13.2)	1.3" (33)	1/4"
QA1L05D6LD	102.3 (11.6)	500	1.5 (0.7)	8.9" (226			

## Q2 SERIES DRILLS

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

### FEATURES

- Stall torque: 9.7 – 86.4 in-lbs (1.1 – 9.8 Nm)
- Speeds: 500 – 5100 rpm
- Compact and lightweight, this tool delivers more power in a smaller package to get the job done in less time
- Variable speed control allows slow starting and high speed for fast drilling
- Ergonomic design reduces operator fatigue
- Excellent power-to-weight ratio gets the job done with less fatigue



QP151D

### Service and Accessories

#### Manuals:

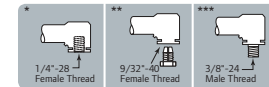
- 16572745
- 16572034
- 16572679

#### Accessories:

Horizontal hanger: 3RA-365  
Chuck: R0H-99

#### Kits:

Tune-up kit: Q2-PDRILL-TK1



Series	Power	Noise	Thread	Chuck Size
Q2	0.25 hp	75 dBA	1/4" NPT	1/4" (6 mm)

### PISTOL

Model	in-lbs (Nm)	rpm	lbs (kg)	in (mm)	in (mm)	in (mm)	cfm (L/min)
<b>TRIGGER START</b>							
QP511LD	9.7 (1.1)	5,100	1.4 (0.7)	6.7" (171)	1/4" (6)	0.6" (15)	16 (450)
QP381D	13.3 (1.5)	3,800	1.5 (0.7)	7.2" (184)	1/4" (6)	0.6" (15)	16 (450)
QP301LD	15.9 (1.8)	3,000	1.4 (0.7)	6.7" (171)	1/4" (6)	0.6" (15)	16 (450)
QP302LD	15.9 (1.8)	3,000	1.7 (0.8)	6.7" (171)	3/8" (10)	0.7" (18)	16 (450)
QP201D	24.8 (2.8)	2,000	1.5 (0.7)	7.2" (184)	1/4" (6)	0.6" (15)	16 (450)
QP202D	24.8 (2.8)	2,000	1.8 (0.8)	7.2" (184)	3/8" (10)	0.7" (18)	16 (450)
QP151D	30.1 (3.4)	1,500	1.5 (0.7)	7.2" (184)	1/4" (6)	0.6" (15)	16 (450)
QP152D	30.1 (3.4)	1,500	1.8 (0.8)	7.2" (184)	3/8" (10)	0.7" (18)	16 (450)
QP091D	51.3 (5.8)	900	1.5 (0.7)	7.2" (184)	1/4" (6)	0.6" (15)	16 (450)
QP051D	86.4 (9.8)	500	1.5 (0.7)	7.2" (184)	1/4" (6)	0.6" (15)	16 (450)
QP052D	86.4 (9.8)	500	1.8 (0.8)	7.2" (184)	3/8" (10)	0.7" (18)	16 (450)

### INLINE

Model	in-lbs (Nm)	rpm	lbs (kg)	in (mm)	in (mm)	in (mm)	cfm (L/min)
<b>LEVER START</b>							
QS511D	10.6 (1.2)	5,100	1.4 (0.6)	8.1" (205)	1/4" (6)	0.6" (15)	16 (450)
QS301D	16.8 (1.9)	3,000	1.4 (0.6)	8.1" (205)	1/4" (6)	0.6" (15)	16 (450)
QS151D	33.6 (3.8)	1,500	1.4 (0.6)	8.1" (205)	1/4" (6)	0.6" (15)	16 (450)

### ANGLE

Model	in-lbs (Nm)	rpm	lbs (kg)	in (mm)	in (mm)	in (mm)	in (mm)	cfm (L/min)
<b>LEVER START (90° CHUCK)</b>								
QA2719D	19 (2.2)	2,700	2.07 (0.94)	9.35" (238)	1/4" (6)	3.0" (76)	0.54" (13.6)	16 (450)
QA2119D	24 (2.8)	2,100	2.07 (0.94)	9.35" (238)	1/4" (6)	3.0" (76)	0.54" (13.6)	16 (450)
QA1219D	43 (4.9)	1,270	2.07 (0.94)	9.35" (238)	1/4" (6)	3.0" (76)	0.54" (13.6)	16 (450)
<b>LEVER START (90° SMALL ANGLE HEAD)</b>								
QA3559D	16 (1.8)	3,500	1.4 (0.6)	8.7" (221)	1/4"-28"	1.1" (27)	0.4" (10)	16 (450)
QA2739D	20 (2.3)	2,700	1.4 (0.6)	8.7" (221)	3/16"***	1.1" (27)	0.4" (10)	16 (450)
QA2759D	20 (2.3)	2,700	1.4 (0.6)	8.7" (221)	1/4"-28"	1.1" (27)	0.4" (10)	16 (450)
QA1739D	32 (3.6)	1,750	1.4 (0.6)	8.7" (221)	3/16"***	1.1" (27)	0.4" (10)	16 (450)
QA1239D	39 (4.5)	1,270	1.4 (0.6)	8.7" (221)	3/16"***	1.1" (27)	0.4" (10)	16 (450)
QA0859D	67 (7.6)	850	1.4 (0.6)	8.7" (221)	1/4"-28"	1.1" (27)	0.4" (10)	16 (450)
QA0539D	110 (12.5)	500	1.4 (0.6)	8.7" (221)	3/16"***	1.1" (27)	0.4" (10)	16 (450)
QA0579D	110 (12.5)	500	1.4 (0.6)	8.7" (221)	3/8"-24****	1.1" (27)	0.4" (10)	16 (450)
QA0559D	110 (12.5)	500	1.4 (0.6)	8.7" (221)	1/4"-28"	1.1" (27)	0.4" (10)	16 (450)
<b>LEVER START (45° SMALL ANGLE HEAD)</b>								
QA2754D	17 (1.9)	2,700	1.47 (0.67)	10.55" (268)	1/4"-28"	1.3" (34)	0.3" (8.3)	16 (450)
QA0854D	57 (6.4)	850	1.47 (0.67)	10.55" (268)	1/4"-28"	1.3" (34)	0.3" (8.3)	16 (450)

## 1 SERIES

Time-tested design provides repeatable results, day in and day out, at an economical price.

### FEATURES

- Torque range: 2.7 – 45 in-lbs (0.3 – 5.1 Nm)
- Speeds: 250 – 2,000 rpm
- Compact and lightweight
- Coated grip for operator comfort
- Recommended for applications where precise torque control is required



1RTMS1

### Service and Accessories

#### Manuals:

- 16574550
- 80167265

#### Accessories:

Torque arm: QTA010  
Spring balancer, see page 13  
Suspension bail: 3RA-365  
Exhaust hose: 3RL-284

#### Kits:

Tune-up kit: 3RA-TK2

Series	Noise	Thread	Chuck Size
1	73 dBA	1/8" NPT	1/4" (6 mm)

### ADJUSTABLE SHUT OFF CLUTCH TYPE

#### PISTOL

Model	in-lbs (Nm)	in-lbs (Nm)	in-lbs (Nm)	rpm	lbs (kg)	in (mm)	in (mm)	in	cfm (L/min)
<b>TRIGGER + PUSH-TO-START</b>									
1RTMS1	4.4 – 15.9 (0.5 – 1.8)	6.2 – 20.4 (0.7 – 2.3)	–	1,650	1.5 (0.7)	8.5" (217)	0.7" (17)	1/4" (6)	13 (368)
1RTNS1	2.7 – 15.9 (0.3 – 1.8)	4.4 – 23.0 (0.5 – 2.6)	9.7 – 30.1 (1.1 – 3.4)	1,000	1.5 (0.7)	8.5" (217)	0.7" (17)	1/4" (6)	13 (368)
1RTQS1	2.7 – 15.9 (0.3 – 1.8)	4.4 – 23.0 (0.5 – 2.6)	9.7 – 45.1 (1.1 – 5.1)	500	1.5 (0.7)	8.7" (222)	0.7" (17)	1/4" (6)	13 (368)

#### INLINE

Model	in-lbs (Nm)	in-lbs (Nm)	in-lbs (Nm)	rpm	lbs (kg)	in (mm)	in (mm)	in	cfm (L/min)
<b>LEVER START</b>									
1RLNS1	2.7 – 15.9 (0.3 – 1.8)	4.4 – 23 (0.5 – 2.6)	9.7 – 30.1 (1.1 – 3.4)	1,000	1.1 (0.5)	9.2" (234)	0.6" (14)	1/4" (6)	13 (368)
<b>PUSH-TO-START</b>									
1RPLS1	4.4 – 13.3 (0.5 – 1.5)	–	–	2,800	1.1 (0.5)	8.4" (213)	0.6" (14)	1/4" (6)	13 (368)
1RPMS1	4.4 – 15.9 (0.5 – 1.8)	6.2 – 20.4 (0.7 – 2.3)	–	1,650	1.1 (0.5)	8.7" (222)	0.6" (14)	1/4" (6)	13 (368)
1RPNS1	2.7 – 15.9 (0.3 – 1.8)	4.4 – 23 (0.5 – 2.6)	9.7 – 30.1 (1.1 – 3.4)	1,000	1.1 (0.5)	8.7" (222)	0.6" (14)	1/4" (6)	13 (368)
1RPQS1	2.7 – 15.9 (0.3 – 1.8)	4.4 – 23 (0.5 – 2.6)	8.9 – 45.1 (1.0 – 5.1)	500	1.1 (0.5)	8.7" (222)	0.7" (17)	1/4" (6)	13 (368)

### CUSHION CLUTCH CLUTCH TYPE

#### PISTOL

Model	in-lbs (Nm)	in-lbs (Nm)	in-lbs (Nm)	rpm	lbs (kg)	in (mm)	in (mm)	in	cfm (L/min)
<b>TRIGGER + PUSH-TO-START</b>									
1RAMC1	2.5 – 15.9 (0.3 – 1.8)	6.2 – 20.4 (0.7 – 2.3)	–	1,650	1.5 (0.7)	8.5" (217)	0.7" (17)	1/4" (6)	13 (368)
1RANC1	1.5 – 15.9 (0.2 – 1.8)	4.4 – 23.0 (0.5 – 2.6)	9.7 – 30.1 (1.1 – 3.4)	1,000	1.5 (0.7)	8.5" (217)	0.7" (17)	1/4" (6)	13 (368)

#### INLINE

Model	in-lbs (Nm)	in-lbs (Nm)	in-lbs (Nm)	rpm	lbs (kg)	in (mm)	in (mm)	in	cfm (L/min)
<b>LEVER START</b>									
1RLMC1	4.4 – 15.9 (0.5 – 1.8)	6.2 – 20.4 (0.7 – 2.3)	–	1,650	1.1 (0.5)	8.7" (222)	0.6" (14)	1/4" (6)	13 (368)
1RLNC1	2.7 – 15.9 (0.3 – 1.8)	4.4 – 23.0 (0.5 – 2.6)	9.7 – 30.1 (1.1 – 3.4)	1,000	1.1 (0.5)	8.7" (222)	0.6" (14)	1/4" (6)	13 (368)
<b>PUSH-TO-START</b>									
1RPMC1	4.4 – 15.9 (0.5 – 1.8)	6.2 – 20.4 (0.7 – 2.3)	–	1,650	1.1 (0.5)	8.7" (222)	0.6" (14)	1/4" (6)	13 (368)
1RPNC1	2.7 – 15.9 (0.3 – 1.8)	4.4 – 23.0 (0.5 – 2.6)	9.7 – 30.1 (1.1 – 3.4)	1,000	1.1 (0.5)	8.7" (222)	0.6" (14)	1/4" (6)	13 (368)

# 41 SERIES

Time-tested design known for its durability and performance.

## FEATURES

- Torque range: 15 – 120 in-lbs (1.7 – 13.6 Nm)
- Speeds: 800 – 2,500 rpm
- Skinsulate housing provides comfortable grip surface
- One-handed reverse lever
- Recommended for applications where precise torque control is required



41PA10TSQ4

## Service and Accessories

### Manuals:

- 16574592
- 80167356
- 16575284

### Accessories:

- Torque arm: QTA010
- Horizontal hanger: 48934
- Dead handle: 48931
- Spring balancer, see page 13
- Top air inlet kit (push-to-start): 48995

### Kits:

- Mechanism kit: 48804-1

Series			
41	78 dBa	1/4" NPT	5/16" (8 mm)

## ADJUSTABLE SHUT OFF CLUTCH TYPE

### PISTOL

Model	in-lbs (Nm)	in-lbs (Nm)	in-lbs (Nm)	rpm	lbs (kg)	in (mm)	in (mm)	in	cfm (L/min)
<b>TRIGGER START</b>									
41PA24TSQ4	15 – 40 (1.7 – 4.5)	–	–	2,400	2.9 (1.3)	9.4" (239)	0.9" (22)	1/4"	28 (790)
41PA16TSQ4	15 – 40 (1.7 – 4.5)	25 – 60 (2.8 – 6.8)	–	1,600	3.1 (1.4)	9.8" (249)	0.9" (22)	1/4"	28 (790)
41PA10TSQ4	15 – 40 (1.7 – 4.5)	25 – 60 (2.8 – 6.8)	35 – 80 (4.0 – 9.0)	1,000	3.1 (1.4)	9.8" (249)	0.9" (22)	1/4"	28 (790)
41PA8TSQ4	15 – 40 (1.7 – 4.5)	25 – 60 (2.8 – 6.8)	35 – 100 (4.0 – 11.3)	800	3.1 (1.4)	9.8" (249)	0.9" (22)	1/4"	28 (790)

Model	in-lbs (Nm)	in-lbs (Nm)	in-lbs (Nm)	rpm	lbs (kg)	in (mm)	in (mm)	in	cfm (L/min)
<b>PUSH-TO-START</b>									
41PA24PSQ4	15 – 40 (1.7 – 4.5)	–	–	2,400	2.9 (1.3)	9.4" (239)	0.9" (22)	1/4"	28 (790)
41PA16PSQ4	15 – 40 (1.7 – 4.5)	25 – 60 (2.8 – 6.8)	–	1,600	3.1 (1.4)	9.8" (249)	0.9" (22)	1/4"	28 (790)
41PA10PSQ4	15 – 40 (1.7 – 4.5)	25 – 60 (2.8 – 6.8)	35 – 80 (4.0 – 9.0)	1,000	3.1 (1.4)	9.8" (249)	0.9" (22)	1/4"	28 (790)
41PA8PSQ4	15 – 40 (1.7 – 4.5)	25 – 60 (2.8 – 6.8)	35 – 100 (4.0 – 11.3)	800	3.1 (1.4)	9.8" (249)	0.9" (22)	1/4"	28 (790)

Model	in-lbs (Nm)	in-lbs (Nm)	in-lbs (Nm)	rpm	lbs (kg)	in (mm)	in (mm)	in	cfm (L/min)
<b>TRIGGER + PUSH-TO-START</b>									
41PA16TPQ4	15 – 40 (1.7 – 4.5)	25 – 60 (2.8 – 6.8)	–	1,600	3.0 (1.36)	9.8" (249)	0.9" (22)	1/4"	28 (790)
41PA10TPQ4	15 – 40 (1.7 – 4.5)	25 – 60 (2.8 – 6.8)	35 – 80 (4.0 – 9.0)	1,000	3.1 (1.4)	9.8" (249)	0.9" (22)	1/4"	28 (790)
41PA8TPQ4	15 – 40 (1.7 – 4.5)	25 – 60 (2.8 – 6.8)	35 – 100 (4.0 – 11.3)	800	3.1 (1.4)	9.8" (249)	0.9" (22)	1/4"	28 (790)

### INLINE

Model	in-lbs (Nm)	in-lbs (Nm)	in-lbs (Nm)	rpm	lbs (kg)	in (mm)	in (mm)	in	cfm (L/min)
<b>PUSH-TO-START</b>									
41SA17PSQ4	15 – 39.8 (1.7 – 4.5)	24.8 – 60.2 (2.8 – 6.8)	–	1,700	2.7 (1.2)	10.9" (277)	0.8" (20)	1/4"	30 (850)
41SA10PSQ4	15 – 39.8 (1.7 – 4.5)	24.8 – 60.2 (2.8 – 6.8)	35.4 – 79.7 (4.0 – 9.0)	1,000	2.7 (1.2)	10.9" (277)	0.8" (20)	1/4"	30 (850)
41SA8PSQ4	15 – 39.8 (1.7 – 4.5)	24.8 – 60.2 (2.8 – 6.8)	35.4 – 100 (4.0 – 11.3)	800	2.7 (1.2)	10.9" (277)	0.8" (20)	1/4"	30 (850)

Model	in-lbs (Nm)	in-lbs (Nm)	in-lbs (Nm)	rpm	lbs (kg)	in (mm)	in (mm)	in	cfm (L/min)
<b>LEVER + PUSH-TO-START</b>									
41SA25LPQ4	15 – 40 (1.7 – 4.5)	–	–	2,500	2.5 (1.1)	10.4" (264)	0.8" (20)	1/4"	30 (850)
41SA17LPQ4	15 – 39.8 (1.7 – 4.5)	24.8 – 60.2 (2.8 – 6.8)	–	1,700	2.7 (1.2)	10.9" (277)	0.8" (20)	1/4"	30 (850)
41SA10LPQ4	15 – 39.8 (1.7 – 4.5)	24.8 – 60.2 (2.8 – 6.8)	35.4 – 79.7 (4.0 – 9.0)	1,000	2.7 (1.2)	10.9" (277)	0.8" (20)	1/4"	28 (790)
41SA8LPQ4	15 – 39.8 (1.7 – 4.5)	24.8 – 60.2 (2.8 – 6.8)	35.4 – 100 (4.0 – 11.3)	800	2.7 (1.2)	10.9" (277)	0.8" (20)	1/4"	28 (790)

## CUSHION CLUTCH CLUTCH TYPE

### PISTOL

Model	in-lbs (Nm)	in-lbs (Nm)	in-lbs (Nm)	rpm	lbs (kg)	in (mm)	in (mm)	in	cfm (L/min)
<b>TRIGGER START</b>									
41PC25TSQ4	10 – 39.8 (1.1 – 4.5)	–	–	2,500	2.8 (1.3)	8.9" (226)	0.8" (20)	1/4"	20 (565)
41PC17TSQ4	10 – 39.8 (1.1 – 4.5)	15 – 53.1 (1.7 – 6.0)	–	1,700	3.1 (1.4)	9.4" (239)	0.8" (20)	1/4"	20 (565)
41PC10TSQ4	10 – 39.8 (1.1 – 4.5)	15 – 79.7 (1.7 – 9.0)	–	1,000	3.1 (1.4)	9.4" (239)	0.8" (20)	1/4"	20 (565)
41PC8TSQ4	10 – 39.8 (1.1 – 4.5)	15 – 79.7 (1.7 – 9.0)	45.1 – 100 (5.1 – 11.3)	800	3.1 (1.4)	9.4" (239)	0.8" (20)	1/4"	20 (565)

(continued next page)

# 41 SERIES CONTINUED...

## INLINE

Model	in-lbs (Nm)	in-lbs (Nm)	in-lbs (Nm)	rpm	lbs (kg)	in (mm)	in (mm)	in	cfm (L/min)
<b>LEVER START</b>									
41SC25LTQ4	9.7 – 39.8 (1.1 – 4.5)	–	–	2,500	2.9 (1.3)	10.4" (264)	0.8" (20)	1/4"	20 (565)
41SC17LTQ4	9.7 – 39.8 (1.1 – 4.5)	15 – 60.2 (1.7 – 6.8)	–	1,700	3.1 (1.4)	10.9" (277)	0.8" (20)	1/4"	20 (565)
41SC10LTQ4	9.7 – 39.8 (1.1 – 4.5)	15 – 79.7 (1.7 – 9.0)	–	1,000	3.1 (1.4)	10.9" (277)	0.8" (20)	1/4"	20 (565)
41SC8LTQ4	9.7 – 39.8 (1.1 – 4.5)	15 – 79.7 (1.7 – 9.0)	45 – 100 (5.1 – 11.3)	800	3.1 (1.4)	10.9" (277)	0.8" (20)	1/4"	20 (565)
<b>PUSH-TO-START</b>									
41SC25PSQ4	9.7 – 39.8 (1.1 – 4.5)	–	–	2,500	2.8 (1.3)	10.4" (264)	0.8" (20)	1/4"	20 (565)
41SC17PSQ4	9.7 – 39.8 (1.1 – 4.5)	15 – 60.2 (1.7 – 6.8)	–	1,700	3.1 (1.4)	10.9" (277)	0.8" (20)	1/4"	20 (565)
41SC10PSQ4	9.7 – 39.8 (1.1 – 4.5)	15 – 79.7 (1.7 – 9.0)	–	1,000	3.1 (1.4)	10.9" (277)	0.8" (20)	1/4"	20 (565)
41SC8PSQ4	9.7 – 39.8 (1.1 – 4.5)	15 – 79.7 (1.7 – 9.0)	45 – 100 (5.1 – 11.3)	800	3.1 (1.4)	10.9" (277)	0.8" (20)	1/4"	20 (565)

## POSITIVE JAW TYPE

### PISTOL

Model	in-lbs (Nm)	rpm	lbs (kg)	in (mm)	in (mm)	in	cfm (L/min)
<b>TRIGGER START</b>							
41PP25TSQ4	45.1 (5.1)	2,500	2.2 (1.0)	7.2" (183)	0.8" (20)	1/4"	20 (565)
41PP17TSQ4	64.6 (7.3)	1,700	2.4 (1.1)	7.6" (193)	0.8" (20)	1/4"	20 (565)
41PP10TSQ4	90.3 (10.2)	1,000	2.4 (1.1)	7.6" (193)	0.8" (20)	1/4"	20 (565)
41PP8TSQ4	120.4 (13.6)	800	2.4 (1.1)	7.6" (193)	0.8" (20)	1/4"	20 (565)

### INLINE

Model	in-lbs (Nm)	rpm	lbs (kg)	in (mm)	in (mm)	in	cfm (L/min)
<b>LEVER START</b>							
41SP25LTQ4	45 (5.1)	2,500	2.2 (1.0)	8.6" (218)	0.8" (20)	1/4"	20 (565)
41SP17LTQ4	65 (7.3)	1,700	2.4 (1.1)	9.1" (231)	0.8" (20)	1/4"	20 (565)
41SP10LTQ4	90 (10.2)	1,000	2.4 (1.1)	9.1" (231)	0.8" (20)	1/4"	20 (565)
41SP8LTQ4	120 (13.6)	800	2.4 (1.1)	9.1" (231)	0.8" (20)	1/4"	20 (565)

## STALL TYPE

### PISTOL

Model	in-lbs (Nm)	rpm	lbs (kg)	in (mm)	in (mm)	in	cfm (L/min)
<b>TRIGGER START</b>							
41PD25TSQ4	45.1 (5.1)	2,500	2.1 (1.0)	6.9" (176)	0.8" (20)	1/4"	20 (565)
41PD17TSQ4	64.6 (7.3)	1,700	2.2 (1.0)	7.4" (188)	0.8" (20)	1/4"	20 (565)
41PD10TSQ4	90.3 (10.2)	1,000	2.2 (1.0)	7.4" (188)	0.8" (20)	1/4"	20 (565)
41PD8TSQ4	120.4 (13.6)	800	2.2 (1.0)	7.4" (188)	0.8" (20)	1/4"	20 (565)

### INLINE

Model	in-lbs (Nm)	rpm	lbs (kg)	in (mm)	in (mm)	in	cfm (L/min)
<b>LEVER START</b>							
41SD25LTQ4	45 (5.1)	2,500	2.1 (1.0)	8.1" (206)	0.8" (20)	1/4"	20 (565)
41SD17LTQ4	65 (7.3)	1,700	2.3 (1.1)	8.9" (226)	0.8" (20)	1/4"	20 (565)
41SD10LTQ4	90 (10.2)	1,000	2.3 (1.1)	8.9" (226)	0.8" (20)	1/4"	20 (565)
41SD8LTQ4	120 (13.6)	800	2.3 (1.1)	8.9" (226)	0.8" (20)	1/4"	20 (565)

## Service and Accessories

### Manuals:

- 16574592
- 80167356
- 16575284

### Accessories:

- Torque arm: QTA010
- Horizontal hanger: 48934
- Dead handle: 48931
- Spring balancer, see page 13
- Top air inlet kit (push-to-start): 48995

### Kits:

- Mechanism kit: 48804-1

Series			
41	78 dBa	1/4" NPT	5/16" (8 mm)

## ACCESSORIES

Take advantage of our extensive line of accessories to optimize your assembly operations and maximize your productivity. From Torque Reaction Arms and Torque Tubes to Spindle Accessories and Spring Balancers, we have options to complement your work cells and improve your ergonomics and efficiency. Whether a single, handheld application or a sophisticated set of custom engineered systems, we have the tools and accessories to meet your requirements and the global network of service and solutions providers capable of meeting your needs for application studies, line audits, design, project management, installation, and service.



## SPRING BALANCERS

Cable

### BLD SERIES

#### FEATURES

- Self-lubricating bushings
- Adjustable capacity and stroke limiting device
- Auxiliary safety suspension

Manuals:



BLD1

Model	SWL	ft (m)	lbs (kg)
	lbs (kg)		
<b>BLD SERIES</b>			
BLD1	0.9 – 2.2 (0.4 – 1.0)	5.2 (1.6)	1.3 (0.6)
BLD2	2.2 – 4.4 (1.0 – 2.0)	5.2 (1.6)	1.3 (0.6)
BLD3	4.4 – 6.6 (2.0 – 3.0)	5.2 (1.6)	1.5 (0.7)

### BMD SERIES

#### FEATURES

- Safety device prevents dropping of load due to spring breakage (except on BMDS-2)
- Anti-friction cable guide
- Adjustable stroke-limiting device

Manuals:



BMDS-2

Model	SWL	ft (m)	lbs (kg)
	lbs (kg)		
<b>BMD SERIES</b>			
BMDS-2	2.2 – 5.5 (1.0 – 2.5)	6.5 (2.0)	4.4 (2.0)
BMDS-4	4.4 – 8.8 (2.0 – 4.0)	6.5 (2.0)	4.4 (2.0)
BMDL-4	4.4 – 8.8 (2.0 – 4.0)	8.2 (2.5)	6.4 (2.9)
BMDS-6	8.8 – 13.2 (4.0 – 6.0)	6.5 (2.0)	5.1 (2.3)
BMDL-6	8.8 – 13.2 (4.0 – 6.0)	8.2 (2.5)	7.1 (3.2)
BMDS-8	13.2 – 17.6 (6.0 – 8.0)	6.5 (2.0)	5.5 (2.5)

## WORKSTATIONS & TORQUE TUBES

### LIGHT-DUTY WORKSTATIONS

These steel-constructed, lightweight workstations offer the operator flexibility while supporting the tool weight. Add a torque absorber rod to help relieve minor torque reaction.



Part Number	Description
IRBS3-N30	Air tool station with torque absorber
IRBS3-E30	Electric tool station with torque absorber

Note: Workstations do not include tool, spring balancer, air hose, or FRL. All must be purchased separately.

### TORQUE TUBES

Model	Description	SWL	lbs (kg)	in (mm)
		ft-lbs (Nm)		
54044227	IRZ-TT-100	74 (100)	60 (27)	20" (508)
54041819	IRZ-TT-250	184 (250)	60 (27)	24" (610)
54044417	IRZ-TT-500*	368 (500)	400 (182)	36" (914)

\* Requires carriage mount. See form # MHD55226 for more details.

## DRILL ADAPTERS

Part Number	Thread Size	Drive
<b>SQUARE DRIVE ADAPTER</b>		
R0H-P212-3/8	3/8"-24 female thread	3/8"
<b>QUICK CHANGE ADAPTERS</b>		
R0H-A925-4	3/8" - 24	1/4"
Part Number	Drive Spindle	Female Thread
<b>SPINDLE ADAPTERS</b>		
30629	1/2"-20 (male)	3/8"-24
30384-5	3/8" square	3/8"-24
30384-9	1/2" square	3/8"-24
40768	1/2" square	1/2"-20



## GENERAL CHUCKS

Part Number	Chuck Size	Thread Size	Key
<b>DRILL CHUCKS</b>			
7802-99	3/8"	3/8" - 24	N/A
30016	3/8"	1/2" - 20	N/A
7803-99	1/2"	3/8" - 24	R1T-J253
R1N-99A	1/2"	1/2" - 20	N/
36953	1/4"	No. 1 taper	N/A
33906	1/4"	1/2" - 20	N/A
<b>KEYLESS CHUCKS</b>			
728-99-KC5	3/8"	3/8" - 24	N/A
728-99-KC8	1/2"	3/8" - 24	N/A
<b>STANDARD DUTY CHUCKS</b>			
7801-99-6	3/8"	3/8" - 24	728N-253
<b>MEDIUM DUTY CHUCKS</b>			
<b>R0H-99</b>	<b>1/4"</b>	<b>3/8" - 24</b>	<b>R1H-J253</b>
<b>HEAVY DUTY CHUCKS</b>			
6A-99	3/8"	3/8" - 24	R0J-J253
R00A-99	1/4"	3/8" - 24	R00A-J253
R0K-99	5/64" - 1/2"	3/8" - 24	R1T-J253



## POWER QUICK CHANGE CHUCKS

Square Drive Female	Hex Chuck Size Female	Part Number
1/2"	7/16"	4U-A925-7

## ERGO GRIPS / BIO GRIPS / COMFORT GRIPS

Part Number	Used With:
<b>ERGO GRIPS</b>	
SEG3A-IR	Series 1
SEG4-IR	Series 41 (1700 rpm or less)
SEG4H-IR	Series 41 (over 1700 rpm)
<b>REPLACEMENT FOAM GRIP KITS</b>	
SEG3A-CGK	For SEG3 models
SEG4-CGK	For SEG4 models
<b>BIO BRACE</b>	
SBB4-AR41	Series 41 (1700 rpm or less)
SBB4-VS	VersaTec



## LUBRICANTS

Part Number	Description
<b>CLASS 1 #10 OILS FOR AIR TOOLS</b>	
10Z4	4 oz oil
10P	1 pt oil
10G	1 gal oil
<b>GREASE</b>	
23-1 LB	#23 - 1 lb - drill gearing
28 1 LB	#28 - 1 lb - SD gearing and clutches
28 8 LB	#28 - 8 lb - SD gearing and clutches
66 1 LB	#66 - 1 lb - slow-speed angle heads
67-4T	#67 - 4 oz tube - high-speed angle heads
GTH-1	grease gun for 4 oz tube
67-1 LB	#67 - 1 lb - high-speed angle heads
67 8 LB	#67 - 8 lb - high-speed angle heads
68-1LB	#68 - 1 lb - Coupling splines

## WORK GLOVES

Part Number	Description
IR-GL-1	Standard black, large
IR-GXL-1	Standard black, extra large
TGSL-GL-1	Thunder gun series, large
TNT-GL-1	Titanium series, large

## 360° SWIVEL AIR INLETS

Part Number	Inlet	CFM	Type
ASA-1/4	0-25	1/4"	Adjustable
ASC-1/4	0-33	1/4"	Non-marring
AS-3/8	0-45	3/8"	Standard
AS-1/2	0-65	1/2"	Standard

## ANGLE HEAD BOOTS

25 mm	28 mm	35 mm	43 mm	48 mm	56 mm
131996	131995	131997	GEA40-172	GEA40-173	GEA240-173

Based on tool angle head diameter

## POLYURETANE COIL HOSES

Part Number	Description
P14-10	1/4" x 10' polyurethane coil hose, (1) 1/4" rigid, (1) 1/4" swivel fitting
P14-20	1/4" x 20' polyurethane coil hose, (1) 1/4" rigid, (1) 1/4" swivel fitting
P14-30	1/4" x 30' polyurethane coil hose, (1) 1/4" rigid, (1) 1/4" swivel fitting
P38-10	3/8" x 10' polyurethane coil hose, (1) 3/8" rigid, (1) 3/8" swivel fitting
P38-20	3/8" x 20' polyurethane coil hose, (1) 3/8" rigid, (1) 3/8" swivel fitting
P38-30	3/8" x 30' polyurethane coil hose, (1) 3/8" rigid, (1) 3/8" swivel fitting
P12-10R	1/2" x 10' polyurethane coil hose, (2) 1/2" reusable swivel fittings
P12-20R	1/2" x 20' polyurethane coil hose, (2) 1/2" reusable swivel fittings
P12-30R	1/2" x 30' polyurethane coil hose, (2) 1/2" reusable swivel fittings





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