



REAL TOOLS FOR REAL WORK.

Because every assembly is critical

There's much more to an assembly application than merely putting wrench to bolt. It's an intricate matter of linking tool users and fasteners to deliver an uncompromised combination of ergonomics, speed, and accuracy.

The solution: Ingersoll Rand Pulse Systems.

At Ingersoll Rand, we have extensive experience with threaded fastening processes. For over 100 years, we've worked with many of the world's leading manufacturers in various industries, and we understand the interface of the tool and operator. We know how to leverage the power of ergonomicaly designed equipment to maximize productivit and inspire progress.

Durability

High-speed, reactionless fastening with a power-to-weight ratios similar to impact tools

Comfort

• Enhanced ergonomics for operator providing comfortable grip, low vibration and noise, and reactionless one handed operation

Reliability

- · Consistent torque with fully customizeable operator feedback, process control, and data output options
- Proven performance in high and low torque models

Speed

 Non-Shut Off: 5,500 - 7,000 RPM · Shut Off: 5,000 - 10,000 RPM





Standard Pulse Tools

Q Series

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

The Q-Series is the latest generation of pulse tools engineered with the end-user in mind making them the tools of choice for operators looking for the best combination of speed, ergonomics, and accuracy.



Shut off Pulse Tools

Features

• Torque range: 3 - 155 ft lbs (4.5 - 210 NM)

· Speeds: 4,000 - 7,000 rpm

• Easy torque adjustment for quick setup

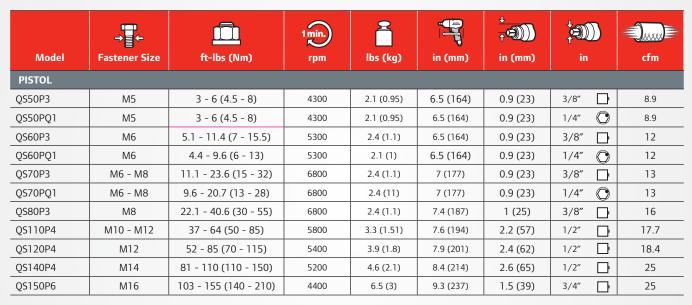
· Auto-shut off feature stops airflow to tool when cycle is complete

· High-speed, compact, lightweight design

• Ergonomic design provides comfortable grip, low vibration and noise and reactionless one-handed operation

Auto-shut off limits air consumption and tool wear

· Deters early throttle release; recommended when improved error-proofing is desired



Model			(W) Ø
QS50 - QS80	70 - 78 dba	1/4" NPT	3/8" (10 mm)
QS110 - QS150	80 - 86 dba	1/4" NPT	3/8" (10 mm)



Non-Shut off Pulse Tools

Features

• Torque range: 6 - 258 ft-lbs (7.5 - 350 NM)

· Speeds: 4,000 - 9,300 rpm

• Easy torque adjustment for quick setup

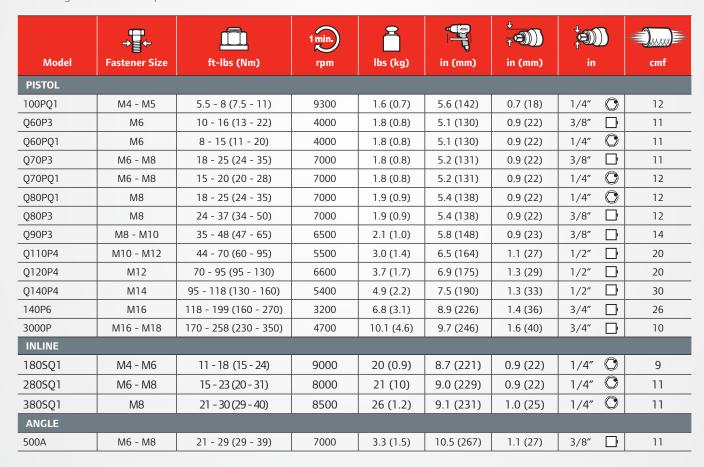
· Extremely lightweight, compact, and fast

World-class power-to-weight ratio

• Ergonomic design provides comfortable grip, low vibration and noise, and reactionless one-handed operation

• Environmentally enhanced lube-free, dual-chamber air motor, and self-lubricating blades and cylinder reduce oil mist

 Non-shut-off tools are recommended for the majority of applications where speed and ergonomics are important



Model			Ø
Q60 - Q80	71 - 75 dBa	1/4" NPT	3/8" (10 mm)
Q790P - Q140	78 - 83 dBa	1/4" NPT	3/8" (10 mm)
100 - 3000	76 – 83 dBa	1/4" NPT	3/8" (10 mm)



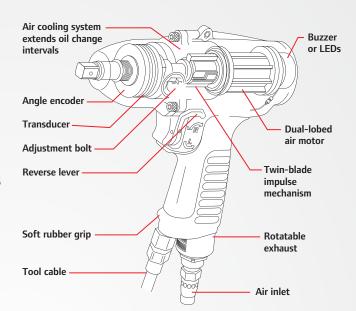
Pulse Tool Systems

Transducerized Pulse Tools

Ingersoll Rand combines the power, speed and ergonomics of the pulse tool with the sophistication of a torque transducer and microprocessor to create a more powerful, convenient and accurate fastening system. The closed-loop system offers all the advantages of a pulse tool, while providing advanced torque control and data output typically found in a DC fastening system. The new angle encoded series includes the ability to monitor the fastening angle during the tightening process.

- Strain gauge on output shaft and close to the socket for more accurate measurement of torque.
- Non-contacting pickup reduces signal noise, improving torque repeatability.
- Angle monitoring available

- · Torque readout.
- · End-of-run data.
- Operator visual and audible notification.
- · I/O signals for line control.
- Simple programming for fast and easy set-up.





The new QXP Series pulse tools offer a new level of speed, convenience, accessibility, and comfort to the assembly process.

	→	<u> </u>	1 min.	8		† †		
Model	. ■	ft-lbs (Nm)	rpm	lbs (kg)	in (mm)	in (mm)	in	cmf
PISTOL								
QXP60P6	M6	7.4 – 14.5 (10 – 19.5)	6,000	2.8 (1.26)	7.0 (179)	0.8 (21)	3/8″	9.5
QXP60Q4	M6	6.3 –11.8 (8 – 16)	6,000	2.8 (1.26)	7.0 (179)	0.8 (21)	1/4″	9.5
QXP70P6	M6 – M8	13 – 24 (18 – 33)	7,000	2.8 (1.26)	7.0 (179)	0.8 (21)	3/8″	11.3
QXP70Q4	M6 – M8	11 – 20 (15 – 27)	7,000	2.8 (1.26)	7.0 (179)	0.8 (21)	1/4″	11.3
QXP80P6	M8	17 – 33 (24 – 46)	7,000	3 (1.3)	7.3 (186)	0.8 (21)	3/8″	11.3
QXP90P6	M8 – M10	26 – 44 (35 – 60)	6,500	3.3 (1.5)	7.7 (195)	0.9 (23)	3/8″	14.5
QXP110P8	M10 – M12	35 – 70 (48 – 95)	5,500	4.1 (1.86)	8.2 (209)	1.0 (25.6)	1/2″	18.7
QXP120P8	M12	48 – 92 (65 – 125)	5,900	5.4 (2.46)	8.8 (223)	1.1 (29.0)	1/2″ 🔲	21.2
QXP140P8	M14	55 – 114 (75 – 155)	5,200	6.3 (2.86)	9.3 (235)	1.1 (29.0)	1/2″	27.7
QXP150P8	M16	81 – 162 (110 – 220)	4,200	7.5 (3.41)	9.6 (241)	1.3 (32.5)	1/2″	27.9

Model			(W) Ø
QXP60 - QXP150	75 - 87 dba	1/4" NPT	3/8" (10 mm)

Pulse Systems

We offer a robust portfolio of pulse tools that deliver consistent performance and accuracy. Select the best solution for your application.

Pulse Systems					
FEATURES	Standard I	Transducerized			
	Non shut-off	Shut-off	Pulse Tools		
Fastening Strategies			✓		
Angle Monitoring			✓		
Torque Traceability			✓		
Closed-Loop Torque Control			✓		
Visible OK / Not OK Signaling			✓		
Process Control			✓		
Batch & Cycle Counting			✓		
Operator Error Proofing		✓	✓		
Lube Free Air Motors	✓	✓	✓		
Easy Torque Adjustment	✓	✓	✓		
High Speed, Compact, Lightweight	✓	✓	✓		
Reactionless One-Handed Operation	✓	✓	✓		

Accessories

Impact Sockets - 6 pt Hex

	Туре	No. of Models	Output Range in (mm)
IMPACT	SOCKETS - INDIVIDU	JALS	
3/8"	Standard	20	1/4" – 1" (6 – 22)
	Deep	18	5/16" – 1" (7 – 22)
	Universal	36	5/16" – 1" (8 – 22)
1/2"	Standard	32	5/16" – 2-1/4" (8 – 36)
	Deep	18	5/16" – 2" (8 – 36)
	Universal	36	5/16" – 1" (8 – 22)
3/4"	Standard	33	1/2" - 2 -1/2" (17 - 50)
	Deep	33	1/2" - 2 -1/2" (17 - 50)
	Universal	29	11/16″ – 1- 7/8″ (17 – 46)

We offer many additional sizes in sockets. Visit www.ingersollrandprocducts.com for a complete offering.

Spring Balancers

No. of Models	↑ sw. ☐ lb (kg)	Ŏ ‡ ft (m)	lb (kg)
(SEE LIT	ERATURE LISTED BELOW	FOR DETAILS)	
3	0.875 - 5.5 (0.39 - 2.5)	4.25 (1.3)	2.6 - 2.9 (1.2 - 1.3)
4	0.9 - 6.6 (0.4 - 3.0)	5.2 (1.6)	1.3 – 1.5 (0.6 – 0.7)
13	2.2 – 22 (1 – 10)	6.5 – 8.2 (2 – 2.5)	4.4 – 8.8 (2 – 4)
	Models (SEE LIT 3 4	No. of Models Ib (kg) (SEE LITERATURE LISTED BELOW 3 0.875 - 5.5 (0.39 - 2.5) 4 0.9 - 6.6 (0.4 - 3.0)	No. of Models lb (kg) ft (m) (SEE LITERATURE LISTED BELOW FOR DETAILS) 3 0.875 - 5.5 (0.39 - 2.5) 4.25 (1.3) 4 0.9 - 6.6 (0.4 - 3.0) 5.2 (1.6)

^{*}A hose reel balancer with 1/4" NPT input/output and 18.4 cfm flow capacity.



Impact Sockets





Ingersoll Rand (NYSE:IR) advances the quality of life by creating and sustaining safe, comfortable and efficient environments. Our people and our family of brands—including Club Car®, Ingersoll Rand®, Thermo King® and Trane®—work together to enhance the quality and comfort of air in homes and buildings; transport and protect food and perishables; secure homes and commercial properties; and increase industrial productivity and efficiency. Ingersoll Rand products range from complete compressed air systems, tools and material and fluid handling systems. The diverse and innovative products, services and solutions enhance our customers' energy efficiency, productivity and operations. Ingersoll Rand is a \$12 billion global business committed to a world of sustainable progress and enduring results. For more information, visit ingersollrand.com or ingersollrandproducts.com.









www.ingersollrandproducts.com

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