

Ingersoll Rand®

Industrial Bolting Solutions



IR Ingersoll Rand®

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The new **IR Ingersoll Rand** corporate and brand identity, introduced in 2000, is now being incorporated into product identification and packaging, as well as all communications. While most product photography in this catalog still reflects the previous symbol and logotype signature, you will soon see our new look on everything IR.



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Introduction



Impacttools

They're the hardest-working tools of all. Nothing cuts as much time, or packs more labor-saving power than the Impacttool.

Imagine the manual process of a hammer striking against a hand wrench to tighten or loosen nuts and bolts. Then consider the sheer size and scope of those bolts — up to 4 inches in diameter — joining parts and components literally weighing tons, and exerting even greater forces. No small task, but one mastered by tools that create incredible energy out of compressed air or electricity, converting motor torque into a series of powerful rotary blows.

For almost seventy years, Ingersoll-Rand has pioneered the development and advancement of Impacttools, and today leads the industry with the most complete product selection available. Throughout this catalog, you will find two different types of IR Impacttools in three different performance rankings, designed to match the full spectrum of applications.

Two Different Types

Conventional Impacttools, in most cases, provide a torque output setting, but rely largely on operator judgment to determine when a fastener is sufficiently tightened. These are the most popular Impacttools, and include air as well as electric models.

Torque Control Impacttools (air only) provide automatic shutoff upon reaching a preset torque level. They are designed for applications requiring accurate fastener tightening, and incorporate built-in or detachable torsion bars. Based on their diameter and degree of adjustment, the torsion bar senses a predetermined torque level, and mechanically signals an internal shut-off device to prevent over-torquing.

Three Different Rankings

Three different rankings help to define the IR line of Impacttools:

- **Super Duty Tools** are intended for high volume production or heavy maintenance and construction, where ultimate performance and durability are required. These tools incorporate a number of unique added features, as well as the finest materials and bearings, tightest tolerances, and most powerful impact mechanisms.
- **Heavy Duty Tools** are well-suited to medium volume production or general maintenance and construction tasks, and offer a good balance between performance and economy.
- **Standard Duty Tools** are intended for less frequent use, involving lighter materials.

Choices for Every Application

Still more choices exist, with a variety of Impacttool configurations designed to suit the particular job at hand — for example ...small and medium-sized tools with straight or pistol-grip handles...and larger models with inside trigger, outside trigger, or lever throttle handles. Drive sizes range from $\frac{3}{8}$ -inch to $3\frac{1}{2}$ -inch square drive, and also include spline drives for maximum power transmission in demanding applications. In addition, you can specify certain tools with quick-change anvils for use with extended socket devices, special screwdriver bits, wood augers, and more.

Seventy Years of Leadership

Throughout its history, Ingersoll-Rand has earned a global reputation for creating tools that solve problems, build productivity, and put more power in the hands of the worker. The development of IR Impacttools is a particularly strong case in point.

Air Power

Invented by Robert Pott in the early 1930s, the first Impacttool was electrically powered, and replaced a manual, labor-intensive process for applications in the agricultural industry. The tools quickly became popular in heavy industrial applications, proving their value in railroad maintenance, bridge construction, refineries, and many other roles. Ingersoll-Rand consulted with Pott and suggested the use of compressed air as a power source, with a new air motor package that the company had designed. Ingersoll-Rand later acquired the original Impacttool patent

rights from Pott, and began testing its own designs. In 1934, IR introduced its first air Impacttool models, in $\frac{3}{4}$ -inch drive sizes.

Impacttool Evolution

Several years later, IR replaced the original impact mechanism with its own ball and cam design, utilizing two steel balls trapped in opposing helical ball races on the hammer and cam. Shortly thereafter, IR replaced the gear-driven forward/reverse mechanism by simply changing the flow of air to the motor. This power package forms the basis for many of today's Impacttools.

Throughout the 1950s and '60s, IR continued to expand its Impacttool offerings as new and different applications arose. New advancements included the first torque control tools, designed to stop at predetermined settings, as well as numerous refinements to impact power mechanisms.

Ingersoll-Rand revolutionized Impacttool design in the 1970s with the development of the twin-hammer mechanism, extracting more power with fewer moving parts than ever before. Two hammers strike instantaneous, balanced blows to the anvil lobes, generating increased torque with minimal vibration. And today, the advancements continue. The IR2904, 2131, and 2925 Series Models all deliver more power, comfort, and control than anything else in their respective classes. All reflect the IR philosophy of **High Performance Ergonomics** — user oriented design that provides real-world productivity benefits... based on a systematic, objective measure of ergonomic factors for validation and value.

In general, Ingersoll-Rand Impacttool mechanisms can be identified by the first one or two digits of the model number:



- Twin-hammer: "2" (except 2902, 2903)
- Jumbo hammer: "17" (plus 2902, 2903)
- Ball and cam: "5" (plus electric Impacttools)

Make the Right Choice

On the following pages, you will find a detailed review of the complete Ingersoll-Rand Impactool line, including performance specifications, special features, standard equipment, and relevant accessories. We have also provided an Impactool Selection Guide on pages 16-17. This will assist in the selection process by defining the following considerations:

- Diameter of fastener being used
- Grade of fastener being used
- Torque control vs. conventional
- Required torque (if applicable)



The selection guide will indicate recommendations based on types of fasteners and tools, using examples from the IR product line carrying the Super Duty rating. However, please refer to the tool specification pages for information on full line availability. In addition, check the Quick Reference on page 23.

IR Impactools. The hardest-working tools of all, backed by the best support in the industry.



High Performance Ergonomics

Three Types of Impactool Mechanisms



Twin-Hammer

A simplified, yet highly effective design that holds each of the reversible hammers in full engagement or disengagement with centrifugal force. The twin-hammer mechanism delivers more power per pound, and is less sensitive to air pressure fluctuations than any other design.

- Smooth, balanced blow
- High power-to-weight ratio
- Suitable for hard or soft-draw applications



Jumbo Hammer

Similar in concept to the twin-hammer mechanism, but employing a single hammer.

- Simplified design
- Reversible hammers
- Direct drive

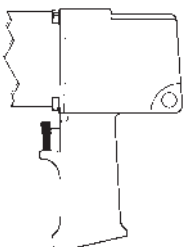
Ball and Cam

Precision mechanism converts motor torque into powerful rotary impacts. A planetary gear drive delivers smooth, constant speed from the motor. The ball and cam mechanism is ideal for soft draw applications, and is utilized in larger Impacttools, as well as in all torque control and electric Impacttools.

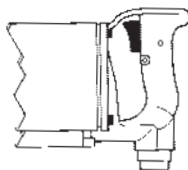
- Air or electric
- Does not stall
- A time-tested design



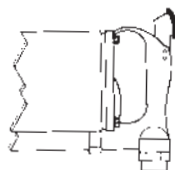
Configurations



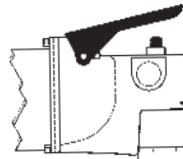
Pistol



Inside Grip



Outside Grip



Straight



Quick Change



Square Drive



Spline Drive

3/8"-3/4" Class Impacttools

Ingersoll-Rand's wide range of Impacttools offers you the flexibility you need to fit even your most unique applications properly. From applications involving lighter materials and less frequent use to assembly or even maintenance, repair, and operation (MRO) applications, we've got the right tool for the job. Our product selection covers the full range of drive sizes and configurations. In this section, choose from 3/8-inch drive models such as the compact 2904 to IR's 3/4-inch class Series 2925.



3/8" Class Impacttools



● 2902P1



■ 1702P4



▲ 2904P1



★ 1702SB1

Hanger not included

Features

- Twin-hammer impact mechanism on Series 2904
- Jumbo Hammer impact mechanism on Series 2902 and 1702
- Durable epoxy-coated motor housing and handle
- Plated steel hammer case
- Pressure-feed impact mechanism lubrication

Standard Equipment

Series 2902 and 2903

- 1/4" NPT inlet
- Steel hammer case
- Integral muffler
- Built-in power regulator
- Pin-type socket retainer

Series 2904

- 1/4" NPT inlet
- Steel hammer case
- Composite housing
- Power management system

Series 1702

- 1/4" NPT inlet
- Steel hammer case
- B1 abd B3 model: Inside throttle and dead handle
- Pin-type socket retainer
- Built-in power regulator (P)

Equipment at Extra Price

Series 1702

- Vertical hanger No. 1901-365 (B)
- Exhaust muffler kit No. 212-K23 (P)
- Horizontal hanger No. 1901-366

Series 2902

- Vertical hanger No. 1901-365 (B)
- Horizontal hanger No. 1901-366 (P&B)

Series 2903

- Vertical hanger No. 2908-365
- Horizontal hanger No. 1901-366

Model	Drive Description	Handle	Free Speed rpm	Impacts per minute	Maximum Torque		Recomm. Torque Range		Weight, less socket		Length, less socket		Side to Center Distance		Size Hose Recomm. CFM		
					ft.-lb.	Nm	ft.-lb.	Nm	lb.	kg	in.	mm	in.	mm	in.	mm	
Super Duty Impacttools																	
● 2902P1	3/8" square	Pistol	10,000	1500	140	190	20-120	27-163	2½	1.25	5½	140	1⅜	35	5/16	8	15
2903P2	3/8" square	Pistol	6000	1200	205	278	30-170	41-230	4⅓/16	2.18	5⅝	143	1⅜	35	⅜	10	21
▲ 2904P1	3/8" square	Pistol	14,500	1500	230	313	25-200	34-270	2.65	1.20	5¾	146	1⅝	29	⅜	10	18
	Reverse Bias	260			354												
2904P4	1/4" hex QC	Pistol	14,500	1500	260	354	25-200	34-270	2.65	1.20	5¾	146	1⅝	29	⅜	10	18
	Reverse Bias																
Heavy Duty Impacttools																	
★1702SB1	3/8" square	Straight	10,000	1500	105	142	13-85	18-115	2½	1.12	5⅞	149	1	25	5/16	8	13
1702P1	3/8" square	Pistol	10,000	1500	125	170	20-100	27-136	2¾	1.25	5½	140	1⅜	35	5/16	8	15
■ 1702P4	1/4" hex QC	Pistol	10,000	1500	125	170	20-100	27-136	2¾	1.25	5½	140	1⅜	35	5/16	8	15

"QC" designates a Quick Change chuck.

Note: All of the above square drive Impacttools furnished with pin-type retainer.

Performance figures are at 90 psi (620kPa) air pressure.

1/2" Class Impacttools

Features

- Jumbo hammer impact mechanism on Series 2903
- Rugged twin-hammer impact mechanism on 2906
- Durable epoxy-coated motor housing and handle
- Plated steel hammer case
- Pressure-feed impact mechanism lubrication

Standard Equipment

Series 2903

- 1/4" NPT inlet
- Steel hammer case
- Built-in lubricator
- Integral muffler
- Built-in power regulator

Series 2131

- 1/4" NPT inlet
- Steel hammer case
- Composite housing
- Built-in power regulator

Series 2906

- 1/4" NPT inlet
- Steel hammer case
- Built-in lubricator
- Integral muffler
- Two-piece motor housing
- Built-in power regulator



▲ 2903P1



★ 2906P1

Series 2707

- 1/4" NPT inlet
- Steel hammer case
- Built-in power regulator

Models 2705A1

- 1/4" NPT inlet
- Steel hammer case
- Built-in power regulator

Equipment at Extra Price

Series 2903, 2908

- Vertical hanger No. 2908-365

Series 2705

- Vertical hanger No. 904-366

Series 2131

- Vertical hanger No. 2131-366



● 2131P

Model	Drive Description	Handle	Free Speed rpm	Impacts per minute	Maximum Torque		Recomm. Torque Range		Weight, less socket		Length, less socket		Side to Center Distance		Size Hose Recomm. CFM	
					ft.-lb.	Nm	ft.-lb.	Nm	lb.	kg	in.	mm	in.	mm	in.	mm

Super Duty Impacttools

★ 2906P1	1/2" square	Pistol	5000	1200	500	678	40-350	54.2-475	6	2.72	67/8	175	11 ¹¹ / ₃₂	34	3/8	10	23
▲ 2903P1	1/2" square	Pistol	6000	1200	220	298	30-185	41-250	4 ¹ / ₁₆	2.18	5 ⁵ / ₈	143	1 ³ / ₈	35	3/8	10	21

Heavy Duty Impacttools

2707A1	1/2" square	Pistol	7750	1300	450	610	40-275	54-373	6	2.72	6 ¹ / ₂	165	1 ³ / ₈	35	5/16	8	26
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Standard Duty Impacttools

● 2131P	1/2" square Reverse Bias	Pistol	9500	1200	450 600	610 816	50-400	68-542	4 ¹ / ₂	2.04	6 ⁷ / ₈	174	1 ³ / ₈	35	3/8	10	27
2131P7	7/16" hex QC Reverse Bias	Pistol	9500	1200	450 600	610 816	50-400	68-542	4 ¹ / ₂	2.04	6 ⁷ / ₈	174	1 ³ / ₈	35	3/8	10	27
2705A1	1/2" square	Pistol	8500	1200	400	542	40-200	54-271	5 ⁵ / ₈	2.55	6 ³ / ₄	171	11 ¹¹ / ₃₂	34	3/8	10	23
2904P2	1/2" square Reverse Bias	Pistol	14,500	1500	230 260	313 354	25-200	34-270	2.65	1.20	5 ³ / ₄	146	1 ¹ / ₈	29	3/8	10	18

All of the above square drive Impacttools furnished with pin-type retainer. Performance figures are at 90 psi (620 kPa) air pressure.

5/8" and 3/4" Class Impacttools

Introducing the IR2925B.

1700 ft.- lbs. of max torque ÷ 14 lbs. of tool

With an ergonomically designed handle and grip, and a trim, 14-lb. weight, the IR2925B 1" Impacttool will ease the burden of exhausting steel erection, bridge maintenance, power generation and petrochemical applications.



Standard dead handle allows a comfortable and balanced grip, with even weight distribution. Adjustable 360° positioning.

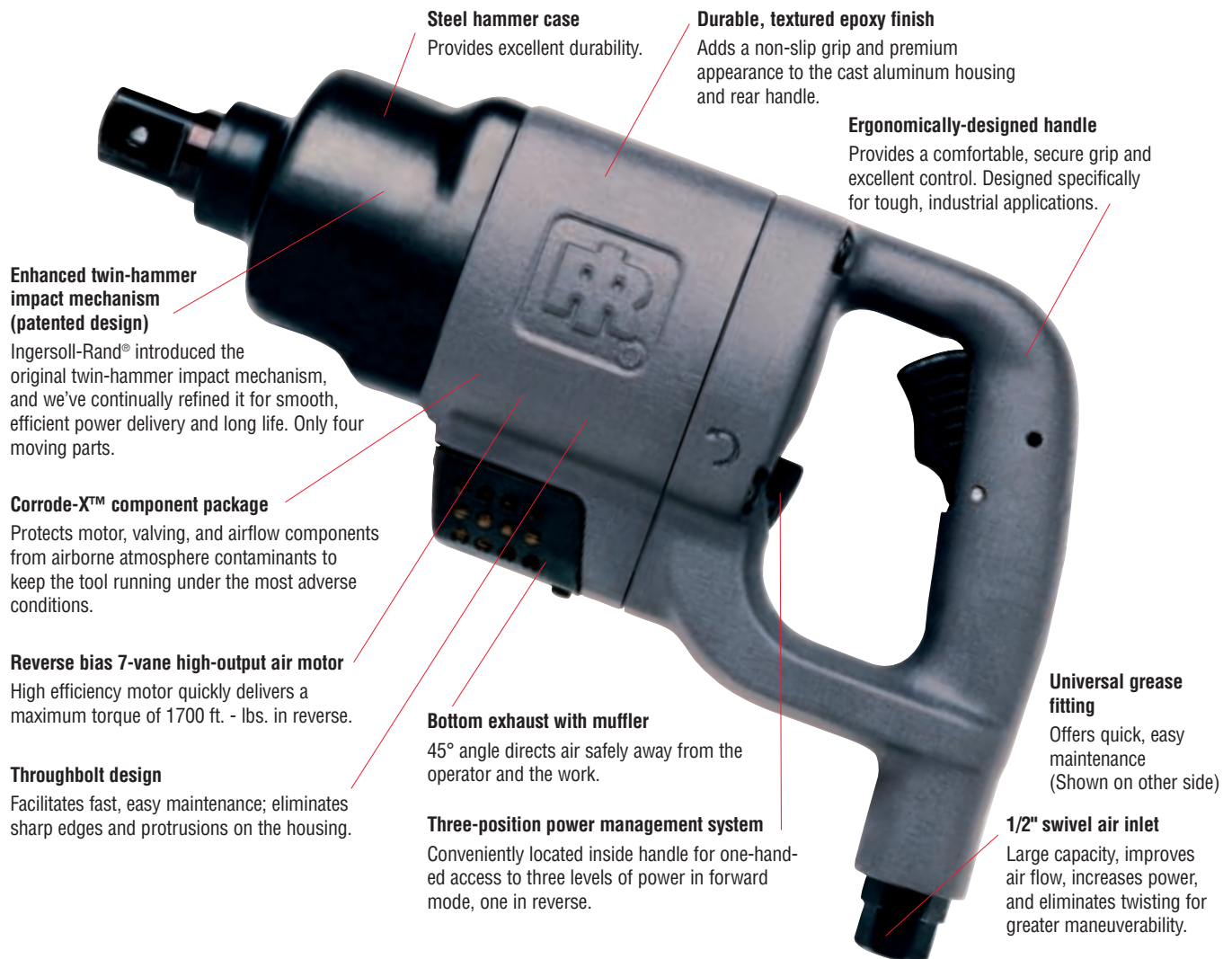
Although it weighs approximately 30% less than the lightest competitor, the IR2925B generates an incredible 1700 ft.- lbs. of torque in reverse, thanks to a compact, efficient air motor that achieves peak torque output quicker than other tools.

Other features include the Corrode-X corrosion resistant motor, valving and airflow components, Ingersoll-Rand's enhanced geometry twin-hammer mechanism, an easy-access power management system, and a rear air inlet that keeps the hose in line and out of the way.

The IR2925B – More power – More speed – More comfort – Less weight. Forward bias and outside trigger models are also available. And, the IR2925P Series offers similar advantages in a pistol-grip configuration.



The three-position power management system is conveniently located inside the handle for one-handed access to three levels of power in forward, and one in reverse.



IR2925P

A new generation of Impacttools

The unique features of the 2925 Series extend to pistol grip configurations in the 2925P Models. They offer an unmatched combination of performance and control, with the durability to withstand the toughest operating conditions.

External features include:

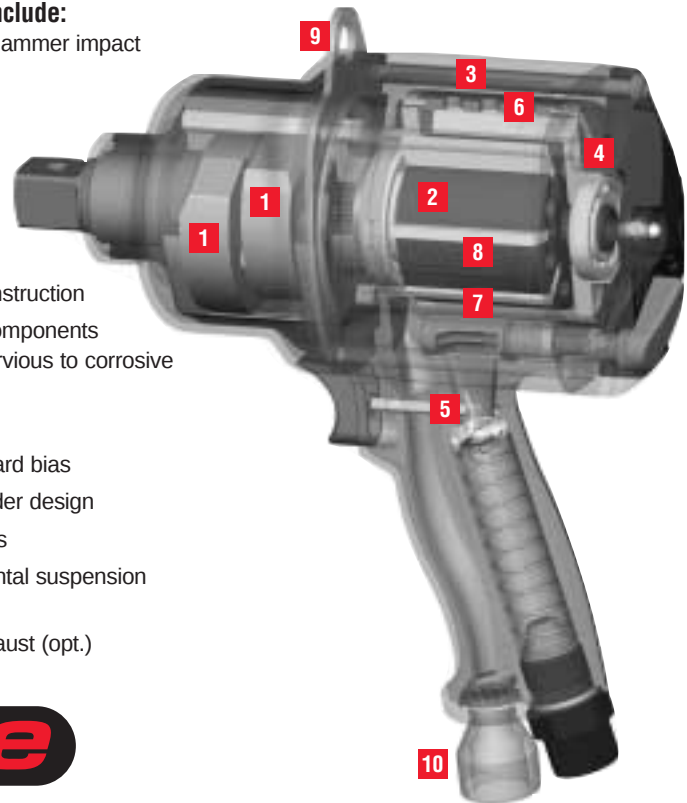
- Ergonomic handle design
 - Smooth contoured profile with integral grip ledge
 - Three-piece housing
 - Handle exhaust
 - 360° swivel air inlet
 - Contoured trigger
 - Minimum side-to-center distance
 - Enhanced pressure-feed lubrication system
 - Low profile reverse lever
 - Three-position power regulation and forward/reverse control
- Position #1 = Full
#2 = Approx. 88%
#3 = Approx. 77%

Internal features include:

- 1 Enhanced twin-hammer impact mechanism
- 2 Supermotor™
- 3 Through-bolt construction
- 4 Corrode-X™ (Components completely impervious to corrosive contaminants)
- 5 Tilt throttle
- 6 Reverse or forward bias
- 7 Concentric cylinder design
- 8 Composite vanes
- 9 Balanced horizontal suspension bail (opt.)
- 10 Piped-away exhaust (opt.)



High Performance Ergonomics



IR2161

The IR2161 models

The IR2161 heavy duty models are ideal for applications a little less demanding than those for the IR2925.

Features that distinguish the IR2161 from the IR2925 models include:

- Enhanced single-hammer mechanism



- Maximum torque of 1250 ft.-lbs.
- Smooth, high-gloss cast aluminum finish
- 6-Vane high-output air motor
- Smooth, contoured exterior profile

External features include:

- Ergonomic handle design
- Smooth contoured profile
- Three-piece housing
- Handle exhaust
- 360° swivel air inlet

- Contoured trigger
 - Minimum side-to-center distance
 - Enhanced pressure-feed lubrication system
 - Three-position power regulation and forward/reverse control
- Position #1 = Full
#2 = Approx. 88%
#3 = Approx. 77%
- Ribbed lever surface

Internal features include:

- An enhancement to the original single-hammer mechanism provides increased durability and performance (patent applied for)
- 6-Vane high-output air motor
- Through-bolt construction
- 360° swivel air inlet
- Tilt throttle
- Concentric cylinder design
- Balanced horizontal suspension bail (opt.)
- Piped-away exhaust (opt.)



5/8" and 3/4" Class Impacttools



◆ 2925B2

Features

Models 2161P, 2171P

- Conventional cast aluminum finish
- Full contoured housing shape
- Ergonomically-designed handle
- 360° swivel inlet
- Handle exhaust
- Enhanced single-hammer impact mechanism
- 6-Vane high-output air motor

Series 2908

- Durable epoxy-coated motor housing and handle
- Plated steel hammer case
- Twin-hammer impact mechanism
- Pressure-feed impact mechanism lubrication

Series 2920B

- Muffled exhaust reduces operator fatigue
- Slip fit motor for easy maintenance
- Tilt throttle on pistol models for maximum control
- Two-piece motor housing on pistol models
- Durable epoxy-coated motor housing and handle
- Plated steel hammer case
- Twin-hammer impact mechanism
- Pressure-feed impact mechanism lubrication

Series 2925

- Integral grip ledge
- Three-piece housing
- Handle exhaust
- Minimum side to center distance
- Three position power regulation
- Forward/reverse control
- Enhanced twin-hammer impact mechanism
- 7-Vane high-output air motor
- Corrode-X™

Series 2925B

- 1/2" swivel air inlet
- Enhanced twin-hammer impact mechanism

- Corrode-X™ component package
- Reverse bias 7-vane high-output air motor
- Throughbolt design
- 45° bottom exhaust with muffler
- Three-position power management system
- Universal grease fitting
- Steel hammer case
- Durable, textured epoxy finish
- Ergonomically-designed handle

Standard Equipment

Models 2161P, 2171P

- 3/8" NPT inlet
- Steel hammer case
- Integral muffler
- Built-in power regulator
- Through-hole socket retainer

Series 2908

- 3/8" NPT Inlet
- Pin-type socket retainer
- Steel hammer case
- Integral muffler
- Built-in lubricator
- Built-in power regulator

Series 2925

- 3/8" NPT Inlet
- Steel hammer case
- Integral muffler
- Built-in power regulator
- Through-hole socket retainer

Series 2920B

- 3/8" NPT inlet
- Steel hammer case
- Integral muffler
- Built-in lubricator
- 90° Angle drive (Model 2920B9 only)
- 2920B3 includes 834-48 straight handle
- 2920B9 includes spade handle T15-41

Series 1720

- 3/8" NPT inlet
- Steel hammer case



■ 2925P1

- B3 model: Inside throttle and dead handle

Equipment at Extra Price

Models 2161P, 2171P

- Piped-away exhaust kit No. 2161-123
- Horizontal suspension bail No. 2161-366
- Boot 2161-P32

Series 2908

- Vertical hanger No. 2908-365

Series 2925

- Piped-away exhaust kit No. 2161-123
- Horizontal suspension bail No. 2161-366
- Number 4 spline anvil No. 2910-A526

Series 2920B

- 2910B-726-6: 6" extended 3/4" anvil
- Horizontal hanger No. 910-366
- 5/8" hex quick change anvil No. 2910B-A926-10

Series 2920B

- Power regulator valve kit No. 2920-K32

Series 1720

- 3/4" drive x 6" (152 mm) hog ring style
- Extended anvil No. 265-A626-6
- Horizontal hanger No. 910-366
- Power regulator Kit No. 2920-K329
- Reverse valve Kit No. 1720-K329
- Dead handle 834-48
- Dead handle bracket 2910B-364

(Please turn page for specifications)

5/8" and 3/4" Class Impacttools

Model	Drive Description	Handle	Free Speed rpm	Impacts per minute	Maximum Torque		Recomm. Torque Range		Weight, less socket		Length, less socket		Side to Center Distance		Size Hose Recomm. CFM	
					ft.-lb.	Nm	ft.-lb.	Nm	lb.	kg	in.	mm	in.	mm	in.	mm
Super Duty Impacttools																
2925P1	3/4" square	Pistol	5200	1050	1450	1972	350-1100	476-1496	11 ⁷ / ₈	5.39	8 ⁷ / ₈	225	1 ³ / ₄	44	1/2	13
2925P3	1" square	Pistol	5200	1050	1450	1972	350-1100	476-1496	11 ⁷ / ₈	5.39	8 ⁷ / ₈	225	1 ³ / ₄	44	1/2	13
2925RBP1	3/4" square Reverse Bias	Pistol	5200	1050	1600 R 1300 F	2176 1768	400-1400 300-950	544-1904 408-1292	11 ⁷ / ₈	5.39	8 ⁷ / ₈	225	1 ³ / ₄	44	1/2	13
2925B2	1" square	Grip I.T.	6500	900	1600	2170	350-1400	475-1904	14	6.35	12 ³ / ₈	314	1 ⁵ / ₈	41	1 1/2	13
2925RB2	1" square Reverse Bias	Grip I.T.	6500	900	1700 1500	2305 2034	F300-1300 R400-1500	407-1763 544-2034	14	6.35	12 ³ / ₈	314	1 ⁵ / ₈	41	1 1/2	13
2925A2	1" square	Grip O.T.	6500	900	1600	2170	350-1400	475-1904	14	6.35	12 ³ / ₈	314	1 ⁵ / ₈	41	1 1/2	13
2925RA2	1" square Reverse Bias	Grip O.T.	6500	900	1700 1500	2305 2034	F300-1300 R400-1500	407-1763 544-1904	14	6.35	12 ³ / ₈	314	1 ⁵ / ₈	41	1 1/2	13
2925RBP3	1" square Reverse Bias	Pistol	5200	1050	1600 R 1300 F	2176 1768	400-1400 300-950	544-1904 408-1292	11 ⁷ / ₈	5.39	8 ⁷ / ₈	225	1 ³ / ₄	44	1/2	13
2920B1	3/4" square	Grip	5000	950	1100	1495	250-800	339-1085	13 ³ / ₁₆	5.98	12 ¹ / ₂	318	1 ²⁹ / ₃₂	49	1/2	13
2920B3	1" square	Grip	5000	950	1100	1495	250-800	339-1085	13 ³ / ₁₆	5.98	12 ¹ / ₂	318	1 ²⁹ / ₃₂	49	1/2	13
◆ 2920B9	3/4" sq. at 90°	Grip	5000	950	550	949	125-400	203-678	23 ¹¹ / ₁₆	10.75	17 ¹ / ₂	445	1 ¹⁵ / ₁₆	†33	1/2	13
2908P2	3/4" square	Pistol	6000	1050	750	1017	100-450	136-610	8 ¹¹ / ₁₆	3.94	7 ¹¹ / ₁₆	195	1 ⁵ / ₈	41	1/2	13
2908P1	5/8" square	Pistol	6000	1050	750	1017	100-450	136-610	8 ¹ / ₂	3.86	7 ¹¹ / ₁₆	195	1 ⁵ / ₈	41	1/2	13
Heavy Duty Impacttools																
2161P	3/4" square	Pistol	5750	1025	1250	1700	250-900	340-1224	11 ¹ / ₄	5.10	8 ¹ / ₂	216	1 ³ / ₄	44	1/2	13
2171P	1" square	Pistol	5750	1025	1250	1700	250-900	340-1224	11 ¹ / ₄	5.10	8 ¹ / ₂	216	1 ³ / ₄	44	1/2	13
1720P1	3/4" square	Pistol	5500	1000	1000	1360	200-600	271-813	11 ⁷ / ₈	5.39	7 ⁵ / ₈	194	1 ²⁹ / ₃₂	48	1/2	13
1720P3	1" square	Pistol	5500	1000	1100	1490	250-750	340-1016	11 ⁷ / ₈	5.39	7 ⁵ / ₈	194	1 ²⁹ / ₃₂	48	1/2	13
1720B1	3/4" square	Grip	5500	1000	1000	1360	200-600	271-813	13 ³ / ₁₆	6.27	11 ³ / ₄	299	1 ²⁹ / ₃₂	48	1/2	13
1720B3	1" square	Grip	5500	1000	1100	1490	250-750	340-1016	13 ³ / ₁₆	6.27	11 ³ / ₄	299	1 ²⁹ / ₃₂	48	1/2	13

Note: IR2925 number 4 spline models are available by converting the standard square drive anvil with number 4 spline anvil part number 2910-A526. The same performance figures apply.

Models 2908P1 and 2908P2 Impacttools furnished with pin-type retainer.

Performance figures are at 90 psi (620 kPa) air pressure.

Angle head gear ratio on model 2920B9 is 2 to 1.

† Side to center distance of angle head. Height of angle head to shoulder of square drive is 3 1/2" (89 mm).

**2920B9 Hammer Case is plated ductile iron.

◆ Approx. 50% torque reduction.

I.T.: Inside Throttle

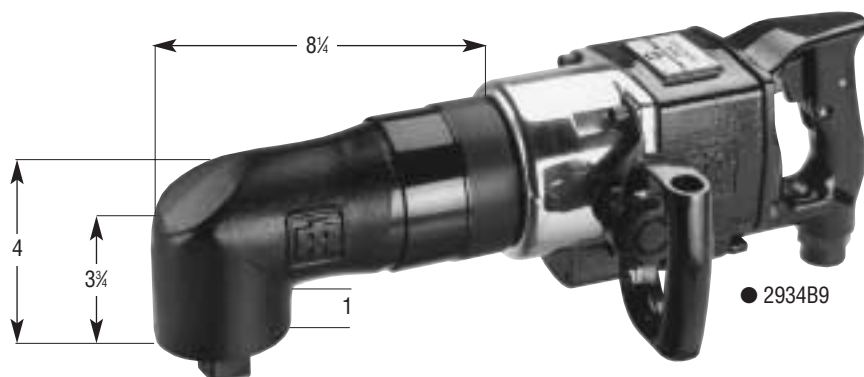
O.T.: Outside Throttle

1"-3½" Class Impacttools



You'll master the toughest challenges with IR's 1-inch to 3½-inch Class Impacttools. Designed for high volume production or heavy maintenance and construction applications, these models incorporate the finest materials and most precise tolerances. IR has combined almost seventy years of Impactool expertise and the finest materials around to produce the best Impactools the industry has to offer.

1" Class Impacttools



Features

- 1" square drive or No. 5 spline models
- Plated ductile iron hammer case and durable epoxy-coated motor housing and handle
- Twin-hammers mean more power per pound
- Pressure-feed impact mechanism lubrication
- Two-piece motor housing

Standard Equipment

Series 2934

- 1/2" NPT inlet
- Plated cast iron hammer case
- Dead straight handle (A & B models only)
- Spade style dead handle (B9 & P2 models only)
- Integral muffler
- Built-in power regulator (P2 model only)
- 90° Angle drive (Model 2934B9 only)

Standard Equipment

Model 1734A1

- 1/2" NPT inlet
- Plated hammer case

Series 1712

- 1/2" NPT inlet
- Ductile iron hammer case
- B2 model: Inside throttle and spade style dead handle

Equipment at Extra Price

Series 1734

- No. 5 spline 280-A514-6
- *6" square anvil: 280-726-6
- Hanger: 2934-366
- Exhaust deflector kit: 2934-K23
- Piped-away exhaust with muffler: 2940-KM184
- Piped-away exhaust without muffler: 2940-K184

Series 2934

- 90° Angle drive is available for all square drive models.
- Order angle attachment No. 2934A90

and hex nose hammer case No. 2934-A827. This hammer case must be used to replace the standard hammer case. Note that these items are furnished as standard equipment on Model 2934B9

- *1" drive x 6" (152 mm) extended anvil No. 2934-314-6
- Horizontal hanger consisting of:
 - One horizontal hanger No. 2934-366
 - Two hanger spacers No. 2934-140
- Piped-away exhaust muffler kit No. 2940-KM184. (A & B models only)

Series 1712

- *1" drive x 6" (152 mm) extended anvil No. 280-726-6
- 2934-366 horizontal hanger

Model	Drive Description	Handle	Free Speed rpm	Impacts per minute	Maximum Torque		Recomm. Torque Range		Weight, less socket		Length, less socket		Side to Center Distance		Size Hose Recomm. CFM		
					ft.-lb.	Nm	ft.-lb.	Nm	lb.	kg	in.	mm	in.	mm	in.	mm	
Super Duty Impacttools																	
2934A2	1" square	Grip O.T.	6600	750	1500	2030	500-1100	678-1490	18½	8.39	11¼	286	2⅜	56	¾	19	47
2934B1**	No. 5 spline	Grip I.T.	6600	750	1500	2030	500-1100	678-1490	18½	8.39	11¼	286	2⅜	56	¾	19	47
2934B2	1" square	Grip I.T.	6600	750	1500	2030	500-1100	678-1490	18½	8.39	11¼	286	2⅜	56	¾	19	47
● 2934B9	1" sq. at 90°	Grip I.T.	5300	780	750	1624	250-500	678-1355	35¾	16.2	18⅝	473	11⅝	141	¾	19	47
▲ 2934P2	1" square	Pistol	5300	825	1500	2030	500-1100	678-1490	20	9.07	8⅝	219	2⅜	56	¾	19	47
Heavy Duty Impacttools																	
1734A1**	No. 5 spline	Grip O.T.	6000	800	1400	1904	450-1000	612-1860	18⅜	8.34	11¼	286	2⅜	56	¾	19	47
1712B2	1" square	Grip I.T.	6000	800	1350	1836	450-1000	612-1860	18¼	8.28	11¼	286	2⅜	56	¾	19	47
1712P2	1" square	Pistol	6000	800	1350	1836	450-1000	612-1860	18¼	8.28	11¼	286	2⅜	56	¾	19	56

*Approx. 15% torque reduction.

Performance figures are at 90 psi (620 kPa) air pressure. Angle head gear ratio on model 2934B9 B is 1 to 1.

**No. 5 spline 1⅝" OD 14 teeth.

† Side to center distance of angle head. Height of angle head to shoulder of square drive is 4⅜" (111 mm).

I.T.: Inside Trigger
O.T.: Outside Trigger



● 2940B1



▲ 2940P2

Features

- Choice of 1" square drive or No. 5 spline
- Plated ductile iron hammer case and durable epoxy-coated motor housing and handle
- Twin-hammers mean more power per pound
- Two-piece motor housing

Standard Equipment Series 2940

- 1/2" NPT inlet
- Plated cast iron hammer case
- Integral muffler
- Built-in lubricator
- Straight dead handle (A & B models only)
- Spade style dead handle (P2 Model only)
- Integral power regulator (P2 Model only)

Equipment at Extra Price Series 2940

- Piped-away exhaust muffler kit No. 2940-KM184 (A & B models only)
- Horizontal hanger consisting of
 - One horizontal hanger No. 2934–366
 - Two hanger spacers No. 2934–140
- *1" drive x 6" (152 mm) extended anvil No. 2940–314–6

Model	Drive Description	Handle	Free Speed rpm	Impacts per minute	Maximum Torque		Recomm. Torque Range		Weight, less socket		Length, less socket		Side to Center Distance		Size Hose Recomm. CFM		
					ft.-lb.	Nm	ft.-lb.	Nm	lb.	kg	in.	mm	in.	mm	in.	mm	
Super Duty Impacttools																	
2940A1**	No. 5 spline	Grip O.T.	5000	850	2000	2710	1000-1600	1360-2170	22	9.98	12¼	311	2⅜	56	¾	19	58
2940A2	1" square	Grip O.T.	5000	850	2000	2710	1000-1600	1360-2170	22	9.98	12¼	311	2⅜	56	¾	19	58
● 2940B1**	No. 5 spline	Grip I.T.	5000	850	2000	2710	1000-1600	1360-2170	22	9.98	12¼	311	2⅜	56	¾	19	58
2940B2	1" square	Grip I.T.	5000	850	2000	2710	1000-1600	1360-2170	22	9.98	12¼	311	2⅜	56	¾	19	58
▲ 2940P2	1" square	Pistol	4000	810	2000	2710	1000-1600	1360-2170	22⅞	10.4	9⅞	251	2⅜	56	¾	19	58

*Approx. 15% torque reduction.

**No. 5 spline 1⁵/₈" OD 14 teeth.

Performance figures are at 90 psi (620 kPa) air pressure.

O.T.: Outside Trigger

I.T.: Inside Trigger

1½" Class Impacttools



● 2950B7



▲ 5980A1

Features

Series 2945 and 2950

- Twin-hammers mean more power per pound
- Direct drive for fast rundown
- Durable epoxy-coated motor housing
- Plated ductile iron hammer case
- Pressure-feed impact mechanism lubrication
- Two-piece motor housing

Model 5980A1

- Precision ball and cam impact mechanism

Standard Equipment

Series 2945

- 1/2" NPT inlet
- Straight dead handle
- Plated hammer case
- Built-in lubricator
- Integral muffler

Series 2950

- 1/2" NPT inlet
- Straight dead handle
- Plated hammer case
- Built-in lubricator
- Integral muffler

Model 5980A1

- 3/4" NPT inlet
- Aluminum hammer case
- Built-in lubricator
- Horizontal eyebolt
- Vertical eyebolt

Equipment at Extra Price

Series 2945 and 2950

- Piped-away exhaust muffler kit No. 2940-KM184
- Horizontal hanger kit No. 2950-K366

Series 5980A1 and 5982A1

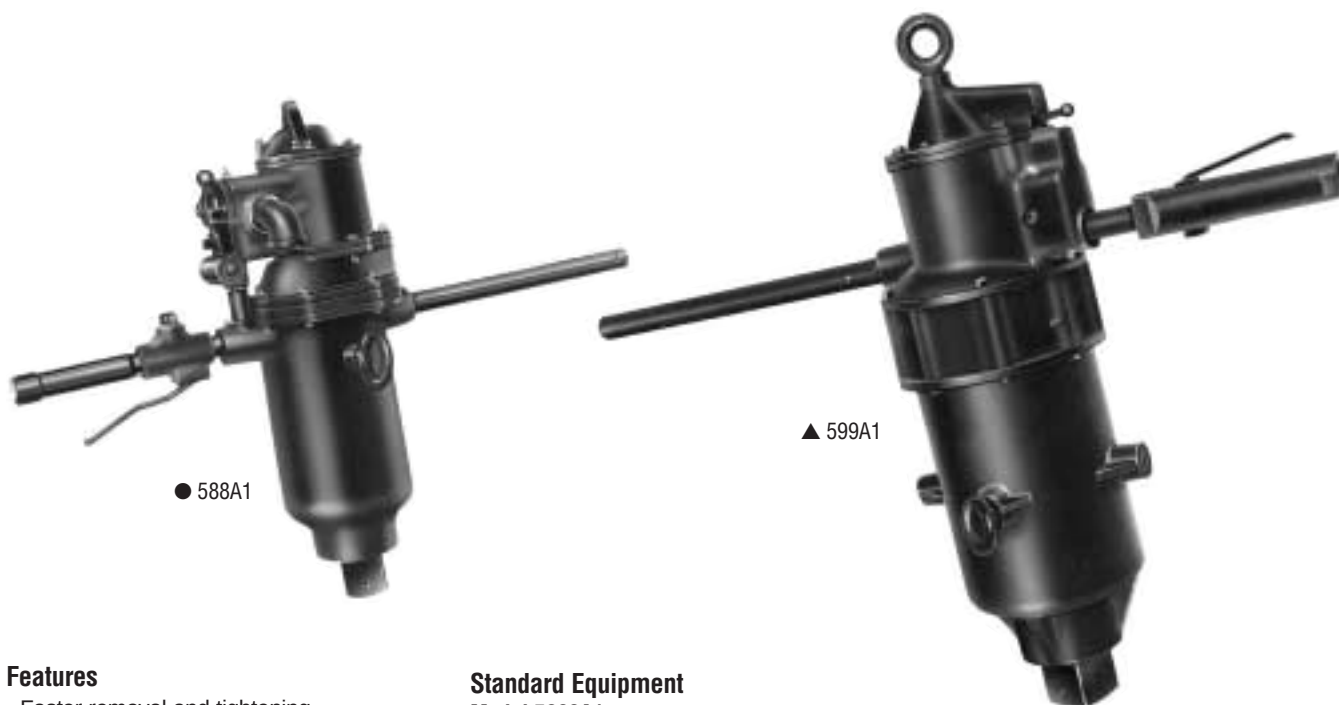
- Dual grip handle No. 5980-48

Model	Drive Description	Handle	Free Speed rpm	Impacts per minute	Maximum Torque		Recomm. Torque Range		Weight, less socket		Length, less socket		Side to Center Distance		Size Hose Recomm. CFM		
					ft.-lb.	Nm	ft.-lb.	Nm	lb.	kg	in.	mm	in.	mm	in.	mm	
Super Duty Impacttools																	
2945A7	1½" square	Grip—O.T.	4000	650	2400	3264	1400-1800	1900-2440	30	13.6	13¾	349	2½	64	¾	19	65
2945B1*	No. 5 spline	Grip—I.T.	4000	650	2400	3264	1400-1800	1900-2440	30	13.6	13¾	349	2½	64	¾	19	65
2945B7	1½" square	Grip—I.T.	4000	650	2400	3264	1400-1800	1900-2440	30	13.6	13¾	349	2½	64	¾	19	65
2950A7	1½" square	Grip—O.T.	3750	650	3000	4080	1600-2500	2170-3390	32⅝	14.8	14½	368	2½	64	¾	19	70
2950B1	No. 5 spline	Grip—I.T.	3750	650	3000	4080	1600-2500	2170-3390	32⅝	14.8	14½	368	2½	64	¾	19	70
● 2950B7	1½" square	Grip—I.T.	3750	650	3000	4080	1600-2500	2170-3390	32⅝	14.8	14½	368	2½	64	¾	19	70
▲ 5980A1	1½" square	Lever	830	1000	10,000	13,560	2300-5500	3119-7460	88	39.9	23	584	3⅛	78	1	25	138

Performance figures are at 90 psi (620 kPa) air pressure.
*No. 5 spline 1⅝" OD 14 teeth.

O.T.: Outside Trigger
I.T.: Inside Trigger

2½" to 3½" Class Impacttools



Features

- Faster removal and tightening of large (4" [102 mm] and larger) fasteners
- Precision ball and cam impact mechanism
- Portable, easy to handle or suspend
- Model 599A1 is the most powerful Impacttool in the world

Standard Equipment

Model 5982A1

- Lever throttle
- ¾" NPT inlet
- Aluminum hammer case
- Side exhaust
- Dead handle
- Horizontal eyebolt
- Vertical eyebolt

Model 588A1

- Lever throttle
- 1" NPT inlet
- Cast iron hammer case
- Dead handle
- Built-in lubricator
- Horizontal eyebolt
- Vertical hanger

Model 599A1

- Lever throttle
- 1¼" NPT inlet
- Cast iron hammer case
- Dead handle
- Built-in lubricator
- Horizontal eyebolt
- Vertical eyebolt

Equipment at Extra Price

Model 5982A1

- Horizontal hanger
ILA582A1-D366

Model	Drive Description	Handle	Free Speed rpm	Impacts per minute	Maximum Torque ft.-lb.	Maximum Torque Nm	Recomm. Torque Range ft.-lb.	Recomm. Torque Range Nm	Weight, less socket lb.	Weight, less socket kg	Length, less socket in.	Length, less socket mm	Side to Center Distance in.	Side to Center Distance mm	Size Hose Recomm. in.	Size Hose Recomm. mm	CFM
5982A1	2½" square	Lever	830	850	20,000	27,120	4000-10,000	5424-13,560	120	54.5	25⅜	645	3½	89	1	25	130
● 588A1	2½" square	Lever	355	550	50,000	67,800	12,000-25,000	16,270-33,900	215	97.5	26⅝	676	4	101	1	25	155
▲ 599A1	3½" square	Lever	295	500	80,000	108,500	26,000-42,000	35,250-57,000	599	272	37½	952	6¾	171	1½	38	375

Performance figures are at 90 psi (620 kPa) air pressure.

Impactool Selection Guide

This chart will assist you in recommending a particular Impactool for a specific application. The figures used are based on 70% of the tension proof load of a given size and grade bolt. For example, a Grade 5 bolt has a proof load of 94,200 psi (649,509 kPa). A 1/2"-13 UNC Grade 5 bolt has a tensile stress area — the cross section at the root of the thread — of 0.1282 in.² (82.7 mm²). So therefore it has an actual proof load of 12,076 lbs. (53,715 newtons). 70% of this proof load is 8453 lbs. (14,523 newtons). By looking at the chart, we find that in order to put 8450 lbs. (37,586 newtons) of tension on the 1/2" (13 mm) UNC Grade 5 bolt, we must apply 70 ft.-lbs. (94.9 Nm) torque. To do this, we recommend the Series 2906 Impactool.

It should be remembered that 70% of the proof load is normally the amount of tension needed to assure a properly tightened joint.

Bolt Grade	Bolt Diameter, in.		1/4	5/16	3/8	7/16	1/2	9/16	5/8	3/4	7/8	1	1 1/8	1 1/4
	Bolt Diameter, mm		6	8	10	11	13	14	16	19	22	25	29	32
	Hex Size, Inches	Max. Min.	1/2 3/8	19/32 15/32	11/16 9/16	25/32 21/32	7/8 3/4	31/32 27/32	11/16 15/16	1 1/4 1 1/8	1 7/16 1 5/16	1 5/8 1 1/2	1 13/16 1 11/16	2 1 7/8
Grade 1	Torque	ft.-lbs. Nm	3 4.07	6 8.14	11 14.9	18 24.4	28 38	43 58.3	55 74.6	97 132	155 210	230 312	340 461	480 651
	Impactool Recommended		2902	2902	2902	2903	2903	2903	2906	2908 2903	2908 2906	2925 2906	2925	2934
	Tension	lbs. kN	730 3.24	1,210 5.38	1,800 8.01	2,460 10.9	3,280 14.6	4,200 18.7	5,200 23.1	7,000 31.1	10,600 47.1	14,000 62.3	18,200 80.9	23,000 102
Grade 5	Torque	ft.-lbs. Nm	8 10.8	16 21.7	28 38	46 62.4	70 95	110 149	140 190	250 339	405 549	600 814	770 1,044	1,080 1,464
	Impactool Recommended		2902 2904	2902 2904	2902 2904	2903 2904	2906	2906 2903	2908	2925 2906	2925 2908	2934 1734	2934 1734	2940
	Tension	lbs. kN	1,900 8.4	3,100 13.8	4,600 20.4	6,350 28.2	8,450 37.6	10,900 48.5	13,500 60	20,000 89	27,400 122	36,000 160	41,000 182	52,000 231
ASTM-A325	Torque	ft.-lbs. Nm							200 271	355 481	570 773	850 1,153	1,060 1,437	1,495 2,027
	Impactool Recommended								2925	2934 2908	2934 2925	2934 1734	2940 1734	2945
	Tension	lbs. kN							19,000 44.5	28,000 124	39,000 173	51,000 227	56,000 249	71,000 316
Grade BB ASTM-A354	Torque	ft.-lbs. Nm	8 10.8	15 20.3	27 36.6	43 58.3	66 89.5	106 144	131 178	234 317	376 510	565 766	830 1,125	1,170 1,586
	Impactool Recommended		2902 2904	2902 2904	2902 2904	2903 2904	2903	2906	2908	2925 2906	2925 2908	2934	2934 2925	2940 1734
	Tension	lbs. kN	1,780 7.9	2,930 13	4,340 19.3	5,950 26.5	7,950 35.4	10,190 45.3	12,660 56.3	18,700 83.1	25,870 115	33,940 151	44,240 196	56,000 249
Grade BC ASTM-A354	Torque	ft.-lbs. Nm	10 13.6	20 27.1	35 47.5	56 75.9	86 117	138 187	173 234	306 415	495 671	742 1,006	1,090 1,478	1,530 2,075
	Impactool Recommended		2902 2904	2902 2904	2903 2904	2906 2904	2906 2904	2906 2904	2908	2925 2906	2934	2934 2925	2940 1734	2945
	Tension	lbs. kN	2,340 10.4	3,850 17.1	5,700 25.3	7,815 34.8	10,430 46.4	13,380 59.5	16,610 74	24,550 109	33,960 151	44,550 198	58,070 258	73,500 327
Grade 8 ASTM-A354	Torque	ft.-lbs. Nm	11 14.9	23 31.2	40 54.2	65 88.1	99 134	159 216	198 268	350 475	566 767	848 1,150	1,245 1,688	1,750 2,373
	Impactool Recommended		2902 2904	2902 2904	2903 2904	2903 2904	2906 2904	2906	2908	2925	2934	2934 2925	2940 1734	2950
Grade BD	Tension	lbs. kN	2,740 12.2	4,400 19.6	6,510 28.9	8,930 39.7	11,920 53	15,290 68	18,980 84.4	28,050 125	38,800 172	50,900 226	66,360 295	84,000 374
	Impactool Recommended		2902 2904	2902 2904	2903 2904	2903 2904	2906 2904	2906	2908	2925	2934	2934 2925	2940 1734	2950
ASTM-A490	Torque	ft.-lbs. Nm							250 339	435 590	715 970	1,070 1,451	1,580 2,142	2,125 2,882
	Impactool Recommended								2925	2934	2934 2925	2940 1734	2945	2950
	Tension	lbs. kN							24,000 107	35,000 156	49,000 218	64,000 285	80,000 356	102,000 454

Only certain Impactools are shown in this chart. Compare the required torque shown in this chart with torque range figures shown in the Impactool specifications tables to select other suitable tools.

Bolt Grade	Bolt Diameter, in.		1 ³ / ₈	1 ¹ / ₂	1 ⁵ / ₈	1 ³ / ₄	2	2 ¹ / ₄	2 ¹ / ₂	2 ³ / ₄	3	3 ¹ / ₄	3 ¹ / ₂	3 ³ / ₄	4
	Bolt Diameter, mm		35	38	41	44	51	57	64	70	76	83	89	95	102
	Hex Size, Inches		Max. 2 ³ / ₁₆	2 ³ / ₈	2 ⁹ / ₁₆	2 ³ / ₄	3 ¹ / ₈	3 ³ / ₈	3 ⁷ / ₈	4 ¹ / ₄	4 ⁵ / ₈	5	5 ³ / ₈	5 ³ / ₄	6 ¹ / ₈
			Min. 2 ¹ / ₈	2 ¹ / ₄	2 ⁷ / ₁₆	2 ⁵ / ₈	3	3 ¹ / ₂	3 ³ / ₄	4 ¹ / ₈	4 ¹ / ₂	4 ⁷ / ₈	5 ¹ / ₄	5 ⁵ / ₈	6
Grade 1	Torque	ft.-lbs.	660	860											
		Nm	895	1,166											
	Impactool Recommended		2934	2940											
			1734												
	Tension	lbs.	28,400	34,600											
		kN	126	154											
Grade 5	Torque	ft.-lbs.	1,470	1,950											
		Nm	1,933	2,644											
	Impactool Recommended		2945	2950											
	Tension	lbs.	64,000	77,000											
		kN	285	342											
ASTM-A325	Torque	ft.-lbs.	1,960	2,600											
		Nm	2,658	3,526											
	Impactool Recommended		2950	5980	These bolts are used on structural steel applications. Torque and tension values are based on running the nut beyond the proof load of the bolt by the turn of the nut method. For detailed information consult the bolt manufacturer.										
	Tension	lbs.	85,000	103,000											
		kN	378	458											
Grade BB ASTM-A354	Torque	ft.-lbs.	1,580	2,080	2,700	3,400	5,150	7,500	10,300	13,100	17,100	21,800	27,500	34,000	41,300
		Nm	2,142	2,820	3,661	4,610	6,983	10,170	13,967	17,764	23,188	29,561	37,290	46,104	56,003
	Impactool Recommended		2945	2950	5980	5980	5982	5982	588	588	588	599	599	599	599
	Tension	lbs.	69,050	83,550	99,680	116,480	155,120	199,360	248,640	285,080	341,780	403,725	470,400	542,850	620,025
		kN	307	371	443	518	690	887	1,106	1,268	1,520	1,796	2,092	2,414	2,758
Grade BC ASTM-A354	Torque	ft.-lbs.	2,075	2,440	3,545	4,465	6,785	9,815	13,600	16,550	21,645	27,700	34,760	42,980	52,360
		Nm	2,814	3,309	4,807	6,054	9,200	13,309	18,442	22,442	29,351	37,561	47,134	58,281	71,000
	Impactool Recommended		2950	5980	5980	5980	5982	5982	588	588	588	599	599	599	599
	Tension	lbs.	90,630	109,620	130,830	152,880	203,950	261,660	326,340	361,100	432,910	517,690	595,840	687,610	787,370
		kN	403	488	582	680	907	1,164	1,452	1,606	1,926	2,303	2,650	3,058	3,493
Grade 8 ASTM-A354	Torque	ft.-lbs.	2,375	3,135											
		Nm	3,220	4,251											
Grade BD	Impactool Recommended		2950	5980											
	Tension	lbs.	103,570	125,330											
		kN	461	557											
ASTM-A490	Torque	ft.-lbs.	2,780	3,700											
		Nm	3,770	5,017											
	Impactool Recommended		5980	5980	These bolts are used on structural steel applications. Torque and tension values are based on running the nut beyond the proof load of the bolt by the turn of the nut method. For detailed information consult the bolt manufacturer.										
	Tension	lbs.	121,000	148,000											
		kN	538	658											

Torque Control Impacttools

IR Torque Control Impacttools are designed for applications requiring fastener tightening control. The tools shut off automatically when preset torque levels are reached. Depending upon the model, built-in or detachable torsion bars sense torque levels, and signal a mechanical shut-off device to prevent over-torquing. These tools combine a ball and cam impact mechanism with a heavy-walled aluminum hammer case for maximum strength, minimum weight.



Torque Range: 6-90 ft.-lb., 8-122 Nm

Torque Control Impacttools



● 5020TAL1



★ 5040TDQ

Equipment at Extra Price

Series 5020T and Model 5020TDQ

- Torque setting clamp No. 5020T-951 (for Series 5020T only)
- Horizontal hanger:
 - One horizontal hanger No. 5020-366 includes spacers & screws
 - Two horizontal hanger spacers No. 504-140
 - Two horizontal hanger cap screws No. 504-376A
- Vertical hanger No. 5020-365

Series 5040T and Model 5040TDQ

- Vise-type torque setting jig No. 5040T-A951 (for Series 5040T only)
- Horizontal hanger:
 - One horizontal hanger No. 5040-366. Includes the following; Two horizontal hanger spacers No. 504-140 and two horizontal hanger cap screws No. 504-376A
- Vertical hanger No. 5040-365



▲ 5040TAL1

Model	Drive Description	Torque Range		Type Torsion Bar	Free Speed rpm	Impacts per minute	Weight		Length		Side to Center Distance		CFM
		ft.-lb.	Nm				lb.	kg	in.	mm	in.	mm	
● 5020TAL1	3/8" square	6-17	8-23	AB	1400	2100	4	1.81	9	229	1 1/16	27	10
5020TAH1	3/8" square	10-30	13-40	AB	1400	2100	4	1.81	9	229	1 1/16	27	10
5020TDQ	7/16" hex Q.C.	10-30	13-40	NAD	1400	2100	4 3/16	1.9	11	279	1 1/16	27	10
▲ 5040TAL1	1/2" square	20-45	27-61	AB	1500	2150	6 1/4	2.84	10 1/2	267	1 3/8	35	15
5040TAM1	1/2" square	40-65	54-88	AB	1500	2150	6 1/4	2.84	10 1/2	267	1 3/8	35	15
5040TAH1	1/2" square	60-90	81-122	AB	1500	2150	6 1/4	2.84	10 1/2	267	1 3/8	35	15
★ 5040TDQ	7/16" hex Q.C.	20-90	27-122	NAD	1500	2150	6 7/8	3.12	13 3/4	349	1 3/8	35	15

All of the above square drive Impacttools are furnished with pin-type retainer.

Series 5020 and 5040 Impacttools have 1/4" NPT air inlet: 1/4" (6 mm) size hose is recommended.

Performance figures are at 90 psi (620 kPa) air pressure.

AB = Adjustable, Built-in torsion bar. NAD = Non-adjustable, Detachable torsion bar.

Weights shown are with torsion bar, less socket. Weights of models with detachable torsion bars are with heaviest torsion bars. Lengths shown are with torsion bar, less socket.

Models ending in L1 are equipped with light torsion bar.

Models ending in M1 are equipped with medium torsion bar.

Models ending in H1 are equipped with heavy torsion bar.

Torque Control Impacttools

Non-adjustable Detachable Torsion Bars and Kits for Models 5020TDQ and 5040TDQ

• No. 5040TDQ–KP637 torsion bar kit (consists of one each non-adjustable torsion bar with pin-type retainer and No. 5040TDQ–637 torsion bar case)

• No. 5040TDQ–KB637 torsion bar kit (consists of one each non-adjustable torsion bar with ball-type retainer and No. 5040TDQ–637 torsion bar case)

Torsion Bar Number		Model 5020TDQ		Model 5040TDQ		Color Code
With 12" Square Drive Pin-Type Retainer	With 12" Square Drive Ball-Type Retainer	Torque Range ft.-lb.	Torque Range Nm	Torque Range ft.-lb.	Torque Range Nm	
5040TDQ–P535–1	5040TDQ–B535–1	6-10	8.14-13.6	20-25	27.1-33.9	Red
5040TDQ–P535–2	5040TDQ–B535–2	8-12	10.8-16.3	22-30	29.8-40.7	Orange
5040TDQ–P535–3	5040TDQ–B535–3	10-14	13.6-19	25-35	33.9-47.5	Yellow
5040TDQ–P535–4	5040TDQ–B535–4	12-16	16.3-21.7	30-40	40.7-54.2	Green
5040TDQ–P535–5	5040TDQ–B535–5	14-18	19-24.4	35-45	47.5-61.0	Blue
5040TDQ–P535–6	5040TDQ–B535–6	16-20	16.3-27.1	40-50	54.2-67.8	Violet
5040TDQ–P535–7	5040TDQ–B535–7	18-22	24.4-29.8	45-55	61.0-74.6	Red
5040TDQ–P535–8	5040TDQ–B535–8	20-24	27.1-32.5	50-60	67.8-81.4	Orange
5040TDQ–P535–9	5040TDQ–B535–9	22-26	29.8-35.2	55-65	74.6-88.1	Yellow
5040TDQ–P535–10	5040TDQ–B535–10	24-28	32.5-38	60-75	81.3-101	Green
5040TDQ–P535–11	5040TDQ–B535–11	26-29	35.2-39.3	70-85	94.9-115	Violet
5040TDQ–P535–12	5040TDQ–B535–12	27-30	36.6-40.7	75-90	102-122	Blue

Torque Control Impacttool Operation

The Torque Control Impacttool converts the torque of the air motor into powerful rotary impacts when a certain resistance to turning is met. The Ingersoll-Rand principle of compressing a sturdy hammer spring and suddenly releasing this energy to strike a powerful rotary blow makes it possible to quickly and efficiently run fasteners.

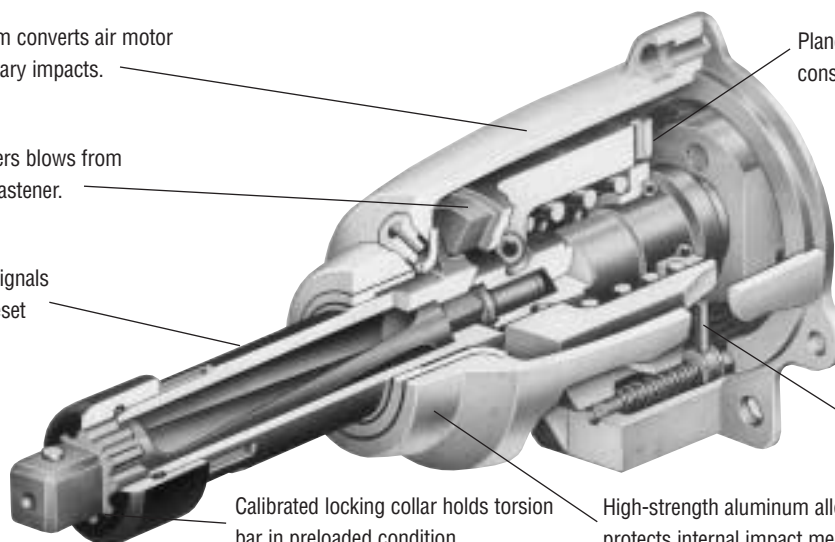
The Torque Control Impacttool also incorporates a torsion bar and an automatic shut-off valve. Torque control is obtained by preloading the torsion bar to the torque desired. When the resistance of the fastener being run becomes equal to the torque preloaded in the torsion bar, the extra clearance in the flutes of the locking collar allows the torsion bar to flex a few degrees beyond its original setting.

Acting like a spring, the torsion bar snaps back, supplying additional impetus to the hammer, causing the hammer to rebound higher and trip the automatic shut-off valve, instantly stopping the tool. By varying the setting of the torsion bar, using different torsion bars and/or different size tools, torques from 6 to 90 ft.-lbs. (8.14 to 122 Nm) can be accurately obtained time after time.

Ball and cam mechanism converts air motor torque into powerful rotary impacts.

Tough steel anvil transfers blows from impact hammer to the fastener.

Adjustable torsion bar signals shutoff device when preset torque is reached.



Planetary gear drive delivers smooth constant speed from motor.

Automatic shutoff stops tool when preset torque is reached.

Electric Impacttools



For applications where the use of compressed air is not practical, IR offers a complete line of electric Impacttools in 3/8, 1/2, 3/4 and 1-inch drive sizes. All models are ranked according to the Super Duty/Heavy Duty/Standard Duty ratings, and incorporate the same high quality of design and construction that has made Ingersoll-Rand the world leader in Impacttools.

Electric Impacttools



● 8005



▲ 8055



★ 8056

Features

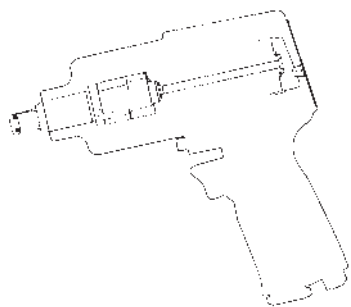
- Full ball bearing construction throughout for maximum performance
- High quality, heat treated steel gears for longer life
- Full power in reverse for removing bolts, nuts, studs and lag screws
- Lightweight cast aluminum housing and handle reduce operator fatigue
- Heavy duty 3-conductor cord – grounding required
- Delivers high torque for maximum efficiency

Model	Drive Description	Handle	Free Speed rpm	Impacts per minute	Maximum Torque		Recomm. Torque Range		Weight, less socket lb.	Length, less socket in.	Side to Center Distance in.	amps	volts	Chord Length
● 8005	3/8" square	Pistol	2000	2200	85	115	5-50	7-68	4 1/2	10 1/8	1 3/8	3.0	120 AC	10'
8049	1/2" square	Pistol	1900	2000	290	393	30-180	41-244	6 3/4	11 11/16	1 5/8	5.0	120 AC	10'
8053	1/2" square	Pistol	1900	1900	330	448	50-225	68-305	7	10 1/4	1 5/8	5.0	120 AC/DC	15'
8053QC	7/16" hex QC	Pistol	1900	1900	300	407	50-200	68-272	7	11	1 5/8	5.0	120 AC/DC	15'
▲ 8055	3/4" square	Pistol	1700	1725	450	610	100-375	136-509	10	11 7/8	1 3/4	7.5	120 AC/DC	8'
8062	5/8" hex QC	Pistol	1700	1725	400	542	100-350	136-475	10	12 7/8	1 3/4	7.5	120 AC/DC	8'
★ 8056	1" square	Grip	800	900	750	1017	300-600	407-814	32 1/2	14 1/8	2 3/8	10.0	120 AC/DC	15'

Tools comply with OSHA requirements and are UL listed.

Quick Reference Guide

Drive Size	Super Duty Series	Super Duty Page	Heavy Duty Series	Heavy Duty Page	Standard Duty Series	Standard Duty Page	Torque Control Series	Torque Control Page	Electric Series	Electric Page
3/8"	2902	5	1702	5			5020	19	8005	22
3/8"	2903	5	2904	5						
7/16" Quick Change					2131	6	5020	19		
7/16" Quick Change							5040	19		
1/2"	2906	6	2707	6	2705	6	5040	19	8053	22
1/2"					2904	6			8049	22
1/2"					2131	6				
5/8"	2908	8								
5/8" Quick Change									8062	22
3/4"	2925	10	1720	10					8055	22
3/4"			2161P	10						
1"	2934	12	1734	12	1720	10			8056	22
1"	2940	13	1712	12	2171P	10				
1 1/2"	2945	14								
1 1/2"	2950	14								
1 1/2"	5980	14								
2 1/2"	5982	15								
2 1/2"	588	15								
3 1/2"	599	15								



Pressure-Feed Lubrication System

Ingersoll-Rand uses a "pressure-feed" lubrication system on all Twin-Hammer and Jumbo Hammer Impact Mechanisms. This exclusive system allows the operator to externally inject grease into a chamber through a grease fitting in the rear of the motor housing.

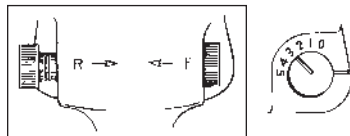
Air pressure from the motor force feeds the right amount of grease from the

chamber and through the rotor, distributing a film of protective grease on the hammer mechanism. This system insures the continuous lubrication of critical hammer parts, resulting in longer, trouble-free life.

Use Cat. No. R000A2-228 Metal Grease Gun and Cat. No. 100 Grease, or equivalent. This grease has the right viscosity to flow through the small orifice in the rotor and anvil.

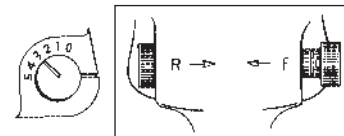
Power Regulator System

Some Twin-Hammer and Jumbo Hammer tools are equipped with a combination power regulator/reverse valve. This design allows operators to adjust power output, to prevent over-torquing on delicate work, in one direction—while maintaining full power in the opposite direction. The power output in either direction is designated by the numbers "0" thru "5". Number 5 designates maximum power.



Forward:

Regulator on 3 reduces power output. Switching to **reverse** automatically maintains full power.

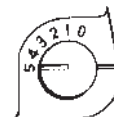


Reverse:

Regulator on 3 reduces power output. Switching to **forward** automatically maintains full power.

Regulator on 5:

Forward, maximum power output
Reverse, maximum power output



Sockets and Accessories

The next several pages cover Impactool sockets and accessories, excerpted from the Ingersoll-Rand IRAX Accessories catalog (Form # 52225-F). These items are specifically designed to maximize the performance and versatility of your Impactools. The selection presented here includes:

- Socket sets
- Power angle attachments
- Power driver extensions
- Power hex to square adapters
- Power socket adapters
- Individual sockets
- “O” rings and retaining pins
- One-piece socket retainers
- Power universal joints
- Power keyless chucks
- Power quick change chucks



Sockets and Accessories

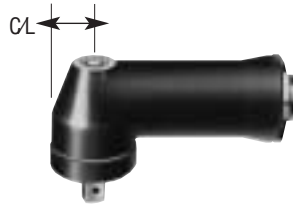
Socket Sets

Part Number	Description
72313	3/8" drive set (5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, metal tray)
77314	3/8" drive deep set (5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, metal tray)
72356M	3/8" drive metric set (8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, metal tray)
77357M	3/8" drive deep metric set (8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, metal tray)
74411	1/2" drive set (7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16, 1, 11/16, metal tray)
73412	1/2" drive deep set (3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16, 1, metal tray)
74466M	1/2" drive metric set (10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27, metal tray)
73467M	1/2" drive deep metric set (10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27, metal tray)
075608L	3/4" drive deep set (7/8, 15/16, 1, 11/16, 11/8, 11/4, 15/16, 11/2)
075609	3/4" drive set (3/4, 13/16, 7/8, 15/16, 1, 11/16, 11/8, 13/16, 11/4, metal tray)
075610	3/4" drive set (3/4, 13/16, 7/8, 15/16, 1, 11/16, 11/8, 13/16, 11/4, 15/16, 13/8, 17/16, 11/2)



Power Angle Attachments

A reduction of approximately 50% of the torque output will be encountered.



Part Number	Square Drive Size in.	Length in.	Height Over Drive, in.	Amount of Angle, Degrees	Weight/Lbs.	C/L
4UA9 ⁽¹⁾	1/2	6 1/4	2 15/16	90	3.0	1 3/32
2920A90	3/4	7	3 1/2	90	8.6	1 23/64
2934A90	1	8 1/2	4 3/8	90	16	1 27/32

⁽¹⁾ Angle Head gear ratio 1.333 to 1-Fits any 1/2 Drive Impact



Power Hex to Square Adapters

Part Number	Drive Size in. Hex	Drive Size in. Square	Length in.	Major Diam. in.
7102	1/4	1/4	2	3/8
7106	1/4	3/8	4	9/16
7121	7/16	1/2	2 3/4	2 1/32



Power Socket Adapters

Part Number	Square Drive Size in. Female	Square Drive Size in. Male	Length in.	Major Diam. in.
2U-215	3/8	1/2	1 5/16	5/8
07655	3/4	1	2 1/4	1 5/8
07656	1	3/4	1 7/8	2 1/8
25006	2 1/2	1 1/2	4 1/2	5

Part Number	Spline Drive Female	Spline Drive Male	Length in.	Major Diam. in.
09902	No.5 Spline	1" Sq.	4 3/8	2 3/8
10005	1" Sq.	No.5 Spline	4 1/4	2 1/4



Power Driver Extensions

Part Number	Square Drive Size in.	Length in.
7175P	3/8	3
7181P	1/2	5
07567	3/4	7
10607	1	7
15097P	1 1/2	8
25001-10	2 1/2	10

Part Number	Spline Drive No.	Length in.
09901-15	5	15

Sockets and Accessories

3/8" Square Drive Power Sockets

Wrench Size in.	Part Number	Bolt Depth in.
Standard – Hex/6 Point		
5/16	7210H	1/2
11/32	7211H	1/2
3/8	7212H	1/2
7/16	7214H	1/2
1/2	7216H	1/2
9/16	7218H	1/2
5/8	7220H	1/2
11/16	7222H	9/16
3/4	7224H	9/16
Deep – Hex/6 Point		
5/16	7710H	1
3/8	7712H	1
7/16	7714H	1
1/2	7716H	1
9/16	7718H	1
5/8	7720H	1
11/16	7722H	1
3/4	7724H	1
Ball Type Universal – Hex/6 Point		
3/8	7273P	1/2
7/16	7274P	1/2
1/2	7275P	9/16
9/16	7276P	9/16

Metric–1/2" Square Drive Power Sockets

Wrench Size mm	Part Number
Standard – Metric/6 Point	
8	7408M
9	7409M
10	7410M
11	7411M
12	7412M
13	7413M
14	7414M
15	7415M
16	7416M
17	7417M
18	7418M
19	7419M
21	7421M
22	7422M
23	7423M
24	7424M
25	7425M
26	7426M
27	7427M
28	7428M
30	7430M
32	7432M

1/2" Square Drive Power Sockets

Wrench Size in.	Part Number	Bolt Depth in.
Standard – Hex/6 Point		
3/8	7412H	7/8
7/16	7414H	7/8
1/2	7416H	7/8
9/16	7418H	7/8
5/8	7420H	7/8
11/16	7422H	7/8
3/4	7424H	7/8
13/16	7426H	7/8
7/8	7428H	7/8
15/16	7430H	1 1/8
1	7432H	1 1/8
1 1/16	7434H	1 1/8
1 1/8	7436H	1 1/8
1 1/4	7440H	1 1/8
Deep – Hex/6 Point		
3/8	7312H	2 5/8
7/16	7314H	2 5/8
1/2	7316H	2 5/8
9/16	7318H	2 5/8
5/8	7320H	2 5/8
11/16	7322H	2 9/16
3/4	7324H	2 9/16
13/16	7326H	2 9/16
7/8	7328H	2 3/4
15/16	7330H	2 3/4
1	7332H	2 11/16
1 1/16	7334H	2 11/16
1 1/8	7336H	2 11/16
Ball Type Universal – Hex/6 Point		
7/16	7474P	3/8
1/2	7475P	3/8
9/16	7476P	9/16
5/8	7477P	5/8
3/4	7479P	1 1/16
13/16	7480P	1 1/16

3/4" Square Drive

Wrench Size in.	Part Number	Bolt Depth in.
Standard – Hex/6 Point		
9/16	07509	3/4
3/4	07512	15/16
13/16	07513	15/16
7/8	07514	1
15/16	07515	1
1	07516	1 1/16
1 1/16	07517	1 1/16
1 1/8	07518	1 1/16
1 3/16	07519	1 1/8
1 1/4	07520	1 1/8
1 5/16	07521	1 1/8
1 3/8	07522	1 1/8
1 7/16	07523	1 5/32
1 1/2	07524	1 5/32
Deep – Hex/6 Point		
3/4	07512L	1 5/8
13/16	07513L	1 5/8
7/8	07514L	1 5/8
15/16	07515L	1 5/8
1	07516L	2
1 1/16	07517L	2
1 1/8	07518L	2
1 3/16	07519L	2 3/16
1 1/4	07520L	2 3/16
1 5/16	07521L	2 3/16
1 3/8	07522L	2 5/16
1 7/16	07523L	2 3/8
1 1/2	07524L	2 3/8

1" Square Drive

Wrench Size in.	Part Number	Bolt Depth in.
Standard – Hex/6 Point		
3/4	10012	1 1/8
13/16	10013	1 1/8
7/8	10014	1 1/8
15/16	10015	1 1/8
1	10016	1 1/4
1 1/16	10017	1 1/4
1 1/8	10018	1 1/4
1 3/16	10019	1 1/4
1 1/4	10020	1 3/8
1 5/16	10021	1 7/16
1 3/8	10022	1 1/2
1 7/16	10023	1 1/2
1 1/2	10024	1 9/16
1 9/16	10025	1 5/8
1 5/8	10026	1 11/16
1 11/16	10027	1 3/4
1 3/4	10028	1 13/16
1 13/16	10029	1 7/8
1 7/8	10030	1 15/16
1 15/16	10031	2
2	10032	2 1/16
2 1/16	10033	2 1/8
2 1/8	10034	2 3/16
2 3/16	10035	2 1/4
2 1/4	10036	2 5/16
2 5/16	10037	2 3/16
2 3/8	10038	2 1/4
2 7/16	10039	2 3/8
2 1/2	10040	2 1/2
2 9/16	10041	2 1/2
2 5/8	10042	2 1/2
2 11/16	10043	2 3/4
2 3/4	10044	2 3/4
2 13/16	10045	2 3/4
2 7/8	10046	2 3/4
2 15/16	10047	3
3	10048	3
3 1/8	10050	3 1/8
3 3/8	10054	3
3 1/2	10056	3

1" Square Drive (cont.)

Wrench Size in.	Part Number	Bolt Depth in.
Deep – Hex/6 Point		
1 15/16	10021L	2 3/8
1 1/2	10024L	2 3/8
1 5/8	10026L	2 7/8
Thin Wall Deep – Hex/6 Point		
1 1/16	10017-LT	3 1/8
1 1/4	10020-LT	3 1/8

Sockets and Accessories

1½" Square Drive

Wrench Size in.	Part Number	Bolt Depth in.
Standard – Hex/6 Point		
1⅜	15022	2⅛
17/16	15023	2⅛
1½	15024	2⅛
1⅞/16	15025	2⅛
1⅝	15026	2⅛
1Ⅺ/16	15027	2⅛
1¾	15028	2⅛
1Ⅹ3/16	15029	2⅛
1⅞	15030	2⅛
1Ⅰ5/16	15031	2⅛
2	15032	2⅛
2Ⅰ/16	15033	2⅛
2⅛	15034	2⅛
2Ⅹ3/16	15035	2⅛
2¼	15036	2⅝
2Ⅴ/16	15037	2⅝
2⅜	15038	2⅝
2⅞/16	15039	2⅝
2½	15040	2⅝
2Ⅱ/16	15041	2⅝
2⅝	15042	2¾
2Ⅺ1/16	15043	2¾
2¾	15044	2⅞
2Ⅹ3/16	15045	2⅞
2⅞	15046	3⅛
2Ⅰ5/16	15047	3⅛
3	15048	3⅛
3⅛	15050	3⅜
3⅜/16	15051	3⅜
3¼	15052	3½
3Ⅴ/16	15053	3½
3⅝	15054	3½
3⅞/16	15055	3¾
3½	15056	3¾
3Ⅱ/16	15057	3¾
3⅝	15058	3¾
3Ⅺ1/16	15059	3¾
3¾	15060	3¾

1½" Square Drive (cont.)

Wrench Size in.	Part Number	Bolt Depth in.
Standard – Hex/6 Point		
3⅞/8	15062	3¾
3Ⅰ5/16	15063	3¾
4	15064	3½
4⅛	15066T	3¾
4⅜/16	15067	3¾
4Ⅰ/4	15068	3¾
4Ⅴ/16	15069	4⅛
4½	15072	4
4Ⅴ/8	15074	4
4¾/4	15076	4
Deep – Hex/6 Point		
1⅜	15022L	3⅛
17/16	15023L	3⅛
1½	15024L	3⅛
1Ⅱ/16	15025L	3⅛
1⅝	15026L	3⅛
1Ⅺ1/16	15027L	3⅛
1¾	15028L	3⅛
1Ⅹ3/16	15029L	3⅛
1⅞	15030L	3⅛
1Ⅰ5/16	15031L	3⅛
2	15032L	3⅛
2Ⅰ/16	15033L	3⅛
2⅛	15034L	3⅛
2Ⅹ3/16	15035L	3⅛
2¼	15036L	3⅝
2Ⅴ/16	15037L	3⅝
2⅜	15038L	3⅝
2⅞/16	15039L	3⅝
2½	15040L	3⅝
2Ⅱ/16	15041L	3⅝
2⅝	15042L	3⅞
2Ⅺ1/16	15043L	3⅞
2¾	15044L	3⅞
2Ⅹ3/16	15045L	4½
2⅞	15046L	4½
3	15048L	4¾
3Ⅰ/16	15049L	4¾

1½" Square Drive (cont.)

Wrench Size in.	Part Number	Bolt Depth in.
Deep – Hex/6 Point		
3⅛	15050L	4¾
3⅜/16	15051L	4⅞
3¼	15052L	4⅞
3Ⅴ/16	15053L	4⅞
3⅞/16	15055L	4⅞
3½	15056L	4⅞
3Ⅱ/16	15057L	5⅛
3⅝	15058L	5⅛
3Ⅺ1/16	15059L	5⅛
3¾	15060L	5⅛
3Ⅹ3/16	15061L	5⅛
3⅞	15062L	5⅛
4½	15072L	5⅝
4Ⅴ/8	15074L	5⅞

2½" Square Drive

Wrench Size in.	Part Number	Bolt Depth in.
Standard – Hex/6 Point		
1¾	25028	2 ¹⁵ / ₁₆
1⅞	25030	2 ¹⁵ / ₁₆
2	25032	2 ¹⁵ / ₁₆
2⅛	25034	2 ¹⁵ / ₁₆
2¼	25036	2 ¹⁵ / ₁₆
2⅜	25038	2 ¹⁵ / ₁₆
2⅝	25042	2 ¹⁵ / ₁₆
2¾	25044	2 ¹⁵ / ₁₆
2 ¹⁵ / ₁₆	25047	2 ¹⁵ / ₁₆
3	25048	2 ¹⁵ / ₁₆
3⅛	25050	3 ¹⁵ / ₃₂
3¼	25052	3 ¹⁵ / ₃₂
3⅜	25054	3 ¹⁵ / ₃₂
3½	25056	3 ¹⁵ / ₃₂
3⅝	25058	3 ¹⁵ / ₃₂
3¾	25060	3¾
3⅞	25062	3¾
4	25064	3 ³¹ / ₃₂
4⅛	25066	3 ³¹ / ₃₂
4¼	25068	4 ⁷ / ₃₂
4⅜	25070	4 ⁷ / ₃₂
4½	25072	4¾
4⅝	25074	4¾
4⅞	25078	4¾
5	25080	4¾
5⅛	25082	4 ³¹ / ₃₂
5¼	25084	4 ³¹ / ₃₂
5⅜	25086	5 ¹ / ₃₂
5½	25088	5 ¹ / ₃₂
5⅝	25090	5 ¹⁵ / ₃₂
6¼	25100	5

No. 5 Spline Drive⁽¹⁾

Wrench Size in.	Part Number	Bolt Depth in.
Standard – Hex/6 Point		
7/8	09914	1½
1⅛	09917	1½
1⅜	09919	1½
1¼	09920	1½
1⅞	09923	1⅝
1½	09924	1⅝
1⅝	09926	1¾
2	09932	2⅛

⁽¹⁾ 14 Spline, 1⅝" Diameter

"O" Rings and Retaining Pins

Part Number	Description
For 2½" Square Drive Sockets	
588-216	4⅛" I.D. "O" Ring
588-215	4⅝" x 5⅛" Retaining Pin
For 3½" Square Drive Sockets	
599-216	6¼" I.D. "O" Ring
599-215	6½" X 1½" Retaining Pin

Sockets and Accessories

One Piece Socket Retainers

Warning: One Piece Socket Retainers should not be used for any purpose other than to retain sockets on Impacttools. Always check for wear on pin before using. Refer to the instructions furnished with the Retainer for selection of correct sizes and installation procedure.



Part Number	Inside Diameter	
	in.	mm
For 3/4" Square Drive Sockets		
RR10005S	1 1/4	32
RR10032S	1 7/16	37
RR10034S	1 5/8	41
For 1" Square Drive Sockets		
RR10008S	1 3/4	45
RR10010S	1 15/16	49
RR10015S	2 1/8-2 1/4	54-57
RR10017S	2 1/2	64
RR10019S	2 5/8	67
RR10020S	2 7/8-3	73-76
For 1 1/2" Square Drive Sockets		
RR10020S	2 7/8-3	73-76
RR10025S	3 3/8	86
RR10030S	3 7/8	98
RR10035S	4 3/8	111



Power Universal Joints

Universal joints make it easy to work around difficult angles and hard-to-reach nuts.

Driver	Part Number	Depth in.	Major Diam. in.
3/8" Sq.	7270P	2 1/2	1 5/16
1/2" Sq.	7470P	2 1/2	1 1/8
3/4" Sq.	07570	4 1/4	1 3/4
1" Sq.	10670	4 5/16	2 3/8
No. 5 Spline	*09670A	8	2 7/8

*Availability subject to prior sale.



Power Quick Change Chuck

For greatest versatility on screw-driving jobs, snap a Quick Change Chuck on the drive of your Impacttool. A wide variety of hex shank bits can be easily inserted and quickly changed by merely pushing on the spring loaded collar.

Square Drive Size in. Female	Part Number	Hex Chuck Size in. Female
3/8	2U-A925-4	1/4
3/8	502-A925-7	7/16
1/2	4U-A925-7	7/16

Flush Hex Sockets

Socket Size	For Series 6 and 7 3D6 Angle Head Part No.	For Series 8 and 9 32 Angle Head Part No.	For Series 8 and 9 53 Angle Head Part No.	For Series 9 83 Angle Head Part No.
3/4"				182A88-807
13 mm	8SA34-807M	8SA34-807M	182A13MF-807	
17 mm			8SA56-807M	
19 mm				182A88-807

Protective Tool Boots

Keep your Ingersoll-Rand air impact ratchets, wrenches, and drills free from external damage with protective boots. As you

work, these boots also absorb some of the tool vibration, keeping you more comfortable, too.

Tool Number	Boot Number	Material
1702P1	202-P32	Vinyl
1701B1	211-P32	Vinyl
2705A1	231-P32	Vinyl
2131, 2131-2	2131-P32	Vinyl
2707A1	244-P32	Vinyl
2925P1	2161-P32	Vinyl
2925P3	2161-P32	Vinyl
231, 231-2	230-32	Leather
261-P32	261-1710	Vinyl
2080-P32	2080	Vinyl

Balancers



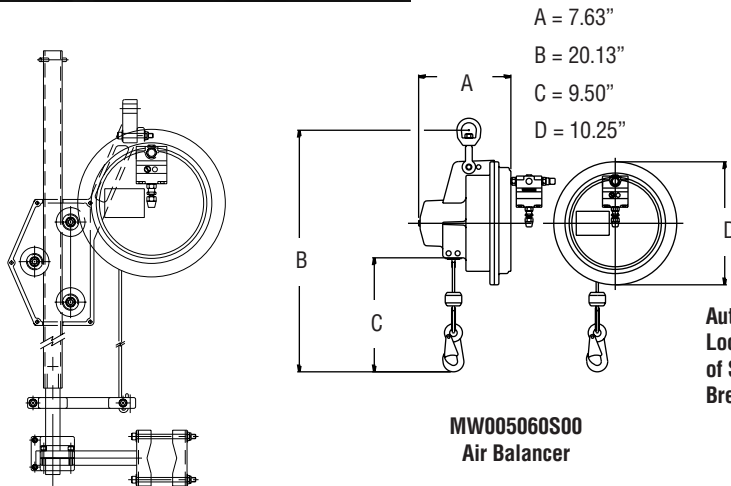
E-Z Torque™ tool holders and Balance Air™ balancers

This unique combination of a fully adjustable tool holder and compact, efficient balancer provides a fast, easy way of achieving optimum tool positioning with proper operator ergonomics.

Constructed of cast aluminum and steel, with ball bearing rollers and a 48" travel, the E-Z Torque unit eliminates spring pull-back, and can be effectively used with air or electric tools, and can handle up to 100 ft.-lbs. of torque.

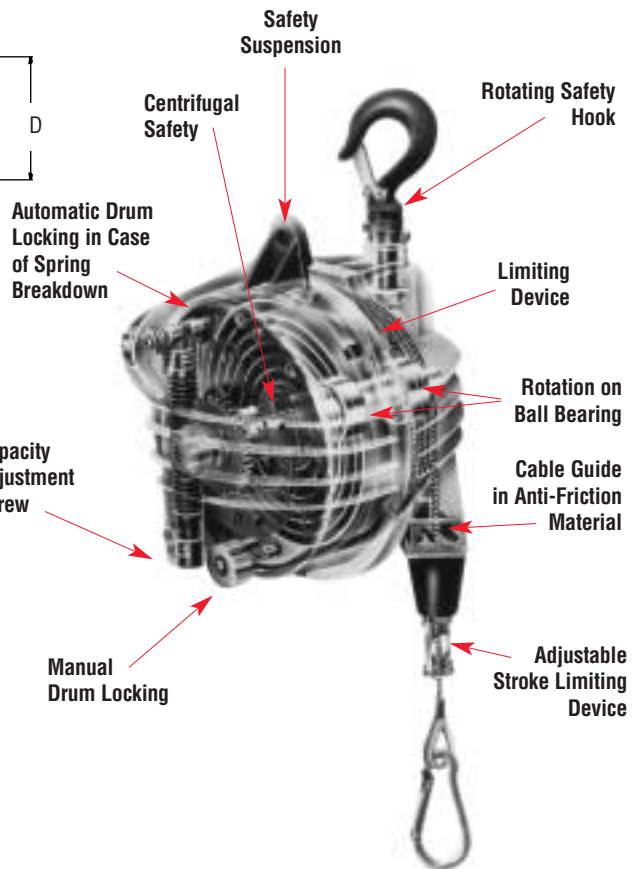
The 50 lb. capacity Balance Air unit has a capacity range of 2-50 lbs., with a floating action that eliminates tension on the load. An external regulator provides easy adjustment, and the unit can provide "stepped" operation by sequencing the air signal.

E-Z Torque and Balance Air – a productivity solution designed for the operator, and to maximize the performance of Ingersoll-Rand tools.



MT005060S00
E-Z Torque

MW005060S00
Air Balancer



The IRAX red balancers from Ingersoll-Rand offer you five different series to fill all your balancing requirements. The light, medium, intermediate, heavy and super duty series cover weight balancing requirements from 1 lb. to 330 lbs.

These rugged balancers are made of die cast aluminum. A safety locking device on the medium, heavy and super duty models is designed to prevent dropping of the tool should the spring fail. Easy to use controls allow for accurate spring adjustment.

With over 50 models to choose from and lifts ranging from 5 to 9 feet, IRAX balancers fill your balancer requirements with quality from Ingersoll-Rand.

Model Number Key					
B	M	D	L	L	10
Balancer	H = Heavy I = Intermediate L = Light M = Medium S = Super	Duty	L = Long Cable (8.2' or 9.85') S = Short Cable (6.5')	Locking Type	Upper Weight Capacity in Kilograms

Balancers

Hose Reel Balancer – Specification

Model No.	Hose Nipples	Capacity lb.	Lift ft.
BHR-8	1/4"	7/8 - 1 3/4	4 1/4
BHR-15	1/4"	1 1/2 - 3 1/3	4 1/4
BHR-25	1/4"	2 5/8 - 5 1/2	4 1/4

Light Duty – Capacity 0.9 to 66.6 lbs. (0.4 to 3 kg)

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

Model No.	Capacity		Weight		Lift	
	lb.	kg	lb.	net-kg	ft.	mm
BLD1	.9-2.2	0.4-1	1.3	0.6	5.2	1600
BLD2	2.2-4.4	1-2	1.3	0.6	5.2	1600
BLD3	4.4-6.6	2-3	1.3	0.7	5.2	1600

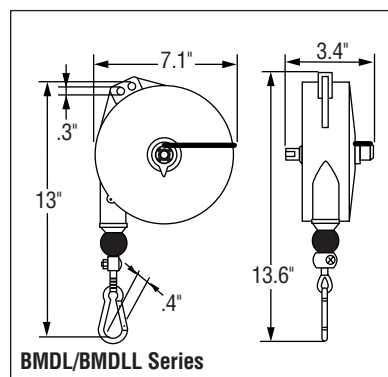
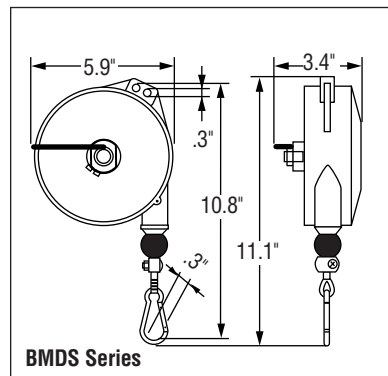
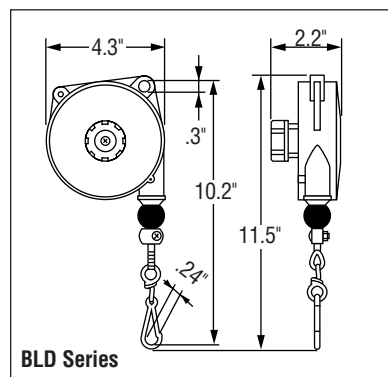
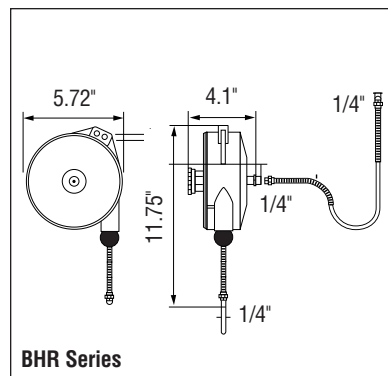
Medium Duty – Capacity 2.2 to 26.5 lbs. (1 to 12 kg)

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

Model No.	Capacity		Weight		Lift	
	lb.	kg	lb.	net-kg	ft.	mm
BMDS-2	2.2-5.5	1-2.5	4.4	2.0	6.5	2000
BMDS-4	4.4-8.8	2-4	4.4	2.0	6.5	2000
BMDS-6	8.8-13.2	4-6	5.1	2.3	6.5	2000
BMDS-8	13.2-17.6	6-8	5.5	2.5	6.5	2000
BMDL-4	4.4-8.8	2-4	6.4	2.9	8.2	2500
BMDL-6	8.8-13.2	4-6	7.1	3.2	8.2	2500
BMDL-8	13.2-17.6	6-8	7.7	3.5	8.2	2500
BMDL-10	17.6-22.0	8-10	8.2	3.7	8.2	2500
BMDL-12	22.0-26.5	10-12	8.8	4.0	8.2	2500

Locking Type Balancer

Model No.	Capacity		Weight		Lift	
	lb.	kg	lb.	net-kg	ft.	mm
BMDLL-4	4.4-8.8	2-4	6.6	3.0	8.2	2500
BMDLL-6	8.8-13.2	4-6	7.3	3.3	8.2	2500
BMDLL-8	13.2-17.6	6-8	7.9	3.6	8.2	2500
BMDLL-10	17.6-22.0	8-10	8.4	3.8	8.2	2500



Intermediate Duty – Capacity 8 to 55 lbs. (4 to 25 kg)

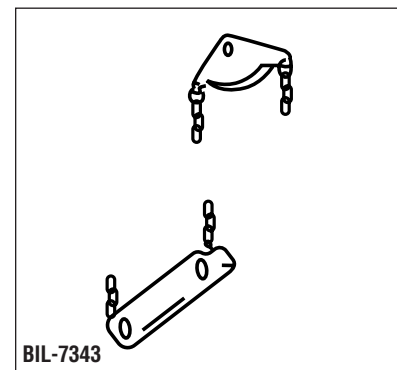
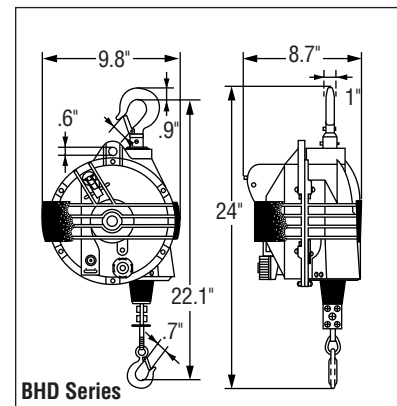
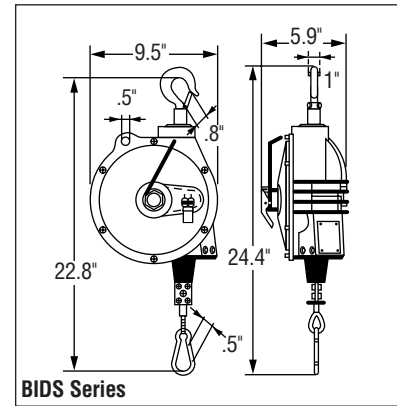
- Safety device prevents load dropping due to spring breakage
- Anti-friction cable guide
- Adjustable stroke limiting device
- Upper rotary suspension
- Safety hook
- Auxiliary safety suspension

Model No.	Capacity	
	lb.	kg
BIDS-7	8.8-15.4	4-7
BIDS-10	15.4-22	7-10
BIDS-14	22-30.8	10-14
BIDS-18	30.8-39.6	14-18
BIDS-22	39.6-48.4	18-22
BIDS-26	48.4-55	22-25

Heavy Duty – Capacity 22 to 143 lbs. (10 to 65 kg)

- Safety device prevents load dropping due to spring breakage
- Upper suspension with rotary safety hook
- Precision guided cable winding prevents jamming
- Anti-friction cable guide
- Manual locking device for instant clamping or release
- Worm screw capacity adjustment
- Spring drum assembly
- Floor controlled locking device available as an option (BIL-7343)

Model No.	Capacity		Weight		Lift	
	lb.	kg	lb.	net-kg	ft.	mm
BHD-15	22-33	10-15	22.7	10.3	6.5	2000
BHD-20	33-44	15-20	23.4	10.6	6.5	2000
BHD-25	44-55	20-30	25.4	11.5	6.5	2000
BHD-30	55-66	25-30	25.4	11.5	6.5	2000
BHD-35	66-77	30-35	26.0	11.8	6.5	2000
BHD-45	77-99	35-45	27.3	12.4	6.5	2000
BHD-55	99-121	45-55	27.6	12.5	6.5	2000
BHD-65	121-143	55-65	30.0	13.6	6.5	2000



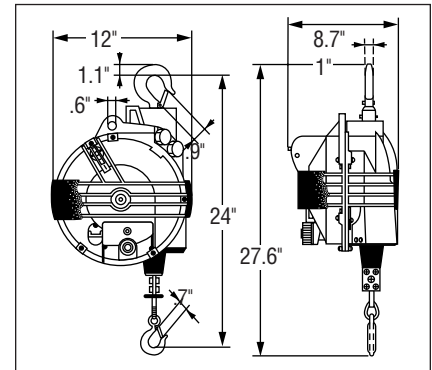
Balancers

Super Duty — Capacity 33 to 363 lbs. (15 to 165 kg)

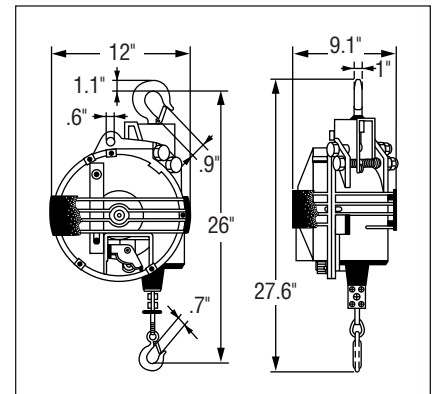
- Safety device prevents load dropping due to spring breakage
- Manual locking device for instant clamping or release
- Anti-friction cable guide
- Cable replacement without balancer disassembly
- Floor controlled locking device available as an option (BIL-7343)
- Precision guided cable winding prevents jamming

- Alignable rotating upper hook
- Worm screw capacity adjustment
- Cable visible for inspection
- Other sizes available on request

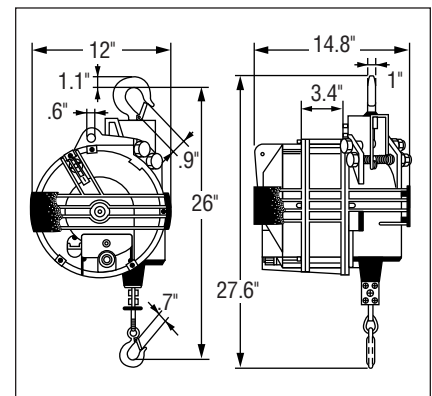
Model No.	Capacity		Weight		Lift	
	lb.	kg	lb.	net-kg	ft.	mm
BSD-20	33-44	15-20	41.9	19.0	8.2	2500
BSD-30	44-66	20-30	43.7	19.8	8.2	2500
BSD-40	66-88	30-40	45.9	20.8	8.2	2500
BSD-50	88-110	40-50	52.7	23.9	8.2	2500
BSD-60	110-132	50-60	56.0	25.4	8.2	2500
BSDL-20	33-44	15-20	42.1	19.1	9.85	3000
BSDL-25	44-55	20-25	43.9	19.9	9.85	3000
BSDL-35	55-77	25-35	46.1	20.9	9.85	3000



Model No.	Capacity		Weight		Lift	
	lb.	kg	lb.	net-kg	ft.	mm
BSD-70	132-154	60-70	59.1	26.8	8.2	2500
BSD-80	154-176	70-80	61.3	27.8	8.2	2500
BSD-90	176-198	80-90	63.5	28.8	8.2	2500
BSDL-45	77-99	35-45	52.5	23.8	9.85	3000
BSDL-50	88-110	40-50	52.7	23.9	9.85	3000
BSDL-60	110-132	50-60	55.8	25.3	9.85	3000
BSDL-70	132-154	60-70	58.9	26.7	9.85	3000
BSDL-80	154-176	70-80	61.7	28.0	9.85	3000
BSDL-90	176-198	80-90	64.0	29.0	9.85	3000



Model No.	Capacity		Weight		Lift	
	lb.	kg	lb.	net-kg	ft.	mm
BSD-100	198-220	90-100	78.5	35.6	8.2	2500
BSD-120	220-265	100-120	85.3	38.7	8.2	2500
BSD-140	265-309	120-140	92.2	41.8	8.2	2500
BSD-150	287-330	130-150	98.1	44.5	8.2	2500
BSD-165	330-363	150-165	106.3	48.2	8.2	2500
BSDL-100	198-220	90-100	81.1	36.8	9.85	3000
BSDL-115	220-254	100-115	85.3	38.7	9.85	3000
BSDL-130	254-286	115-130	88.0	39.9	9.85	3000
BSDL-140	286-309	130-140	94.4	42.8	9.85	3000
BSDL-150	309-330	140-150	100.6	45.6	9.85	3000



Comfort Grips

Made from energy-absorbing Sorbothane®, the IRAX Comfort Grip provides an isolation barrier between your operator and the tool. Sorbothane®, proven effective in absorbing mechanical shocks and reducing vibrations transmitted to the operator, has been tested and recommended for years in medical and athletic applications.

Features

- Nonslip urethane outer skin
- Die cut for precise tool fit
- Also available in sheet form
- Self-stick adhesive backing
- -20°F to 180°F operating range
- .125" thickness



Impactools	Part Number
1702P & 212 Pistol	CG-1702P
231, 2705A Pistol	CG-2705
2707A & 244P Pistol	CG-2707
2906P Pistol	CG-2906
2920P Pistol	CG-2920P
2940P	CG-2940P
1702SB & 212B	CG-1702
1720P & 261P	CG-1720P
1712, 2934, 2940, 2945, 2950, 280	CG-2934BA
For Other Applications	
6" x 8" Sheet with Tape	CG-6X8
42" Roll Seam Tape	CG-ST42

Blow Guns

- Designed to meet OSHA standards
- Available in standard, 6" and 12" lengths
- Cushioned thumb grip

600 Series

Multiple venturi holes maximize air volume while conforming to OSHA's requirements on compressed air.

- Used for cleaning

600-S



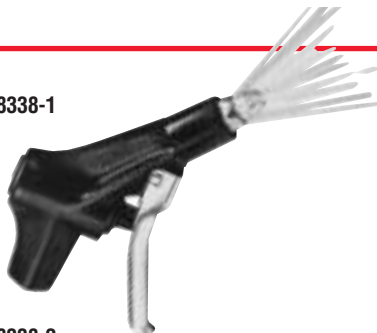
606-S and 612-S



ST206 and ST212



8338-1



8338-2



8440



ST10



ST11



Part Number	Description
600 Series†	
600-S	Standard Safety Blow Gun
600-SB	Booster Safety Blow Gun
606-S	Safety Blow Gun w/6" Extension
612-S	Safety Blow Gun w/ 12" Extension
8338 Series*	
8338-1	Safety Blow Gun with Cone of Air
8338-2	Safety Blow Gun with Rubber Tip
33970	10" Extension Tip for 8338 Series
8440 Series*	
8440	Safety Yellow, Lightweight, Polyester Blow Gun
Safety Extensions – Used on 600 Series	
ST206	6" Safety Extensions
ST212	12" Safety Extensions
Blow Gun Tips – Used on 600 Series	
ST10	Standard Safety Tip
ST11	Safety Air Booster Tip

¼" NPT – Maximum Tip Pressure 30 psig per OSHA Requirement.

* Maximum Inlet Pressure 250 psig.

† Maximum Inlet Pressure 150 psig.

Lubricants

Lubrication

Proper lubrication of air tools is a must to prevent excessive wear of moving parts; to prevent possible rust and corrosion of bare, unprotected surfaces; and to provide smooth operation of motors, impact mechanisms, and other important components. Ingersoll-Rand has a full line of oils and greases which has been tested thoroughly and is recommended without reservation.



Oils Part Number	Oil Number	Quantity	Recommended Use
63Z4	63	4 oz.	Cyclone Wick Lubricant
Chain Lubricant			
Lubri-Link-Green LLG-5		16 oz. Spray Bottle 5 gal.	Lubricant
Class I Lubricant			
10Z4 10P 10G 10G55	10	4 oz. 1 pt. 1 gal. 55 gal.	For Percussive Tools, Assembly Tools and Series CD, CX, CA, TD, TX, TA and TXA Grinders
Class II Lubricant			
50P 50G 62 1 Gal	50 50	1 pt. 1 gal. 1 gal.	Motors of Series 1, 61, 77, 88 and 99 Grinders, Impacttools, Sump Pumps, Vibrators, Saws, Hoists and Winches Hoist & Winch Gear Boxes

Greases Part Number	Grease Number	Quantity	Recommended Use
23-1 LB	23	1 lb	Gearing of Drills
28 1 LB	28	1 lb	Screwdriver Gearing and Clutches; Drills, Grinders, Saws; Tie Tampers
28 8 LB		8 lb	
66 1 LB	66	1 lb	Slow Speed, High Torque Angle Heads
66 8 LB		8 lb	
67-4T	67	4 oz.	High Speed Angle Heads-High Temp (Green)
67-1 LB	67	1 lb	
67 8 LB		8 lb	
68-1 LB	68	1 lb	Coupling Splines and High Speed Angle Heads
68 8 LB	68	8 lb	
70 1 LB	70	1 lb	Large Piston Motor Gear Cases
70 8 LB		8 lb	
80 1 LB	80	1 lb	Bearings of All Sump Pumps
80 8 LB		8 lb	
90-14 oz	90	14 oz.	Offset Gear Heads for Tube Nut Wrenches
100 1 LB	100	1 lb	Impact Mechanisms of Most Impacttools
100 8 LB		8 lb	
105-4T-6 ⁽¹⁾	105	4 oz. tube	Impact Mechanisms of Most Impacttools and for Assembly of 2131 Impact Mechanisms.
105-1 LB		1 lb	
105-8 LB		8 lb	
115-4T-6 ⁽¹⁾	115	4 oz. tube	For General Maintenance on 2131 Impacttool Mechanisms
115-1 LB		1 lb	
150-1 LB	150	1 lb	All Impact Mechanisms with Swinging Weight (900 Series)
150 8 LB		8 lb	

⁽¹⁾ Six tubes of 105 grease

Anti-Freeze	
Part Number	Quantity
10GW	1 gal.

Rock Drill Oil	
Part Number	Quantity
51378701	1 gal. Light Below 20°F or (6.7°C)
51378693	1 gal. Medium 20°-90°F (-6.7° to 32.2°C)

Air Care Kits	
Part Number	General Description
67-LBK1	Angle Grinder Gear
105-LBK1	Impacttools Mechanisms, Greased via rear of tool.
115-LBK1	2131 Series



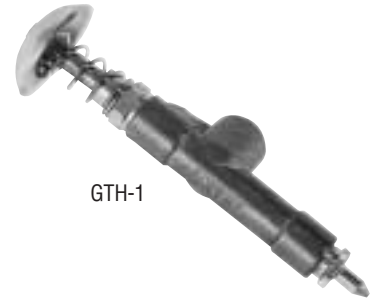
Grease Guns		
Part Number	Quantity	General Description
P25-228	3 oz.	Push-type Hand Gun for Hydraulic-type Fittings
R000A2-228	3 oz.	Push-type Hand Gun for Flush-type Fittings
GTH-1		For Grease Tubes



R000A2-228



P25-228



GTH-1

Tune-Up Kits

Impacttools Tune-Up Kit Number	Tools Used On
1702B-TK2	1701B, 1702B, 2902B, 212B
1702P-TK2	1701P, 1702P, 2902P, 212P
1702SB-TK2	1702SB, 2902SB
1705P-TK2	1705P1
1709P-TK2	1709P
1710B/1710P-TK3	1710B1, 1710P1, 1711B3, 1711P3
1712B/1712P-TK3	1712B2, 1712B4, 1712P1, 280
1720B-TK2	1720B, 261B
1720P-TK2	1720P, 261P
2131P-TK2	2131P
2131-K36	2131 Seal Kit
2131P-THK1	Hammer Kit
221-TK2	221
223-TK2	223
231-TK3	231, 251P
2705-TK3	2705, 251P
2706-TK3	2706

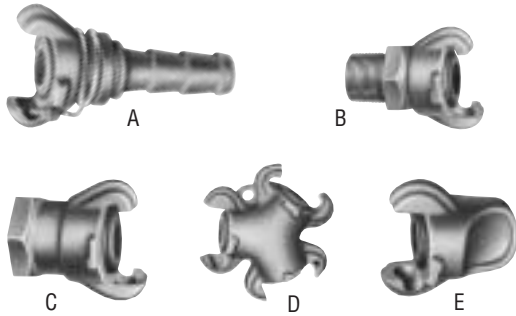
Impacttools Tune-Up Kit Number	Tools Used On
2707-TK2	2707A1, 2707A7, 244P
2903P-TK2	2903P1, 2903P2, 2903P7
2904P-TK2	2904P1, 2904P2, 2904P4
2905P-TK2	2905P1, 2905P7
2906P-TK1	2906P1, 2906P7
2908P-TK2	2908P
2910-TK4	2910B, 2910P
2920B-TK2	2920B
2920P-TK2	2920P
2161-TK2	2161, 2171
2925-TK2	2925
2934-TK3	2934, 2934P
2940-TK3	2940, 2940P
2945-TK2	2945
2950-TK2	2950
5020-TK2	5020, 5020H, 5020T, 5020TH
5040-TK2	5040, 5040T, 5040TD, 5040TDQ

Hose Couplings

Universal Hose Couplers

(full flow non-shutoff; shutoff air supply before disconnecting.)

Gaskets and clip are included with all Universal Couplers.



Universal Coupler Gasket



For use in any Universal Coupler, Part Number UG-100.

Description and Illustration	Malleable Part Number	Bronze Part Number	Hose Size in.
A Universal Hose End	UH-50-M		1/2
	UH-75-M		3/4
	UH-100-M		1
B Universal Male Pipe Threaded End	UM-37-M		3/8
	UM-50-M		1/2
	UM-75-M		3/4
	UM-100-M		1
C Universal Female Pipe Threaded End	UF-50-M		1/2
	UF-75-M		3/4
	UF-100-M		1
D Universal 3-Way	UW-300-B		1/4 to 1
E Universal Dead End	UD-301-M		1/4 to 1

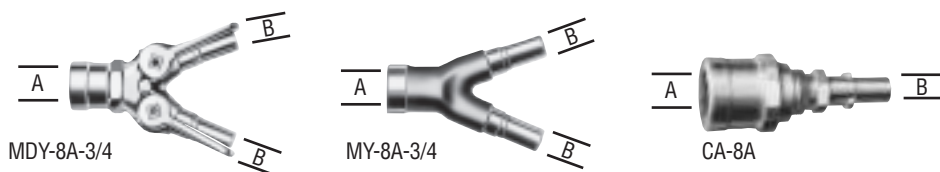
O-Rings for Type A Couplings Part Number	Body Size	Used in Model
BU-948	5/8"	FH, FO, MDY, MY
R4-103	1"	FH, FO, CA

Type A Hose Couplers

(full flow non-shutoff; turn off air supply before disconnecting.)

The IR type "A" couplers come in 5/8" and 1" body sizes. Designed for heavy duty service, the type "A" couplers are simple, sturdy and able to withstand hard usage and abuse without affecting their efficiency. Type "A" couplers and plugs are compatible within the same "Body" size.

Type	Body Size	Part Number	Max. Flow Opening	"A" End Size in.
A 	5/8"	MH-8-1/2	3/8"	1/2" Hose
	5/8"	MH-8-3/4	5/8"	3/4" Hose
	1"	MH-8A-1	13/16"	1" Hose
A 	5/8"	MO-8-1/2	3/8"	1/2" MNPT
	5/8"	MO-8-3/4	5/8"	3/4" MNPT
	1"	MO-8A-1	13/16"	1" MNPT
A 	5/8"	FH-8-1/2	3/8"	1/2" Hose
	5/8"	FH-8-3/4	9/16"	3/4" Hose
	1"	FH-8-1	13/16"	1" Hose
A 	5/8"	FO-8-3/8	3/8"	3/8" MNPT
	5/8"	FO-8-1/2	1/2"	1/2" MNPT
	5/8"	FO-8-3/4	5/8"	3/4" MNPT
	1"	FO-8-1	15/16"	1" MNPT



Adapters Description	Body Size	Part Number	Max. Flow Opening	"A" End Size in.	"B" End Size in.
"Y" Shut off Valve	5/8"	MDY-8A-3/4	1/2"	1/2" Female	1/2" Plug
"Y" Adapter	5/8"	MY-8A-3/4	1/2"	1/2" Female	1/2" Plug
1" to 1/2" Reducer	1"	CA-8A*	5/8"	1" Female	1/2" Plug

*CA-8A Reduces from the 1" body size down to a 3/4" NPT female thread. It comes with one MO-8-1/2 screwed into the "B" end.

Swivel-It!™

Introducing the *NEW*, non-marring, composite *Swivel-It* from Ingersoll-Rand. The *NEW Swivel-It* is made from non-marring, high impact, chemical resistant composite material. The *NEW* composite *Swivel-It* is available in 1/4" NPT and provides 32% more air flow with 33 scfm.

The adjustable 1/4" NPT *Swivel-It* as well as the 3/8" NPT and 1/2" NPT are currently available only in aluminum. Look for additional *Swivel-It* models available in composite.

The *Swivel-It* is designed to reduce operator fatigue by allowing the air hose to hang straight to the floor, enhancing maneuverability and increasing operator comfort and productivity. For use with drills, screwdrivers, impact tools, angle wrenches, grinders, polishers, and sanders. Not for use with percussive tools.



ASC-1/4

Thread Size	Part Number	Air Flow Range
1/4"	ASC-1/4 ⁽²⁾	0-25 cfm Adjustable
1/4" ⁽¹⁾	ASA-1/4	0-25 cfm Non-Marring
3/8"	AS-3/8	0-45 cfm Standard
1/2"	AS-1/2	0-65 cfm Standard

⁽¹⁾ Adjustable air flow

⁽²⁾ Composite

PR Series (Quick Connect Composite Safety Couplers)



PR Couplers IR Part	Description	Avg. Flow CFM
PRSGF22	1/4" FNPT 1/4" Body, Safety Coupler	32
PRSGF23	3/8" FNPT 1/4" Body, Safety Coupler	32
PRSGF33	3/8" FNPT 3/8" Body, Safety Coupler	64
PRSGF34	1/2" FNPT 3/8" Body, Safety Coupler	64
PRSGM22	1/4" MNPT 1/4" Body, Safety Coupler	32
PRSGM23	3/8" MNPT 1/4" Body, Safety Coupler	32
PRSGM33	3/8" MNPT 3/8" Body, Safety Coupler	64
PRSGM34	1/2" MNPT 3/8" Body, Safety Coupler	64
PRSGH22	1/4" ID Hose 1/4" Body, Safety Coupler	32
PRSGH23	3/8" ID Hose 1/4" Body, Safety Coupler	32
PRSGH33	3/8" ID Hose 3/8" Body, Safety Coupler	64
PRSGH34	1/2" ID Hose 3/8" Body, Safety Coupler	64

PR Connectors IR Part	Description
PRPF22	1/4" FNPT 1/4" Body, Connector
PRPF23	3/8" FNPT 1/4" Body, Connector
PRPF32	1/4" FNPT 3/8" Body, Connector
PRPF33	3/8" FNPT 3/8" Body, Connector
PRPM22	1/4" MNPT 1/4" Body, Connector
PRPM23	3/8" MNPT 1/4" Body, Connector
PRPM32	1/4" MNPT 3/8" Body, Connector
PRPM33	3/8" MNPT 3/8" Body, Connector
PRPH22	1/4" ID Hose 1/4" Body, Connector
PRPH23	3/8" ID Hose 1/4" Body, Connector
PRPH33	3/8" ID Hose 3/8" Body, Connector
PRPH34	1/2" ID Hose 3/8" Body, Connector

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1702SB1	3/8" CLASS IMPACTOOL	5	2920B1	3/4" CLASS IMPACTOOL	10	2950B7	1 1/2" CLASS IMPACTOOL	14
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1720B3	3/4" CLASS IMPACTOOL (1")	10	2925P3	3/4" CLASS IMPACTOOL	10	5020TAL1	TORQUE CONTROL IMPACTOOL	19
1720P1	3/4" CLASS IMPACTOOL	10	2925RBP1	3/4" CLASS IMPACTOOL	10	5020TDQ	TORQUE CONTROL IMPACTOOL	19
1720P3	3/4" CLASS IMPACTOOL (1")	10	2925RBP3	3/4" CLASS IMPACTOOL	10	5040TAH1	TORQUE CONTROL IMPACTOOL	19
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2903P2	3/8" CLASS IMPACTOOL	5	2940P2	1" CLASS IMPACTOOL	13	8055	ELECTRIC IMPACTOOL	22
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