Ingersoll Rand

Vehicle Services



irtools.com

If your tools aren't working, neither are you



For more than 100 years, professional technicians have relied on Ingersoll Rand for quality and performance on the toughest jobs. Our advanced engineering and manufacturing have set a standard of excellence often copied, but never matched. So, don't settle for less. Count on genuine Ingersoll Rand tools, accessories, and equipment.

You can depend on Ingersoll Rand

- Best-in-class power and durability
- Improved ease of use
- Reduced downtime
- World-wide service network

Ingersoll Rand

HAMMERHEAD

LOW PROFILE IMPACTOOL™



2015MAX

From Ingersoll Rand, the company that invented the Impactool in 1934, comes a revolutionary product that is unlike any other on the market today. The Hammerhead Low-Profile Impactool offers the power of an impact with the reach of a ratchet, and it's going to change the way you work. Say goodbye to awkward extensions and swivel sockets, and watch your productivity soar as you conquer tasks in minutes that once took you hours.

"It's a knuckle saver… It gets into tight spots. You're not taking out half your tool box to get the job done… It' saves time."

- Joe Illan
Community Auto Repair
Union, New Jersey



AWARD-WINNING INNOVATION

TOP 20 TOOLS MOTOR 2010

2010 SEMA GLOBAL MEDIA AWARDS WINNER

Professional TOOL & EQUIPMENT NEWS INNOVATION AWARDS 2011 NOMINEE

You Tube Come check out more customer testimonials on our youtube channel at:

www.youtube.com/irtoolscom

IR Ingersoll Rand

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Ingersoll Rand air Impactools are the tools professional mechanics use when nothing else will do the job. They'll break loose a frozen bolt when others can't make it budge. With fewer working parts, simplified maintenance, and less wasted energy, Ingersoll Rand air Impactools are the finest examples of delivering more power to professional mechanics.



Air Ratchets and Accessories 17

Compact. Convenient. Real time-savers. Air ratchets have become essential elements in every serious toolbox. Ingersoll Rand ratchets combine access and power to make jobs more productive and profitable, and feature unique qualities you won't find anywhere else.



Sockets 21

Backed by an extensive heritage of reliability and innovation, Ingersoll Rand introduces a comprehensive line of industrial-grade sockets that really make an impact.



Air Grinders, Cutting Tools and Accessories..... 28

With high-strength steels, advanced plastics, and new composite materials in today's cars and trucks, you need versatile tools for precise, controlled cutting. Ingersoll Rand cutting tools are the reliable choice of auto body and repair shops, used for everything from muffler and exhaust work to sunroof installations and body repairs.



Air Finishing Tools and Accessories..... 35

Ingersoll Rand has the most complete line of air finishing tools. Sanders, polishers, and buffers, from traditional styles for heavy material removal to the newest models for excellent control and brilliant surfaces. All Ingersoll Rand finishing tools are designed for long-life and swirl-free finishes.



Air Drills, Screwdrivers, and Accessories 41

Ingersoll Rand air drills have industrial-grade chucks and keyless chuck versions that are extra tough for drilling, sawing, valve guide reaming, cylinder honing, and wire brushing. They are powerful, efficient, and durable with smooth, quiet operation.



Air Hammers and Accessories 45

Our air hammers are designed so you can let the tool do the work, whether it's cutting, punching, chipping, or scraping. Each air hammer comes with a coil spring retainer for fast and easy chisel changes. You can also buy a five-piece chisel set, or get an Ingersoll Rand air hammer kit which includes both the hammer and the chisel set.

Mini Air Tools and Accessories 48

Ingersoll Rand offers a full line of mini air tools — 1/4″ & 3/8″ mini impactool, mini random orbital sander, mini polisher, mini surface prep sander, and mini drill driver. All mini tools are also available in a kit.



Air Compressors and System Components 52

For more than 75 years, Ingersoll Rand has been the world leader in air compressors and air system components. We understand rising energy costs and reduced margins require increased reliability and efficiency from not only your air compressor, but your entire air system. Simply stated, your air system is much more than an air compressor. It's the complete system — the piping, filters, dryers, drains, hoses, valves, and point-of-use tools.



Lubrication Equipment and Accessories 67

Ingersoll Rand lubrication equipment reflects the same high standards of performance as our tools and air compressors, with a full range of products that will keep all types of fluids moving efficiently. These products are the result of more than 70 years of experience in pump and air system technology, and include models specifically designed for popular applications.



Accessories 79

We offer an extensive line of accessories to match our tools with the requirements of every job. These accessories put the reliability and quality of Ingersoll Rand behind every job you do.



Pullers and Hoists 90

Ingersoll Rand pullers and hoists are designed to handle tough pulling or lifting jobs with minimal effort by the operator. Whether it's a low-, medium-, or heavy-duty job, you can trust our pullers and hoists to carry the load safely and easily.



Air Impactools™



There are good reasons why Ingersoll Rand pneumatic Impactools are so highly regarded by professionals, especially in the automotive service industry. With decades of proven engineering expertise behind them, our Impactools deliver rugged reliability and power in durable, compact packages. Ingersoll Rand pneumatic Impactools offer the best power-to-weight ratios available on the market.



Model	Max Torque ft-lb (Nm)	Working Torque Range ft-lb (Nm)	Free Speed rpm	Weight lb (kg)	Length in (mm)	Average Air Consumption cfm (L/min)	Air Consumption @ Load cfm (L/min)	Sound Pressure / Power dBA	Air Inlet NPTF in	Min Hose Size in (mm)
1/4" MINI IMPACTOOL										
2101XP	50 (68)	25 – 40 (34 – 54)	11,000	1.4 (0.6)	6.3" (160)	1.8 (50)	18.2 (516)	81.8 /92.8	1/4"	3/8" (10)
2101XP-QC*	50 (68)	25 – 40 (34 – 54)	11,000	1.4 (0.6)	6.8" (173)	1.8 (50)	18.2 (516)	81.8 /92.8	1/4"	3/8" (10)
3/8" MINI IMPACTOOL										
2102XP*	50 (68)	25 – 40 (34 – 54)	11,000	1.4 (0.6)	6.3" (160)	1.8 (50)	18.2 (516)	81.8 /92.8	1/4"	3/8" (10)
3/8" SQUARE DRIVE										
211*	150 (204)	20 – 125 (27 – 170)	10,000	2.40 (1.09)	6.6" (168)	2.5 (71)	11 (311)	104 / 117	1/4"	3/8" (10)
216B	**200 (271)**	**15 – 160 (20 – 217)**	**8,500**	**2.8 (1.27)**	**7.7 (196)**	**3 (85)**	**19 (538)**	**94.8/105.8**	**¼ (6)**	**3/8 (10)**
212*	150 (205)	20 – 125 (27 – 170)	11,500	2.89 (1.31)	6" (152)	2.5 (71)	11 (311)	97 / 108	1/4"	3/8" (10)
2015MAX	**180 (244)**	**45 – 160 (61 – 217)**	**9,000**	**3.4 (1.54)**	**13.1 (332)**	**3.5 (99)**	**19 (538)**	**96.6/107.6**	**1/4"**	**3/8" (10)**
2115QTiMAX*	300 (407)	25 – 230 (34 – 312)	15,000	2.49 (1.13)	5.95" (151)	4 (113)	17 (481)	89.7 / 100.7	1/4"	3/8" (10)
2115TiMAX	300 (407)	25 – 230 (34 – 312)	15,000	2.48 (1.12)	5.95" (151)	4 (113)	17 (481)	96.6 / 107.6	1/4"	3/8" (10)

**Not pictured.*

2101XP

1/4" Mini Impactool

Whether you're working in tight spaces or doing finely detailed finish work, our mini tools deliver the power, versatility, and durability you want, in a conveniently smaller size

- Hard-hitting 5-vane motor delivers smooth and robust performance
- Easily accessible forward / reverse switch for one-handed operation



Fastens conveniently in hard-to-reach places

2101K

1/4" Mini Impactool Kit

- Includes 10-piece 1/4" socket set

216B

In-line Air Impactool

This durable in-line wrench is handy for the cramped spaces common to small engine repair and other general service work. The butterfly-style throttle valve lets you adjust speed smoothly in either direction in one continuous motion.



- 175 ft-lb max torque
- Contoured composite butterfly throttle for comfort and control
- Recessed regulator dial

2015MAX

Air Impactool

This revolutionary product is unlike any other on the market today. The Hammerhead Low Profile Impactool offers the power and speed of an impact with the reach of a ratchet. The combination of MAX power, MAX control, and MAX access now allows you to use an Ingersoll Rand Impactool for virtually any application. Say goodbye to awkward extensions and swivel sockets, and watch your productivity soar as you conquer tasks in minutes that once took you hours.



MAX Power	**With 180 ft-lb max torque and 7,100 rpm, Hammerhead offers more than twice the power of the leading competitor's ratchet.**
MAX Control	**A feather-touch trigger, two-position forward power regulator, and conveniently located forward/reverse ring provide precise control.**
MAX Access	**A head height of under 2" and reactionless torque allow you to safely use this powerful tool in tight spaces.**

2115TiMAX

Air Impactool

The new 2115TiMAX delivers best in class performance for a tool less than six inches long and weighing less than two and a half pounds. The minimal size of this tool will allow greater access to tight spaces, while the minimal weight will reduce operator fatigue all while still delivering MAX performance.



MAX Power	**300 ft-lbs max power in reverse – that's best in class power performance**
MAX Control	**Enhanced power settings, a feather touch trigger and patented push button forward/ reverse provide maximum control**
MAX Reliability	**FREE two-year limited warranty with tool registration**

Best power-to-weight ratio in its class

1/2″ Impactools

Model	Max Torque ft-lb (Nm)	Working Torque Range ft-lb (Nm)	Free Speed rpm	Weight lb (kg)	Length in (mm)	Average Air Consumption cfm (L/min)	Air Consumption @ Load cfm (L/min)	Sound Pressure / Power dBA	Air Inlet NPTF in	Min Hose Size in (mm)
1/2″ SQUARE DRIVE										
231C	600 (813)**	25 – 350 (34 – 475)	8,000	5.8 (2.63)	7.3″ (185)	4.2 (119)	22 (623)	99 / 110	1/4″	3/8″ (10)
236*	450 (610)	25 – 200 (34 – 271)	7,400	5.3 (2.4)	7.1″ (180.3)	4.3 (122)	24 (680)	90.3 / 101.3	1/4″	3/8″ (10)
244A	500 (678)	40 – 350 (54 – 475)	7,000	6 (2.72)	7.3″ (185)	5.4 (153)	21 (595)	93 / 104	1/4″	3/8″ (10)
244A-2*	500 (678)	40 – 350 (54 – 475)	7,000	6.3 (2.85)	9.5″ (241)	5.4 (153)	21 (595)	93 / 104	1/4″	3/8″ (10)
231HA*	590 (800)**	25 – 350 (34 – 475)	8,000	5.8 (2.63)	7.3″ (185)	4.2 (119)	22 (623)	94 / 105	1/4″	3/8″ (10)
231HA-2	590 (800)**	25 – 350 (34 – 475)	8,000	6.1 (2.76)	9.1″ (236)	4.2 (119)	22 (623)	94 / 105	1/4″	3/8″ (10)

**Not pictured.*
***Reverse bias.*

231C

Air Impactool



The classic 231C is the most popular tool in its class. Introduced over 25 years ago and continuously refined, it offers the sheer power and performance features to tackle the toughest jobs with ease — as well as proven durability and economy.

- Adjustable power regulator
- Pressure-fed lubrication
- Easy-to-service 2-piece construction

The most popular Impactool in the world

244A

Air Impactool



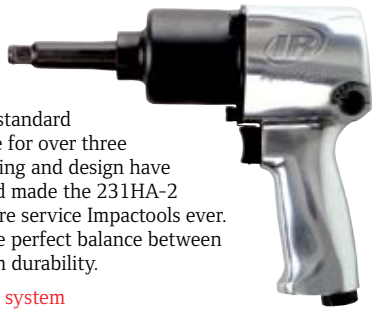
Bring out the "big gun" for tire-changing, shock and spring work, front-end work, and other heavy automotive and truck work. The impact mechanism pumps out 500 ft-lb of torque at a free speed of 7,000 rpm to get the job done fast.

- Powerful with smooth, balanced blows
- Pressure-fed lubrication system automatically greases the impact mechanism
- Non-biased 500 ft-lb in forward and reverse



231HA-2

Extended Anvil Air Impactool

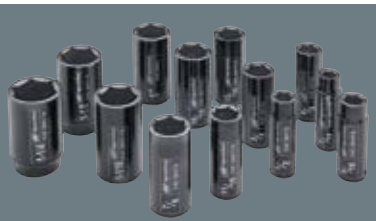


The 231HA-2 has set the standard for Impactool performance for over three decades. Refined engineering and design have perfected performance and made the 231HA-2 one of the most popular tire service Impactools ever. This elite mechanism is the perfect balance between superior power and proven durability.

- Pressure-fed lubrication system
- Handle exhaust directs air away from user
- Adjustable power regulation

Top choice in tire service centers

Sockets



Genuine Ingersoll Rand Impact sockets are built with top-quality materials for performance and durability. For more information, turn to the sockets section — starting on page 21. See pages 14 – 16 for all other Impactool accessories.

Model	Max Torque ft-lb (Nm)	Working Torque Range ft-lb (Nm)	Free Speed rpm	Weight lb (kg)	Length in (mm)	Average Air Consumption cfm (L/min)	Air Consumption @ Load cfm (L/min)	Sound Pressure / Power dBA	Air Inlet NPTF in	Min Hose Size in (mm)
1/2″ SQUARE DRIVE										
2025MAX*	180 (244)	45-160 (61-217)	9,000	3.4 (1.54)	13.1 (332)	3.5 (99)	19 (538)	96.6/107.6	1/4″	3/8″ (10)
2125QTiMAX*	332 (450)**	25 – 251 (34 – 340)	15,000	2.51 (1.14)	6.1″ (155)	4 (113)	17 (481)	89.7 / 100.7	1/4″	3/8″ (10)
2130	550 (745)**	50 – 500 (68 – 680)	9,500	4.2 (1.9)	7.25″ (184)	4.4 (124.6)	22 (623)	96.6 / 109.6	1/4″	3/8″ (10)
2130-2*	550 (745)**	50 – 500 (68 – 680)	9,500	4.6 (2.05)	9.25″ (235)	4.4 (124.6)	22 (623)	96.6 / 109.6	1/4″	3/8″ (10)
232TGSL	625 (847)**	40 – 400 (54 – 544)	10,000	6 (2.72)	7.3″ (185)	5.4 (153)	23 (651)	105 / 109.3	1/4″	3/8″ (10)

*Not pictured.
**Reverse bias.

2130

Air Impactool

The 2130 has all the performance features you have come to expect from the Ingersoll Rand family of Impactools. This Impactool features a powerful twin-hammer mechanism and a composite housing, providing superior ergonomics in a lightweight package.

- 550 ft-lb maximum torque
- Full-stroke tease throttle
- Multi-position power management



Ingersoll Rand power and durability at an exceptional value

232TGSL

ThunderGun® Street Legal™ Air Impactool

As close as you can get to the real racing tools used by 100 percent of NASCAR® pit crews. It features 625 ft-lb of torque in reverse, with 10,000 rpm to deliver pit crew power, speed, and durability.

- Our fastest 1/2″ Impactool
- 10,000 rpm for lightning fast removal is best-in-class
- 625 ft-lb of torque





Impact Boots



Even the industry's hardest-working Impactools could use added protection from the rigors of the jobsite. Our impact boots can be found on page 16. For a complete listing of Impactool accessories, see pages 14 – 16.

1/2″ Impactools

Model	Drive in	Max Torque (reverse) ft-lb (Nm)	Nut Busting Torque ft-lb (Nm)	Forward Torque Range ft-lb (Nm)	Blows per minute	Free Speed rpm	Sound Pressure / Power dBA	Net Weight lb (kg)	Overall Length in (mm)	Average Air Consumption cfm (L/min)	Air Inlet NPTF in	Min Hose Size in (mm)
1/2″ SQUARE DRIVE												
2135TiMAX	1/2″	780 (1054)	1,100 (1486)	50 – 550 (68 – 746)	1,250	9,800	109	3.95 (1.79)	7.35 (186.7)	5 (142)	1/4″	3/8″ (10)
2135Ti-2MAX*	1/2″	780 (1054)	1,100 (1486)	50 – 550 (68 – 746)	1,250	9,800	109	4.4 (1.99)	9.47 (240.5)	5 (142)	1/4″	3/8″ (10)
2135QTiMAX*	1/2″	780 (1054)	1,100 (1486)	50 – 550 (68 – 746)	1,250	9,800	86	4.05 (1.83)	7.35 (186.7)	5 (142)	1/4″	3/8″ (10)
2135QTi-2MAX*	1/2″	780 (1054)	1,100 (1486)	50 – 550 (68 – 746)	1,250	9,800	86	4.5 (2.04)	9.47 (240.5)	5 (142)	1/4″	3/8″ (10)

*Not pictured.
**Reverse bias.

2135TiMAX

Air Impact Wrench

The Titanium 2135TiMAX delivers 1,100 ft-lb of nut-busting torque in a gun that weighs just 3.95 lb. The 7-vane power plant drives enough torque to break away a nut tightened to over 1,100 ft-lb in under six seconds.

MAX Power	**780 ft-lb maximum reverse torque from a tool weighing less than 4 lb. — that's the best power-to-weight ratio in its class**
MAX Control	**Feather-touch trigger, wider range of power regulator settings in forward, always max power in reverse, patented one-hand forward / reverse control**
MAX Reliability	**Free two-year limited warranty with tool registration**



The best power-to-weight ratio in its class



Quiet Tools

All the power, without all the noise.

At Ingersoll Rand, we don't just stand behind our tools; we're equally devoted to the people who use them. We're constantly looking for ways to make your job easier.

With the innovative line of Quiet Tools from Ingersoll Rand, you get durable, reliable tools that deliver the power you need, but with less noise. Our patented Quiet Tool technology reduces the sound levels caused by air pulsating through the impact motor, without compromising our best-in-class torque levels.

Power and performance with less noise? Sure sounds good to us.

Models: 2115QTiMAX, 2125QTiMAX, 2135QTiMAX, 2135QTi-2MAX

Impactool Tune-up Kits



Extend the life of your tools. Even the most durable and reliable tools need preventive maintenance. Our Impactool tune-up kits and full line of Impactool accessories can be found on pages 14 – 16.

3/4″ Impactools

Model	Max Torque ft-lb (Nm)	Working Torque Range ft-lb (Nm)	Free Speed rpm	Weight lb (kg)	Length in (mm)	Average Air Consumption cfm (L/min)	Air Consumption @ Load cfm (L/min)	Sound Pressure / Power dBA	Air Inlet NPTF in	Min Hose Size in (mm)
3/4″ SQUARE DRIVE										
259	1050 (1424)	200 – 800 (271 – 1085)	6,000	8.8 (4.0)	8.6 (218)	8 (227)	30 (850)	91.6/102.6	3/8 ″	3/8 (10)
261	1,100 (1491)	200 – 900 (272 – 1224)	5,500	12.4 (5.62)	8.8″ (224)	9.5 (269)	38 (1076)	98.1 / 109.1	3/8″	1/2″ (13)
261-3*	1,100 (1491)	200 – 900 (272 – 1224)	5,500	13 (5.9)	11.8″ (300)	9.5 (269)	38 (1076)	98.1 / 109.1	3/8″	1/2″ (13)
261-6*	1,100 (1491)	200 – 900 (272 – 1224)	5,500	13.7 (6.21)	14.8″ (376)	9.5 (269)	38 (1076)	98.1 / 109.1	3/8″	1/2″ (13)
2141	1,200 (1627)	200 – 900 (272 – 1224)	8,000	7 (3.2)	8.2″ (208)	9.5 (269)	40 (1133)	99.9 / 110.9	3/8″	1/2″ (13)
2161XP	1,250 (1695)	300 – 1,000 (459 –1654)	6,000	11.8 (5.35)	8.5″ (216)	10 (283)	46 (1303)	98 / 111	3/8″	1/2″ (13)
2161XP-6*	1,250 (1695)	300 – 1,000 (459 –1654)	6,000	13.1 (5.95)	14.5″ (368)	10 (283)	46 (1303)	98 / 111	3/8″	1/2″ (13)

**Not pictured.*

261

Air Impactool



The highly regarded 261 model combines compact size at only 8.8″ long with high output, which makes it perfect for everything from spring work to pinion nut and track pad removal and major engine teardowns.

- Jumbo hammer mechanism
- Up to 1,100 ft-lb of torque
- Pressure-fed lube system for trouble-free performance and longer life

For optional power regulator, please order part #2920-K329.

259

Air Impactool



The new 259 3/4″ Impactool™ delivers the power, durability, reliability, and value to get the job done right. It offers impressive performance, value, and convenience not found in competitive models.

- Smaller and up to 2 pounds (.91 kg) lighter than other 3/4″ impacts in its class
- Rocking dog impact mechanism works well on a wide range of air pressures
- Silenced exhaust reduces tool noise while in use

2141

Air Impactool



The 2141 delivers the best power-to-weight ratio and best size ratio in its class. The 2141 also provides great maneuverability for tight, awkward spaces.

- 1,200 ft-lb maximum torque
- Weighs just 7 lb
- Contoured professional touch trigger and ergonomically designed handle for increased comfort

The best power-to-weight ratio in its class

2161XP

Air Impactool



The 2161XP combines a 6-vane, high-output air motor, through-bolt construction, ergonomic handle and housing design to create an Impactool that offers increased power and durability.

- Most powerful 3/4″ Impactool in the industry
- Maximum torque of 1,250 ft-lb
- 3-position power regulator and 360º swivel inlet

1″ Impactools

Model	Max Torque ft-lb (Nm)	Working Torque Range ft-lb (Nm)	Free Speed rpm	Weight lb (kg)	Length in (mm)	Average Air Consumption cfm (L/min)	Air Consumption @ Load cfm (L/min)	Sound Pressure / Power dBA	Air Inlet NPTF in	Min Hose Size in (mm)
1″ SQUARE DRIVE										
271	1,100 (1491)	200 – 900 (272 – 1224)	5,500	12.5 (5.67)	8.9″ (226)	9.5 (269)	39 (1104)	98.1 / 109.1	3/8″	1/2″ (13)
285B*	1,475 (2000)	100 – 900 (136 – 1220)	5,000	24.6 (11.16)	13.2″ (335)	10 (283)	37 (1048)	103.4 / 114.4	1/2″	1/2″ (13)
285B-6	1,475 (2000)	100 – 900 (136 – 1220)	5,000	27.8 (12.61)	20.1″ (511)	10 (283)	37 (1048)	103.4 / 114.4	1/2″	1/2″ (13)
280* 122.11/2″	1/2″ (13)	1,600 (2169)150 – 1,000 (204 – 1360)		6,000	22 (9.98)	13″ (330)	10 (283)	55 (1557)	109.1 /	
280-6	1,600 (2169)	150 – 1,000 (204 – 1360)	6,000	23.8 (10.80)	18.5″ (470)	10 (283)	55 (1557)	109.1 / 122.1	1/2″	1/2″ (13)
#5 SPLINE DRIVE										
285B-S6*	1,475 (2000)	100 – 900 (136 – 1220)	5,000	27.8 (12.61)	20.1″ (511)	10 (283)	37 (1048)	103.4 / 114.4	1/2″	1/2″ (13)
280-S-6*	1,600 (2169)	150 – 1,000 (204 – 1360)	6,000	23.8 (10.80)	18.5″ (470)	10 (283)	55 (1557)	109.1 / 122.1	1/2″	1/2″ (13)

*Not pictured.

271

Air Impactool

The shortest 1″ air Impactool is also one of the most powerful. It combines a compact size with high power output, making it ideal for tire changing, spring work, pinion nut removal, tractor pad removal, and shock work.



- Impressive power-to-size ratio
- Up to 1,100 ft-lb of torque
- Pressure-fed lube system for longer service life

280-6

Air Impactool

High-production truck tire changing requires the brute force only this jumbo hammer impact mechanism delivers. Reach into deep truck wheels easily with this 6″ extended anvil wrench, designed for high-production truck tire changing.

- 1,600 ft-lb of maximum torque
- Jumbo power mechanism for power and durability
- In-handle exhaust directs air away from user



285B-6

Air Impactool

The 285B models combine exceptional power, control and durability. They deliver 1,770 ft-lb of maximum torque @ 120 psi, with 5,250 rpm free speed and a high-efficiency, 6-vane motor. The swept-back 285B handle provides excellent maneuverability.

- Delivers 1,475 ft-lb maximum torque
- Fast-torque™ delivers 1,000 ft-lb in 2 seconds
- Improved feather touch trigger



Enhanced durability for longer life



Model	Max Torque ft-lb (Nm)	Working Torque Range ft-lb (Nm)	Free Speed rpm	Weight lb (kg)	Length in (mm)	Average Air Consumption cfm (L/min)	Air Consumption @ Load cfm (L/min)	Sound Pressure / Power dBA	Air Inlet NPTF in	Min Hose Size in (mm)
1″ SQUARE DRIVE										
2171XP	1,250 (1695)	300 – 1000 (459 – 1654)	6,000	13.1 (5.95)	12.5″ (318)	10 (282)	46 (1303)	98 / 111	3/8″	1/2″ (13)
295A	1,475 (2000)	100 – 900 (136 – 1220)	5,000	22.3 (10.12)	10.5″ (267)	10 (283)	45 (1274)	101.1 / 112.1	1/2″	1/2″ (13)
290	1,600 (2169)	150 – 1,000 (203 – 1356)	6,000	21.9 (9.93)	9.75″ (248)	10 (283)	60 (1699)	104.6 / 117.6	1/2″	3/4″ (19)
2190Ti*	1,650 (2237)	150 – 1,000 (203 – 1627)	6,800	14 (6.4)	15.38″ (391)	12 (336)	58 (1642)	103.8 / 116.8	1/2″	1/2″ (13)
2190Ti-6	1,650 (2237)	150 – 1,000 (203 – 1627)	6,800	15.5 (7.03)	21.48″ (546)	12 (336)	58 (1642)	103.8 / 116.8	1/2″	1/2″ (13)
2190DTi-6*	1,650 (2237)	150 – 1,000 (203 – 1627)	6,800	16 (7.3)	21.48″ (546)	12 (336)	58 (1642)	103.8 / 116.8	3/8″	1/2″ (13)
293*	2,000 (2712)	1,000 – 1,600 (1360 – 2176)	3,500	22.8 (10.34)	11.3″ (287)	12 (340)	64 (1812)	90.3 / 103.3	1/2″	3/4″ (19)
#5 SPLINE DRIVE										
290-S*	1,600 (2169)	150 – 1,000 (203 – 1356)	6,000	21.9 (9.93)	10″ (254)	10 (283)	60 (1699)	104.6 / 117.6	1/2″	3/4″ (19)
293-S*	2,000 (2712)	1,000 – 1,600 (1360 – 2176)	3,500	22.8 (10.34)	11.3″ (287)	12 (340)	64 (1812)	90.3 / 103.3	1/2″	3/4″ (19)

**Not pictured.*

2171XP

Air Impactool



The 2171XP combines a 6-vane high output air motor, through-bolt construction, ergonomic handle and housing design to create an Impactool that offers increased power and durability.

- Maximum torque of 1,250 ft-lb
- 3-position power regulator
- 360º swivel inlet

290

Air Impactool



Designed for getting into cramped spaces with big power, the 290 has a 3-way adjustable handle. It's a good choice for spring work, tractor pads, bus maintenance, off-road equipment, and farm equipment.

- Up to 1,600 ft-lb of torque

For optional thread-on muffler, order part #2910-674.

2190Ti-6

Air Impactool



Designed specifically for high-volume fleet service, the revolutionary chainsaw-grip handle provides comfortable control to the operator. The 2190Ti-6 delivers an impressive 1,650 ft-lb of maximum torque in a lightweight package and comes standard with a 6″ extended anvil.

- 1,650 ft-lb of maximum torque
- Weighs 15.5 lb
- Extended robust anvil bushing provides long life under heavy shop usage

295A

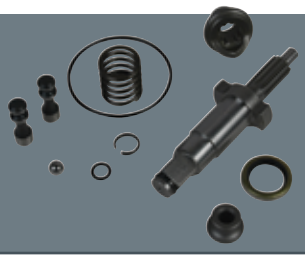
Air Impactool



The 295A model combines exceptional power, control, and durability. It delivers 1,770 ft-lb of maximum torque @ 120 psi (1,475 ft-lb @ 90 psi), with 5,250 rpm free speed and a high-efficiency, 6-vane motor. The top-mounted 295A dead handle provides great leverage for difficult underbody work.

- Delivers 1,770 ft-lb maximum torque
- Fast-torque™ delivers 1,000 ft-lb in 2 seconds
- Improved feather touch trigger
- Rubber boots protect tools from exterior damage

Impactool Hammer Kit

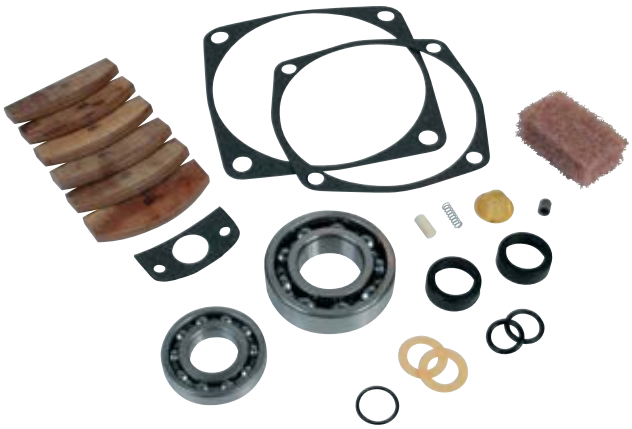


See pages 14 – 16 for our full line of Impactool accessories.

Impactool Tune-up Kits

Extend the life of your tools with genuine Ingersoll Rand repair kits and replacement parts. Every Ingersoll Rand part is specifically designed to enhance durability and improve the productivity of your tool.

Part Number	For Use With
3/8″ IMPACTOOL TUNE-UP KITS	
2015-TK	2015MAX
211-TK2	211
212-TK2	212
2115-TK2	2115TiMAX Series
1/2″ IMPACTOOL TUNE-UP KITS	
2015-TK	2025MAX
2130-TK1	2130, 2130-2
2135-TK2	2135 Series, 2135TiMAX Series
236-TK1	236
231HP-TK1	231HA, 231HA-2
231-TK2	2141
231-TK3	231C
244-TK2	244A, 244A-2





Part Number	For Use With
3/4″ IMPACTOOL TUNE-UP KITS	
259-TK1	259
261-TK2	261, 261-3, 261-6, 271
2141-TK1	2141
2161-TK2	2161XP, 2161XP-6
1″ IMPACTOOL TUNE-UP KITS	
280-TK2	280, 280-6, 280-S6
285B-TK1	285B, 285B-6, 285B-S6
295A-TK1	295A
2190-TK1	2190Ti, 2190DTi-6, 2190Ti-6
290-TK2	290

Impactool Hammer and Anvil Kits

Part Number	For Use With
3/8″ IMPACTOOL HAMMER AND ANVIL KITS	
2112-THK1	2112
2115-THK2	2115TiMAX Series
1/2″ IMPACTOOL HAMMER AND ANVIL KITS	
2135-THK1	2135TiMAX, 2135QTiMAX
2135-2-THK1	2135Ti-2MAX, 2135QTi-2MAX
231B-THK1	231C, 231HA, 244A
231B-THK2	231HA-2, 244A-2
231C-THK1	231C
3/4″ IMPACTOOL HAMMER AND ANVIL KITS	
261-THK1	261
2141-THK1	2141
1″ IMPACTOOL HAMMER AND ANVIL KITS	
2190-THK1	2190Ti
285A-6-THK1	285B
2190-6-THK1	2190Ti-6, 2190DTi-6







If your tools aren't working, neither are you! Protect your tools with genuine Ingersoll Rand parts and services.

Air Tool Lubricants

Regular tool lubrication will keep your tool running at peak performance for a longer time. Our full line of air tool lubricants can be found on page 96.

Ergonomic Accessories

Ingersoll Rand offers a handy line of ergonomic accessories that enable you to work more safely and more comfortably. Our tool boots absorb vibrations and protect the tool from external damage. Ingersoll Rand comfort grips protect you from mechanical shocks and tool vibration, and our braces allow for more consistent torque output and eliminate the need for a dead handle.

Protective Tool Boots

Part Number	Description	For Use With
PROTECTIVE TOOL BOOTS		
212-BOOT	Impactool boot with Ingersoll Rand logo printed on red boot	212
2115M-BOOT	Premium Impactool boot with Ingersoll Rand logo	2115TiMAX Series
2130-BOOT	Premium Impactool boot with Ingersoll Rand logo	2130, 2130-2
2135M-BOOT	Premium Impactool boot with Ingersoll Rand logo	2135TiMAX, 2135Ti-2MAX, 2135QTiMAX, 2135QTi-2MAX, 2135QPTiMAX
2015-BOOT	Premium Impactool boot with Ingersoll Rand logo	2015MAX, 2025MAX
2141-BOOT	Premium Impactool boot with Ingersoll Rand logo	2141
259-BOOT	Premium Impactool boot with Ingersoll Rand logo	259
2161-BOOT	Impactool boot with Ingersoll Rand logo printed on red boot	2161XP, 2161XP-6
2190-BOOT	Premium Impactool boot with Ingersoll Rand logo	2190Ti, 2190Ti-6

- Specifically designed for use with our air Impactools
- Keep your tools clean and protected from external damage



212-BOOT



2135M-BOOT



2015-BOOT



232TGSL-P32

Part Number	Description	For Use With
PROTECTIVE TOOL BOOTS		
236-BOOT	Impactool boot with Ingersoll Rand logo printed on red boot	236
244-BOOT	Impactool boot with Ingersoll Rand logo printed on red boot	244A, 244A-2
261-BOOT	Impactool boot with Ingersoll Rand logo printed on red boot	261, 261-3, 261-6
285-BOOT	Impactool boot with Ingersoll Rand logo printed on red boot	285B, 285B-6
295-BOOT	Impactool boot with Ingersoll Rand logo printed on red boot	295, 295-S
231-BOOT	Impactool boot with Ingersoll Rand logo printed on red boot	231C, 231HA, 231HA-2
232TGSL-P32	ThunderGun Street Legal Impactool boot	232TGSL

285B Replacement Boots

Part Number	Description	For Use With
PROTECTIVE TOOL BOOTS		
431L-62	Rubber hammer case guard	285B, 285B-6, 285B-S6
431L-32	Rubber motor housing guard	285B, 285B-6, 285B-S6



431L-62



431L-32

Light Holder Boots

Part Number	Description	For Use With
2115M-BOOT-LED	Premium boot with LED flashlight holder (kit includes LED flashlight)	2115TiMAX Series
231-BOOT-LED	Premium boot with LED flashlight holder (kit includes LED flashlight)	231
2135M-BOOT-LED	Premium boot with LED flashlight holder (kit includes LED flashlight)	2135TiMAX Series



2115M-BOOT-LED

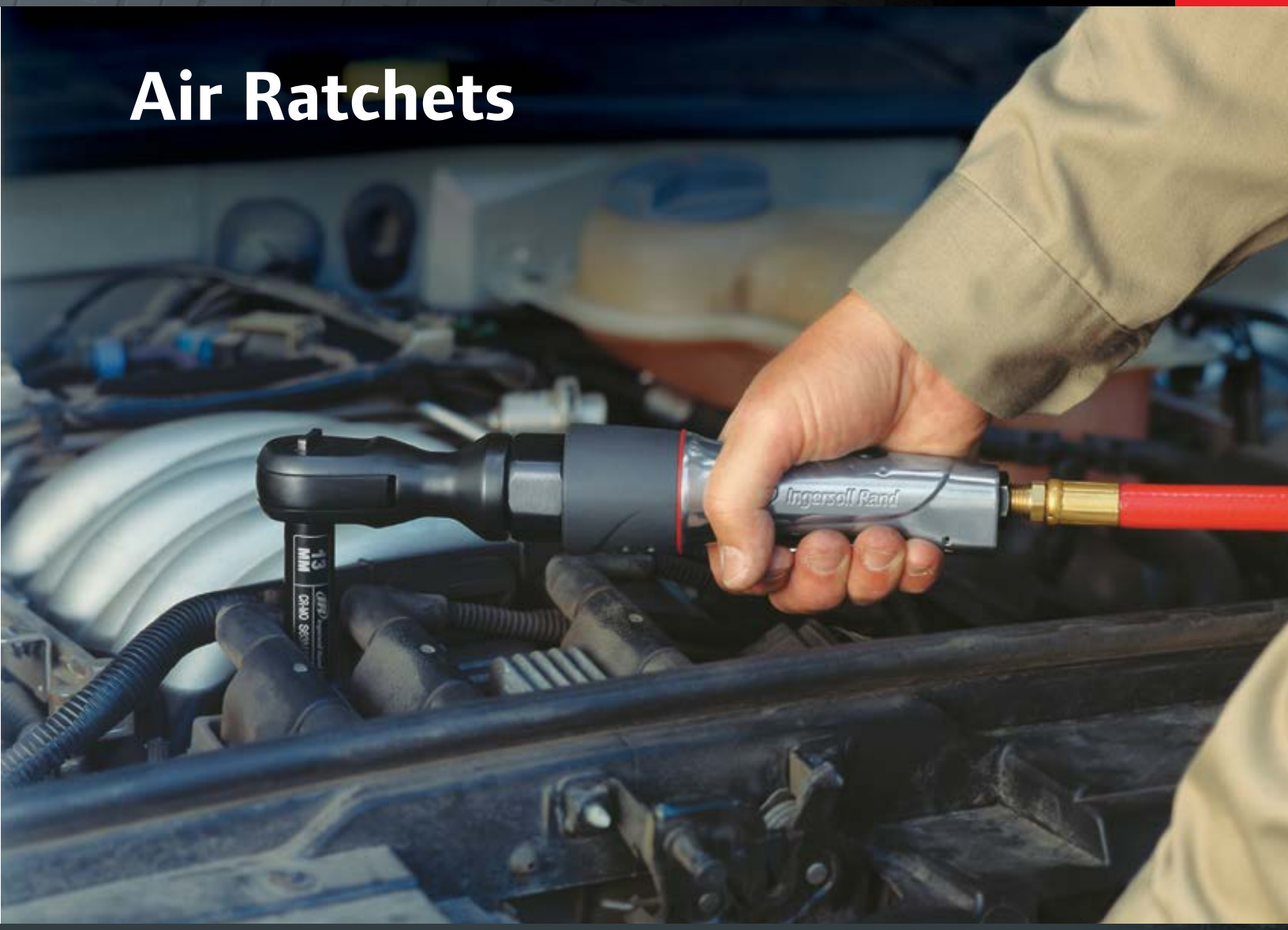


231-BOOT-LED

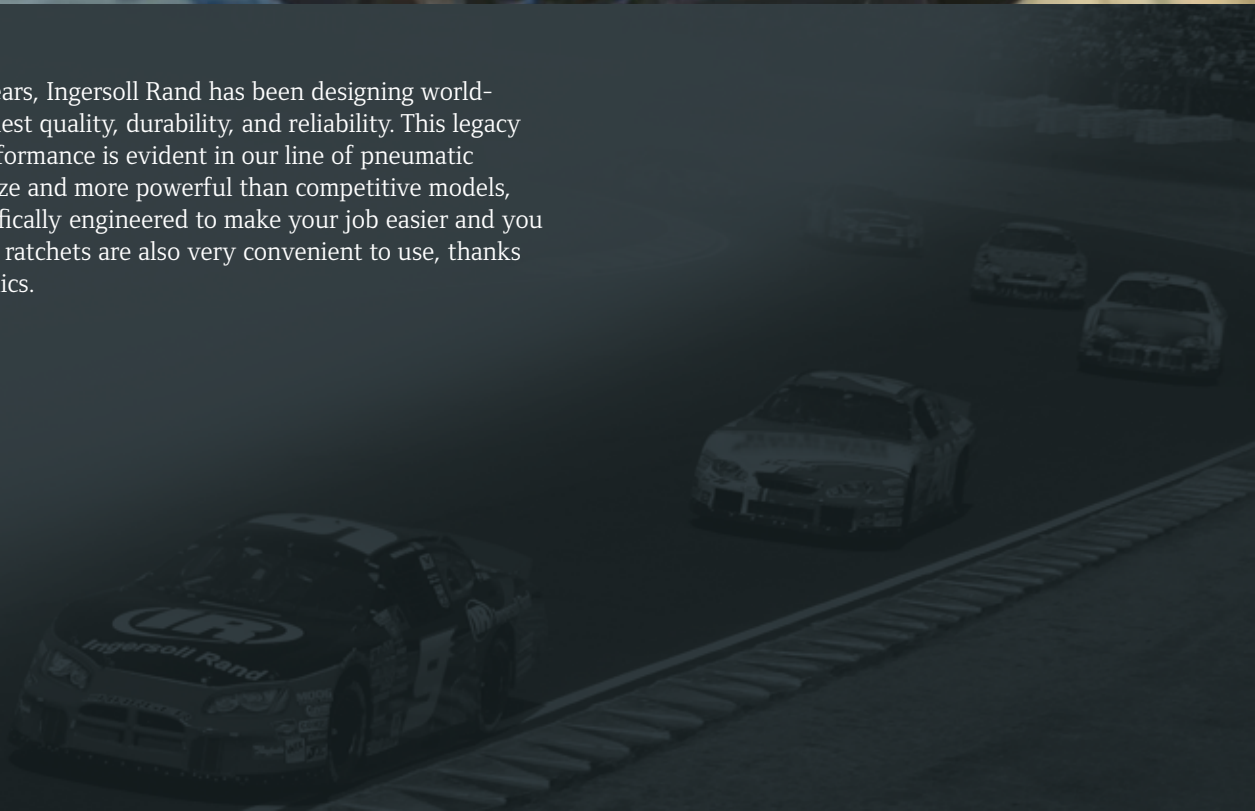


2135M-BOOT-LED

Air Ratchets



For more than 100 years, Ingersoll Rand has been designing world-class tools of the highest quality, durability, and reliability. This legacy of excellence and performance is evident in our line of pneumatic ratchets. Smaller in size and more powerful than competitive models, our ratchets are specifically engineered to make your job easier and you more productive. Our ratchets are also very convenient to use, thanks to enhanced ergonomics.



Air Ratchets

Model	Square Drive	Max Torque ft-lb (Nm)	Free Speed rpm	Weight lb (kg)	Length in (mm)	Average Air Consumption cfm (L/min)	Average Air Consumption @ Load cfm (L/min)	Sound Pressure / Power dBA	Air Inlet NPTF in	Min Hose Size in (mm)
1/4" SQUARE DRIVE										
105-D2	1/4"	25 (34)	250	1.4 (0.64)	7.3 (186)	3 (85)	18 (510)	81.8/92.8	1/4"	3/8"
105-L2	1/4"	25 (34)	250	1.56 (0.71)	8.41 (214)	3 (85)	18 (510)	81.6/92.6	1/4"	3/8"
1105MAX-D2	1/4"	30 (41)	300	1.43 (0.65)	7.36 (187)	3.5 (99)	20 (566)	88.9/99.9	1/4"	3/8"
3/8" SQUARE DRIVE										
105-D3*	3/8"	25 (34)	250	1.4 (0.64)	7.3 (186)	3 (85)	18 (510)	81.8/92.8	1/4"	3/8"
1105MAX-D3	3/8"	30 (41)	300	1.43 (0.65)	7.36 (187)	3.5 (99)	20 (566)	88.9/99.9	1/4"	3/8"

**Not pictured.*

105-D2

Air Ratchet Wrench

The Ingersoll Rand 105 series air ratchets offer professional technicians an outstanding combination of value and performance, delivering impressive comfort and durability.

- 25 ft-lb max torque
- Low profile forward/reverse control
- Head construction offers increased durability
- Ergonomic design



105-L2

Air Ratchet Wrench

The Ingersoll Rand 105 series air ratchets offer professional technicians an outstanding combination of value and performance, delivering impressive comfort and durability. The extended head of the 105-L2 offers longer reach.

- 25 ft-lb max torque
- Low profile forward/reverse control
- Head construction offers increased durability
- Ergonomic design





1105MAX-D2

Air Ratchet Wrenches

With the 1105MAX series air ratchets, you get best-in-class power and speed coupled with superior features to give you MAX power, MAX control, and MAX comfort.

(Also available in 3/8" drive: 1105MAX-D3)

MAX Power	**30 ft-lb of torque combined with 300 rpm provides optimal torque/speed combination.**
MAX Control	**Easily accessible variable power regulator combined with feather touch lever offers unprecedented control.**
MAX Comfort	**Ergonomic coupling nut improves handle comfort and composite handle insulates against cold.**



Air Ratchet Repair Kits



Keep your Ingersoll Rand air ratchet running strong with our genuine repair kits and parts — found on page 20.

Air Ratchets

Model	Square Drive	Max Torque ft-lb (Nm)	Free Speed rpm	Weight lb (kg)	Length in (mm)	Average Air Consumption cfm (L/min)	Average Air Consumption @ Free Speed cfm (L/min)	Sound Pressure / Power dBA	AirInlet NPTF in	Min Hose Size in (mm)
3/8″ SQUARE DRIVE										
107XPA	3/8″	54 (73)	160	2.75 (1.25)	11″ (279)	4 (85)	19 (510)	94.4 / 100.4	1/4″	3/8″
109XPA	3/8″	76 (95)	220	3.3 (1.4)	12″ (302)	4 (113)	24 (680)	92.4 / 103.4	1/4″	3/8″
1207MAX-D3	3/8″	65 (88)	200	3.2 (1.45)	10.8 (275)	4 (113)	23 (651)	85.0/96.0	1/4″	3/8″
1/2″ SQUARE DRIVE										
1077XPA*	1/2″	54 (73)	160	2.75 (1.25)	11″ (279)	4 (85)	19 (510)	94.4 / 105.4	1/4″	3/8″
1099XPA*	1/2″	76 (95)	220	3.3 (1.4)	12″ (302)	4 (113)	24 (680)	92.4 / 103.4	1/4″	3/8″
1207MAX-D4*	1/2″	65 (88)	200	3.2 (1.45)	10.8 (275)	4 (113)	23 (651)	85.0/96.0	1/4″	3/8″

*Not pictured.

107XPA

Air Ratchet Wrench

Based on the industry's most popular ratchet, the 107XPA delivers an extra measure of durability with an advanced head design, plus a host of other features.

- 54 ft-lb maximum torque
- 360° adjustable exhaust directs air away from the operator and the work
- Variable speed lever-style throttle



109XPA

Air Ratchet Wrench

Optimized gear ratio and airflow for extra performance, coupled with exceptional durability.

- 76 ft-lb maximum torque at 220 rpm free speedv
- 360° adjustable exhaust directs air away from the operator and the work
- Variable speed button trigger





1207MAX-D3

Air Ratchet Wrenches

As a member of the Ingersoll Rand family of MAX tools, the 1207MAX series air ratchets combine best-in-class performance and a full complement of premium features to give professional technicians MAX Power, MAX Control, and MAX Comfort. It's another in the long line of tools designed to help make your job easier — and you more productive.

(Also available in 1/2″ drive: 1207MAX-D4)

MAX Power	**65 ft-lb of maximum torque ensures enough power for tough applications.**
MAX Control	**Innovative forward/reverse collar, variable-speed power regulator, adjustable exhaust, and feather-touch trigger combine to offer unprecedented control.**
MAX Comfort	**Ergonomic composite handle is comfortable for extended use.**



Air Ratchet Boots



Even the industry's hardest-working air ratchets could use added protection from the rigors of the jobsite. Our air ratchet boots and accessories can be found on page 20

Air Ratchet Accessories

Extend the life of your tools with genuine Ingersoll Rand repair kits and replacement parts. Every Ingersoll Rand part is specifically designed to enhance durability and improve the productivity of your tool.

Air Ratchet Repair Kits

Part Number	For Use With
107XPA-SK	107XPA, 1077XPA
109XPA-SK	109XPA, 1099XPA



1077XPA-SK



1107-TRK1

Air Ratchet Head Repair Kits

Part Number	For Use With
103A-TRK-1	103A, 104B
1033A-TRK1	1033A
107XPA-TRK1	107XPA
1077XPA-TRK1	1077XPA
109XPA-TRK1	109XPA
1099XPA-TRK1	1099XPA
1105-D2-TRK1	1105MAX-D2. 105-D2, 105-L2
1105-D3-TRK1	1105MAX-D3, 105-D3
1207-D3-TRK1	1207MAX-D3
1207-D4-TRK1	1207MAX-D4
1215-TRK1	1215Ti
1225-TRK1	1225Ti

Air Ratchet Tune-up Kits

Part Number	For Use With
107XPA-TK1	107XPA, 1077XPA
109XPA-TK1	109XPA, 1099XPA



1200-TK1

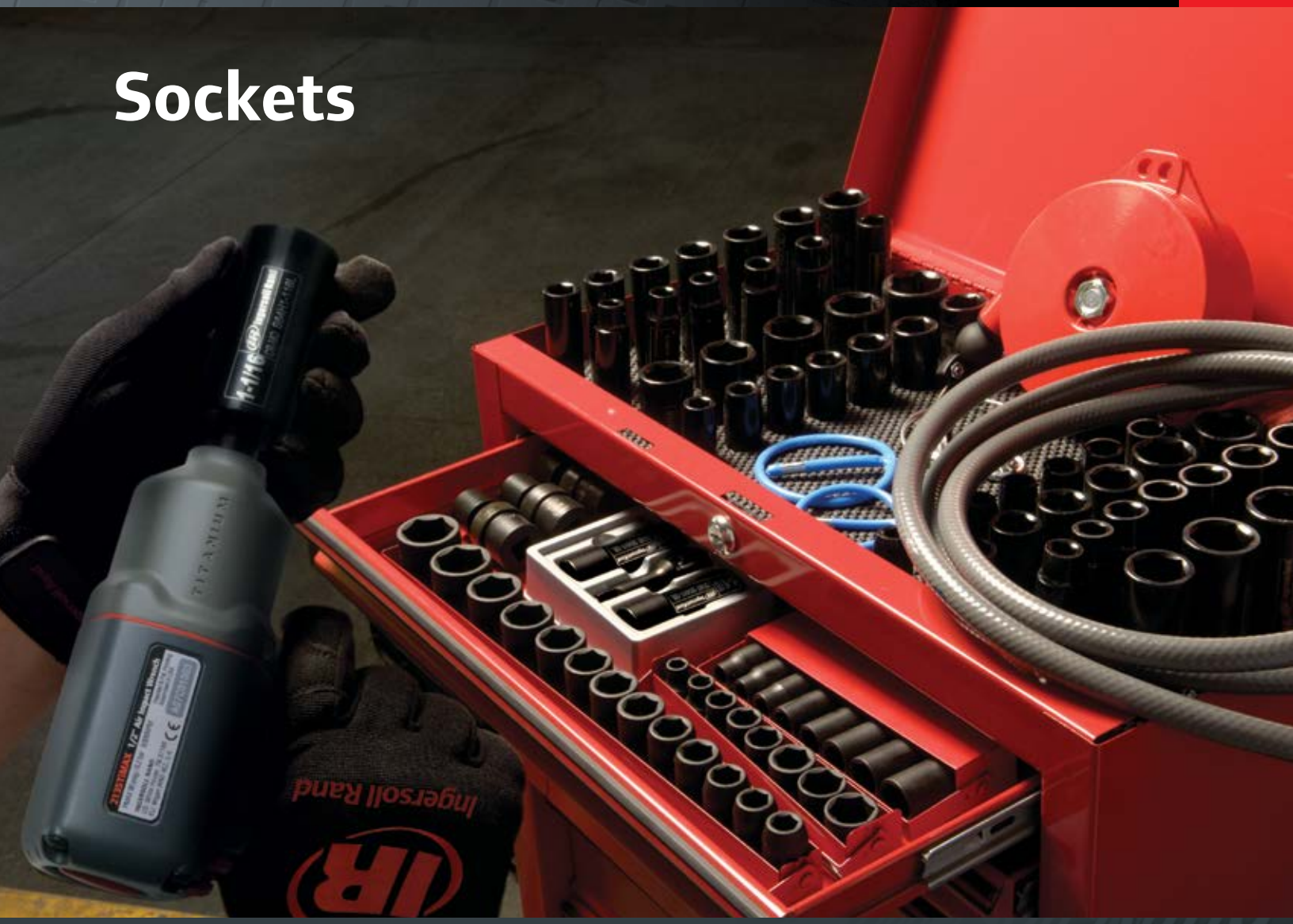
Boots

Part Number	Description	For Use With
103-BOOT	Ratchet head boot with Ingersoll Rand logo printed on red boot	105-D2, 105-D3, 105-L2, 1105MAX-D2, 1105MAX-D3
107-BOOT	Ratchet head boot with Ingersoll Rand logo printed on red boot	107XP, 107XPA, 1077XP, 1077XPA, R380
109-BOOT	Ratchet head boot with Ingersoll Rand logo printed on red boot	109XP, 109XPA, 1099XP, 1099XPA



107-BOOT

Sockets



Backed by a proud heritage of reliability and innovation, Ingersoll Rand introduces a comprehensive line of industrial-grade sockets consistent with the quality of our best-in-class Impactools.

- Impact-grade chrome-molybdenum steel provides the durability you expect from a global leader
- Highly visible laser etching for easy size identification
- Nearly 800 Impactool socket items for virtually any assembly or disassembly job
- Lifetime warranty

From air compressors to Impactools to sockets (and everything in between), Ingersoll Rand provides the toughest, highest quality products available.

Features and Benefits





Features		Benefits
A	Impact-grade toughness	Designed for high-torque applications
B	Chrome-molybdenum steel	Forged for high-strength durability
C	Laser-etched size labeling	Enables easy size identification
D	Electro-phosphate finish on 1/4" to 1" drive sizes	Projects a sleek look and high visibility
E	Durable roll stamp feature on 1-1/2", 2-1/2", and #5 Spline drive sizes	Enables easy size identification in harsh work environments
	Backed by a Lifetime Warranty	Provides peace of mind with proven reliability

Model Number Configurator

S64H78U
SK3M8L

Single Item

S Socket Type	6 Output Type	4 Drive Size	H SAE or Metric	78 Across Flats	U Socket Length
A= Adapter **E=** Extension **J=** Universal Joint **S=** Socket	**12=** 12 point **6=** 6 point	**2=** 1/4" **3=** 3/8" **4=** 1/2" **6=** 3/4" **8=** 1"	**H=** SAE **M=** Metric	**SAE socket:** i.e. 38= 3/8" (from 7/32" to 4-1/2") **Metric socket:** i.e. 20 (from 4mm to 125mm) **Extensions:** i.e. 3" (from 2" to 36")	**L=** Deep **U=** Universal **UL=** Universal Deep

Socket Sets

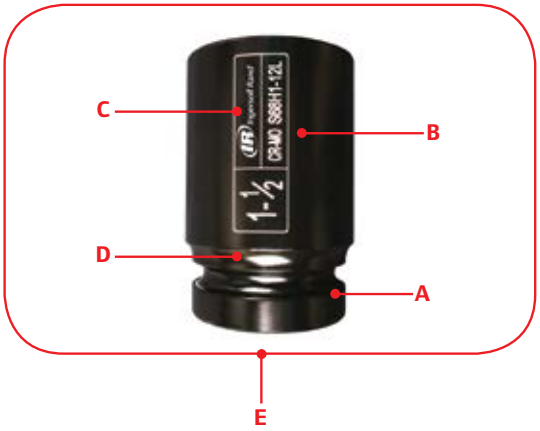
S Socket Type	K Kit	3 Drive Size	M SAE or Metric	8 Number of pieces per kit	L Socket Length
S= Socket	**K=** Kit	**2=** 1/4" **3=** 3/8" **4=** 1/2" **34=** Combo 3/8" & 1/2" **6=** 3/4" **8=** 1"	**H=** SAE **M=** Metric **C=** Combo SAE & Metric	**3=** 3 pieces **4=** 4 pieces **5=** 5 pieces **7=** 7 pieces **8=** 8 pieces **9=** 9 pieces **10=** 10 pieces **13=** 13 pieces **14=** 14 pieces **86=** 86 pieces	**L=** Deep **F=** Flip **U=** Universal

Industrial-grade Impact Sockets

Backed by a proud heritage of reliability and innovation, Ingersoll Rand introduces a comprehensive line of industrial-grade sockets consistent with the quality of our best-in-class Impactools.

Features and Benefits

	Features	Benefits
A	Impact-grade toughness	Designed for high-torque applications
B	Chrome-molybdenum steel	Forged for high-strength durability
C	Laser-etched size labeling	Enables easier identification to get the job done faster
D	Electro-phosphate finish	Projects a sleeker look for higher visibility
E	Backed by a lifetime warranty	Provides peace of mind with proven reliability



1/4″ Square Drive Sockets

Sets

Part Number	Pieces	Description	Contents
SK2C10	10	1/4″ drive combo SAE and metric standard socket set	3/16″, 1/4″, 3/8″, 1/2″, 9/16″, 4 mm, 6 mm, 10 mm, 12 mm, 14 mm
SK2M12	12	1/4″ drive metric standard socket set	6 mm, 7 mm, 8 mm, 9 mm, 10 mm, 11 mm, 12 mm, 13 mm, 14 mm, 50 mm extension, 10 mm extension, 3/8″ F to 1/4″ M adapter



SK2C10



SK2M12

Adapters

Part Number	Output Drive Size	Description
A2F3M	3/8″	1/4″ F to 3/8″ M
J2	1/4″	Universal joint



Extensions

Part Number	Output Drive Size	Description
E22H	1/4″	2″ extension
E24H	1/4″	4″ extension
E26H	1/4″	6″ extension



Ask your Ingersoll Rand representative or refer to catalog IRITS-1210-087 for our full line of industrial grade sockets.

3/8″ Square Drive Sockets

Sets

Part Number	Pieces	Description	Contents
SK3H8	8	3/8″ drive SAE standard socket set	5/16″, 3/8″, 7/16″, 1/2″, 9/16″, 5/8″, 11/16″, 3/4″
SK3H8L	8	3/8″ drive SAE deep socket set	5/16″, 3/8″, 7/16″, 1/2″, 9/16″, 5/8″, 11/16″, 3/4″
SK3H7U	7	3/8″ drive SAE universal socket set	3/8″, 7/16″, 1/2″, 9/16″, 5/8″, 11/16″, 3/4″
SK3M8	8	3/8″ drive metric standard socket set	9 mm, 10 mm, 11 mm, 13 mm, 14 mm, 15 mm, 17 mm, 19 mm
SK3M8L	8	3/8″ drive metric deep socket set	9 mm, 10 mm, 11 mm, 13 mm, 14 mm, 15 mm, 17 mm, 19 mm
SK3M10	10	3/8″ drive metric standard socket set	9 mm, 10 mm, 11 mm, 12 mm, 13 mm, 14 mm, 15 mm, 16 mm, 17 mm, 19 mm
SK3M7U	7	3/8″ drive metric universal socket set	10 mm, 12 mm, 13 mm, 14 mm, 15 mm, 17 mm, 19 mm
SK3C8	8	3/8″ drive combo SAE and metric standard socket set	3/8″, 1/2″, 5/8″, 11/16″, 10 mm, 13 mm, 16 mm, 17 mm



SK3H8



SK3M8



SK3M8L



SK3M7U



SK3H8L



SK3H7U



SK3C8

Adapters

Part Number	Output Drive Size	Description
A3F2M	1/4″	3/8″ F to 1/4″ M
A3F4M	1/2″	3/8″ F to 1/2″ M
J3	3/8″	Universal joint



Extensions

Part Number	Output Drive Size	Description
E33H	3/8″	3″ extension
E36H	3/8″	6″ extension
E312H	3/8″	12″ extension



1/2″ Square Drive Sockets

Sets

Part Number	Pieces	Description	Contents
SK4H13	13	1/2″ drive SAE standard socket set	7/16″, 1/2″, 9/16″, 5/8″, 11/16″, 3/4″, 13/16″, 7/8″, 15/16″, 1″, 1-1/16″, 1-1/8″, 1-1/4″
SK4H13L	13	1/2″ drive SAE deep socket set	7/16″, 1/2″, 9/16″, 5/8″, 11/16″, 3/4″, 13/16″, 7/8″, 15/16″, 1″, 1-1/16″, 1-1/8″, 1-1/4″
SK4H7U	7	1/2″ drive SAE universal socket set	1/2″, 9/16″, 5/8″, 11/16″, 3/4″, 13/16″, 7/8″
SK4M14	14	1/2″ drive metric standard socket set	10 mm, 11 mm, 12 mm, 13 mm, 14 mm, 15 mm, 16 mm, 17 mm, 18 mm, 19 mm, 21 mm, 22 mm, 26 mm, 27 mm
SK4M14L	14	1/2″ drive metric deep socket set	10 mm, 11 mm, 12 mm, 13 mm, 14 mm, 15 mm, 16 mm, 17 mm, 18 mm, 19 mm, 21 mm, 22 mm, 26 mm, 27 mm
SK4M4L	4	1/2″ drive metric deep axle nut service socket set	30 mm, 32 mm, 34 mm, 36 mm
SK4M7U	7	1/2″ drive metric universal socket set	13 mm, 14 mm, 15 mm, 17 mm, 19 mm, 21 mm, 22 mm
SK4C3F	3	1/2″ drive lug nut service flip socket set	3/4″, 13/16″, 19 mm x 21 mm, 3″ extension
SK34C86	86	3/8″ and 1/2″ drive combo standard and deep socket set	Includes all sockets in SK3H8, SK3H8L, SK3M8, SK3M8L, SK4H13, SK4H13L, SK4M14, and SK4M14L
SK4M5L	5	1/2″ drive deep socket set	17 mm, 19 mm, 21 mm, 22 mm, 24 mm
SK4M3L	3	1/2″ drive metric deep protective socket set	17 mm, 19 mm, 21 mm
SK4M18	18	1/2″ drive metric socket set	Standard: 10 mm, 11 mm, 13 mm, 14 mm, 17 mm, 19 mm, 21 mm, 22 mm, 24 mm Deep: 13 mm, 14 mm, 21 mm, 24 mm Deep Thin Wall: 17 mm, 19 mm, 21 mm, 125 mm extension, universal joint
SK4LNR	8	1/2″ drive metric lug nut removal set	17 mm, 18.5 mm, 20 mm, 21.5 mm, 23 mm, 24.5 mm, 26 mm, 27.5 mm



SK4H13



SK4M14L



SK34C86



SK4M14



SK4H13L



SK4H7U



SK4M7U



SK4C3F



SK4M4L

Adapters

Part Number	Output Drive Size	Description
A4F3M	3/4″	1/2″ F to 3/8″ M
A4F6M	3/4″	1/2″ F to 3/4″ M
J4	1/2″	Universal joint



Extensions

Part Number	Output Drive Size	Description
E43H	1/2″	3″ extension
E45H	1/2″	5″ extension
E47H	1/2″	7″ extension
E410H	1/2″	10″ extension
E418H	1/2″	18″ extra-long extension
E424H	1/2″	24″ extra-long extension
E436H	1/2″	36″ extra-long extension



3/4″ Square Drive Sockets

Sets

Part Number	Pieces	Description	Contents
SK6H8	8	3/4″ drive SAE standard socket set	1″, 1-1/16″, 1-1/8″, 1-1/4″, 1-5/16″, 1-3/8″, 1-7/16″, 1-1/2″
SK6H8L	8	3/4″ drive SAE deep socket set	1″, 1-1/16″, 1-1/8″, 1-1/4″, 1-5/16″, 1-3/8″, 1-7/16″, 1-1/2″
SK6M6L	6	3/4″ drive metric deep socket set	24 mm, 27 mm, 30 mm, 32 mm, 33 mm, 36 mm



SK6H8



SK6H8L



SK6M6L

Adapters

Part Number	Output Drive Size	Description
A6F4M	1/2″	3/4″ F to 1/2″ M
A6F8M	1″	3/4″ F to 1″ M
A6FS5M	#5 spline	3/4″ F to #5 spline M
J6	3/4″	Universal joint



Extensions

Part Number	Output Drive Size	Description
E63H	3/4″	3″extension
E67H	3/4″	7″ extension
E610H	3/4″	10″ extension
E613H	3/4″	13″ extra-long extension



1″ Square Drive Sockets

Sets

Part Number	Pieces	Description	Contents
SK8H8	8	1″ drive SAE standard socket set	7/8″, 15/16″, 1″, 1-1/16″, 1-1/8″, 1-3/16″, 1-1/4″, 1-1/2″
SK8H8L	8	1″ drive SAE deep socket set	7/8″, 15/16″, 1″, 1-1/16″, 1-1/8″, 1-3/16″, 1-1/4″, 1-1/2″
SK8H9T	9	1″ drive SAE truck service socket set	13/16″ square; 7/8″, 15/16″, 1″, 1-3/16″, 1-1/2″ hex; 1-1/16″, 1-1/8″, 1-1/4″ deep thin wall hex
SK8C5T	5	1″ drive combo SAE and metric deep truck service socket set	13/16″ square; 33 mm & 1-1/2″ deep hex; 1-1/8″ and 1-1/4″ deep thin wall hex
SK8M4L	4	1″ drive metric deep socket set	27 mm, 30 mm, 32 mm, 33 mm



SK8H8



SK8H8L



SK8H9T



SK8C5T



SK8M4L

Adapters

Part Number	Output Drive Size	Description
A8F6M	3/4″	1″ F to 3/4″ M
A8F12M	1-1/2″	1″ F to 1-1/2″ M
A8FS5M	#5 spline	1″ F to #5 spline M
J8	1″	Universal joint

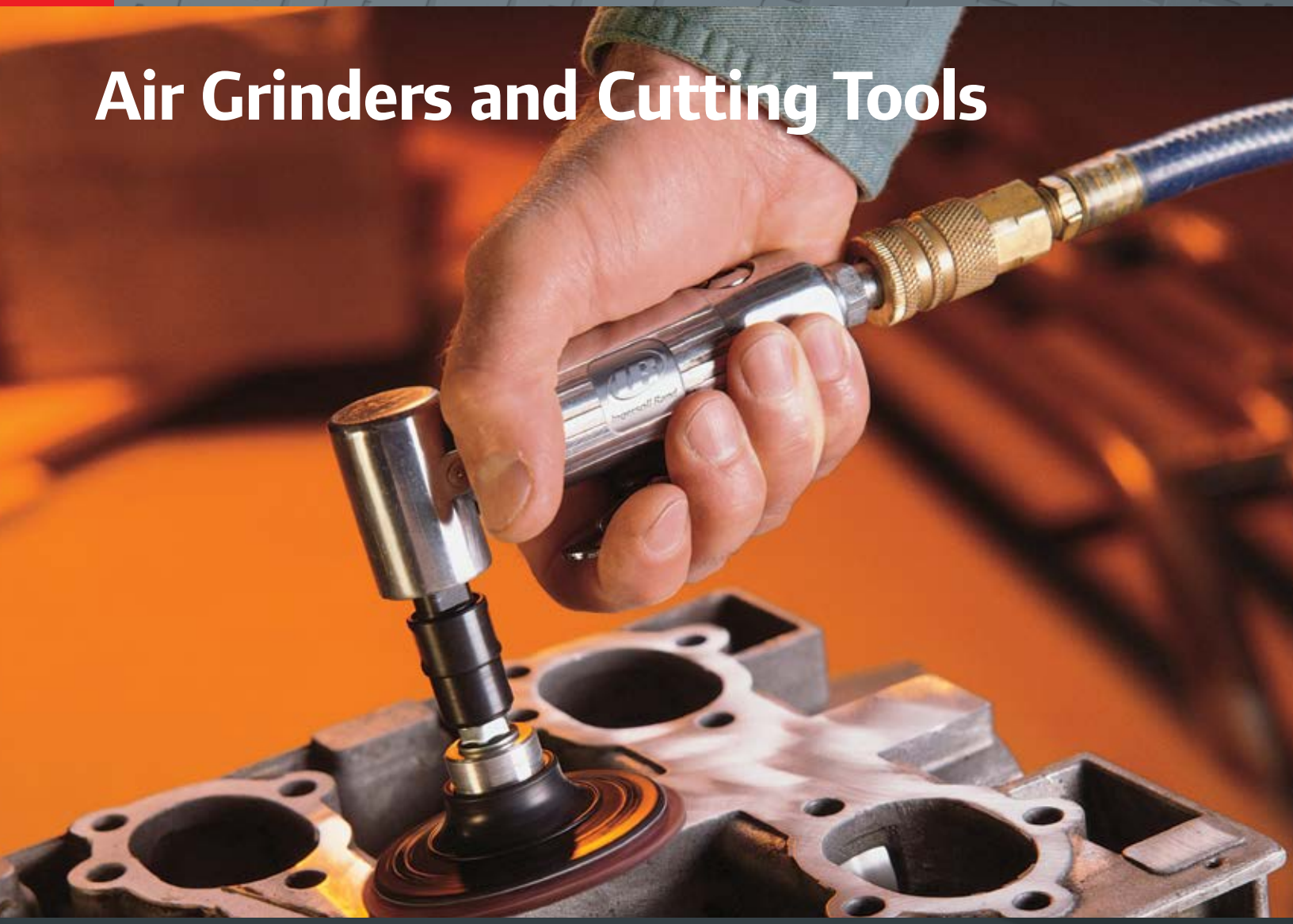


Extensions

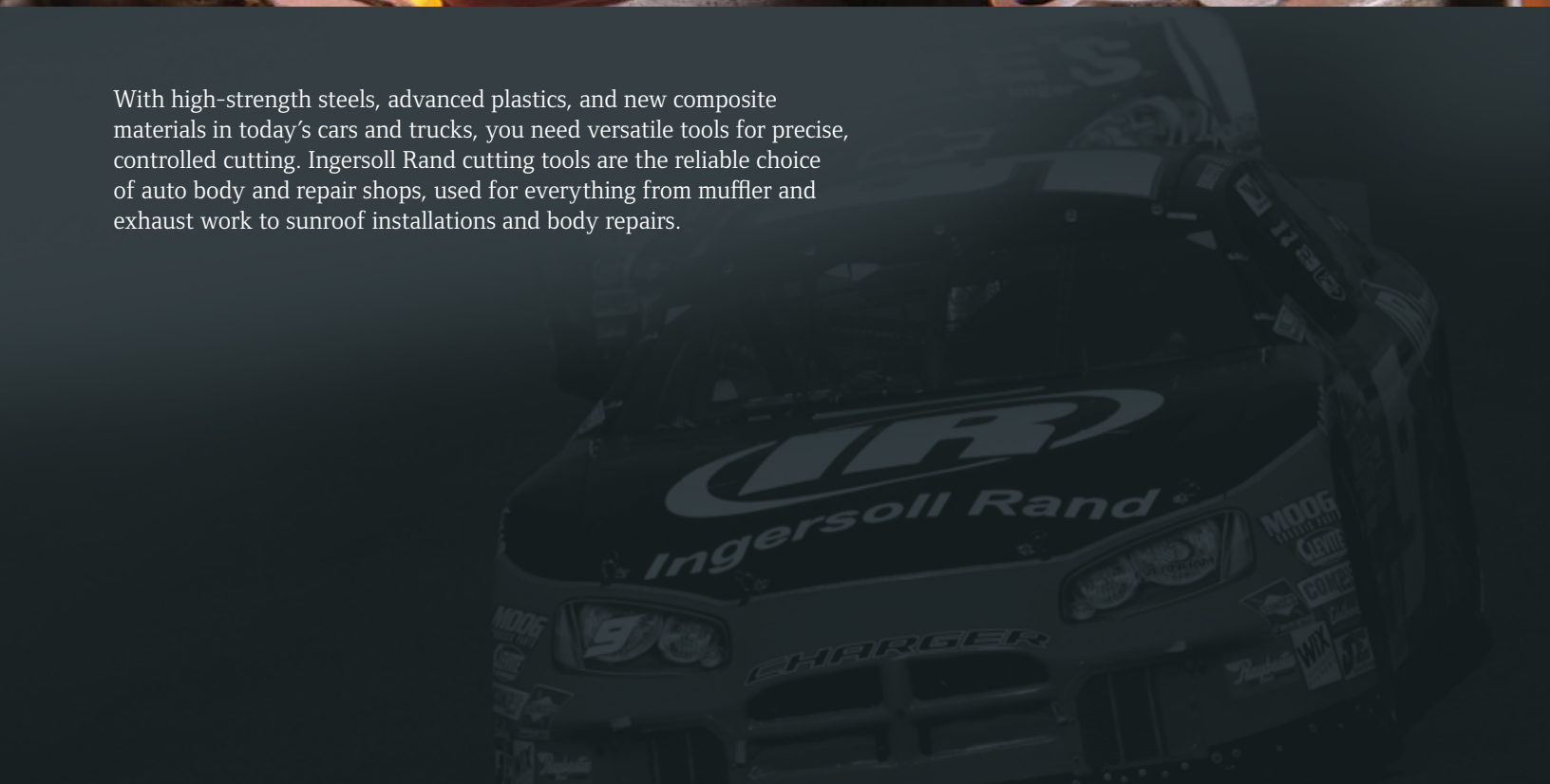
Part Number	Output Drive Size	Description
E83H	1″	3″ extension
E87H	1″	7″ extension
E810H	1″	10″ extension
E813H	1″	13″ extra-long extension



Air Grinders and Cutting Tools



With high-strength steels, advanced plastics, and new composite materials in today's cars and trucks, you need versatile tools for precise, controlled cutting. Ingersoll Rand cutting tools are the reliable choice of auto body and repair shops, used for everything from muffler and exhaust work to sunroof installations and body repairs.



Air Grinders

Model	Rated Power hp (kW)	Free Speed rpm	Output	Weight lb (kg)	Length in (mm)	Air Consumption cfm (L/min)	Average Air Consumption @ Load cfm (L/min)	Sound Pressure / Power dBA	Air Inlet NPTF in	Min Hose Size in (mm)
301	0.25 (0.19)	21,000	1/4″ Collet	0.99 (0.45)	5.0″ (127)	6 (170)	25 (707)	91.8 / 104.8	1/4″	3/8″ (10)
302A	0.25 (0.19)	18,000	1/4″ Collet	0.97 (0.44)	5.0″ (127)	3 (85)	12 (340)	94 / 105	1/4″	3/8″ (10)
307A	0.25 (0.19)	28,000	1/4″ Collet	0.69 (0.31)	4.8″ (121)	6 (170)	25 (707)	83 / 94	1/4″	3/8″ (10)
308A	0.5 (0.37)	25,000	1/4″ Collet	1.16 (0.53)	5.6″ (143)	3 (85)	20 (566)	91 / 102	1/4″	3/8″ (10)

301

Multi-purpose Air Angle Die Grinder

Part of an expanded line of economical, heavy-duty grinders, the 301 packs valuable features into a compact package. Use it for grinding, edge-breaking, deburring, porting, and polishing. Wherever space is tight, its right-angle configuration provides easy access.

- Compact, lightweight, and easy to handle
- Self-locking throttle
- Precision-machined gearing delivers maximum power transfer



302A

Air Angle Die Grinder

When a straight tool isn't practical for working in confined areas, this economical die grinder with a right-angle head is the one to use. It's compact and well-designed for grinding, porting, polishing, deburring, and breaking sharp edges.

- Precision-machined steel gears
- Positive grip 1/4″-capacity collet chuck
- Self-locking throttle lever



307A

Mini Air Die Grinder

The 307A combines performance and versatility in a lightweight, compact package. It can be used with all types of accessories for porting, weld breaking, and smoothing sharp edges, as well as deburring, polishing, and grinding.

- Standard 1/4″ collet for all types of accessories
- Safety lever prevents accidental starts
- Front exhaust helps keep work surface clean



308A

Air Die Grinder

A durable yet economical choice offering longer life and higher free speed at 25,000 rpm, this general-purpose tool is designed for porting, light weld grinding, and breaking sharp edges.

- Comes with two collet wrenches
- Self-locking throttle lever
- Positive grip 1/4″-capacity collet chuck



Carbide Grinding Burr Kits



Our carbide burrs set the industry standard for quality, and come in a variety of types, styles, and sizes. See pages 33 and 34 for our complete line of Ingersoll Rand air cutting tools and grinder accessories.

Air Grinders

Model	Rated Power hp (kW)	Free Speed rpm	Output	Weight lb (kg)	Length in (mm)	Average Air Consumption cfm (L/min)	Air Consumption @ Load cfm (L/min)	Sound Pressure / Power dBA	Air Inlet NPTF in	Min Hose Size in (mm)
3102	0.33 (0.25)	20,000	1/4″ Collet	1.27 (.58)	6.75″ (171)	3 (85)	18 (510)	90 / 101	1/4″	3/8″ (10)
3108	0.33 (0.25)	25,000	1/4″ Collet	1.27 (.58)	6.75″ (171)	3 (85)	18 (510)	92 / 103	1/4″	3/8″ (10)
326	N/A	20,000	N/A	2.3 (1.04)	8.88″ (226)	10 (283)	25 (708)	94.3 / 107.3	1/4″	3/8″ (10)
345MAX*	0.88 (0.66)	12,000	5/8″ - 11 Thread	3.44 (1.56)	9.6″ (244)	10 (283)	41 (1,160)	79.6 / 90.6	1/4″	3/8″ (10)
3445MAX	0.88 (0.66)	12,000	5/8″ - 11 Thread	3.37 (1.53)	9.6″ (244)	10 (283)	41 (1,160)	79.6 / 90.6	1/4″	3/8″ (10)
MINI TOOL SURFACE PREP GRINDER										
3103XP	0.2 (0.15)	15,000	1/4″ – 20 Thread	0.99 (0.45)	5″ (125)	2.1 (59)	19.4 (549)	84.9 / 95.9	1/4″	3/8″ (10)

**Not pictured.*

3102

Composite Die Grinder

For the ultimate performance and versatility in a lightweight package with superior maneuverability, these grinders are the perfect choice. The 3102 features a composite grip for superior ergonomics and comfort. These powerful die grinders can be used in various applications including porting, weld braking, deburring, polishing, and grinding, just to name a few.

- 20,000 rpm
- Safety release throttle
- Positive grip 1/4″-capacity collet chuck



3108

Composite Die Grinder

The 3108 features a composite grip for superior ergonomics and comfort. These powerful die grinders can be used in various applications including porting, weld braking, deburring, polishing, grinding, and more.

- 25,000 rpm
- Safety release throttle
- Positive grip 1/4″-capacity collet chuck



326

Cut-off Tool

The heavy-duty cut-off tool is designed for durability and on-the-job performance. Ideal for cutting mufflers, tail pipes, sheet metal, nuts, and bolts.

- Provides 18,000 rpm for fast cutting
- Steel shield deflects debris away from operator
- Large hooked locking throttle lever provides user comfort and safety



3103XP

Mini Surface Prep Sander

Whether you're working in tight spaces or doing finely detailed finish work, our mini tools deliver the power, versatility, and durability you want, in a conveniently smaller size

- Ball-bearing construction enhances durability and smooth power delivery
- Double-sided, adjustable speed settings provide variability for a broader range of applications
- includes 2″ and 3″ medium backing pads



Remove rough spots quickly and easily

3103K

Mini Surface Prep Sander Kit

- Includes 14-piece 2″ and 3″ sanding discs

3445MAX

Air Angle Grinder

The 3445MAX is the perfect choice for high performance material removal. This 4.5″ air angle grinder combines a unique internal governor with a powerful 0.88 hp motor, to give you a best-in-class power to weight ration grinder that will maximize your rate of material removal. (Also available in 5″ 345MAX)

MAX Power	**0.88 hp and 12,000 rpm motor delivers the power you need to grind through the toughest job.**
MAX Productivity	**Internal governor maximizes speed under load, increasing your rate of material removal.**
MAX Comfort	**Lower weight and enhanced grip design enables extended usage without fatigue.**



Abrasive Convenience Packs



In addition to our abrasive convenience packs, Ingersoll Rand offers a line of 2″ and 3″ surface conditioning discs designed to maximize the productivity of our air grinders while ensuring the best possible finishes. See pages 33 and 34 for our full line of cutting tool and grinder accessories.

Surface Conditioning Kits

301-2MK

Surface Conditioning Kit

Ingersoll Rand has packed the 301 in a strong, blow-molded plastic case along with four coarse and four medium grit 2″ Roloc™ surface conditioning pads and a disc holder.



301-32MK

Surface Conditioning Kit

This kit contains the 301 in a strong, blow-molded plastic case along with two coarse and two medium grit 3″ Roloc surface conditioning pads, two coarse, two medium grit 2″ Roloc surface conditioning pads, and two disc holders.



301-3MK

Surface Conditioning Kit

Four coarse and four medium grit 3″ Roloc surface conditioning pads are packed in a strong blow-molded case with our popular 301 grinder.



301-K

Die Grinder Kit

Ingersoll Rand has packed the 301 in a strong, blow-molded plastic case complete with 10 mounted grinding tips.



3102K

Die Grinder Kit

For the ultimate performance and versatility in a lightweight package with superior maneuverability in an angle grinder, the 3102 is the perfect choice. The 3102 features a composite grip for superior ergonomics and comfort. This powerful grinder can be used in a variety of applications, including porting, weld braking, deburring, grinding, polishing, etc. The kit includes the 3102 Grinder, 2″ and 3″ Quick Change Backing Pads, along with a variety of 2″ and 3″ Quick Change Sanding Disks, 2″ and 3″ Quick Change Coarse and Medium Polishing Disks, all packaged in a strong, blow-molded plastic case.



307-K

Die Grinder Kit

The 307-K comes with 10 mounted grinding tips in a strong, blow-molded case.



4102K

Surface Preparation Kit

Along with the versatile, lightweight, and powerful 3102 Angle Grinder, this Kit comes along with the ultimate in Random Orbital Sanders, the 4151-HL. The 4151-HL adds to the Kit the benefit of a lightweight, 6″ pad, 12,000 RPM, vacuum-ready, random orbital sander for all of the fine-finish requirements for the job at hand. Along with the Angle Grinder and the Random Orbital Sander, the kit includes a 3″ Quick Change Backing Pad, 3″ Quick Change Sanding Disks, 3″ Quick Change Coarse and Medium Polishing Disks, a 6″ Hook and Loop Backing Pad, and 6″ Sanding Disks, all packaged in a strong, blow-molded plastic case.



3108K

Die Grinder Kit

The 3108 features a composite grip for superior ergonomics and comfort. These powerful die grinders can be used in various applications including porting, weld braking, deburring, polishing, grinding, and more.



Air Cutting Tools

Model	Strokes Per Minute	Weight lb (kg)	Length in (mm)	Average Air Consumption cfm (L/min)	Air Consumption @ Load cfm (L/min)	Sound Pressure / Power dBA	Air Inlet NPTF in	Min Hose Size in (mm)
7802SA	4,200	2.8 (1.27)	9.4″ (239)	4 (113)	21 (595)	N/A	1/4″	3/8″ (10)
325B	3,200	2.1 (0.95)	7.3″ (185)	4 (113)	17 (481)	90.2 / 103.2	1/4″	3/8″ (10)
429	10,000	1.3 (0.6)	8.3″ (210)	8 (226)	9 (255)	84.3 / 95.3	1/4″	1/4″ (6)
4429*	5,750	1.6 (0.74)	9.3″ (235)	4 (113)	7.6 (215)	66.2 / 77.2	1/4″	1/4″ (6)

**Not pictured.*

7802SA

Air Shear



This versatile cutting shear that makes clean cuts in cold-rolled steel up to 20-gauge without chips is ideal for body shops, sheet metal shops, air-conditioning fabricators, plastic fabricators, heating contractors, and machine shops.

- Cuts squares, angles, and circles
- Long-life tool with heavy-duty cutting blades
- Shears most types of plastics and all types of aluminum, tin, and steel

325B

Air Nibbler

Get a bigger bite and better angle cuts with our Air Nibbler. Instead of shearing or sawing, the tool actually "nibbles" cold-rolled steel, plastic, tin, aluminum, and other metals, up to 18-gauge thicknesses at a rate of more than 6′ per minute. It's ideal for paint and auto body shops, tinsmiths, and sheet metal shops.

- Cuts out quarter panels without distorting the edges of the material
- Starts cuts in the center of a panel
- Holds a tight 1/4″ radius with great accuracy



429

Air Reciprocating Saw



The 429 is a versatile air saw for cutting intricate shapes and light radius curves in all types of plastics, fiberglass, and composite materials, as well as aluminum and sheet metal. This reduced vibration tool is excellent for body shop repair, muffler and exhaust work, and sunroof installations.

- Comes with 6 high-speed steel cutting blades and 2 hex wrenches
- Cuts flat and curved surfaces
- Durable, long-life tool

Saw Blades



Saw blades, cutting tools, and all other grinder accessories can be found on pages 33 and 34.

Carbide Grinding Burr Kits

Ingersoll Rand carbide burrs are titanium nitride (TiN) coated to provide maximum edge retention and corrosion resistance. The TiN coating can improve the average lifetime of the burr by more than three times.
Note: Burrs have a maximum operating speed of 40,000 rpm.



1814TiN



1438TiN



M30TiN

The 30 piece, carbide burr mega set covers a wide range of applications. Handy storage box keeps burrs organized and ready for use.

Part Number		Description
1814TiN	6-piece carbide burr kit	TiN coated carbide burrs — 1/8″ shank, 1/4″ head diameter with soft-sided case
618TiN	6-piece carbide burr kit	TiN coated carbide burrs — 1/8″ shank, 1/4″ and 1/8″ head diameters with soft-sided case
1818TiN	6-piece carbide burr kit	TiN coated carbide burrs — 1/8″ shank, 1/8″ head diameter with soft-sided case
1816TiN	6-piece carbide burr kit	TiN coated carbide burrs — 1/8″ shank, various head diameters with soft-sided case
1438TiN	6-piece carbide burr kit	TiN coated carbide burrs — 1/4″ shank, 3/8″ head diameter with soft-sided case
614TiN	6-piece carbide burr kit	TiN coated carbide burrs — 1/4″ shank, 1/2″ and 3/8″ head diameters with soft-sided case
1412TiN	6-piece carbide burr kit	TiN coated carbide burrs — 1/4″ shank, 1/2″ head diameter with soft-sided case
814TiN	8-piece carbide burr kit	TiN coated carbide burrs — 1/4″ shank, 1/2″ and 3/8″ head diameters with hard case
M30TiN	30-piece carbide burr mega set	TiN coated carbide burrs — 1/4″ and 1/2″ shank, various head diameters and shapes with hard case

Abrasive Convenience Packs

Part Number	Description
SANDING VARIETY GRIT PACKS	
02A-VARAO-6	2″ AO Series sanding discs — 2 each 36, 50, 80 grit
03A-VARAO-6	3″ AO Series sanding discs — 2 each 36, 50, 80 grit
02A-VARCO-6	2″ CO Series sanding discs — 2 each 36, 50, 80 grit
03A-VARCO-6	3″ CO Series sanding discs — 2 each 36, 50, 80 grit
23A-VARAO-6	2″ and 3″ AO Series sanding discs — 1 each 36, 50, 80 grit
SURFACE CONDITIONING / VARIETY GRIT PACKS	
02A-VARBR-5	2″ surface preparation discs — 2 each coarse and medium, 1 very fine
03A-VARBR-5	3″ surface preparation discs — 2 each coarse and medium, 1 very fine
23A-VARBR-6	2″ and 3″ surface preparation discs — 1 each coarse, medium, 1 very fine
HIGH STRENGTH — BLENDING AND BUFFING DISCS	
02A-MEDHS-4	2″ medium-grade, blending kit 3 discs with backing pad and post
03A-MEDHS-4	3″ medium-grade, blending kit 3 discs with backing pad and post
QUICK STRIP — PAINT AND CORROSION DISCS	
02A-CRSBS-4	2″ coarse quick-strip kit 3 discs with backing pad and post
03A-CRSBS-4	3″ coarse quick-strip kit 3 discs with backing pad and post
COMPLETE SURFACE CONDITIONING KITS	
02A-VAR-KIT	2″ complete surface preparation kit with backing pad and post
03A-VAR-KIT	3″ complete surface preparation kit with backing pad and post





Cut-off Wheels

Part Number	Description
9520	3″ diameter cutting discs (5 pack)
9521	3″ diameter cutting discs (50 pack)



Bi-metal Reciprocating Saw Blades

These Bi-metal technology blades are created using a solid-state diffusion process that applies high-speed steel to both edges of the backing material, which increases the contact area by 170 percent. Bi-metal blades have a new tooth profile that generates more (but smaller) chips: this reduces frictional heat that is generated during the cutting application, which will enhance overall performance.

Part Number	Description	Teeth Per Inch	Quantity
FINE			
P4FS-6	Fine standard pitch	32	6
P4FS-20	Fine standard pitch	32	20
P4FS-50	Fine standard pitch	32	50
COARSE			
P4CS-6	Coarse standard pitch	24	6
P4CS-20	Coarse standard pitch	24	20
P4CS-50	Coarse standard pitch	24	50
EXTRA COARSE			
P4EV-6	Extra-coarse variable pitch	14 – 18	6
P4EV-20	Extra-coarse variable pitch	14 – 18	20
P4EV-50	Extra-coarse variable pitch	14 – 18	50

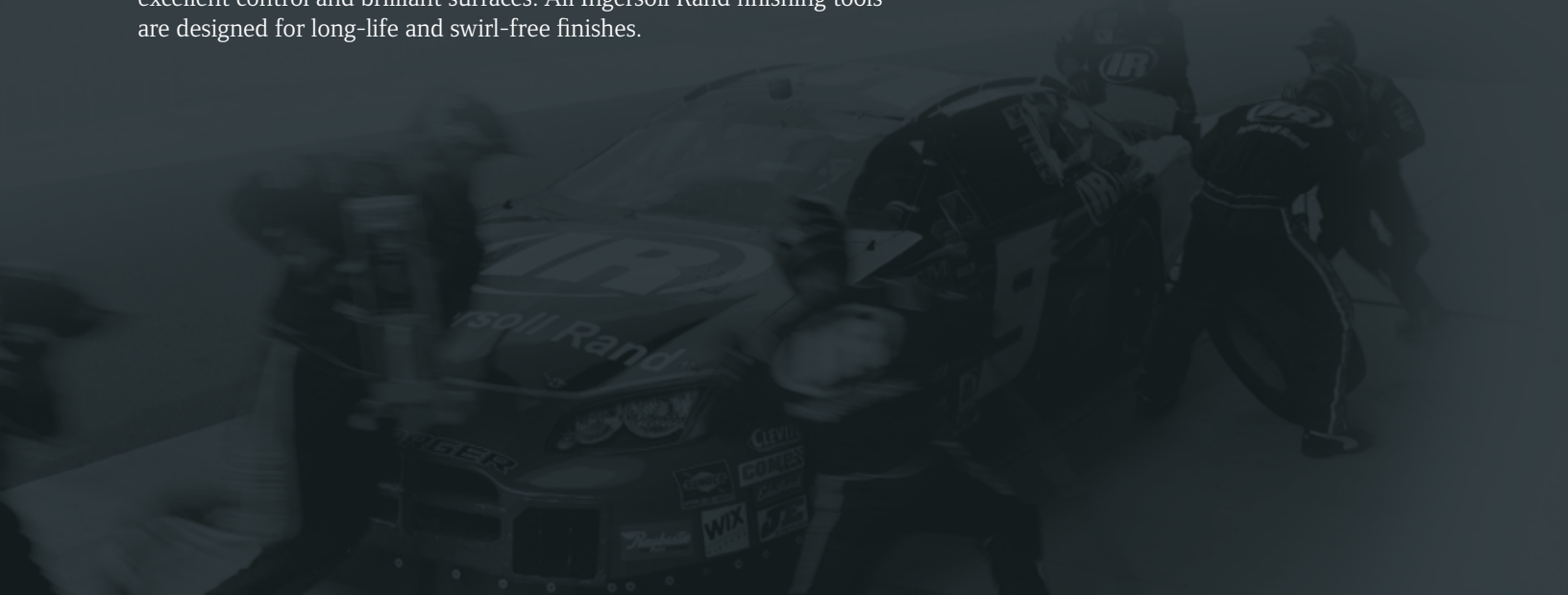




Air Finishing Tools



Ingersoll Rand has the industry's most complete line of air finishing tools. Sanders, polishers, and buffers come in a variety of models from traditional styles for heavy material removal to the newest models for excellent control and brilliant surfaces. All Ingersoll Rand finishing tools are designed for long-life and swirl-free finishes.



Air Finishing Tools

Model	Free Speed rpm	Rated Power hp (kW)	Pad Size in (mm)	Weight lb (kg)	Average Air Consumption cfm (L/min)	Air Consumption @ Load cfm (L/min)	Sound Pressure / Power dBA	Chuck Size in (mm)	Air Inlet NPTF in	Min Hose Size in (mm)
327*	22,000	0.5 (0.38)	N/A	1.6 (.73)	15 (425)	28 (793)	90.9 / 103.9	3/8″ (10)	1/4″	3/8″ (10)
327LS	3,000	0.5 (0.37)	N/A	1.13 (.51)	14 (396)	27 (765)	95 / 108	3/8″ (10)	1/4″	3/8″ (10)
312A	8,000	0.3 (0.22)	3-2/3″ x 6-3/4″ (93 x 171)***	4.6 (2.09)	9 (255)	12 (340)	94.1 / 107.1	N/A	1/4″	3/8″ (10)
317A	18,000	N/A	5″ (127)	2.3 (1.04)	12 (340)	25 (708)	86.7 / 99.7	N/A	1/4″	3/8″ (10)
315	3,000**	N/A	2-3/4″ x 17-1/2″ (70 x 445)***	6.6 (2.99)	8 (226)	9 (255)	93.3 / 106.3	N/A	1/4″	3/8″ (10)

*Not pictured. **1″ length strokes per minute. ***Rectangular pad size.

327LS

Low-speed Air Tire Buffer

Designed for convenience, the many features of the 327LS make it an ideal tool for every tire shop. The quick-change chuck, built-in regulator, and lever-style throttle make patchwork, roughing areas for recapping, and cleaning tire moldings a breeze.

- Trigger design with lock-off feature allows for easy operation and protection from accidental start-up
- Piped-away exhaust (included) directs air away from work area and operator
- Convenient hanger keeps tool within easy reach



312A

Orbital Air Sander
3-2/3″ x 6-3/4″ Pad

The 312A air orbital sander has a free speed up to 8,000 rpm to make fast work of smoothing fiberglass, wood, and body filler, and to take care of any sanding job on paint, metal, and fiberglass. Plus, you can run the 312A with one hand, using the compact, contoured palm-grip.

- Balanced ball bearing construction
- Automatic release throttle lever with positive stop action
- Built-in regulator for positive speed control



317A

High-speed Air Sander
5″ Pad

For small jobs and hard-to-reach places, the 317A is an economical high-speed sander ideal for light sanding, feather edging, and rust removal.

- Easy to handle, compact, and lightweight
- Built-in power regulator
- Comes with two backing pads; one is 3″, and the other is 5″ (stackable)



315

Twin-piston Straight-line Air Sander
2-3/4″ x 17-1/2″ Pad

The twin-piston design keeps extra power in reserve to prevent stalling and tackle sanding jobs like smoothing down body filler or shaping and leveling large, flat surfaces.

- 3,000 reciprocating strokes per minute
- Quick-action paper clamps
- Smooth, reliable power



Straight-line Sanding Pads



Constructed with non-metallic material to reduce side strap wear, our straight-line sanding pads are designed specifically for the Ingersoll Rand 315 straight-line sander. See pages 40 for our full line of finishing tool accessories.

Model	Free Speed rpm	Rated Power hp (kW)	Pad Diameter in (mm)	Weight lb (kg)	Output	Average Air Consumption cfm (L/min)	Air Consumption @ Load cfm (L/min)	Sound Pressure / Power dBA	Air Inlet NPTF in	Min Hose Size in (mm)
311A	12,000	0.25 (0.191)	6″ (150)	4.2 (1.91)	5/16″ – 24 Thread	4 (113)	17 (481)	85.6 / 98.6	1/4″	3/8″ (10)
328B	825	0.25 (0.191)	8″ (203)	4.7 (2.13)	N/A	4 (113)	16 (453)	90.45 / 93.7	1/4″	3/8″ (10)
313A	5,000	0.5 (0.37)	7″ (175)	4.5 (2.04)	5/8″ – 11 Thread	8 (226)	29 (651)	99.3 / 112.3	1/4″	3/8″ (10)
314A*	2,500	0.4 (0.30)	7″ (175)	4.5 (2.04)	5/8″ – 11 Thread	8 (226)	29 (623)	97.3 / 110.3	1/4″	3/8″ (10)
318A	2,800	1 (0.746)	7″ (175)	4.5 (2.04)	5/8″ – 11 Thread	6 (170)	21 (595)	90.5 / 103.5	1/4″	3/8″ (10)
319A*	5,000	N/A	7″ (175)	4.5 (2.04)	5/8″ – 11 Thread	6 (170)	20 (566)	90.8 / 103.8	1/4″	3/8″ (10)
MINI AIR FINISHING TOOLS										
3128XP	15,000	0.2 (0.15)	3″ (76.2)	1.1 (0.5)	1/4″ – 20 Thread	2.1 (58)	14.7 (416)	84.2 / 96.9	1/4″	3/8″ (10)
3129XP	6,000	0.3 (0.22)	3″ (76.2)	1.3 (0.6)	1/4″ – 20 Thread	2.2 (62)	19.9 (561)	83.5 / 94.5	1/4″	3/8″ (10)

** 314A air angle polisher / buffer and 319A sander not pictured.*

311A

Dual-action Quiet Air Sander — 6″ Pad

A built-in silencer muffles noise as you work with this economical dual-action sander. It's a quality sander used for feather edging, metal preparation, and finish work on body filler. And its dual-action pad motion produces swirl-free finishes.

- Low vibration
- Balanced ball bearing construction
- Adjustable built-in regulator for positive speed control



328B

Geared Orbital Air Sander — 8″ Pad

The smooth strength and power of this air-geared orbital sander lets you remove heavy material and body filler on large, flat surfaces leaving a clean, swirl-free finish.

- Dual-action pad motion (5/32″ orbit)
- Long-life, low-vibration performance
- Balanced ball bearing construction



313A

Angle Air Sander — 7″ Pad

With up to 5,000 rpm free speed, you can work faster on light and heavy sanding jobs, including roughing body filler, removing rust, and smoothing welds.

- Heavy-duty motor handles tough jobs
- Lightweight, only 4.5 lb
- Ball bearing construction for long life



318A

Vertical Air Polisher / Buffer — 7″ Pad

Buff and polish all painted surfaces easily. This compact, lightweight vertical polisher / buffer gives you the results you want. The variable speed control lever throttle helps eliminate paint burning. Comes complete with a 7″ backing pad.

- Long tool life from the planetary gear reduction feature
- Plenty of power from the 1 hp motor
- Handle exhaust directs air away from work area



3128XP

Mini Random Orbital Sander

- Delivers swirl-free finishes when feather edging, removing rust, preparing metal surfaces, or smoothing welds
- Durable ball-bearing construction ensures smooth power delivery
- Includes 3″ hook and loop style backing pad



Sands smoothly, leaving no swirl marks behind

3128K

Mini Random Orbital Sander Kit
- Includes 71-piece hook and loop discs

3129XP

Mini Polisher

- Free speed of 6,000 rpm delivers the same performance of polishers twice the size
- Double-sided, adjustable speed settings provide variability for a broader range of applications
- Includes 3″ hook and loop style backing pad



Ideal for a smooth, professional finish

3129K

Mini Polisher Kit
- Includes 4-piece hook and loop pads

Air Finishing Tools

Model	Free Speed rpm	Rated Power hp (kW)	Pad Diameter in (mm)	Orbit Diameter in (mm)	Weight lb (kg)	Average Air Consumption cfm (L/min)	Air Consumption @ Load cfm (L/min)	Sound Pressure / Power dBA	Air Inlet NPTF in	Min Hose Size in (mm)
4151	12,000	0.2 (0.15)	6” (150)	3/16” (5)	1.92 (.87)	8 (226)	15.5 (439)	81.6 / 91	1/4”	5/16” (8)
4151-5*	12,000	0.2 (0.15)	5” (125)	3/16” (5)	1.92 (.87)	8 (226)	15.5 (439)	81.6 / 91	1/4”	5/16” (8)
4151-HL*	12,000	0.2 (0.15)	6” (150)	3/16” (5)	1.92 (.87)	8 (226)	15.5 (439)	81.6 / 91	1/4”	5/16” (8)
4151-2*	12,000	0.2 (0.15)	6” (150)	3/16” (5)	2.4 (1.1)	8 (226)	15.5 (439)	81.6 / 91	1/4”	5/16” (8)
4152	12,000	0.2 (0.15)	6” (150)	3/32” (2.5)	1.92 (.87)	8 (226)	15.5 (439)	81.6 / 91	1/4”	5/16” (8)
4152-HL*	12,000	0.2 (0.15)	6” (150)	3/32” (2.5)	1.92 (.87)	8 (226)	15.5 (439)	81.6 / 91	1/4”	5/16” (8)

**Not pictured.*
NOTE: HL models include a hook-and-loop pad.

4151

Vacuum-ready Random Orbital Air Sander

This vacuum-ready, low-vibration model produces an ultra high-quality finish and connects easily to central or portable vacuum systems. The 4151 extracts dust and particles through and around the pad, keeping foreign matter away from the motor. The vacuum sanding pad features a unique design with large 1/2” holes for efficient operation. Virtually all dust is instantly channeled away from the work.

- 12,000 rpm free speed for wirl-free finishes
- Durable, lightweight composite design weighs less than 2 lb
- 3/16” orbit diameter



4152

Vacuum-ready Random Orbital Air Sander

The 4152 sets a new standard in elite automotive finish work. This fine 3/32” orbit sander helps users achieve high-quality paint finishes. The 4152 utilizes a precision ground counterbalance to reduce vibration.

- 12,000 rpm free speed for swirl-free finishes
- Durable, lightweight composite design weighs less than 2 lb
- 3/32” orbit diameter



Vacuum Kits



Keep your work surface and area clean with our Jet-Vac dust extraction system and accessories. See page 39 for more information. Turn to page 40 for all other major components and accessories.

Vacuum Kits and Accessories

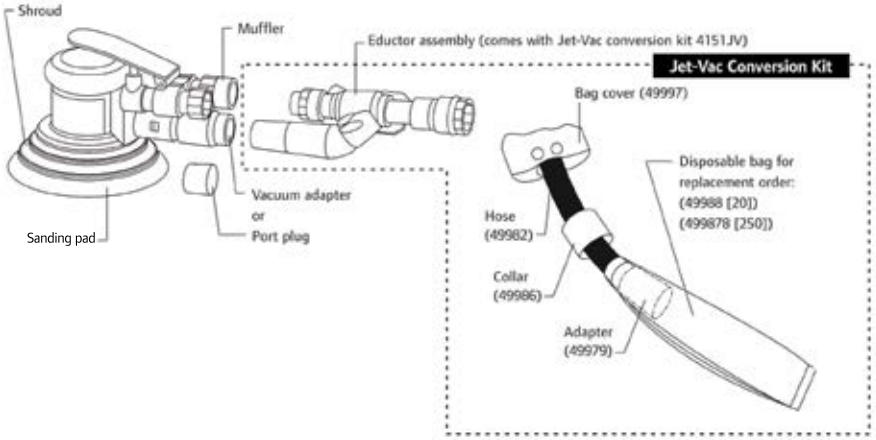
Influenced by jet engine technology, the Ingersoll Rand Jet-Vac dust extraction system sucks up more air than it takes to actually run the tool. Perfect for use with our sanders.

Part Number	Description	For Use With
JET-VAC CONVERSION KITS		
4151JV	Jet-Vac conversion kit	4151, 4152 Series, Cyclone Standard, Cyclone Select, CycloVAC sanders
RSVK-5*	5" Jet-Vac conversion kit	4151, 4152 Series, Cyclone Standard, Cyclone Select, CycloVAC sanders
RSVK-6*	6" Jet-Vac conversion kit	4151, 4152 Series, Cyclone Standard, Cyclone Select, CycloVAC sanders

**Not pictured.*



4151JV



Part Number	Description	For Use With
JET-VAC ACCESSORIES		
49600*	6' (1.8 m) hose equipped with molded 1" ID cuffs at each end	4151, 4152 Series, Cyclone Standard, Cyclone Select, CycloVAC sanders
49973	Disposable vacuum bag (single)	4151, 4152 Series, Cyclone Standard, Cyclone Select, CycloVAC sanders
49997	Bag cover	4151, 4152 Series, Cyclone Standard, Cyclone Select, CycloVAC sanders
355-402*	Dust collection bag	4151, 4152 Series, Cyclone Standard, Cyclone Select, CycloVAC sanders
49979	Vacuum adapter	4151, 4152 Series, Cyclone Standard, Cyclone Select, CycloVAC sanders
49982	Vacuum hose	4151, 4152 Series, Cyclone Standard, Cyclone Select, CycloVAC sanders
49986*	Vacuum hose collar	4151, 4152 Series, Cyclone Standard, Cyclone Select, CycloVAC sanders
49987*	Disposable vacuum bags (250 pack)	4151, 4152 Series, Cyclone Standard, Cyclone Select, CycloVAC sanders
49988*	Disposable vacuum bags (20 pack)	4151, 4152 Series, Cyclone Standard, Cyclone Select, CycloVAC sanders

**Not pictured.*



49973



49997



49979



49982

4100 Series Major Components and Accessories

Model	Description
NON-VACUUM PADS 3/8″	
49879-1	6” vinyl
49094-1	5” vinyl
49877-1	5” duck
VACUUM PADS 3/8″	
VPAD-6	6” petal pattern
49694	6” hook-and-loop
49096-1	5” petal pattern
VACUUM ADAPTER FOR MODEL 3154	
4151-A809A-25	Vacuum adapter
SHROUDS	
48266-1	Short (standard on 4151)
48878	Long
JET-VAC VACUUM BAGS	
49988	Disposable bags (20 pack)
49987	Disposable bags (250 pack)
JET-VAC CONVERSION KIT	
4151JV	6” pad 48878 – (1) 6” shroud 49976 – (1) eductor assembly 49973 – (3) disposable bags 49979 – (1) bag adapter 49997 – (1) cloth bag cover 49982 – (1) hose 49986 – (1) collar
SERVICE KIT (FOR PREVENTIVE MAINTENANCE)	
30131-2	IR49837 pad wrench (included with every tool)
SPANNER WRENCH	
44548	Use to remove the lock ring securing the motor assembly

Model	Diameter	Description
BACKING PADS FOR MODELS 313, 314, 318, 319		
313A-825-7	7”	Standard-duty – rigid backing pad
6130A	7”	Heavy-duty – flexible backing pad
DUAL-ACTION BACKING PADS FOR MODELS 310 AND 311		
311A-825-6	6”	Standard-duty – vinyl pad
6120A	6”	Heavy-duty – firm edge for firm support, cloth back
6121A	6”	Heavy-duty – soft edge for medium support, cloth back
6122A	5”	Heavy-duty – firm edge for firm support, cloth back
6123A	5”	Heavy-duty – soft edge for medium support, cloth back
DUAL-ACTION BACKING PAD FOR MODEL 328		
328B-825-8	8”	Standard-duty – pad assembly
POLISHING PAD FOR MODELS 314, 318, OR ANY POLISHER WITH A 5/8″-11 SPINDLE		
6135A	8”	2” thick polyester foam
STRAIGHT LINE SANDING PAD FOR MODEL 315		
315-39	N/A	Non-metallic material; fits similar brands of straight-line sanders

The full range of Ingersoll Rand sanding, backing, and polishing pads will help you complete every sanding, polishing, and grinding job to your satisfaction.

315-39 Straight-line Sanding Pads

For use with model 315. Non-metallic material reduces side strap wear caused by metallic sanding pads. Fits other similar brands of straight-line sanders.



6135A Polishing Pads

Polishing pads have 8” diameter, 2” thick polyester foam. For use with models 314, 318, or any polisher with a 5/8”-11 spindle.





Air Drills and Screwdrivers



Ingersoll Rand air drills have industrial-grade chucks and keyless chuck versions that are extra-tough for drilling, sawing, valve guide reaming, cylinder honing, and wire brushing. They are powerful, efficient, and durable with smooth, quiet operation.



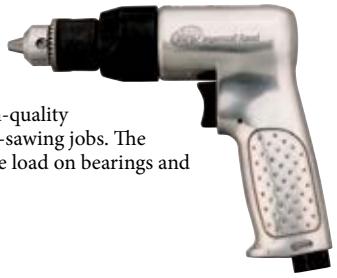
Air Drills and Screwdrivers

Model	Chuck Size in (mm)	Free Speed rpm	Rated Power hp (kW)	Net Weight lb (kg)	Overall Length in (mm)	Average Air Consumption cfm (L/min)	Air Consumption @ Load cfm (L/min)	Sound Pressure / Power dBA	Air Inlet NPTF in	Min Hose Size in (mm)
3/8″ CHUCK DRILL										
7802A	3/8” (10)	2,000	0.5 (0.38)	2.6 (1.1)	7.8” (198)	4 (113)	26 (736)	83 / 94	1/4”	3/8” (10)
7802RA	3/8” (10)	2,000	0.5 (0.38)	2.9 (1.2)	7.8” (198)	4 (113)	26 (736)	82 / 93	1/4”	3/8” (10)
7802RAKC	3/8” (10)	2,000	0.5 (0.38)	2.9 (1.2)	7.4” (188)	4 (113)	26 (736)	82 / 93	1/4”	3/8” (10)
1/2″ CHUCK DRILL										
7803A	1/2” (13)	500	0.5 (0.38)	3.2 (1.45)	9” (229)	4 (113)	27 (765)	83 / 94	1/4”	3/8” (10)
7803RA*	1/2” (13)	500	0.5 (0.38)	3.3 (1.5)	8.7” (221)	4 (113)	27 (765)	83 / 94	1/4”	3/8” (10)
7803RAKC*	1/2” (13)	500	0.5 (0.38)	3.3 (1.5)	8.7” (221)	4 (113)	27 (765)	83 / 94	1/4”	3/8” (10)

**Not pictured.*

7802A

Air Drill



With its industrial-grade 3/8” chuck, this economical choice includes high-quality features for general drilling and hole-sawing jobs. The planetary gear reduction balances the load on bearings and gears for increased tool life.

- Variable speed throttle
- Lightweight, compact drill

7802RA

Reversible Air Drill



Use this economical, high-quality 3/8” drill for all your general purpose drilling, honing, reaming, and hole-sawing. With its reversible 0.5 hp motor, you can also drive and remove screws — including backing out tight screws without a struggle.

- Reversible motor with a quick reverse lever
- Variable speed throttle for starting holes easily
- Smooth, lightweight, compact drill

7802RAKC

Reversible Air Drill / Keyless Chuck



With its industrial-grade 3/8” chuck, this economical choice includes high-quality features for general drilling and hole-sawing jobs. The planetary gear reduction balances the load on bearings and gears for increased tool life.

- Variable speed throttle
- Lightweight, compact drill
- Keyless chuck

7803A

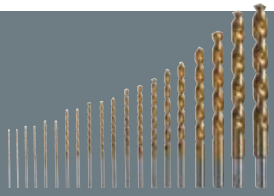
Air Drill



Here’s the economical choice for power — a high-quality air drill designed for drilling, hole-sawing, cylinder honing, and any other job that calls for a 1/2” size. Its quality features for long life include the industrial-grade 1/2” chuck, ball and needle bearing construction, and double-reduction planetary gearing.

- No-load speed of 500 rpm
- Auxiliary side handle

Drill Bits



No matter what your drilling needs may be, count on Ingersoll Rand for the bits required to get the job done.

Model	Free Speed rpm	Chuck Size in (mm)	Rated Power hp (kW)	Net Weight lb (kg)	Overall Length in (mm)	Average Air Consumption cfm (L/min)	Air Consumption @ Load cfm (L/min)	Sound Pressure / Power dBA	Air Inlet NPTF in	Min Hose Size in (mm)
1/4" MINI TOOL DRILL / DRIVER										
7804XP	1,600	1/4"	N/A	1.7 (0.78)	7.3" (184)	1.9 (54)	17.5 (495)	83.6 / 94.6	1/4"	3/8" (10)
3/8" CHUCK — RIGHT ANGLE DRILL										
7807R	1,800	3/8" (10)	0.33 (0.25)	2.4 (1.13)	8.1" (206)	4 (113)	17 (481)	89 / 102	1/4"	3/8" (10)
1/4" CHUCK SCREWDRIVER										
371	1,800	1/4" hex	0.44 (0.33)	2.5 (1.15)	7.4" (188)	4 (113)	29 (821)	78 / 91	1/4"	3/8" (10)

7804XP

1/4" Mini Drill / Driver

- Double-sided, adjustable speed settings provide variability for a broader range of applications
- Double-bearing construction for longer life, impressive balance, and reduced vibration
- Reversible motor control

7804K

1/4" Mini Drill / Driver Kit

- Includes 22-piece drill bit and driver set



Hard-hitting 5-vane motor delivers smooth and robust performance

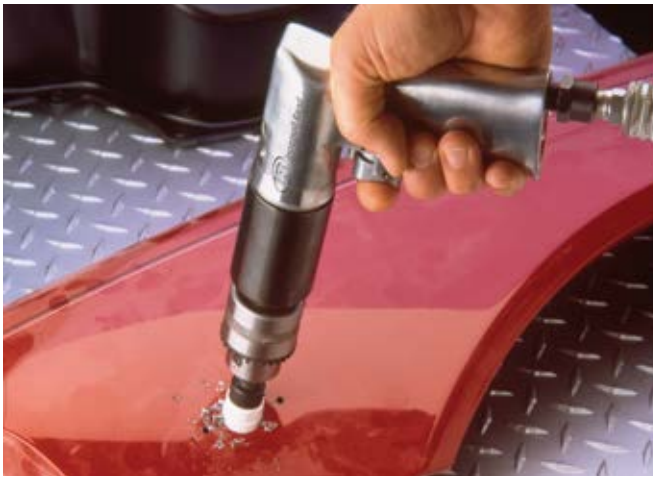
7807R

3/8" Angle Reversible Drill



The 7807R is an excellent choice for service work requiring a compact, low-profile angle head. It's a durable, reliable tool for drilling in all types of materials, including sheet metal, wood, and composites.

- Durable Jacobs multi-craft chuck
- Reversible, with convenient control
- Precision machine gearing ensures maximum power tranfer and durability



371

Reversible Pistol-grip Screwdriver



The 371 is an excellent choice for soft-draw applications. This tool is well-suited for service work on HVAC systems, instrument panels, and trim components. It delivers reliable performance for driving sheet metal, self-tapping, and wood screws.

- Positive action clutch, for full torque throughout rundown
- Convenient one-handed operation, with reverse control at trigger
- Variable speed throttle for easy starts

Replacement Chucks and Chuck Keys

Model	Capacity in (mm)	Thread in (mm)	Chuck Key Catalog Number	Tool Number
728-99-KC5	3/8” (10)	3/8” x 24” (10 x 610)	Keyless	7802, 7802R, 7811
728-99-KC8	1/2” (13)	3/8” x 24” (10 x 610)	Keyless	7806, 7803, 7803R, 7816R
7803-99	1/2” (13)	3/8” x 24” (10 x 610)	7803-253	7803, 7803R, 7816R



Drill Boots

Part Number	Description	For Use With
PROTECTIVE TOOL BOOTS		
7802-BOOT	Air drill boot with Ingersoll Rand logo printed on red boot	7802A, 7802RA, 7802RAKC
7803-BOOT	Air drill boot with Ingersoll Rand logo printed on red boot	7803A, 7803RA, 7803RAKC

Air Hammers

Ingersoll Rand air hammers are designed so you can let the tool do the work, whether it's cutting, punching, chipping, or scraping. Each air hammer comes with a coil spring retainer for fast and easy chisel changes. You can also buy a five-piece chisel set, or get an Ingersoll Rand air hammer kit, which includes both the hammer and the chisel set.



Air Hammers

Model	Shank Opening in (mm)	bpm @ 90 psi	Bore Diameter in (mm)	Stroke Length in (mm)	Weight lb (kg)	Length in (mm)	Average Air Consumption cfm (L/min)	Air Consumption @ Load cfm (L/min)	Sound Pressure / Power dBA	Air Inlet NPTF in	Min Hose Size in (mm)
115	0.401" (10.1)	5,000	0.75" (19)	1.63" (41)	2.6 (1.18)	6.1" (155)	2 (57)	14 (396)	101.3 / 114.3	1/4"	3/8" (10)
115K*	0.401" (10.1)	5,000	0.75" (19)	1.63" (41)	2.6 (1.18)	6.1" (155)	2 (57)	14 (396)	101.3 / 114.3	1/4"	3/8" (10)
116	0.401" (10.1)	3,500	0.69" (17.5)	2.63" (67)	3.4 (1.54)	7.8" (198)	3 (85)	15 (425)	104.4 / 117.4	1/4"	3/8" (10)
116K*	0.401" (10.1)	3,500	0.69" (17.5)	2.63" (67)	3.4 (1.54)	7.8" (198)	3 (85)	15 (425)	104.4 / 117.4	1/4"	3/8" (10)
117	0.401" (10.1)	2,000	0.69" (17.5)	3.5" (89)	4.1 (1.86)	9.9" (251)	3 (85)	14 (396)	103.5 / 116.5	1/4"	3/8" (10)
117K*	0.401" (10.1)	2,000	0.69" (17.5)	3.5" (89)	4.1 (1.86)	9.9" (251)	3 (85)	14 (396)	103.5 / 116.5	1/4"	3/8" (10)
121-K6	0.401" (10.1)	3,000	0.75" (19)	2.28" (58)	3.5 (1.59)	7.6" (194)	3 (85)	15 (425)	98.3 / 111.3	1/4"	3/8" (10)
121/Q*	0.401" (10.1)	3,000	0.75" (19)	2.28" (58)	3.5 (1.59)	7.6" (194)	3 (85)	15 (425)	98.3 / 111.3	1/4"	3/8" (10)
132*	0.401" (10.1)	1,725	0.56" (14)	4.00" (102)	3.4 (1.54)	8.5" (216)	3 (85)	11 (311)	N/A	1/4"	5/16" (8)

**Not pictured.*

115

Air Hammer



This powerful yet economical high-speed air hammer is designed for light exhaust system work and general cutting, chipping, and scraping.

- Up to 5,000 blows per minute
- Alloyed steel barrel and heat-treated piston for longer life
- Built-in power regulator and trigger control

Also available: 115K includes 5-piece chisel kit.

116

Air Hammer



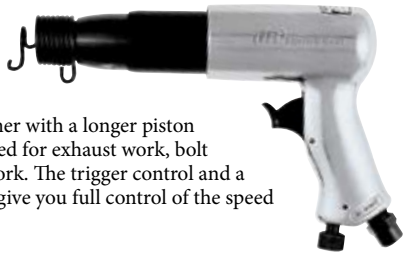
The economical air hammer for fast cutting action, especially for medium exhaust system, panel cutting, and general repair work.

- Up to 3,500 blows per minute
- Handles a range of cutting applications
- Longer-life alloyed steel barrel and heat-treated piston

Also available: 116K includes 5-piece chisel kit.

117

Air Hammer



An economical air hammer with a longer piston stroke, this tool is designed for exhaust work, bolt cutting, and front-end work. The trigger control and a built-in power regulator give you full control of the speed and power.

- Longer-stroke piston
- Alloyed steel barrel and heat-treated piston for longer life
- Up to 2,000 blows per minute

Also available: 117K includes 5-piece chisel kit.

121-K6

Air Hammer Kit



Make fast work of body panel crimping and cutting, bushing, driving, shearing, and general front-end work with this air hammer.

- 3,000 blows per minute
- Tough 1-piece alloy barrel
- Kit includes blow-molded case and 6-piece chisel set

Also available: 121/Q tool only.

9500 Chisel Set



A five-piece chisel set in a plastic pouch with 0.401" shank diameters to match your Ingersoll Rand air hammer.

Needle and Chisel Scaler

Model	Needle Quantity	Needle Size in (mm)	bpm @ Free Speed rpm	Bore Diameter in (mm)	Stroke Length in (mm)	Weight lb (kg)	Length in (mm)	Average Air Consumption cfm (L/min)	Air Consumption @ Load cfm (L/min)	Sound Pressure / Power dBA	Air Inlet NPTF in	Min Hose Size in (mm)
125	19	1/8″ (3.2)	4,600	1″ (25)	1.1″ (28.6)	6.2 (2.8)	18.3″ (465)	8 (226)	15 (425)	99.6 / 112.6	1/4″	5/16″(8)
125CI*	N/A	N/A	4,600	1″ (25)	1.1″ (28.6)	4.1 (1.9)	11.4″ (289)	8 (226)	15 (425)	99.6 / 112.6	1/4″	5/16″ (8)

**Not pictured.*

125

Needle Scaler

For surface preparation work involving the cleaning or removal of paint, rust, dirt, or weld slag, the 125 is a durable, dependable, and economical solution.

- 19 needles
- Each needle diameter measures 1/8”
- 4,600 blows per minute at free speed



125CI

Chisel Scaler

Same great features as the 125 only instead of needles, tool uses a chisel.

125 Chisels

Model	Type	Width* in (mm)
WF-14B-007	Wide Chisel	1-3/8” (35)
WF-14A-007	Spoon Chisel	1-3/8” (35)
WF-14C-008	Wide Chisel	2” (50)
WF-14D-008	Wide Chisel	3” (75)
PF2200-3231	Round nose	1/4” (6)
PF2200-3232	Cape chisel	1/4” (6)

**All chisels are 7″ in length.*



Replacement Needle Set

Part Number	Description	Width* in (mm)
PF2219-22-19	Needle set	1/8” (3)

**All chisels are 7″ in length.*

Spring Retainers

Model	Description	For Use With
115-183	Spring retainer	115, 116, 117
AVC10-183A	Spring retainer	121, 132
AVC1-83	Beehive retainer	121, 132

Replacement Chisels

Model	Description
9500	5-piece hammer chisel set
9505	Hammer spring retainer, 2 pack
9512	Quick change hammer retainer for 121, 132, 115, 116, 117
950011	Tailpipe cut-off tool
950012	Slotted panel cutter
950013	Rivet and bolt cutter
950014	Pneumatic scraper
950015	Pneumatic hammer chisel
950016	Pneumatic cold chisel, 8”
950017	Pneumatic cold chisel
950018	Muffler and tailpipe remover
950019	Pneumatic ball joint separator

Mini Air Tools



Our mini tools range in size between 5” and 7-1/4” in length, making them small enough to easily fit in the palm of almost anyone’s hand, and ideal for tight spaces and fine detail finish work. They perfectly complement our existing lineup of full-size automotive maintenance and repair tools — delivering the power, versatility, and durability that you have come to expect from Ingersoll Rand.

The mini tools feature composite housings with ergonomic textured grips to provide comfort and exceptional resistance to grease, chemicals, and extreme temperatures. They also feature lightweight, pistol-grip designs with thumb-actuated switches engineered for balance and one-handed operation, variable-speed triggers, and a complete accessory package.

Mini Tools

2101XP Specifications	
Drive - in	1/4”
Torque Range (forward) - ft-lb (Nm)	25 – 40 (34 – 54)
Max Torque (reverse) - ft-lb (Nm)	50 (68)
Free Speed - rpm	11,000
Blows Per Minute - bpm	1,250
Standard Bolt Capacity - in	5/16”
Net Weight - lb (kg)	1.4 (0.6)
Kit Weight - lb (kg)	3 (1.4)
Overall Length - in (mm)	6.3 (160)
Average Air Consumption - cfm	1.8
@ Load - cfm	18.2
Sound (pressure / power) - dBA	81.8/92.8
Air Inlet - in	1/4”
Min Hose Size - in	3/8”

2101XP-QC Specifications	
Drive - in	1/4”
Torque Range (forward) - ft-lb (Nm)	25 – 40 (34 – 54)
Max Torque (reverse) - ft-lb (Nm)	50 (68)
Free Speed - rpm	11,000
Blows Per Minute - bpm	1,250
Standard Bolt Capacity - in	5/16”
Net Weight - lb (kg)	1.4 (0.7)
Kit Weight - lb (kg)	3 (1.4)
Overall Length - in (mm)	6.8 (173)
Average Air Consumption - cfm	1.8
@ Load - cfm	18.2
Sound (pressure / power) - dBA	81.8/92.8
Air Inlet - in	1/4”
Min Hose Size - in	3/8”

2102XP Specifications	
Drive - in	3/8”
Torque Range (forward) - ft-lb (Nm)	25 – 40 (34 – 54)
Max Torque (reverse) - ft-lb (Nm)	50 (68)
Free Speed - rpm	11,000
Blows Per Minute - bpm	1,250
Standard Bolt Capacity - in	5/16”
Net Weight - lb (kg)	1.4 (0.6)
Kit Weight - lb (kg)	3 (1.4)
Overall Length - in (mm)	6.3 (160)
Average Air Consumption - cfm	1.8
@ Load - cfm	18.2
Sound (pressure / power) - dBA	81.8/92.8
Air Inlet - in	1/4”
Min Hose Size - in	3/8”



2101XP

1/4” Mini Impactool

- Powerful impact mechanism is engineered to deliver 45 ft-lb (61 Nm) of torque (forward) where you need it most
- Hard-hitting five-vane motor delivers smooth and robust performance
- Easily accessible forward / reverse switch for one-handed operation



2101XP-QC

1/4” Quick Change Mini Impactool

- Powerful impact mechanism is engineered to deliver 45 ft.-lbs. (61 Nm) of torque (forward) where you need it most
- Hard-hitting 5-vane motor delivers smooth and robust performance
- Easily accessible forward/reverse switch for one-handed operation
- Quick change feature allows for simple and convenient attachment exchange



2102XP

3/8” Mini Impactool

- Powerful impact mechanism is engineered to deliver 45 ft.-lbs. (61 Nm) of torque (forward) where you need it most
- Hard-hitting 5-vane motor delivers smooth and robust performance
- Easily accessible forward/reverse switch for one-handed operation
- Ideal for those hard-to-reach places where conventional tools cant go

Mini Tools

7804XP Specifications	
Drive - in	1/4”
Torque - ft-lbs (Nm)	1.1 (1.5)
Free Speed - rpm	1,600
Net Weight - lb (kg)	1.7 (0.8)
Kit Weight - lb (kg)	2.7 (1.2)
Overall Length - in (mm)	7.3 (185)
Average Air Consumption - cfm	1.9
@ Load - cfm	17.5
Sound (pressure / power) - dBA	83.6/94.6
Air Inlet - in	1/4”
Min Hose Size - in	3/8”

3103XP Specifications	
Drive - in	1/4”
Free Speed - rpm	15,000
Rated Power - hp	0.2
Net Weight - lb (kg)	1.0 (0.5)
Kit Weight - lb (kg)	2.7 (1.2)
Overall Length - in (mm)	5 (127)
Average Air Consumption - cfm	2.1
@ Load - cfm	19.4
Sound (pressure / power) - dBA	84.9/95.9
Air Inlet - in	1/4”
Min Hose Size - in	3/8”

3128XP Specifications	
Pad Size - in (mm)	3” (75)
Free Speed - rpm	15,000
Rated Power - hp	0.2
Net Weight - lb (kg)	1.1 (0.5)
Kit Weight - lb (kg)	2.8 (1.3)
Overall Length - in (mm)	5.5 (140)
Average Air Consumption - cfm	2.1
@ Load - cfm	14.7
Sound (pressure / power) - dBA	84.2/96.9
Air Inlet - in	1/4”
Min Hose Size - in	3/8”

3129K Specifications	
Pad Size - in (mm)	3” (75)
Free Speed - rpm	6,000
Rated Power - hp	0.3
Net Weight - lb (kg)	1.3 (0.6)
Kit Weight - lb (kg)	2.9 (1.3)
Overall Length - in (mm)	6” (152)
Average Air Consumption - cfm	2.2
@ Load - cfm	19.9
Sound (pressure / power) - dBA	83.5/94.85
Air Inlet - in	1/4”
Min Hose Size - in	3/8”



7804XP

1/4” Mini Drill/Driver

- Hard-hitting five-vane motor delivers smooth and robust performance
- Double-sided, adjustable speed settings provide variability for a broader range of applications
- Double-bearing construction for longer life, impressive balance, and reduced vibration
- Reversible motor control



3103XP

Mini Surface Prep Sander

- Ideal for the removal of rust, surface deposits, and welds in hard-to-reach areas
- Ball-bearing construction enhances durability and smooth power delivery
- Includes 2” and 3” medium backing pads



3128XP

Mini Random Orbital Sander

- Engineered for the most aggressive sanding applications
- Delivers swirl-free finishes when feather edging, removing rust, preparing metal surfaces, or smoothing welds
- Durable ball-bearing construction ensures smooth power delivery
- Includes 3” hook & loop style backing pad



3129XP

Mini Polisher

- Ideal for buffing and polishing paint,metal, and plastic surfaces to a highgloss finish
- Free speed of 6,000 rpm delivers the same performance of polishers twice the size
- Double-sided, adjustable speed settings provide variability for a broader range of applications
- Includes 3” hook & loop style backing pad

Mini Tool Kits

2101K
Mini 1/4" Impactool Kit



Kit Includes 2101XP and 10-piece 1/4" socket set

7804K
Mini 1/4" Drill/Driver Kit



Kit Includes 7804XP and 22-piece drill bit and driver set

3103K
Mini Surface Prep Sander Kit



Kit Includes 3103XP and 14-piece 2" and 3" sanding discs

3128K
Mini Random Orbital Sander Kit



Kit Includes 3128XP and 71-piece hook & loop discs

3129K
Mini Polisher Kit



Kit Includes 3129XP and 4-piece hook & loop pads

Mini Tool Accessories

Part Number	Description
MINI POLISHER ACCESSORIES	
03H-PAD-HL	3" hook-and-loop backer pad (fits polisher and RO sander)
03F-SFTWL-6	3" hook-and-loop wool pad (for compounding)
03F-MEDFM-6	3" hook-and-loop waffle pad white (for compounding)
03F-SFTFM-6	3" hook-and-loop waffle pad yellow (for polishing)



3" hook-and-loop backer pad



3" hook-and-loop wool pad



3" hook-and-loop waffle pad, white



3" hook-and-loop waffle pad, yellow



6-piece box as shown

Part Number	Description	Grit
3" HOOK AND LOOP AO PAPER		
03H-040AO-50	3" hook-and-loop aluminum oxide disc	40
03H-080AO-50	3" hook-and-loop aluminum oxide disc	80
03H-100AO-50	3" hook-and-loop aluminum oxide disc	100
03H-120AO-50	3" hook-and-loop aluminum oxide disc	120
03H-180AO-50	3" hook-and-loop aluminum oxide disc	180
03H-220AO-50	3" hook-and-loop aluminum oxide disc	220
03H-240AO-50	3" hook-and-loop aluminum oxide disc	240
03H-320AO-50	3" hook-and-loop aluminum oxide disc	320
03H-360AO-50	3" hook-and-loop aluminum oxide disc	360
03H-400AO-50	3" hook-and-loop aluminum oxide disc	400
03H-500AO-50	3" hook-and-loop aluminum oxide disc	500
03H-800AO-50	3" hook-and-loop aluminum oxide disc	800





50-piece box as shown

Air Compressors and System Components



For more than 75 years, Ingersoll Rand has been the world leader in air compressors and air system accessories. We understand the needs and requirements for air systems and the business demands that you face every day. Rising energy costs and reduced margins require increased reliability and efficiency from not only your air compressor, but your entire air system. Simply stated, your air system is much more than an air compressor. It's the complete system — the piping, filters, dryers, drains, hoses, valves, and point-of-use tools.



Selecting an Air Compressor — FAQs

How will compressed air be used?
The type of work being performed is probably the most important factor in selecting a compressor.

Where will the compressor be located?
Indoors: heated environment to prevent air lines from freezing while providing sufficient ventilation to cool compressor where elevated temperatures may exist. Outdoors: protection against ambient environment and provisions for cold-weather starting.

How much pressure (psi) is needed?
Compressor discharge pressure must exceed the psi requirement of all pneumatic tools or equipment being operated.

How much airflow (cfm) is needed?
Cubic feet per minute (cfm) is the measure of airflow the compressor can create. The measurement cfm is stated in two different forms: piston displacement (pd) or actual cubic feet per minute (acfm). Always consider acfm, as it reflects the amount of useable compressed air.

What horsepower is required?
Horsepower is directly proportional to the cfm rating of the compressor. The higher the horsepower, the more air (cfm) the compressor can deliver. Do not rely solely on horsepower when specifying or selecting an air compressor.

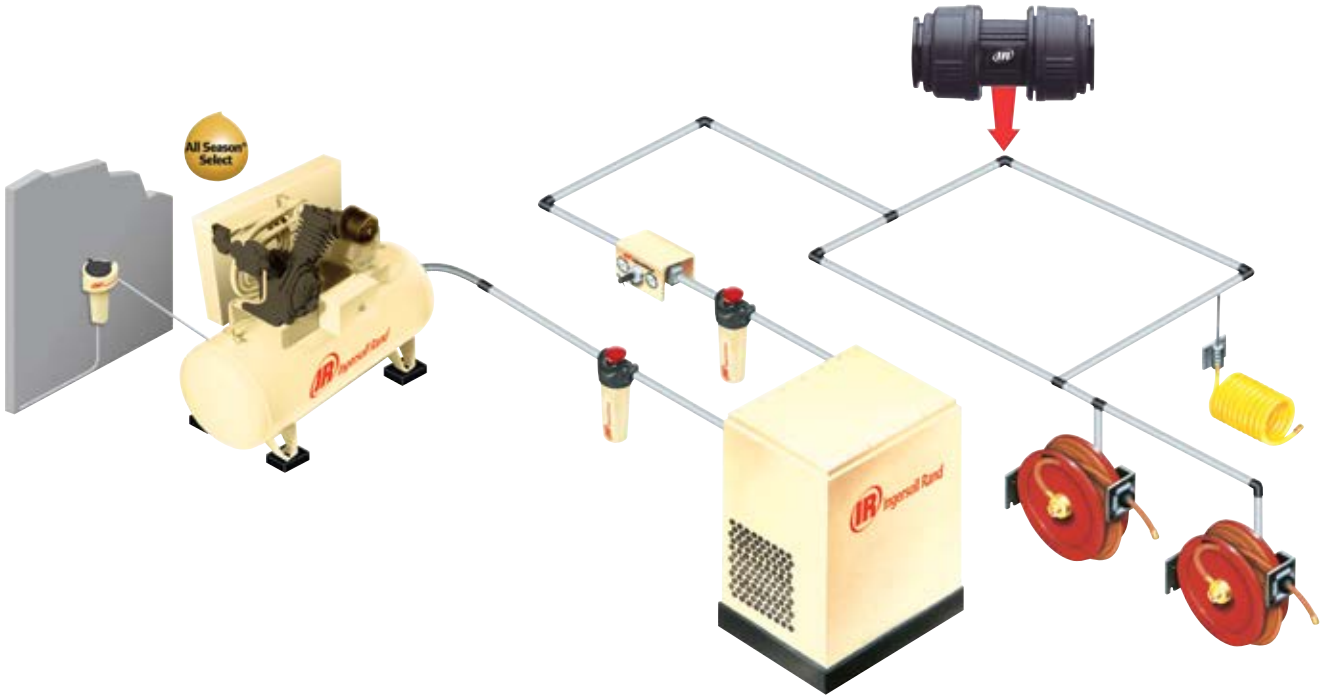
What type and size of tank is needed?
The tank provides a reserve of air to meet peak flow and pressure demands. The larger the receiver, the more reserve available. Tanks are available in vertical and horizontal designs; configuration is dependent upon available floor space.

What are the electrical requirements?
Identify available incoming electrical service before specifying an air compressor. Always have a qualified electrician review electrical requirements.



Know Your Power Source

All residential and commercial buildings have 115 V / 60 Hz power. Many residential, commercial, and industrial buildings have 230 V / single-phase / 60 Hz power, but this should be confirmed. When electric power is not available, select a gas engine-driven compressor. Do not use a gas engine compressor indoors.



Single and Two-stage Air Compressors

Single-stage

Single-stage models compress air to a final pressure in one stroke. They generally are used for pressures between 70 and 90 psi (maximum pressure to 135 psi).

- Oversized belt wheel provides reliable design and cooler operation
- Durable cast-iron cylinders, heads, and frame are designed for continuous operation and extended pump life
- Extended service intervals — Ingersoll Rand synthetic lubricant provides 2,000-hour oil change intervals (four times longer than mineral-based lubricants)
- High-efficiency stainless steel finger valves are simple, efficient, and easy to maintain
- Manual thermal overload protection of the motor— no starter required
- Sight glass makes it easy to check oil level



Two-stage

A two-stage model compresses air to an intermediate pressure in the first stage, removes heat compression through an intercooler, and compresses air to a final pressure in a second compression stage. Two-stage compressors are more efficient and are generally used for pressures above 100 psi (maximum pressure to 175 psi).

- Two-stage design provides 175 psi operation
- Removable cylinders are easy to repair and provide even 360° cooling, which helps eliminate hot spots
- One-piece connecting rod for fewer wear parts
- Low oil level switch provides constant protection
- Centrifugal unloader ensures loadless starts, providing maximum starter protection
- Finned copper intercooler runs cooler in even the most demanding conditions
- Overhung crankshaft is precision-balanced to run smoothly and quietly
- Splash lubrication is simple and reliable



Single-stage Air Compressors

Model	Running Power hp	Voltage DC volts	Tank Capacity gal	Airflow @ 90 psi acfm	Max psi	Air NPT Outlet in	Package Dimensions L x W x H in	Net Weight lb
SINGLE-STAGE UNIT — TWIN STACK								
P1IU-A9	2	115-1-60	4.5 twin	4.4	125	3/8″	21″ x 15″ x 17″	58
SINGLE-STAGE UNITS — GARAGE MATE								
P1.5IU-A9	2	115-1-60	20 vert	5.2	135	3/8″	22″ x 23″ x 43″	200
SS3F2-GM	2	115-1-60	30 horiz	5.7	135	3/8″	46″ x 25″ x 35″	185

Twin-stack

Single-stage — Portable

The Ingersoll Rand twin-stack air compressor is designed to provide power, durability, and portability on the jobsite. Built to last, this oil-lube compressor with durable cast-iron cylinders is designed for 100% continuous-duty applications. The twin-stack includes a 1/4″ universal coupler, conveniently mounted regulator and pressure gauge, 4.5-gallon twin tanks, All-Season Select® lubricant, and a power cord.

- Lightweight and compact
- Durable cast-iron construction
- Extended pump life — double the life of similar oil-free products



P1IU-A9

Garage Mate

Single-stage — Portable

Designed for professionals and serious do-it-yourselfers, the Garage Mate compact compressor delivers maximum air for impact guns, ratchets, grinders, drills, nail guns, paint sprayers, sanders, and more. This portable single-stage compressor provides the power you need to get the job done faster.

- 100% cast-iron cylinders and frame
- Manual thermal overload motor protection
- Belt-driven for quiet operation – 80 dBa



P1.5IU-A9

Single-stage Air Compressors

Model	Running Power hp	Voltage DC volts	Engine	Tank Capacity gal	Airflow @ 90 psi acfm	Max psi	Air NPT Outlet in	Package Dimensions L x W x H in	Net Weight lb
WHEELBARROW SINGLE-STAGE — ELECTRIC-DRIVEN									
SS3J2-WB	2	115 / 230-1-60	N/A	8 twin	5.7	135	3/8″	43″ x 18″ x 25″	175
SS3J3-WB	3	230-1-60	N/A	8 twin	11.3	135	3/8″	43″ x 18″ x 25″	175
WHEELBARROW SINGLE-STAGE — GASOLINE-DRIVEN									
SS3J5.5GH-WB	5.5	N/A	Honda	8 twin	11.8	135	3/8″	43″ x 18″ x 25″	175

Wheelbarrow

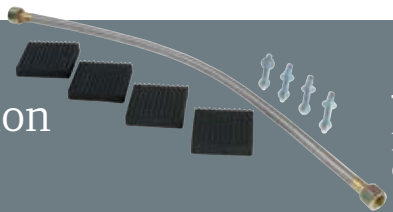
Single-stage — Portable

Ingersoll Rand electric and gas engine-driven wheelbarrow air compressors are lightweight with a low-profile design to provide maximum maneuverability. Built to last, these cast-iron, oil-lube compressors are designed for 100% continuous-duty applications. Includes pressure switch, regulator, and gauge; two quick disconnects to power multiple tools; and twin 8-gallon capacity tanks. Electric model features a belt drive to provide quiet operation (76 dBA), a 6′ power cord, and dual voltage (2-hp model only). Where electric power is not readily available, the gas-driven model is powered by either a 5.5-hp Honda or Briggs & Stratton high-performance engine.

- Designed for maximum maneuverability on the jobsite
- Durable cast iron construction
- 100% continuous-duty for tough applications
- Includes two quick disconnects to power multiple tools



SS3J5.5GH-WB



Installation Kits

The complete line of Ingersoll Rand Installation Kits can be found on page 66. The complete line of Ingersoll Rand air compressor accessories can be found on pages 63-66.

Single-stage Air Compressors

Model	Running Power hp	Voltage DC volts	Tank Capacity gal	Airflow @ 90 psi acfm	Max psi	Air NPT Outlet in	Package Dimensions L x W x H in	Net Weight lb
SINGLE-STAGE — ELECTRIC-DRIVEN								
SS3L3	3	230-1-60	60 vert	11.3	135	3/8″	20″ x 23″ x 66″	300
SS5L5	5	230-1-60	60 vert	18.1	135	1/2″	20″ x 30″ x 71″	310

Single-stage

Electric-driven

Our single-stage electric air compressors are ideal for almost anyone — from the do-it-yourselfer to the professional air compressor user. Each compressor features durable cast iron construction, 100 percent continuous-duty cycle for the toughest applications, and extended pump life for years of trouble-free service.

- Industrial-quality design
- Durable cast-iron construction
- 135 psi maximum operating pressure



SS3L3



SS5L5

Two-stage Air Compressors

Model	Running Power hp	Engine	Tank Capacity gal	Airflow @ 175 psi acfm	Max psi	Air NPT Outlet in	Package Dimensions L x W x H in	Net Weight lb
TWO-STAGE TYPE 30 — GAS-DRIVEN								
2475F14G	14	Kohler*	30 horiz	25	175	1/2″	44″ x 22″ x 46″	424
2475F13GH	13	Honda*	30 horiz	25	175	1/2″	44″ x 22″ x 41″	430

**Includes alternator.*

Type 30 Series

Gas-driven

Ingersoll Rand Type 30 two-stage compressors meet the needs of fleet or field service applications. Featuring truck-bed mounting, Type 30 units include electronic ignition, idle engine control, a 30-gallon ASME receiver, an OSHA-approved, fully enclosed belt guard, a weather-resistant powdercoat paint finish, and an extended pump life.

- Durable cast-iron construction
- 175 psi maximum operating pressure
- Easy installation
- 100% duty cycle
- Two-year pump warranty with purchase of start-up kit



2475F14G



2475F13GH

Two-stage Air Compressors

Model	Running Power hp	Tank Capacity gal	Airflow @ 175 psi acfm	Max psi	Air NPT Outlet in	Package Dimensions L x W x H in	Net Weight lb	Start-up Kit Part Number
TYPE 30 STANDARD PACKAGE								
2340L5-V	5	60 vert	14.7	175	1/2″	20″ x 33″ x 69″	400	32305880
2340N5-V	5	80 vert	14.7	175	1/2″	24″ x 33″ x 67″	475	32305880
2475N5-V	5	80 vert	16.8	175	1/2″	26″ x 38″ x 70″	500	32305880
2475N7.5-V	7.5	80 vert	24	175	3/4″	26″ x 38″ x 70″	500	32305880
2545E10-V	10	120 horiz	35	175	3/4″	73″ x 28″ x 51″	835	32305898
2545EK10-V	10	120 vert	35	175	3/4″	44″ x 32″ x 82″	985	32305898
7100E15-V	15	120 horiz	50	175	3/4″	72″ x 29″ x 57″	1,035	32305898

**Available voltages: 230/1/60 (5 – 7.5 hp only), 200/1/60 (2475, 5 hp), 200/3/60, 230/3/60, 460/3/60.*
Please specify voltage required when placing your order.

Type 30 Value Package

5 to 15 Horsepower

Ingersoll Rand, the world leader in air power, brings industrial-class, two-stage compressors to automotive applications. Featuring a cast-iron pump with splash lubrication for efficient operation and easy serviceability, this new range delivers non-stop performance and reliability for commercial or automotive service applications. Type 30 compressors have been designed to generate maximum air output at 175 psi, with more than 10,000 hours of durability.

- 100% cast iron cylinder head with deep-groove directional cooling fins
- High-efficiency stainless steel valves
- Oversized industrial-grade bearings for extended pump life
- High-efficiency intercooler
- 100% cast iron pump
- High-efficiency inlet air filter with sound attenuation baffles
- Balanced pistons for maximized efficiency and mimimized vibration
- Oversized cast-iron balanced belt wheel to allow continuous-duty operation
- Two-year pump warranty with purchase of start-up kit



Purchase an Ingersoll Rand start-up kit and increase the warranty on your pump from one year to two years!



2475N7.5

Electric Drain Valves



Ingersoll Rand electric drain valves (EDV) are full-feature automatic electronic drain valves that deliver drier air by removing condensate from compressors, receivers, dryers, aftercoolers, filters, and drip legs. Ingersoll Rand air compressor accessories can be found on pages 63-66.

Two-stage Air Compressors

Model	Running Power hp	Tank Capacity gal.	Airflow @175 psi acfm	Max psi	Air NPT Outlet in	Package Dimensions L x W x H in	Net Weight lb
2545E10-VP	10	120 horiz	35	175	3/4″	72″ x 30″ x 56″	835
2545K10-VP	10	120 vert	35	175	3/4″	44″ x 32″ x 82″	830

Type 30 Value Plus Packages

For applications that demand a heavier-duty cycle. Step up to this enhanced version of our base package. It is ideal for light industry applications. The Value Plus Package comes factory-fitted with options for unmatched reliability in most diversified applications

- 100% Cast-Iron Pump for durability
- 100% Continuous Duty Rating
- Designed to run 24 hours a day
- Two-year pump warranty with purchase of IR start-up kit
- 175 Maximum PSI for greater storage capabilities
- Magnetic starter
- ASME rated Storage Tank
- Auto Start & Stop Control
- Electronic Drain Valve
- Air-cooled After-cooler
- Nation-wide Service Coverage



Two-stage Air Compressors

Model	Running Power hp	Tank Capacity gal	Airflow @ 175 psi acfm	Max psi	Air NPT Outlet in	Package Dimensions L x W x H in	Net Weight lb	Start-up Kit Part Number
TYPE 30 PREMIUM PACKAGE								
2475N5-P	5	80 vert	16.8	175	3/4″	30″ x 37″ x 73″	500	32305880
2475N7.5-P	7.5	80 vert	24	175	3/4″	26″ x 38″ x 70″	500	32305880
2545E10-P	10	120 horiz	35	175	3/4″	72″ x 30″ x 56″	835	32305898
2545K10-P	10	120 vert	35	175	3/4″	44″ x 32″ x 82″	850	32305898
7100E15-P	15	120 horiz	50	175	1″	72″ x 30″ x 56″	1,035	32305898

**Available voltages: 230/1/60 (5 – 7.5 hp only), 200/3/60, 230/3/60, 460/3/60. Please specify voltage required when placing your order.*

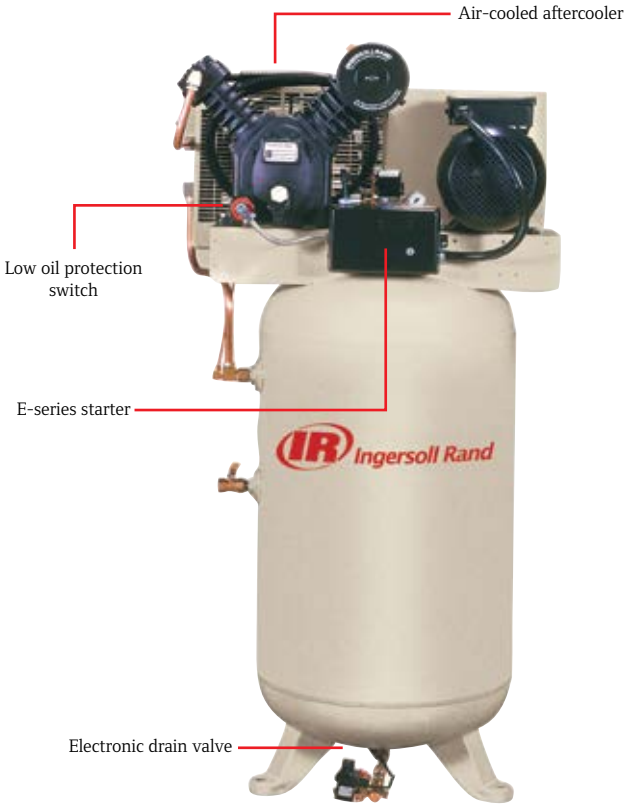
Type 30 Premium Packages

In addition to the features on our Value Packages, the Premium Package models include:

- Air-cooled aftercooler to help remove additional moisture
- Low oil protection switch to prevent the pump from running dry
- Electronic drain valve that automatically drains water from compressor tank
- Two-year pump warranty with purchase of start-up kit
- Magnetic motor starter



Purchase an Ingersoll Rand start-up kit and increase the warranty on your pump from one year to two years!



2475N7.5-P

Lubricants



All-Season Select lubricant is a synthetic, all-temperature blend designed to increase efficiency, reduce wear, and prevent carbon build-up.
Use of All-Season Select lubricant extends pump warranty to two years.
Ingersoll Rand air compressor accessories can be found on pages 63-66.

Rotary Screw Air Compressors

Rotary screw models compress air through two oil-flooded, intermeshed helical screws. This form of compression offers maximum efficiency at much higher air quality levels than reciprocating models with constant pressure capabilities. Rotary screw air compressors can operate 24/7, continuous-duty at extremely quiet noise levels compared to reciprocating compressors, and have up to five times the operating life.

- Low sound — operates at low sound levels of 64 to 69 dBA
- Closely maintained pressure delivers pulse-free air
- 9,000-hour / 2-year coolant — Ultra-Plus coolant offers superior separation for lower coolant make-up, and will not varnish or sludge; improved cooling characteristics reduce operating temperatures, improving the life of the airend



High-efficiency Integrated Compression Module



Rotary Screw Airends

UP Series 5-15 HP

Model	Running Power hp	Tank Capacity gal	Airflow acfm	Discharge Pressure psi	Air NPT Outlet in	Package Dimensions in	Net Weight lb
UP6-5-125	5	80	18.5 @ 125 psi	125	3/4″	53.6″ x 28.9″ x 60.7″	925
UP6-5-150	5	80	16 @ 150 psi	150	3/4″	53.6″ x 28.9″ x 60.7″	925
UP6-7.5-125	7.5	80	28 @ 125 psi	125	3/4″	53.6″ x 28.9″ x 60.7″	925
UP6-7.5-150	7.5	80	25 @ 150 psi	150	3/4″	53.6″ x 28.9″ x 60.7″	925
UP6-10-125	10	80	38 @ 125 psi	125	3/4″	53.6″ x 28.9″ x 60.7″	925
UP6-10-150	10	80	34 @ 150 psi	150	3/4″	53.6″ x 28.9″ x 60.7″	925
UP6-15c-125	15	80	55 @ 125 psi	125	3/4″	53.6″ x 28.9″ x 60.7″	925
UP6-15c-150	15	80	50 @ 150 psi	150	3/4″	53.6″ x 28.9″ x 60.7″	925

Our 5-15HP UP Series rotary screw air compressors provide best-in-class performance in rotary screw technology. Each compressor package comes standard with 230 / 460-3-60 ODP electric motor, air-cooled aftercooler to reduce discharge air temperatures, full voltage motor starter that is mounted and wired (wired for 230-3-60 voltage standard), dual control (auto start and stop, constant speed control), low sound / full sheet metal enclosure, package pre-filter, 9,000-hour rated Ultra- Plus coolant, spin-on oil filter and separator element, A.S.M.E coded horizontal receiver tank with electric drain valve, and NEMA-1 electrical protection. These models operate at 64 to 69 dBA.

Recommended accessories:

- Installation kit (page 79)
- Maintenance kit (page 79)



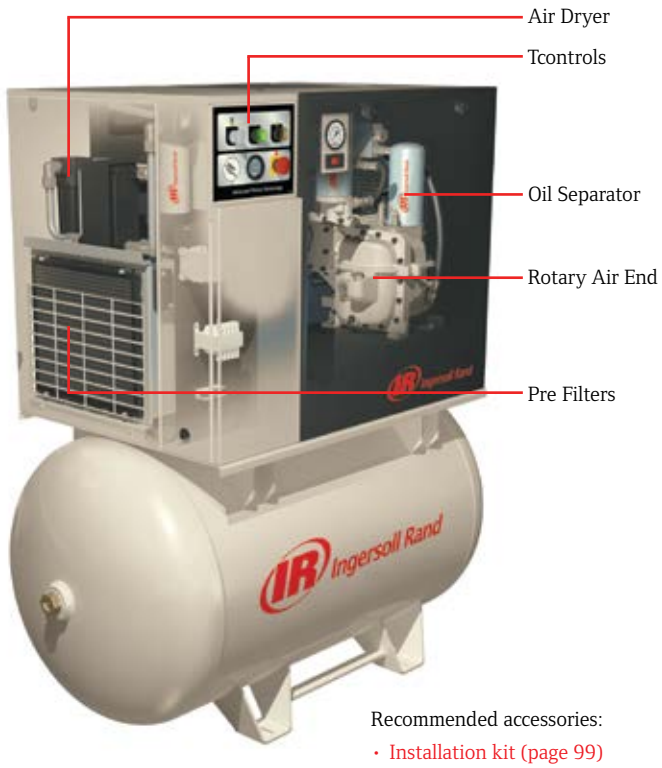
Rotary Screw Air Compressors

UP Series 5-15 HP Total Air System

Model	Running Power hp	Tank Capacity gal	Airflow acfm	Operating Pressure psi	Discharge Pressure psi	Air NPT Outlet in	Package Dimensions in	Net Weight lb
UP6-5TAS-125	5	80	18.5 @ 125 psi	125	115	3/4″	53.6″ x 28.9″ x 60.7″	1,000
UP6-5TAS-150	5	80	16 @ 150 psi	150	140	3/4″	53.6″ x 28.9″ x 60.7″	1,000
UP6-7.5TAS-125	7.5	80	28 @ 125 psi	125	115	3/4″	53.6″ x 28.9″ x 60.7″	1,000
UP6-7.5TAS-150	7.5	80	25 @ 150 psi	150	140	3/4″	53.6″ x 28.9″ x 60.7″	1,000
UP6-10TAS-125	10	80	38 @ 125 psi	125	115	3/4″	53.6″ x 28.9″ x 60.7″	1,000
UP6-10TAS-150	10	80	34 @ 150 psi	150	140	3/4″	53.6″ x 28.9″ x 60.7″	1,000
UP6-15cTAS-125	15	80	55 @ 125 psi	125	115	3/4″	53.6″ x 28.9″ x 60.7″	1,000
UP6-15cTAS-150	15	80	50 @ 150 psi	150	140	3/4″	53.6″ x 28.9″ x 60.7″	1,000

Are you looking to save space and installation cost by having a complete clean, dry air system in a single package? The UP Series 5-15 HP Total Air System (TAS) is an innovative solution to your compressed air needs. The TAS has the same features and benefits of the standard UP Series 5-15HP unit, but also comes standard with an Energy Star cycling refrigerated air dryer with stainless steel heat exchanger, integrated compressor and dryer controls for optimum operation, panel-mounted dew point indicator, dual filters (general purpose and high-efficiency) mounted and piped, single-point condensate drain system with electric drain (115-volt), and high-efficiency moisture separator. These models operate at 64 to 69 dBA.

- Two coalescing filters: general purpose and high-efficiency
- Cycling refrigerated air dryer
- Pre-piped, single-point condensate drain system
- Eliminates up to 80 percent of traditional installation cost of individual air treatment equipment
- Intelligent design separates temperature-sensitive components and air treatment center on “cool side” from heat generating airend on the “hot side”



Recommended accessories:

- Installation kit (page 99)
- Maintenance kit (page 99)

Maintenance Kits



The competitively priced Maintenance Kit includes all parts required for every 3,000-hour or annual maintenance of your UP-Series rotary compressor. Ingersoll Rand air compressor accessories can be found on pages 63-66.

Refrigerated Dryers

Ingersoll Rand refrigerated air dryers protect your tools, machinery, and equipment from harmful moisture while saving energy and reducing system downtime. The unique design improves dryer efficiency and minimizes maintenance by using fewer moving parts. The easy-to-read diagnostic controls provide a constant indication of dryer performance. Units are compact, lightweight, and can be easily installed. Ingersoll Rand refrigerated air dryers are ideal for general industrial applications, and they use environmentally friendly refrigerants.

Protect your downstream equipment by preventing 100% saturated compressed air from rusting tools, and washing away lubricants with a refrigerated dryer. Ingersoll Rand's ISO class 6 refrigerated dryer can handle air flows from 7 to 212 SCFM. The dryer's corrosion resistant heat exchanger is reliable and operationally efficient with low pressure drop and optimized dewpoint performance. An enhanced refrigeration control-system and high-efficiency stainless steel moisture-separation ensure a steady long-term supply of dry air. A variable speed fan further ensures continuous heat removal. Simple controls provide user-friendly operation and a fully adjustable programmable electronic drain valve helps minimize air loss.

Enhance your system's protection by adding superior Ingersoll Rand air filters found on page 91. Continuous long-life operation from your refrigerated dryer is enhanced by installing a dryer pre-filter. Prior to the dryer use the recommended GP particulate filters. HE coalescing oil removal filters virtually eliminate cost due to ruined product finishes, scrapped materials or replacement of pneumatic tools and manufacturing equipment destroyed by contaminated air.



Sizing Table

Site conditions will affect the performance of your refrigerated dryer. Determine your site conditions and multiply the dryer capacity by each factor to determine the air flow that dryer is capable of.

Dryer Inlet Air Temp °F	Correction Factor	Ambient Air Temp °F	Correction Factor	Inlet Pressure psig	Correction Factor
80	1.3	80	1.1	73	0.85
100	**1**	**100**	**1**	**102**	**1**
120	0.6	110	0.83	145	1.15
140	0.25	122	0.65	174	1.2
NA	NA	NA	NA	203	1.24

Model	Capacity scfm	Nominal Power Consumption kW	Voltage	Connection size	in			Max Inlet Temp °F	Weight lb
D12IN	7	0.16	115/1/60	1/2″	12	16	16	140	40
D18IN	11	0.16	115/1/60	1/2″	12	16	16	140	40
D25IN	15	0.16	115/1/60	1/2″	12	16	16	140	40
D42IN	25	0.21	115/1/60	1/2″	16	18	18	140	60
D54IN	32	0.37	115/1/60	1/2″	16	18	18	140	62
D72IN	42	0.37	115/1/60	1/2″	16	18	18	140	62
D108IN	64	0.48	115/1/60	1/2″	16.5	21.5	22.5	140	77
D144IN	85	0.57	115/1/60	1/2″	16.5	21.5	22.5	140	82
D180IN	106	0.71	115/1/60	1″	16.5	21.5	22.5	140	104
D300IN	176	1.25	230/1/60	1-1/2″	20	25.5	38.5	140	192
D360IN	212	1.25	230/1/60	1-1/2″	20	25.5	38.5	140	192

Air Compressor Accessories

Electric Drain Valves (EDV)

Ingersoll Rand electric drain valves (EDV) are full-feature automatic electronic drain valves that deliver drier air by removing condensate from compressors, receivers, dryers, aftercoolers, filters, and drip legs.



Features / Benefits

- Extend life of pneumatic equipment and tools
- Eliminate manual draining
- Prevent rusting and clogging
- 2-year warranty
- Maximum 250 psi

Voltage 110 / 120 V	Voltage 230 / 240 V	Inlet Pipe Connection	Outlet Pipe Connection	Orifice
ELECTRONIC DRAIN VALVES (EDV)				
37995925	37995933	0.5 NPT	0.25 NPT	3/32″
54410931	37995909	0.5 NPT	0.25 NPT	7/16″
37995891	37995917	0.5 NPT	0.5 NPT	7/16″
38000865	38000873	0.5 BSP	0.25 BSP	7/16″
38000808	38000881	0.5 BSP	0.5 BSP	7/16″
54579248*	97339402	JIC-14	0.25 NPT	3/32″

**JIC connection for field retrofits on T30 compressors.*

Part Number	Description
ELECTRONIC DRAIN VALVES (EDV)	
54381090	1/2″ x 1/4″ male NPT valve connection
37996337	1/2″ x 1/4″ male NPT valve connection
38000154	Stainless steel filter screen
54381090	JIC — 14″ x 1/4″ NPT

In-line Air Filters

Ingersoll Rand coalescing filters save energy and protect your tools, machinery, and equipment from harmful contaminants by effectively removing solid particulates, liquid water, oil, and aerosols from compressed air.

Unique in design, these in-line filters allow simple and fast maintenance with a patented zero-clearance element removal. Lighted indication ensures continued filtration performance. When it is time to replace the filter element, the lighted Element Change Indicator will illuminate with a rapid flash allowing your process to be continuously protected while minimizing the pressure drop in the compressed air system – saving you money.

Our general purpose filters remove particulates down to 1.0 micron, which meets general industry requirements for coarse filtration. Our high-efficiency filters remove contaminants down to 0.01 micron, which meets difficult compressed air filtration requirements.



"G" General Purpose Filter Model*	"H" High-Efficiency Filter Model**	Flow Rating	Max Pressure psi	Inlet/Outlet NPT	Micron Rating		Dimensions	
					"G" Models	"H" Models	H	W
F35IG	F35IH	21	250	1/2"	1	0.01	10.0"	3.0"
F71IG	F71IH	42	250	3/4"	1	0.01	12.25"	3.84"
F108IG	F108IH	64	250	3/4"	1	0.01	12.25"	3.84"
F144IG	F144IH	85	250	1"	1	0.01	13.4"	5.08"
F178IG	F178IH	105	250	1"	1	0.01	13.4"	5.08"
F212IG	F212IH	125	250	1"	1	0.01	13.4"	5.08"
F395IG	F395IH	233	250	1-1/2"	1	0.01	16.9"	5.08"
F424IG	F424IH	250	250	1-1/2"	1	0.01	16.9"	5.08"

**G = General Purpose, 1 micron rating*

*** H = High Efficiency, 0.01 micron rating*

Replacement Element	Part Number
GENERAL PURPOSE REPLACEMENT FILTER ELEMENTS	
F35IG	85565505
F71IG	85565547
F108IG	85565588
F144IG	85565620
F178IG	85565661
F212IG	85565703
F395IG	85565745
F424IG	85565786
HIGH-EFFICIENCY REPLACEMENT FILTER ELEMENTS	
F35IH	85565513
F71IH	85565554
F108IH	85565596
F144IH	85565638
F178IH	85565679
F212IH	85565711
F395IH	85565752
F424IH	85565794

Air Compressor Accessories

Start-up Kits for Air Compressors

Start-up kits include all the parts needed to maintain your compressor for one year, plus the added protection of extended warranty coverage. Kits include:

- All-Season Select® lubricant — a synthetic, all-temperature blend designed to increase efficiency, reduce wear, and prevent carbon build-up
- Replacement filter elements
- Engine oil and filters are also included in kits for gas-driven compressors
- 2-year extended warranty (pump only) based on use of All-Season Select lubricant included in kit



Model	Part Number
ELECTRIC START-UP KITS	
SS3	97338099
SS5	20100251
2000	20102877
2340, 2475	32305880
2545, 7100, 2545N7.5-PS, 7100E10-PS	32305898

Model	Make	Part Number
GAS START-UP KITS		
SS3J5.5GB-WB	Briggs & Stratton	97338610
SS3J5.5GH-WB	Honda	97339501
SS3J5.5GH-AS	Honda	97339501
2475F11GH	Honda	32312936
2475F11.5GKA	Kawasaki	32498511
2475F12.5G	Kohler	32305872
2475F13GH	Honda	32312936
2475F14G	Kohler	46821567



Start-up Kit for Gas-driven Air Compressors

Lubricants

All-Season Select Lubricant

All-Season Select lubricant is a synthetic, all-temperature blend designed to increase efficiency, reduce wear, and prevent carbon build-up. It performs four times longer than petroleum-based lubricants. Recommended 2,000 hours of service between lubricant change-out under normal operating conditions.



Coolant / Lubricant	Base Stock	Viscosity Index	Hours	ISO Viscosity Grade	SAE Grade
LUBRICANT					
All-Season Select	Diester	128	2,000	68 / 150	20W40

All-Season Select	Quantity	Part Number
LUBRICANT		
Box of quarts	(12) 1 qt	34836739
Box of 1/2 liters	(6) 1/2 liter	97338149

Rotary Start Up Kits and Accessories

Part Number	Description
ROTARY START-UP KITS	
38339297	UP6 5-15c
38028577	UP6 20-40
ACCESSORIES	
38342028	Panel Filter: UP6 5-15c (4-Pack)
38338463	Electrical Installation Kit: 1-phase UP6 5-15c
22469183	Maintenance Kit: UP6 5-15c
38335410	Installation Kit: UP6 5-15c

Maintenance Kits — TS and SS Series Compressors

Ingersoll Rand Type 30 maintenance kits offer all the parts necessary to perform annual factory-recommended maintenance on your Type 30 compressor. Conveniently packaged, the kits can save you 20 to 30 percent more than purchasing parts individually.

Features

- One fill of All-Season Select lubricant
- One replacement air filter element
- All replacement gaskets and O-rings required to clean and inspect valves
- Easy-off maintenance reminder sticker to track when next maintenance is due



Single-Stage Maintenance Kits

Model	Valve / Gasket Kit	Ring / Gasket Kit	Bearing Kit	Air Filter	Overhaul Kit	Gasket Kit
MAINTENANCE KITS						
SS3 electric units	97338107	97338115	N/A	70243712	N/A	N/A
SS5 electric units	20100277	20100285	N/A	32170979	N/A	N/A
2000 electric units	20103081	20103099	20103107	32170979	22222053	N/A

Two-Stage Maintenance Kits

Model	Maintenance Kit
COMPRESSOR MAINTENANCE KITS	
2340	38485314
2475	38485330
2545	38485298
7100	38485322



38335410

Installation Kits

Kit Number	Description	Part Number	Quantity
1/2″ STANDARD INSTALLATION KITS			
38335402*	Vibration pads	32321002	4
	1/2″ x 3′ braided hose	38335295	1
	1/2″ JIC to NPT male adaptor	38335337	2
	1/2″ x 4″ foundation bolts	38335329	4
	Instruction sheet	22256549	1
3/4″ STANDARD INSTALLATION KITS			
38335410**	Vibration pads	32321002	4
	3/4″ x 3′ braided hose	38335303	1
	3/4″ JIC to NPT male adaptor	38335345	2
	1/2″ x 4″ foundation bolts	38335329	4
	Instruction sheet	22256549	1
1″ STANDARD INSTALLATION KITS			
38335394	1″ x 3′ braided hose	38335311	1
	1″ JIC to NPT male adaptor	38335352	2
	1/2″ x 4″ foundation bolts	38335329	4
	Instruction sheet	22256549	1

**For compressor models SS3, SS5, 2340, and 2475 electric units.*
***For compressor models 2475, 2545, and 7100 electric units.*

Lubrication Equipment



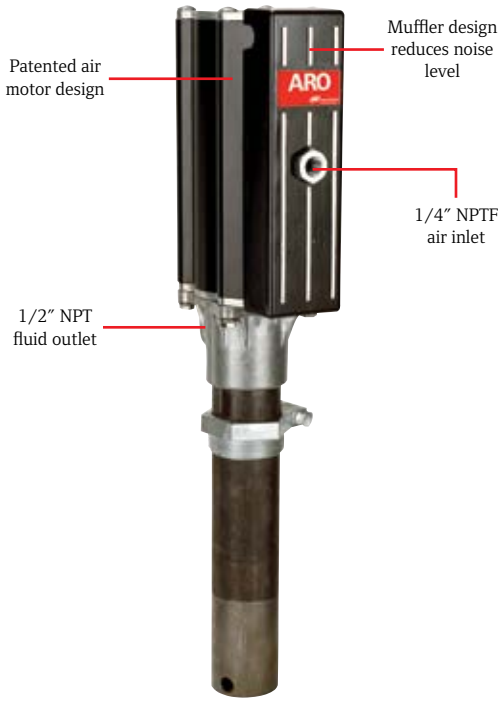
Ingersoll Rand lubrication equipment reflects the same high standards of performance as Ingersoll Rand tools and air compressors, with a full range of products that will keep all types of fluids moving efficiently. They are backed by more than 70 years of experience in pump and air system technology, and include models specifically designed for popular applications.



ARO LM and LP Series Piston Pumps

Built Tough to Fit the Way You Work

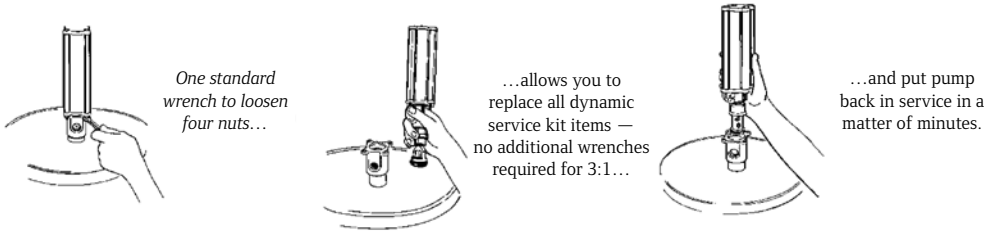
Ingersoll Rand LM Series piston pumps deliver unmatched industrial-strength performance for pumping fluids with sizes to fit small (16 gal / 35 lb) or large (275 gal / 400 lb) containers. Working flow rates range from 2 to 6 gallons per minute. Pumps are offered from 3:1 to 50:1 ratios, in order to meet the requirements of any application. Our LM Series is ideal for pumping grease, motor oil, gear oil, or transmission fluid. The simple, durable design allows for piston pump service by any owner or qualified technician. Also look for our convenient grease and oil pump packages.



Features and Benefits

- Pump's patented design improves flow, reduces pulsation, and extends service life
- Offers simple self-service maintenance due to advanced design with 50% fewer parts
- Reduces service time, due to inline service design with no special tools required
- Features stall-free, ice-free air motor with tough, durable housing

Inline Service for 3:1 Piston Pumps



One standard wrench to loosen four nuts…

…allows you to replace all dynamic service kit items — no additional wrenches required for 3:1…

…and put pump back in service in a matter of minutes.

LM Series Piston Pumps

Model	Working Flow gpm (L/min)	Free Flow gpm (L/min)	Fluid Inlet / Oulet NPTF in (mm)	Container gal	Air Inlet in (mm)
3:1 PISTON PUMPS					
LM2203A-11-C	6 (23)	9 (34)	3/4″ / 1/2″ (19 / 13)	Stub	1/4″ (6)
LM2203A-31-C	6 (23)	9 (34)	3/4″ / 1/2″ (19 / 13)	16	1/4″ (6)
LM2203A-41-C	6 (23)	9 (34)	3/4″ / 1/2″ (19 / 13)	55	1/4″ (6)
LM2203A-51-C	6 (23)	9 (34)	3/4″ / 1/2″ (19 / 13)	275	1/4″ (6)
5:1 PISTON PUMPS					
LM2305A-11-B	6 (23)	9 (34)	1-1/2″ / 1/2″ (38 / 13)	Stub	1/4″ (6)
LM2305A-31-B	6 (23)	9 (34)	1-1/2″ / 1/2″ (38 / 13)	16	1/4″ (6)
LM2305A-41-B	6 (23)	9 (34)	1-1/2″ / 1/2″ (38 / 13)	55	1/4″ (6)
LM2305A-51-B	6 (23)	9 (34)	1-1/2″ / 1/2″ (38 / 13)	275	1/4″ (6)
50:1 PISTON PUMPS	**ppm (kg/min)**	**ppm (kg/min)**	**Outlet NPTF in**	**Weight lb**	
LM2250E-21-B	2 (1)	9 (4)	3/8″	35	1/4″ (6)
LM2250E-31-B	2 (1)	9 (4)	3/8″	120	1/4″ (6)
LM2250E-41-B	2 (1)	9 (4)	3/8″	400	1/4″ (6)
LM2250E-61-B	2 (1)	9 (4)	3/8″	60	1/4″ (6)
LM2350E-21-B	4 (2)	7.5 (3)	3/8″	35	1/4″ (6)
LM2350E-31-B	4 (2)	7.5 (3)	3/8″	120	1/4″ (6)
LM2350E-21-B	4 (2)	7.5 (3)	3/8″	400	1/4″ (6)
LM2350E-21-B	4 (2)	7.5 (3)	3/8″	60	1/4″ (6)

LP Series Piston Pumps

Model	Description	Pump	Meter	Control Handle	Dolly	Drum Cover	Hose	Valve
PORTABLE OIL PUMP PACKAGES								
LP2100-1-B	3:1 ratio, 16 gal	LM2203A-31-C	635190-1	635190-1	640058-2	94421	623501-6	67085
LP3100-1-B	5:1 ratio, 16 gal	LM2305A-31-C	635190-1	635190-1	640058-2	94421	623501-6	N/A

Model	Description	Pump Meter	Handle	Control Dolly	Cover	Drum Hose	Plate	Follower Handle	Adaptor	Z-Swivel	
GREASE PUMP PACKAGES											
LP2001-1-B	2″ diameter air motor, 35 lb	LM2250E-21-B	N/A	N/A	N/A	94420	N/A	640095-2-B	94434	N/A	N/A
LP2002-1-B	2″ diameter air motor, 35 lb	LM2250E-21-B	N/A	636111	N/A	94420	624201-10	640095-2-B	94434	76493	636077
LP2003-1-B	2″ diameter air motor, 120 lb	LM2250E-31-B	N/A	N/A	N/A	94421	N/A	640165	N/A	N/A	N/A
LP2004-1-B	2″ diameter air motor, 120 lb	LM2250E-31-B	N/A	636111	N/A	94421	624201-10	640165	N/A	76493	636077
LP2006-1-B	2″ diameter air motor, 120 lb	LM2250E-31-B	N/A	636111	640058-2	94421	624201-10	640165	N/A	76493	636077
LP3001-1	3″ diameter air motor, 35 lb	LM2350E-21-B	N/A	636103	N/A	94420	624201-10	640095-2-B	94434	76493	636077
LP3002-1	3″ diameter air motor, 120 lb	LM2350E-31-B	622201-3	N/A	N/A	94421	624401-4	640165	N/A	N/A	N/A
LP3003-1	3″ diameter air motor, 120 lb	LM2350E-31-B	N/A	636103	N/A	94421	624401-4	640165	N/A	76493	636077
LP3004-1	3″ diameter air motor, 120 lb	LM2350E-31-B	N/A	636111	N/A	94421	624401-4	640165	N/A	76493	636077
LP3005-1	3″ diameter air motor, 400 lb	LM2350E-41-B	622201-3	N/A	N/A	94421	624401-4	640165	N/A	N/A	N/A
LP3007-1	3″ diameter air motor, 60 lb	LM2350E-61-B	N/A	636111	N/A	71740-1	624401-4	N/A	N/A	N/A	N/A



LP3001-1



LP3003-1



LP3100-1-B

Piston Pumps

Model	Working Flow gpm (L)	Free Flow gpm (L)	Air Inlet NPT (F) in	Fluid Outlet NPT (F) in	Container gal (L)	Accessories
SERIES 200 PISTON PUMPS — 1:1 RATIO 2″ DIAMETER AIR MOTOR						
612041-1	9 (34)	18 (68)	1/4″	3/4″	55 (208.2)	Bung adapter
612041-3*	9 (34)	18 (68)	1/4″	3/4″	55 (208.2)	Bung adapter
612042-1	9 (34)	18 (68)	1/4″	3/4″	275 (1041)	Bung adapter
SERIES 425 PISTON PUMPS — 9:1 RATIO 4.25″ DIAMETER AIR MOTOR						
662420-B*	3.9 (14.8)	21 (79.4)	1/4″	3/4″	Stub	N/A
662409*	3.9 (14.8)	21 (79.4)	1/4″	3/4″	16 (60.57)	N/A
662410-B	3.9 (14.8)	21 (79.4)	1/4″	3/4″	55 (208.2)	N/A

**Not pictured.*

PISTON PUMPS

Motor Oil, Gear Oil, and Transmission Fluid

612041-1

This 1:1 ratio pump is ideal for pumping motor oil, gear oil, and transmission fluid. This model fits a standard 55-gallon drum (including bung adapter).



612042-1

Our 1:1 ratio piston pumps are ideal for moving oils and fluids at high volumes. This model is designed for 275-gallon onboard tanks.



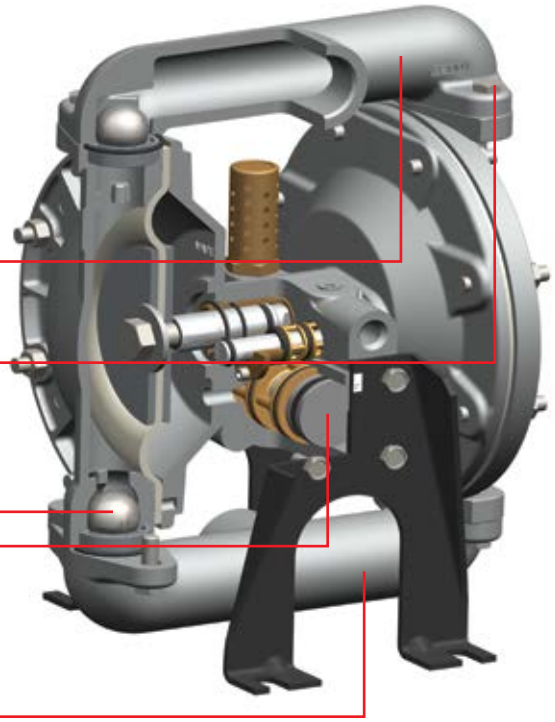
662410-B

425 Series pumps are designed with a 9:1 pump ratio, 1/4″ air motor, and are ideal for pumping heavy oils over long distances.



ARO Diaphragm Pumps

Our diaphragm pumps are ideal for pumping oil or other light fluids such as anti-freeze, water, windshield fluid, fuel, solvents, transmission fluid, and waste oil. ARO diaphragm pumps range in size from 3/8″ to 2″ to meet the requirements of any application.



Features and Benefits

- Ideal for abrasion and solids handling
- From top to bottom, ARO's flap valve pump is your best high solids-handling choice
- Bolted construction for reliability and ease of assembly
  - Bolted is safer
  - Bolted is reliable
  - Bolted is easier to assemble
  - Bolted is less expensive
- Positive priming provides instant start-ups
- ARO's patented "unbalanced" air valve
  - Eliminates shifting / freezing problems
  - Uses significantly less power than competition
  - Does not require lubrication
  - Forgiving in dirty air
- Unstallable air motor design: SimulShift™
- Broad material selection
- Commitment — Ingersoll Rand diaphragm pumps come with a 5-year warranty.

Diaphragm Pumps

Model	Body Materials (Wetted)	Diaphragm / Ball Material	Air Inlet NPT (F) in	Fluid Inlet / Outlet Material in	Max Flow gpm	Compatible Fluids	Replaces Model
3/8″ PORTS							
PD03P-ARS-PTT	Polypropylene	Teflon and anti-freeze	1/4″	3/8″	10.6	Windshield fluid, motor / gear oil, transmission fluid	New
PD03P-ARS-PCC	Polypropylene	Hytrel	1/4″	3/8″	10.6	windshield fluid, motor / gear oil, transmission fluid, anti-freeze	New
PD03P-AES-DTT	Acetal (groundable)	Teflon	1/4″	3/8″	10.6	Solvents	New
PD03P-AES-DCC	Acetal (groundable)	Hytrel	1/4″	3/8″	10.6	Windshield fluid, motor / gear oil, transmission fluid, anti-freeze	New
1/2″ PORTS							
PD05P-ARS-PTT-B	Polypropylene	Teflon	1/4″	1/2″	14.4	Windshield fluid, motor / gear oil, transmission fluid, anti-freeze	66605J-344
PD05P-ARS-PCC-B	Polypropylene	Hytrel	1/4″	1/2″	14.4	Windshield fluid, motor / gear oil, transmission fluid, anti-freeze	66605J-322
PD05P-ARS-PAA-B	Polypropylene	Santoprene	1/4″	1/2″	14.4	Windshield fluid / anti-freeze	66605J-388
PD05P-AES-DTT-B	Acetal	Teflon	1/4″	1/2″	14.4		666056-6A4
PD05P-AES-DCC-B	Acetal	Hytrel	1/4″	1/2″	14.4	Windshield fluid, motor / gear oil, transmission fluid, anti-freeze	66605H-622
66605J-344*	Polypropylene	Teflon	1/4″	1/2″	13	Windshield fluid, motor / gear oil, transmission fluid, anti-freeze	

**These pumps have been superseded and will be discontinued in the near future. See recommended replacements above.*

Diaphragm Pumps

Model	Body Materials (Wetted)	Diaphragm / Ball Material	Air Inlet NPT (F) in	Fluid Inlet / Outlet Material in	Max Flow gpm	Compatible Fluids
1/2″ PORTS						
66605J-322	Polypropylene	Nitrile	1/4″	1/2″	13	Windshield fluid, motor / gear oil, transmission fluid, anti-freeze
66605J-388	Polypropylene	Polyurethane	1/4″	1/2″	13	Windshield fluid, motor / gear oil, transmission fluid, anti-freeze
1″ PORTS						
666100-344-C	Aluminum	Teflon	1/4″	1″	35	Windshield fluid, motor / gear oil, transmission fluid, anti-freeze, solvents
666100-362-C	Aluminum	Nitrile / acetal	1/4″	1″	35	Windshield fluid, motor / gear oil, transmission fluid, anti-freeze
666100-3C9-C	Aluminum	Hytrel	1/4″	1″	35	Windshield fluid, motor / gear oil, transmission fluid, anti-freeze
666100-322-C	Aluminum	Buna	1/4″	1″	35	Windshield fluid, motor / gear oil, transmission fluid, anti-freeze
650717-C	Aluminum	Viton / acetal	1/4″	1″	29	Fuel (UL 79 approved)
1-1/2″ PORTS						
666150-362-C	Aluminum	Nitrile / acetal	1/2″	1-1/2″	90	Windshield fluid, motor / gear oil, transmission fluid, anti-freeze
650718-C	Aluminum	Viton / acetal	1/2″	1-1/2″	75	Fuel (UL 79 approved)
2″ PORTS						
666250-9C9-C	Aluminum	Hytrel	3/4″	2″	172	Windshield fluid, motor / gear oil, transmission fluid, anti-freeze
650719-C	Aluminum	Viton / acetal	3/4″	2″	105	Fuel (UL 79 approved)

650715-C

This 1:1 ratio pump has dual inlets to allow simultaneous pumping and blending of anti-freeze and water.



Specialty Application Pumps Specifications

Model	Application	Manifold Material	Diaphragm and O-Ring Material	Air Inlet NPT (F) in (mm)	Fluid Outlet NPT / F in (mm)	Max gpm (L/min)	Package Includes
1/2″ PORTS							
612999-5	Waste oil evacuation	Polypropylene	Nitrile	1/4“ (6)	1/2“ (13)	11 (42)	Wall mount, inlet and outlet fluid hoses
612999-6	Waste oil evacuation	Polypropylene	Nitrile	1/4“ (6)	1/2“ (13)	11 (42)	Hanging bracket and outlet hose
1″ PORTS							
650715-C	50/50 mix of anti-freeze and water	Aluminum	Nitrile	1/4“ (6)	1“ (25)	35 (133)	Pump only
612999-3	50/50 mix of anti-freeze and water	Aluminum	Nitrile	1/4“ (6)	1“ (25)	35 (133)	Wall mount, siphon tubes, material hoses
612999-4	Waste oil evacuation	Aluminum	Nitrile	1/4“ (6)	1“ (25)	35 (133)	Wall mount, inlet and outlet fluid hoses
613201-2-C	Calcium chloride tire filling	Aluminum	Neoprene	1/4“ (6)	1“ (25)	35 (133)	Inlet and outlet hoses, strainer, 8′ suction hose, control handle, check valve

Ingersoll Rand Heavy-duty Hose Reels

Model	Performance Rating	Max Pressure	Hose Length ft	Hose ID in	Inlet / Outlet NPT	Dimensions (in) Length in	Width in	Height in	Spool Material	Use
LOW-PRESSURE HOSE REELS										
6332	Heavy-duty	300	35′	1/2″	3/8″ / 1/2″	17.75″	7″	20.37″	Composite	Air, water, compatible solvents
6358	Heavy-duty	300	50′	3/8″	3/8″ / 3/8″	17.75″	7″	20.37″	Composite	Air, water, compatible solvents

6358

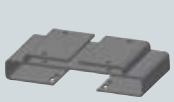
Hose Reel

Low-pressure

This composite hose reel provides excellent durability at a great value. All composite reels are made of a tough glass-filled material combined with a strong steel base.



Hose Reel Accessories



7001



7002



7003



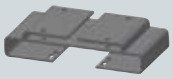
7004



7005



7006



7009

Accessory	Model	Compatible With	Features
OH mounting bracket	7001	Ultra-duty	Overhead mounting bracket for I or H beam, 5″ x 6″ flange
OH mounting bracket	7009	Supreme-duty	Overhead mounting bracket for I or H beam, 8″ x 9″ flange
Wall-mount swing bracket	7002	Ultra-duty	Swing bracket (180°) for vertical mounting
Floor-mount swivel bracket	7003	Ultra-duty and supreme-duty	Swivel bracket (345°) for horizontal mounting
Ceiling-mount bracket, required with 7005	7004	Ultra-duty	Easy installation bracket; reel slides in and out for easy overhead mounting; must be ordered with 7005 for I or H beam installation
I or H beam adapter, requires 7004	7005	Ultra-duty	Easy installation bracket; I or H beam adapter; must be ordered with 7004.
Wall-mount swing bracket	7006	Supreme-duty	Vertical mounting bracket (180°); powdercoated crinkle black
Reelcraft adapter plate	7007		Custom adapter bracket for Reelcraft 4000, 5000, 5806, and 7000 Series 3″ x 5″ and 4″ x 5″ base patterns
Graco adapter plate	7008		Custom adapter bracket for Graco 500 Series 3″ x 5″ and 4″ x 5″ base patterns

Control Handles

Non-metered Fluid Control Handles

Model	Description	Max Working Pressure psi (bar)	Fluid Inlet NPT (F) in	Fluid Outlet
MOTOR OIL, GEAR OIL, TRANSMISSION FLUID				
HIGH-VOLUME				
635193	Has flexible rubber hose with a non-drip nozzle; use with 1:1 and 3:1 pumps; non-drip tip	600 (41)	3/4″	71893
635395-2	Has flexible rubber hose with non-drip nozzle; use with 5:1 and 9:1 pumps; non-drip tip	900 (63)	3/4″	71893
STANDARD-VOLUME				
635392	Has flexible rubber hose, built-in swivel and filter, and non-drip nozzle; non-drip tip	1,000 (69)	1/2″	60164
635399	Has flexible rubber hose, built-in swivel, and right-angle non-drip nozzle; non-drip tip	1,000 (69)	1/2″	70790
WATER, ANTI-FREEZE				
635129	Radiator bib	300 (21)	1/4″	Non-drip tip



635193



635399



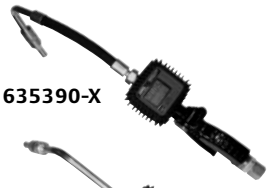
635392

Digital, Metered Fluid Control Handles

Our new metered control handle features a patented oval gear wheel design for precise reliable measurement. Its digital LCD readout operates on two standard alkaline batteries.

- Lightweight
- Precise
- Fast reset
- Totalizes

Model	Max Flow Rate gpm (L)	Meter / Totalizing Increments	Max.Working Pressure psi (bar)	Fluid Inlet NPT (F) in	Fluid Outlet
METERED, RIGID NOZZLE MODELS					
635390-11	4 (15)	pt / gal	1,000 (69)	1/2″	Non-drip tip
635390-22	4 (15)	qt / gal	1,000 (69)	1/2″	Non-drip tip
635390-33	4 (15)	L / L	1,000 (69)	1/2″	Non-drip tip
NON-METERED, RIGID NOZZLE MODELS (HANDLE AND NOZZLE ONLY)					
635391-11	4 (15)	N/A	1,000 (69)	1/2″	Non-drip tip
METERED, FLEXIBLE NOZZLE MODELS					
635390-1	4 (15)	pt / gal	1,000 (69)	1/2″	Non-drip tip
635390-2	4 (15)	qt / gal	1,000 (69)	1/2″	Non-drip tip
635390-3	4 (15)	L / L	1,000 (69)	1/2″	Non-drip tip
NON-METERED, FLEXIBLE NOZZLE MODELS (HANDLE AND NOZZLE ONLY)					
635391-1	4 (15)	N/A	1,000 (69)	1/2″	Non-drip tip
METER ONLY					
635190-1	4 (15)	pt / gal	1,000 (69)	1/2″	
635190-2	4 (15)	qt / gal	1,000 (69)	1/2″	
635190-3	4 (15)	L / L	1,000 (69)	1/2″	
METER, CONTROL HANDLES (W/OUT NOZZLES)					
635390-10	4 (15)	pt / gal	1,000 (69)	1/2″	
635390-20	4 (15)	qt / gal	1,000 (69)	1/2″	
635390-30	4 (15)	L / L	1,000 (69)	1/2″	



635390-X



635390-XX



635391-11



635391-1



635190-X

Order protective boot 74066 separately.

Metered Fluid Control Handles

Model	Units of Measure	Totalizing Increments	Working Pressure psi	Inlet Size in	Fluid Outlet
PRESET, DIGITAL METERED FLOW CONTROL					
Preset unit automatically shuts off when set quantity of fluid is delivered and meter indicator returns to zero. Totalizer registers up to 9,999 units.					
635360-2	Quarts	Gallons	1,000 (69)	1/2″	Non-drip flex extension
635360-22	Quarts	Gallons	1,000 (69)	1/2″	Non-drip rigid extension
635360-3	Liters	Liters	1,000 (69)	1/2″	Non-drip flex extension
635360-33	Liters	Liters	1,000 (69)	1/2″	Non-drip rigid extension
PRESET, METERED FLOW CONTROL					
Preset unit automatically shuts off when set quantity of fluid is delivered and meter indicator returns to zero. Totalizer registers up to 9,999 units.					
635364	Quarts, from 1 to 60	Gallons	1,000 (69)	1/2″	Non-drip tip, 9/16″ diameter
635365	Gallons, from 1 to 60	Gallons	1,000 (69)	1/2″	Non-drip tip, 9/16″ diameter
635367	Liters, from 1 to 60; auto shut off	Liters	1,000 (69)	1/2″	Non-drip tip, 9/16″ diameter



635360-2



635365

Non-drip Nozzle / Hose

Model	Description	Fluid Inlet NPT (M) in	Length in (mm)	Max Working Pressure psi (bar)
MOTOR OIL, GEAR OIL, TRANSMISSION FLUID				
629212	Non-drip nozzle / hose	3/4″	12″ (305)	900 (62)
629226	Non-drip nozzle / hose	1/2″	11″ (279)	900 (62)
629516	Non-drip nozzle / hose	1/2″	13″ (330)	1,000 (69)
629521	Right-angle nozzle / hose	1/2″	15″ (381)	1,000 (69)
6786	Right-angle, rigid, non-drip nozzle	1/4″	6-1/2″ (165)	1,000 (69)
60798	Rigid, non-drip nozzle	1/2″	5-1/2″ (133)	1,000 (69)
NOZZLE, FLEXIBLE HOSE, WITH NON-DRIP TIP				
629245-1	Flexhose, non-drip tip	1/2″	15″ (381)	1,000 (69)
NOZZLE, RIGID TUBE, WITH NON-DRIP TIP				
629245-2	Rigid tube, non-drip tip	1/2″	13″ (330)	1,000 (69)



629226



629516



629521



6786

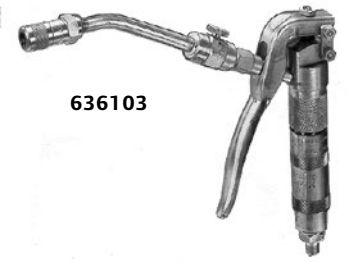
High-pressure Grease Control Handles

Model	Description	Max Working Pressure psi (bar)	Fluid Inlet NPT (F) in	Fluid Outlet in
GREASE CONTROL HANDLES				
636101	Dispenses lubrication at line pressure for lubricating grease fittings. Does not include nozzle or hydraulic coupler. For applications requiring high-flow capacity. Remove the 1/8″ (M) x 3/8″ (M) adapter for 3/8″ (F) porting.	7,500 (517)	3/8″ (F)	11/16 – 16″ (M) or 1/8″ NPT (F)
636111	Dispenses lubricant at line pressure for lubricating grease fittings. Includes inlet material filter and curved nozzle with hydraulic coupler. Remove the 1/8″ (M) x 3/8″ (M) adaptor for 3/8″ (F) porting.	7,500 (517)	1/8″ (M) or 3/8″ (F)	Hydraulic coupler
636103	High-pressure booster handle delivers line pressure for normal lubrication. Trigger booster feature delivers 10,000 psi (689 bar) to break loose tougher fittings. Includes curved nozzle with hydraulic coupler, inlet material filter and manual pressure vent for easy disconnection. WARNING: Do not use with whip hose.	7,500 (517)	1/8″ (M) or 3/8″ (F)	Hydraulic coupler
WHIP HOSES FOR GREASE CONTROL HANDLES*				
629742	Extra-long, wire braid (624201-02) whip hose with hydraulic coupler and swivel. Overall length 29-1/2″ (749 mm). For use with coupler 636111 high-pressure control handle. Allows operator to access hard-to-reach fittings.	5,000 (345)	1/8″ (F)	hydraulic

**WARNING: Not for use with 636103 high-pressure booster handle.*



636101 636111



636103



629742

Water, Anti-freeze, Windshield Fluid Control Handle

Model	Description
WATER, ANTI-FREEZE, WINDSHIELD FLUID	
635129	Fluid dispensing nozzle — 635129 bib with trigger 1/4″ NPTF inlet, zinc die casting with brass and nitrile seals for water or oil service; radiator type bib has 1/4″ fluid inlet and non-drip tip



635129

Hand-operated Pumps

Grease NLGI #0 thru #3

Model	Description
LUBRICATION PUMPS, 35-LB, DRUM COVER TYPE	
611016	Ball joint lubricator — Can deliver up to 1/4-oz of lubricant per stroke. Includes 72006 drum cover, 622511-10 hose assembly, 640095-3-B follower plate and 72806 booster control handle. Control handle capable of generating up to 7,500 psi.



611016

Motor Oil, Gear Oil, Transmission Fluid

Model	Ratio	Description
MOTOR OIL, GEAR OIL, TRANSMISSION FLUID		
5-GAL		
611170	Adjustable	Capable of high-volume delivery. Includes 621597-5 hose / dispensing, 2:1, 4:1, 7:1 nozzle assembly (5′ (1.5 m), 1/2″ ID hose) and 72006 drum cover.



611170

Container not included.

Accessories



Ingersoll Rand offers an extensive line of accessories to match your tools with the requirements of every job. These accessories put the reliability and quality of Ingersoll Rand behind every job you do. For a comprehensive listing of all Ingersoll Rand accessories, please go to ingersollproducts.com/accessories



ARO Flo Series

For more than 100 years, Ingersoll Rand ARO has been an industry leader in the design and manufacture of compressors, pneumatic tools, and air preparation equipment. Clean air is a key ingredient that enables effective and efficient operation of tools, equipment, and machinery in almost every industry. As such, the use of air preparation devices, such as filters, regulators, and lubricators (FRLs) is an excellent means of keeping your air supply in top condition, as well as enabling your tools and equipment to operate at their peak performance. The new ARO-Flo Series FRLs continue the tradition of offering premium products for your operation, and also raises the bar in the industry for safety, flow performance, and modularity

Filters

Part Number	NPT in	Flow Rate scfm	Bowl Capacity oz	Bowl Type	Weight lb
FILTERS					
F35111-420	1/8″	38	0.4	Composite Nylon	0.36
F35121-420	1/4″	49	0.4	Composite Nylon	0.36
F35221-410	1/4″	73	1.3	Metal	0.75
F35331-410	3/8″	107	1.3	Metal	1.44
F35341-410	1/2″	197	2.4	Metal	1.42
F35451-410	3/4″	288	5.3	Poly	2.77

Features

- Pipe sizes from 1/8″ to 1″ NPT
- Flows to 325 cfm
- Maximum inlet pressures to 250 psig



F35341-410

Lubricators

Part Number	NPT in	Flow Rate scfm	Bowl Capacity oz	Bowl Type	Weight lb
LUBRICATORS					
L36111-120	1/8″	32	0.7	Composite Nylon	0.38
L36121-120	1/4″	51	0.7	Composite Nylon	0.38
L36221-110	1/4″	51	1.5	Metal	0.74
L36331-110	3/8″	105	1.5	Metal	1.48
L36341-110	1/2″	156	3.7	Metal	1.46

Features

- Pipe sizes from 1/8″ to 1″ NPT
- Flows to 440 cfm
- Maximum inlet pressures to 250 psig



L36341-110

Regulators

Part Number	NPT in	Flow Rate cfm	Adjusted Pressure Range psi	Weight lb
REGULATORS				
R37111-600	1/8″	45	0-140	0.43
R37121-600	1/4″	59	0-140	0.42
R37221-600	1/4″	86	0-140	0.87
R37331-600	3/8″	113	0-140	1.15
R37341-600	1/2″	210	0-140	1.19
R37451-600	3/4″	290	0-140	3.34

Features

- Pipe sizes from 1/8″ to 1″ NPT
- Flows to 491 cfm
- Maximum inlet pressures to 300 psig



R37-221-600

Accessories

Part Number	Port Size (F) NPT in	Flow Rate cfm	Bowl Size oz	Weight lb
IN-LINE LUBRICATOR				
L01-02-000	1/4″	36	0.25	0.2
L01-03-000	3/8″	38.1	0.25	0.2



Features

- Assure proper lubrication for small pneumatic hand tools
- Oil capacity is 0.25 oz
- Requires cyclical or intermittent airflow for proper operation
- Cannot be filled under pressure

Piggyback Combination Over / Under Filters

Part Number	NPT in	Flow Rate cfm	Bowl Size oz	Filter Element micron	Bowl Type	Adjusted Pressure Range psig	Weight lb
PIGGYBACK COMBINATION FILTERS							
P39114-620	1/8″ mini	13	1.1	20	Composite nylon	5 – 125	2.05
P39124-620	1/4″ mini	13	1.1	40	Composite nylon	5 – 125	2.03
P39224-610	1/4″	93	6	40	Metal	5 – 125	2.05
P39334-610	3/8″	135	6	40	Metal	5 – 125	2.03
P39344-610	1/2″	140	6	40	Metal	5 – 125	2



Combination Filters

Part Number	NPT in	Flow Rate cfm	Bowl Size oz	Filter Element micron	Bowl Type	Adjusted Pressure Range psig	Weight lb
COMBINATION FILTERS							
C38121-820	1/4″ mini	13	1.1	20	Composite nylon	5 – 125	1.2
C38121-620	1/4″ mini	13	1.1	20	Composite nylon	5 – 125	1
C38221-610	1/4″	75	6	40	Metal with sight glass	5 – 125	5.48
C38221-810	1/4″	54	6	40	Metal with sight glass	5 – 125	6.98
C38331-610	3/8″	100	6	40	Metal with sight glass	5 – 125	5.43
C38331-810	3/8″	100	6	40	Metal with sight glass	5 – 125	6.35
C38341-610	1/2″	110	6	40	Metal with sight glass	5 – 125	6.38
C38341-810	1/2″	110	6	40	Metal with sight glass	5 – 125	6.69

Regulators / lubricators with gauge.



Liquidator™ Filters / Dryers

Part Number	NPT in	Description	Flow Rate cfm
FILTERS			
TS-4000	1/2″	Liquidator tool saver	60
EAD-6000	1/2″	Liquidator prep station air dryer	60
PDS-2000	1/2″	Liquidator paint booth dessicant dryer	25

Part Number	Stage	Used In	Quantity
REPLACEMENT ELEMENTS			
8844-060	One	EAD-6000	1
8844-060C	Two	EAD-6000	1
8844-460	One	PDS-2000	1
8844-DES	Two	PDS-2000	1
8844-DES-6	Two	PDS-2000	6
8844-060	One and two	TS-4000	1

Features

- Centrifugal spinning
- Stainless steel media
- Friction drying and filtered air to one micron
- Inverse flow
- Automatic drain



Ingersoll Rand Lubricants

It goes without saying that proper lubrication of any tool is essential if you want the tool to last. By lubricating your air tools, you'll prolong the life of tool motors, governors, clutches, and other important impact mechanisms. Ingersoll Rand offers a complete line of specialized oils and greases to complement our full line of air tools.

Air Care Kits

Part Number	Description
AIR CARE KITS	
67-LBK1	Angle grinder care kit includes 10Z4 oil, 4 oz 67 grease, grease gun
105-LBK1	Metallic housings Impactool care kit includes 10Z4 oil, 4 oz 105 grease, grease gun
115-LBK1	Composite housings Impactool care kit includes 10Z4 oil, 4 oz 115 grease, grease gun



105-LBK1

Air Tool Oils

Part Number	Description	Size
AIR TOOL OILS		
63Z4	#63 oil for Cyclone wick lubrication	4 oz
10Z4	Class 1 #10 oils for use with percussive, assembly, Impactool	4 oz
10G	Class 1 #10 oils for use with percussive, assembly, Impactool	1 gal
10P	Class 1 #10 oils for use with percussive, assembly, Impactool	1 pt
10G55	Class 1 #10 oils for use with percussive, assembly, Impactool	55 gal
50P	Class II lubricant, #50 oil for use with grinders, Impactool, hoists, winches	1 pt
50G	Class II lubricant, #50 oil for use with grinders, Impactool, hoists, winches	1 gal
62 1 Gal	Class II #62 oil for hoist and winch gear boxes	1 gal



10Z4



10G



10P





LUB-POP

Greases

Part Number	Description	Grease #	Size
GREASES			
23-1 LB	For the gearing of drills	23	1 lb
28 1 LB	For screwdriver gearing and clutches; drills, grinders, saws; tie tampers grease	28	1 lb
66 1 LB	For slow-speed, high-torque angle heads	66	1 lb
66 8 LB	For slow-speed, high-torque angle heads	66	8 lb
67-4T	For high-speed, high-temp angle heads (green)	67	4 oz
67-1 LB	For high-speed, high-temp angle heads (green)	67	1 lb
67 8 LB	For high-speed, high-temp angle heads (green)	67	8 lb
70 1 LB	For large piston motors and gear cases	70	1 lb
70 8 LB	For large piston motors and gear cases	70	8 lb
77-1 LB	For grinder angle heads	77	1 lb
80 1 LB	For bearings on sump pumps	80	1 lb
80 8 LB	For bearings on sump pumps	80	8 lb
90-14 oz	For gear heads and tube nut wrenches	90	14 oz
100 1 LB	Standard-duty Impactool grease	100	1 lb
100 8 LB	Standard-duty Impactool grease	100	8 lb
105-4T-6	Metallic housing Impactool grease	105	4 oz
105-1 LB	Metallic housing Impactool grease	105	1 lb
105-8 LB	Metallic housing Impactool grease	105	8 lb
115-4T-6	Composite housing Impactool grease	115	4 oz
115-1 LB	Composite housing Impactool grease	115	1 lb
150-1 LB	For impact mechanisms with swinging weight	150	1 lb
150-8 LB	For impact mechanisms with swinging weight	150	8 lb
170-1 LB	Premium impact grease for high temps, used with impact mechanisms	170	1 lb



100 1 LB



105-4T-6

Lubrication Kits

Part Number	Description	Quantity
LUBRICATION KITS		
LUB-POP	Point-of-purchase display includes (3) 10G, (5) 10P, (24) 10Z4, (6) 100-1LB, (8) 105-LBK1, (8) 115-LBK1, (1) case 10Z4, (1) case hang tags	1
10Z4-MB24	Case of 10Z4; countertop display	24
10P-MB5	Case of 10P; countertop display	5
10G-MB3	Case of 10G; countertop display	3
100-MB6	Case of #100 grease; countertop display	6
105LBK1-MB8	Case of 105-LBK1; countertop display	8
115LBK1-MB8	Case of 115-LBK1; countertop display	8

Grease Guns and Accessories

Part Number	Description
GREASE GUNS	
P25-228	Push-type hand grease gun for hydraulic-type fittings, holds up to 3 oz of grease
R000A2-228	Push-type hand grease gun for flush-type fittings, holds up to 3 oz of grease
GREASE TUBE HEAD	
GTH-1	Grease gun used with Ingersoll Rand 4 oz tube of grease
GREASE GUN COUPLERS	
636020	Grease gun coupler
636024	Grease gun adaptor



P25-228



GTH-1



636020

MS Series Plugs and Couplers

INDUSTRIAL INTERCHANGE

- Economical automatic-type, one-way shutoff coupler
- Easy, push-to-connect use

Body Size in	NPT or Hose Stem ID in	Average Flow cfm*	NPT Part Number	Hose Stem ID Part Number
FEMALE PLUGS				
1/4″	1/8″	36	MSPF21	N/A
1/4″	1/4″	36	MSPF22	MSPH22
1/4″	3/8″	36	MSPF23	MSPH23
3/8″	1/4″	67	MSPF32	N/A
3/8″	3/8″	67	MSPF33	MSPH33
3/8″	1/2″	67	45ATH	MSPH34
1/2″	3/8″	126	MSPF43	N/A
1/2″	1/2″	126	MSPF44	MSPH44
1/2″	3/4″	126	MSPF46	N/A
MALE PLUGS				
1/4″	1/8″	36	MSPM21	N/A
1/4″	1/4″	36	MSPF22	MSPH22
1/4″	3/8″	36	MSPM23	MSPH23
3/8″	1/4″	67	MSPM32	N/A
3/8″	3/8″	67	PRPM33	MSPH33
3/8″	1/2″	67	MSPM34	MSPH34
1/2″	3/8″	126	MSPM43	N/A
1/2″	1/2″	126	MSPM44	MSPH44

**At 90 psig inlet and 10 psig pressure drop.*

Female Plugs



Female NPT



Hose Stem ID



45ATH

Male Plugs



Male NPT



Hose Stem ID

Body Size in	NPT or Hose Stem ID in	Average Flow cfm*	Manual NPT Part Number	Automatic NPT Part Number	Hose Stem ID Part Number
FEMALE COUPLERS					
1/4″	1/4″	36	N/A	MSCF22	MSCH22
1/4″	3/8″	36	N/A	MSCF23	MSCH23
3/8″	3/8″	67	420ATH	MSCF33	MSCH33
3/8″	1/2″	67	440ATH	N/A	N/A
1/2″	1/2″	126	N/A	MSCF44	MSCH44
MALE COUPLERS					
1/4″	1/4″	36	N/A	MSCM22	MSCH22
1/4″	3/8″	36	N/A	MSCM23	MSCH23
3/8″	1/4″	67	N/A	4100ATH	N/A
3/8″	3/8″	67	430ATH	MSCM33	MSCH33
1/2″	1/2″	126	N/A	MSCM44	MSCH44

Female Couplers



Automatic NPT



Hose Stem ID



Manual NPT

Male Couplers



Automatic NPT



Hose Stem ID



4100ATH



430ATH

PR Series Plugs and Couplers

Body Size in	NPT in	Average Flow cfm*	Part Number
FEMALE THREAD COUPLERS			
1/4″	1/4″	32	PRSGF22
1/4″	3/8″	32	PRSGF23
3/8″	3/8″	64	PRSGF33
3/8″	1/2″	64	PRSGF34
1/2″	3/8″	147	PRSGF43
1/2″	1/2″	147	PRSGF44
1/2″	3/4″	147	PRSGF46
MALE THREAD COUPLERS			
1/4″	1/4″	32	PRSGM22
1/4″	3/8″	32	PRSGM23
3/8″	3/8″	64	PRSGM33
3/8″	1/2″	64	PRSGM34
1/2″	3/8″	147	PRSGM43
1/2″	1/2″	147	PRSGM44
1/2″	3/4″	147	PRSGM46
HOSE BARB COUPLERS			
1/4″	1/4″	32	PRSGH22
3/8″	1/4″	32	PRSGH23
3/8″	3/8″	64	PRSGH33
1/2″	3/8″	64	PRSGH34
3/8″	1/2″	147	PRSGH43
1/2″	1/2″	147	PRSGH44
5/8″	1/2″	147	PRSGH45
3/4″	1/2″	147	PRSGH46

**At 90 psig inlet and 10 psig pressure drop.*

QUICK CONNECT DOUBLE-ACTION COMPOSITE SAFETY COUPLERS

Couplers

- Made of non-marring composite
- Safety coupler eliminates accidental disconnects
- Easy connect, disconnect
- Allows you to bleed hoses
- Shockproof and crush-resistant



Female Thread Couplers



Hose Barb Couplers



Male Thread Couplers

Body Size in	NPT in	Average Flow cfm*	Part Number
FEMALE THREAD CONNECTOR PLUGS			
1/4″	1/4″	N/A	PRPF22
1/4″	3/8″	N/A	PRPF23
3/8″	1/4″	N/A	PRPF32
3/8″	3/8″	N/A	PRPF33
1/2″	1/2″	N/A	PRPF44
MALE THREAD CONNECTOR PLUGS			
1/4″	1/4″	N/A	PRPM22
1/4″	3/8″	N/A	PRPM23
3/8″	1/4″	N/A	PRPM32
3/8″	3/8″	N/A	PRPM33
HOSE BARB CONNECTOR PLUGS			
1/4″	1/4″	32	PRPH22
3/8″	1/4″	32	PRPH23
3/8″	3/8″	64	PRPH33
1/2″	3/8″	64	PRPH34
1/2″	1/2″	147	PRPH44
5/8″	1/2″	147	PRPH45
3/4″	1/2″	147	PRPH46

**At 90 psig inlet and 10 psig pressure drop.*

Connector Plugs

- Carbonitride steel with anti-corrosion protection
- Teflon coating on all male threads



Female Thread Connector Plugs



Male Thread Connector Plugs



Hose Barb Connector Plugs

Air Hose Nipples

Part Number	Hose Size in (mm)	Pipe Thread in
MALE PIPE THREAD		
IR78217	1/4″ (6)	1/4″
IR30127	5/16″ (8)	1/4″
AL-387	5/16″ (8)	3/8″
R00-146	3/8″ (10)	1/8″
D01-14	3/8″ (10)	1/4″
IR6225	3/8″ (10)	3/8″
A01-46	1/2″ (13)	3/8″
D02-455	1/2″ (13)	1/2″
A03-46	3/4″ (19)	1/2″
J3-581	3/4″ (19)	3/4″
P35-46	1″ (25)	1″
CN-20-S	2″ (51)	2″
FEMALE PIPE THREAD		
R1-47	5/16″ (8)	3/8″
R00-147	3/8″ (10)	3/8″

Male Pipe Thread



AL-387



R00-146



D01-14



IR6225



A01-46



A03-46

Female Pipe Thread



R00-147

Swivels and Adapters

Part Number	Thread Size in	Airflow cfm*	Description
SWIVEL-IT SWIVELS			
ASA-1/4	1/4″	0 – 25	Adjustable Swivel-It
ASC-1/4	1/4″	0 – 33	Non-marring Swivel-It
AS-3/8	3/8″	0 – 45	Standard Swivel-It
AS-1/2	1/2″	0 – 65	Standard Swivel-It

Part Number	Size NPT in	Description
SWIVELS AND ADAPTERS		
636077	1/8″ (M) x 1/8″ (F)	Z swivel
636086-B	1/4″ (M) x 1/4″ (F)	Z swivel
636087-B	1/4″ (M) x 1/4″ (F) with filter element	Z swivel
635106	1/2″ (F) x 3/8″ (M)	Z swivel
636075	1/8″ (M) x 1/8″ (F)	Straight swivel
636085	3/8″ (M) x 3/8″ (F)	Straight swivel
635117	1/2″ (M) x 1/2″ (F)	Straight swivel
635108	3/4″ (M) x 3/4″ (F)	Straight swivel
635107	3/8″ (M) x 1/2″ (F)	Straight swivel
3249	1/8″ (F) x 1/8″ (F)	Female adapter
676	1/8″ (M) x 1/8″ (M)	Male adapter

Swivel-It Swivels



ASC-1/4

Swivels and Adapters



636077



636075



635108



676

Hose Whips

Part Number	Hose ID in	Hose Length ft	Male End in	Female End in
HOSE WHIPS*				
R00H-130	1/4″	8′	1/8″	1/4″
R0-130	5/16″	8′	1/4″	3/8″
R1A-130	3/8″	8′	1/4″	3/8″
510-130	3/8″	8′	3/8″	3/8″

**250 psig max working pressure.*

Consists of hose assembled with male hose nipple at one end and female hose nipple at the other end.



ROOH-130

Fitting Kits — Polyurethane Coil Hoses

Part Number	Description
FITTING KITS*	
P14-RMS	1/4″ NPT reusable male swivel fitting kit for 1/4″ ID polyurethane hose
P38-RMS	3/8″ NPT reusable male swivel fitting kit for 3/8″ ID polyurethane hose
P14-RMR	1/4″ NPT reusable male rigid fitting kit for 1/4″ ID polyurethane hose
P38-RMR	3/8″ NPT reusable male rigid fitting kit for 3/8″ ID polyurethane hose
P12-RFR	1/2″ NPT reusable female rigid fitting kit for 1/2″ ID polyurethane hose
P12-RMS	1/2″ NPT reusable male rigid fitting kit for 1/2″ ID polyurethane hose

**125 psig working pressure @ 75° F.*



P38-RMS



P12-RMS



P38-RMR

Premium Rubber Hose

Part Number	Size
PREMIUM RUBBER HOSE	
38016820	3/8″ x 50′

- Premium rubber air hose, specifically designed for heavy-duty applications, such as industrial, maintenance, automotive, and/or construction
- 3/8″ x 50′ red hose with black Ingersoll Rand logo
- Black hose restrictors on each end provide a 300 psi working pressure and a 4:1 safety burst ratio

Polyurethane Coil Hoses

Part Number	Description
POLYURETHANE COIL HOSES	
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

Features

- Superior elasticity and coil memory mean a cleaner work environment
- Outstanding flexibility increases operator comfort
- 25% lighter than rubber hose, reducing operator fatigue
- Abrasion and kink resistance increase lifetime
- Tight coil diameter allows easy entry into confined spaces
- Non-marring surface won't harm work pieces
- Broad chemical resistance makes hoses suitable for most environments
- Better than 80% working length extends your work space
- Straight tails on both ends eliminate workstation tangles
- Reusable MNPT fittings allow field retrofits
- Thread sealant on all fittings provides for leak-free joints



Features

- 6-year warranty
- Longer life than PVC
- Reinforced innermost tube, resistant to the materials it is intended to convey
- Extended life bend restrictors
- Increased flexibility in cold temperatures
- Designed to withstand the harshest jobsite conditions
- Extended service life due to number of threads, spirals, and thickness of rubber tube



Spring Balancers

- 19 models to choose from
- Three different series to meet all balancing requirements
- Lifts ranging from 4-1/4' to 8.2'
- Covers weight balancing needs from 1 to 30 lb
- Made of rugged die-cast aluminum
- Safety locking device in case of spring breakage on medium-duty models
- Easy-to-use controls allow for accurate spring adjustment

Hose Reel Balancers

Part Number	Hose Nipple Size in	Extended cfm	Capacity lb (kg)	Lift ft (mm)
HOSE REEL BALANCERS				
BHR-8	1/4″	18.4	0.875 – 1.75 (0.397 – 0.794)	4-1/4′ (1295)
BHR-15	1/4″	18.4	1.5 – 3.33 (0.68 – 1.51)	4-1/4′ (1295)
BHR-25	1/4″	18.4	2.625 – 5.5 (1.191 – 2.495)	4-1/4′ (1295)

Light-duty Balancers

Part Number	Capacity lb (kg)	Weight Of Balancer lb (net-kg)	Lift ft (mm)
LIGHT-DUTY BALANCERS — 0.9 – 6.6 LB CAPACITY			
BLD1	0.9 – 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)

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

Medium-duty Balancers

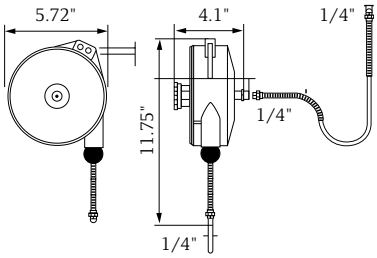
Part Number	Capacity lb (kg)	Weight of Balancer lb (net-kg)	Lift ft (mm)
MEDIUM-DUTY BALANCERS* SHORT CABLES			
BMDS-2	2.2 – 5.5 (1 – 2.5)	4.4 (2)	6.5′ (2000)
BMDS-4	4.4 – 8.8 (2 – 4)	4.4 (2)	6.5′ (2000)
BMDS-6	8.8 – 13.2 (4 – 6)	5.1 (2.3)	6.5′ (2000)
BMDS-8	13.2 – 17.6 (6 – 8)	5.5 (2.5)	6.5′ (2000)
LONG CABLES			
BMDLN-4	4.4 – 8.8 (2 – 4)	6.4 (2.9)	8.2′ (2500)
BMDLN-6	8.8 – 13.2 (4 – 6)	7.1 (3.2)	8.2′ (2500)
BMDLN-8	13.2 – 17.6 (6.8 – 8)	7.7 (3.5)	8.2′ (2500)
BMDLN-10	17.6 – 22 (8 – 10)	8.2 (3.7)	8.2′ (2500)
BMDLN-12	22 – 30 (10 – 14)	8.8 (4)	8.2′ (2500)
MEDIUM-DUTY LOCKING BALANCERS* LONG CABLES			
BMDLLN-4	4.4 – 8.8 (2 – 4)	6.6 (3)	8.2′ (2500)
BMDLLN-6	8.8 – 13.2 (4 – 6)	7.3 (3.3)	8.2′ (2500)
BMDLLN-8	13.2 – 17.6 (6 – 8)	7.9 (3.6)	8.2′ (2500)
BMDLLN-10	17.6 – 22 (8 – 10)	8.4 (3.8)	8.2′ (2500)

**Larger sizes available upon request.*

Hose Reel Balancers



BHR-15

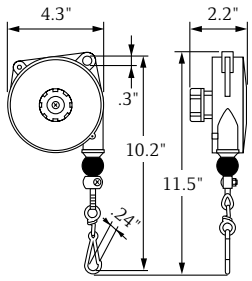


BHR Series

Light-duty Balancers



BLD1

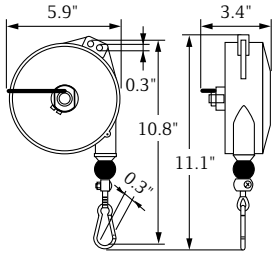


BLD Series

Medium-duty Balancers



BMDS-2

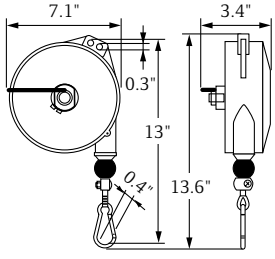


BMDS Series

Medium-duty Locking Balancers

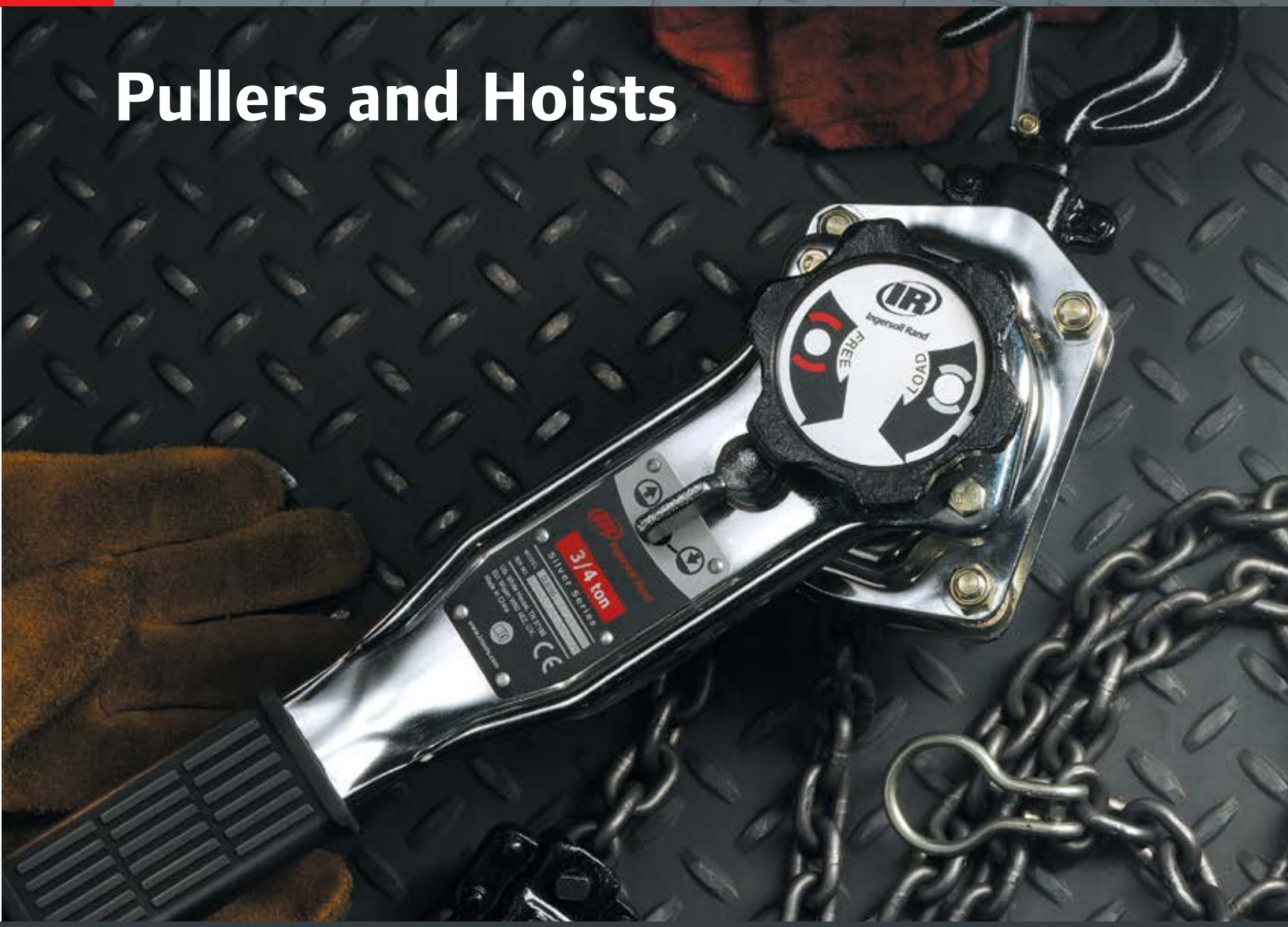


BMDLLN-10



BMDLN / BMDLLN Series

Pullers and Hoists



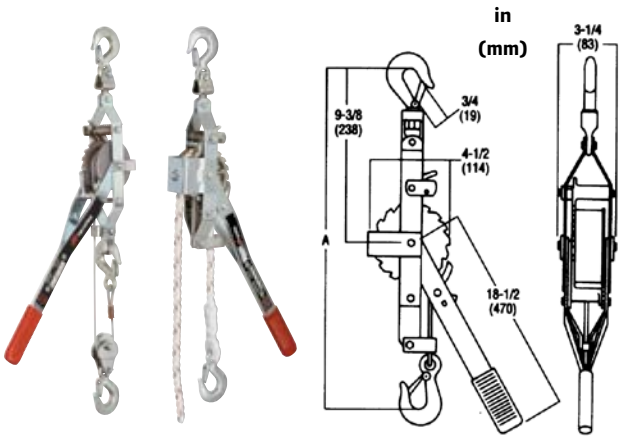
Ingersoll Rand pullers and hoists are designed to handle the tough pulling or lifting jobs, with minimal effort by the operator. Whether it's a low-, medium-, or heavy-duty job, you can trust our pullers and hoists to carry the load safely and easily.



P-Series Pullers

They'll pull up to 2,000 lb with no problem — and there's no hard work for you, either. Extremely strong and well-made, the Ingersoll Rand P-Series are high-quality, dependable wire rope pullers for low- and medium-duty pulling and lifting jobs.

- Made for superior strength with a steel frame and handle, alloy steel load hook, 1-piece cast aluminum drum, and solid steel drive and holding dog
- 4:1 design factor for lifting or pulling
- Long-lasting gears through the extra heavy Ingersoll Rand buttress tooth design



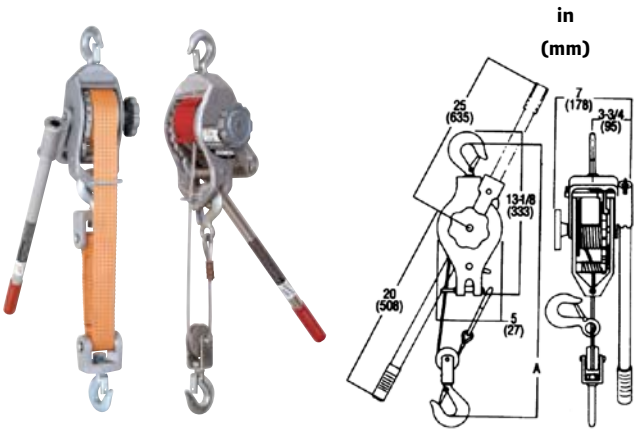
P-Series Pullers

C-Series Pullers

The C-Series includes rugged cast aluminum wire rope pullers designed to store more wire rope than all-steel ratchet pullers. With a rigged double line, they handle those long reach pulling or lifting jobs up to 3,400 lb with no problem.

- Extremely strong, with a solid cast steel drive and holding dog
- Heavy-duty cast aluminum drum and lightweight aluminum frame, alloy steel load hook with safety latches

Safe lowering is assured by the ratchet and pawl system. The gear teeth use the Ingersoll Rand buttress tooth design for additional strength and longer gear life.



C-Series Pullers

Model	Rated Number of Lines	Min Distance Capacity lb	Lifting Between Hooks in	Distance ft	Cable Diameter in	Net Number of Hooks	Weight lb
P-SERIES PULLERS							
P15HA	Single	1,000	19.5″	15′	3/16″	2	8.5
P15D3HA	Single	1,000	21″	15′	3/16″	3	10.5
	Double	2,000	27.5″	7-1/2′	3/16″	3	10.5
C400HA	Single	1,700	17″	20′	1/4″	3	16
	Double	3,400	22″	10′	1/4″	3	16
C400SA	Single	2,000	17″	12′	3/32″ x 1-7/8″	2	16
	Double	4,000	22″	6′	3/32″ x 1-7/8″	3	16

PT-8 Trolley Series

Plain 1/2 to 5 Metric Ton

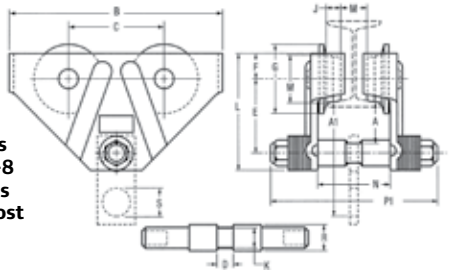
Our plain trolley is rated for both manual or powered hoists, and has the versatility to fit most types of beams.



Standard features

- The 5:1 design factor allows the PT-8 Series to be used with both manual or powered hoists; meets pertinent U.S. (ASME / ANSI and CMAA), Canadian, and European standards
- The side plates, including the rail sweeps / drop stops, are made of cold-formed steel for strength, durability, and even load distribution
- The wheel axles are rivet-locked in place so they won't come loose — they are not knurled, welded, or modified bolts
- The wheels are cast iron — the universal tread fits both flat and tapered beams

Suspension bail is supplied with PT-8 trollies only and is not required for most applications.



- Wheels run on sealed, "lubed-for-life" ball bearings; smoother rolling with less effort and less maintenance
- Wide hanger shaft assemblies allow PT-8 Series trollies to fit almost any I beam, H beam, or patented track beam up to 8.06 in (205 mm) wide
- PT-8 Series trolley hanger shafts are designed to accept all hoist brands and have a squared out recess to accept round or squared hook shapes; the trolleys are painted black for universal coordination

Model	Trolley Capacity lb (kg)	Fits Beam Flange Width in (mm)	Beam Height in (mm)	Curve Radius in (mm)	Net Weight lb (kg)
PT-8 TROLLEY CONTRACTOR SERIES — SINGLE 8″ (205 MM) HANGER SHAFT					
PT005-8A	1,100 (500)	2.66″ – 8.06″ (68 – 205)	4″ (102)	36″ (914)	20 (9)
PT010-8A	2,200 (1000)	3″ – 8.06″ (76 – 205)	5″ (127)	36″ (914)	31 (14)
PT020-8A	4,400 (2000)	3.33″ – 8.06″ (85 – 205)	6″ (152)	48″ (1219)	61 (28)
PT030-8A	6,600 (3000)	4″ – 8.06″ (102 – 205)	7″ (178)	42″ (1067)	73 (33)
PT050-8A	11,000 (5000)	4.66″ – 8.06″ (118 – 205)	8″ (203)	60″ (1524)	123 (56)

Model	A in (mm)	A1** in (mm)	B in (mm)	C in (mm)	D in (mm)	E in (mm)	F in (mm)	G in (mm)	H in (mm)
PT-8 TROLLEY DIMENSIONS									
PT005-8A	2.6"" (66.0)	5.9" (149.9)	10" (254)	4.5" (114.3)	1" (25.4)	4" (101.6)	1.1" (27.9)	3.5" (88.9)	2.1" (53.3)
PT010-8A	2.5"" (63.5)	5.9" (149.9)	13" (330.2)	5.2" (132.1)	1.3" (33.0)	4.4" (111.8)	1.6" (40.6)	4.2" (106.7)	2.8" (71.1)
PT020-8A	2.6"" (66.0)	6.1" (154.9)	14.9" (378.5)	6.8" (172.7)	1.3" (33.0)	5.3" (134.6)	1.3" (33.0)	5.8" (147.3)	4.3" (109.2)
PT030-8A	2.6" (66.0)	7.9" (200.7)	14" (355.6)	6.4" (162.6)	1.6" (40.6)	5.5" (139.7)	1.6" (40.6)	5.8" (147.3)	4.5" (114.3)
PT050-8A	2.8" (71.1)	8.1" (205.7)	15.5" (139.7)	7.1" (180.3)	1.6" (40.6)	5.8" (147.3)	2.2" (55.9)	6.2" (157.5)	4.5" (114.3)

Model	J in (mm)	K in (mm)	L in (mm)	M* in (mm)	N* in (mm)	P1** in (mm)	R in (mm)	S in (mm)
PT-8 TROLLEY DIMENSIONS								
PPT005-8A	0.8" (20.3)	0.1" (2.54)	6.6" (167.6)	-	3.9" (99.1)	12.3" (312.4)	1.3" (33.0)	1.6" (40.6)
PT010-8A	0.8" (20.3)	0.1" (2.54)	6.6" (167.6)	-	4.3" (109.2)	12.9" (327.7)	1.5" (38.1)	1.6" (40.6)
PT020-8A	1.1" (27.9)	1.2" (30.5)	7.5" (30.5)	-	4.3" (109.2)	13.8" (350.5)	1.5" (38.1)	1.6" (40.6)
PT030-8A	1.1" (27.9)	1.4" (35.6)	8.6" (218.4)	-	5.4" (137.2)	14.1" (358.1)	1.9" (48.3)	2.6" (66.0)
PT050-8A	1.6" (40.6)	1.4" (35.6)	9.8" (248.9)	-	6.6" (167.6)	15.6" (396.2)	2.5" (63.5)	2.6" (66.0)

**Minimum dimension.*
***Dimension for standard shaft length only.*

Silver Series Lever Chain Hoists

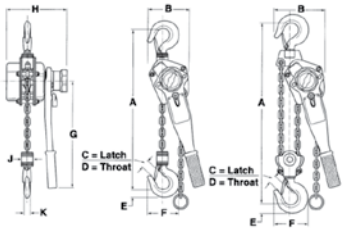
3/4 to 6 Metric Ton Lifting Capacity

Meeting ANSI / ASME B30.16 and all pertinent world standards, the "-E" signifies compliance with Europe's EC95 Machinery Directive.
The patent-pending, arrow-notch free-chain system is simple and reliable. Just one hand turns the indicator, and operators will enjoy the easiest free-chaining we have ever tested. Try to operate a Silver Series hoist in free-chain mode and the brake instantly engages, holding the load and minimizing the risk of an accident. Specify required lift in feet in the "L" position of model number.



Silver Series hoists have a zinc-nickel-chrome-plated finish. It's more durable and corrosion-resistant than paint. Plus, the Silver Series has the quality features you expect from Ingersoll Rand.

- All-steel construction
- 360º handle rotation
- Rubber handle grip in all sizes
- Reliable disc brake
- Premium-grade alloy chain
- Hardened swivel-latch hooks
- Lightweight
- Low handle force
- Short handle stroke
- Standard lifts of 5, 10, 15, and 2



How to order

Specify required lift in feet in the "L" position of model number.

Example

SL150-15-A = 3/4 ton, with 15 feet of lift.

Model	Rated Capacity Metric tons	(lb)	Pull to Lift Rated Load lb	No. of Chain Falls	A mm (in)	B mm (in)	C mm (in)	D mm (in)	E mm (in)	F (min) mm (in)	Ø mm (in)	Load Chain Size mm	(in)
SILVER SERIES CHAIN HOISTS													
SLB150-L-A	3/4	(1,650)	41	1	158 (6.2)	93 (3.6)	132 (5.2)	308 (12.1)	29 (1.1)	330 (13)	37 (1.5)	6 X 18	(0.24 x 0.71)
SLB200 L-A	1	(2,200)	60	1	163 (6.4)	95 (3.7)	140 (5.5)	308 (12.1)	32 (1.3)	365 (14.4)	40 (1.6)	6 X 18	(0.24 x 0.71)
SLB300 L-A (0.28 x 0.84)	1-1/2	(3,300)	53	1	185 (7.3)	106 (4.2)	145 (5.7)	378 (14.9)	35 (1.4)	400 (15.7)	45 (1.8)	7.1 x 21.2	
SLB600 L-A	3	(6,600)	53	1	212 (8.4)	118 (4.6)	199 (7.8)	418 (16.5)	44 (1.7)	520 (20.5)	55 (2.2)	10 x 30	(0.39 x 1.18)
SLB1200 L-A	6	(13,200)	57	2	212 (8.4)	118 (4.6)	230 (9.1)	418 (16.5)	50 (2)	640 (25.2)	65 (2.6)	10 x 30	(0.39 x 1.18)

SMB Manual Chain Hoists

Ingersoll Rand SMB Silver Series manual chain hoists offer the strength and durability you need in tough lifting situations. Their high-strength, all-stamped steel construction provides decreased weight and better impact resistance. In addition, the hoists feature roller bearings on input shafts and efficient gear reductions for easier lifting. Standard overload protection reduces downtime and repair costs resulting from abuse.

- Efficient gear reductions minimize hand chain overhauled to lift loads
- Encased and retained roller bearings for increased efficiency and ease of maintenance
- Single chain fall through 3 tons
- Nickel / chrome-plated exterior and zinc-plated frame components for increased corrosion resistance
- Double hand chain guides for smooth operation when pulling excess chain
- Open frame design for easy cleaning and inspection
- CE certified; hoists meet or exceed regional requirements including ASME B30.16, HST-2M
- Hardened swivel-latch hooks





Double load chain guides for proper load-chain tracking and smooth operation around load sheave.

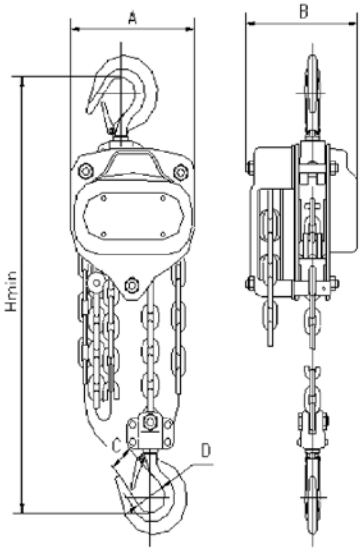
Silver Series SMB manual chain hoists are ideal for these applications:

- Offshore drilling rigs
- Oil refineries and chemical plants
- Shipbuilding and shipyards
- Mining
- Utilities
- Steel mills and foundries
- General construction
- Maintenance and repairs
- Rigging

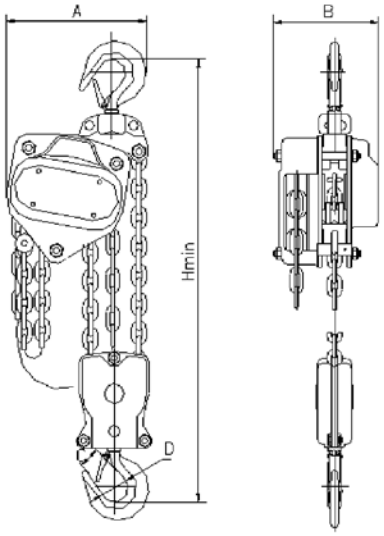
How to order:
Specify required liftin feet in the "L" position and hand chain length in feet in the "H" position.

Example:
10-8VA = 1/2 ton 10 ft lift, 8ft hand chain

Model	Rated Capacity Metric Tons (lb)	No. of Chain Falls	Pull to Lift Rated Load lb	A in (mm)	B in (mm)	C in (mm)	D in (mm)	H (min) in (mm)	Load Chain Size in (mm)	Hoist Net Weight with 10' (3 m) Lift lb
SMB005	1/2 (1,100)	1	55	5.2" (131)	5.4" (137)	1.1" (29)	1.5" (37)	12.8" (325)	0.20" x 0.59" (5 X 15)	23.5
SMB010	1 (2,200)	1	64	5.9" (151)	6" (152.5)	1.3" (32)	1.6" (40)	13.8" (350)	0.24" x 0.71" (6 X 18)	26.8
SMB015	1-1/2 (3,300)	1	69	7" (177)	6.8" (173)	1.4" (35)	1.8" (45)	17.1" (435)	0.26" x 0.83" (7.1 x 21)	38.5
SMB020	2 (4,400)	1	77	7.6" (192)	6.9" (176)	1.6" (40)	2" (50)	18.2" (463)	0.31" x 0.94" (8 x 24.6)	42.4
SMB030	3 (6,600)	1	100	9.4" (238)	8.0" (204)	1.7" (44)	2.2" (55)	20.9" (530)	0.39" x 1.18" (10 x 30)	70.4
SMB050	5 (11,000)	2	83	11.2" (285)	7.4" (188)	2" (50)	2.6" (65)	28" (710)	0.35" x 1.06" (9 x 27.2)	90.2



SMB005-030



SMB050


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