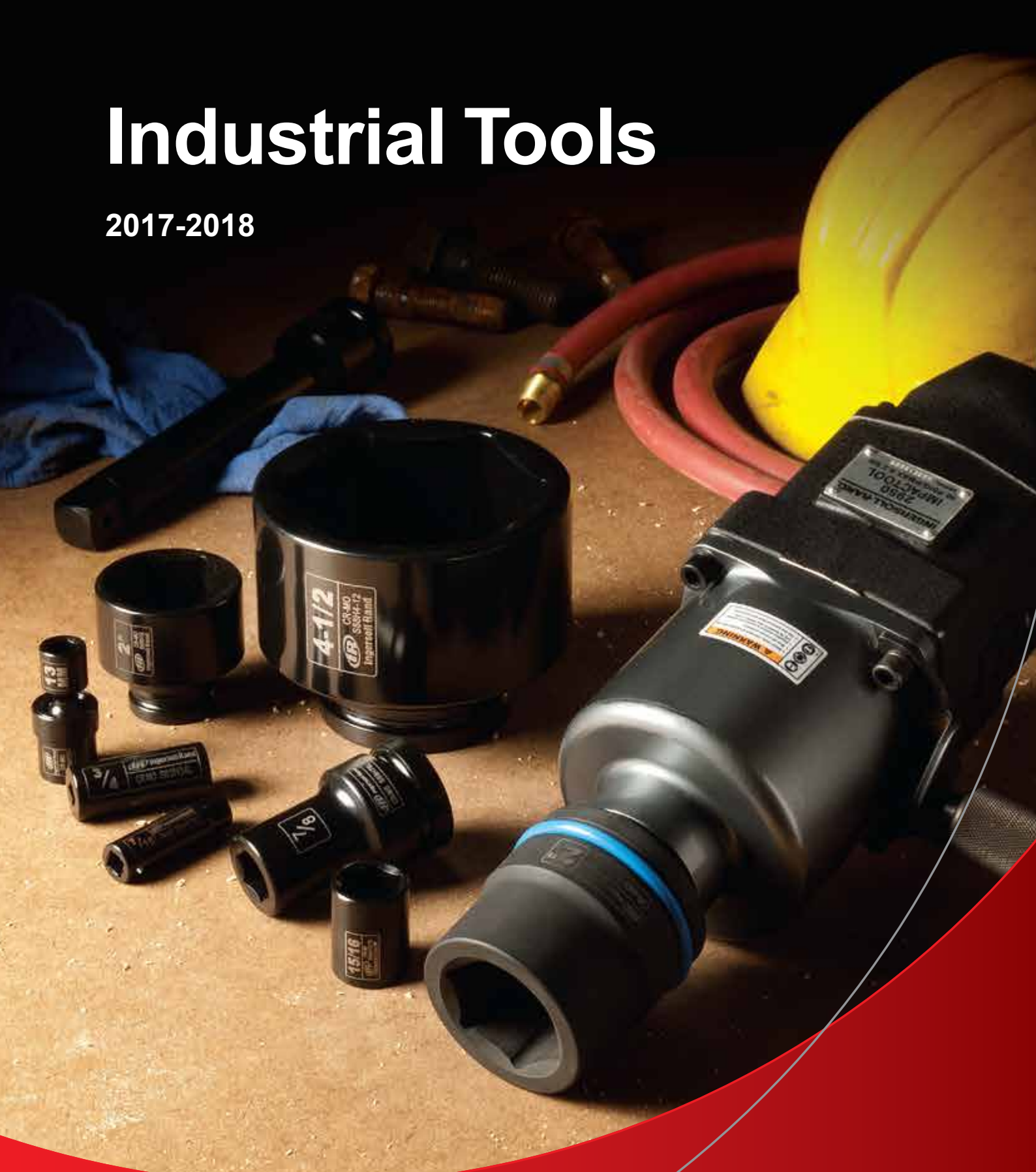


# Industrial Tools

2017-2018



# Technical Symbols

## Tools Performance Classific

### HHH Super-duty tools

These tools are designed to tackle the most extreme jobs. Advanced technology gives these tools superior strength and durability across the widest range of applications.































### HH Heavy-duty tools

The heavy-duty tools are top-quality models that exceed the requirements of highly demanding applications and environments. They are engineered with special features for top power, speed and comfort.

### H Maintenance-duty tools

Maintenance-duty tools are durable, high-quality, impressively powerful.

For ease of use, specification tables frequently use symbols in column headings. Please reference the chart below for exact descriptions.

	Voltage		Piston stroke
	Maximum torque in reverse		Collet capacity
	Recommended forward torque range		Shank diameter
	Torque range / Cutch spring size		Wheel diameter
	Blows per minute		Pad diameter
	Maximum free speed		Maximum chuck capacity
	Tool weight		Spindle thread
	Tool length		Side to centre distance
	Tool height		Orbital movement
	Maximum air consumption / flow		Rivet capacity
	Air inlet diameter		Spindle attachment
	Minimum hose diameter		Drilling capacity in steel
	Sound pressure		Reaming capacity in steel
	Vibration level		Tapping capacity in steel
	Rated power		Belt size

## Pneumatic

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Bolting

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Grinding & Finishing

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Percussive Tools

## Airline & Additional Accessories

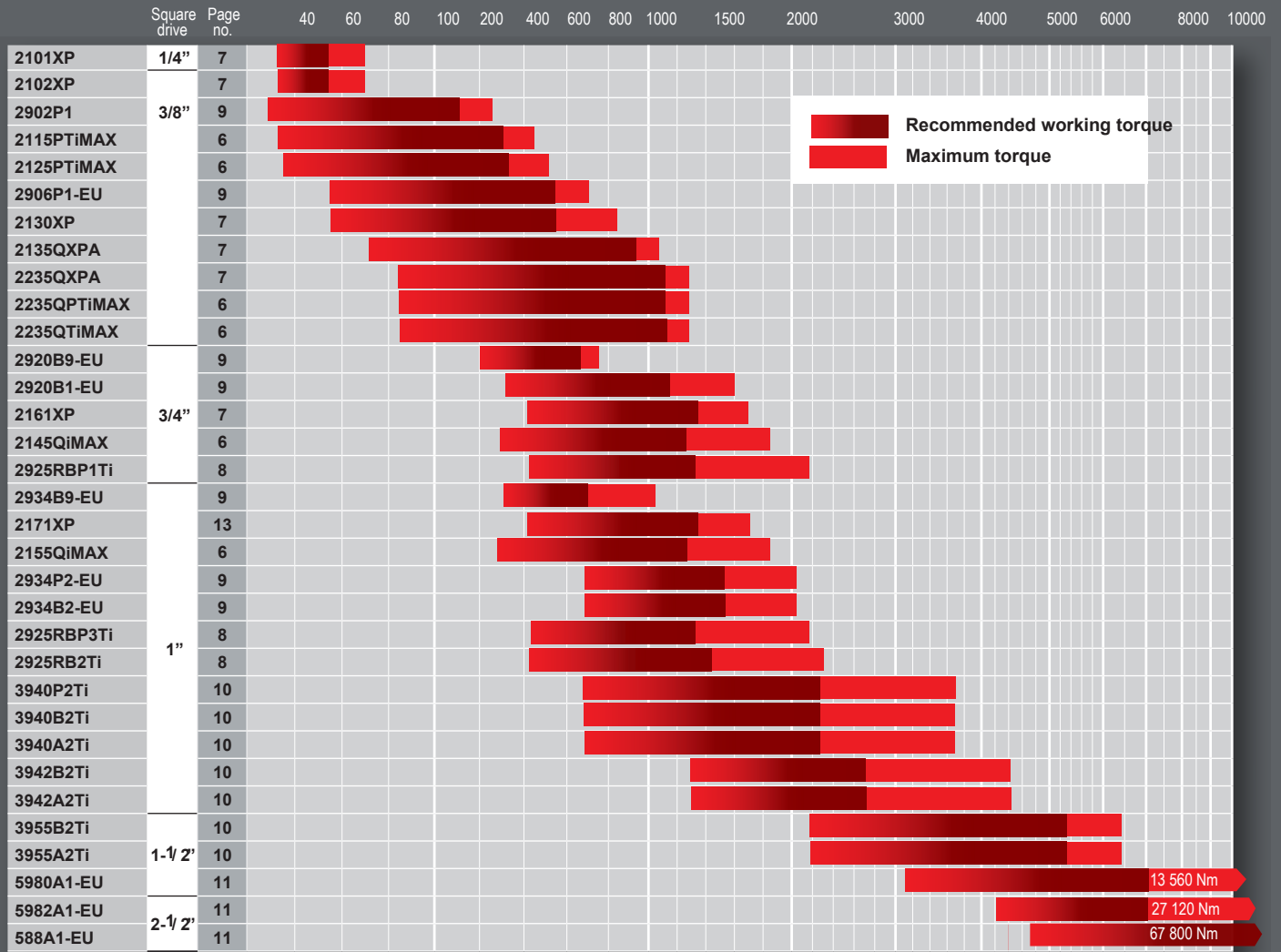
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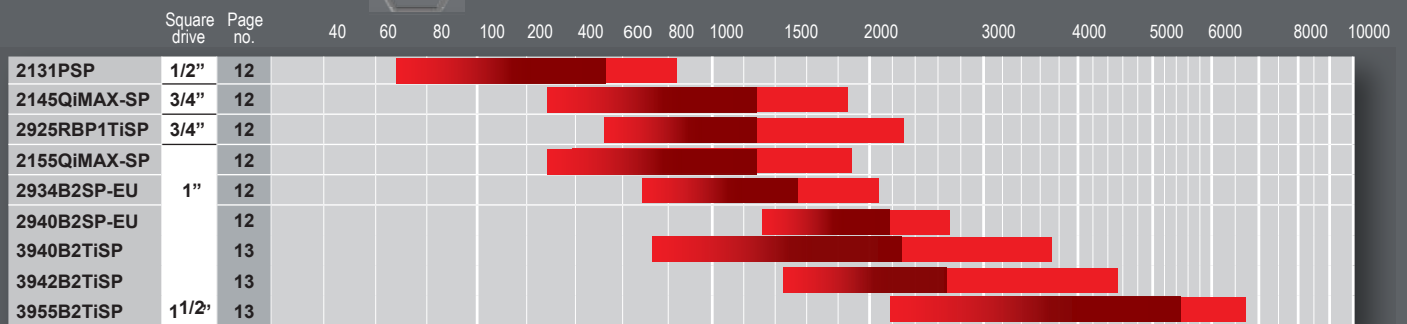
Accessories

# Pneumatic Bolting - Selection Chart

## Impactools



## ATEX Certified Impactools



# Bolting Torques

**DIN267 Bolt Grade:** bolt grade consists of two figures which refer to the following characteristics of the bolt:

1st digit = 10% of breaking load in kg/mm<sup>2</sup> — 2nd digit = 10% of ratio between minimum elastic limit and minimum breaking load.

Bolt Size	Hex Head	Maximum torque in Nm								
		0.85	1.1	1.5	1.4	1.9	2.3	2.9	4.1	4.9
M4	7	0.85	1.1	1.5	1.4	1.9	2.3	2.9	4.1	4.9
M5	9	1.7	2.2	3.0	2.8	3.7	4.5	6.0	8.5	10
M6	10	2.9	3.8	5.1	4.8	6.4	7.7	10	14	17
M8	13	7.0	9.3	12	12	16	19	25	35	41
M10	17	14	19	25	23	31	37	49	69	83
M12	19	24	32	43	40	54	65	86	120	145
M14	22	39	51	68	64	86	105	135	190	230
M16	24	59	79	105	98	130	155	210	295	355
M18	27	81	110	145	135	180	215	290	405	485
M20	30	115	155	205	190	255	305	410	580	690
M22	32	155	205	275	260	345	415	550	780	930
M24	36	200	265	350	330	440	530	710	1000	1200
M27	41	295	390	520	490	650	780	1050	1500	1800
M30	46	395	530	710	660	880	1050	1450	2000	2400
M33	50	540	720	960	900	1200	1450	1900	2700	3250
M36	55	690	920	1250	1150	1550	1850	2450	3450	4150
M39	60	920	1200	1600	1500	2000	2400	3200	4500	5400
M42	65	1100	1500	1950	1850	2450	2950	3950	5550	6650
M45	70	1400	1850	2450	2300	3100	3700	4950	6950	8350
M48	75	1700	2250	3000	2800	3750	4450	5950	8400	10100
M52	80	2150	2900	3850	3600	4800	5750	7650	10800	12900
M56	85	2700	3600	4800	4500	5950	7150	9550	13400	16100
M60	90	3350	4450	5950	5550	7400	8900	11900	16700	20000
M64	95	4000	5350	7150	6700	8950	10700	14300	20100	24100
M68	100	4850	6500	8650	8100	10800	13000	17300	24300	29100

## Impact Mechanisms

Ingersoll Rand Impacttools and Wrenches are available in a choice of configurations with straight or pistol grip handles and inside or outside triggers - Square drives from 3/8" to 2" are offered. They use the most advanced materials and design to provide unequalled power to weight ratios – some tools are specially designed for use in hazardous industrial areas.



### Three powerful impact mechanism designs available

**Twin Hammer**, delivers more power per pound and is less sensitive to air pressure fluctuations than any other design – Smooth, balanced blow – High power-to-weight ratio – Suitable for hard or soft-draw applications. This Ingersoll Rand technology has become the industry standard. An automatic pressure feed grease system supplies grease to the impact mechanism.



**Jumbo Hammer**, performs similarly to the Twin Hammer but contains only three working parts. An automatic pressure feed grease system supplies grease to the impact mechanism.



**Ball & Cam**, mechanisms are ideal for soft draw applications and are commonly used in larger impacttools.

# Pneumatic Bolting

## MAX-Series Air Impacttools HHH Heavy-duty classification

The 2100MAX Series are premium quality tools for the most demanding applications. Engineered with special features for maximum power, control and reliability. Their new design includes enhanced controls for even greater comfort and convenience

**Performance:** Ingersoll Rand Twin Hammer impact mechanism is the strongest, most durable and longest life mechanism in the industry.

**Control:** feather-touch trigger, wider range of power regulator settings in forward, always maximum power in reverse.

**Comfort:** ergonomic composite housing is lightweight, protects from cold air and offers great operator comfort. Patented Quiet Tool technology - reduces sound levels caused by air pulsating through the impact motor.



MAX-Series power and reverse controls



2125PTiMAX



35MAX



2235QPTiMAX



2145QiMAX & 2155QiMAX

### Technical Specifications at 6.2 bar (90 psi) dynamic pressure at inlet

Model No.	CPN	in	Nm Recom.	Nm Max.	rpm	Min.	kg	mm	in (NPT)	l/s	dB(A)	m/s <sup>2</sup> / K <sup>(1)</sup>
<b>Air Impacttools / Twin Hammer Mechanism</b>												
2115PTiMAX	45587540	3/8" pin type	34-312	407	15 000	1 500	1.13	151	1/4"	10	8.0	7.5 / 1.8
2125PTiMAX	45587565	1/2" pin type	34-340	450	15 000	1 500	1.14	155	1/4"	10	8.0	7.5 / 1.8
35MAX	47544404001	1/2" ring type	34-490	610	8000	1250	1.09	117	1/4"	10	8.0	6.4/1.0
2235QPTiMAX	45535572	1/2" pin type	68-1180	1220	9 800	1 250	2.00	187	1/4"	10	11.3	13.3 / 4.6
2235QTiMAX	47517574001	1/2" ring type	68-1180	1220	9 800	1 250	2.00	187	1/4"	10	11.3	13.3 / 4.6
2145QiMAX	45624327	3/4" ring type	271-1220	1 830	1 150	1 150	3.35	217	3/8"	13	15.1	8.7 / 2.7
2155QiMAX	47123450	1" ring type	271-1220	1 830	1 150	1 150	3.40	225	3/8"	13	15.1	8.7 / 2.7

(1) ISO28927 – 3-axis measurement: vibration level / measurement uncertainty.



2235M-BOOT



2145M-BOOT

### 2100MAX-Series Accessories

Model No.	CPN	Description	Compatibility
2115M-BOOT	45602174	Protective tool boot in vinyl material	2115PTiMAX, 2115QPTiMAX, 2125PTiMAX, 2125QPTiMAX
2235M-BOOT	47520153001	Protective tool boot in vinyl material	2235QPTiMAX
2145M-BOOT	48385033	Protective tool boot in vinyl material	2145QiMAX, 2155QiMAX

# Pneumatic Bolting

## 2100XP-Series Air Impacttools

# HH

Maintenance-duty classification

Perfect for any maintenance and repair application, the 2100XP Series tools deliver maximum power and control, along with unmatched reliability that comes from more than a century of proven engineering and innovation.

**Performance:** Ingersoll Rand Twin Hammer impact mechanism is the strongest, most durable and longest life mechanism in the industry.

**Control:** one-hand forward/reverse switch for easy operation and power regulator.

**Comfort:** ergonomic handle design and textured finish provide a secure and comfortable grip.



2135XP

Bolting



2102XPA

2130XP

2135QXPA

2235QXPA

2171XP  
2161XP

### Technical Specifications at 6.2 bar (90 psi) dynamic pressure at inlet

Model No.	CPN	in	Nm Recom.	Nm Max.	rpm	Min	kg	mm	in (NPT)	mm	l/s	dB(A)	m/s <sup>2</sup> / K <sup>(1)</sup>
<b>Air Impacttools / Simple Hammer Mechanism</b>													
<b>2101XPA</b>	16599466	1/4" ring type	34-54	68	11 000	1 250	0.62	165	1/4"	10	8.6	85.8	4.4 / 0.8
<b>2102XPA</b>	16619686	3/8" ring type	34-54	68	11 000	1 250	0.63	165	1/4"	10	8.6	85.8	4.4 / 0.8
<b>Air Impacttools / Twin Hammer Mechanism</b>													
<b>2130XP</b>	80136112	1/2" ring type	34-474	816	9 500	1 200	1.90	187	1/4"	10	10.4	94.3	8.9 / 2.0
<b>2135QXPA</b>	47517913001	1/2" ring type	68-949	1057	11000	1 250	1.80	182	1/4"	10	10.8	86.0	13.3 / 4.6
<b>2235QXPA</b>	47532836001	1/2" ring type	68-1180	1220	9 800	1 250	2.10	187	1/4"	10	11.3	88.7	9.0 / 2.8
<b>2161XP</b>	01372085	3/4" ring type	407-1356	1 695	6 000	1 025	5.35	216	3/8"	13	21.5	94.7	9.8 / 1.8
<b>2171XP</b>	01378165	1" ring type	407-1356	1 695	6 000	1 025	5.47	226	3/8"	13	21.5	94.7	10.3 / 1.3

(1) ISO28927 – 3-axis measurement: vibration level / measurement uncertainty.

### 2100XP-Series Accessories

Model No.	CPN	Description	Compatibility
<b>2115M-BOOT</b>	45602174	Protective tool boot in vinyl material	2115XP, 2125XP
<b>2130-BOOT</b>	45505369	Protective tool boot in vinyl material	2130XP
<b>2135-BOOT</b>	45505377	Protective tool boot in vinyl material	2135QXPA
<b>2235M-BOOT</b>	47520153001	Protective tool boot in vinyl material	2235QXPA
<b>2161-BOOT</b>	45505401	Protective tool boot in vinyl material	2161XP, 2171XP

# Pneumatic Bolting

## 2925-Series Air Impacttools

# HHH

Super-duty classification

The 2925 Series comes with an unbeatable feature list which meets the most demanding requirements for enhanced performance and unbeatable durability in super heavy industrial applications.

**Performance:** Ingersoll Rand Twin Hammer impact mechanism.

**Durability:** Titanium hammer case is lightweight with unparalleled durability. Corrode-X™-corrosion resistant treatment on internal parts guards against contaminants in the air system.

**Adaptability:** the motor can be easily converted to provide maximum torque in forward direction for fastening applications.



2925RB2Ti



2925RBP3Ti



2925RB2Ti

### Technical Specifications at 6.2 bar (90 psi) dynamic pressure at inlet

Model No.	CPN	Profile	in <sup>(1)</sup>	Nm Recom.	Nm Max	rpm	min	kg	mm	in (NPT)	mm	l/s	dB(A)	m/s <sup>2</sup> / K <sup>(2)</sup>
Air Impactool / Twin Hammer Mechanism														
2925RBP1Ti	80147036	P	3/4" hole type	407-1288	2 169	5 200	1 050	5.44	225	3/8"	13	28.0	98.0	10.5/1.0
2925RBP3Ti	80147044	P	1" hole type	407-1288	2 169	5 200	1 050	5.54	230	3/8"	13	28.0	98.0	10.5/1.0
2925RB2Ti	80147051	B	1" hole type	407-1356	2 304	6 500	900	6.89	334	3/8"	13	28.0	100.2	9.8/1.3

(1) Hole-type square drives for use with socket retaining rings (see description page 21).

(2) ISO28927 – 3-axis measurement: vibration level / measurement uncertainty.



See our impact sockets and impact socket sets on pages 21-22



# Pneumatic Bolting

## 2900-Series Air Impacttools

**HHH** Super-duty classification

The 2900 Series is designed with durability in mind, from the vanes turning the motor to the hammer frames and anvil for intensive and heavy-duty industrial maintenance and production applications.

**Control:** 5-position power regulator helps adjusting the power to the application on 2902P1 and 2906P1. 90° angle drive available on 2920 and 2934 impacttools.

**Reliability:** Ingersoll Rand Twin Hammer impact mechanism (except 2902P1). Pressure-fed mechanism lubrication.

**Comfort:** integral muffler reducing operator's fatigue. Ergonomic auxiliary handle provides excellent maneuverability.



2920B1-EU

Bolting



### Technical Specifications at 6.2 bar (90 psi) dynamic pressure at inlet

Model No.	CPN	Profile	in <sup>(1)</sup>	Nm Recom.	Nm Max.	rpm	Min	kg	mm	in (NPT)	mm	l/s	dB(A)	m/s <sup>2</sup> / K <sup>(2)</sup>
<b>Air Impacttool / Jumbo Hammer Mechanism</b>														
<b>2902P1</b>	01198498	<b>P</b>	3/8" pin type	27-163	244	10 000	1 500	1.25	140	1/4"	10	7.0	79.7	7.6 / 1.8
<b>Air Impacttool / Twin Hammer Mechanism</b>														
<b>2906P1-EU</b>	01337609	<b>P</b>	1/2" pin type	54-475	678	5 000	1 200	2.72	175	1/4"	10	10.8	83.7	7.2 / 0.8
<b>2934P2-EU</b>	01337989	<b>P</b>	1" hole type	678-1490	2 034	5 300	825	9.07	219	1/2"	19	22.1	92.4	18.3 / 5.3
<b>2920B1-EU</b>	01338045	<b>B</b>	3/4" hole type	339-1085	1 492	5 000	950	5.98	318	3/8"	13	17.0	87.9	19.9 / 6.6
<b>2934B2-EU</b>	01337591	<b>B</b>	1" hole type	678-1490	2 034	6 600	750	8.39	286	1/2"	19	22.1	97.9	18.8 / 3.7
<b>2920B9-EU</b>	01338896	<b>B9</b>	3/4" hole type	203-678	746	5 000	950	10.75	445	3/8"	13	17.0	91.8	19.9 / 6.6
<b>2934B9-EU</b>	01338227	<b>B9</b>	1" hole type	339-678	1 017	5 300	780	16.2	473	1/2"	19	22.1	96.2	30.8 /

(1) Hole-type square drives for use with socket retaining rings (see description page 21).

(2) ISO28927 – 3-axis measurement: vibration level / measurement uncertainty.

### 2900-Series Accessories

Model No.	CPN	Description	Compatibility
<b>212-BOOT</b>	45505344	Protective tool boot in vinyl material	2902P1

# Pneumatic Bolting

## 3900-Series Air Impacttools

**HHH** Super-duty classification

The revolutionary design of the 3900 Series gives more power and greater durability than any competitive model. From the inside out, the comprehensive list of features and benefits makes it the only choice for professionals in the oil and gas, power generation and other demanding industries.

**Performance:** 6780 Nm (5 000 ft-lb) of maximum torque in reverse. Twin Hammer impact mechanism. High-performance motor package includes 7-vane rotor and bronze end-plates – can be easily converted to provide maximum torque in forward direction for fastening applications.

**Durability:** lightweight titanium hammer case with unparalleled durability. Corrosion- and wear-resistant bronze end-plates.



### Technical Specifications at 6.2 bar (90 psi) dynamic pressure at inlet

Model No.	CPN	Profile	in <sup>(1)</sup>	Nm Recom.	Nm Max.	rpm	Min.	kg	mm	in (NPT)	mm	l/s	dB(A)	m/s <sup>2</sup> / K <sup>(2)</sup>
<b>Air Impacttool / Twin Hammer Mechanism</b>														
<b>3940P2Ti</b>	80162597	<b>P</b>	1" hole type	678-2237	3 729	5 300	800	9.3	256	1/2"	19	35	97.8	14.2 / 2.0
<b>3940B2Ti</b>	10568301	<b>B</b>	1" hole type	678-2237	3 729	6 000	800	9.6	341	1/2"	19	35	106.6	13.1 / 1.6
<b>3942B2Ti</b>	80152978	<b>B</b>	1" hole type	1356-2644	4 407	5 000	850	10.5	361	1/2"	19	44	103.4	16.9 / 4.6
<b>3955B2Ti</b>	80151103	<b>B</b>	1-1/2" hole type	2170-5290	6 780	2 750	700	15.7	423	1/2"	19	37	102.0	20.8 / 8.5
<b>3940A2Ti</b>	80150402	<b>A</b>	1" hole type	678-2237	3 729	6 000	800	9.6	341	1/2"	19	35	106.6	13.1 / 1.6
<b>3942A2Ti</b>	80152960	<b>A</b>	1" hole type	1356-2644	4 407	5 000	850	10.5	361	1/2"	19	44	103.4	16.9 / 4.6
<b>3955A2Ti</b>	80153562	<b>A</b>	1-1/2" hole type	2170-5290	6 780	2 750	700	15.7	423	1/2"	19	37	102.0	20.8 / 8.5

(1) Hole-type square drives for use with socket retaining rings (see description page 21).

(2) ISO28927 – 3-axis measurement: vibration level / measurement uncertainty.

# Pneumatic Bolting

## 5000-Series Air Impacttools

# HHH

Super-duty classification

The 5000 Series is designed with durability in mind, from the vanes turning the motor to the hammer frames and anvils. Proprietary hardening and treatment processes and excellence in manufacturing all add up to the longest lasting, hardest hitting impact tools in the business. Up to 108 000 Nm of power, for the most demanding applications in the world.

**Performance:** for fast removal and tightening of large fasteners. 599A1-EU model is the most powerful Impacttool in the world.

**Convenience:** portable, easy to handle or suspend with vertical and horizontal hangers.

**Durability:** built-in lubricator and high resistance hammer case.



Bolting



5980A1-EU














5982A1-EU



588A1-EU

### Technical Specifications at 6.2 bar (90 psi) dynamic pressure at inlet

Model No.	CPN	 in <sup>(1)</sup>	 Nm Recom.	 Nm Max.	 rpm	 Min.	 kg	 mm	 in (NPT)	 mm	 l/s	 dB(A)
<b>Air Impacttool / Ball &amp; Cam Impact Mechanism</b>												
<b>5980A1-EU</b>	01337799	1-1/2" hole type	3119-7460	13 560	830	1000	39.9	584	3/4"	25	65	106.1
<b>5982A1-EU</b>	01338516	2-1/2 hole type	5424-13560	27 120	830	850	54.5	645	3/4"	25	61	105.1
<b>588A1-EU</b>	01337880	2-1/2 hole type	16270-33900	67 800	355	550	97.5	646	1"	25	73	113.0

(1) Hole-type square drives for use with socket retaining rings (see description page 21).

# Pneumatic Bolting



## ATEX Certified Drills & Impacttools

**HHH** Super-duty

Ingersoll Rand has always offered products to be used in hazardous atmospheres. As well as the standard classic Impacttools with housings in a special spark resistant alloy, investment in low static spark composite technology has made possible a new range of lightweight impacttools which are fully certified to classifications under the new European ATEX Directives 2014/34/EU. These are the tool of choice for specialized applications within the petrochemical and mining industries, and in any production or processing areas where hazardous atmospheres can occur.

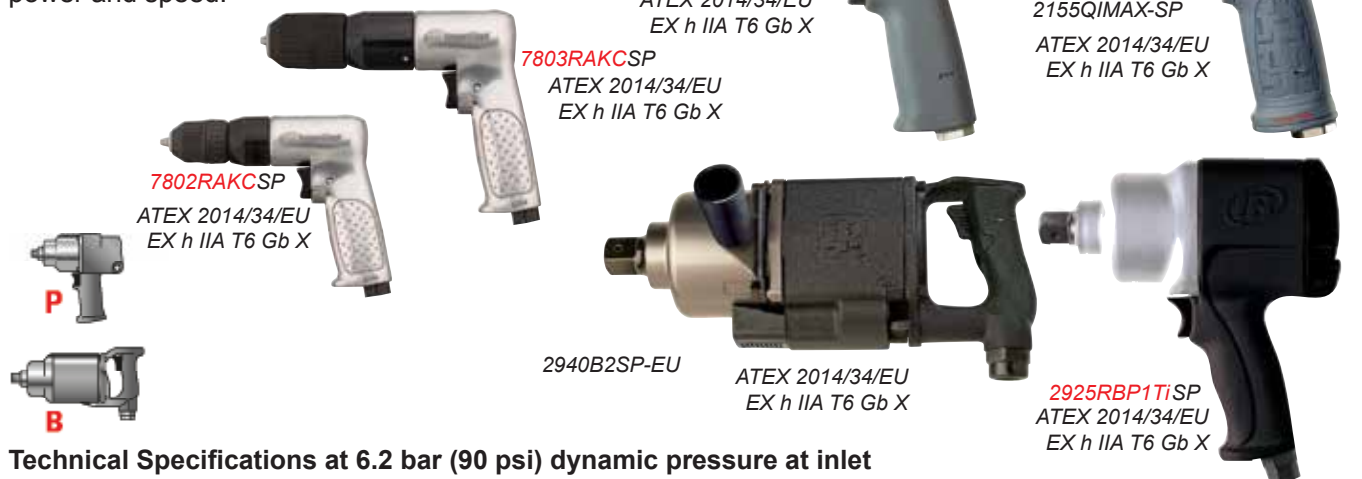
**Safety:** ATEX certification Ex h IIA T6 Gb X allows these tools to be used in potentially explosive atmosphere in compliance with European Community Directives 2014/34/EU.

**Reliability:** Ingersoll Rand Twin Hammer impact mechanism. Pressure-fed mechanism lubrication.

**Control:** feather-touch trigger allows precise delivery of power and speed.



2145QiMAX-SP



### Technical Specifications at 6.2 bar (90 psi) dynamic pressure at inlet

Model No.	CPN	Profile	in (1)	Nm Recom.	Nm Max.	rpm	Min.	kg	mm	in (NPT)	mm	l/s	dB(A)	m/s <sup>2</sup> / K(2)
<b>Air Impacttool / Twin Hammer Mechanism</b>														
<b>7802RAKCSP</b>	7802RAKCSP	<b>P</b>	Keyless chuck	---	7	2000	---	1.36	175	1/4"	10	1.9	83.0	2.8 / 0.7
<b>7803RAKCSP</b>	7803RAKCSP	<b>P</b>	Keyless chuck	---	28	500	---	1.63	200	1/4"	10	1.9	83.0	<2.5
<b>2131PSP</b>	45471687	<b>P</b>	1/2" hole type	68-542	813	9 500	1 250	2.00	190	1/4"	10	11.0	93.7	8.3 / 1.1
<b>2145QiMAX-</b>	47122585	<b>P</b>	3/4" hole type	271-1220	1 830	6 300	1 150	3.35	217	3/8"	13	15.1	96.3	8.7 / 2.7
<b>2155QiMAX-</b>	47122619	<b>P</b>	1" hole type	271-1220	1 830	6 300	1 150	3.36	225	3/8"	13	15.1	96.3	8.7 / 2.7
<b>2925RBP1SP</b>	2925RBP1SP	<b>P</b>	3/4" hole type	407-1288	2 169	5 200	1 050	5.44	225	3/8"	13	28.0	98.0	10.5 / 1.0
<b>2934B2SP-EU</b>	01337682	<b>B</b>	1" hole type	678-1490	2 034	6 600	750	10.0	286	1/2"	19	22.0	97.9	18.8 / 3.7
<b>2940B2SP-EU</b>	01337583	<b>B</b>	1" hole type	1360-2170	2 710	5 000	850	8.40	311	1/2"	19	27.0	97.8	17.8 / 3.4

(1) Hole-type square drives for use with socket retaining rings (see description page 21).

(2) ISO28927 – 3-axis measurement: vibration level / measurement uncertainty.

# Pneumatic Bolting



**ATEX Certified Air Impactools**

**HHH**

Super-duty classification



## Technical Specifications at 6.2 bar (90 psi) dynamic pressure at inlet

Model No.	CPN	Profile	in (1)	Nm Recom.	Nm Max.	rpm	Min.	kg	mm	in (NPT)	mm	l/s	dB(A)	m/s <sup>2</sup> / K <sup>(2)</sup>
<b>Air Impactool / Twin Hammer Mechanism</b>														
<b>3940B2TiSP</b>	<b>3940B2TiSP</b>	<b>B</b>	1" hole type	678-2237	3 729	6 000	800	9.6	341	1/2"	19	35	106.6	13.1 / 1.6
<b>3942B2TiSP</b>	<b>3942B2TiSP</b>	<b>B</b>	1" hole type	1356-2644	4 407	5 000	850	10.5	361	1/2"	19	44	103.4	16.9 / 4.6
<b>3955B2TiSP</b>	<b>3955B2TiSP</b>	<b>B</b>	1-1/2" hole type	2170-5290	6 780	2 750	700	15.7	423	1/2"	19	37	102.0	20.8 / 8.5

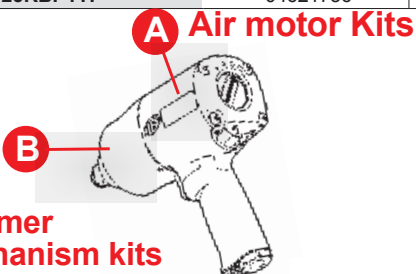
(1) Hole-type square drives for use with socket retaining rings (see description page 21).

(2) ISO28927 – 3-axis measurement: vibration level / measurement uncertainty.

## Service Kits

<b>A</b>			<b>B</b>		
<b>3/8" Square Drive Wrenches &amp; Impactools</b>					
2015MAX	47100474				47100359
2115PTiMAX	45585189				45585932
2115QTiMAX	45585189				45585932
2115XP	45585189				45585932
<b>1/2" Square Drive Wrenches &amp; Impactools</b>					
2025MAX	47100474				47100359
2125PTiMAX	45585189				45585932
2125QPTiMAX	45585189				45585932
2125XP	45585189				45585932
2130XP	80142375				80140528
2131PSP	45535028				80122153
2135QPTiMAX	45535028				80122153
2135QTiMAX	45535028				80119571
2135XP	45535028				80119571
2906P1-EU	03802360				-
<b>3/4" Square Drive Impactools</b>					
2145QiMAX	47100011				47102561
2145QiMAX-SP	47100011				47102561
2161XP	04621744				-
2161XP-6	04621744				-
2920B1-EU	03803095				-
2920B9-EU	03803095				-
2925RBP1Ti	04621736				-

<b>A</b>			<b>B</b>		
<b>1" Square Drive Impactool<sup>SM</sup></b>					
2155QiMAX	47100011				47102561
2155QiMAX-SP	47100011				47102561
2171XP	04621744				80137698
2925RB2Ti	10326163				-
2925RBP3Ti	04621736				-
2934B2-EU	03803111				-
2934B2SP-EU	03803111				-
2934B9-EU	03803111				-
2934P2-EU	03803111				-
2940B2SP-EU	03803129				-
3940A2Ti	80167943				-
3940B2Ti	80167943				-
3940P2Ti	80167943				-
3942A2Ti	80167950				-
3942B2Ti	80167950				-
<b>1-1/2" Square Drive Impactools</b>					
3955A2Ti	80166689				-
3955B2Ti	80166689				-



### **A** Air motor Kits



### **B** Hammer mechanism kits



**Hammer mechanism kits**

# Pneumatic Bolting

## Metric Impact Sockets

**HHH** *Super-duty classification*

	Standard socket	Standard socket	Deep socket	Standard socket	Deep socket	Standard socket	Deep socket	Standard socket	Deep socket	Standard socket	Deep socket	Standard socket
4 mm	S62M4	—	—	—	—	—	—	—	—	—	—	—
5 mm	S62M5	—	—	—	—	—	—	—	—	—	—	—
6 mm	S62M6	—	—	—	—	—	—	—	—	—	—	—
7 mm	S62M7	S63M7	S63M7L	—	—	—	—	—	—	—	—	—
8 mm	S62M8	S63M8	S63M8L	S64M8	S64M8L	—	—	—	—	—	—	—
9 mm	S62M9	S63M9	S63M9L	S64M9	S64M9L	—	—	—	—	—	—	—
10 mm	S62M10	S63M10	S63M10L	S64M10	S64M10L	—	—	—	—	—	—	—
11 mm	S62M11	S63M11	S63M11L	S64M11	S64M11L	—	—	—	—	—	—	—
12 mm	S62M12	S63M12	S63M12L	S64M12	S64M12L	—	—	—	—	—	—	—
13 mm	S62M13	S63M13	S63M13L	S64M13	S64M13L	—	—	—	—	—	—	—
14 mm	S62M14	S63M14	S63M14L	S64M14	S64M14L	—	—	—	—	—	—	—
15 mm	—	S63M15	S63M15L	S64M15	S64M15L	—	—	—	—	—	—	—
16 mm	—	S63M16	S63M16L	S64M16	S64M16L	—	—	—	—	—	—	—
17 mm	—	S63M17	S63M17L	S64M17	S64M17L	S66M17	S66M17L	—	—	—	—	—
18 mm	—	S63M18	S63M18L	S64M18	S64M18L	S66M18	—	—	—	—	—	—
19 mm	—	S63M19	S63M19L	S64M19	S64M19L	S66M19	S66M19L	S68M19	S68M19L	—	—	—
20 mm	—	S63M20	S63M20L	S64M20	S64M20L	S66M20	S66M20L	—	—	—	—	—
21 mm	—	S63M21	S63M21L	S64M21	S64M21L	S66M21	S66M21L	S68M21	S68M21L	—	—	—
22 mm	—	S63M22	S63M22L	S64M22	S64M22L	S66M22	S66M22L	S68M22	S68M22L	—	—	—
23 mm	—	—	—	S64M23	S64M23L	S66M23	S66M23L	S68M23	S68M23L	—	—	—
24 mm	—	—	—	S64M24	S64M24L	S66M24	S66M24L	S68M24	S68M24L	—	—	—
25 mm	—	—	—	S64M25	S64M25L	S66M25	S66M25L	S68M25	S68M25L	—	—	—
26 mm	—	—	—	S64M26	S64M26L	S66M26	S66M26L	S68M26	S68M26L	—	—	—
27 mm	—	—	—	S64M27	S64M27L	S66M27	S66M27L	S68M27	S68M27L	—	—	—
28 mm	—	—	—	S64M28	S64M28L	S66M28	S66M28L	S68M28	S68M28L	—	—	—
29 mm	—	—	—	S64M29	S64M29L	S66M29	S66M29L	S68M29	S68M29L	—	—	—
30 mm	—	—	—	S64M30	S64M30L	S66M30	S66M30L	S68M30	S68M30L	S612M30	—	—
31 mm	—	—	—	—	—	S66M31	S66M31L	—	—	—	—	—
32 mm	—	—	—	S64M32	S64M32L	S66M32	S66M32L	S68M32	S68M32L	S612M32	—	—
33 mm	—	—	—	S64M33	S64M33L	S66M33	S66M33L	S68M33	S68M33L	—	—	—
34 mm	—	—	—	S64M34	S64M34L	S66M34	S66M34L	S68M34	S68M34L	—	—	—
35 mm	—	—	—	—	—	S66M35	S66M35L	S68M35	S68M35L	S612M35	—	—
36 mm	—	—	—	S64M36	S64M36L	S66M36	S66M36L	S68M36	S68M36L	S612M36	—	—
37 mm	—	—	—	—	—	S66M37	—	—	—	—	—	—
38 mm	—	—	—	—	—	S66M38	S66M38L	S68M38	S68M38L	S612M38	—	—
40 mm	—	—	—	—	—	S66M40	S66M40L	S68M40	S68M40L	—	—	—
41 mm	—	—	—	—	—	S66M41	S66M41L	S68M41	S68M41L	S612M41	S612M41L	—
42 mm	—	—	—	—	—	S66M42	S66M42L	S68M42	S68M42L	—	—	—
43 mm	—	—	—	—	—	S66M43	S66M43L	—	—	—	—	—
45 mm	—	—	—	—	—	—	—	S68M45	S68M45L	—	—	—
46 mm	—	—	—	—	—	S66M46	S66M46L	S68M46	S68M46L	S612M46	S612M46L	—
48 mm	—	—	—	—	—	—	—	S68M48	S68M48L	—	—	—
50 mm	—	—	—	—	—	S66M50	S66M50L	S68M50	S68M50L	S612M50	S612M50L	—
52 mm	—	—	—	—	—	—	—	S68M52	S68M52L	—	—	—
54 mm	—	—	—	—	—	—	—	S68M54	S68M54L	S612M54	S612M54L	—
55 mm	—	—	—	—	—	—	—	S68M55	S68M55L	S612M55	S612M55L	—
56 mm	—	—	—	—	—	—	—	S68M56	S68M56L	—	—	—
58 mm	—	—	—	—	—	—	—	S68M58	S68M58L	S612M58	—	—
60 mm	—	—	—	—	—	—	—	S68M60	S68M60L	S612M60	S612M60L	—
65 mm	—	—	—	—	—	—	—	S68M65	S68M65L	S612M65	S612M65L	—
70 mm	—	—	—	—	—	—	—	S68M70	S68M70L	S612M70	S612M70L	—
75 mm	—	—	—	—	—	—	—	S68M75	S68M75L	S612M75	S612M75L	S620M75
80 mm	—	—	—	—	—	—	—	S68M80	S68M80L	S612M80	S612M80L	S620M80
85 mm	—	—	—	—	—	—	—	S68M85	S68M85L	S612M85	S612M85L	S620M85
90 mm	—	—	—	—	—	—	—	S68M90	S68M90L	S612M90	S612M90L	S620M90
95 mm	—	—	—	—	—	—	—	S68M95	S68M95L	S612M95	S612M95L	S620M95
100 mm	—	—	—	—	—	—	—	—	—	S612M100	S612M100L	S620M100
105 mm	—	—	—	—	—	—	—	—	—	S612M105	S612M105L	S620M105
110 mm	—	—	—	—	—	—	—	—	—	S612M110	S612M110L	S620M110
115 mm	—	—	—	—	—	—	—	—	—	S612M115	S612M115L	S620M115
120 mm	—	—	—	—	—	—	—	—	—	S612M120	S612M120L	S620M120
125 mm	—	—	—	—	—	—	—	—	—	S612M125	—	S620M125
130 mm	—	—	—	—	—	—	—	—	—	—	—	S620M130
135 mm	—	—	—	—	—	—	—	—	—	—	—	S620M135
140 mm	—	—	—	—	—	—	—	—	—	—	—	S620M140
145 mm	—	—	—	—	—	—	—	—	—	—	—	S620M145
150 mm	—	—	—	—	—	—	—	—	—	—	—	S620M150
155 mm	—	—	—	—	—	—	—	—	—	—	—	S620M155
160 mm	—	—	—	—	—	—	—	—	—	—	—	S620M160
165 mm	—	—	—	—	—	—	—	—	—	—	—	S620M165
170 mm	—	—	—	—	—	—	—	—	—	—	—	S620M170
175 mm	—	—	—	—	—	—	—	—	—	—	—	S620M175
180 mm	—	—	—	—	—	—	—	—	—	—	—	S620M180



# Pneumatic Bolting




## Metric Impact Socket Sets





**HHH** Super-duty classification



- Impact-grade toughness – designed for high-torque applications.
- Forged chrome-molybdenum steel for high strength durability.
- Electro-phosphate finish on 1/4 to 1" drive sizes – projects a sleek look and high visibility.
- Laser-etched socket size labelling for easy size identification.

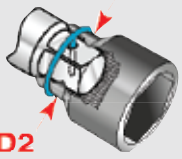
Sockets sold individually. See next page

PART No.	Square drive and CPN	Description
Model no. <b>SK2M12</b> 	<b>1/4"</b> CPN: 81287336	Contains 6, 7, 8, 9, 10, 11, 12, 13 and 14 mm sockets, 50 and 100 mm extensions bars, 3/8"F to 1/4"M adapter.
Model no. <b>SK3M10</b> 	<b>3/8"</b> CPN: 81287344	Contains 9, 10, 11, 12, 13, 14, 15, 16, 17 and 19 mm sockets.
Model no. <b>SK4M5L</b> 	<b>1/2"</b> CPN: 81287369	Contains 5 deep sockets (17, 19, 21, 22 and 24 mm).
Model no. <b>SK4M14</b> 	<b>1/2"</b> CPN: 81287351	Contains 14 sockets (10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 23 and 24 mm).

PART No.	Square drive and CPN	Description
Model no. <b>SK4M18</b> 	<b>1/2"</b> CPN: 81287385	Contains 9 standard sockets (10, 11, 13, 14, 17, 19, 21, 22 and 24 mm), 4 deep sockets (13, 14, 21 and 24 mm), 3 deep / thin wall sockets (17, 19 and 21 mm), 125 mm extension bar and 1/2" square drive power joint.
Model no. <b>SK4M7U</b> 	<b>1/2"</b> CPN: 80171093	Contains 7 sockets, pre-fitted on power joints to facilitate works with very limited accessibility (13, 14, 15, 17, 19, 21 and 22 mm)
Model no. <b>SK6M6L</b> 	<b>3/4"</b> CPN: 81287401	Contains 6 extended sockets (24, 27, 30, 32, 33 and 36 mm).
Model no. <b>SK8M4L</b> 	<b>1"</b> CPN: 81287419	Contains 4 extended sockets (27, 30, 32 and 33 mm).

Bolting

## Retaining Rings



Part no.	CPN	Qty.	Internal Ø	Material
RR10001	49825524	10	15.0 mm	Plastic
RR10002	49825532	10	17.0 mm	Plastic
RR10003	49825540	10	19.0 mm	Plastic
RR10004	49825557	10	20.0 mm	Plastic
RR10005	49825565	10	22.0 mm	Plastic
RR10006	49825573	10	24.0 mm	Plastic
RR10007	49825581	10	24.0 mm	Plastic
RR10008	49825599	10	29.0 mm	Plastic
RR10005S	03816055	1	32.0 mm	Plastic + Steel insert
RR10009	49825607	10	33.0 mm	Plastic
RR10032S	03809258	1	36.5 mm	Plastic + Steel insert

Part no.	CPN	Qty.	Internal Ø	Material
RR10010	80206477	10	37.0 mm	Plastic
RR10034S	03809266	1	41.5 mm	Plastic + Steel insert
RR10008S	03809274	1	44.5 mm	Plastic + Steel insert
RR10010S	03809282	1	49.0 mm	Plastic + Steel insert
RR10015S	03809290	1	54-57 mm	Plastic + Steel insert
RR10017S	03816063	1	63.5 mm	Plastic + Steel insert
RR10019S	03809308IRI	1	67.0 mm	Plastic + Steel insert
RR10020S	03809316	1	76.0 mm	Plastic + Steel insert
RR10025S	03809324	1	86.0 mm	Plastic + Steel insert
RR10030S	03809332	1	98.5 mm	Plastic + Steel insert
RR10035S	03809340	1	111.0 mm	Plastic + Steel insert

Because of the elasticity of the material, the diameter at the female square drive of the socket (D2) can be slightly larger than the ring.  
Note: The retainer rings must have a tight fit on the socket

# Pneumatic Rammers/Tampers and Vibrators

## Rammers HHH Super-duty classification



### Technical Specifications at 6.2 bar (90 psi) dynamic pressure at inlet

Model No.	CPN	Min.	mm	kg	mm	mm	mm	NPTF	mm	dB(A)	m/s <sup>2</sup> / K(1)
<b>Chisel and Needle Scalers</b>											
<b>130A1M-EU</b>	01338151	870	63	5.2	546	64	-	1/4"	10	93.2	38.9 / 12.8
<b>241A1M-EU</b>	01339027	1590	102	12.2	1340	76	-	3/8"	13	103.3	56.2 / 18.5
<b>341A2M-EU</b>	01337856	1550	102	15.8	1340	-	146	3/8"	13	102.9	59.0 / 19.5
<b>441A2-EU</b>	01339977	1750	102	21.4	1292	-	146	3/8"	13	106.4	85.8 / 28.3

(1) ISO28927 – 3-axis measurement: vibration level / measurement uncertainty.

## Vibrators HHH Super-duty classification



### Technical Specifications at 6.2 bar (90 psi) dynamic pressure at inlet

Model No.	CPN	mm	mm	Hz	vpm	kg	BSP	mm	dB(A)	m/s <sup>2</sup> / K(1)
<b>Chisel and Needle Scalers</b>										
<b>DV28-EU</b>	92467943	28	15	300	18000	4.5	1"	10	103.8	3.4 / 0.8
<b>DV35-EU</b>	92467950	35	25	308	18500	6.1	1"	10	107.2	1.1 / 0.6
<b>DV45-EU</b>	92467968	45	38	283	17000	7.9	1"	10	113.0	5.3 / 1.0
<b>DV55-EU</b>	92467976	55	45	283	17000	9.1	1"	13	109.0	6.8 / 1.2
<b>DV65-EU</b>	92467984	64	54	300	18000	11.1	1"	13	113.0	5.8 / 1.1
<b>DV75-EU</b>	92467992	76	64	300	18000	14.5	1"	13	112.1	8.4 / 1.3
<b>DV105-EU</b>	92468008	105	100	225	13500	23.0	1"	19	112.1	12.5 / 1.7

(1) ISO28927 – 3-axis measurement: vibration level / measurement uncertainty.





# Next-Generation Productivity

## Ingersoll Rand QX Series Cordless Torque Multiplier

The innovative QX Series Cordless Torque Multiplier will reduce your assembly time and cost, while ensuring repeatable accuracy for all torque-critical joints. Designed with a premium gearbox and an efficient, time-tested closed loop transducer, this tool will fasten the bolt, validate, and record each result, managing your total operation.

### RELIABILITY

The proven QX Series brushless motor paired with a premium gearbox for unparalleled quality

### COMMUNICATION

Manage data, process control and the ability to adjust tool configurations (Ethernet, fieldbus and I/O capable)

### ACCURACY

Ingersoll Rand's patented closed-loop transducer control at the heart of the tool delivers precise torque and accurate, traceable

configurations (Ethernet, fieldbus

### COMFORT

Cordless and compact, the QX Series Multiplier allows operators to move freely without the need of bulky air hydraulic hoses, compressors, generators or powerpacks

### CONTROL

User-programmable configurations for torque, angle and gang count that reduces the number of tools needed for multiple applications.

### FLEXIBILITY

360 degree adjustable arm and 6mm port for eye-hook or other teathering point



Bolting

Model No = smart CPN	Nm	rpm	kg.*	mm	in	V	Communication
<b>Air Impacttools / Simple Hammer Mechanism</b>							
<b>QXC2PT200NPS12</b>	40-200	45	3.8	373	3/4" hole type	20	Via USB Cable Only
<b>QXC2PT500NPS12</b>	100-500	18	3.8	373	3/4" hole type	20	Via USB Cable Only
<b>QXC2PT1000NPS12</b>	200-1000	9	6.5	419	3/4" hole type	20	Via USB Cable Only
<b>QXC2PT1350NPS16</b>	270-1350	7	6.5	419	1" hole type	20	Via USB Cable Only
<b>QXC2PT2000NPS16</b>	400-2000	5	6.8	452	1" hole type	20	Via USB Cable Only
<b>QXX2PT200NPS12</b>	40-200	45	3.8	373	3/4" hole type	20	Wirelss & USB **
<b>QXX2PT500NPS12</b>	100-500	18	3.8	373	3/4" hole type	20	Wirelss & USB **
<b>QXX2PT1000NPS12</b>	200-1000	9	6.5	419	3/4" hole type	20	Wirelss & USB **
<b>QXX2PT1350NPS16</b>	270-1350	7	6.5	419	1" hole type	20	Wirelss & USB **
<b>QXX2PT2000NPS16</b>	400-2000	5	6.8	452	1" hole type	20	Wirelss & USB **

\*Weight and length do not include battery. Battery sold separately.

\*\* QXX requires a Process Communnication Module to communicate wirelessly, sold separately.

### IQV Battery Platform

All QX Series IQV20 tools are compatible with both the BL2022 (5Ah) and BL2012\* (2.5Ah) batteries. The BL2022 is optimum for longer use applications while the BL2012\* is ideal for tighter spaces and reduced weight.



**BL2012**

20 V - 2.5 Ah  
CCN:47515903001

**BL2022**

20 V - 5 Ah  
CCN:47515902001

**BC1121-EU** Charger , CCN: 475078740



### Purchasing options

Kit - 2x BL2022 Batteries, Tool, Charger, Bag

### Accessories

Reaction bars plate, 90 degree, with sliding slave square - weld ring - nose extension

Hard case

\*BL2012 battery sold separately.

## Superior Communication and Control.

Ingersoll Rand doesn't just give you unprecedented technology, we give you total control of that technology. With up to eight programmable configurations per tool, the QX™ Series Torque Multiplier allows operators to transition seamlessly between different bolting applications. You'll be able to use bolting strategies individually, or combined in one strategy depending on what works best for you.

### Common Bolting Strategies

#### Torque



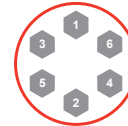
Achieve desired torque within high and low limits

#### Angle



Achieve target rotation within high and low limits

#### Gang Count



Counts all rundowns to ensure all bolts have been fastened

**+** If additional control is needed, Ingersoll Rand's ICS software gives you even more options to adapt to the most complicated bolting applications.

### Advanced Communication Options for Process Control and Real-Time Monitoring



### Process Communication Module (PCM) Features

<b>Power Cord</b>	BC10-CORD-EU	IC-PCM-2-EU	IC-PCM-2-EU
<b>Configuration</b>		10 to 1	1 to 1
<b>Tool Connections</b>	Wireless tool connections	10	1
<b>Software</b>	ICS Connect software	•	•
<b>Power Supply</b>	230V AC input, 5V DC output	•	•
<b>Communication</b>	Ethernet to ICS	•	•
<b>Fieldbus Options</b>	Ethernet/IP, DeviceNet, Interbus-S, Profibus, Modbus-TCP		•
<b>Protocols</b>	Open Protocol, Ethernet EOR, Serial EOR		•
<b>Printers/Devices</b>	Serial RS232, bar code, label printing		•
<b>I/O</b>	8 inputs/8 outputs, with behavior assignable through ICS software, operates at 24V DC		•
<b>I/O Power Supply</b>	230V AC input, 24V DC output		•
<b>Indicators</b>	Power ON, System Ready, Wireless Activity, Ethernet Activity	•	•
<b>Ambient Operating Conditions</b>	0-50°C, 20/90% non-condensing humidity	•	•
<b>Enclosure</b>	IP52 mounted in upright vertical position	•	•
<b>System Weight</b>	1.4 kg	•	•
<b>Overall Dimensions</b>	291 mm x 103 mm x 210 mm	•	•

## Adaptable to Your Application.



From pipeline flange bolts to truck frame assembly, the QX™ Series Cordless Torque Multiplier has the range, accuracy and configurations to tackle your bolting needs. Sharing the same IQV™ Series power platform with our industrial cordless and QX Series assembly tools, the Torque Multiplier expands our broad range of cordless bolting solutions.

### Oil and Gas



- Flanges
- Heat Exchanges
- High Pressure Valves

### Infrastructure



- Bridges
- Road Ways
- Steel Structures

### Heavy Equipment



- Excavators
- Diesel and Gas Engines
- Construction/Truck

### Wind



- Foundation Bolts
- Gearboxes
- General Maintenance

### Rail



- Rail Car Maintenance
- Locomotive Assembly
- Infrastructure Installation/ Maintenance

### Power Gen



- Turbines
- Valves Connections and Flanges
- Generators

# Pneumatic Drilling

## Large Drills HHH

Super-duty classification

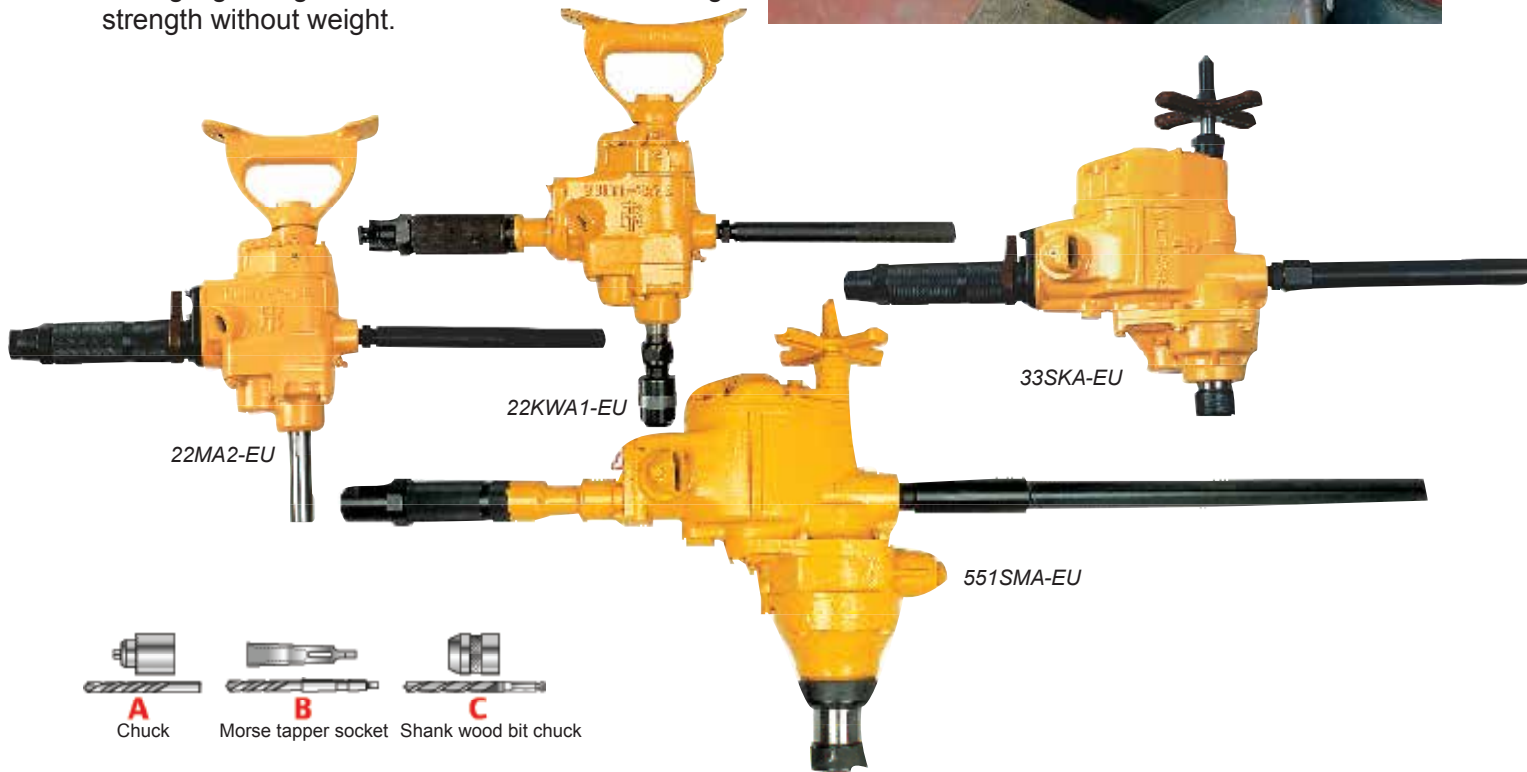
These heavy duty drills are ideal for opening and closing large valves, or drilling large diameter holes between 14 mm - 76 mm.

### 22 Series:

- Ball bearing support for long life and efficient operation.
- Durable spur gearing.
- Governed motor regulates air to the motor to keep drill working at the peak of its power curve.
- Selection of speeds to match all applications.

### 33, 44 and 551 Series:

- Graduated roll throttle for excellent speed control.
- Ball bearing support for long life and efficient operation.
- Strong, lightweight heat-treated aluminum housing for strength without weight.



### Technical Specifications at 6.2 bar (90 psi) dynamic pressure at inlet

Model No.	CPN	kW	Rpm	type	mm	mm	mm	kg.	H mm	in(NPT)	in	L/s	m/s <sup>2</sup> / K <sup>(1)</sup>
<b>Large Drills</b>													
<b>22KA1-EU</b>	01341809	1.30	725	A	14	11	11	7.0	448	3/8"	13	26	< 2.5
<b>22KWA1-EU</b>	01340108	1.30	725	C 1/2" <sup>(2)</sup>	14	-	-	6.5	438	3/8"	13	26	< 2.5
<b>22MA2-EU</b>	01338292	1.30	350	B No. 2	22	16	16	6.5	473	3/8"	13	26	< 2.5
<b>33SKA-EU</b>	01338623	2.20	300	B No. 3	32	25	28	11.7	355	1/2"	19	40	< 2.5
<b>33SMA-EU</b>	01339449	2.20	185	B No. 3	32	32	41	14.1	427	1/2"	19	40	< 2.5
<b>44SMA-EU</b>	01338953	2.68	155	B No. 4	51	51	51	19.8	463	1/2"	19	48	< 2.5
<b>551SMA-EU</b>	01340959	4.66	120	B No. 5	76	64	64	31.3	556	1"	25	75	< 2.5

(1) ISO28927 – 3-axis measurement: vibration level / measurement uncertainty.

(2) 1/2" stub taper, threaded.

# Pneumatic Grinding - Selection Chart

## Wheel Types and Collets

### STRAIGHT GRINDERS

G Series

M Series



PRO Series

### ANGLE GRINDERS

G Series

MAX Series

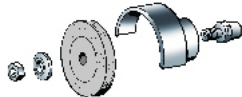
M Series



PRO Series

#### Type 1 wheels

Page 38



Ø 3" (75mm)  
Ø 4" (100 mm)



3/8"-24

Page 41



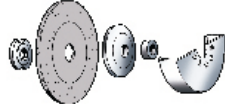
Ø 3" (75mm)  
Ø 4" (100 mm)  
Ø 6" (150mm)  
Ø 8" (200 mm)



3/8"-24  
1/2"-13  
5/8"-11

#### Type 27 and 28 depressed centre flat wheels

Page 38

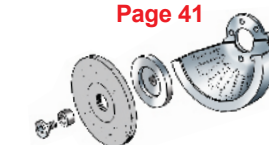


Ø 3" (75mm)  
Ø 4.5" (115mm)  
Ø 5" (125mm)  
Ø 6" (150mm)



5/8"-24  
M14

Page 41



Ø 7" (180mm)  
Ø 9" (230 mm)



5/8"-11

### VERTICAL GRINDERS

### CONE AND PLUG WHEEL GRINDERS

PRO Series



### COLLET TYPE GRINDERS

MAX Series

G Series

M Series



PRO Series



PRO Series



Grinding & Finishing

#### Type 16, 17, 18, 18R, and 19 cone and plug wheels

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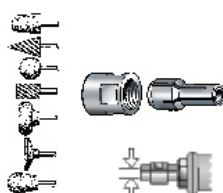
Ø 1.25" (32mm)  
Ø 3" (75 mm)



3/8"-24  
Ø 5/8"-11

#### Mounted wheels and high speed steel or carbide burrs

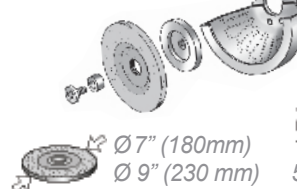
Pages 35, 37 & 40



Ø 6 mm  
Ø 1/4"  
Ø 8 mm  
Ø 3/8"

#### Type 27 and 28 depressed centre flat wheels

Page 42



Ø 7" (180mm)  
Ø 9" (230 mm)



5/8"-11

#### Type 6 and 11 cup wheels

Page 42



Ø 6" (150mm)



5/8"-11

# Pneumatic Grinding & Finishing

## VT series Turbine Grinders **HHH**

Super-duty classification



Turbine motor, 4.5 kW

**VT45A085SP95-180mm**

**VT45A066SP98-230mm**

These product have been design for tough industrial environment where grinding plays a key role (forge and foundries, shipyards, metal fabricators).

Those pneumatic grinders are often used intensively in the production zone. Power is key. The turbine technology allows the tools to be powerful while being light for the operator:

This "turbine" engine technology double the power of standard/ traditional "vane" engine pneumatic grinders for half the Weight.

Grinds and cuts more material faster than conventional "vane" grinders. This leads to better productivity and overall lower air consumption

These grinders are designed to perform best on heavy duty-industrial applications. The robust construction of these tools assure an extended longevity – even when used in 24/7 operations.

Powerful motor delivers 4,5 kW

8500 or 6 600 rpm free speed.

Internal governor maximizes speed under load, increasing your rate of material removal.

Anti-vibration side Handle and optimized 7° ergonomic handle shape ("banana" shape)

Multi directional pivotable side handle for better ergonomics (turn the handle, don't twist your hand). Can be fixed on the right or left side of the tool

Short length, height, width (better access to tight spots, better ergonomics)

Integrated spindle lock for "tool-less" abrasive disc exchange

Modular design and quick oil change concept for easy serviceability and less down time. Oil change can be done without disassembling the tool, no additional service tools required.

Easy reset of Automatic over speed shut off switch by trained user or service center



Turbine motor, 2.6 kW

**VT26A120SP95-125mm**

**VT26A120SP98-180mm**

These product have been design for tough industrial environment where grinding plays a key role (forge and foundries, shipyards, metal fabricators).

Those pneumatic grinders are often used intensively in the production zone. Power is key. The turbine technology allows the tools to be powerful while being light for the operator:

This "turbine" engine technology double the power of standard/ traditional "vane" engine pneumatic grinders for half the Weight.

Grinds and cuts more material faster than conventional "vane" grinders. This leads to better productivity and overall lower air consumption

These grinders are designed to perform best on heavy duty-industrial applications. The robust construction of these tools assure an extended longevity – even when used in 24/7 operations.

Powerful motor delivers 2,6 kW

12 000 or 8500 rpm free speed.

Internal governor maximizes speed under load, increasing your rate of material removal.

Anti-vibration side Handle and optimized 7° ergonomic handle shape ("banana" shape)

180° pivotable main handle grip for better ergonomics (turn the handle, don't twist your hand)












Multi directional pivotable side handle for better ergonomics (turn the handle, don't twist your hand). Can be fixed on the right or left side of the tool

Short length, height, width (better access to tight spots, better ergonomics)

Integrated spindle lock for "tool-less" abrasive disc exchange

Modular design and quick oil change concept for easy serviceability and less down time.

### Technical Specifications at 6.2 bar (90 psi) dynamic pressure at inlet

Model No.	Smart CPN	kW	 rpm	 mm	 mm	 mm	 kg	 mm	 in	 mm	 L/s	 dB(A)	 m/s <sup>2</sup> / K <sup>(1)</sup>
<b>Turbine Grinders</b>													
<b>VT26A120SP955</b>	<b>VT26A120SP955</b>	2.60	12 000	–	125	M14	2.20	299	1/2" BSP	13	37.5	86.0	3.7 <sup>(2)</sup>
<b>VT26A085SP98</b>	<b>VT26A085SP98</b>	2.60	8500	–	180	M14	2.80	313	1/2" BSP	13	37.5	86.0	3.7 <sup>(2)</sup>
<b>VT45A085SP995</b>	<b>VT45A085SP995</b>	4.50	8500	–	180	M14	4.00	324	1/2" BSP	19	55.0	84.0	<2.5
<b>VT45A066SP995</b>	<b>VT45A066SP995</b>	4.50	6600	–	230	M14	4.30	324	1/2" BSP	19	55.0	84.0	<2.5

(1) Sound pressure without pipe away exhaust (up to 6 dB(A) less with piped away exhaust).

(2) ISO28927 – 3-axis measurement: vibration

# Pneumatic Grinding & Finishing

## G and M Series Grinders/Sanders **HHH** Super-duty classification

From the compact 0.3 kW (0.4 hp) G1 Series to the powerful 1.0 kW (1.35 hp) G3 Series, these grinders are made for any grinding, cutting, and material removal needs.

Engineered and built with Ingersoll Rand reliability and durability, the G and M Series has the features operators want most.



### G1 Series:

For light material removal, cleaning rough castings and welds, deburring parts.

- 0.3 kW (0.4 hp) motor.
- Easily interchangeable front/rear exhaust.
- Piped-away exhaust as standard.

**NEW**

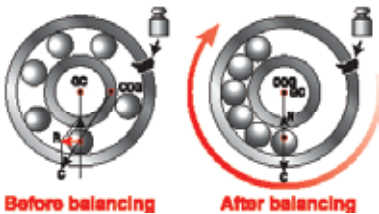


### M2 Series:

For heavier-duty applications in grinding, cutting, cleaning, and polishing.

- Powerful 0.75 kW (1 hp) lube-free air motor.
- Internal motor governor maintains grinder speed and manages air flow for efficient energy use
- Spindle lock on angle models, allows faster, easier accessory changes.
- Piped-away exhaust as standard.

Auto balancing system on G3 Series



### G3 Series:

For heavy material removal with burrs, grinding wheels, and coated abrasives. Internal contamination-free air controller helps maintain tool speed regardless of the load.

- High torque 1 kW (1.35 hp) air motor.
- Internal motor governor maximizes speed under load, increasing your rate of material removal.
- Auto balancing system and anti-vibration dead handle on G3 "AV" models significantly reduces vibrations and increases life of grinding wheels.
- Piped-away exhaust as standard.

## G and M Series Angle Die Grinders **HHH** Super-duty classification

 Erickson Collet












G1A200PG4M



M2A180RG4

Technical Specifications at 6.2 bar (90 psi) dynamic pressure at inlet

Model No.	CPN	kW	 rpm	 mm	 kg	 mm	 in (NPT)	 mm	 L/s	 dB(A) <sup>(1)</sup>	 m/s <sup>2</sup> / K <sup>(2)</sup>
<b>Angle Die Grinders</b>											
G1A200PG4M	80155211	0.30	20 000	6 mm	0.50	152	1/4"	8	11.8	80.6	5.6 / 1.1
M2A120RG4	48421648	0.75	12 000	6 mm+ 1/4"	1.62	227	3/8"	10	19.8	87.1	< 2.5
M2A180RG4	48421697		18 000	6 mm+ 1/4"	1.62	227	3/8"	10	19.8	88.8	3.1 / 1.0
G3A120PG4M	80177462	1.00	12 000	6 mm	1.90	241	3/8"	13	26.0	84.7	5.5 / 0.9
G1A120PG4M	80155187	0.30	12 000	6 mm	0.50	152	1/4"	10	8.96	79.6	3.4 / 0.9

(1) Sound pressure without pipe away exhaust (up to 6 dB(A) less with piped away exhaust).

(2) ISO28927 – 3-axis measurement: vibration

Grinding & Finishing

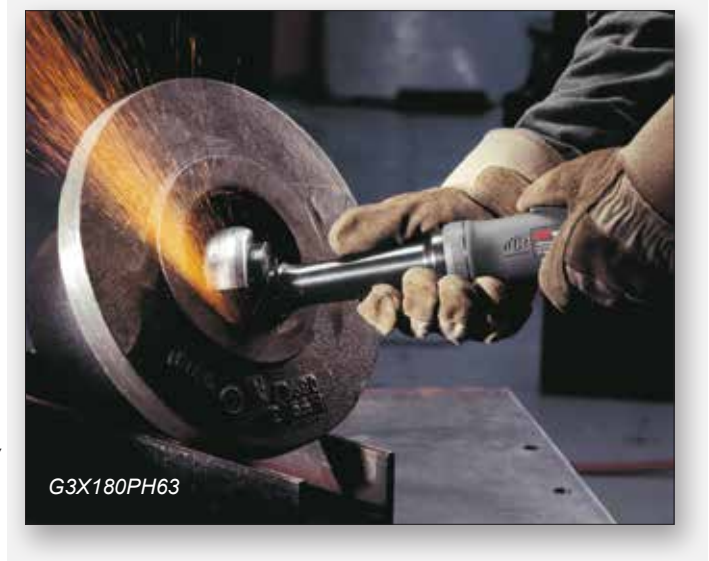
# Pneumatic Grinding & Finishing

## G and M Series Grinders

**HHH** Super-duty classification



Type 27 and 28 wheels



Type 1 wheel

### Technical Specifications at 6.2 bar (90 psi) dynamic pressure at inlet

Model No.	CPN	kW	rpm	mm	mm	kg	mm	in (NPT)	mm	L/s	dB(A) <sup>(1)</sup>	m/s <sup>2</sup> / K <sup>(2)</sup>
<b>Angle Grinders</b>												
<b>G1A200PP63</b>	80155419	0.30	20 000	75	3/8"-24	0.59	152	1/4"	8	11.8	79.9	16.8 / 6.2
<b>3445MAX-M</b>	45664240	0.6	12000	115	M14	1.53	245	1/4"	10	19.3	79.6	6.4 / 2.0
<b>345MAX-M</b>	45664257	0.6	12000	125	M14	1.56	245	1/4"	10	19.3	79.6	7.9 / 0.7
<b>M2A090RP95</b>	48421622		9 000	125	M14	1.62	236	3/8"	10	19.8	87.7	4.6 / 1.6
<b>M2A120RP945</b>	48391981	0.75	12 000	115	M14	1.71	236	3/8"	10	19.8	87.0	5.1 / 1.5
<b>M2A120RP95</b>	48421606		12 000	125	M14	1.77	236	3/8"	10	19.8	87.0	5.0 / 0.9
<b>G3L086PP95<sup>(3)</sup></b>	80232408		8 600	125	M14	2.32	330	3/8"	13	26.0	84.0	5.0 / 1.6
<b>G3A100PP96AV</b>	80217052	1.0	10 000	150	M14	2.32	245	3/8"	13	26.0	86.1	4.8 / 1.9
<b>G3A120PP945AV</b>	80217037		12 000	115	M14	2.18	245	3/8"	13	15.6	88.7	4.8 / 1.5
<b>G3A120PP95AV</b>	80217045		12 000	125	M14	2.09	245	3/8"	13	26.0	88.7	5.0 / 1.9
<b>Straight Grinders</b>												
<b>G1H250PH63</b>	80155443	0.30	25 000	75	3/8"-24	0.57	156	1/4"	8	9.4	81.1	10.7 / 3.3
<b>M2X180RH63</b>	48421580	0.75	18 000	75	3/8"-24	1.48	339	3/8"	10	19.8	85.3	< 2.5
<b>G3X150PH64</b>	80155799	1.0	15 000	100	3/8"-24	2.04	359	3/8"	13	15.6	84.5	2.5 / 0.8
<b>G3X180PH63</b>	80155781		18 000	75	3/8"-24	2.04	359	3/8"	13	26.0	88.8	2.8 / 0.9



# Pneumatic Grinding & Finishing










## G and M Series Straight Die Grinders

**HHH** Super-duty classification

 Erickson Collet



### Technical Specifications at 6.2 bar (90 psi) dynamic pressure at inlet

Model No.	CPN	kW	 rpm	 mm	 kg	 mm	 in (NPT)	 mm	 L/s	 dB(A) <sup>(1)</sup>	 m/s <sup>2</sup> / K <sup>(2)</sup>
<b>Straight Die Grinders</b>											
<b>G1H200PG4M</b>	80155245	0.30	20 000	6mm	0.41	156	1/4"	8	9.0	78.5	2.9 / 1.7
<b>G1H250PG4M</b>	80155286		25 000	6mm	0.41	156	1/4"	8	9.4	79.2	2.5 / 1.4
<b>G1H350PG4M</b>	80155310		35 000	6mm	0.41	156	1/4"	8	11.8	81.1	< 2.5
<b>M2H180RG4</b>	48421580	0.75	18 000	6mm+ 1/4"	0.77	213	3/8"	10	19.8	84.7	4.2 / 1.6
<b>M2H200RG4</b>	48421572		20 000	6mm+ 1/4"	0.77	213	3/8"	10	19.8	84.9	4.4 / 1.1
<b>M2H250RG4</b>	48393003		25 000	6mm+ 1/4"	0.77	213	3/8"	10	19.8	88.2	< 2.5
<b>G3H150PG4M</b>	80224231	1.00	15 000	6mm	1.05	230	3/8"	13	15.6	83.5	3.7 / 2.6
<b>G3H180PG4M</b>	80223787		18 000	6mm	1.05	230	3/8"	13	26.0	83.5	< 2.5
<b>Straight Extended Die Grinders</b>											
<b>G1X200PG4M</b>	80155336	0.30	20 000	6 mm	0.59	232	1/4"	8	11.8	77.9	< 2.5
<b>G1X250PG4M</b>	80155351		25 000	6 mm	0.59	232	1/4"	8	11.8	80.0	< 2.5
<b>G1X350PG4M</b>	80155377		35 000	6 mm	0.59	232	1/4"	8	11.8	81.9	< 2.5
<b>M2X075RG4</b>	48405294	0.75	7 500	6mm+ 1/4"	1.35	304	3/8"	10	19.8	88.0	< 2.5
<b>M2X180RG4</b>	48418396		18 000	6mm+ 1/4"	1.22	332	3/8"	10	19.8	88.8	2.8 / 0.9
<b>M2X200RG4</b>	48421655		20 000	6mm+ 1/4"	1.22	332	3/8"	10	19.8	84.9	< 2.5
<b>M2X250RG4</b>	48421663		25 000	6mm+ 1/4"	1.22	332	3/8"	10	19.8	88.2	< 2.5
<b>G3X150PG4M</b>	80155765	1.00	15 000	6 mm	1.70	359	3/8"	13	15.6	87.9	3.6 / 0.8
<b>G3X180PG4M</b>	50155732		18 000	6 mm	1.70	359	3/8"	13	26.0	86.4	< 2.5

(1) Sound pressure without pipe away exhaust (up to 6 dB(A) less with piped away exhaust).

(2) ISO28927 – 3-axis measurement: vibration level / measurement uncertainty.

### Erickson Collets for G1Series

Model No.	CPN	Size
<b>DG110-700-G2</b>	03641743	1/8"
<b>DG110-700-6MM</b>	04261053	6 mm
<b>DG110-700-G4</b>	03641602	1/4"

### Erickson Collets for M2 and G3 Series

Model No.	CPN	Size
<b>G160HD-700-6MM</b>	04261061	6 mm
<b>G160HD-700-1/4</b>	03493962	1/4"
<b>DG121HD-700-M8</b>	03641321	8 mm
<b>DG120HD-700-G6</b>	03641313	3/8"

Grinding & Finishing

# Pneumatic Grinding & Finishing

## G and M Series Sanders

**HHH** Super-duty classification



### Sanding Pads for G and M Series

Model No	CPN	Description	Size
02A-MEDPD	80199177	For G1 Series	Ø 50 mm (2")
03A-MEDPD	80198963		Ø 75 mm (3")
77A-AM825-5	03675477	For M2 and G3 Series (medium)	Ø 125 mm (5")
77A-AM825-7	03675469		Ø 180 mm (7")
77A-AM825-9	03675451	For M2 and G3 Series (firm)	Ø 230 mm (9")

### Technical Specifications at 6.2 bar (90 psi) dynamic pressure at inlet

Model No.	CPN	kW	rpm	mm	kg	mm	in (NPT)	mm	L/s	dB(A) <sup>(1)</sup>	m/s <sup>2</sup> / K <sup>(2)</sup>	
<b>Sanders</b>												
G1A120PS4	80155468	0.30	12 000	Option	1/4"-20	0.50	1/4"	8	9.0	80.6	3.0 / 1.0	
G1A200PS4	80155534		20 000		1/4"-20	0.50	152	1/4"	8	11.8	82.4	< 2.5
M2L025RS9	48421788	0.75	2 500	(see table)	M14	1.90	3/8"	10	19.8	87.0	4.0 / 1.4	
M2L040RS9	48421796		4 000		M14	1.90	318	3/8"	10	19.8	88.8	2.8 / 1.8
M2L055RS9	48421812		5 500		M14	1.90	318	3/8"	10	19.8	88.8	3.7 / 1.1
G3L086PS10	80223803	1.0	8 600		5/8"-11	1.93	3/8"	13	15.6	82.0	< 2.5	

(1) Sound pressure without pipe away exhaust (up to 6 dB(A) less with piped away exhaust).  
 (2) ISO28927 – 3-axis measurement: vibration level / measurement uncertainty.

## G Series Belt Sanders



### Technical Specifications at 6.2 bar (90 psi) dynamic pressure at inlet

Model No.	CPN	kW	rpm	mm	kg	mm	in (NPT)	mm	L/s	dB(A) <sup>(1)</sup>	m/s <sup>2</sup> / K <sup>(2)</sup>
<b>Belt Sanders</b>											
G1A120PS418	80155484	0.30	12 000	457 x 6.35	0.54	356	1/4"	8	9.0	82.4	< 2.5
G1A120PS812	80155500		12 000	305 x 12.7	0.54	273	1/4"	8	9.0	82.4	< 2.5
G1A200PS812	80155559		20 000	305 x 12.7	0.54	273	1/4"	8	11.8	83.6	2.6 / 0.7

(1) Sound pressure without pipe away exhaust (up to 6 dB(A) less with piped away exhaust).  
 (2) ISO28927 – 3-axis measurement: vibration level / measurement uncertainty.



### Sanding Belts 3/8"-24 female thread

Model No.	CPN	Dimensions	Grit
LG1-SB812-60-10	04025649	12.7 x 305 mm (1/2" x 12")	60
LG1-SB812-80-10	04025656		80
LG1-SB812-100-10	04025664		100
LG1-SB418-60-10	04279832	6.35 x 457 mm (1/4" x 18")	60
LG1-SB418-80-10	04279840		80
LG1-SB418-100-10	04279857		100

# Pneumatic Grinding & Finishing

## Pro Series Grinders / Sanders

**HHH** Super-duty classification

Pro Series grinders incorporate a patented motor controller which is designed to increase productivity while enhancing operator safety. Adjustable side handles, an ergonomic main handle, and self-locking throttle all help to reduce operator fatigue.

**Reliability:**

- Solid steel motor and arbor housing provide maximum durability.
- Built-in mist lubricator automatically oils motor when throttle is activated.

**Efficiency:**

- Heavy-duty, double-row ball bearings assure long life and smooth operation.
- Auto balancing system on angle and vertical models – reduces vibration and increases abrasives lifetime.



**Auto balancing system on Pro-Series angle and vertical models**

Before balancing      After balancing

**Pro-Series motor controller prevents over-speeding and manages air flow for efficient energy use**

## Pro-Series Straight Grinders / Collet

**HHH** Super-duty classification

Erickson Collet



Technical Specifications at 6.2 bar (90 psi) dynamic pressure at inlet

Model No.	CPN	kW	rpm	mm	kg	mm	in (NPT)	mm	L/s	dB(A)	m/s <sup>2</sup> / K <sup>(1)</sup>
<b>Straight Grinders - Erickson Collet</b>											
<b>61H150G4-EU</b>	01339316	1.00	15 000	6mm	1.9	394	3/8"	13	18.9	89.8	< 2.5
<b>61H120G4-EU</b>	01338391	0.93	12 000	6mm	1.9	394	3/8"	13	17.5	86.6	< 2.5

(1) ISO28927 – 3-axis measurement: vibration level / measurement uncertainty.

**Erickson Collets for 61H Series**



Model No.	CPN	Size
<b>G160HD-700-6MM</b>	04261061	6 mm
<b>G160HD-700-1/4</b>	03493962	1/4"
<b>DG121HD-700-M8</b>	03641321	8 mm
<b>DG120HD-700-G6</b>	03641313	3/8"

Grinding & Finishing

# Pneumatic Grinding & Finishing

## Pro-Series Vertical Grinders

# HHH

Super-duty classification



Type 27 and 28 wheels



Type 6 and 11 wheels



88V60P107M-EU













99V60P109M-EU



99V60S106M-EU

### Technical Specifications at 6.2 bar (90 psi) dynamic pressure at inlet

Model No.	CPN	kW	 rpm	 mm	 mm	 kg	 mm	 in (NPT)	 mm	 L/s	 dB(A)	 m/s <sup>2</sup> / K(1)
<b>Vertical Grinders – Type 27 and 28 Wheels</b>												
88V60P107M-EU	01337948	1.56	6 000	180	5/8"-11	4.0	154	1/2"	19	28.8	89.2	3.1 / 0.9
88V85P107M-EU	01337658	1.64	8 500	180	5/8"-11	4.0	154	1/2"	19	31.2	86.9	4.1 / 1.3
99V60P107M-EU	01338425	2.25	6 000	180	5/8"-11	5.1	174	1/2"	19	39.7	84.4	2.8 / 0.9
88V60P109M-EU	01337716	1.56	6 000	230	5/8"-11	4.2	154	1/2"	19	28.8	89.2	3.6 / 1.1
99V60P109M-EU	01337575	2.25	6 000	230	5/8"-11	5.1	174	1/2"	19	39.7	85.5	3.4 / 1.1
<b>Vertical Grinders – Type 6 and 11 Cup Wheels</b>												
88V60S106M-EU	01340058	1.56	6 000	150	5/8"-11	3.8	154	1/2"	19	28.8	89.2	< 2.5
99V60S106M-EU	01339068	2.25	6 000	150	5/8"-11	4.8	174	1/2"	19	39.7	85.4	< 2.5

(1) ISO28927 – 3-axis measurement: vibration level / measurement uncertainty.



88V60-K184

### Accessories

Model No.	CPN	Description
88V60-K184	03643962	Piped-away exhaust system for 88V models
99V60-K184	03625589	Piped-away exhaust system for 99V models

# Pneumatic Grinding & Finishing

## Pro-Series Angle Grinders

# HHH

Super-duty classification



Type 27 and 28 wheels



77A60P107M-EU

Technical Specifications at 6.2 bar (90 psi) dynamic pressure at inlet

Model No.	CPN	kW	rpm	mm	mm	kg	mm	in (NPT)	mm	L/s	dB(A)	m/s <sup>2</sup> / K <sup>(1)</sup>
<b>Angle Grinders</b>												
77A60P107M-EU	01338300	1.12	6 000	180	5/8"-11	4.1	447	3/8"	13	18.4	85.9	< 2.5
77A75P107M-EU	01338771	1.12	7 500	180	5/8"-11	4.2	447	3/8"	13	18.4	85.9	2.6 / 0.8
77A60P109M-EU	01338201	1.12	6 000	230	5/8"-11	4.2	447	3/8"	13	18.4	104.7	2.4 / 0.8

(1) ISO28927 – 3-axis measurement: vibration level / measurement uncertainty.

## Pro-Series Straight Grinders



Type 1 wheel



Type 16, 17, 18, 18R and 19 wheels

# HHH

Super-duty classification



99HL45H108-EU



61H120H63-EU



61H120L6-EU



77H90L10-EU

Technical Specifications at 6.2 bar (90 psi) dynamic pressure at inlet

Model No.	CPN	kW	rpm	mm	mm	kg	mm	in (NPT)	mm	L/s	dB(A)	m/s <sup>2</sup> / K <sup>(1)</sup>
<b>Straight Grinders – Type 1 Wheels</b>												
61H120H63-EU	01339290	0.93	12 000	75	3/8"-24	2.16	400	3/8"	13	18.9	86.6	<2.5
61H150H63	01238567	1.00	15 000	75	3/8"-24	2.16	400	3/8"	13	17.5	86.4	<2.5
77H120H84-EU	01339308	1.12	12 000	100	1/2"-13	2.95	438	3/8"	13	18.4	85.4	2.8 / 1.2
88HL60H106-EU	01339407	1.50	6 000	150	5/8"-11	5.14	508	1/2"	19	28.8	79.4	< 2.5
99HL60H106-EU	01339373	2.25	6 000	150	5/8"-11	6.14	521	1/2"	19	39.7	85.8	< 2.5
<b>Straight Grinders – Type 16, 17 18, 18R and 19 Wheels</b>												
61H120L6-EU	01340454	0.93	12 000	—	3/8"-24	1.93	375	3/8"	13	17.5	86.6	< 2.5
61H150L6-EU	01340561	1.00	15 000	—	3/8"-24	1.93	375	3/8"	13	18.9	89.8	< 2.5
77H90L10-EU	01339118	1.12	9 000	—	5/8"-11	2.73	418	3/8"	13	17.5	80.9	< 2.5
77H120L10-EU	01340280	1.12	12 000	—	5/8"-11	2.73	418	3/8"	13	18.4	85.4	4.2 / 3.5

(1) ISO28927 – 3-axis measurement: vibration level / measurement uncertainty.

# Pneumatic Grinding & Finishing

## Pro-Series Sanders and Polishers

**HHH** Super-duty classification



77H30B106-EU



77A60W107-EU



7S60L-EU



88S60W107-EU

### Technical Specifications at 6.2 bar (90 psi) dynamic pressure at inlet

Model No.	CPN	kW	rpm	mm	mm	kg	mm	mm	in (NPT)	mm	L/s	dB(A)	m/s <sup>2</sup> / K <sup>(1)</sup>
<b>Straight Sanders</b>													
77H30B106-EU	01339670	1.12	3 000	150	5/8"-11	3.32	449	—	3/8"	13	17.5	85.2	5.9 / 2.1
77H50B106-EU	01340397	1.12	5 000	150	5/8"-11	3.32	449	—	3/8"	13	18.4	94.4	7.8 / 2.7
<b>Angle Sanders</b>													
77A25F107-EU	01340835	1.12	2 500	180	5/8"-11	3.81	446	—	3/8"	13	17.5	89.2	< 2.5
77A60W107-EU	01340165	1.12	6 000	180	5/8"-11	3.55	446	—	3/8"	13	18.4	85.9	< 2.5
77A45W109-EU	01339720	1.12	4 500	230	5/8"-11	3.55	446	—	3/8"	13	17.5	83.3	< 2.5
<b>Vertical Sanders</b>													
7P24L-EU	01339712	0.6	2 400	180	5/8"-11	1.47	—	162	1/4"	10	10.4	82.7	< 2.5
7S48L-EU	01340348	0.6	4 800	180	5/8"-11	1.47	—	162	1/4"	10	10.4	81.4	< 2.5
7S60L-EU	01338318	0.6	6 000	180	5/8"-11	1.47	—	162	1/4"	10	10.4	82.0	< 2.5
88S60W107-EU	01338037	1.50	6 000	180	5/8"-11	3.24	—	152	1/2"	19	28.8	80.2	< 2.5
88S45W109-EU	01339126	1.35	4 500	230	5/8"-11	3.24	—	152	1/2"	19	23.6	77.6	< 2.5

(1) ISO28927 – 3-axis measurement: vibration level / measurement uncertainty.

### Sanding Pads

Model No.	CPN	Description	Size
77A-AM825-5	03675477	Medium sanding pad (for all models)	Ø 125 mm (5")
77A-AM825-7	03675469		Ø 180 mm (7")
77A-AM825-9	03675451	Firm sanding pad (for all models)	Ø 230 mm (9")
P500-850	03379542	Wool polishing bonnet (for 7 and 77 models)	Ø 180 mm (7")



77A-AM825-5



77A-AM825-9



P500-850

# Pneumatic Grinding & Finishing

## Special Grinders / Sanders



### Pencil Grinders **HH** *Heavy-duty classification*

Excellent for intricate grinding applications, including mold finishing.

- Comfortable design enables precise control.
- Delivered with 1/8" collet insert, 6 mm air hose (length 1.80 m) and 0.45 m rear exhaust over-hose.
- DG600G2-EU- CPN 04562179



### Accessories

Model No	CPN	Description
47568-2	04136164	Collet Ø 3 mm
47568-3	04136172	Collet Ø 3/32"

## Engraving Pen

### HH *Heavy-duty classification*

Ingersoll Rand engraving pen is designed to meet your industrial engraving needs. Variable zoom throttle permits a wide range of engraving possibilities from hard alloys to brittle ceramics.

- Moulded carrying case with EP50 engraving pen, air hose and 3 assorted styli (fine, medium and coarse point).
- Knurled zoom throttle – Variable speed.



### Accessories

Model No.	CPN	Description
EP50-514	03800760	Stylus grinding collet
EP50-515	03800778	Fine point stylus (black)
EP50-516	03800786	Medium point stylus (grey)
EP50-517	03800794	Coarse point stylus (green)

## Multi-tools **HHH** *Heavy-duty classification*

Compact and versatile tools for high precision work.

- Usable with carbide burr, grinding disc or sanding belt.
- 360° rotative head on PBA model.
- POLA15000 delivered with collet (without pad).



### Rubber pad for self-adhesive discs

Model No.	CPN	Description
117155	04373478	Ø 20 mm
116920	04373486	Rubber pad for self-adhesive discs, Ø 30 mm
116930	04373494	Ø 46 mm
116940	04371464	Ø 76 mm)
002300	04373031	Grit 36
002301	04373049	Grit 40
002302	04373056	475 x 15 mm sanding belts (pack of 10 belts)
002303	04373064	Grit 50
002304	04373072	Grit 60
002305	04373080	Grit 80
002305	04373080	Grit 100
122629	04363503	6 mm collet

### Technical Specifications at 6.2 bar (90 psi) dynamic pressure at inlet

Model No.	CPN	kW	rpm	mm	mm	kg	mm	in	mm	L/s	dB(A)	m/s <sup>2</sup> / K <sup>(1)</sup>	
EP50K-EU	01339506	—	—	18 750	—	—	0.14	137	1/8" NPT	6	—	75.5	—
POLA15000	04368379	0.22	15 000	—	6 mm	—	0.65	—	1/4" BSP	10	6.5	NA	NA
PBA416	04368387	0.22	14 800	—	—	475 x 15	1.05	—	1/4" BSP	10	6.6	NA	NA

(1) ISO28927 – 3-axis measurement: vibration level / measurement uncertainty.

# Pneumatic Percussive Tools

## WA and SA Series Chippers

**HHH** Super-duty classification

Renowned for its valve life and handle durability, this classic tool is widely used throughout industry. It is ideal for light demolition work, metal removal, form stripping, and many other applications.

- Swan neck handle with outside trigger.
- Time tested valve durability.
- Replaceable piston.
- Long nozzle for extra life.
- Grooved barrel, lock spring retainer on SA Series. Threaded barrel and rubber buffered retainer for increased steel and retainer life on WA-Series.



### SA Series

Plain arrow retainer



1A2 SA-EU



### WA Series

Rubber buffered retainer



3A1SA-EU



W2 A1-EU



W3A1-EU



### Technical Specifications at 6.2 bar (90 psi) dynamic pressure at inlet

Model No.	CPN		mm <sup>(1)</sup>	mm	mm	kg	mm	NPTF	mm	L/s	dB(A)	m/s <sup>2</sup> / K <sup>(2)</sup>
<b>SA series / Plain Arrow Retainer</b>												
<b>1A2SA-EU</b>	01341015	2 500	17 ○	25	29	6.70	394	3/8"	13	13.2	109.9	18.1 / 5.4
<b>2A2SA-EU</b>	01339860	2 300	17 ○	51	29	6.88	406	3/8"	13	13.2	109.8	18.0 / 5.4
<b>3A2SA-EU</b>	01342914	1 725	17 ○	76	29	7.56	454	3/8"	13	13.7	112.2	17.7 / 5.3
<b>4A2SA-EU</b>	01341882	1 480	17 ○	102	29	7.95	480	3/8"	13	13.7	112.9	18.9 / 6.2
<b>1A1SA-EU</b>	01340447	2 500	15 ◻	25	29	6.70	394	3/8"	13	13.2	109.9	18.1 / 5.4
<b>2A1SA-EU</b>	01339951	2 300	15 ◻	51	29	6.88	406	3/8"	13	13.2	109.8	18.0 / 5.4
<b>3A1SA-EU</b>	01340884	1 725	15 ◻	76	29	7.56	454	3/8"	13	13.7	112.2	17.7 / 5.3
<b>4A1SA-EU</b>	01340488	1 480	15 ◻	102	29	7.95	480	3/8"	13	13.7	112.9	18.9 / 6.2
<b>WA Series / Rubber Buffered Retainer</b>												
<b>W1A2-EU</b>	01341643	2 500	17 ○	25	29	6.70	403	3/8"	13	13.2	109.9	17.5 / 5.8
<b>W2A2-EU</b>	01340207	2 300	17 ○	51	29	6.88	416	3/8"	13	13.2	109.8	17.3 / 5.7
<b>W3A2-EU</b>	01340827	1 725	17 ○	76	29	7.56	464	3/8"	13	13.7	112.2	13.7 / 4.5
<b>W4A2-EU</b>	01341106	1 480	17 ○	102	29	7.95	489	3/8"	13	13.7	112.9	18.5 / 5.9
<b>W1A1-EU</b>	01339399	2 500	15 ◻	25	29	6.70	403	3/8"	13	13.2	109.9	17.5 / 5.8
<b>W2A1-EU</b>	01338649	2 300	15 ◻	51	29	6.88	416	3/8"	13	13.2	109.8	17.3 / 5.7
<b>W3A1-EU</b>	01340389	1 725	15 ◻	76	29	7.56	464	3/8"	13	13.7	112.2	13.7 / 4.5
<b>W4A1-EU</b>	01340215	1 480	15 ◻	102	29	7.95	489	3/8"	13	13.7	112.9	18.5 / 5.9

(1) ○ = Round shank — ◻ = Hexagonal shank.

(2) ISO28927 – 3-axis measurement: vibration level / measurement uncertainty.

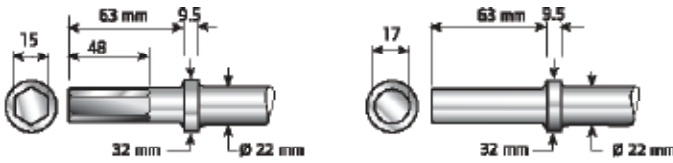


# Pneumatic Percussive Tools

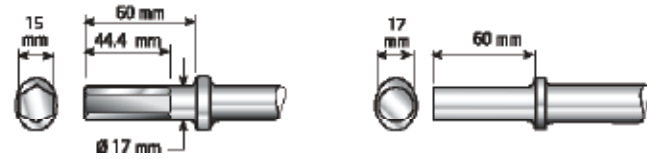
## Chisels for W and SA Series chippers



## Round collar for rubber buffered retainer (for W Series)



## Oval collar for plain arrow retainer (for SA Series)



Model No.	CPN	Length (mm)	Weight (kg)
<b>Round Shank</b>			
A H3R-215F-12	03225661	305	0.8
A H3R-215F-18	03225687	455	1.1
A H3R-215F-24	03225703	610	1.3
A H3R-215F-36	03225729	915	2.4
B H3R-215B-12	03225745	305	0.8
C H3R-215M-12	03225596	305	0.8
C H3R-215M-18	92731769	455	1.1
C H3R-215M-24	56748650	610	1.3
<b>Hexagonal Shank</b>			
A H3R-214F-12	03225133	305	0.8
A H3R-214F-18	03225158	455	1.1
A H3R-214F-24	03225174	610	1.3
A H3R-214F-36	03225190	915	2.4
B H3R-214B-12	03225364	305	0.8
C H3R-214M-12	03225059	305	0.8
C H3R-214M-18	03225083	455	1.1
C H3R-214M-24	03225109	610	1.3
C H3R-214M-36	03225125	915	2.4

Model No.	CPN	Length (mm)	Weight (kg)
<b>Round Shank</b>			
A HH1-215F-12	03487923	305	0.8
A HH1-215F-18	03487931	455	1.1
A HH1-215F-24	03487949	610	1.3
A HH1-215F-36	03487956	915	2.4
B HH1-215B-12	91137075	305	0.8
C HH1-215M-12	91137034	305	0.8
C HH1-215M-18	03487972	455	1.1
C HH1-215M-24	03487980	610	1.3
<b>Hexagonal Shank</b>			
A HH1-214F-12	03221983	305	0.8
A HH1-214F-18	03487477	455	1.1
A HH1-214F-24	03487485	610	1.3
A HH1-214F-36	03487493	915	2.4
B HH1-214B-12	91137281	305	0.8
C HH1-214M-12	03222064	305	0.8
C HH1-214M-18	03487501	455	1.1
C HH1-214M-24	03487519	610	1.3
C HH1-214M-36	03487527	915	2.4

# Pneumatic Percussive Tools

## AVC-Series Impact Riveters **HHH** Heavy-duty classification

Ingersoll Rand lightweight riveters are time-tested performers for industrial riveting, hammering and cutting applications.

- Accurate and easily controlled tease throttle.
- Standard beehive retainer - allows use of wide variety of accessories.
- Built-in power regulators on A1 and B1 Models - the operator can change power on the job with no downtime.
- Available in straight, pistol, and gooseneck handles.



AVC10A1-EU



AVC12A1-EU



AVC13A1-EU

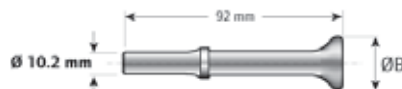
### Technical Specifications at 6.2 bar (90 psi) dynamic pressure at inlet

Model No.	CPN	Min	mm	mm	Aluminum mm	Dural & soft iron (mm)	kg	mm	NPTF	mm	L/s	dB(A)	m/s <sup>2</sup> / K <sup>(1)</sup>
<b>Straight Handle</b>													
AVC10C1-EU	01341858	3 200	10.2	48	3	3	0.94	172	1/4"	8	5.7	92.0	13.3 / 1.9
<b>Pistol Grip Handle</b>													
AVC10A1-EU	01338995	3 200	10.2	48	3	3	1.28	152	1/4"	8	5.7	92.0	13.3 / 1.9
AVC12A1-EU	01338722	2 100	10.2	76	5	5	1.53	197	1/4"	8	6.0	91.1	8.0 / 1.8
AVC13A1-EU	01338078	1 725	10.2	101	6	6	1.67	222	1/4"	8	6.0	94.2	8.0 / 1.8
AVC26A1-EU	01339142	1 120	12.7	152	10	8	2.30	287	1/4"	13	6.6	92.6	8.0 / 1.8
<b>Gooseneck handle</b>													
AVC26B1-EU	01340926	1 120	12.7	152	10	8	3.20	354	1/4"	13	6.6	92.6	8.0 / 1.8



Brazier head jackset

Model No.	CPN	mm
AV1-22C-4	91136622	3 mm
AV1-22C-5	91136630	4 mm
AV1-22C-6	91136648	5 mm
AV1-22C-8	91136655	6 mm
AV1-22C-10	91136663	8 mm

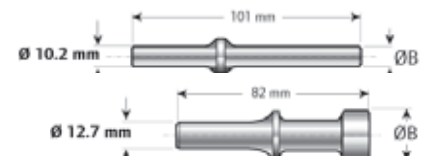


Flush head jackset

Model No.	CPN	Ø B (mm)
AV1-126D	03218534	25

Beehive (safety) spring retainers

Model No.	CPN	Compatible tools
AVC1-83	03010659	All except AVC26
AVC24-283	03012010	AVC26



Jackset diaphragm

Model No.	CPN	Shank Ø (mm)	Ø B (mm)
AV1-22S-16	03218062	10.2	13
AV1-22S-20	03218070	10.2	16
AV1-22S-24	03218088	10.2	19
AV1-22S-28	03218096	10.2	22
AV24-	03218724	12.7	21
AV24-	03218732	12.7	30

# Pneumatic Percussive Tools

## 172/182-Series Scalars

# HHH

Super-duty classification

These scalars provide you with the means to aggressively prepare a surface for the next steps in an industrial surface preparation application. Whether its paint removal from the deck of a ship to rust removal from bridge girders, these tools get the job done quickly and efficiently.

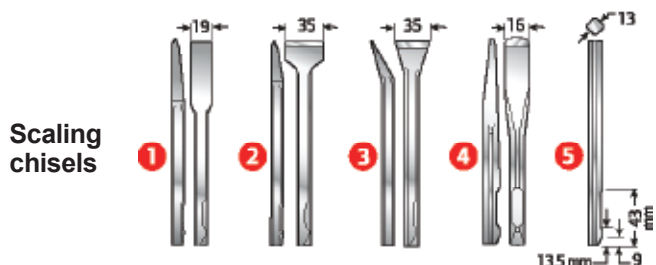
- Proven designs and materials to ensure the toughest tools.
- Long nozzle sections extend retainer life and strengthened head blocks stand up to the hardest use.



### Technical Specifications at 6.2 bar (90 psi) dynamic pressure at inlet

Model No.	CPN	Min	mm	mm	kg	mm	NPTF	mm	L/s	dB(A)	m/s <sup>2</sup> / K <sup>(1)</sup>
<b>Chisel and Needle Scalars</b>											
<b>172L-EU</b>	01337823	5 500	14	24	1.69	194	1/4"	8	5.7	107.5	11.6 / 2.6
<b>172LNA1-EU</b>	01337724	5 500	14	24	2.38	349	1/4"	8	5.7	107.5	12.5 / 1.8
<b>182L-EU</b>	01337625	4 000	27	24	1.84	229	1/4"	8	6.1	107.2	12.7 / 2.0
<b>182G-EU</b>	01339605	4 000	27	24	2.41	325	1/4"	8	6.1	107.2	8.5 / 1.2
<b>182LNA1-EU</b>	01337617	4 000	27	24	2.61	381	1/4"	8	6.1	107.2	10.1 / 1.7
<b>182K1-EU</b>	01337955	4 000	27	24	1.84/2.61	229/381	1/4"	8	6.1	107.2	12.7 / 2.0

(1) ISO28927 – 3-axis measurement: vibration level / measurement uncertainty.



	Model No.	CPN	Length (mm)
1	WF-14F-7	03223948	178
1	WF-14F-12	92745629	305
2	WF-14B6 1/8	91136259	156
2	WF-14B-11 1/2	03223914	292
3	WF-14A-6 1/8	91136283	156
4	WF-14G-6	03223955	152
5	WF-14-7 1/8	03223872	181

### Replacement needles (sets of 19 needles)

Model No.	CPN	Material	Needle length (mm)
<b>NS11-22-19</b>	03676335	Steel	127
<b>NS11-B22-19</b>	03676350	Beryllium copper	127
<b>NS11-S22-19</b>	03676343	Stainless steel	127
<b>NS11-122-19</b>	03676368	Steel	178

### Attachment for conversion of models 172L and 182L

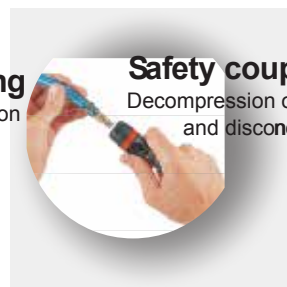


Model No.	CPN	Opening type	Needle length (mm)
<b>NS11A</b>	03468360	Round	127
<b>NS11A7</b>	03468394	Round	178
<b>NS11B7</b>	03468436	Rectangular	178

Percussive Tools

# Airline & Additional Accessories

## Quick Release Couplings & Nipples



		Nipples BSP		Standard couplings		Safety couplings		Safety couplings		
		Part no.	CPN	Part no.	CPN	Part no.	CPN	Part no.	CPN	
<b>Ø 7.2 - 7.4 mm</b>				Max: 16 bar - 25 L/s <sup>(1)</sup>		Max: 16 bar - 25 L/s <sup>(1)</sup>		Max: 12 bar - 30 L/s <sup>(1)</sup>		
	Male thread	1/4" BSP	77NMC2	88104070	7N7CCMC2	25010505	7S7CCMC2	25010398	7S7CMC2	88104187
		3/8" BSP	77NMC3	88104088	7N7CCMC3	25010513	7S7CCMC3	25010406	7S7CMC3	88104195
		1/2" BSP	77NMC4	88104096	7N7CCMC4	25010521	7S7CCMC4	25010414	7S7CMC4	88104203
	Female thread	1/4" BSP	77NFC2	88104047	7N7CCFC2	25010471	7S7CCFC2	25010364	7S7CFC2	88104153
		3/8" BSP	77NFC3	88104054	7N7CCFC3	25010489	7S7CCFC3	25010372	7S7CFC3	88104161
		1/2" BSP	77NFC4	88104062	7N7CCFC4	25010497	7S7CCFC4	25010380	7S7CFC4	88104179
	For hose	Ø 6 mm	77NH06	88104104	7N7CCH06	25010539	7S7CCH06	25010422	7S7CH06	88104211
		Ø 8 mm	77NH08	88104112	7N7CCH08	25010547	7S7CCH08	25010430	7S7CH08	88104229
		Ø 10 mm	77NH10	88104138	7N7CCH10	25010562	7S7CCH10	25010455	7S7CH10	88104245
		Ø 13 mm	77NH13	88104146	7N7CCH13	25010570	7S7CCH13	25010463	7S7CH13	88104252



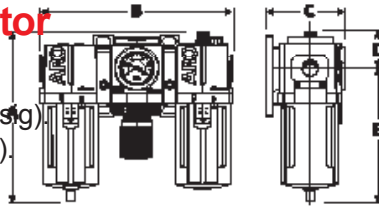
		Nipples BSP		Standard couplings		Safety couplings		Safety couplings		
		Part no.	CPN	Part no.	CPN	Part no.	CPN	Part no.	CPN	
<b>Ø 6 mm (1/8")</b>				Max: 12 bar - 13 L/s <sup>(1)</sup>		Max: 16 bar - 15 L/s <sup>(1)</sup>		Max: 12 bar - 13 L/s <sup>(1)</sup>		
	Male thread	1/4" BSP	IB6NMC2	88103015	IBN6CMC2	88103197	IBS6CCMC2	25010075	IBS6CMC2	88103098
		3/8" BSP	IB6NMC3	88103023	IBN6CMC3	88103205	IBS6CCMC3	25010083	IBS6CMC3	88103106
		1/2" BSP	-	-	IBN6CMC4	88103213	IBS6CCMC4	25010091	IBS6CMC4	88103114
	Female thread	1/4" BSP	IB6NFC2	88102991	IBN6CFC2	88103163	IBS6CCFC2	25010042	IBS6CFC2	88103064
		3/8" BSP	IB6NFC3	88103007	IBN6CFC3	88103171	IBS6CCFC3	25010059	IBS6CFC3	88103072
		1/2" BSP	-	-	IBN6CFC4	88103189	IBS6CCFC4	25010067	IBS6CFC4	88103080
	For hose	Ø 6 mm	IB6NH06	88103031	IBN6CH06	88103221	-	-	IBS6CH06	88103122
		Ø 8 mm	IB6NH08	88103049	IBN6CH08	88103239	IBS6CCH08	25010117	IBS6CH08	88103130
		Ø 10 mm	IB6NH10	88103056	IBN6CH10	88103247	IBS6CCH10	25010125	IBS6CH10	88103148
<b>Ø 8 mm (3/8")</b>				Max: 12 bar - 33 L/s <sup>(1)</sup>		Max: 16 bar - 30 L/s <sup>(1)</sup>		Max: 12 bar - 33 L/s <sup>(1)</sup>		
	Male thread	1/4" BSP	IB8NMC2	88103296	IBN8CMC2	88104567	-	-	IBS8CMC2	88103395
		3/8" BSP	IB8NMC3	88103304	IBN8CMC3	88104575	IBS8CCMC3	25010158	IBS8CMC3	88103403
		1/2" BSP	IB8NMC4	88103312	IBN8CMC4	88104583	IBS8CCMC4	25010166	IBS8CMC4	88103411
	Female thread	1/4" BSP	IB8NFC2	88103262	IBN8CFC2	88104534	-	-	IBS8CFC2	88103361
		3/8" BSP	IB8NFC3	88103270	IBN8CFC3	88104542	IBS8CCFC3	25010133	IBS8CFC3	88103379
		1/2" BSP	IB8NFC4	88103288	IBN8CFC4	88104559	IBS8CCFC4	25010141	IBS8CFC4	88103387
	For hose	Ø 8 mm	IB8NH08	88103320	-	-	IBS8CCH08	25010174	IBS8CH08	88103429
		Ø 10 mm	IB8NH10	88103338	IBN8CH10	88104609	IBS8CCH10	25010182	IBS8CH10	88103437
		Ø 13 mm	IB8NH13	88103346	IBN8CH13	88104617	IBS8CCH13	25010190	IBS8CH13	88103445
<b>Ø 11 mm (1/2")</b>						Max: 16 bar - 70 L/s <sup>(1)</sup>				
	Male thread	3/8" BSP	IB11NMC3	25014028	-	-	IBS11CCMC3	25013939	-	-
		1/2" BSP	IB11NMC4	25014036	-	-	IBS11CCMC4	25013947	-	-
		3/4" BSP	-	-	-	-	IBS11CCMC6	25013954	-	-
	Female thread	3/8" BSP	IB11NFC3	25014002	-	-	IBS11CCFC3	25013905	-	-
		1/2" BSP	IB11NFC4	25014010	-	-	IBS11CCFC4	25013913	-	-
		3/4" BSP	-	-	-	-	IBS11CCFC6	25013921	-	-
	For hose	10 mm	IB11NH10	25014044	-	-	IBS11CCH10	25013962	-	-
		13 mm	IB11NH13	25014051	-	-	IBS11CCH13	25013970	-	-
		16 mm	IB11NH16	25014069	-	-	IBS11CCH16	25013988	-	-
		19 mm	IB11NH19	25014077	-	-	IBS11CCH19	25013996	-	-

# Airline & Additional Accessories

## ARO-Flo Series

### Filter + Regulator + Lubricator

- Operating temperature: -5 to +79 °C.
- Maximum inlet pressure: 17.2 bar (250 psig)
- Pressure gauge: 0 to 9.7 bar (0-140 psig).
- 5 micron filter element.

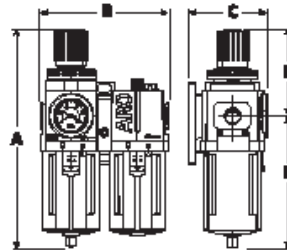


Model No.	CPN	BSP	L/s (1)	Bowl material / drain type mm	5µ filter element CPN
C381B1-821	15302961	1/4"	21.7	Metal / Automatic	15299183
C382C1-811	15315633	3/8"	40.0	Metal / Automatic	15299662
C383D1-811	15304108	1/2"	70.8	Metal / Automatic	15299407
C383E1-811	15304181	3/4"	80.7	Metal / Automatic	15299407
C384F1-811	15317639	1"	101.5	Metal / Automatic	15299878

Dimensions	A mm	B mm	C mm	D mm	E mm
C381B1-821	149	120	80	42	107
C382C1-811	199	168	84	45	154
C383D1-811	216	221	90	43	173
C383E1-811	216	221	90	43	173
C384F1-811	292	282	109	55	237

### Filter / Regulator + Lubricator

- Operating temperature: -5 to +52 °C.
- Maximum inlet pressure: 10.3 bar (150 psig).
- Pressure gauge: 0 to 9.7 bar (0-140 psig).
- 5 micron filter element.

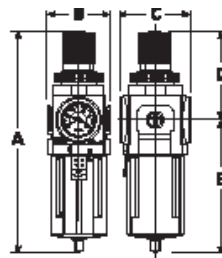


Model No.	CPN	BSP	L/s (1)	Bowl material / drain type mm	5µ filter element CPN
C381B1-600	15302896	1/4"	20.7	Polycarbonate / Manual	15299183
C382C1-600	15315567	3/8"	33.5	Polycarbonate / Manual	15299662
C383D1-600	15304033	1/2"	56.7	Polycarbonate / Manual	15299407
C383E1-600	15304116	3/4"	67.0	Polycarbonate / Manual	15299407
C384F1-610	15317605	1"	98.2	Metal / Manual	15299878

Dimensions	A mm	B mm	C mm	D mm	E mm
C381B1-600	157	80	80	67	90
C382C1-600	209	112	84	86	123
C383D1-600	252	145	90	100	152
C383E1-600	252	145	90	100	152
C384F1-610	351	186	109	133	218

### Filter / Regulator

- Operating temperature. With polycarbonate bowl: -5 to +52°C. With metal bowl: -5 to +79°C.
- Maximum operating pressure. With polycarbonate bowl: 10.3 bar (150 psig). With metal bowl: 17.2 bar (250 psig).
- Pressure gauge: 0 to 9.7 bar (0-140 psig).
- 5 micron filter element.



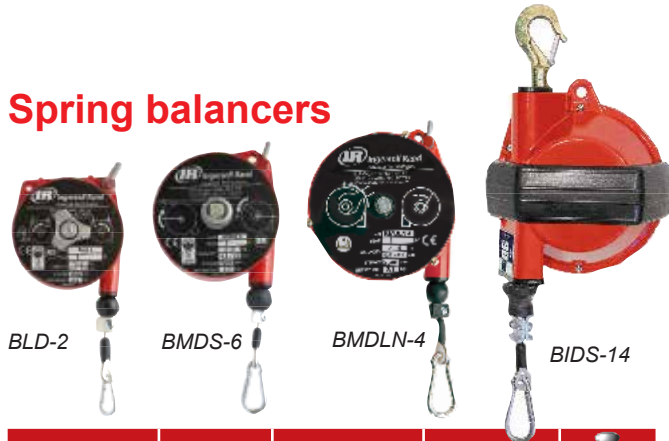
Model No.	CPN	BSP	L/s (1)	Bowl material / drain type mm	Fixing bracket CPN	5µ filter element CPN
P391B4-600	15302813	1/4"	22.1	Polycarbonate / Manual	15307416	15299183
P391B4-624	15302847	1/4"	22.1	Metal / Automatic	15307416	15299183
P392C4-600	15315260	3/8"	42.5	Polycarbonate / Manual	15307424	15299662
P392C4-614	15315294	3/8"	42.5	Metal / Automatic	15307424	15299662
P393D4-600	15305337	1/2"	79.5	Polycarbonate / Manual	15307432	15299407
P393D4-614	15305360	1/2"	79.5	Metal / Automatic	15307432	15299407
P393E4-600	15305931	3/4"	81.6	Polycarbonate / Manual	15307432	15299407
P393E4-614	15305964	3/4"	81.6	Metal / Automatic	15307432	15299407


Dimensions	A mm	B mm	C mm	D mm	E mm
P391B4-600	157	40	74	67	90
P391B4-624	175	40	74	67	108
P392C4-600	207	56	79	86	121
P392C4-614	229	56	79	86	143
P393D4-600	253	70	80	100	153
P393D4-614	276	70	80	100	176
P393E4-600	253	70	80	100	153
P393E4-614	276	70	80	100	176

(1) At 6.2 bar (90 psig)

# Airline & Additional Accessories

## Spring balancers





Model No.	CPN	Load capacity kg	Maximum stroke m	 kg
<b>BLD Series – Light-Duty</b>				
<b>BLD-1</b>	92073956	0.4 - 1.0	1.6	0.6
<b>BLD-2</b>	92073964	1.0 - 2.0	1.6	0.6
<b>BLD-3</b>	92073972	2.0 - 3.0	1.6	0.7
<b>BMD Series – Medium-Duty</b>				
<b>BMDS-2</b>	92842152	1.0 - 2.5	2.0	2.0
<b>BMDS-4</b>	92842160	2.0 - 4.0	2.0	2.0
<b>BMDS-6</b>	92842178	4.0 - 6.0	2.0	2.3
<b>BMDS-8</b>	92842186	6.0 - 8.0	2.0	2.5
<b>BMDLN-4</b>	17023730	2.0 - 4.0	2.5	2.9
<b>BMDLN-6</b>	17023748	4.0 - 6.0	2.5	3.2
<b>BMDLN-8</b>	17023755	6.0 - 8.0	2.5	3.5
<b>BMDLN-10</b>	17023763	8.0 - 10	2.5	3.7
<b>BMDLN-12</b>	17023771	10.0 - 14	2.5	4.0
<b>BMDLLN-4<sup>(1)</sup></b>	17023789	2.0 - 4.0	2.5	3.0
<b>BMDLLN-6<sup>(1)</sup></b>	17023797	4.0 - 6.0	2.5	3.3
<b>BMDLLN-8<sup>(1)</sup></b>	17023805	6.0 - 8.0	2.5	3.6
<b>BMDLLN-10<sup>(1)</sup></b>	17023813	8.0 - 10	2.5	3.8
<b>BIDS Series – Intermediate-Duty</b>				
<b>BIDS-7</b>	25015967	4.0 - 7.0	2.0	5.0
<b>BIDS-10</b>	25015975	7.0 - 10	2.0	5.5
<b>BIDS-14</b>	25015983	10 - 14	2.0	5.5
<b>BIDS-18</b>	25015991	14 - 18	2.0	6.5
<b>BIDS-22</b>	25016007	18 - 22	2.0	6.0
<b>BIDS-26</b>	25016015	22 - 25	2.0	6.6
<b>BHD Series – Heavy-Duty</b>				
<b>BHD-15</b>	92841956	10 - 15	2.0	10.3
<b>BHD-20</b>	92841964	15 - 20	2.0	10.6
<b>BHD-25</b>	92841972	20 - 25	2.0	11.2
<b>BHD-30</b>	92841980	25 - 30	2.0	11.5
<b>BHD-35</b>	92841998	30 - 35	2.0	11.8
<b>BHD-45</b>	92842004	35 - 45	2.0	12.4
<b>BHD-55</b>	92842012	45 - 55	2.0	12.5
<b>BHD-65</b>	92842020	55 - 65	2.0	13.6

(1) Locking type balancer: sharp pull on the v will lock it in position allowing attached load to be manipulated freely – without weight compensation.



## Hose Reel Balancers

Model No.	CPN	Load capacity kg	Maximum stroke m		 kg
<b>BHR-8</b>	92073923	0.4 - 0.8	1.3	1/4"	1.5
<b>BHR-15</b>	92073931	0.7 - 1.5	1.3	1/4"	1.5
<b>BHR-25</b>	92073949	1.2 - 2.5	1.3	1/4"	1.5



## Grease and Oil

Model No.	CPN	No.	Recommended use	Capacity
<b>Grease</b>				
<b>67-4T</b>	04637336	67	For angle head tools	0.12 L (tube)
<b>67-1 LB</b>	03773009			0.45 kg
<b>105-4T-6</b>	04618930	105	with metal housing	6 tubes of 0.12 L
<b>105-1LB</b>	04279147			0.45 kg
<b>105-8LB</b>	04264875			3.60 kg



## Lubricant Kits

Part No.	CPN	Compatible tools
<b>67-LBK1</b>	04637344	For angle head tools
<b>105-LBK1</b>	04616090	For Impacttools with metal housing
<b>115-LBK1</b>	04616108	For Impacttools with composite housing
<b>VT22-SK1<sup>(1)</sup></b>	17028549	Lubricant kit (250 ml of oil + syringe)

(1) Contains: grease 80 g, oil 0.12 L and grease pump.  
 (2) Note: VT22-T24 spindle lock key is required for oil change.



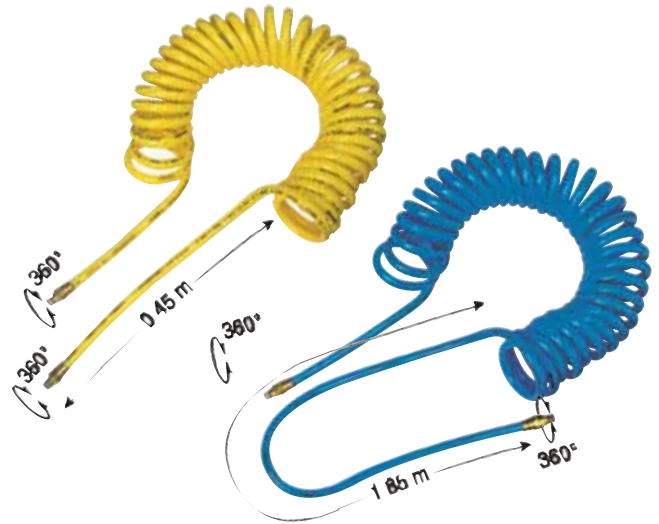
## Grease Guns

Part No.	CPN	Description
<b>P25-228</b>	03026978	For hydraulic-type fittings
	03095015	For flush-type fittings
<b>GTH-1</b>	04616124	For Ingersoll Rand 0.12 l tube of grease

# Airline & Additional Accessories

## Polyurethane Recoil Hoses

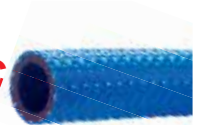
- Operating temperature: -40 to +38 °C.
- Operating pressure: 8 bar (115 psi) at 24 °C.



Part No.	CPN	mm	NPT	m	m	m
<b>Yellow Hose</b>						
34102	92833375	6	1/4"	3	2.5	0.15
34202	92833383	6	1/4"	6	5	0.31
34302	92833391	6	1/4"	9	8	0.43
35102	92833409	8	1/4"	3	2.5	0.14
35202	92832526	8	1/4"	6	5	0.30
35302	92833417	8	1/4"	9	8	0.46
IR36103	92835172	9.5	1/4"	3	2.5	0.15
IR36203	92835180	9.5	1/4"	6	5	0.34
IR36303	92835198	9.5	1/4"	9	8	0.52
IR36102	92835149	9.5	3/8"	3	2.5	0.15
IR36202	92835156	9.5	3/8"	6	5	0.34
IR36302	92835164	9.5	3/8"	9	8	0.52
IR37102	92835206	13	1/2"	3	2.5	0.16
IR37202	92835214	13	1/2"	6	5	0.38
<b>Blue Hose</b>						
IR36713	88098991	9.5	3/8"	6	5	0.34
IR36715	88099015	9.5	3/8"	9	7.5	0.52

## PVC Round Hose, 30 m C

- Safety factor 4:1.



Part No.	CPN	mm	mm	Max. operating pressure at 20°C
RH-6	92545730	6 mm	11 mm	18 bar
RH-8	92536036	8 mm	13 mm	15 bar
RH-10	92536044	10 mm	14 mm	13 bar
RH-12	92536051	13 mm	17 mm	11 bar
RH-16	92536069	16 mm	21 mm	11 bar
RH-19	92536077	19 mm	24 mm	11 bar

## Hose Whips



Part No.	CPN	NPT	mm
33104	91486340	1/4" NPT	300 mm
33204	91486357	3/8" NPT	300 mm
33304	91488205	1/2" NPT	300 mm

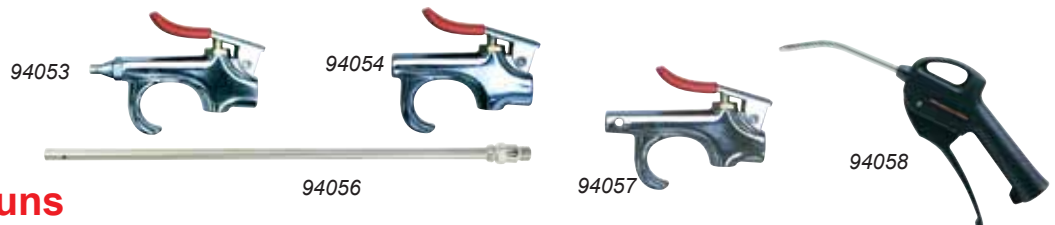
## Hose clamps



Part No.	CPN	mm	Quantity
CO-0911	56753080	Ø 9 - 11 mm	100
CO-1113	56753098	Ø 11 - 13 mm	100
CO-1315	56753106	Ø 13 - 15 mm	100
CO-1518	56753122	Ø 15 - 18 mm	100
CO-1821	56753148	Ø 18 - 21 mm	100
CO-2225	56753163	Ø 22 - 25 mm	100

## Safety Blow Guns

- OSHA compliant with outlet pressure reduced to 2 bar for increased operator safety.



Part No.	CPN	Max. air pressure	Description	mm
94053	91487520	6-7 bar	Brass air screen tip produces conical air stream around direct centre air stream	1/4" BSP
94054	91488775	6-7 bar	For use with blow pipes only	1/4" BSP
94057	91489732	6-7 bar	Tamper-proof vent holes increase total air flow	1/4" BSP
94058	25011222	10 bar	Composite material. Built-in blow pipe	1/4" BSP

(1) Blow pipe, 150 mm long, part no. 94055 (CPN: 91488783) – Blow pipe, 450 mm long, part no. 94056 (CPN: 91488791).



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