



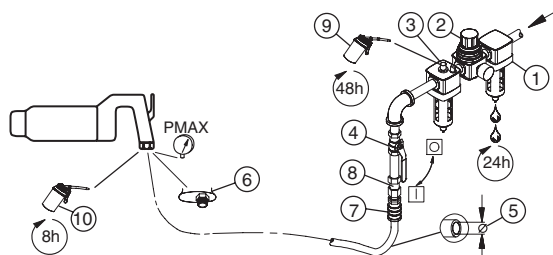
Air Percussive Chipping Hammer "A" Series and "W" Series

Product Information

EN Product Information	SL Specifikacije izdelka
ES Especificaciones del producto	SK Špecifikácie produktu
FR Spécifications du produit	CS Specifikace výrobku
IT Specifiche prodotto	ET Toote spetsifikatsioon
DE Technische Produktdaten	HU A termék jellemzői
NL Productspecificaties	LT Gaminio techniniai duomenys
DA Produktspecifikationer	LV Ierices specifikācijas
SV Produktspecifikationer	PL Informacje o Produkcie
NO Produktspesifikasjoner	BG Информация за Продукта
FI Tuote-erittely	RO Informații Privind Produsul
PT Especificações do Produto	RU Технические характеристики изделия
EL Προδιαγραφές προϊόντος	ZH 产品信息
	HR Podaci o proizvodu



Save These Instructions



(Dwg. 16576183)

①②③		⑤	⑥	⑨	⑨	
I-R # - NPT	I-R # - BS	inch (mm)	NPT	I-R #	I-R #	cm ³
C18-03-FKG0-28	C28-C3-FKG0	1/2 (13)	7/8"-24 or 3/8"	10	10	3

Product Safety Information

Intended Use:

These Air Percussive Chipping Hammers are designed for chipping, cutting, chiseling and breaking of hardened materials through repetitive application of linear impacts of a tool steel that is retained and driven by the chipper.

For additional information refer to **Product Safety Information Manual Form 04581450**.

Manuals can be downloaded from ingersollrandproducts.com

Accessory Installation

WARNING

- Always use appropriate retainer, latch or sleeve, in addition to proper barriers to protect persons in surrounding or lower areas from possible ejected accessories.
- Always turn off the air supply, bleed the air pressure and disconnect the air supply hose when not in use, before installing, removing or adjusting any accessory on this tool, or before performing any maintenance on this tool or any accessory.
- For Plain-Type Retainer No. HH1-1190:

To remove chisel: Remove Lock Spring from the Retainer groove. Remove Retainer from Barrel. Raise chisel until the shank collar clears the Retainer's alignment grooves. Rotate the chisel 90° and remove it.

To install chisel: Insert the chisel shank into the front of the Retainer until it can turn 90°, allowing the collar to drop and rest on the retainer shoulder. Attach the Retainer to the Barrel by aligning the Retainer slot with the barrel groove. Insert the Lock Spring through the Retainer slot and push it around the Barrel and Retainer until the Retainer is secured to the Barrel.

- For Quick-Change Type Retainer No. HH1-1191:

To remove chisel: It is not necessary to remove the Retainer from the Barrel. While lifting the Flat Spring and Pin, rotate the chisel 90° and remove it.

To install chisel: Insert chisel shank into the Retainer until it stops against the Barrel. Rotate the chisel 90° until you see and feel the Flat Spring and Pin snap into position to secure the chisel.

- For Rubber Buffered Type Retainer No. HHW1-300 (for use with threaded barrel):

Grasp the Retainer and unscrew it from the Barrel against the pressure of the Retainer Lock Spring. Remove the buffer and the chisel from the rear of the Retainer. The Buffer will split to allow the use of a wide chisel. To install a wide chisel, pass the shank of the chisel through the hole in the Retainer and by opening the split in the buffer, fit it around the chisel making sure that the shoulder of the chisel locates in the large counter bore of the buffer. Slide the assembly into place in the threaded end of the Retainer.

NOTICE

Moil point and narrow chisels can be removed and installed without removing the buffer from the Retainer.

Align the end of the chisel with the Nozzle and thread the retainer onto the Barrel. Tighten the Retainer clockwise on the Barrel until the Retainer Lock Spring can be seen or heard to locate in place in the recess in the barrel thread. Check correct engagement by trying to rotate the Retainer. If significant resistance is felt, the Retainer Lock Spring is correctly engaged. If no significant resistance is felt, rotate the Retainer until the Retainer Lock Spring engages properly.

Prior to Use

WARNING

- Do not lubricate tools with flammable or volatile liquids such as kerosene, diesel or jet fuel. Use only recommended lubricants.
- Use only proper cleaning solvents to clean parts. Use only cleaning solvents which meet current safety and health standards. Use cleaning solvents in a well ventilated area.

Tools are coated inside and out with rust-resisting oil before leaving the factory. Before using the tool, remove this oil by dipping the tool in a suitable cleaning solution to wash the oil from the exterior. Pour about 6 cm³ of a clean, suitable, cleaning solution into the air inlet and operate the tool for about 15 seconds. Dry the tool immediately after cleaning, pour 3 cm³ of **Ingersoll Rand No. 10 Oil** into the air inlet and again operate the tool for 5 seconds to lubricate all working parts.

Product Specifications

Model	Retainer Type		Shank		Blows per Minute	Stroke Length Inch (mm)	Sound Level dB (A) (ISO15744)		Vibration (ISO28927) m/s ²	
	Required	Supplied	Size Inch	Collar			† Pressure (L _p)	‡ Power (L _w)	Level	*K
1A1S	Yes	No	0.580 Hex	Oval	2,500	1 (25)	109.9	120.9	18.1	5.4
1A1SA, 1A1SA-EU	Yes	Plain	0.580 Hex	Oval	2,500	1 (25)	109.9	120.9	18.1	5.4
2A1S	Yes	No	0.580 Hex	Oval	2,300	2 (51)	109.8	120.8	18.0	5.4
2A1SA, 2A1SA-EU	Yes	Plain	0.580 Hex	Oval	2,300	2 (51)	109.8	120.8	18.0	5.4
3A1S	Yes	No	0.580 Hex	Oval	1,725	3 (76)	112.2	123.2	17.7	5.3
3A1SA, 3A1SA-EU	Yes	Plain	0.580 Hex	Oval	1,725	3 (76)	112.2	123.2	17.7	5.3
4A1S	Yes	No	0.580 Hex	Oval	1,480	4 (102)	112.9	123.9	18.9	6.2
4A1SA, 4A1SA-EU	Yes	Plain	0.580 Hex	Oval	1,480	4 (102)	112.9	123.9	18.9	6.2

Model	Retainer Type		Shank		Blows per Minute	Stroke Length	Sound Level dB (A) (ISO15744)		Vibration (ISO28927) m/s ²	
	Required	Supplied	Size Inch	Collar		Inch (mm)	† Pressure (L _p)	‡ Power (L _w)	Level	*K
1A2S	Yes	No	0.680 Round	Oval	2,500	1 (25)	109.9	120.9	18.1	5.4
1A2SA, 1A2SA-EU	Yes	Plain	0.680 Round	Oval	2,500	1 (25)	109.9	120.9	18.1	5.4
2A2S	Yes	No	0.680 Round	Oval	2,300	2 (51)	109.8	120.8	18.0	5.4
2A2SA, 2A2SA-EU	Yes	Plain	0.680 Round	Oval	2,300	2 (51)	109.8	120.8	18.0	5.4
3A2S	Yes	No	0.680 Round	Oval	1,725	3 (76)	112.2	123.2	17.7	5.3
3A2SA, 3A2SA-EU	Yes	Plain	0.680 Round	Oval	1,725	3 (76)	112.2	123.2	17.7	5.3
4A2S	Yes	No	0.680 Round	Oval	1,480	4 (102)	112.9	123.9	18.9	6.2
4A2SA, 4A2SA-EU	Yes	Plain	0.680 Round	Oval	1,480	4 (102)	112.9	123.9	18.9	6.2
W1A1, W1A1-EU	Yes	Rubber Buffered	0.580 Hex	Round	2,500	1 (25)	109.9	120.9	17.5	5.8
W2A1, W2A1-EU	Yes	Rubber Buffered	0.580 Hex	Round	2,300	2 (51)	109.8	120.8	17.3	5.7
W3A1, W3A1-EU	Yes	Rubber Buffered	0.580 Hex	Round	1,725	3 (76)	112.2	123.2	13.7	4.5
W4A1, W4A1-EU	Yes	Rubber Buffered	0.580 Hex	Round	1,480	4 (102)	112.9	123.9	18.5	5.9
W1A2, W1A2-EU	Yes	Rubber Buffered	0.680 Round	Round	2,500	1 (25)	109.9	120.9	17.5	5.8
W2A2, W2A2-EU	Yes	Rubber Buffered	0.680 Round	Round	2,300	2 (51)	109.8	120.8	17.3	5.7
W3A2, W3A2-EU	Yes	Rubber Buffered	0.680 Round	Round	1,725	3 (76)	112.2	123.2	13.7	4.5
W4A2, W4A2-EU	Yes	Rubber Buffered	0.680 Round	Round	1,480	4 (102)	112.9	123.9	18.5	5.9

† K_{PA} = 3dB measurement uncertainty

‡ K_{WA} = 3dB measurement uncertainty

*K = Vibration measurement uncertainty

WARNING

Sound and vibration values were measured in compliance with internationally recognized test standards. The exposure to the user in a specific tool application may vary from these results. Therefore, on site measurements should be used to determine the hazard level in that specific application.

Installation and Lubrication

Size air supply line to ensure tool's maximum operating pressure (PMAX) at tool inlet. Drain condensate from valve(s) at low point(s) of piping, air filter and compressor tank daily. Install a properly sized Safety Air Fuse upstream of hose and use an anti-whip device across any hose coupling without internal shut-off, to prevent hose whipping if a hose fails or coupling disconnects. See drawing 16576183 and table on page 2. Maintenance frequencies are shown in circular arrows and are defined as h=hours, d=days, and m=months. Items identified as:

- | | |
|-----------------------------|---|
| 1. Air filter | 6. Thread size |
| 2. Regulator | 7. Coupling |
| 3. Lubricator | 8. Safety Air Fuse |
| 4. Emergency shut-off valve | 9. Oil |
| 5. Hose diameter | 10. Oil - before starting, into air inlet |

Note: Before storing the tool or leaving idle exceeding 24 hours:

- Pour 3 cm³ of IR # 10 oil into air inlet and run tool for 5 seconds.

Note: If the action of the tool becomes sluggish:

- Pour 3 cm³ of cleaning solution into air inlet and run tool for 30 seconds.
- Immediately after flushing the tool, pour 3 cm³ of oil into air inlet and run tool for 30 seconds.

Parts and Maintenance

When the life of the tool has expired, it is recommended that the tool be disassembled, degreased and parts be separated by material so that they can be recycled.

Original instructions are in English. Other languages are a translation of the original instructions.

Tool repair and maintenance should only be carried out by an authorized Service Center.

Refer all communications to the nearest **Ingersoll Rand** Office or Distributor.