



*Products for the Construction Industry*





## Ingersoll Rand... On the job for more than a century

Ingersoll Rand has a unique heritage in construction that dates back to the company's founding in 1871. Simon Ingersoll invented the world's first rock drill and revolutionized productivity on the jobsite with the wide array of compressors, tools, and related products that came later. He built a business and an industry with the power and tools that helped create such wonders as Hoover Dam and Mt. Rushmore.

Today, Ingersoll Rand offers one of the most comprehensive lines of construction tools available, as well as portable air compressors that have become industry standards. As a full-line tool and equipment provider, Ingersoll Rand also offers service and maintenance tools such as Impactools™ and surface preparation tools, as well as pullers, hoists, and winches for material handling tasks. Ingersoll Rand is breaking new ground with solutions for the jobsite, backed by a solid history, proven performance, and strong customer support. Go to [irtools.com](http://irtools.com) or call an Ingersoll Rand representative at (800) 376-TOOL for complete details.

Construction Tools



# Construction Tools



Pavement Breakers	5
Spike Drivers	7
Diggers	7
Pavement Breaker and Digger Steels	8
Jackhammers and Rockdrills	9
Steels, Bits, and Retainers	9
Rivet Busters	10
Rivet Buster Steels and Retainers	10
Chipping Hammers	11
Chipping Hammer Steels and Retainers	13
Backfill Tampers and Sand Rammers	14

**Ergonomically designed** handles, grips, throttle lever, and breaker housing provide maximum operator comfort and productivity

**Internal lubricator** for continuous tool protection

**Four-bolt backhead** contoured to fit operator's leg; easily removed for routine maintenance

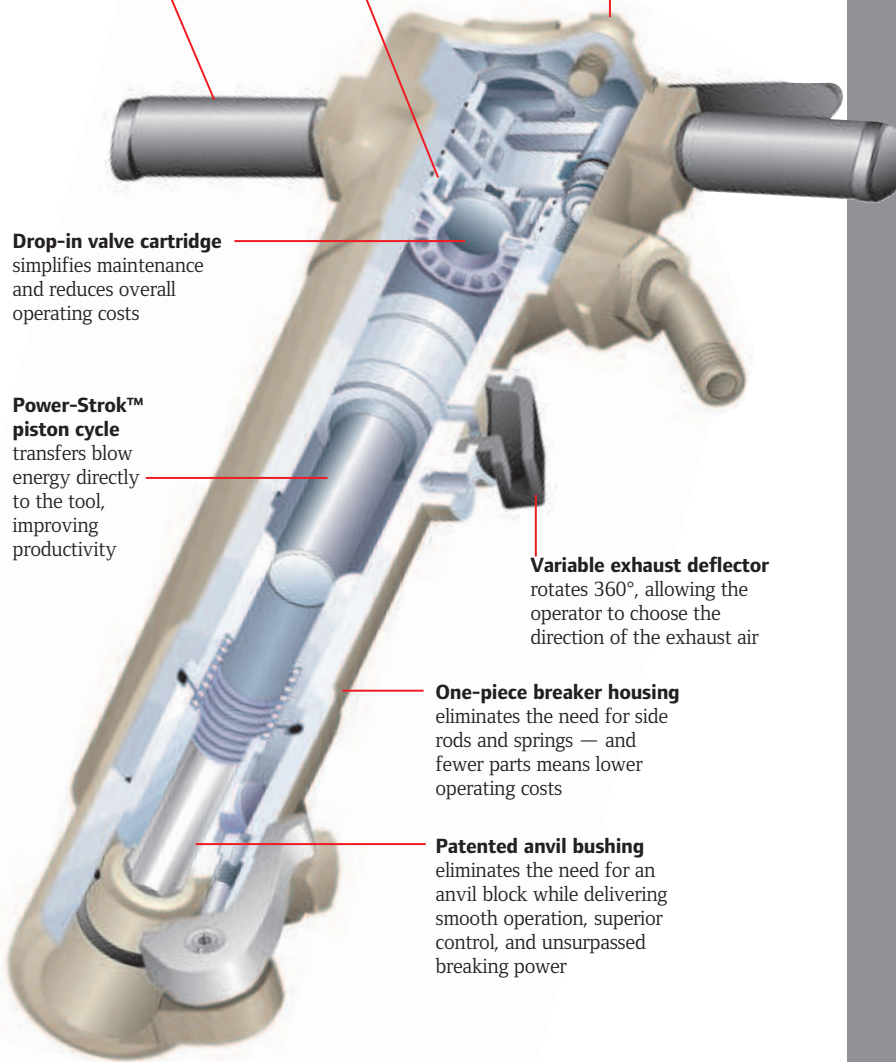
**Drop-in valve cartridge** simplifies maintenance and reduces overall operating costs

**Power-Strok™ piston cycle** transfers blow energy directly to the tool, improving productivity

**Variable exhaust deflector** rotates 360°, allowing the operator to choose the direction of the exhaust air

**One-piece breaker housing** eliminates the need for side rods and springs — and fewer parts means lower operating costs

**Patented anvil bushing** eliminates the need for an anvil block while delivering smooth operation, superior control, and unsurpassed breaking power



# 30% fewer parts

Ingersoll Rand breaker



Competitive brand breaker



## Pavement Breakers



PB35AL8



PB35AS8

### PB Series

- ▶ One-piece housing eliminates costly side rods and springs
- ▶ Power-stroke piston delivers more energy to the work surface and eliminates another costly wear item
- ▶ Built-in lubricator helps ensure adequate lubrication
- ▶ Two roll pins and removal of the housing plug on the top head make service access simple
- ▶ Muffler reduces noise (PB35AS8 and PB50AS1 only)



PB50AL1



PB50AS1

Model	Hex Shank Size	Stroke in (mm)	Bore in (mm)	Length Without Accessory in (mm)	Weight Without Accessory lb (kg)	bpm	cfm	Inlet Size NPT in	Recommended Hose Size in (mm)
<b>PAVING BREAKERS WITH MUFFLER</b>									
PB35AS8	1" x 4-1/4"	6.25" (159)	1.75" (44)	25" (625)	43 (20)	1,250	49	3/4"	3/4" (19)
PB50AS1	1-1/8" x 6"	6.25" (159)	1.75" (44)	27.5" (699)	55 (25)	1,150	58	3/4"	3/4" (19)
<b>PAVING BREAKERS WITHOUT MUFFLER</b>									
PB35AL8	1" x 4-1/4"	6.25" (159)	1.75" (44)	25" (625)	40 (18)	1,250	49	3/4"	3/4" (19)
PB50AL1	1-1/8" x 6"	6.25" (159)	1.75" (44)	27.5" (699)	52 (24)	1,150	58	3/4"	3/4" (19)

Performance figures are at 90 psi (6.2 bar) air pressure.

## MX Series

- ▶ No expensive side rods and springs
- ▶ Composite valve won't rust
- ▶ Directional exhaust eliminates blow back
- ▶ Built-in lubricator
- ▶ Hand-serviceable shank doesn't require a press to service
- ▶ Backhead conforms to operator's leg
- ▶ Optional muffler sold separately (MX90 Series only)



MX60A



MX90A

## MX Series with Flex-Handle™

- ▶ The Flex-Handle feature provides vibration dampening in a full 360° range of movement. Competitive mechanical springs only work in one direction and lose their ability to absorb vibration when fully compressed, or when hammering while pulling the breaker out of the work surface.



MX60AF



MX90AF

Model	Hex Shank Size	Stroke in (mm)	Bore in (mm)	Length Without Accessory in (mm)	Weight Without Accessory lb (kg)	bpm	cfm	Inlet Size NPT in	Recommended Hose Size in (mm)	Muffler Part Number
<b>STANDARD BREAKERS</b>										
MX60A	1-1/8" x 6"	5.75" (146)	2.06" (52.3)	27.5" (686)	76 (31.8)	1,250	70	3/4"	3/4" (19)	N/A
MX60B	1-1/4" x 6"	5.75" (146)	2.06" (52.3)	27.5" (686)	76 (31.8)	1,250	70	3/4"	3/4" (19)	N/A
MX90A	1-1/8" x 6"	5.75" (146)	2.62" (66.5)	27.5" (686)	87 (39.5)	1,250	85	3/4"	3/4" (19)	51953453
MX90B	1-1/4" x 6"	5.75" (146)	2.62" (66.5)	27.5" (686)	87 (39.5)	1,250	85	3/4"	3/4" (19)	51953453
<b>VIBRATION-REDUCED FLEX-HANDLE BREAKERS</b>										
MX60AF	1-1/8" x 6"	5.75" (146)	2.06" (52.3)	27.5" (686)	76 (31.8)	1,250	70	3/4"	3/4" (19)	N/A
MX60BF	1-1/4" x 6"	5.75" (146)	2.06" (52.3)	27.5" (686)	76 (31.8)	1,250	70	3/4"	3/4" (19)	N/A
MX90AF	1-1/8" x 6"	5.75" (146)	2.62" (66.5)	27.5" (686)	87 (39.5)	1,250	85	3/4"	3/4" (19)	51953453
MX90BF	1-1/4" x 6"	5.75" (146)	2.62" (66.5)	27.5" (686)	87 (39.5)	1,250	85	3/4"	3/4" (19)	51953453

Performance figures are at 90 psi (6.2 bar) air pressure.

## Spike Drivers

- ▶ Built-in lubricator
- ▶ No side rods or springs to wear
- ▶ Composite valve eliminates rust
- ▶ Power-stroke piston
- ▶ The fronthead guides and supports spike



Model	Stroke in (mm)	Bore in (mm)	Length Without Accessory in (mm)	Weight Without Accessory lb (kg)	bpm	cfm	Inlet Size NPT in	Recommended Hose Size in (mm)
<b>FIXED-SPIKE DRIVERS</b>								
MX60-SD	5.75" (146)	2.06" (52.3)	27.5" (686)	69 (31.4)	1,250	70	3/4"	3/4" (19)
MX90-SD	5.75" (146)	2.62" (66.5)	27.5" (686)	86 (39)	1,250	85	3/4"	3/4" (19)
<b>VIBRATION-REDUCED FLEX-HANDLE MODELS</b>								
MX60F-SD	5.75" (146)	2.06" (52.3)	27.5" (686)	69 (31.4)	1,250	70	3/4"	3/4" (19)
MX90F-SD	5.75" (146)	2.62" (66.5)	27.5" (686)	86 (39)	1,250	85	3/4"	3/4" (19)

Performance figures are at 90 psi (6.2 bar) air pressure.

## Diggers

- ▶ Multiple retainer configurations
- ▶ D-handle grip
- ▶ Extra long nozzles for long life
- ▶ Three-finger inside trigger















Model	Retainer Type	Hex Shank Size	Stroke in (mm)	Bore in (mm)	Length Without Accessory in (mm)	Weight Without Accessory lb (kg)	bpm	cfm	Inlet Size NPT in	Recommended Hose Size in (mm)
<b>93 SERIES LIGHTWEIGHT DIGGERS</b>										
93A1	Sleeve	7/8" x 3-1/4"	2.5" (64)	1.69" (43)	18.88" (479)	22 (10)	2,350	45	3/8"	1/2" (13)
93A4	Hitch	7/8" x 3-1/4"	2.5" (64)	1.69" (43)	17.88" (454)	21 (9.5)	2,350	45	3/8"	1/2" (13)
93LA1	Latch	7/8" x 3-1/4"	2.5" (64)	1.69" (43)	18.88" (479)	23 (10.4)	2,350	45	3/8"	1/2" (13)
<b>95 SERIES MEDIUM-WEIGHT DIGGERS</b>										
95A1	Sleeve	7/8" x 3-1/4"	4" (102)	1.69" (43)	21.88" (556)	27 (12.3)	1,850	47	3/8"	1/2" (13)
95LA1	Latch	7/8" x 3-1/4"	4" (102)	1.69" (43)	21.88" (556)	28 (12.7)	1,850	47	3/8"	1/2" (13)
95LA3	Latch	1" x 4-1/4"	4" (102)	1.69" (43)	21.88" (556)	30 (13.6)	1,850	47	3/8"	1/2" (13)

Performance figures are at 90 psi (6.2 bar) air pressure.



## Pavement Breaker and Digger Steels

Product	Steel Description	Under Collar		Hex Shank Size and Part Number			
		Length	Tool*	7/8" x 3-1/4"	1" x 4-1/4"	1-1/8" x 6"	1-1/4" x 6"
	Moil Points — Standard-duty <i>Used for general demolition</i>	14"	PB / D	50050269	50050368	50050475	50055680
		18"		50050277	50050376	50055524	50055698
		24"		50050285	50050392	50055540	50055714
		36"		51305860	45512563	50055565	50055730
		48"		45512621	45512571	50055573	50055748
		60"		45512639	45512589	50055581	50055755
		72"		45512647	45512597	50055599	50198993
		Moil Points — Super-duty		11-1/4" 14-1/4"	PB / D	22041495 22041602	22041057 22041065
	1" Narrow Chisels — Standard-duty <i>Used for general demolition</i>	14"	PB / D	50199207		50197805	50197904
		18"		50199215	50197821	50197912	50196401
		24"		50199223	45510245	50197938	50196419
		36"		45510682	45510252	51298107	51299477
		48"		45510690	45510260	50197979	51299485
		60"		45510708	45510278	50197987	51299048
72"		45510716		45510286	50197995	51299493	
1" Narrow Chisels — Super-duty		11-1/4" 14-1/4"		PB / D	22041503 22041610	22041115 22041123	22041131 22041149
1-1/2" Super-cut Chisel <i>Specially designed for breaking concrete</i>	16"	PB	N/A		22040463	22040471	22040489
	3" Chisels <i>Used for concrete demolition and asphalt cutting</i>	14"	PB	50195288	50195320	50114883	50193879
		18"		50195296	50195338	50193754	50193887
		24"		45510542	50195353	50193747	50193903
		36"		45510559	50195361	45510500	45510484
		48"		45510567	50195379	45510518	50193937
		60"		45510575	45510476	45510526	45510492
		72"		45510583	51304574	45510534	50191790
	3" Digging Chisel <i>Used for deeper digging and asphalt cutting</i>	16"	D	22040968	22040976	22040984	5018604
	3-3/4" Combo Cutter <i>Used for manhole reconstruction</i>	11-1/2"	PB	N/A	N/A	22040612	22040620
	5" Asphalt Cutter <i>Used for asphalt cutting and removal</i>	11"	PB	22040935	50190404	50185982	50185990
	5-1/2" Clay Spade <i>Used for trench digging and trimming</i>	11"	D	50189596	50189554	50189562	50189570
	1" Pipe Drivers <i>Used for driving steel pipe with up to 1-1/2" OD</i>	11"	PB	N/A	N/A	22040505	22040513
	1-1/2" Pipe Drivers	11"	PB	N/A	N/A	22040547	22040554
	Ground Rod Driver <i>Used for driving steel rod with up to 1" OD</i>	8"	PB	N/A	22040588	22040596	22040604
	Detachable Shank <i>To be used with tent stake drivers or tamping pad</i>	7-3/4"	PB / D	22040927	50187830	50187848	50187855
	2" Tent Stake Drivers <i>Used with detachable shank</i>	N/A	PB / D	22040638	22040638	22040638	22040638
	2-1/2" Tent Stake Drivers	N/A	PB / D	22040646	22040646	22040646	22040646
	8" Tamping Pad Square <i>Used for tamping and backfilling; used with detachable shank</i>	N/A	PB / D	50187897	50187897	50187897	50187897
	3-piece Sign Post Driver <i>Includes shank, post block, and 3-1/2" IO driver</i>	7-3/4"	PB / D	22040778	22040943	22041008	22041016

\*PB = Pavement Breaker  
D = Digger

Super-duty moil points and chisels are rounded under the collar and have more mass and strength for longer life and less sharpening. Other steels and lengths available from Ingersoll Rand Construction Tool Steels and Accessories Catalog: Form # IRPS-0407-006.

## Jackhammers and Rockdrills

- ▶ Easy-access adjustable 3-speed throttle
- ▶ Reversible pawls
- ▶ Integral muffler
- ▶ For wet or dry drilling



Model	Hex Shank Size	Stroke in (mm)	Bore in (mm)	Length Without Accessory in (mm)	Weight Without Accessory lb (kg)	Max Hole Diameter	Max Hole Depth	bpm	cfm	Inlet Size NPT in	Recommended Hose Size in (mm)
JRD30-A	7/8" x 3-1/4"	1.44" (37)	2.38" (60)	19.5" (495)	29 (13.2)	1.5" (38)	10' (254)	2,700	73	3/4"	3/4" (19)
JRD30-B	7/8" x 4-1/4"	1.44" (37)	2.38" (60)	19.5" (495)	29 (13.2)	1.5" (38)	10' (254)	2,700	73	3/4"	3/4" (19)
JH40C1	7/8" x 3-1/4"	2.63" (67)	2.5" (63.5)	22.5" (572)	61 (27.7)	2" (51)	18' (457)	2,000	115	3/4"	3/4" (19)
JH40C2	7/8" x 4-1/4"	2.63" (67)	2.5" (63.5)	22.5" (572)	61 (27.7)	2" (51)	18' (457)	2,000	115	3/4"	3/4" (19)
JH40C3	1" x 4-1/4"	2.63" (67)	2.5" (63.5)	22.5" (572)	61 (27.7)	2" (51)	18' (457)	2,000	115	3/4"	3/4" (19)
JRD50-A	7/8" x 3-1/4"	2" (51)	3" (76)	20.5" (521)	51 (23)	2" (51)	16' (406)	2,300	120	3/4"	3/4" (19)
JRD50-B	7/8" x 4-1/4"	2" (51)	3" (76)	20.5" (521)	51 (23)	2" (51)	16' (406)	2,300	120	3/4"	3/4" (19)
JRD50-C	1" x 4-1/4"	2" (51)	3" (76)	20.5" (521)	51 (23)	2" (51)	16' (406)	2,300	120	3/4"	3/4" (19)

Performance figures are at 90 psi (6.2 bar) air pressure.

## Steels, Bits, and Retainers

Product	Description	Under Collar Length in			
		7/8" x 3-1/4"	7/8" x 4-1/4"	1" x 4-1/4"	1" x 4-1/4"
	"H" Thread Jack Rods	18"	50283266	51242014	50713031
		24"	50283506	51233690	50354596
		30"	51305639	51242030	51305704
		36"	50712728	51234052	50713049
		48"	50283555	51234060	50283183
		60"	50712736	51242063	50713056

Product	Description	Bit Size in (mm)	Part Number	
			Single-use	Multi-use
	"H" Thread Carbide Bits	1-1/2" (38)	51248367	51248300
		1-3/4" (44)	51248383	51248326
		2" (52)	51248409	51248342
		2-1/4" (57)	N/A	51356723
		2-1/2" (64)	N/A	51293017

Product	Description	Bit Diameter in	Depth in	Length in	Part Number		
					7/8" x 3-1/4"	7/8" x 4-1/4"	1" x 4-1/4"
	Carbide-tipped Drill Steel	5/8"	15"	18"	WB581518	WBA581518	N/A
		5/8"	21"	24"	WB582124	WBA582124	N/A
		3/4"	15"	18"	WB341518	WBA341518	WBC341518
		3/4"	21"	24"	WB342124	WBA342124	WBC342124
		7/8"	15"	18"	WB781518	WBA781518	WBC781518
		7/8"	21"	24"	WB782124	WBA782124	WBC782124
		1"	15"	18"	WB11518	WBA11518	WBC11518
		1"	21"	24"	WB12124	WBA12124	WBC12124
		1-1/8"	15"	18"	WB1181518	WBA1181518	WBC1181518
		1-1/8"	21"	24"	WB1182124	WBA1182124	WBC1182124

A full line of carbide-tipped drill steels and 1-1/4" x 4-1/4" hex shank rope thread jackrod is available from the Ingersoll Rand Construction Tool Steels and Accessories catalog, along with other sizes of jackrod and bits: Form # IRPS-0407-006.

## Rivet Busters

- ▶ Piston bridge prevents accidental discharge for increased safety
- ▶ Steel throttle valve
- ▶ Case-hardened alloy steel cylinder
- ▶ Heavy-duty upper and lower sleeves
- ▶ Takes industry standard jumbo steel
- ▶ Directional exhaust (9001 and 11001 models only)



Model	Barrel Type	Stroke in (mm)	Bore in (mm)	Length Without Accessory in (mm)	Weight Without Accessory lb (kg)	bpm	cfm	Inlet Size NPT in	Recommended Hose Size in (mm)
8001A	Grooved barrel with lock spring	8" (203)	1.19" (30)	22.5" (572)	30 (13.6)	1,140	44	1/2"	3/4" (19)
9001A	Grooved barrel with lock spring	9" (229)	1.06" (27)	22.5" (572)	24.75 (11.2)	900	40	1/2"	3/4" (19)
9001	Threaded barrel with lock clip	9" (229)	1.06" (27)	22.5" (572)	24.75 (11.2)	900	40	1/2"	3/4" (19)
11001A	Grooved barrel with lock spring	11" (279)	1.06" (27)	24.5" (622)	30.21 (13.7)	800	45	1/2"	3/4" (19)
11001	Threaded barrel with lock clip	11" (279)	1.06" (27)	24.5" (622)	30.21 (13.7)	800	45	1/2"	3/4" (19)

Performance figures are at 90 psi (6.2 bar) air pressure.

## Rivet Buster Steels and Retainers

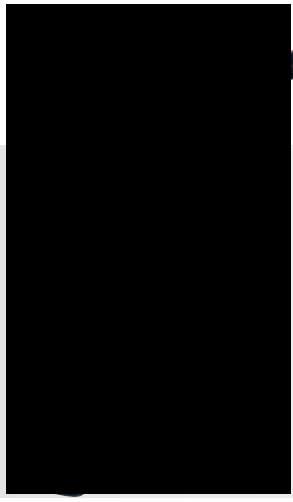
Product	Description	Length in (mm)	Part Number
	Moil Point	9" (229)	9001-297-9
		12" (305)	9001-297-12
	Chisels	9-1/2" (241)	9001-276-9-1/2
		12" (305)	9001-276-12
		18" (457)	9001-276-18
	Side-cut Chisel	9-1/2" (241)	9001-277-9-1/2
		12" (305)	9001-277-12
	Ripper Chisel	9-1/2" (241)	9001-295 9-1/2
		12" (305)	9001-295-12

Product	Description	Threaded Barrel 9001, 11001	Grooved Barrel 8001A, 9001A, 11001A
	Retainer	N/A	89938443
	Retainer	9001-200	N/A
	Upper Sleeve	9001-220	9001-220
	Lower Sleeve	9001-201	9001-201

Product	Description	Threaded Barrel 9001, 11001	Grooved Barrel 8001A, 9001A, 11001A
	Bumper	9001-203	9001-203
	Lock Clip	9RB-207	N/A
	Spring Lock	N/A	89938450
	Key	9001-208	N/A
	Pin	FMD2-667	N/A

# Chipping Hammers

- ▶ General / light duty
- ▶ Swivel handle with lock spring return
- ▶ Swivel handle with outside trigger
- ▶ Replaceable piston
- ▶ Uses oval collar accessories



## D Series

- ▶ Construction-duty
- ▶ Die-cast aluminum handle with outside trigger
- ▶ Directional exhaust
- ▶ Available in 2", 3", or 4" stroke
- ▶ Tease throttle
- ▶ Uses oval collar accessories



2DA2SA

Model	Retainer Type	Stroke in (mm)	Bore in (mm)	Length Without Accessory in (mm)	Weight Without Accessory lb (kg)	bpm	cfm	Inlet Size NPT in	Recommended Hose Size in (mm)
<b>D SERIES CONSTRUCTION-DUTY CHIPPERS</b>									
<b>WITH .580" HEX NOZZLE — FOR USE WITH HEX SHANK OVAL COLLAR ACCESSORIES</b>									
2DA1SA	Standard	2" (51)	1.13" (29)	13.75" (349)	13.75 (6.25)	2,200	28	7/8"-24	1" (25)
3DA1SA	Standard	3" (76)	1.13" (29)	17" (432)	15 (6.82)	1,900	31	7/8"-24	1" (25)
4DA1SA	Standard	4" (102)	1.13" (29)	18" (457)	16 (7.27)	1,600	34	7/8"-24	1" (25)
<b>WITH .680" ROUND NOZZLE — FOR USE WITH ROUND SHANK OVAL COLLAR ACCESSORIES</b>									
2DA2SA	Standard	2" (51)	1.13" (29)	13.75" (349)	13.75 (6.25)	2,200	28	7/8"-24	1" (25)
3DA2SA	Standard	3" (76)	1.13" (29)	17" (432)	15 (6.82)	1,900	31	7/8"-24	1" (25)
4DA2SA	Standard	4" (102)	1.13" (29)	18" (457)	16 (7.27)	1,600	34	7/8"-24	1" (25)

Performance figures are at 90 psi (6.2 bar) air pressure.

## Chipping Hammers

### A Series

- ▶ Industrial-duty
- ▶ Grooved barrel with lock-spring retainer
- ▶ Swan-neck handle with outside trigger
- ▶ Replaceable piston
- ▶ Uses oval collar accessories



2A2SA

### W Series

- ▶ Heavy-duty
- ▶ Swan-neck handle with outside trigger
- ▶ Heavy-duty threaded barrel
- ▶ Rubber buffered screw on retainer
- ▶ Uses round collar accessories








W3A2








Model	Retainer Type	Stroke in (mm)	Bore in (mm)	Length Without Accessory in (mm)	Weight Without Accessory lb (kg)	bpm	cfm	Inlet Size NPT in	Recommended Hose Size in (mm)
<b>A SERIES INDUSTRIAL-DUTY CHIPPERS</b>									
<b>WITH .580" HEX NOZZLE — FOR USE WITH (X4) HEX SHANK OVAL COLLAR ACCESSORIES</b>									
1A1SA	Standard	1" (25)	1.13" (28)	15.5" (394)	14.75 (6.69)	2,500	28	3/8"	1/2" (13)
2A1SA	Standard	2" (51)	1.13" (28)	16" (406)	15.13 (6.86)	2,300	28	3/8"	1/2" (13)
3A1SA	Standard	3" (76)	1.13" (28)	17.88" (454)	16.63 (7.54)	1,725	29	3/8"	1/2" (13)
4A1SA	Standard	4" (102)	1.13" (28)	18.88" (480)	17.5 (7.94)	1,480	29	3/8"	1/2" (13)
<b>WITH .680" ROUND NOZZLE — FOR USE WITH (X4) ROUND SHANK OVAL COLLAR ACCESSORIES</b>									
1A2SA	Standard	1" (25)	1.13" (28)	15.5" (394)	14.75 (6.69)	2,500	28	3/8"	1/2" (13)
2A2SA	Standard	2" (51)	1.13" (28)	16" (406)	15.13 (6.86)	2,300	28	3/8"	1/2" (13)
3A2SA	Standard	3" (76)	1.13" (28)	17.88" (454)	16.63 (7.54)	1,725	29	3/8"	1/2" (13)
4A2SA	Standard	4" (102)	1.13" (28)	18.88" (480)	17.5 (7.94)	1,480	29	3/8"	1/2" (13)
<b>W SERIES HEAVY-DUTY CHIPPERS</b>									
<b>WITH .580" HEX NOZZLE — FOR USE WITH (X4) HEX SHANK ROUND COLLAR ACCESSORIES</b>									
W1A1	Rubber-buffered	1" (25)	1.13" (28)	15.88" (403)	14.75 (6.69)	2,500	28	3/8"	1/2" (13)
W2A1	Rubber-buffered	2" (51)	1.13" (28)	16.38" (416)	15.13 (6.86)	2,300	28	3/8"	1/2" (13)
W3A1	Rubber-buffered	3" (76)	1.13" (28)	18.25" (464)	16.63 (7.54)	1,725	29	3/8"	1/2" (13)
W4A1	Rubber-buffered	4" (102)	1.13" (28)	19.25" (489)	17.5 (7.94)	1,480	29	3/8"	1/2" (13)
<b>WITH .680" ROUND NOZZLE — FOR USE WITH (X4) ROUND SHANK ROUND COLLAR ACCESSORIES</b>									
W1A2	Rubber-buffered	1" (25)	1.13" (28)	15.88" (403)	14.75 (6.69)	2,500	28	3/8"	1/2" (13)
W2A2	Rubber-buffered	2" (51)	1.13" (28)	16.38" (416)	15.13 (6.86)	2,300	28	3/8"	1/2" (13)
W3A2	Rubber-buffered	3" (76)	1.13" (28)	18.25" (464)	16.63 (7.54)	1,725	29	3/8"	1/2" (13)
W4A2	Rubber-buffered	4" (102)	1.13" (28)	19.25" (489)	17.5 (7.94)	1,480	29	3/8"	1/2" (13)

Performance figures are at 90 psi (6.2 bar) air pressure.






## Chipping Hammer Steels and Retainers

Product	Description	Under Collar Length	K, A, and D Series		W Series	
			0.68 Round Shank Oval Collar	0.58 Hex Shank Oval Collar	0.68 Round Shank Round Collar	0.58 Hex Shank Round Collar
	1" Flat Chisel	9"	HH1-215F-9	HH1-214F-9	H3R-215F-9	H3R-214F-9
		12"	HH1-215F-12	HH1-214F-12	H3R-215F-12	H3R-214F-12
		18"	HH1-215F-18	HH1-214F-18	H3R-215F-18	H3R-214F-18
	Moil Point	9"	HH1-215M-9	HH1-214M-9	H3R-215M-9	H3R-214M-9
		12"	HH1-215M-12	HH1-214M-12	H3R-215M-12	H3R-214M-12
		18"	HH1-215M-18	HH1-214M-18	H3R-215M-18	H3R-214M-18
	2" Scaling Chisel	9"	HH1-323-9	HH1-324-9	HH1-423-9	HH1-424-9
		12"	HH1-323-12	HH1-324-12	H3R-423-12	H3R-424-12
	Diamond Point	12"	HH1-215D-12	HH1-214D-12	H3R-215D-12	H3R-214D-12
	Bushing Tool	9"	HH1-215T-9	HH1-214T-9	H3R-215T-9	H3R-214T-9

Other steels available from Ingersoll Rand Construction Tool Steels and Accessories Catalog, Form # IRPS-0407-006 including spark-resistant chisels, blanks, capes, gouges, round noses, fullers, caulking, ripper chisels, tooth chisels, and paper box stripping chisels.

Product	Description	Barrel Type	K, A, and D Series	W Series
	Standard Standard on all chippers ending in SA	Grooved	HH1-1190	N/A
	Optional Quick Change	Grooved	HH1-1191	N/A
	Optional Quick Change	Grooved	HH1-3400-3	N/A
	Lock Spring Used on all grooved barrel retainers	Grooved	HH1-1194	N/A
	Rubber-Buffered* Standard on all W Series chippers	Threaded	N/A	HHW1-A300
	Optional Economy Type	Threaded	N/A	HHW2-200
	Optional Quick Change	Threaded	N/A	HHW1-3450

\*W Series chipper with rubber-buffered retainer, part number HHW1-A300, includes the parts below.

Product	Description	Part Number
	Upper Buffer Washer (2 pieces)	H3R-31
	Lower Buffer Washer (2 pieces)	HHW1-213
	Lower Buffer Washer Ring	R000A2-103
	Rubber Bumper	H3R-203
	Lock Clip	24SR-207

## Backfill Tampers and Sand Rammers

### Sand Rammers

- ▶ Time-tested valve design
- ▶ Round piston rod
- ▶ Dual-action sand wiper keeps dirt out of the barrel
- ▶ 2-1/2" butt standard on 130A1M; 3" butt standard on 241A1M



### Backfill Tampers

- ▶ Built-in lubricator and muffler
- ▶ Dual-action sand wiper keeps dirt out of the barrel
- ▶ Plated piston
- ▶ 5-3/4" round malleable butt standard on both the 341A2M and 441A2

130A1M

241A1M

341A2M

441A2

Model	Type	Stroke in (mm)	Bore in (mm)	Length in (mm)	Weight lb (kg)	bpm	cfm	Inlet Size NPT in	Recommended Hose Size in (mm)
<b>SAND RAMMERS</b>									
130A1M	Bench	2.5" (63)	1" (25)	21.5" (546)	11.56 (5.24)	870	14	1/4"	3/8" (10)
241A1M	Floor	4" (102)	1.31" (33)	52.75" (1340)	26.88 (12.2)	1,590	29	3/8"	1/2" (13)
<b>BACKFILL TAMPERS</b>									
341A2M	N/A	4" (102)	1.63" (41)	52.75" (1340)	34.88 (15.8)	1,550	29	3/8"	1/2" (13)
441A2	N/A	4" (102)	2" (51)	50.88" (1292)	47.13 (21.4)	1,750	36	3/8"	1/2" (13)

Performance figures are at 90 psi (6.2 bar) air pressure.

### Accessory Options

Description Of Butt	Part Number
<b>FOR MODEL 130A1M — 1/2" TAPERED ROD</b>	
Malleable butt 2-1/2" (64 mm) diameter, standard	12SR-83
Rubber-tipped butt 2-3/8" (60 mm) diameter	14SR-83R-2-3/8
Rubber topping-off butt 3-29/32" (99 mm) diameter	14SR-83R-4
Rubber-tipped peen	14SR-93R
<b>FOR MODEL 341A2M — 7/8" TAPERED ROD</b>	
Malleable butt 5-3/4" (146 mm) diameter, standard	34SR-M183-5-3/4
Steel butt 3" (76 mm) diameter	34SR-383

Description Of Butt	Part Number
<b>FOR MODEL 241A1M — 5/8" TAPERED ROD</b>	
Malleable butt 3" (76 mm) diameter, standard	22SR-83-3x3/4
Rubber-tipped butt 3" (76 mm) diameter	24SR-83R-3
Rubber-tipped butt 5" (127 mm) diameter	24SR-83R-5
<b>FOR MODEL 441A2 — 1" TAPERED ROD</b>	
Malleable butt 5-3/4" (146 mm) diameter, standard	44SR-M183-5-3/4
Half-moon butt 5-1/4" (133 mm) diameter	44SR-HM183-5

## Air Line Accessories



### Hoses

Part Number	Hose ID in	Length ft	Rated psi
<b>DOUBLE-BANDED UNIVERSAL — BOTH ENDS</b>			
22040679	3/4"	50'	300
<b>DOUBLE-BANDED UNIVERSAL — 3/8" NPT STRAIGHT MALE</b>			
22040687	1/2"	8'	250
<b>DOUBLE-BANDED UNIVERSAL — 1/2" NPT STRAIGHT MALE</b>			
22041453	1/2"	8'	250
<b>DOUBLE-BANDED UNIVERSAL — 1/2" NPT SWIVEL MALE</b>			
22041479	1/2"	8'	250

### Needle Pressure Gauge

Part Number	Description
NPG-A1	Gauge kit

### Swivel Inlets

Part Number	Description	Duty Type
HH1-A165	3/8" NPT x 1/2" hose barb	General-duty
HH1-SW7/8	7/8" x 24" NPT x 1/2" hose barb	General-duty
HH1-VSW7/8	7/8" x 24" NPT x 1/2" hose barb	Heavy-duty
HH1-VSW1/2	1/2" NPT x 1/2" hose barb	Heavy-duty








### Oilers

Oil Capacity	3 oz	5 oz	8 oz	16 oz
NPT Pipe Size	1/2"	3/4"	3/4"	1"
Part Number	3LUB8	6LUB12	8LUB12	16LUB16

### Combination Unit with Gauge

Female NPT	FRL Part Number
1/4" Mini	C28121-800
1/4"	C28221-810
3/8"	C28231-810
1/2"	C28241-810
3/4"	C31-06-G00
1"	C31-08-G00

### Couplers

Hose / Pipe Thread in	Universal To Female	Universal To Hose Barb	Universal To Male	OSHA Shut-off Valve	Universal 3-way	Universal Coupler Gasket	Hose Clamp
3/8"	N/A	N/A	UM-37-M	N/A	UW-300-B	UG-100	MT1-AL34-3/8
1/2"	UF-50-M	UH-50-M	UM-50-M	N/A	UW-300-B	UG-100	MT1-AL34-1/2
3/4"	UF-75-M	UH-75-M	UM-75-M	170-6	UW-300-B	UG-100	MT1-AL34-3/4
1"	UF-100-M	UH-100-M	UM-100-M	170-8	UW-300-B	UG-100	MT1-AL34-1
							





Distributed by:



Ingersoll Rand (NYSE:IR) advances the quality of life by creating and sustaining safe, comfortable and efficient environments. Our people and our family of brands — including Club Car®, Ingersoll Rand®, Schlage®, Thermo King® and Trane® — work together to enhance the quality and comfort of air in homes and buildings; transport and protect food and perishables; secure homes and commercial properties; and increase industrial productivity and efficiency. We are a \$14 billion global business committed to a world of sustainable progress and enduring results.

[Ingersollrandproducts.com](http://Ingersollrandproducts.com)

© 2008 Ingersoll-Rand Company IRITS-1108-130 R0309