



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 followed. He built a business and an industry with the power and tools that helped create wonders such as the Hoover Dam and Mt. Rushmore. Those who followed him continued this pioneering spirit, adding tools for every job and new refinements to make them even more powerful, efficient, and durable.

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 impact wrenches 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 unique heritage, proven performance, and strong customer support. Go to irtools.com or contact an Ingersoll Rand representative at 800-376-TOOL for complete details.



Construction Tools		3
Air Compressors		16
Service and Maintenance Tools		21
Hoists and Winches		36

Construction Tools



Pavement Breakers	5
Spike Drivers	7
Diggers	8
Jackhamers™ / Rockdrills	9
Rivet Busters	10
Chipping Hammers	11
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 the operator's leg, and is easily removed for routine maintenance.

Drop-in valve cartridge:
Simplifies maintenance and reduces overall operating cost.

Powr-Strok™ piston cycle:
Transfers blow energy directly to the tool.

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. Fewer parts mean lower operating cost.

Patented anvil bushing:
Eliminates the need for an anvil block while delivering smooth operation, superior control, and unsurpassed breaking power.

Unique metallurgy:
Cylinder area work-hardens as the tool is used, increasing wear resistance.

Advantages, Inside and Out
State-of-the-art non-metallic materials are used to eliminate rust and to ensure consistent performance.

30% fewer parts

Ingersoll Rand 60 and 90 lb 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 assure 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 w/o Accessory in (mm)	Weight w/o Accessory lb (kg)	bpm	cfm	Inlet Size in NPT	Recomm. Hose Size in (mm)
MUFFLED PAVING BREAKERS									
PB35AS8	1" x 4-1/4"	6-1/4" (159)	1-3/4" (44)	25" (625)	43(20)	1250	49	3/4"	3/4" (19)
PB50AS1	1-1/8" x 6"	6-1/4" (159)	1-3/4" (44)	27-1/2" (699)	55 (25)	1150	58	3/4"	3/4" (19)
NON-MUFFLED PAVING BREAKERS									
PB35AL8	1" x 4-1/4"	6-1/4" (159)	1-3/4" (44)	25" (625)	40 (18)	1250	49	3/4"	3/4" (19)
PB50AL1	1-1/8" x 6"	6-1/4" (159)	1-3/4" (44)	27-1/2" (699)	52 (24)	1150	58	3/4"	3/4" (19)

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

MX Series

- ▶ No costly side rods and springs
- ▶ Composite valve eliminates rusting
- ▶ Directional exhaust eliminates blow back
- ▶ Built in lubricator
- ▶ Hand serviceable shank doesn't require a press to service
- ▶ Backhead conforms to operators leg
- ▶ Optional muffler sold separately



MX60A



MX90

MX Series with IR Flex-Handle™

- ▶ IR Flex-Handles provide vibration dampening in a full 360 degree 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 w/o Accessory in (mm)	Weight w/o Accessory lb (kg)	bpm	cfm	Inlet Size in NPT	Recomm. Hose Size in (mm)	Muffler Part Number
STANDARD MODELS										
MX60A	1-1/8" x 6"	5.75" (146)	2.06" (52.3)	27.5" (686)	76 (31.8)	1250	70	3/4"	3/4" (19)	04704862
MX60B	1-1/4" x 6"	5.75" (146)	2.06" (52.3)	27.5" (686)	76 (31.8)	1250	70	3/4"	3/4" (19)	04704862
MX90A	1-1/8" x 6"	5.75" (146)	2.62" (66.5)	27.5" (686)	87 (39.5)	1250	85	3/4"	3/4" (19)	04704862
MX90B	1-1/4" x 6"	5.75" (146)	2.62" (66.5)	27.5" (686)	87 (39.5)	1250	85	3/4"	3/4" (19)	04704862
VIBRATION REDUCED FLEX-HANDLE MODELS										
MX60AF	1-1/8" x 6"	5.75" (146)	2.06" (52.3)	27.5" (686)	76 (31.8)	1250	70	3/4"	3/4" (19)	04704862
MX60BF	1-1/4" x 6"	5.75" (146)	2.06" (52.3)	27.5" (686)	76 (31.8)	1250	70	3/4"	3/4" (19)	04704862
MX90AF	1-1/8" x 6"	5.75" (146)	2.62" (66.5)	27.5" (686)	87 (39.5)	1250	85	3/4"	3/4" (19)	04704862
MX90BF	1-1/4" x 6"	5.75" (146)	2.62" (66.5)	27.5" (686)	87 (39.5)	1250	85	3/4"	3/4" (19)	04704862

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 valve rust
- ▶ Power-stroke piston
- ▶ Fronthead guides and supports spike



MX60-SD

MX90-SD

MODEL	Stroke in (mm)	Bore in (mm)	Length w/ Accessory in (mm)	Weight w/o Accessory lb (kg)	bpm	cfm	Inlet Size in NPT	Recomm. Hose Size in (mm)
FIXED								
MX60-SD	5.75" (146)	2.06" (52.3)	27.5" (686)	69 (31.4)	1250	70	3/4"	3/4" (19)
MX90-SD	5.75" (146)	2.62" (66.5)	27.5" (686)	84 (38.0)	1250	85	3/4"	3/4" (19)
FLEXED								
MX60F-SD	5.75" (146)	2.06" (52.3)	27.5" (686)	69 (31.4)	1250	70	3/4"	3/4" (19)
MX90F-SD	5.75" (146)	2.62" (66.5)	27.5" (686)	84 (38.0)	1250	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

















93LA1

95LA1

MODEL	Retainer Type	Hex Shank Size	Length w/o Stroke in (mm)	Weight w/o Bore in (mm)	Accessory in (mm)	Accessory lb (kg)	bpm	cfm	Inlet Size in NPT	Recomm. Hose Size in (mm)
93 SERIES - LIGHTWEIGHT DIGGER										
93A1	Sleeve	7/8" x 3-1/4"	2-1/2" (64)	1-11/16" (43)	18-7/8" (479)	22 (10)	2350	45	3/8"	1/2" (13)
93A4	Hitch	7/8" x 3-1/4"	2-1/2" (64)	1-11/16" (43)	17-7/8" (454)	21 (9.5)	2350	45	3/8"	1/2" (13)
93LA1	Latch	7/8" x 3-1/4"	2-1/2" (64)	1-11/16" (43)	18-7/8" (479)	23 (10.4)	2350	45	3/8"	1/2" (13)
95 SERIES - MEDIUM WEIGHT DIGGER										
95A1	Sleeve	7/8" x 3-1/4"	4" (102)	1-11/16" (43)	21-7/8" (556)	27 (12.3)	1850	47	3/8"	1/2" (13)
95LA1	Latch	7/8" x 3-1/4"	4" (102)	1-11/16" (43)	21-7/8" (556)	28 (12.7)	1850	47	3/8"	1/2" (13)
95LA3	Latch	7/8" x 3-1/4"	4" (102)	1-11/16" (43)	21-7/8" (556)	30 (13.6)	1850	47	3/8"	1/2" (13)

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

Pavement Breaker and Digger Steel

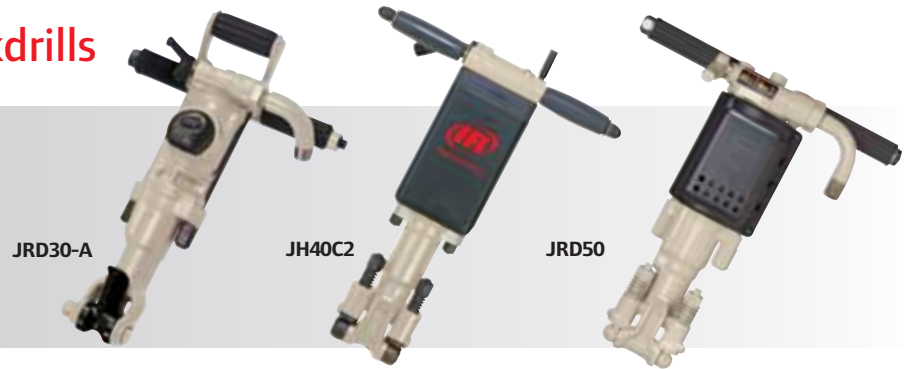
Product	Steel Description	Under Collar		Hex Shank Size & Part Number				
		Length	Tool*	7/8" x 3-1/4"	1" x 4-1/4"	1-1/8" x 6"	1-1/4" x 6"	
	Moil Points — Standard-Duty <i>Used for general demolition.</i>	14"	PB/D	50050269	50050368	50050475	50055680	
		18"		50050277	50050376	50055524	50055698	
		24"		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"	PB/D	22041495	22041057	22041073	22041099	
		14-1/4"		22041602	22041065	22041081	22041107	
		1" Narrow Chisels — Standard-Duty <i>Used for general demolition.</i>	14"	PB/D	50199207	50197805	50197904	50196385
			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"	PB/D	22041503	22041115	22041131	22041156	
		14-1/4"		22041610	22041123	22041149	22041164	
		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>Great for manhole reconstruction.</i>	11-1/2"	PB	N/A	N/A	22040612	22040620	
	5" Asphalt Cutter <i>Asphalt cutting and removal.</i>	11"	PB	22040935	50190404	50185982	50185990	
	5-1/2" Clay Spade <i>Trench digging and trimming.</i>	11"	D	50189596	50189554	50189562	50189570	
	1" Pipe Drivers <i>Driving steel pipe 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>Driving steel rod 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>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 steel and lengths available through Ingersoll Rand Construction Tool Steels & Accessories Catalog: Form IRPS-0407-006.

Jackhamers™ and Rockdrills


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

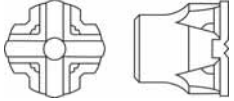



MODEL	Hex Shank Size	Stroke in (mm)	Bore in (mm)	Length w/o Accessory in (mm)	Weight w/o Accessory lb (kg)	bpm	cfm	Inlet Size in NPT	Recomm. Hose Size in (mm)
JRD30-A	7/8" x 3-1/4"	1-7/16" (37)	2-3/8" (60)	19-1/2" (495)	29 (13.2)	2700	73	3/4"	3/4" (19)
JRD30-B	7/8" x 4-1/4"	1-7/16" (37)	2-3/8" (60)	19-1/2" (495)	29 (13.2)	2700	73	3/4"	3/4" (19)
JH40C1	7/8" x 3-1/4"	2-5/8" (67)	2-1/2" (63.5)	22-1/2" (572)	61 (27.7)	2000	115	3/4"	3/4" (19)
JH40C2	7/8" x 4-1/4"	2-5/8" (67)	2-1/2" (63.5)	22-1/2" (572)	61 (27.7)	2000	115	3/4"	3/4" (19)
JH40C3	1" x 4-1/4"	2-5/8" (67)	2-1/2" (63.5)	22-1/2" (572)	61 (27.7)	2000	115	3/4"	3/4" (19)
JRD50-A	7/8" x 3-1/4"	2" (51)	3" (76)	20-1/2" (521)	51 (23)	2300	120	3/4"	3/4" (19)
JRD50-B	7/8" x 4-1/4"	2" (51)	3" (76)	20-1/2" (521)	51 (23)	2300	120	3/4"	3/4" (19)
JRD50-C	1" x 4-1/4"	2" (51)	3" (76)	20-1/2" (521)	51 (23)	2300	120	3/4"	3/4" (19)

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

Steel, Bits, and Retainers

Product	Description	Under Collar Length (in)	Hex Shank Part Number & Size		
			7/8" x 3-1/4"	7/8" 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		Part Number	
		in	mm	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 & 1-1/4 in. x 4-1/4 in. Hex Shank Rope Thread Jackrod are available in the Ingersoll Rand Construction Tool Steels & 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 w/o Accessory in (mm)	Weight w/o Accessory lb (kg)	bpm	cfm	Inlet Size in NPT	Recomm. Hose Size in (mm)
8001A	Grooved barrel with lock spring	8" (203)	1-3/16" (30)	22-1/2" (572)	30 (13.6)	1140	44	1/2"	3/4" (19)
9001A	Grooved barrel with lock spring	9" (229)	1-1/16" (27)	22-1/2" (572)	24.75 (11.2)	900	40	1/2"	3/4" (19)
9001	Threaded barrel with lock clip	9" (229)	1-1/16" (27)	22-1/2" (572)	24.75 (11.2)	900	40	1/2"	3/4" (19)
11001A	Grooved barrel with lock spring	11" (279)	1-1/16" (27)	24-1/2" (622)	30.21 (13.7)	800	45	1/2"	3/4" (19)
11001	Threaded barrel with lock clip	11" (279)	1-1/16" (27)	24-1/2" (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 Steel and Retainers

Product	Description	Length		Part Number
		in	mm	
	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	Product	Description	Threaded Barrel 9001, 11001	Grooved Barrel 8001A, 9001A, 11001A
	Retainer	N/A	89938443		Bumper	9001-203	9001-203
	Retainer	9001-200	N/A		Lock Clip	9RB-207	N/A
	Upper Sleeve	9001-220	9001-220		Spring Lock	N/A	89938450
	Lower Sleeve	9001-201	9001-201		Key	9001-208	N/A
					Pin	FMD2-667	N/A

Chipping Hammers

"K" Series

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



K2LA1

"D" Series

- ▶ Construction duty
- ▶ Die case 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 w/o Accessory in (mm)	Weight w/o Accessory lb (kg)	bpm	cfm	Inlet Size in NPT	Recomm. Hose Size in (mm)
'K' SERIES LIGHT DUTY CHIPPERS									
WITH .580" HEX NOZZLE — FOR USE WITH HEX SHANK OVAL COLLARED ACCESSORIES									
K2LA1	None	1-3/4" (44)	7/8" (22)	10-7/8" (276)	6 (2.72)	3600	18	1/4"	1/2" (13)
K2LA1SA	Plain Arrow	1-3/4" (44)	7/8" (22)	12" (305)	8 (3.63)	4000	18	1/4"	1/2" (13)
WITH .680" ROUND NOZZLE — FOR USE WITH ROUND SHANK OVAL COLLARED ACCESSORIES									
K2LA2	None	1-3/4" (44)	7/8" (22)	10-7/8" (276)	6 (2.72)	3600	18	1/4"	1/2" (13)
K2LA2SA	Plain Arrow	1-3/4" (44)	7/8" (22)	12" (305)	8 (3.63)	4000	18	1/4"	1/2" (13)
'D' SERIES CONSTRUCTION DUTY CHIPPERS									
WITH .580" HEX NOZZLE — FOR USE WITH HEX SHANK OVAL COLLARED ACCESSORIES									
2DA1SA	Std	2" (51)	1-1/8" (29)	13-3/4" (349)	11-3/4 (5.33)	2200	28	7/8"-24	1" (25)
3DA1SA	Std	3" (76)	1-1/8" (29)	17" (432)	13 (5.90)	1900	31	7/8"-24	1" (25)
4DA1SA	Std	4" (102)	1-1/8" (29)	18" (457)	14 (6.35)	1600	34	7/8"-24	1" (25)
WITH .680" ROUND NOZZLE — FOR USE WITH ROUND SHANK OVAL COLLARED ACCESSORIES									
2DA2SA	Std	2" (51)	1-1/8" (29)	13-3/4" (349)	11-3/4 (5.33)	2200	28	7/8"-24	1" (25)
3DA2SA	Std	3" (76)	1-1/8" (29)	17" (432)	13 (5.90)	1900	31	7/8"-24	1" (25)
4DA2SA	Std	4" (102)	1-1/8" (29)	18" (457)	(457) (6.35)	1600	34	7/8"-24	1" (25)

(1) Weight of standard retainer and spring equals 2 lbs.

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 w/o Accessory in (mm)	Weight w/o Accessory lb (kg)	bpm	cfm	Inlet Size in NPT	Recomm. Hose Size in (mm)
'A' SERIES INDUSTRIAL DUTY CHIPPERS									
WITH .580" HEX NOZZLE — FOR USE WITH (X4) HEX SHANK OVAL COLLARED ACCESSORIES									
1A1SA	Plain	1/2" (13)	1-1/8" (28)	15-1/2" (394)	14-3/4 (6.69)	2500	28	3/8"	1/2" (13)
2A1SA	Plain	1/2" (13)	1-1/8" (28)	16" (406)	15-1/8 (6.86)	2300	28	3/8"	1/2" (13)
3A1SA	Plain	1/2" (13)	1-1/8" (28)	17-7/8" (454)	16-5/8 (7.54)	1725	29	3/8"	1/2" (13)
4A1SA	Plain	1/2" (13)	1-1/8" (28)	18-7/8" (480)	17-1/2 (7.94)	1480	29	3/8"	1/2" (13)
WITH .680" ROUND NOZZLE — FOR USE WITH (X4) ROUND SHANK OVAL COLLARED ACCESSORIES									
1A2SA	Plain	1/2" (13)	1-1/8" (28)	15-1/2" (394)	14-3/4 (6.69)	2500	28	3/8"	1/2" (13)
2A2SA	Plain	1/2" (13)	1-1/8" (28)	16" (406)	15-1/8 (6.86)	2300	28	3/8"	1/2" (13)
3A2SA	Plain	1/2" (13)	1-1/8" (28)	17-7/8" (454)	16-5/8 (7.54)	1725	29	3/8"	1/2" (13)
4A2SA	Plain	1/2" (13)	1-1/8" (28)	18-7/8" (480)	17-1/2 (7.94)	1480	29	3/8"	1/2" (13)
'W' SERIES HEAVY DUTY CHIPPERS									
WITH .580" HEX NOZZLE — TO FOR USE WITH (X4) HEX SHANK ROUND COLLARED ACCESSORIES									
W1A1	Rubber Buffered	1/2" (13)	1-1/8" (28)	15-7/8" (403)	14-3/4 (6.69)	2500	28	3/8"	1/2" (13)
W2A1	Rubber Buffered	1/2" (13)	1-1/8" (28)	16-3/8" (416)	15-1/2 (7.03)	2300	28	3/8"	1/2" (13)
W3A1	Rubber Buffered	1/2" (13)	1-1/8" (28)	18-1/4" (464)	16-5/8 (7.54)	1725	29	3/8"	1/2" (13)
W4A1	Rubber Buffered	1/2" (13)	1-1/8" (28)	19-1/4" (489)	17-1/2 (7.94)	1480	29	3/8"	1/2" (13)
WITH .680" ROUND NOZZLE — TO FOR USE WITH (X4) ROUND SHANK ROUND COLLARED ACCESSORIES									
W1A2	Rubber Buffered	1/2" (13)	1-1/8" (28)	15-7/8" (403)	14-3/4 (6.69)	2500	28	3/8"	1/2" (13)
W2A2	Rubber Buffered	1/2" (13)	1-1/8" (28)	16-3/8" (416)	15-1/2 (7.03)	2300	28	3/8"	1/2" (13)
W3A2	Rubber Buffered	1/2" (13)	1-1/8" (28)	18-1/4" (464)	16-5/8 (7.54)	1725	29	3/8"	1/2" (13)
W4A2	Rubber Buffered	1/2" (13)	1-1/8" (28)	19-1/4" (489)	17-1/2 (7.94)	1480	29	3/8"	1/2" (13)

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






Chipping Hammer Steel and Retainers

Product	Description	Under Collar Length	K, A, and D Series		W Series	
			.680 Round Shank Oval Collar	.580 Hex Shank Oval Collar	.680 Round Shank Round Collar	.580 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 through Ingersoll Rand Construction Tool Steels & Accessories Catalog, IRPS-0407-006: Spark Resistant Chisels, Blanks, Cape, Gouge, Round Nose, Fuller, Caulking, Ripper Chisel, Tooth Chisel, Paper Box Stripping Chisel.

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 ⁽¹⁾ 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

(1) "W" Series chipper w/rubber buffered retainer, part no. 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
- ▶ 2.5" 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

130A1M

241A1M

341A2M

441A2

MODEL	Type	Stroke in (mm)	Bore in (mm)	Length w/ Accessory in (mm)	Weight w/ Accessory lb (kg)	bpm	cfm	Inlet Size in NPT	Recomm. Hose Size in (mm)
SAND RAMMERS									
130A1M	Bench	2-1/2" (63)	1" (25)	21-1/2" (546)	11-9/16 (5.24)	870	14	1/4"	3/8" (10)
241A1M	Floor	4" (102)	1-5/16" (33)	52-3/4" (1340)	26-7/8 (12.2)	1590	29	3/8"	1/2" (13)
BACKFILL TAMPERS									
341A2M	-	4" (102)	1-5/8" (41)	52-3/4" (1340)	34-7/8 (15.8)	1550	29	3/8"	1/2" (13)
441A2	-	4" (102)	2" (51)	50-7/8" (1292)	47-1/8 (21.4)	1750	36	3/8"	1/2" (13)

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

Accessory Options

Description of Butt	Part Number
FOR MODEL 130A1M - 1/2" TAPERED ROD	
Malleable Butt 2-1/2" (64mm) diameter (standard)	12SR-83
Rubber Tipped Butt 2-3/8" (60mm) diameter	14SR-83R-2 3/8
Rubber Topping-off Butt 3-29/32" (99mm) diameter	14SR-83R-4
Rubber Tipped Peen	14SR-93R
FOR MODEL 341A2M - 7/8" TAPERED ROD	
Malleable Butt 5-3/4" (146mm) diameter (standard)	34SR-M183-5 3/4
Steel Butt 3" (76mm) diameter	34SR-383

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

Air Line Accessories



Hoses

Part Number	Hose ID	Length	Rated to
DOUBLE BANDED UNIVERSALS - BOTH ENDS.			
22040679	3/4"	50'	300 PSI
DOUBLE BANDED UNIVERSAL - 3/8" NPT STRAIGHT MALE.			
22040687	1/2"	8'	250 PSI
DOUBLE BANDED UNIVERSAL - 1/2" NPT STRAIGHT MALE.			
22041453	1/2"	8'	250 PSI
DOUBLE BANDED UNIVERSAL - 1/2" NPT SWIVEL MALE.			
22041479	1/2"	8'	250 PSI

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" - 24 x 1/2" Hose Barb	General Duty
HH1-VSW7/8	7/8" - 24 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 (in.)	Filter-Regulator-Lubricator
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	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

Air Compressors



Portable Air Compressors	17
Single Stage Air Compressors	18
Two Stage Air Compressors	20

Portable Air Compressors

Examples from the industry's leading line.

IR portable compressors are the industry standards for productivity. Shown here are popular examples that you'll see on job sites around the world. For a full listing, contact an IR Air Solutions representative at 877-IRBRAND.

AirSource Family

- ▶ 160 CFM – 185 CFM at 100psi
- ▶ 90 degree canopy opening for unrestricted serviceability
- ▶ Remote, spin on separator element for quick turn around
- ▶ Composite canopy is lightweight, aerodynamic and virtually indestructible
- ▶ Curbside controls and service valves make tool hook up quick and safe
- ▶ Compact and lightweight design allows for effortless towing and maneuverability
- ▶ Available with Ingersoll Rand or John Deere engine



AirSource
Plus IR

Platinum Family

- ▶ 135 CFM – 260 CFM at 100 psi – 125 psi
- ▶ Full length, high strength tool boxes
- ▶ 27 gallon fuel tank for extended run times
- ▶ Industry's widest array of factory installed options
- ▶ Heavy duty frame and running gear
- ▶ Available with Ingersoll Rand or John Deere engine



P185WIR

Utility Mount Compressors

- ▶ 185 CFM – 250 CFM at 100 psi
- ▶ Curbside access to all controls and maintenance points
- ▶ Small, lightweight footprint for truck mounting
- ▶ Sound attenuated for the quietest utility mount in the industry
- ▶ Removable side panels to enhance serviceability
- ▶ Forklift slots to facilitate transport



P185WJDU

Mid-range Compressors

- ▶ 375 CFM – 600 CFM at 100 psi – 200 psi
- ▶ Automatic shutdown protections
- ▶ Standard electric brakes with towing lights
- ▶ External, single-point lifting bail
- ▶ Full length lockable side doors with pneumatic lift springs
- ▶ Available with Ingersoll Rand or Cummins engine



XP375WIR

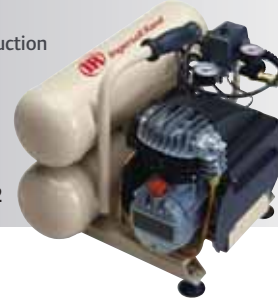
Single Stage Air Compressors

Twin Stack

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

- ▶ Lightweight and compact hand-carry size
- ▶ Durable cast-iron construction
- ▶ Extended pump life – lubricated pump offers double the life of similar oil-free products

DD2T2



Electric-Driven Single-Stage

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

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



SS5L5



SS3L3

Garage Mate

Designed for professionals and serious do-it-yourselfers, the versatile Garage Mate is ideal for the home, shop or job site. Delivering maximum air, the Garage Mate can power a variety of tools. It features a cast-iron, oil-lubricated pump for solid, reliable performance. Belt-driven for quiet operation, all models are equipped with a pressure switch, pressure gauge, regulator, safety valve, manual drain and six-foot power cord.

- ▶ 100% continuous duty for tough applications
- ▶ Durable cast-iron construction
- ▶ Quiet operation: 75-80dBA



SS3F2-GM



SS3R2-GM

Single Stage Units

MODEL	Running hp	Voltage	Tank	cfm @ 90 psi	Max psi	NPT Outlet in	Package Dimensions LxWxH in	Net Weight lbs
DD2T2	2	115-1-60	4.5-gal twin	4.4	135	3/8"	21 x 15 x 17	58
SS3R2-GM	2	115-1-60	24-gal vert	5.7	135	3/8"	23 x 25 x 51	185
SS3F2-GM	2	115-1-60	30-gal hor	5.7	135	3/8"	46 x 25 x 35	185
SS3L3	3	230-1-60	60-gal vert	11.3	135	3/8"	20 x 23 x 66	300
SS5L5	5	230-1-60	60-gal vert	18.1	135	1/2"	20 x 30 x 71	310

Wheelbarrow

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

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



Air Sled

Ingersoll Rand electric and gas engine driven Air Sled compressors feature a rugged frame support to meet the rigorous demands of field handling. Base package includes pressure gauge, manual drain, two quick disconnects to power multiple tools and twin 8-gallon capacity tanks. Electric model is belt-driven to provide quiet operation (76dBA) and includes a six-foot power cord. The gas-driven model is powered by a premium Honda engine. Available options include regulation panel, cart assembly, hose rack and weatherproof cover.

- ▶ Ergonomically designed with rugged frame support to meet the rigorous demands of field handling
- ▶ Durable cast-iron construction; oil lube
- ▶ Two quick disconnects to power multiple tools



Single Stage Units

MODEL	Running hp	Voltage	Tank	cfm @ 90 psi	Max psi	NPT Outlet in	Package Dimensions LxWxH in	Net Weight lbs
ELECTRIC								
SS3J2-WB	2	115/230-1-60	8-gal twin	5.7	135	3/8"	43 x 18 x 25	175
SS3J3-WB	3	230-1-60	8-gal twin	11.3	135	3/8"	43 x 18 x 25	175
SS3J3-AS	3	230-1-60	8-gal twin	11.3	135	3/8"	38 x 18 x 26	174

MODEL	Running hp	Engine	Tank	cfm @ 90 psi	Max psi	NPT Outlet in	Package Dimensions LxWxH in	Net Weight lbs
GAS DRIVEN								
SS3J5.5GB-WB	5.5	Briggs & Stratton	8-gal twin	11.8	135	3/8"	43 x 18 x 25	175
SS3J5.5GH-WB	5.5	Honda	8-gal twin	11.8	135	3/8"	43 x 18 x 25	175
SS3J5.5GH-AS	5.5	Honda	8-gal twin	11.8	135	3/8"	38 x 19 x 27	177

(1) WB = Wheelbarrow (2) AS = Air Sled

Two-Stage Air Compressors

Electric-Driven Two Stage

Type-30 Series Fully Packaged

Ingersoll Rand high-performance Two-Stage fully packaged air compressors are designed for the most demanding automotive, heavy-duty commercial or industrial applications where a dependable air supply is essential. Each fully packaged air compressor comes complete with a pre-installed magnetic motor starter, air-cooled aftercooler, and an electric drain valve to remove harmful moisture, plus the added protection of a low oil level shutdown switch.



2340L5

- ▶ Durable cast-iron, two-stage design offers extended pump life for years of trouble-free service
- ▶ 175 PSI maximum operating pressure
- ▶ 100% continuous duty for tough applications
- ▶ Includes magnetic motor starter, air-cooled aftercooler, electronic drain valve, low oil level shutdown switch and ASME tank

Truck Mount

Two-Stage Gasoline Engine Driven

- ▶ Truck-bed mounting
- ▶ Electronic ignition
- ▶ Idle engine control
- ▶ 30-gallon ASME receiver
- ▶ OSHA approved, fully enclosed belt guard
- ▶ Weather-resistant powder-coat paint finish
- ▶ Durable cast-iron construction
- ▶ 175 PSI maximum operating pressure
- ▶ Extended pump life
- ▶ 100% duty cycle for tough applications



2475F13GH



2475F12.5G

MODEL	Running hp	Engine	Tank	cfm @ 175 psi	Max psi	NPT Outlet in	Package Dimensions LxWxH in	Net Weight lbs
2475F13GH/AH	13	Honda with Alternator	30-gal hor	25	175	3/4"	44 x 22 x 41	430
2475F12.5G	12.5	Kohler	30-gal hor	24	175	3/4"	44 x 22 x 48	429
2475F12.5G/AH	12.5	Kohler with Alternator	30-gal hor	24	175	3/4"	44 x 22 x 48	429
2340L5	5	—	60-gal vert	15.6	175	1/2"	20 x 33 x 69	400

Service and Maintenance Tools



Impacttools™ and Ratchets	22
Cordless Tools	24
Socket Sets	27
Saws	28
Large Drills	29
Grinders and Surface Prep Tools	31
Scalers	33
Pumps	35

3/8" and 1/2" Impacttools™ and Ratchets

IR107XPA

3/8" Heavy Duty Air Ratchet Wrench

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



2135Ti

- ▶ Composite housing
- ▶ Titanium hammer case
- ▶ One-hand forward/reverse buttons
- ▶ Best power to weight in class



231HA-2

- ▶ Handle exhaust directs air away from user
- ▶ Contoured comfort handle
- ▶ Pressure-fed lubrication system
- ▶ 2" extended anvil ideal for tire changing



MODEL*	Description	Handle	Free Speed rpm	Max Torque ft-lb (Nm)	Recom. Torque Range ft-lb (Nm)	Weight lb (kg)	Length in (mm)	cfm	Recomm. Hose Size in (mm)
RATCHETS — 1/2"									
IR107XPA	1/2" square	Lever	160	50 (68)	15 – 40 (21 – 54)	2.5 (1.1)	10.5" (267)	18	3/8" (10)
IMPACTTOOLS™									
HEAVY DUTY — 3/8"									
1702P1	3/8" square	Pistol	10,000	125 (170)	15 – 100 (21 – 136)	2.75 (1.25)	5.5" (140)	15	5/16" (8)
MAINTENANCE DUTY — 3/8"									
2115PTi	3/8" square reverse bias	Pistol	15,000	F: 250 (339) R: 280 (379)	25 – 230 (34 – 312)	2.4 (1.1)	5.75" (146)	17	3/8" (10)
2115Ti	3/8" square reverse bias	Pistol	15,000	F: 250 (339) R: 280 (379)	25 – 230 (34 – 312)	2.4 (1.1)	5.75" (146)	17	3/8" (10)
212	3/8" square	Pistol	10,000	245 (180)	20 – 125 (27 – 170)	2.89 (1.31)	6" (152)	11	3/8" (10)
MAINTENANCE DUTY — 1/2"									
2135PTi	1/2" square reverse bias	Pistol	9,800	F: 625 (848) R: 700 (949)	50 – 600 (68 – 814)	3.95 (1.79)	7.34" (186)	24	3/8" (10)
2135Ti	1/2" square reverse bias	Pistol	9,800	F: 625 (848) R: 700 (949)	50 – 600 (68 – 814)	3.95 (1.79)	7.34" (186)	24	3/8" (10)
2135Ti-2	1/2" square 2" extended anvil	Pistol	9,800	F: 625 (848) R: 700 (949)	50 – 600 (68 – 814)	4.4 (2.0)	9.34" (297)	24	3/8" (10)
2135QTi	1/2" square Quiet tool	Pistol	9,800	F: 625 (848) R: 700 (949)	50 – 600 (68 – 814)	4.05 (1.84)	7.34" (186)	24	3/8" (10)
2135QPti	1/2" square Quiet tool	Pistol	9,800	F: 625 (848) R: 700 (949)	50 – 600 (68 – 814)	4.05 (1.84)	7.34" (186)	24	3/8" (10)
231HA-2	1/2" square 2" extended anvil	Pistol	8,000	600 (816)	25 – 300 (34 – 407)	5.8 (2.76)	9.5" (241)	23	3/8" (10)
231C	1/2" square	Pistol	8,000	600 (816)	25 – 300 (34 – 407)	5.8 (2.63)	7.3" (185)	23	3/8" (10)
235	1/2" square	Pistol	9,500	375 (508)	25 – 230 (34 – 312)	5.42 (2.46)	7.75" (197)	17	3/8" (10)
232TGSL	1/2" square	Pistol	10,000	625 (847)	50 – 600 (68 – 814)	6 (2.72)	7.3" (185)	17	3/8" (10)

* 'P' denotes a pin-type socket retainer in drive sizes 3/8" - 1/2" and a through-hole socket retainer in drive sizes 3/4" and above

3/4" – 1-1/2" Industrial Impacttools™



2925P1

- ▶ 3/4 in. square drive
- ▶ Textured epoxy finish
- ▶ Corrode-X protects components from corrosion
- ▶ Twin hammer
- ▶ 3 position power regulation
- ▶ 360° swivel air inlet



3940B2Ti

- ▶ 1 in. square drive
- ▶ High efficiency 7-vane reverse bias motor
- ▶ Pressure-fed lubrication system
- ▶ Twin hammer mechanism
- ▶ Integral muffler
- ▶ Bronze endplates



2190Ti-6

- ▶ Revolutionary tire change handle designed specifically for high volume fleet service
- ▶ Now features improved anvil, bushing, and exhaust designs
- ▶ 6" extended anvil
- ▶ Ergonomically-designed handle and grip

MODEL*	Description	Handle	Free Speed rpm	Max Torque ft-lb (Nm)	Recomm. Torque Range ft-lb (Nm)	Weight lb (kg)	Length in (mm)	cfm	Recomm. Hose Size in (mm)
3/4" SUPER DUTY									
2925P1	3/4" square	Pistol	5,200	1,450 (1,966)	350 – 1,000 (476 – 1,496)	12.5 (5.7)	8.88" (225)	60	1/2" (13)
2925RBP1	3/4" square reverse bias	Pistol	5,200	F: 1,300 (1,763) R: 1,600 (2,169)	400 – 1,400 (542 – 1,898)	12.5 (5.7)	8.88" (225)	60	1/2" (13)
3/4" HEAVY DUTY									
1720P1	3/4" square	Pistol	5,500	1,000 (1,360)	200 – 600 (271 – 814)	11.88 (5.39)	7.63" (194)	40	1/2" (13)
3/4" MAINTENANCE DUTY									
2141P	3/4" square reverse bias	Pistol	7,250	F: 1,000 (1,356) R: 1,200 (1,627)	200 – 900 (271 – 1,220)	7.0 (3.2)	8.2" (208)	40	1/2" (13)
1" SUPER DUTY									
2925P3	1" square	Pistol	5,200	1,450 (1,966)	350 – 1,100 (475 – 1,492)	11.88 (5.39)	8.88" (225)	60	1/2" (13)
2925RBP3	1" square reverse bias	Pistol	5,200	F: 1,300 (1,763) R: 1,600 (2,169)	400 – 1,400 (407 – 1,763)	11.88 (5.39)	8.88" (225)	60	1/2" (13)
3940B2Ti	1" square reverse bias	Grip I.T.	6,000	F: 2,500 (3,390) R: 2,750 (3,730)	500 – 1,650 (680 – 2,240)	21.2 (9.6)	13.5" (343)	75	3/4" (19)
3940P2Ti	1" square reverse bias	Pistol	5,300	F: 2,500 (3,390) R: 2,750 (3,730)	500 – 1,650 (680 – 2,440)	20.4 (9.3)	10.1" (256)	75	3/4" (19)
3942B2Ti	1" square reverse bias	Grip I.T.	5,000	F: 2,750 (3,390) R: 3,251 (4,406)	1,000 – 1,950 (1,356 – 2,644)	22.6 (10.5)	14.3" (362)	95	3/4" (19)
1" HEAVY DUTY									
1712B2	1" square	Grip I.T.	6,000	1,400 (1,898)	450 – 1,000 (612 – 1,860)	18.25 (8.28)	11.25" (286)	47	3/4" (19)
1712P2	1" square	Pistol	6,000	1,350 (1,830)	450 – 1,000 (612 – 1,860)	18.25 (8.28)	11.25" (286)	56	3/4" (19)
1" MAINTENANCE DUTY									
2190Ti-6	1" square 6" extended anvil	Grip I.T.	6,800	1,650 (2,238)	150 – 1,200 (204 – 1,627)	16 (7.3)	21.48" (546)	58	1/2" (13)
285B-6	1" square 6" extended anvil	Grip I.T.	5,000	1,450 (1,972)	100 – 1,000 (136 – 1,360)	25.2 (11.43)	20.1" (511)	37	1/2" (13)
280-S-6	#5 splined 6" extended anvil	Grip I.T.	6,000	1,600 (2,176)	150 – 1,000 (204 – 1,360)	23.8 (10.80)	18.5" (470)	55	1/2" (13)
1-1/2" SUPER DUTY									
3955B2Ti	1-1/2" square reverse bias	Grip I.T.	2,750	F: 4,700 (6,372) R: 5,000 (6,779)	1,600 – 3,900 (2,169 – 5,288)	34.6 (15.7)	16.5" (419.1)	80	3/4" (19)

* 'P' denotes a pin-type socket retainer in drive sizes 3/8" - 1/2" and a through-hole socket retainer in drive sizes 3/4" and above.
IT = inside trigger OT = outside trigger

IQ^V Series Cordless Tools

D550

Cordless Drill / Driver

Weighing a mere 4.3 lb with a lithium-ion battery, the D550 drill / driver provides 550 in-lb of stall torque. Like its counterpart, the D650, this drill / driver also features a 17-position ball clutch for convenient over-tightening control.

- 550 in-lb ideal stall torque
- Lightweight — only 4.3 lb with lithium-ion battery 14.4 volts
- All-metal industrial ratchet lock chuck



D650

Cordless Drill / Driver

IQV Series cordless drill / drivers offer best-in-class weight, power, and feature an industrial-duty ratchet chuck that eliminates slipping bits, and is faster and easier to tighten. The D650 delivers 650 in-lb of stall torque, and weighs an impressive 4.5 lb with a lithium-ion battery.

- 650 in-lb ideal stall torque
- Lightweight — only 4.5 lb with lithium-ion battery 19.2 volts
- All-metal industrial ratchet lock chuck



Model	Ideal Stall Torque in-lb (Nm)	Speed rpm	Weight lb (kg)	NiCd Weight lb (kg)	Li-Ion Weight lb (kg)	Length in (cm)	Sound dBA	Voltage volts
D550	550 (62)	0 – 360 / 1,300	3 (1.4)	5.4 (3.3)	4.3 (1.9)	9.2" (23.3)	67 / 78	14.4
D650	650 (73)	0 – 360 / 1,300	3 (1.4)	7.2 (3.3)	4.5 (2)	9.2" (23.3)	67 / 78	19.2

R140

Cordless 1/4" Mini Ratchet

As with the R380 cordless ratchet, the R140 1/4" mini ratchet delivers impressive performance for its size — a mere 2.9 lb with a lithium-ion battery.

- Impressive mobility for hard-to-reach tasks
- 25 ft-lb of maximum torque
- Compatible with 7.2-volt IQV lithium-ion and nickel-cadmium batteries



R380

Cordless 3/8" Standard Ratchet

Ingersoll Rand IQV Series cordless ratchets deliver the perfect combination of power, durability, and convenience. At 70 ft-lb maximum torque, the R380 is more powerful than any other ratchet in its class.

- Proprietary motor control with variable speed
- Advanced head design — built with the proven 107XPA pneumatic ratchet head
- Compatible with all 14.4-volt IQV batteries including lithium-ion and nickel-cadmium



Model	Type	Size in	Voltage volts	Useable Torque Range ft-lb (Nm)	Max Torque ft-lb (Nm)	Free Speed rpm	Weight (tool only) lb (kg)	NiCd Weight lb (kg)	Li-Ion Weight lb (kg)	Length in (mm)	Switch Type	Sound dBA
R140	Mini	1/4" (7 – 34)	7.2	5 – 25	25 (34)	225	2 (0.9)	3.1 (1.4)	2.9 (1.3) speed	10.7" (272)	Variable	74.9
R145	Mini	3/8" (7 – 34)	7.2	5 – 25	25 (34)	225	2 (0.9)	3.1 (1.4)	2.9 (1.3) speed	10.7" (272)	Variable	74.9
R380	Standard	3/8" (14 – 81)	14.4	10 – 60	70 (94)	225	2.8 (1.3)	4.6 (2)	4.3 (1.9) speed	12.4" (315)	Variable	80.8
R385	Standard	1/2" (14 – 81)	14.4	10 – 60	70 (94)	225	2.8 (1.3)	4.6 (2)	4.3 (1.9) speed	12.4" (315)	Variable	80.8

TL10

High Intensity LED Task Light

The TL10 High Intensity LED Task Light utilizes state of the art LED technology to provide the highest quality, brightest light available. An onboard microprocessor allows the TL10 to work with all voltage and chemistry IQV batteries. Also, a highoutput LED bulb offers up 50,000 hours bulb life and up to 9.6 hours run time (BL192).

- IQV multi-voltage capability - works with all IQV batteries
- 160° pivoting, low-profile head provides lighting versatility
- High quality 4-Watt LED bulb lasts for up to 50,000 hours
- Drop-resistant housing design features chemical resistant composite materials



Model	7.2 Ni-Cd Weight lbs. (kg)	7.2 Li-Ion Weight lbs (kg)	14.4 Ni-Cd Weight lbs (kg)	14.4 Li-Ion Weight lbs (kg)	19.2 Ni-Cd Weight lbs (kg)	19.2 Li-Ion Weight lbs (kg)	Weight lbs (kg)	Length in (mm)	Voltages
TL10	.80 (.36)	1.8 (.82)	1.6 (.73)	2.6 (1.18)	2.1 (.95)	3.2 (1.45)	2.3 (1.04)	8.3 (211)	7.2, 14.4, or 19.2



W040

1/4" Cordless Impactool™

With its 40 ft-lb of maximum reverse torque, the W040 delivers the right amount of power for tasks involving small fasteners. Its industrial-grade quick change hex lets you change bits easily and enables bind-free operation.

- Lightweight and compact for easy access in confined spaces
- 40 ft-lb maximum reverse torque
- Lightweight — only 2.7 lb with lithium-ion battery

W150

3/8" Cordless Impactool

An optimized impact mechanism enables the W150 to deliver 150 ft-lb of maximum reverse torque with only 14.4 volts. Like its counterpart, the W360, this wrench features a steel-reinforced frame where tools are most vulnerable to drop damage.

- The most powerful and durable cordless impact in its class
- 150 ft-lb maximum reverse torque
- Lightweight — only 4.7 lb with lithium-ion battery

W360

1/2" Cordless Impactool

It's hard to believe the W360 is a cordless tool. At 360 ft-lb of maximum reverse torque, the W360 produces more power with less voltage, size, and weight than competitive models. For hard-hitting portability, this is the cordless impact to have in a toolbox.

- Pound-for-pound, the most powerful cordless impactool in the world
- 360 ft-lb maximum reverse torque
- Lightweight — only 6.2 lb with lithium-ion

Model	Max ft-lb (Nm)	Usable Torque ft-lb (Nm)	Torque Range rpm	Speed bpm	Weight lb (kg)	NiCd Weight lb (kg)	Li-Ion Weight lb (kg)	Weight in (cm)	Length dBA	Sound volts	Voltage Size	Drive Type
W040	40 (54)	1 - 32 (2 - 43)	0 - 2,200	0 - 2,500	1.8 (0.8)	2.9 (1.3)	2.7 (1.2)	7 (17.8)	90 / 101	7.2	1/4"	Quick Change
W040SQ	40 (54)	1 - 32 (2 - 43)	0 - 2,200	0 - 2,500	1.8 (0.8)	2.9 (1.3)	2.7 (1.2)	7 (17.8)	90 / 101	7.2	3/8"	Square
W040P	40 (54)	1 - 32 (2 - 43)	0 - 2,200	0 - 2,500	1.8 (0.8)	2.9 (1.3)	2.7 (1.2)	7 (17.8)	90 / 101	7.2	3/8"	Square - Pin
W150	150 (203)	25 - 130 (34 - 176)	0 - 2,200	0 - 3,000	3.2 (1.5)	5 (2.3)	4.7 (2.1)	8.2 (20.9)	90 / 101	14.4	3/8"	Square
W150QC	150 (203)	25 - 130 (34 - 176)	0 - 2,200	0 - 3,000	3.2 (1.5)	5 (2.3)	4.7 (2.1)	8.2 (20.9)	90 / 101	14.4	1/4"	Quick Change
W150P	150 (203)	25 - 130 (34 - 176)	0 - 2,200	0 - 3,000	3.2 (1.5)	5 (2.3)	4.7 (2.1)	8.2 (20.9)	90 / 101	14.4	3/8"	Square - Pin
W175	175 (237)	25 - 130 (34 - 176)	0 - 2,200	0 - 3,000	3.2 (1.5)	5 (2.3)	4.7 (2.1)	8.2 (20.9)	90 / 101	14.4	1/2"	Quick Change
W175P	175 (237)	25 - 130 (34 - 176)	0 - 2,200	0 - 3,000	3.2 (1.5)	5 (2.3)	4.7 (2.1)	8.2 (20.9)	90 / 101	14.4	1/2"	Square - Pin
W360	360 (488)	25 - 280 (33 - 379)	0 - 1,650	0 - 2,200	4.8 (2.2)	7.2 (3.3)	6.2 (2.8)	9 (22.8)	90 / 101	19.2	1/2"	Square
W360P	360 (488)	25 - 280 (33 - 379)	0 - 1,650	0 - 2,200	4.8 (2.2)	7.2 (3.3)	6.2 (2.8)	9 (22.8)	90 / 101	19.2	1/2"	Square - Pin
W360-2	360 (488)	25 - 280 (33 - 379)	0 - 1,650	0 - 2,200	4.8 (2.2)	7.2 (3.3)	6.2 (2.8)	9 (22.8)	90 / 101	19.2	1/2"	Square - 2" Extension

IQ^V Series Batteries and Chargers



The revolutionary IQ^V cordless power system features nickel-cadmium and lithium-ion batteries — available in 7.2-volt, 14.4-volt, and 19.2-volt capacities. All of our cordless tools are compatible with both battery chemistries. Our patented IQ^V Grip twist-to-lock battery mount design eliminates wear and tear common to other types of mount clips and slides.

Our digitally controlled BC-10 charger can be used with every one of our batteries. Once a battery is inserted into the charger, it automatically determines chemistry, voltage, and condition, thereby optimizing the charge process.

IQ^V TECHNOLOGY

Nickel-cadmium Batteries

Part Number	Description
N072	7.2-volt battery
N144	14.4-volt battery
N192	19.2-volt battery

Features and Benefits

- IQ^V microprocessor-controlled battery technology optimizes battery performance to make sure you get the most power out of every volt
- Renew feature to allow usage of the full 1,000 recharge life of nickel-cadmium IQ^V batteries
- Patented twist-to-lock technology firmly holds battery in place— never duct tape your battery to your tool again!

Lithium-ion Batteries

Part Number	Description
BL072	7.2-volt battery
BL144	14.4-volt battery
BL192	19.2-volt battery

Features and Benefits

- Industry-leading lithium-ion cell technology blows the competition away with over 1,000 real recharges
- Requiring only one cell to match the power in four nickel-cadmium / nickel-metal hydride cells, Ingersoll Rand lithium-ion batteries offer up to 35% less weight than the nickel-cadmium version
- Patented twist-to-lock technology firmly holds battery in place— never duct tape your battery to your tool again!

Battery Charger

Part Number	Description
BC10	Battery Charger

Features and Benefits

- Allows the charger to charge all IQ^V batteries including all voltages of nickel-cadmium and lithium-ion
- Fully charges most batteries in less than 45 minutes
- Renew feature deep-cycle charges nickel-cadmium batteries eliminating memory effect, restoring to like-new capacity

Battery Analyzer

Part Number	Description
BT-IQV	Battery analyzer

Features and Benefits

- Gives instant access to status information stored on IQ^V batteries for determining condition
- Easy connection to PC via USB and easy-to-use software
- Simple color-coded battery rating system



Socket Sets

Catalog Number	Description
3/8" DRIVE	
SK3H8	8-piece SAE (5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", metal tray)
SK3H8L	8-piece SAE deep (5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", metal tray)
SK3M8	8-piece metric (9 mm, 10 mm, 11 mm, 13 mm, 14 mm, 15 mm, 17 mm, 19 mm, metal tray)
SK3M8L	8-piece metric deep (9 mm, 10 mm, 11 mm, 13 mm, 14 mm, 15 mm, 17 mm, 19 mm, metal tray)
1/2" DRIVE	
SK4H13	13-piece SAE (7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1", 1-1/16", 1-1/8", 1-1/4", metal tray)
SK4H13L	13-piece SAE deep (7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1", 1-1/16", 1-1/8", 1-1/4", metal tray)
SK4M14	14-piece metric (10 mm, 11 mm, 12 mm, 13 mm, 14 mm, 15 mm, 16 mm, 17 mm, 18 mm, 19 mm, 21 mm, 22 mm, 26 mm, 27 mm, metal box)
SK4M14L	14-piece metric deep (10 mm, 11 mm, 12 mm, 13 mm, 14 mm, 15 mm, 16 mm, 17 mm, 18 mm, 19 mm, 21 mm, 22 mm, 26 mm, 27 mm, metal tray)
SK4C3F	3-piece lugnut service (3/4" x 3/16", 19 mm x 21 mm, 3" extension)
3/4" DRIVE	
SK6H8	8-piece SAE (1", 1-1/16", 1-1/8", 1-1/4", 1-5/16", 1-3/8", 1-7/16", 1-1/2", metal box)
SK6H8L	13-piece SAE deep (1", 1-1/16", 1-1/8", 1-1/4", 1-5/16", 1-3/8", 1-7/16", 1-1/2", metal box)
1" DRIVE	
SK8H8	8-piece SAE (7/8", 15/16", 1", 1-1/16", 1-1/8", 1-3/16", 1-1/4", 1-1/2", metal box)
SK8H8L	8-piece SAE deep (7/8", 15/16", 1", 1-1/16", 1-1/8", 1-3/16", 1-1/4", 1-1/2", metal box)
SK8H9T	9-piece SAE truck service (13/16" sq.; 7/8", 15/16", 1", 1-3/16", 1-1/2" hex; 1-1/16", 1-1/8", 1-1/4" deep thin wall hex, metal box)



Saws

- ▶ Grip handle with self-locking throttle to promote operator safety
- ▶ Rotatable exhaust deflector with muffler for quiet operation
- ▶ Heavy-duty thrust bearings for extended life
- ▶ Built-in lubricator



SRA010A1

MODEL	Strokes per minute	Length of Stroke in (mm)	Length Over Front of Saw Guide in (mm)	Weight lb (kg)	Side to Center Distance in (mm)	Maximum Power hp (kw)	Air Inlet Size NPT in (mm)	Size Hose Recomm. in (mm)	cfm
SRA010A1	1600	5/8" (16)	17-1/4" (438)	8-1/4 (3.7)	1-5/8" (41)	.65 (.48)	1/4" (6)	5/16" (8)	21

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

MODEL	Kit Contents
SRA010K2	SRA010A1Saw, 205885 Blade assortment kit, SRA010A1-4 Metal carrying case

Circular Saws

- ▶ Grip handle with self-locking throttle to promote operator safety
 - ▶ Exclusive self-regulating motor with patented controller for more power and less weight
 - ▶ Built-in lubricator
 - ▶ Depth gauge bracket with adjustment from 3/16" to 3" (5mm to 76mm)
 - ▶ 5/8" (16mm) diameter round hub 8-1/4" (210mm) diameter combination chisel tooth blade included
-
- ▶ Grip handle with self-locking throttle to promote operator safety
 - ▶ Exclusive self-regulating motor with patented controller for more power and less weight
 - ▶ Built-in lubricator
 - ▶ Depth gauge bracket with adjustment from 1-3/8" to 4-3/8" (35mm to 111mm)
 - ▶ Pin type blade flange 12" (305mm) diameter crosscut wood sawing blade included



S80



S120

Saw Accessories

Part Number	Description	For Use With
BLADES		
205885	Blade assortment for variety of materials (5 each 6" blades, 2 each 4" blades)	SRA010A1
B12-257R	12" (305mm) diameter crosscutwood sawing blade	S120
OTHER ACCESSORIES		
S12-A86	Abrasive blade flange kit	S120
S12-506	Depth gauge bracket for adjusting depth of cut from 0 to 4-3/8" (0 to 111mm) with 12" (305mm) blade	S120
SRA010A1-4	Metal carrying case	SRA010A1

MODEL	Free Speed rpm	Weight w/o Blade lb (kg)	Maximum Power hp (kw)	Speed at Max. Power rpm	Blade Diameter in (mm)	Arbor Hole Diameter in (mm)	Max. Depth of Cut in (mm)	Min. Depth of Vertical Cut in (mm)	cfm
S80	4000	14-1/2 (6.6)	2 (1.49)	2500	8-1/4" (210)	5/8" (16)	3" (76)	3/16" (5)	67
S120	2050	27-1/4 (12.4)	3.2 (2.4)	1400	12" (305)	1" (25)	4-3/8" (111)	1-3/8" (35)	93

MODEL	Size of Shoe in (mm)	Max. Depth of Cut at 45° Angle in (mm)	Max. Thickness of Material for 45° Cut in (mm)	Length in (mm)	Width in (mm)	Dist. from Blade to End of Motor Casing in (mm)	Dist. from Center of Blade to Front of Shoe in (mm)	NPT Air Inlet in	Size Hose Recomm. in (mm)
S80	7-7/8" x 12" (200 x 305)	2-1/2" (64)	1-3/4" (102)	13-3/4" (350)	8-3/4" (222)	5-7/8" (149)	1-7/8" (48)	1/2"	3/4" (19)
S120	8-1/2" x 18-1/2" (216 x 470)	4" (45)	2-7/8" (73)	19-7/8" (505)	10-5/16" (262)	8-5/16" (211)	8-5/16" (211)	1/2"	3/4" (19)

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

Large Drills



- Graduated roll throttle
- Ball bearing support for long life and efficient operation
- Heat treated aluminum housing that is high strength and lightweight

- Ball bearing support for long life and efficient operation
- Durable spur gearing
- Governed motor regulates air to the motor to keep drill working at peak of power curve

MODEL	Free Speed rpm	Capacity in Steel Drilling in (mm)	Capacity in Steel Reaming in (mm)	Spindle	Spindle Attachment	Length of Feed in (mm)	Weight lb (kg)	Height over Spindle in (mm)	Side to Center Distance in (mm)	cfm	Air Inlet Size in NPT	Recomm. Size Hose in (mm)
22JA1	1025	9/16" (14)	3/8" (10)	Stub Taper,	5/64-1/2" Th'ded	2-1/2" (63) Chuck	15 (6.8)	16-3/8" (416)	1-7/16" (36)	55	3/8"	1/2" (13)
22KA1	725	9/16" (14)	7/16" (11)	Stub Taper,	5/64-1/2" Th'ded	2-1/2" (63) Chuck	15-1/4 (6.92)	17-5/8" (448)	1-7/16" (36)	55	3/8"	1/2" (13)
22MA2	350	7/8" (22)	5/8" (16)	No. 2 Morse Taper	—	2-1/2" (63)	14-1/4 (6.46)	18-5/8" (473)	1-7/16" (36)	55	3/8"	1/2" (13)
22NA1	280	7/8" (22)	5/8" (16)	Stub Taper, Th'ded	5/8" Square Drive	2-1/2" (63)	16-1/2 (7.48)	20-3/8" (517)	1-7/16" (36)	55	3/8"	1/2" (13)
22KWA1	725	—	—	Stub Taper, Th'ded	1/2" Shank Wood	2-1/2" (63)	14-1/4 (6.46)	17-1/4" (438)	1-7/16" (36)	55	3/8"	1/2" (13)
33SJA	450	1" (25)	1-5/16" (24)	No. 3 Morse Taper	—	4-1/4" (108)	25-3/4 (11.7)	14" (355)	1-7/8" (47)	85	1/2"	3/4" (19)
33SKA	300	1-1/4" (32)	1" (25)	No. 3 Morse Taper	—	4-1/4" (108)	25-3/4 (11.7)	14" (355)	1-7/8" (47)	85	1/2"	3/4" (19)
33SMA	185	1-1/4" (32)	1-1/4" (32)	No. 3 Morse Taper	—	4-1/4" (108)	31 (14.1)	16-13/16" (427)	1-15/16" (49)	85	1/2"	3/4" (19)
44SMA	155	2" (51)	2" (51)	No. 4 Morse Taper	—	4-1/4" (108)	43-3/4 (19.8)	18-1/4" (463)	2-5/16" (59)	102	1/2"	3/4" (19)
551SMA	120	3" (76)	2-1/2" (64)	No. 5 Morse Taper	—	5" (127)	69 (31.3)	21-7/8" (556)	2-15/16" (75)	160	1"	1" (25)
551SOA	77	Heavy	Heavy	No. 5 Morse Taper	—	5" (127)	69-1/2 (31.5)	21-7/8" (556)	2-15/16" (75)	160	1/2"	1" (25)

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

Feed screw is ordered separately P/N T04-A3.

Series 33S and 44 Drills have 1/2" NPT air inlet; 3/4" (19 mm) size hose recommended.

Series 551 Drills have 1" NPT air inlet; 1" (25 mm) size hose recommended.

Large Drill Accessories

Part Number	Description	For Use With
SQUARE DRIVE SOCKET ADAPTER		
DE-215A	1/2" Square drive socket adapter	Series 22
CHUCKS & NUTS		
DE-99C	3-jaw key chuck	Series 22
T05-99A	3-jaw key chuck	Series 2X
T12-347	Chuck nut	Series 3S & 33S
TA-461	Nut	Series 551S
MORSE TAPER SOCKET		
DE-323A-2	#2 Morse Taper Socket	Series 22
WOOD BIT CHUCKS & ACCESSORIES		
K-27	Wood bit chuck wrench	Series 2X & 22
R33SW-151-1/2	Wood Bit Chuck	Series 3S
TA-A291	Wood bit chuck assembly	Series 551S
LARGE DRILL ACCESSORIES		
TC-365	Suspension ring	Series 3S & 33S
TC-461	Feed screw cover	Series 3S & 33S



Grinders and Surface Preparation Tools

G-Series

Engineered and built with Ingersoll Rand reliability and durability, the G-Series has the features operators want most including: Ergonomic D-shaped handle for operator comfort, one-nut access for easy motor servicing, and changeable front / rear exhaust for versatility.



G1H200FG4

- 0.4 hp motor
- Ideal for light material removal
- Low noise and vibration
- Air inlet is 1/4" NPT and recommended hose size is 3/8"



G2E135RP64

- 0.8 hp motor
- Great for general finishing work
- Extended-angle configuration
- Air inlet is 1/4" NPT and recommended hose size is 3/8"



G3A100RP106

- 1.35 hp motor
- Well equipped for heavier material removal
- Vibration-reducing handle
- Internal contamination-free air controller
- Air inlet is 3/8" NPT and recommended hose size is 1/2"

MODEL	Configuration	Power hp	Free Speed rpm	Exhaust	Output	Wheel Type	Weight lb (kg)	Overall Length in (mm)	Height Over Spindle End in (mm)	Airflow cfm
G-SERIES										
G1A200RG4	Horizontal	0.4	20,000	Rear	1/4" collet	N/A	1.1 (0.5)	6" (152)	3" (76)	25
G1H250RG4	Horizontal	0.4	25,000	Rear	1/4" collet	1	0.9 (0.4)	6-1/8" (155)	N/A	20
G2H250RG4	Horizontal	0.8	25,000	Rear	1/4" collet	N/A	1.6 (0.7)	7-3/8" (187)	N/A	36
G2H180RG4	Horizontal	0.8	18,000	Rear	1/4" collet	N/A	1.6 (0.7)	7-3/8" (187)	N/A	36
G2E135RP64	Extended angle	0.8	13,500	Rear	3/8" - 4" guard	27, 28	3 (1.3)	10-3/8" (263)	2-5/8" (66)	36
G3A120RP105	Angle	1.35	12,000	Rear	5/8" - 5" guard	27, 28	4.7 (2.1)	9-5/8" (244)	3-5/8" (92)	55
G3A120RP1045	Angle	1.35	12,000	Rear	5/8" - 4.5" guard	27, 28	4.6 (2)	9-5/8" (244)	3-5/8" (92)	55
G3A100RP106	Angle	1.35	10,000	Rear	5/8" - 6" guard	27, 28	4.9 (2.2)	9-5/8" (244)	3-5/8" (92)	33

Pro-Series™

Designed for the heaviest duty applications, the Pro-series grinders deliver superior performance by removing up to 25 percent more material while reducing air consumption by up to one-third over similar competitive models. The patented stainless-steel motor controller is maintenance-free with the industry's only lifetime guarantee.



77A60P109

- 1.5 hp motor
- Low-profile angle head for close-quarter applications
- Air inlet is 3/8" NPT and recommended hose size is 1/2"



88S60W107

- 2 hp motor
- 7" back-up pad
- Air inlet is 1/2" NPT and recommended hose size is 3/4"



99V60S106

- 3 hp motor
- Air inlet is 1/2" NPT and recommended hose size is 3/4"

MODEL	Configuration	Rated Power hp	Free Speed rpm	Standard Spindle	Weight lb (kg)	Model	Height Over end of Spindle in (mm)	Side-to-Center Dist. of Spindle in (mm)	cfm
PRO SERIES									
77A60P109	angle/depressed center wheel	1.5	6,000	5/8" -11 thd	9-3/16 (4.17)	9" guard	3-7/8" (98)	1-5/16" (33.4)	39
88V60P107	vertical/depressed center wheel	2.1	6,000	5/8" -11 thd	8-3/4 (3.97)	7" guard	6-3/32" (154.9)	2-1/8" (54.0)	61
88S60W107	vertical/sander-polisher	2.0	6,000	5/8" -11 thd	7-1/8 (3.23)	7" guard	6" (152.4)	2-1/8" (54.0)	61
99V60S106	vertical/cup wheel	3.0	6,000	5/8" -11 thd	10-3/4 (4.88)	6" guard	6-7/8" (174.6)	2-5/16" (58.7)	84
99V60P109	vertical/depressed center wheel	3.0	6,000	5/8" -11 thd	1-15/16 (.88)	9" guard	6-7/8" (174.6)	2-5/16" (58.7)	84

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

Type 27 and 28 Wheel Accessories

Description	Series 77A	Series 88V	Series 99V
6" type 6 or 11 cup wheel guard	N/A	88V60-A216	99V60-A216A
Piped-away exhaust kit	N/A	88V60-K184	99V60-K184
Wheel retaining screw wrench	88V-562	88V-562	88V-562
Controller wrench	77H-950	88V60-950	99V60-950
Comfort grips	N/A	CG-88V	CG-99V

**For use with Type 27 "Plain Hole" Depressed Center Wheels*

Type 6 and 11 Wheel Accessories

Description	Series 88V	Series 99V
7" type 27 wheel guard	88V60-106-7	99V77-106-7
9" type 27 wheel guard	88V60-106-9	99V60-106-9
7" and 9" type 27 wheel adapter kit*	R3F-AS337	R3F-AS337
Piped-away Exhaust Kit	88V60-K184	99V60-K184
Wheel retaining screw wrench	88V-562	88V-562
Controller wrench	88V60-950	99V60-950
Comfort grips	CG-88V	CG-99V

**For use with Type 27 "Plain Hole" Depressed Center Wheels*

Quick Change Backer Pads

Part Number	Description
02A-MEDPD	2" medium holder pad - 1/4" mandrel
03A-MEDPD	3" medium holder pad - 1/4" mandrel

Quick Change Surface Prep Discs

Part Number	Description
INDUSTRIAL PACKS (FLAP-TOP BOX)	
15A-CRSBR-50	1-1/2" Surface prep disc — coarse, brown
15A-MEDBR-50	1-1/2" Surface prep disc — medium, maroon
15A-VFNBR-50	1-1/2" Surface prep disc — very fine, blue
02A-CRSBR-50	2" Surface prep disc — coarse, brown
02A-MEDBR-50	2" Surface prep disc — medium, maroon
02A-VFNBR-50	2" Surface prep disc — very fine, blue
03A-CRSBR-25	3" Surface prep disc — coarse, brown
03A-MEDBR-25	3" Surface prep disc — medium, maroon
03A-VFNBR-25	3" Surface prep disc — very fine, blue
AUTOMOTIVE PACKS (SMALLER QUANTITY FLIP-TOP BOXES)	
02A-CRSBR-25	2" Surface prep disc — coarse, brown
02A-MEDBR-25	2" Surface prep disc — medium, maroon
02A-VFNBR-25	2" Surface prep disc — very fine, blue
03A-CRSBR-10	3" Surface prep disc — coarse, brown
03A-MEDBR-10	3" Surface prep disc — medium, maroon
03A-VFNBR-10	3" Surface prep disc — very fine, blue
02A-036AO-25	2" AO sanding disc - 36 grit
02A-050AO-25	2" AO sanding disc - 50 grit
03A-036AO-25	3" AO sanding disc - 36 grit
03A-050AO-25	3" AO sanding disc - 50 grit

Carbide Bur Kits

Part Number	Description	Contents
1438TIN	6-piece Carbide Bur Kit	6-TIN coated carbide burs — 1/4" shank with assorted 3/8" head diameter burs with soft sided case
614TIN	6-piece Carbide Bur Kit	6-TIN coated carbide burs — 1/4" shank with assorted 1/2" & 3/8" head diameter burs with soft sided case
1412TIN	6-piece Carbide Bur Kit	6-TIN coated carbide burs — 1/4" shank with assorted 1/2" head diameter burs with soft sided case
814TIN	8-piece Carbide Bur Kit	8-TIN coated carbide burs — 1/4" shank with assorted 1/2" & 3/8" head diameter burs includes hard case

For more accessories, please visit www.irtools.com



Needle and Chisel Scalers

Needle Scalers



- Adjustable needle housing
- Precision heat-treated needles for maximum performance
- Available in both inline and pistol grip configurations

Chisel Scalers



- Long nozzle section extends retainer life and permits the use of a variety of accessories
- Strengthened head block holds up under the most extreme conditions
- Available in both inline, pistol grip, and swan neck configurations

MODEL	Handle Description	Stroke in (mm)	Bore in (mm)	Weight lb (kg)	Length in (mm)	bpm	cfm	Inlet Size NPT in	Recomm. Hose Size in (mm)
NEEDLE SCALERS									
172LNA1	Inline	9/16" (14)	15/16" (24)	2.14 (2.38)	13-3/4" (349)	5,500	12	1/4"	5/16" (8)
182LNA1	Inline	1-1/16" (27)	15/16" (24)	2.75 (2.61)	15" (381)	4,000	13	1/4"	5/16" (8)
170PG	Pistol Grip	1.4" (35.6)	0.925" (23.5)	6.62 (3.00)	12.4" (3.15)	3,000	5.5	1/4"	5/16" (8)
180PG	Pistol Grip	1.54" (39.1)	1.125" (28.6)	8.88 (4.03)	13.5" (3.43)	2,200	8	1/4"	5/16" (8)
CHISEL SCALERS									
172L	Inline	9/16" (14)	15/16" (24)	3.69 (1.69)	7-5/8" (194)	5,500	12	1/4"	5/16" (8)
182G	Swan Neck	1-1/16" (27)	15/16" (24)	5.31 (2.41)	12-13/16" (325)	4,000	13	1/4"	5/16" (8)
182L	Inline	1-1/16" (27)	15/16" (24)	4.06 (1.84)	9" (229)	4,000	13	1/4"	5/16" (8)

* 5/8" hex is optional for 180PG-CS



182K1

MODEL	Kit Contents
Scaler Kits	
182K1	182L Scaler, NS11A 5" needle housings, NS11-22-19 5" replacement needles, NS11-122-19 7" replacement needles, WF-14F-7 7" flat scaling chisel, WF-14A-6-1/8 6-1/8" angle scaling chisel, WF-14B-6-1/8 6-1/8" straight scaling chisel
170PG-CS	170PG needle scaler, the 1/2" shank chisel holder, 3 needle packs and 3 chisels. Needles included are one pack each of chisel tip, pointed tip, and flat tip 3 mm needles. There are 19 needles per pack. The needles are 7" long and made of carbon steel. The chisels included are one each of the following 1/2" square, 7" long chisels: a 3/4" flat, a 1-3/8" offset (weld flux), and a 2" flat chisel
180PG-CS	180PG needle scaler, the 1/2" shank chisel holder, 3 needle packs and 3 chisels. Needles included are one pack each of chisel tip, pointed tip, and flat tip 3 mm needles. There are 28 needles per pack. The needles are 7" long and made of carbon steel. The chisels included are one each of the following 1/2" square, 7" long chisels: a 3/4" flat, a 1-3/8" offset (weld flux), and a 2" flat chisel

Scaler Accessories

Scaler Needles

Part Number	Tip	Length	Product	Quantity
2 MM				
22038525	Flat	7"	Carbon Steel	100
3 MM				
NS11-22-19	Flat	5"	Carbon Steel	19
NS11-B22-19	Flat	5"	Beryllium Copper	19
NS11-S22-19	Flat	5"	Stainless Steel	19
NS11-122-19	Flat	7"	Carbon Steel	19
22038533	Flat	5"	Carbon Steel	100
89940597	Flat	7"	Carbon Steel	100
22038541	Flat	7"	Carbon Steel	1000
22038558	Flat	7"	Beryllium Copper	100
22038566	Flat	7"	Beryllium Copper	500
22038574	Chisel	7"	Carbon Steel	100
22038582	Chisel	7"	Carbon Steel	1000
22038590	Pointed	7"	Carbon Steel	100
22038608	Pointed	7"	Carbon Steel	1000
4 MM				
22038616	Flat	7"	Carbon Steel	100
22038624	Flat	7"	Carbon Steel	500
22038632	Chisel	7"	Carbon Steel	100
22038640	Chisel	7"	Carbon Steel	500
22038657	Pointed	7"	Carbon Steel	100
22038665	Pointed	7"	Carbon Steel	500

Needle Holder* for Pistol Grip Scalers

Part Number	Designed for Model
2 MM	
22038194	170PG
22038202	180PG
4 MM	
22038210	180PG

* Does not include needles



Needle Housings for Inline Scalers

Round Needle Housings	With	Designed for Model
NS11A	5" (127 mm) steel needles	172L, 182L, 182G
NS11AS	5" (127 mm) stainless steel needles	172L, 182L, 182G
NS11A7	7" (178 mm) extended steel needles	172L, 182L, 182G
Rectangular Needle Housings With		
NS11BB	5" (127 mm) beryllium copper needles	172L, 182L, 182G
NS11BS	5" (127 mm) stainless steel needles	172L, 182L, 182G
NS11B7	7" (178 mm) extended steel needles	172L, 182L, 182G

Scaler Chisels (1/2" Square Shank)

Part Number	Type	Overall Length	Blade Width
89940613	Straight Scaling	7"	2"
22038749	Straight Scaling	7"	3"
22038756	Straight Scaling (Spark Resistant)	7"	2"
WF-14F-7	Flat Scaling	7"	3/4"
WF-14-007	Blank	7"	N/A
WF-14G-6	Gouge	6"	5/8"
WF-14B-007	Scaling Chisel	7"	1-3/8"
WF-14B-0012	Scaling Chisel	12"	1-3/8"
WF-14A-007	Angle Chisel	7"	1-3/8"
WF-14A-12	Angle Chisel	12"	1-3/8"
WF-14C-007	Wide Chisel	7"	2"
WF-14C-012	Wide Chisel	12"	2"
WF-14D-007	Wide Chisel	7"	3"
WF-14D-012	Wide Chisel	12"	3"
WF-14G-6	Wide Chisel	6"	5/8"

For our complete offering of scaler needles, chisels, & accessories please see Ingersoll Rand Construction Tool Steels & Accessories catalog: Form IRPS-0407-006.

De-Watering Pumps

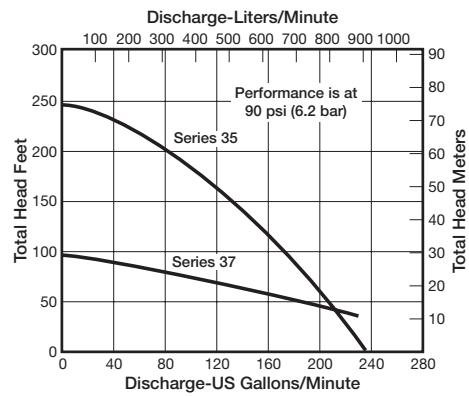
- Simple design
- Few moving parts
- Direct-drive multi-vane air motor
- Self-priming
- Patented speed controller
- Closed-type impeller
- Basket style inlet strainer cover
- Available in 2 in. and 2-1/2 in. discharge



P237A1-EU

- Simple design
- Patented no-stall operation
- Ice-free operation
- Available in 1-1/2 in., 2 in. and 3 in. discharge

Flow Chart (Centrifugal)



Centrifugal

MODEL	Height in (mm)	Weight lb (kg)	Opening Pump Will Pass Through in (mm)	Discharge Pipe Tap NPT in	Air Inlet Size		Exhaust Size		Max. Flow Gallons/Liters	
					Pipe Tap NPT in	Rec. Hose in (mm)	Pipe Tap NPT in	Rec. Hose in (mm)		
P237A1-EU	17-5/8" (448)	48 (21.8)	8-3/4" x 8-3/4" (222 x 222)	2-1/2"	3/4"	3/4" (19)	1-1/4"	1-1/4" (32)	100	See flow Curve
P35A1-EU	22-1/2" (570)	79 (36)	8-7/16" x 14-1/16" (214 x 357)	2"	1"	1" (25)	1-1/4"	1-1/4" (32)	160	See flow Curve

Hoists and Winches



Pullers	37
Lever and Manual Chain Hoists	38
VL2 "Premium" Series Manual Chain Hoists	39
Winches	40
BC Series Beam Clamp	42

Pullers

- 4:1 design factor. Meets ASME B30.21.
- Handle and frame are heavy gauge steel with rivet construction and slip-resistant grip. All steel parts are plated for years of useful life.
- Exclusive long life “buttress tooth” cast gear design has no laminated plates to separate or wear and provides maximum strength.
- Sturdy steel drive and holding pawls have long life, stainless steel springs. Pivot points are hardened steel.
- Safety latch hooks are drop forged steel, heat treated and plated for corrosion resistance. Top hook rotates 360° for easy operation.
- Cast-aluminum drum has a “through-the-drum” anchor, larger diameter and a drum guard. This means the wire rope won’t come loose, bends less so it lasts longer and spools evenly while rewinding.
- Galvanized aircraft quality wire rope is preformed to prevent kinks.
- One year warranty.

MODEL	Number of Lines	Rated Cap. Lifting 4:1 lbs	Min. Dist. Btwn Hooks in	Lifting Distance ft	Cable Diameter in	Number of Hooks	Net Weight lbs
P15H	Single	1000	19-1/2"	15'	3/16"	2	8
P15D3H	Single	1000	21"	15'	3/16"	3	10
	Double	2000	27-1/2"	7-1/2'	3/16"	3	10



P15D3H

- 4:1 design factor lifting, lowering and pulling. Meets ASME B30.21.
- Lightweight aluminum frame.
- Alloy steel load hook with safety latches.
- One piece cast aluminum drum.
- Buttress tooth design improves load gear life.
- Solid steel drive and holding dog, not laminated plates.
- Galvanized aircraft quality wire rope.
- Ratchet and pawl system provides safe, “one notch at a time” lowering.
- Large drum stores up to 38 feet of wire rope.
- Cable guide and shield protects wire rope and spools cable evenly on drum.
- Reversible handle changes position easily, so pull is always possible in the right direction against the load.
- Plated external parts for corrosion resistance.
- Three hooks allow a 2 ton capacity and a 6 foot pull with a double line, and a 1 ton capacity with a 12 foot pull using a single line.
- Non-conductive, corrosion resistant, high strength synthetic strap will not kink or bind.
- Easy pay out of strap for fast set-up.

MODEL	Number of lines	Rated Cap. Lifting 4:1 lbs	Min. Dist. Btwn Hooks in	Lifting Distance ft	Cable Diameter in	Number of Hooks	Net Weight lbs
C400H	Single	1700	17"	20'	1/4"	2	16
	Double	3400	22"	10'	1/4"	3	16
C400S	Single	2000	17"	12'	3/32" x 1-7/8"	2	16
	Double	4000	22"	6'	3/32" x 1-7/8"	3	16



C400S



C400H

Lever and Manual Chain Hoists

- All steel construction.
- 360° handle rotation.
- Rubber handle grip in all sizes.
- Reliable disc brake.
- Premium grade 100 alloy load chain.
- Hardened swivel-latch hooks.
- Light weight.
- Low handle force.
- Short handle stroke.
- Standard lifts of 5, 10, 15, and 20 feet. Longer lifts available.



SLB150

Specifications

MODEL	Capacity metric tons (lbs)	Pull to Lift Rated Load lbs	Net wt of Chain per ft of Lift lbs	Number of Chain Falls	Load Chain Size mm	Ship wt w/5 ft of Lift lbs	Minimum Head Room
SLB150	3/4 (1650)	41	0.53	1	6.0 x 18.0	15.5	12.6
SLB200	1 (2200)	60	0.53	1	6.0 x 18.0	15.4	13
SLB300	1-1/2 (3300)	53	11.73	1	7.1 x 21.2	24.3	14.8
SLB600	3 (6600)	53	1.48	1	10.0 x 30.0	44.1	18.7
SLB1200	6 (13200)	57	2.95	2	10.0 x 30.0	67.1	24.0

Part Number Configuration

Model Number	-	Lift Length	5 = 5 ft 10 = 10 ft 15 = 15 ft 20 = 20 ft XX = user specified
SLB150	-	X	

- Overload Protection to deter and reduce downtime and repair costs resulting from abuse.
- All steel, low headroom, light weight construction.
- Self-adjusting disc type double pawl mechanical load brake.
- Hardened roller bearings for maximum efficiency and durability.
- Improved 4 layer finish of nickel, copper, nickel, and chrome complementing our Silver Series lever hoist companion product.
- Ideally suited for the Rental and Construction markets.
- Standard lift is 10 feet, hand chain drop is 2 feet less than lift (unless specified).



SMB010

Specifications

MODEL	Capacity metric tons (lbs)	Pull to Lift Rated Load lbs	Chain O'hauled to Lift Load 1 ft	Net wt of Chain per ft of Lift lbs	Number of Chain Falls	Load Chain Size mm	Ship wt w/10 ft Lift lbs	Minimum Head Room in
SMB005	1/2 (1100)	48	25	.55	1	6.3 x 18	18	11.6"
SMB010	1 (2200)	75	39	.55	1	6.3 x 18	26	13.0"
SMB015	1-1/2 (3300)	84	58	.80	1	8.0 x 24	39	16.1"
SMB020	2 (4400)	81	75	1.10	2	6.3 x 19	35	17.7"
SMB030	3 (6600)	90	116	1.60	2	8.0 x 24	55	20.7"
SMB050	5 (11000)	97	187	1.40	2	10.0 x 30	86	24.0"

Part Number Configuration

Model Number	-	Lift Length	-	Hand Chain Drop V	8 V= 8 ft 13V = 13 ft 18V = 18 ft XX = user specified
SMB005	-	X	-	X	10 = 10 ft 15 = 15 ft 20 = 20 ft XX = user specified

VL2 "Premium" Series Manual Chain Hoists

- "Accu-Feed™" hand chain guide articulates for smooth operation and allows for operation from either side away from load being lifted.
- All steel construction for external impact resistance.
- Forged steel alloy load hooks with nonslip design have extra wide throat openings for easy rigging.
- Premium alloy steel grade 100 load chain.
- Thrust bearing bottom block on 3 ton and above helps prevent chain twisting or kinking.
- Chain anchor prevents jamming at the hook's lowest position.
- Needle bearings reduce friction and provide low hand chain pull.
- Overload Protection to deter and reduce downtime and repair costs resulting from abuse.
- Available in standard lifts of 10, 15 and 20 feet. Hand chain is 2 feet less than lift.

Options

- Spark and corrosion resistant models.
- Spark and corrosion resistant load and hand chain.
- Non-standard lifts.
- Chain buckets.
- Protective coatings.

Nylon bushed VL2 hoist hand chain guide. Zinc plated hand chain shown



VL2-010

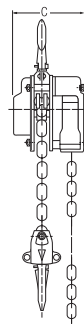
Specifications

MODEL	Capacity metric tons (lbs)	Pull to Lift Rated Load lbs	Chain O'hauled to Lift Load 1 ft	Net wt of Chain per ft of Lift lbs	No. of Chain Falls	Load Chain Size mm	Ship wt w/ 10 ft of Lift lbs
VL2-005	1/2 (1100)	55	25	.356	1	5.0 x 15.0	20
VL2-010	1 (2200)	73	28	.569	1	6.3 x 19.2	26
VL2-015	1-1/2 (3300)	74	57	.744	1	7.1 x 21.2	45
VL2-020	2 (4400)	76	73	1.030	1	8.0 x 24.2	50
VL2-030	3 (6600)	76	112	1.488	2	7.1 x 21.2	52
VL2-050	5 (11000)	85	181	2.38	2	9.0 x 27.2	94
VL2-080	8 (17600)	90	272	3.57	3	9.0 x 27.2	150
VL2-100	10 (22000)	90	362	4.76	4	9.0 x 27.2	188
VL2-150	15 (33000)	2 x 90	2 x 272	7.14	6	9.0 x 27.2	395
VL2-200	20 (44000)	2 x 90	2 x 362	9.52	8	9.0 x 27.2	485

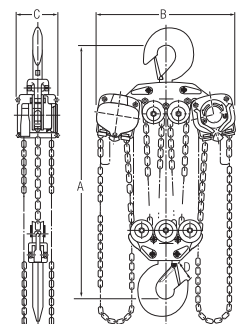
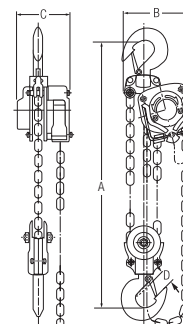
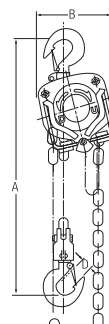
Dimensions

Base MODEL	A (min)	B	C	D
VL2-005	12	5-11/16	5	1-1/16
VL2-010	13-5/8	6-3/16	5-13/16	13/16
VL2-015	14-5/8	6-7/8	5-13/16	1-11/32
VL2-020	16-3/4	8	7-1/16	1-15/32
VL2-030	19-7/8	8-7/8	5-13/16	11-9/32
VL2-050	25	10-3/8	7-1/16	1-7/8
VL2-080	29-1/8	13-5/8	7-1/16	2-5/8
VL2-100	29-15/16	14-7/16	7-1/16	2-5/8
VL2-150	33-1/2	29-3/8	8-3/16	3-7/16
VL2-200	34-1/4	34-3/8	8-3/16	3-7/16

Dimensions are in inches.



1/2 through 2 tons



15 and 20 tons

Part Number Configuration

Model Number	-	Lift Length	-	Hand Chain Drop V	
VL2-005	-	X	-	X	10 = 10 ft 15 = 15 ft 20 = 20 ft XX = user specified
					8 V = 8 ft 13V = 13 ft 18V = 18 ft XX = user specified

Winches

- Ideal in hot, dirty, wet environments.
- Run cool and can be stalled without damage.
- Throttles vary pressure and flow for excellent speed and load control.
- Disengaging clutches on select models allow free spooling of unloaded wire rope.



BU7A



PS2400RGC-L

Utility air winch series quick selection guide

Utility MODEL	ASME B30.7 Allowable rated line pulls w/Design Factor (DF)		Maximum Stall Pull lbs	Rated Lift Capacity at kg	Clutch	Standard Cable Pay Out
	Lifting (5:1 DF) lbs (kg)	Pulling (3:5:1 DF) lbs(kg)				
BU7A ³	1000 (454)	1200 (545)	1950 (886)	Mid layer	Standard	Overwound
PS2-1000R ³	1320 (600)	2200 (1000)	2475 (1125)	First layer	Standard	Overwound
EU ³	2000 (909)	2855 (1298)	4500 (2045)	Mid layer	Standard	Overwound
PS2400R ³	3300 (1500)	5280 (2400)	4500 (2045)	First layer	Standard	Underwound
FA2B	4000 (1818)	4000 (1818)	6800 (3084)	Mid layer	Option	Overwound
FA2BMR ⁴	2500 (1136)	4000 (1818)	6800 (3084)	Mid layer	Option	Overwound
FA5A	10000 (4545)	14285 (6493)	17000 (7727)	Mid layer	Option	Overwound

Specifications

Air Winch Series	Lifting Capacity lbs ¹ (kg ¹)	Line Speed fpm (m/min)	Recomm. Rope Size ²		Drum Root Diameter in (mm)	Motor hp	Average Required scfm (m ³ /min)	Pipe Inlet Size in	Hose Size Diameter in	Rope Anchor Hole	Recomm. IR Portable Compressor
			15:1 in (mm)	18:1 in (mm)							
BU7A ³	1000 (455)	43 (13)	1/4" (6.5)	1/4" (6.5)	4-1/2" (114)	1.6	50 (1.4)	1/2"	3/4"	11/32 in.	P185
PS2-1000R ³	-	15 (4.6)	1/4" (6.5)	5/16" (8)	5-1/2" (140)	2	78 (2.2)	1/2"	3/4"	3/8 in.	P185
EU ³	2000 (909)	55 (17)	3/8" (10)	3/8" (10)	6" (152)	4.4	100 (2.8)	3/4"	1"	9/16 in.	P185
PS2400R ³	-	12 (3.7)	3/8" (10)	3/8" (10)	7-3/32" (180)	3.3	125 (3.5)	3/4"	3/4"	10mm	P185
FA2B	4000 (1818)	122 (37)	5/8" (16)	1/2" (13)	9-1/4" (235)	16	350 (9.9)	1-1/4"	1-1/4"	5/8 in.	P185, P250
FA2BMR ⁴	2500 (1136)	168 (51)	5/8" (16)	1/2" (13)	9-1/4" (235)	15	380 (10.8)	1-1/4"	1-1/2"	5/8 in.	P185, P250
FA5A	10000 (4545)	60 (18)	7/8" (22)	3/4" (19)	12-3/4" (324)	25	700 (20.0)	1-1/4"	1-1/2"	3/4 in.	P375, P600

1. Lifting capacity rating complies with ASME B30.7 for base mounted drum hoists. Provides 5:1 design factor based on the rated line pull for lifting.
2. Extra improved plow steel IWRC wire rope.
3. The BU7A, EU, PS1000R and PS2400R are fitted as standard with a free spool clutch. These winches can be used for lifting at the capacity shown to maintain 5:1 DF only in those countries that allow it, eg, USA.
4. Design factor (DF) 8:1.

Wire rope selection

Rope Size in (mm)	Breaking Strength lbs ¹ (kg ¹)	Weight lbs / ft (kg/m)	Recomm. Safe Pulling 3.5:1 ² lbs (kg)	Working Loads Lifting/Lowering 5:1 ² lbs (kg)
1/4" (6)	5880 (2672)	0.11 (.16)	1680 (764)	1176 (534)
5/16" (8)	9160 (4163)	0.18 (.27)	2616 (1189)	1832 (833)
3/8" (9)	13120 (5963)	0.26 (.39)	3748 (1704)	2624 (1193)
7/16" (12)	17780 (8081)	0.35 (.52)	5080 (2309)	3556 (1616)
1/2" (13)	23000 (10454)	0.46 (.69)	6570 (2986)	4600 (2091)
5/8" (15)	35800 (16271)	0.72 (1.07)	10228 (4649)	7160 (3255)
3/4" (19)	51200 (23270)	1.04 (1.55)	14628 (6649)	10240 (4655)
7/8" (22)	69200 (31451)	1.42 (2.12)	19771 (8987)	13840 (6291)
1" (25)	89800 (40814)	1.85 (2.76)	25657 (11662)	17960 (8164)
1-1/8" (28)	113000 (51359)	2.34 (3.49)	32286 (14675)	22600 (10273)

- Based on improved plow steel wire rope with independent wire rope core.
- Regarding ropes, ASME B30.7 requires a minimum of 3.5:1 design factor with 15:1 rope pitch diameter to drum diameter for most winching applications. For lifting and lowering a 5:1 design factor with an 18:1 rope pitch diameter to drum diameter is required.

Kits and Accessories

MODEL	Drum Guard	Air Strainer	Lubricator	Muffler ¹
BU7A	BU7A-K298A	EU-A267 (3/4")	L30-06-000	50592
EU	EU-K298A	EU-A267 (3/4")	L30-06-000	50592
PS2-1000RGC-L	7618-0059	EU-A267 (3/4")	L30-06-000	Built-in
PS2400RGC-L	76310027	EU-A267 (3/4")	L30-06-000	Built-in
FA2B-LMX1	26317-3	K4U-A267AT (1 1/4")	L40-OB-G00 (1 1/2")	71297469
FA2BMR	26317-3	K4U-A267AT (1 1/4")	L40-OB-G00 (1 1/2")	71297469
FA5A-LMX1	23507	ST900-267-24 (1 1/2")	L40-OB-G00 (1 1/2")	71297469

- Customer Supplies Fittings
- For assembled drum guard add "C" to the end of model code

Drum wire rope storage capacities

MODEL	Capacity lbs (kg)	Max Length on Winch (tightly wound)						
		1/4" ft (m)	5/16" ft (m)	3/8" ft (m)	7/16" ft (m)	1/2" ft (m)	5/8" ft (m)	3/4" ft (m)
BU7A	1000 (454)	228 (70)	132 (40)	—	—	—	—	—
PS2-1000RGC-L	1320 (600)	600 (183)	335 (102)	—	—	—	—	—
EU	2000 (909)	—	339 (108)	220 (67)	164 (50)	—	—	—
PS2400RGC-L	3300 (1500)	—	593 (181)	394 (120)	—	—	—	—
FA2B-LMX1	4000 (1818)	—	—	1758 (536)	1371 (418)	1068 (326)	625 (191)	—
FA2BMR	2500 (1136)	—	—	1758 (536)	1371 (418)	1068 (326)	625 (191)	—
FA5A-LMX1	10000 (4545)	—	—	—	—	—	1833 (559)	1200 (366)



FA5A-LMX1

BC Series Beam Clamp

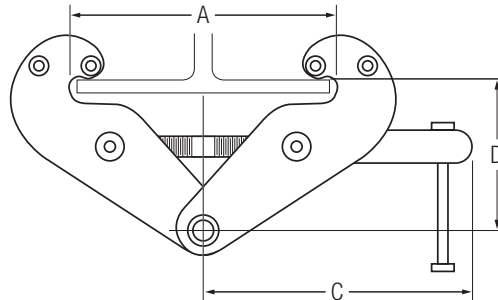
1 – 10 metric ton Capacity

- Quick installation by hand.
- Low headroom design adjust to fit a wide range of flat or tapered beams.
- Meets ASME B30.16 for use with powered or manual hoists.
- Each unit is serialized, supplied with a test certificate and manual.
- Metric rated for vertical lifting at 2200 lbs per ton.

Specifications and dimensions

MODEL	Capacity metric tons	Weight lbs	Beam Width A	B	C	D	E	F
BC-1	1	4	2-15/16 - 9-1/16	3--3/16	8-3/4	4 - 6-5/16	1-1/8	13/16
BC-2	2	5	2-15/16 - 9-1/16	3-5/8	8-3/4	4 - 6-5/16	1-1/8	7/8
BC-3	3	9	3-5/32 - 12-5/8	4-5/8	10-3/4	6-5/8 - 9-1/2	2-7/16	15/16
BC-5	5	11	3-9/16 - 12-5/8	4-13/16	10-3/4	6-5/8 - 9-1/2	2-3/8	13/16
BC-10	10	11	3-9/16 - 14-3/8	5-15/16	11-1/64	6-11/16 - 9-1/4	1-31/32	1-37/64

Dimensions are in in.



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