

Construction Tools

- ▶ Air and Electric Pavement Breakers
- ▶ Diggers
- ▶ Jackhammers/Rockdrills
- ▶ Rivet Busters and Chipping Hammers
- ▶ Backfill Tampers and Sand Rammers
- ▶ Spike Drivers and Tie Tampers
- ▶ Air Saws and Construction Drills
- ▶ Full Line of Steel, Chisels and Retainers

Proven Source. Proven Solutions.

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Pneumatic & Hydraulic Tool Distributor

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IR Ingersoll Rand®
www.irtools.com

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 job-site 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 monuments like 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 the industry standards. Our pavement breakers and diggers deliver more power with fewer parts and easier maintenance than competitive tools, covering every weight class up to 90 pounds, and including a full selection of accessories.

Construction Tools



Our line of jackhammers, rock drills, rivet busters, and chipping hammers deliver superior power and speed in a variety of configurations to suit operator preferences and specific applications. IR tampers, rammers, spike drivers and tie tampers feature proven designs for minimal maintenance. Plus, our vibe-reduced demolition tools incorporate Vibrasmooth™ technology to absorb impact reaction before it reaches the operator, for a new level of ergonomics and comfort.

As a full-line tool and equipment provider, IR can also offer service and maintenance tools such as impact wrenches, surface preparation tools, drills, pumps, and saws for turnaround contractors, as well as pullers, hoists, and winches for related material handling tasks.

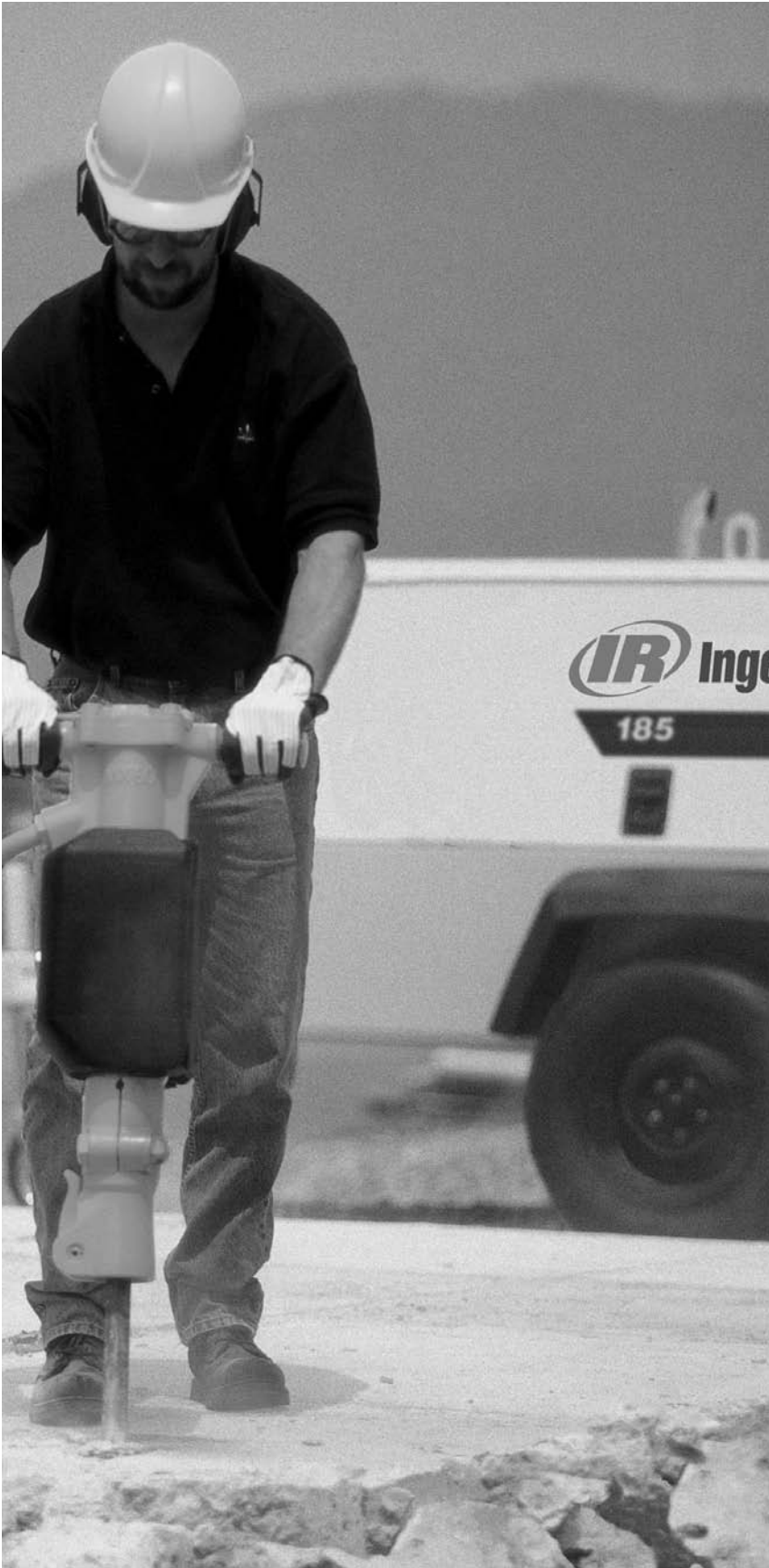
We complete the picture with merchandisers for effective product presentation in sales or rental facilities, popular accessories for each product type, and powerful examples from the extensive portable compressor line.

Ingersoll-Rand is breaking new ground with solutions for the job site, backed by a unique heritage, proven performance, and strong support.



Proudly supporting the following associations:





Ingersoll-Rand features a full line of pavement breakers that offer more power and fewer parts than many of the competitive models. These units have been specifically designed in an effort to both improve productivity, by increasing power, and cut costs by reducing parts and costly wear items.

In the 35 lb and 50 lb class, IR's "PB" series of breakers features a single housing design, that eliminates the need for high maintenance items such as side rods and springs, which can cost over \$200 when they break. These units also feature a power-stroke piston that directly impacts the steel accessory, increasing the impact energy and eliminating the need for another costly wear item, the anvil block.

To further reduce contracting costs, both of these models also have many interchangeable parts which eliminates the need to carry excess inventory for a contractor.

In the 60 lb and 90 lb class, IR's "MX" series of breakers also offers a host of category leading features designed to improve productivity and reduce costs over older conventional breakers. In particular, the "MX" breakers offer the following features: an adjustable exhaust that eliminates dust blow back in tight areas; a non-metallic valve cartridge to eliminate rust; a patented non-pressed, spring loaded anvil bushing that improves control and allows the bushing to be serviced without the need for a hydraulic press.

Similar to the smaller units, the MX60 and MX90 have a built in lubricator, power stroke piston, one piece housing design, and interchangeable parts in an effort to reduce costly wear items and improve productivity. Lastly, all the units feature a latch type front-head that is foot operated for rapid steel changing.

Construction Tools Pavement Breakers

High wear items such as these side rods, springs, and anvil blocks can cost you over \$200 when they break . . .

That's why IR pavement breakers don't have them! In fact, IR breakers have 30% less parts and wear items than conventional breakers.



Competitive brand breaker



30% Fewer Parts

Ingersoll-Rand 60 and 90 lb Breaker

Advantages, Inside and Out:

State-of-the-art *composite materials* are used to eliminate rust and to ensure consistent performance of valve and throttle.

Internal lubricator:

For continuous tool protection.

Drop-in valve cartridge:

Simplifies maintenance and reduces overall operating cost.

Power-Strok™ piston cycle:

Transfers blow energy directly to the tool improving productivity

One-piece breaker housing:

Eliminates the need for side rods and springs. Fewer parts mean lower operating cost.

Four-bolt backhead:

Contoured to fit the operator's leg, and is easily removed for routine maintenance.

Ergonomically designed:

Handles, grips, throttle lever, and breaker housing provide maximum operator comfort and productivity.

Variable exhaust deflector:

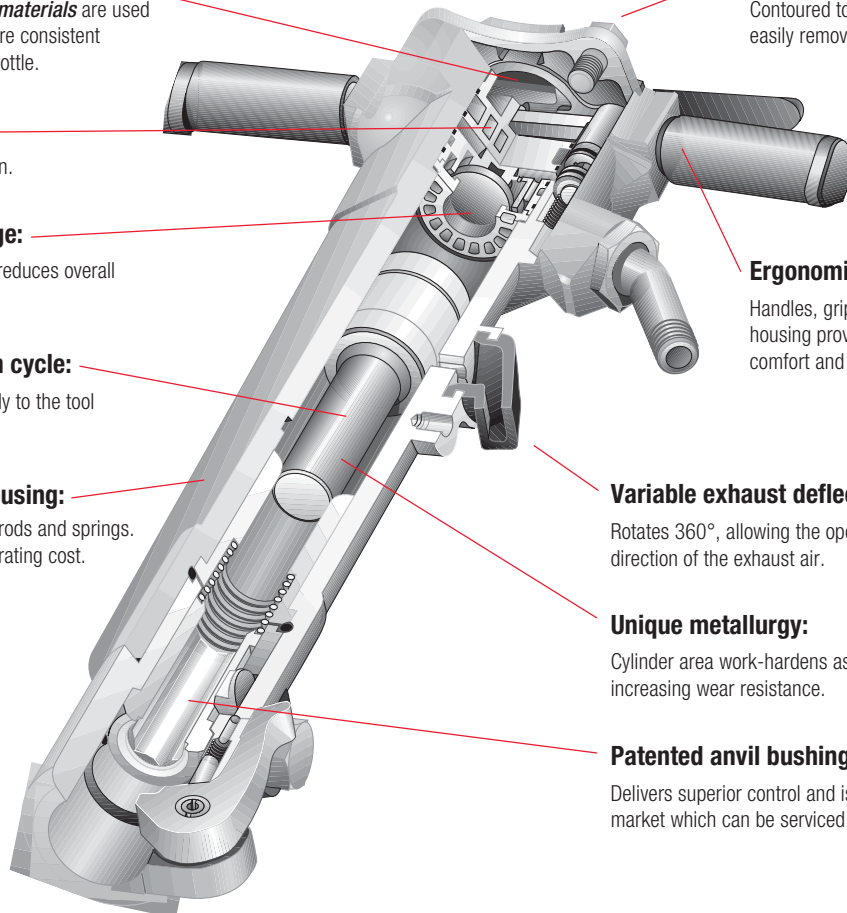
Rotates 360°, allowing the operator to choose the direction of the exhaust air.

Unique metallurgy:

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

Patented anvil bushing:

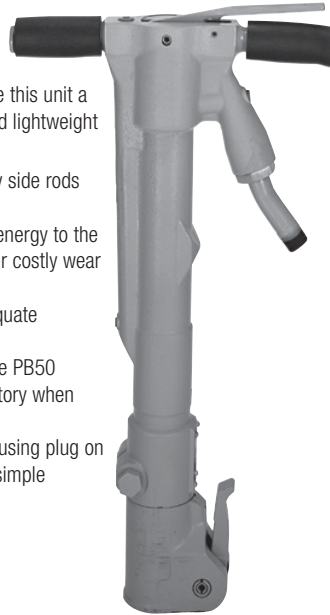
Delivers superior control and is the only unit on the market which can be serviced without a press!



PB35AL8
35 lb Class Breaker

Proven reliability and productivity make this unit a favorite for bridge deck resurfacing and lightweight demolition of concrete and asphalt.

- 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, the anvil block
- Built in lubricator helps assure adequate lubrication
- Many interchangeable parts with the PB50 series helps eliminate excess inventory when carrying both models
- Two roll pins and removal of the housing plug on the top head make service access simple
- 1 in. x 4-1/4 in. shank



PB35AS8
35 lb Class Breaker

All the same features and specifications as the PB35AL8 with the addition of a muffler.



PB50AL1
50 lb Class Breaker

These powerful units are perfect for general demolition, yet easy to handle. They serve as economical alternatives to heavier 60 lb and 90 lb breakers.

- 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, the anvil block
- Built in lubricator helps assure adequate lubrication
- Many interchangeable parts with the PB35 series helps eliminate excess inventory when carrying both models
- Two roll pins and removal of the housing plug on the top head make service access simple
- 1-1/8 in. x 6 in. shank



PB50AS1
50 lb Class Breaker

All the same features and specifications as the PB50AL1 with the addition of a muffler.



Part Number	Model	Chuck Size Hex w/Collar in.	Piston Stroke in.	Bore in.	Blows per Minute	Length w/o Accessory in.	Weight w/o Accessory lb.	CFM
Muffled Paving Breakers								
51357176	PB35AS8	1 x 4 1/4	6 1/4	1 3/4	1250	24 19/32	43	48
52085586	PB50AS1	1 1/8 x 6	6 1/4	1 3/4	1150	27 1/2	55	62
Non-Muffled Paving Breakers								
51296358	PB35AL8	1 x 4 1/4	6 1/4	1 3/4	1250	24 19/32	40	48
52085560	PB50AL1	1 1/8 x 6	6 1/4	1 3/4	1150	27 1/2	52	62

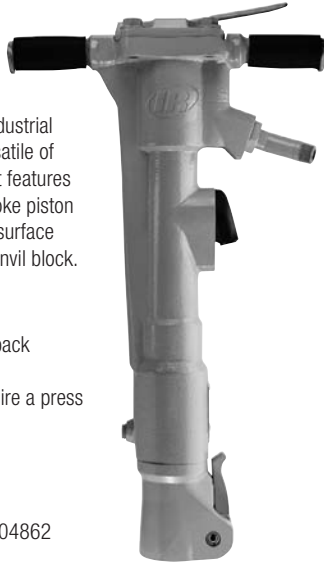
Air inlet: 3/4" NPT.
Size Hose Recommended: 3/4" (for hose lengths exceeding 50', use larger dia. hose).
Performance figures are at 90 psi (6.3 bar) air pressure.

Construction Tools Pavement Breakers

MX60A & B 60 lb Class Breaker Fixed Handle

Ideal for medium to heavy asphalt removal, demolition, utility work, and industrial maintenance. This unit is the most versatile of the IR breakers with unmatched product features and benefits . . . such as the power-stroke piston which delivers more power to the work surface and eliminates a costly wear item, the anvil block.

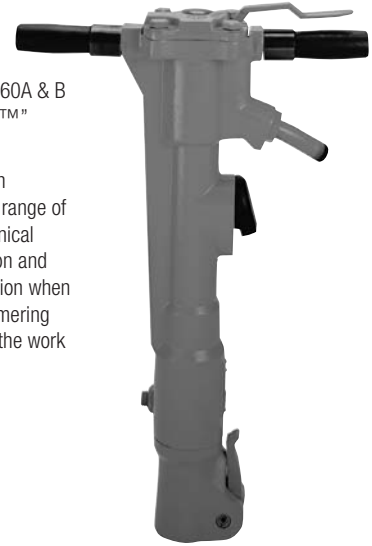
- No costly side rods and springs
- Composite valve eliminates rusting
- Directional exhaust eliminates blow back
- Built in lubricator
- Hand serviceable shank doesn't require a press to service
- Backhead conforms to operators leg
- 1-1/8 in. x 6 in. shank = MX60A
- 1-1/4 in. x 6 in. shank = MX60B
- Muffler sold separately, part no. 04704862



MX60AF & BF 60 lb Class Breaker Flex-Handle™

All the same features as the MX60A & B with the additional "Flex-Handle™" feature.

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.



MX90A & B 90 lb Class Breaker Fixed Handle

Our most productive breaker, the MX90 is the hardest hitting breaker in its class, and is ideal for performing heavy demolition work on thick concrete, asphalt and rock.

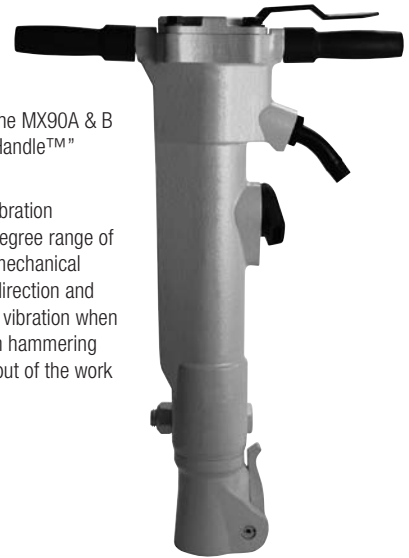
- No costly side rods and springs
- This unit features a power-stroke piston which delivers more power to the work surface and eliminates a costly wear item, the anvil block
- Composite valve eliminates rusting
- Directional exhaust eliminates blow back
- Built in lubricator
- Many interchangeable parts with the MX60
- Hand serviceable shank doesn't require a press to service
- Backhead conforms to operators leg
- 1-1/8 in. x 6 in. shank = MX90A
- 1-1/4 in. x 6 in. shank = MX90B
- Muffler sold separately, part no. 51953453



MX90AF & BF 90 lb Class Breaker Flex-Handle™

All the same features as the MX90A & B with the additional "Flex-Handle™" feature.

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.



Part Number	Model	Chuck size Hex w/Collar in.	Weight w/o Accessory lb.	Weight w/o Accessory kg	Length w/o Accessory in.	Length w/o Accessory mm	Piston Bore in.	Piston Bore mm	Piston Stroke in.	Piston Stroke mm	Blows per Minute	Air Connection in.	Muffler Kit Part no.	CFM
Standard Models														
51957207	MX60A	1 1/8 x 6	69	31.4	27.5	686	2.06	52.3	5.75	146	1250	3/4 NPT	52080298	75
51957181	MX60B	1 1/4 x 6	69	31.4	27.5	686	2.06	52.3	5.75	146	1250	3/4 NPT	52080298	75
51955136	MX90A	1 1/8 x 6	86	39.0	27.5	686	2.62	66.5	5.75	146	1250	3/4 NPT	51953453	89
51955110	MX90B	1 1/4 x 6	86	39.0	27.5	686	2.62	66.5	5.75	146	1250	3/4 NPT	51953453	89
Vibration Reduced Flex-Handled Models														
51957215	MX60AF	1 1/8 x 6	69	31.4	27.5	686	2.06	52.3	5.75	146	1250	3/4 NPT	52080298	75
51957199	MX60BF	1 1/4 x 6	69	31.4	27.5	686	2.06	52.3	5.75	146	1250	3/4 NPT	52080298	75
51955284	MX90AF	1 1/8 x 6	86	39.0	27.5	686	2.62	66.5	5.75	146	1250	3/4 NPT	51953453	89
51955268	MX90BF	1 1/4 x 6	86	39.0	27.5	686	2.62	66.5	5.75	146	1250	3/4 NPT	51953453	89

Air inlet: 3/4" NPT.

Size Hose Recommended: 3/4" (for hose lengths exceeding 50', use larger dia. hose).

Performance figures are at 90 psi (6.3 bar) air pressure.

IR30 and 45VR

These powerful units are designed to deliver power and durability for a variety of construction and maintenance applications.

- Vibration dampening handle designed to reduce the shock to the operator causing less fatigue
- Latch type retainer
- Noise dampening mufflers are standard on all units
- Mufflers can rotate to accommodate left or right handed operators, or to direct exhaust



IR60 and 90VR

These powerful units are designed to deliver power and durability for a variety of construction and maintenance applications.

- Vibration dampening handle designed to reduce the shock to the operator causing less fatigue
- Latch type retainer
- Noise dampening mufflers are standard on all units
- Mufflers can rotate to accommodate left or right handed operators, or to direct exhaust



Part Number	Model	Chuck Size Hex w/Collar in.	Piston Stroke in. mm	Piston Bore in. mm	Weight w/o Accessory lb. Kg	Length w/o Accessory in. mm	Blows per Minute	CFM	Air Inlet in.
85043040	IR30VRD	7/8" X 3-1/4"	6.61 168	1.42 36	33 15	25.4 644	1080	27	3/4 NPT
85043032	IR30VRC	1" X 4-1/4"	6.61 168	1.42 36	33 15	26.4 670	1080	27	3/4 NPT
85043024	IR45VRC	1" X 4-1/4"	5.35 136	1.65 42	46 21	25.9 659	1320	46	3/4 NPT
85043016	IR45VRA	1-1/8" X 6"	5.35 136	1.65 42	46 21	27.3 694	1320	46	3/4 NPT
85043008	IR45VRB	1-1/4" X 6"	5.35 136	1.65 42	46 21	27.3 694	1320	46	3/4 NPT
85042992	IR60VRA	1-1/8" X 6"	6.38 162	1.77 45	66 30	28.9 735	1200	60	3/4 NPT
85042984	IR60VRB	1-1/4" X 6"	6.38 162	1.77 45	66 30	28.9 735	1200	60	3/4 NPT
85042976	IR90VRA	1-1/8" X 6"	7.95 202	1.77 45	88 40	31.5 800	960	64	3/4 NPT
85042968	IR90VRB	1-1/4" X 6"	7.95 202	1.77 45	88 40	31.5 800	960	64	3/4 NPT

Construction Tools Diggers



93 Series Digger

20 lb Class / "D" Grip

Time tested valve durability in dusty conditions make IR diggers one of the most reliable and requested tools in their class. The lighter of the two IR series, the 93 digger is ideal for digging in clay, hardpan and frozen ground as well as horizontal concrete demolition, tunneling, and bridgework.

- Multiple latch configurations
- "D" handle grip
- Extra long nozzles for long life
- Three finger trigger
- 7/8 in. x 3-1/4 in. shank

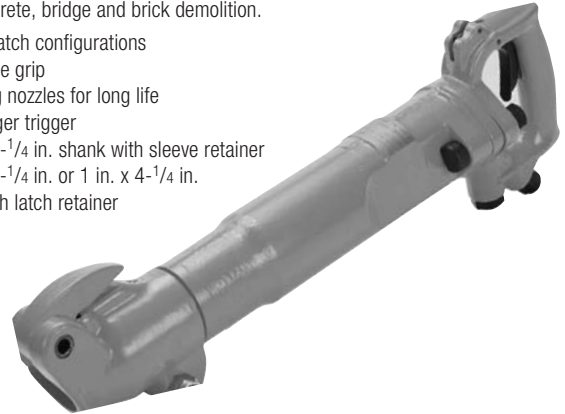


95 Series Diggers

30 lb Class / "D" Grip

Our larger 30 lb class offering provides the same-time tested durability of the lighter 93 series. However, this unit is ideal for heavier digging, foundation work, pipeline and utility work as well as heavier concrete, bridge and brick demolition.

- Multiple latch configurations
- "D" handle grip
- Extra long nozzles for long life
- Three finger trigger
- 7/8 in. x 3-1/4 in. shank with sleeve retainer
- 7/8 in. x 3-1/4 in. or 1 in. x 4-1/4 in. shank with latch retainer

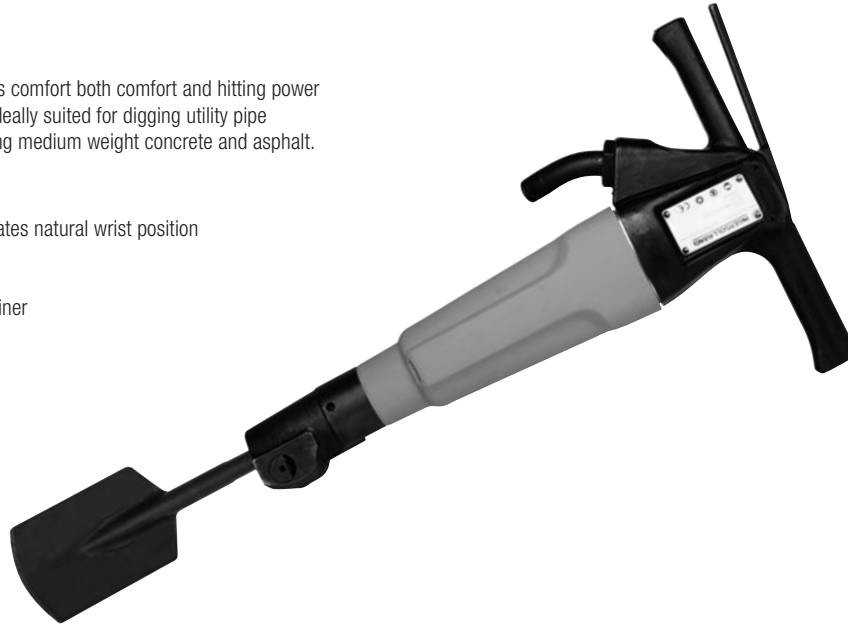


DT11TL1

29 lb Breaker / "T" Handle Digger

At only 29 lbs this powerful tool combines comfort both comfort and hitting power to make utility work easier. This tool is ideally suited for digging utility pipe trenches as well as breaking and removing medium weight concrete and asphalt.

- Powerful 6 in. stroke
- Integral muffler
- Optimum diameter handle accommodates natural wrist position
- Solid steel cylinder
- Forged steel front head
- 7/8 in. x 3-1/4 in. shank with latch retainer



Model	Retainer Type	Shank Size Hex w/Collar in.	Handle Type	Trigger Type	Piston Stroke		Bore		Blows per Minute	Length w/o Accessory		Weight w/o Accessory		CFM
					in.	mm	in.	mm		in.	mm	lb.	kg	
Lightweight with Inside Trigger Grip Handle														
93A1	Sleeve	7/8 x 3 1/4	D-Grip	Inside	2 1/2	64	1 1/16	43	2350	18 7/8	479	22	10	45
93A4	Hitch	7/8 x 3 1/4	D-Grip	Inside	2 1/2	64	1 1/16	43	2350	17 7/8	454	21	9.5	45
93LA1	Latch	7/8 x 3 1/4	D-Grip	Inside	2 1/2	64	1 1/16	43	2350	18 7/8	479	23	10.4	45
Medium Weight with Inside Trigger Grip Handle														
95A1	Sleeve	7/8 x 3 1/4	D-Grip	Inside	4	102	1 1/16	43	1850	21 7/8	556	27	12.3	47
95LA1	Latch	7/8 x 3 1/4	D-Grip	Inside	4	102	1 1/16	43	1850	21 7/8	556	28	12.7	47
95LA3	Latch	1 x 4 1/4	D-Grip	Inside	4	102	1 1/16	43	1850	21 7/8	556	30	13.6	47
DT11TL1	Latch	7/8 x 3 1/4	T-Handle	Top	4	102	1 1/16	43	1550	24	610	29	13.2	47

All Diggers have a 3/8" NPT inlet.

A 1/2" (13mm) size hose recommended. (for hose lengths exceeding 25', use larger dia. hose)

Sound level is 95 dBA.

Performance figures are at 90 psi (620 kPa) air pressure.

Construction Tools Pavement Breaker Accessories



Steel Description	Product	Most Popular Under Collar Length	Hex Shank Part Number and Size			
			7/8" x 3-1/4"	1" x 4-1/4"	1-1/8" x 6"	1-1/4" x 6"
Moil Point (Standard Duty) Used for all purpose general demolition		14" 18"	50050269 50050277	50050368 50050376	50050475 50055524	50055680 50055698
Moil Points (Super Duty)		14" 18"	22041495 22041602	22041057 22041065	22041073 22041081	22041099 22041107
1" Narrow Chisel (Standard Duty) Used for general demolition		14" 18"	50199207 50199215	50197805 50197821	50197904 50197912	50196385 50196401
1" Narrow Chisel (Super Duty)		14" 18"	22041503 22041610	22041115 22041123	22041131 22041149	22041156 22041164
1-1/2" Supercut Chisel Especially designed for breaking concrete		16"	N/A	22040463	22040471	22040489
3" Chisels Concrete demolition and asphalt cutting		14" 18"	50195288 50195296	50195320 50195338	50114883 50193747	50193879 50193887
3" Digging Chisel Digging and deeper asphalt cutting		16"	22040968	22040976	22040984	50186014
3-3/4" Combo Cutter Great for manhole reconstruction		11-1/2"	N/A	N/A	22040612	22040620
5" Asphalt Cutter Asphalt cutting and removal		11"	22040935	50190404	50185982	50185990
5-1/2" Clay Spade Trench digging and trimming		16"	50189596	50189554	50189562	50189570
Pipe Driver Pipe Size 1"		11"	N/A	N/A	22040505	22040513
Pipe Driver Pipe Size 1-1/2"		11"	N/A	N/A	22040547	22040554
Ground Rod Driver Drives/Rod up to 1", Socket 3" deep		8"	N/A	22040588	22040596	22040604
Detachable Shank		7-3/4"	22040927	50187830	50187848	50187855
2" Tent Stake Driver ⁽¹⁾		N/A	22040638	22040638	22040638	22040638
2-1/2" Tent Stake Driver ⁽¹⁾		N/A	22040646	22040646	22040646	22040646
Tamping Pad 8" Square ⁽¹⁾ Compacting and backfilling		N/A	50187897	50187897	50187897	50187897
3 Piece Sign Post Driver Includes: Shank, Post Block, 3-1/2" IO Driver		7-3/4"	22040778	22040943	22041008	22041016

(1) Used with detachable shank.

Other steel and lengths available through IRAX Catalog: Form - 52225G.

Super Duty moil points and chisels are rounded under the collar and have more mass and strength for longer life and less sharpening.

Construction Tools

Jackhamers™ / Rockdrills

JRD30-A and B

30 lb Class Rockdrill

At 29 lbs, this tool is light enough for horizontal drilling, yet incorporates the speed, stamina, hole-cleaning capacity and easy handling that have made IR Jackhamers™ the standards of comparison. This tool is ideal for a variety of wet or dry drilling jobs, requiring holes up to 1-1/2 inches wide and 10 feet deep in concrete or soft to medium rock.


- Easy access adjustable 3 speed throttle
- Reversible pawls
- Directional exhaust
- JRD30-A = 7/8 in. x 3-1/4 in. shank
- JRD30-B = 7/8 in. x 4-1/4 in. shank

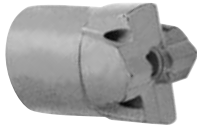


Part Number	Model	Shank Size Hex w/Collar in.	Weight w/o Accessory		Length w/o Accessory		Blows per Minute	Air Inlet Size (NPT)		Max Bit Diameter		Max Hole Depth		Piston Stroke		Bore		CFM
			lb.	kg	in.	mm		in.	mm	in.	mm	ft.	mm	in.	mm	in.	mm	
JRD30-A	JRD30-A	7/8 x 3 1/4	29	13.2	19 1/2	495	2700	3/4	19	1 1/2	38	10	254	1 7/16	37	2 3/8	60	73
JRD30-B	JRD30-B	7/8 x 4 1/4	29	13.2	19 1/2	495	2700	3/4	19	1 1/2	38	10	254	1 7/16	37	2 3/8	60	73

³/₄" (19mm) hose size is recommended.






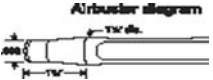
Performance figures are at 90 psi (620 kPa) air pressure.

Description	Product	Under Collar Length	Hex Shank Part Number and 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

Description	Product	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	51293017	N/A






1-1/4 in. x 4-1/4 in. Hex Shank Rope Thread Jackrod are available in the IRAX catalog along with other sizes of jackrod and bits.

Rivet Buster Steel and Retainers

Description	Product	Length		Part Number
		in.	mm	
Moil Point: 12 in.		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 in.		12	305	9001-277-9-1/2
Ripper Chisel: 9-1/2 in.		9-1/2	241	9001-295 9-1/2
Assembled Unit shows position of sleeves and bumper				

Description	Product	Rivet Diameter		Part Number
		in.	mm	
Black Out Punches: 9-1/2 in.		3/8	10	9001-278
		1/2	13	9001-279
		5/8	16	9001-280
		3/4	19	9001-281
		7/8	22	9001-282
		1	25	9001-283
		1-1/8	29	9001-284

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

Retainers & Accessories	Product	Barrel Threaded 9001, 11001	Barrel Grooved 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

Construction Tools Rivet Busters

DT9DL1, DS1 and DH1

6 in. Stroke Rivet Buster

This rivet buster provides the hard-hitting performance of a small breaker, without the added weight. The unit features the use of standard hex steel, and weighs just 20-22 lbs, depending on retainer selection.

- Enclosed "D" handle
- Inside 3 finger trigger
- Latch retainer: DT9TL1
- Sleeve retainer: DT9DS1
- Hitch retainer: DT9DH1
- Takes 7/8 in. x 3-1/4 in. hex steel
- Integral muffler
- Solid steel cylinder

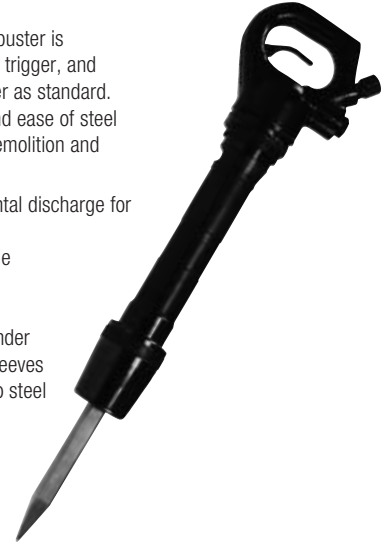


8001A

8 in. Stroke Rivet Buster

Our general duty eight inch rivet buster is configured with a "D" grip, inside trigger, and grooved barrel spring lock retainer as standard. This provides ease of handling and ease of steel changing for a variety of tough demolition and removal projects.

- Piston bridge prevents accidental discharge for increased safety
- Rugged steel forged "D" handle
- Three finger inside trigger
- Steel throttle valve
- Case hardened alloy steel cylinder
- Heavy duty upper and lower sleeves
- Takes industry standard jumbo steel



9001 and 9001A

9 in. Stroke Rivet Buster

Whether your job involves heavy duty foundry applications, bridge deck work, rivet removal, tank cutting and ripping, or general brick or concrete demolition, the 9001 provides an ideal solution to handle your toughest job. Your choice of threaded retainer, (Model 9001) or grooved barrel spring lock retainer, (Model 9001A).

- Piston bridge prevents accidental discharge for increased safety
- Swan neck handle
- Outside forged steel trigger
- Steel throttle valve
- Case hardened alloy steel cylinder
- Directional exhaust deflector
- Takes industry standard jumbo steel



11001 and 11001A

11 in. Stroke Rivet Buster

For production rivet removal and heavy demolition, our longest stroke rivet buster is the heaviest hitting unit in IR's rivet buster line. It features all of the same features and benefits of the 9001, including the integral piston bridge for added safety, a choice of retainers, and the swan neck handle.



Model No.	Retainer Type	Shank Size Hex w/Collar in.	Handle Type	Trigger Type	Piston Stroke		Bore		Blows per Minute	Length w/o Accessory		Weight w/o Accessory		CFM
					in.	mm	in.	mm		in.	mm	lbs	kg	
DT9DL1	Latch	7/8 x 3 1/4	D Grip	Inside	5 15/16	150	1 11/16	42.5	1560	22 1/2	565	22	10	47
DT9DS1	Screw	7/8 x 3 1/4	D Grip	Inside	5 15/16	150	1 11/16	42.5	1560	22 1/2	565	22	10	47
DT9DH1	Hitch	7/8 x 3 1/4	D Grip	Inside	5 15/16	150	1 11/16	42.5	1560	22 1/2	565	22	10	47

3/4 in. male NPT air inlet. A 3/4 in. (19 mm) size hose recommended. (for hose lengths exceeding 100 ft, use larger dia. hose).
Sound level is 95 dBA. Performance figures are at 90 psi (20 kPa) air pressure.

Model	Length ⁽¹⁾ in.	Stroke in.	Retainer Type	Handle Type kg	Steel Type	Weight ⁽¹⁾ lbs	BPM	Bore in.	CFM	Air Inlet in. (NPT)
8001A	22 1/2	8	Grooved barrel with lock spring	"D" handle	Jumbo	30	1140	1 3/16	44	1/2
9001A	22 1/2	9	Grooved barrel with lock spring	Swan neck	Jumbo	24.75	900	1 1/16	40	1/2
9001	22 1/2	9	Threaded barrel with lock clip	Swan neck	Jumbo	24.75	900	1 1/16	40	1/2
11001A	24 1/2	11	Grooved barrel with lock spring	Swan neck	Jumbo	30.21	800	1 1/16	45	1/2
11001	24 1/2	11	Threaded barrel with lock clip	Swan neck	Jumbo	30.21	800	1 1/16	45	1/2

“K” Series

General / Light Duty

Weighing just 8 lbs, and offered only in a 1 1/4 in. stroke, this tool is IR’s smallest line of chippers, but features the same time-tested features that have made our chippers leaders in the industry. Available in .580 and .680 round shank. Uses oval collar accessories.

- Grooved barrel, lock spring retainer
- Swan neck handle
- Outside trigger
- Time tested valve durability
- Replaceable piston



“D” Series

Construction Duty / 4 Bolt

Compare the weight of this 4 bolt to the competition! This rugged tool features the best power to weight in its class for increased job site productivity. In addition, this unit features a convenient “D” shaped handle and outside trigger, along with a strong four bolt backhead for easy serviceability.

- Time tested valve design
- Die cast aluminum handle
- Directional exhaust
- Tease throttle
- Over-molded steel collar
- Available in 2, 3 or 4 in. stroke
- Choice of .580 hex or .680 round shank
- Accepts oval collar accessories



Model	Weight less Chisel		Length		Piston Stroke		Bore		Blows per Minute	Chisel Retainer	Hose Connector Pipe Tap in.	Size Hose Recomm.		CFM
	lb.	kg	in.	mm	in.	mm	in.	mm				in.	mm	
With .580” Hex Nozzle — for use with Hex Shank Oval Collar Chisels														
K2LA1	6	2.72	10 7/8	276	1 3/4	44	7/8	22	3600	None	1/4	1/2	13	18
K2LA1SA	8	3.63	12	305	1 3/4	44	7/8	22	3600	Plain Arrow	1/4	1/2	13	18
With .680” Round Nozzle — for use with Round Shank Oval Collar Chisels														
K2LA2	6	2.72	10 7/8	276	1 3/4	44	7/8	22	3600	None	1/4	1/2	13	18
K2LA2SA	8	3.63	12	305	1 3/4	44	7/8	22	3600	Plain Arrow	1/4	1/2	13	18

Performance figures are at 90 psi (620 kPa) air pressure.

Series	Model/ Part No.	Chisel Bushing	Retainer in.	Blows/ minute	Weight w/o Retainer lbs	Length w/o Retainer in.	Length w Retainer in.	Air SCFM	Stroke in.	Bore in.
D	2DA1SA	Hex	Std	2200	11 3/4	13 1/4	13 3/4	28	2 1/4	1 1/8
D	3DA1SA	Hex	Std	1900	13	14 3/4	17	31	3	1 1/8
D	4DA1SA	Hex	Std	1600	14	15 3/4	18	34	4	1 1/8
D	2DA2SA	Round	Std	2200	11 3/4	13 1/4	13 3/4	28	2 1/4	1 1/8
D	3DA2SA	Round	Std	1900	13	14 3/4	17	31	3	1 1/8
D	4DA2SA	Round	Std	1600	14	15 3/4	18	34	4	1 1/8

Hex Bushings – Measures .580 hex, Round Bushing – Measures .680 round
 7/8"-24 NPT air inlet bushing is standard on “D” series chippers. 3/8" NPT bushing supplied as accessory.
 (1) Weight of standard retainer and spring equals 2 lbs.

Construction Tools

Chipping Hammers

“A” Series

Industrial Duty

Renowned for its valve life and handle durability, this classic tool is widely used throughout industry and construction. It is ideal for light demolition work, bridge decking, concrete surface preparation, metal removal, form stripping, and many other applications. It is available in a 1, 2, 3 or 4 in. piston stroke with your choice of .580 hex or .680 round shank. Uses oval collar accessories.

- Grooved barrel, lock spring retainer
- Swan neck handle
- Outside trigger
- Time tested valve durability
- Replaceable piston
- Long nozzle for extra life



3A2SA
*Units ending in ‘A’ include a retainer as standard. Those ending in ‘S’ do not.

“W” Series

Heavy Duty

Same tough specifications as the “A” series units, but with a heavy duty front end featuring a threaded barrel and rubber buffered retainer for increased steel and retainer life. Uses round collared accessories.



W3A2
Screw on retainers are standard on all ‘W’ units.

Model	Weight less Chisel		Length		Piston Stroke		Bore	Blows per Minute	Chisel Retainer	Hose Connector Pipe Tap	Size Hose Recomm.	CFM		
	lb.	kg	in.	mm	in.	mm							in.	mm
‘A’ Series Industrial Duty Chippers														
With .580” Hex Nozzle — uses Hex Shank Oval Collar Chisels														
1A1S	12¾	5.78	13½	343	1	25	1½	28	2500	None	¾	½	13	28
1A1SA	14¾	6.69	15½	394	1	25	1½	28	2500	Plain	¾	½	13	28
2A1S	13½	5.95	14	356	2	51	1½	28	2300	None	¾	½	13	28
2A1SA	15½	6.86	16	406	2	51	1½	28	2300	Plain	¾	½	13	28
3A1S	14½	6.63	15½	403	3	76	1½	28	1725	None	¾	½	13	29
3A1SA	16½	7.54	17½	454	3	76	1½	28	1725	Plain	¾	½	13	29
4A1S	15½	7.03	16½	429	4	102	1½	28	1480	None	¾	½	13	29
4A1SA	17½	7.94	18½	480	4	102	1½	28	1480	Plain	¾	½	13	29
With .680” Round Nozzle — uses Round Shank Oval Collar Chisels														
1A2S	13¾	5.78	13½	343	1	25	1½	28	2500	None	¾	½	13	28
1A2SA	14¾	6.69	15½	394	1	25	1½	28	2500	Plain	¾	½	13	28
2A2S	13½	5.95	14	356	2	51	1½	28	2300	None	¾	½	13	28
2A2SA	15½	6.86	16	406	2	51	1½	28	2300	Plain	¾	½	13	28
3A2S	14½	6.63	15½	403	3	76	1½	28	1725	None	¾	½	13	29
3A2SA	16½	7.54	17½	454	3	76	1½	28	1725	Plain	¾	½	13	29
4A2S	15½	7.03	16½	429	4	102	1½	28	1480	None	¾	½	13	29
4A2SA	17½	7.94	18½	480	4	102	1½	28	1480	Plain	¾	½	13	29
‘W’ Series Heavy Duty Chippers														
With .580” Hex Nozzle — to use Hex Shank Round Collared Accessories														
W1A1	14¾	6.69	15½	403	1	25	1½	28	2500	N/A	¾	½	13	28
W2A1	15½	7.03	16½	416	2	51	1½	28	2300	N/A	¾	½	13	28
W3A1	16½	7.54	18¼	464	3	76	1½	28	1725	N/A	¾	½	13	29
W4A1	17½	7.94	19¼	489	4	102	1½	28	1480	N/A	¾	½	13	29
With .680” Round Nozzle — to use Round Shank Round Collared Accessories														
W1A2	14¾	6.69	15½	403	1	25	1½	28	2500	N/A	¾	½	13	28
W2A2	15½	7.03	16½	416	2	51	1½	28	2300	N/A	¾	½	13	28
W3A2	16½	7.54	18¼	464	3	76	1½	28	1725	N/A	¾	½	13	29
W4A2	17½	7.94	19¼	489	4	102	1½	28	1480	N/A	¾	½	13	29

Performance figures are at 90 psi (620 kPa) air pressure.
For hose lengths exceeding 50’, use larger dia. hose.

DT10 Series Demolition Tools

23 lb Horizontal Demolition

Using IR's exclusive Vibrasmooth™ technology to dampen the impact reaction before it reaches the operator, these tools provide exceptional power to weight ratios, for a combination of productivity and operator comfort not found in traditional tools. Designed for horizontal demolition, these units also feature optional retainers such as latch, hitch, or sleeve and have an integral composite muffler for sound reduction.

- "D" handle with 3 finger trigger
- Both hands are isolated
- Solid steel cylinder
- Life time warranty on composite housing
- Shank options: 7/8 x 3-1/4 in. and 1 x 4-1/4 in.



DT13 Series Demolition Tools

28 lb Vertical Demolition

Same Vibrasmooth™ technology and specs as the DT10, with a "T" handle for vertical demolition. This unit is ideal for medium weight demolition such as curb and walkway removal as well as utility digging. The grips are positioned to accommodate natural wrist position. When the throttle is depressed, it lies flush and provides hand grips of equal size.



Retainers Types

Hitch: Thread-on Key Way (multiple accessory options such as spades and diggers)

Latch: Traditional Latch Type (multiple accessory options)

Screw: Thread-on Sleeve (chisels and points up to 1 in. only)



Note:
Hitch retainer must be completely threaded off to change chisels. It allows shank and collar to be inserted through side hole when using a spade or chisel with a wide blade that will not fit through 1 in. opening in screw retainer.

Model	Retainer Type	Shank Size Hex w/ Collar in.	Handle Type	Trigger Type	Piston Stroke		Bore		Blows per Minute	Length w/o Accessory		Weight w/o Accessory		CFM
					in.	mm	in.	mm		in.	mm	lb.	kg	
DT10DS1	Screw	7/8 x 3 1/4	D-Grip	Inside	5 15/16	150	1 11/16	42.5	1560	26 3/8	670	23	10	62
DT10DH1	Hitch	7/8 x 3 1/4	D-Grip	Inside	5 15/16	150	1 11/16	42.5	1560	26 3/8	670	23	10	62
DT10DL1	Latch	7/8 x 3 1/4	D-Grip	Inside	5 15/16	150	1 11/16	42.5	1560	26 3/8	670	23	10	62
DT10DL2	Latch	1 x 4 1/4	D-Grip	Inside	5 15/16	150	1 11/16	42.5	1560	26 3/8	670	23	10	62
DT13TL1	Latch	7/8 x 3 1/4	T-Handle	Top	5 15/16	150	1 11/16	42.5	1560	27 1/8	690	28	13	62
DT13TL2	Latch	1 x 4 1/4	T-Handle	Top	5 15/16	150	1 11/16	42.5	1560	27 1/8	690	28	13	62

All IRGO-PICs have a 3/4" male NPT air inlet.
A 3/4" at 90 psi (620 kPa) air pressure.

Construction Tools

Chipping Hammer Steel and Retainers

Description	Product	Most Popular Under Collar Length	Series: K2L, 1, 2, 3, 4A and D		Series: W1, W2, W3 and W4	
			.680 Round Shank Oval Collar	.580 Hex Shank Oval Collar	.680 Round Shank Round Collar	.580 Hex Shank Round Collar
1" Flat Chisel		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		12"	HH1-215M-12	HH1-214M-12	H3R-215M-12	H3R-214M-12
		18"	HH1-215M-18	HH1-214M-18	N/A	H3R-214M-18
Diamond Point		12"	HH1-215D-12	HH1-214D-12	H3R-215D-12	H3R-214D-12
2" Scaling Chisel		12"	HH1-323-12	HH1-324-12	H3R-423-12	H3R-424-12
		18"	N/A	N/A	N/A	N/A
Bushing Tool		9"	HH1-215-9	HH1-214T-9	N/A	N/A

Other Steels available through IRAX Catalog, Form 52225G: Spark Resistant Chisels, Blanks, Cape, Gouge, Round Nose, Fuller, Caulking, Ripper Chisel, Tooth Chisel, Paper Box Stripping Chisel.

Retainers	Product	Barrel Area Type	Series: K2L, 1, 2, 3, 4A and D	Series: W1, W2, W3 and W4
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 above		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

Description	Product	Part No.
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

(1) "W" Series chipper w/rubber buffered retainer, part no. HHW1-A300, includes the parts above.

Note:

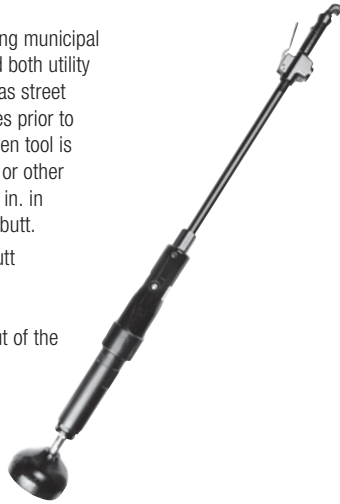
Operating percussive tools without impacting a work surface (dry firing) or without proper lubrication subjects the tool to premature wear and damage. IR recommends using an in-line oiler (part no. 6LUB12) on your compressor with medium weight rock drill oil (part no. 51378693).

341A2M

Tamper

At 35 lbs, this tamper is a favorite among municipal and utility crews for compacting around both utility line repairs and new installations such as street lights, fire hydrants, and telephone poles prior to pouring concrete. In addition, this proven tool is ideal for backfilling around foundations or other tight areas. Fits in openings down to 6 in. in standard version, or 3 in. with optional butt.

- Standard 5³/₄ in. round malleable butt
- Built in lubricator
- Built in muffler
- Dual action sand wiper keeps dirt out of the barrel
- 7⁷/₈ in. tapered rod
- Plated piston
- Optional front end butts
 - 3 in. steel butt: 34SR-383



441A2

Tamper

This unit features all of the same rugged design features as the 35 lb model, but adds extra weight and power to extend deep into the soils and substructures for those applications where deeper backfill is necessary. This unit weighs 47 lbs and has a 1 in. threaded tapered rod to accommodate optional front-end butts.

- 5³/₄ in. round malleable butt is standard
- Optional front end butt
 - 1/2 in. moon: 44SR-HM183-5



130A1M

“Bench” Sand Rammer

Ideal for compacting sand molds in a foundry or casting facility, the short size, light weight and long throttle lever allow this unit to be used on smaller models that are set up waist high. Its unique double-action “sand wiper” seal excludes dirt and grit from inside the tool for reduced wear and long life.

- Time tested valve design
- 11⁹/₁₆ lbs
- Optional front end butts
- 2¹/₂ in. butt standard
- Round piston rod
- Built in muffler



241A1M

“Floor” Sand Rammer

This unit features a long handle, heavier stroke, two times the weight, and double the BPM of the 130A1M. This unit is easily held from a standing position while compacting very large molds at floor level.

- Time tested valve design
- Front end seal excludes dirt and grit
- 47¹/₈ lbs
- 3 in. butt standard
- Optional front end butts
- Round piston rod



Optional Accessories

Description of Butt	Part Number
For Model 130A1M — 1/2" Tapered Rod	
Malleable Butt 2 ¹ / ₂ " (64 mm) diameter (Std.)	12SR-83
Rubber Tipped Butt 2 ³ / ₈ " (60 mm) diameter	14SR-83R-23/8
Rubber Topping-off Butt 3 ²⁹ / ₃₂ " (99 mm) diameter	14SR-83R-4
Rubber Tipped Peen	14SR-93R

Description of Butt	Part Number
For Model 241A1M — 5/8" Tapered Rod	
Malleable Butt 3" (76 mm) diameter (Std.)	22SR-83-3x3/4
Rubber Tipped Butt 3" (76 mm) diameter	24SR-83R-3
Rubber Tipped Butt 5" (127 mm) diameter	24SR-83R-5

Model	Type	Weight w/Butt		Length w/Butt		Barrel Bore		Piston Stroke		Blows per Minute	Butt Diameter		CFM
		lb.	kg	in.	mm	in.	mm	in.	mm				
130A1M	Bench	11 ⁹ / ₁₆	5.24	21 ¹ / ₂	546	1	25	2 ¹ / ₂	63	870	—	—	14
241A1M	Floor	26 ⁷ / ₈	12.2	52 ³ / ₄	1340	1 ⁵ / ₁₆	33	4	102	1590	—	—	29
341A2M	—	34 ⁷ / ₈	15.8	52 ³ / ₄	1340	1 ⁵ / ₈	41	4	102	1550	5 ³ / ₄	146	29
441A2	—	47 ¹ / ₈	21.4	50 ⁷ / ₈	1292	2	51	4	102	1750	5 ³ / ₄	146	36

Model 130A1M has 1/4" NPT air inlet; 3/8" (10 mm) hose is recommended.
 Model 241A1M has 3/8" NPT air inlet; 1/2" (13 mm) hose is recommended.
 Both Tampers have 3/8" NPT air inlet; 1/2" (13 mm) size hose is recommended.
 Performance figures are at 90 psi (620 kPa) air pressure.

Construction Tools

Rail Tools: Spike Drivers and Tie Tamper

60 lb Spike Drivers

- MX60-SD: Fixed Handle
- MX60F-SD: Flex Handle

Looking to improve the productivity of rail maintenance and installation crews? In comparative field testing, rail crews have discovered that the 60 lb IR spike driver, performs as fast as competitive 90 lb tools, giving you the productivity of a large tool with one third less weight. IR spike drivers transfer 20 percent more blow energy to the spike than traditional tools by incorporating the same hard hitting power-stroke piston technology found in our pavement breakers. The units are available with optional flex handles for enhanced operator comfort and productivity.

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



90 lb Spike Drivers

- MX90-SD: Fixed Handle
- MX90F-SD: Flex Handle

For those crews requiring maximum production, IR offers the larger 90 lb tool with all the same rugged design and performance specifications as the 60 lb tool.

Optional Accessories

- MX60 muffler (52080298)
- MX90 muffler (51953453)



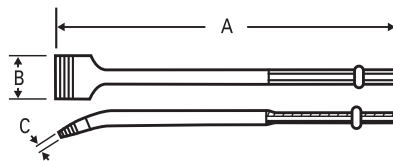
Standard Models	Part Number	Weight w/o Accessory		Length Accessory		Piston Bore		Piston Stroke		Blows per Minute bpm	Air Consumption @ 90 psi		Air Connection in.
		lb.	kg	in.	mm	in.	mm	in.	mm		cfm	1/sec	
MX60-SD	51997922	69	31.4	27.5	686	2.06	52.3	5.75	146	1250	75	35.4	3/4 NPT
MX90-SD	51997948	86	39.0	27.5	686	2.62	66.5	5.75	146	1250	89	40.1	3/4 NPT
MX60F-SD	51997930	69	31.4	27.5	686	2.06	52.3	5.75	146	1250	75	35.4	3/4 NPT
MX90F-SD	51997955	86	39.0	27.5	686	2.62	66.5	5.75	146	1250	89	40.1	3/4 NPT

Air inlet: 3/4" NPT.
Size Hose Recommended: 3/4" (for hose lengths exceeding 50', use larger dia. hose).
Performance figures are at 90 psi (6.3 bar) air pressure.

MT4 Tie Tamper

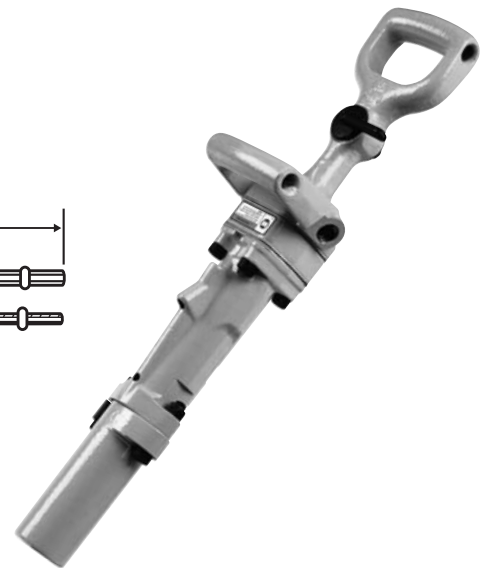
Built for fluffing up railroad ballast, this tool features a forged-steel housing and handles, as well as precision engineered valving and pistons for long life and durability. With top and rear handles, this tool is balanced for improved comfort and handling. Multiple steel options are available to meet all applications in rock, gravel, slag, dirt, cinder, sand, or chat ballast. Hose can be attached from either side to reduce interference when working in pairs.

- Chrome plated piston
- Low air consumption
- Excellent power balance will not crush ballast
- Chrome plated nozzle for long life
- Wing throttle



Tie Tamper Steels

Part Number	A	B	C	Description
MT2-12-3/8	24"	3"	3/8"	Plain face, for spot tamping and low lifts
MT2-12-5/8	24"	3"	5/8"	Plain face, for rock ballast of 29 mesh or larger
MT2-12-7/8	24"	3"	7/8"	Plain face, for small rock ballast, gravel and slag
MT2-12-3/4	24"	3"	3/4"	Plain face, for dirt, cinder, gravel, sand or chat ballast
MT2-S12-5/8	24"	3"	5/8"	Toothed face, for stone ballast
MT2-12-1 1/8	24"	3"	1 1/8"	Plain face, for dirt, cinder, gravel, sand or chat ballast



Model	Weight w/Butt		Length w/Butt		Barrel Bore		Piston Stroke		Blows per Minute	Hose connection Pipe Tap	Recommended Hose Size		CFM
	lb.	kg	in.	mm	in.	mm	in.	mm			in.	mm	
MT4	40 1/4	18.3	29 1/4	743	2	51	1 1/16	43	1400	3/4	3/4	19	9

Performance figures are at 90 psi (620 kPa) air pressure.



Hoses

Part Number	Description
22040679	Yellow 3/4" x 50' hose with double banded Universals on both ends. 300 psi
22040687	Red 1/2" x 8' whip hose. Double banded Universal to 3/8" NPT straight male. 250 psi
22041453	Red 1/2" x 8' whip hose. Double banded Universal to 1/2" NPT straight male. 250 psi
22041461	Red 1/2" x 8' whip hose. Double banded Universal to 1/2" NPT swivel male. 250 psi
22041479	Red 1/2" x 8' whip hose. Double banded Universal to 7/8"-24 NPT swivel male. 250 psi

Whip hoses with swivels use heavy duty swivels



Needle Pressure Gauge

Part Number	Description
NPG-A1	Gauge Kit

IR tools are rated at 90 psi. Pressure above or below can effect performance. For best performance check with an IR gauge.

Swivel Inlet



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.
Part Number	3LUB8	6LUB12	8LUB12	16LUB16
NPT Pipe Size	1/2"	3/4"	3/4"	1"

Rule of thumb: 1/2 oz. per hour.



Oil

Description	Light - 1 Gallon	Medium - 1 Gallon	Heavy - 1 Gallon
Part Number	51378701	51378693	51378784
Temperature Range	Below 20° F	20° - 90° F	Above 90° F

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	178-8	UW-300-B	UG-100	MT1-AL34-1



Construction Tools Saws

Reciprocating Saws

Standard Equipment

- Built-in Lubricator
- Muffled Exhaust
- Self-locking Trigger

SRA010K2 Kit

- Model SRA010A1 Saw
- Blade Assortment of seven blades for cutting a variety of materials (205885: 5 each 6 in. blades 2 each 4 in. blades)
- Metal Carrying Case (SRA010A1-4)

Features

- Grip handle with self-locking throttle to promote operator safety.
- Rotatable exhaust deflector with muffler for quiet operation — piped-away exhaust hose available.
- Heavy-duty thrust bearings for extended life.



SRA010A1

(Example of saw blade)



Model	Strokes per Minute	Length of Stroke		Length Over Front of Saw Guide		Weight		Side to Center Distance		Maximum Power		Air Inlet Size NPT		Size Hose Recomm.		CFM
		in.	mm	in.	mm	lb.	kg	in.	mm	hp	kW	in.	mm	in.	mm	
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 (620 kPa) air pressure.

Circular Saws

Features

- Self-locking throttle
- Air power means no motor burnout from stalls
- Exclusive self-regulating motor with patented controller for more power with less weight
- Depth and angle of cut are easily adjusted

Standard Equipment

Model S80

- Grip Handle with Lock-off Throttle
- 8 1/4 in. (210 mm) diameter Combination Chisel Tooth Blade
- 5/8 in. (16 mm) diameter Round Hub
- Depth Gauge Bracket for adjusting depth of cut from 3/16 to 3 in. (5 mm to 76 mm) with 8 1/4 in. (210 mm) diameter blade
- Built-in Lubricator

Optional Accessories

Model S80

- Metal Carrying Case S80-4*
- Availability subject to prior sale*

Model S120

- Grip Handle with Lock-off Throttle
- 12 in. (305 mm) diameter Crosscut Wood Sawing Blade. Model No. B12-257R
- Pin-type Blade Flange
- Depth Gauge Bracket for adjusting depth of cut from 1 3/8 to 4 3/8 in. (35 mm to 111 mm) with 12 in. (305 mm) blade
- Built-in Lubricator

Optional Accessories

Model S120

- Abrasive Blade Flange Kit S12-A86
- Depth Gauge Bracket for adjusting depth of cut from 0 to 4 3/8 in. (0 to 111 mm) with 12 in. (305 mm)
- Blade, S12-506

Blades for use with Model S120

- (12 in. diameter with 1 in. diameter arbor hole) Part No./Description
 - B12-257R cross cut, ripping, planer blade*
 - B12-257Z insulating board*
- *Availability subject to prior sale.



S80



S120

Model	Free Speed rpm	Weight w/o Blade		Maximum Power		Speed at Max. Power rpm	Blade Diameter		Arbor Hole Diameter		Max. Depth of Cut		Min. Depth of Vertical Cut		CFM
		lb.	kg	hp	kW		in.	mm	in.	mm	in.	mm	in.	mm	
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

Sound level for S80 is 85 dBA.

Model	Size of Shoe		Max. Depth of Cut at 45° Angle		Max. Thickness of Material for 45° Cut		Length		Width		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. mm	Size Hose Recomm. in. mm	
	in.	mm	in.	mm	in.	mm	in.	mm	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

*Recommended for maximum performance; however a whip of 1/2" (13 mm) hose up to 00 feet (3.7 meters) long can be used with only slight reduction in performance. Performance figures are at 90 psi (620 kPa) air pressure.

22 Series Models

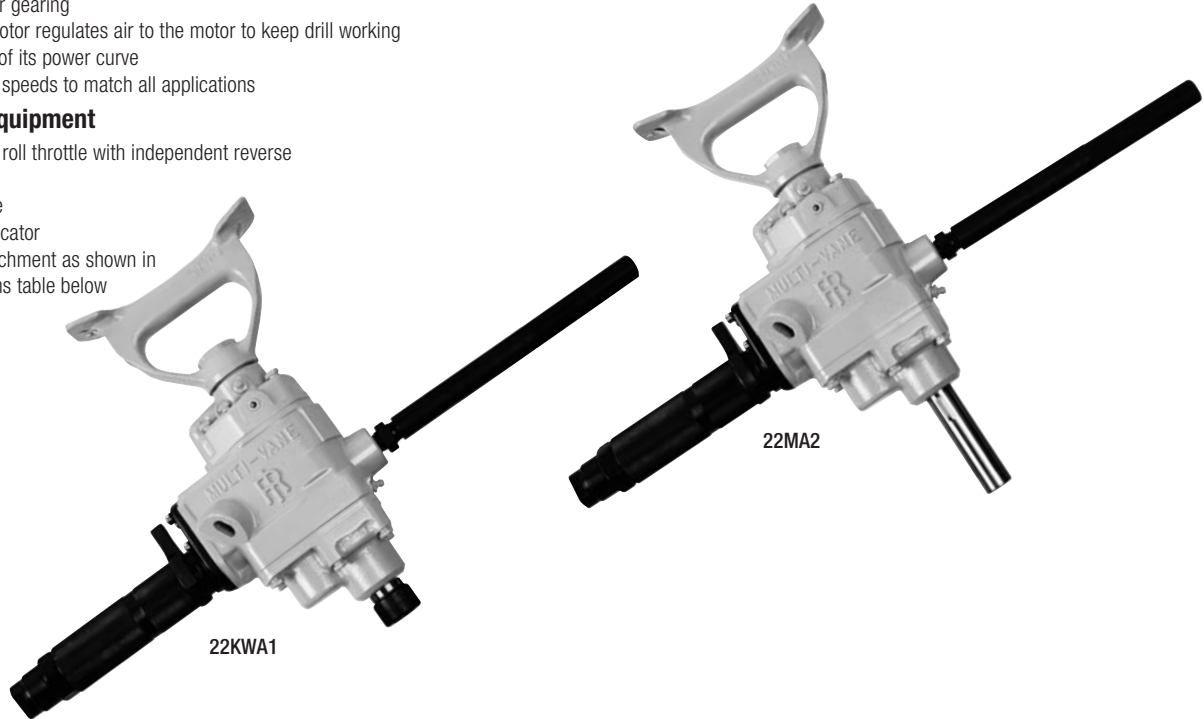
Features

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

Standard Equipment

- Self-closing roll throttle with independent reverse
- Breast plate
- Dead handle
- Built-in lubricator
- Spindle attachment as shown in specifications table below

IR offers large drills in straight and angle configurations, ideal for opening and closing large valves, or drilling large diameter holes with a variety of available attachments.



Model	Free Speed rpm	Capacity in Steel				Spindle	Spindle Attachment	Weight		Height over Spindle		Side to Center Distance		CFM
		Drilling in.	Reaming in.	mm	mm			lb.	kg	in.	mm	in.	mm	
22JA1	1025	9/16	14	3/8	10	Stub Taper, Th'ded	5/64-1/2" Chuck	15	6.8	16 3/8	416	1 7/16	36	55
22KA1	725	9/16	14	7/16	11	Stub Taper, Th'ded	5/64-1/2" Chuck	15 1/4	6.92	17 5/8	448	1 7/16	36	55
22MA2	350	7/8	22	5/8	16	No. 2 Morse Taper Socket		14 1/4	6.46	18 5/8	473	1 7/16	36	55
22NA1	280	7/8	22	5/8	16	Stub Taper, Th'ded	5/8" Square Drive	16 1/2	7.48	20 3/8	517	1 7/16	36	55
22KWA1	725	—	—	—	—	Stub Taper, Th'ded	1/2" Shank Wood	14 1/4	6.46	17 1/4	438	1 7/16	36	55

Series 22 Drills have 3/8" NPT air inlet, 1/2" (13 mm) size hose recommended. Performance figures are at 90 psi (620 kPa) air pressure. If feed screw is ordered separately and installed, length of feed is 2 1/2" (63 mm).

20 Series Models

Features

- Small side-to-center distance is ideal for close-quarter applications
- Bearing support in motor and gearing for efficient operation
- Ratchet handle feed screw for compactness

Standard Equipment

- Self-closing Nonreversible
- Lever Throttle
- Feed Screw and Ratchet Handle (R30-48 Ratchet Handle)
- Built-in Lubricator



Model	Free Speed rpm	Capacity in Steel				Morse Taper Socket	Length of feed		Weight		Spindle	Height over Length		Side to Center Distance		CFM	
		Drilling in.	Reaming in.	mm	mm		lb.	kg	in.	mm		in.	mm	in.	mm		
20LB	310	7/8	22	5/8	16	No. 2 Morse Taper	1 3/4	44	14 3/4	6.69	6 7/8	175	21 3/4	552	1 3/16	30	46
20SLB	310	7/8	22	5/8	16	No. 3 Morse Taper	1 3/8	35	17 3/4	8.05	6 7/8	175	21 3/4	552	1 3/16	30	46

Construction Tools Large Drills

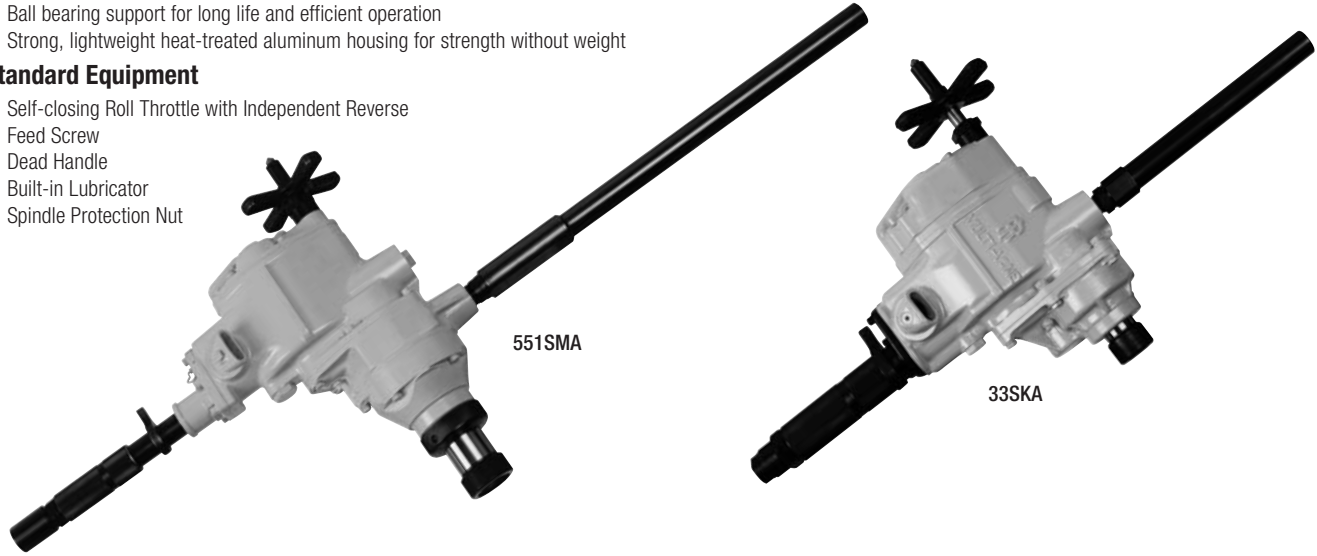
33, 44, and 551 Series Models

Features

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

Standard Equipment

- Self-closing Roll Throttle with Independent Reverse
- Feed Screw
- Dead Handle
- Built-in Lubricator
- Spindle Protection Nut



Model	Free Speed rpm	Capacity in Steel				Morse Taper Socket	Length of feed		Weight		Height over Spindle		Side to Center Distance		CFM
		Drilling in.	mm	Reaming in.	mm		in.	mm	lb.	kg	in.	mm	in.	mm	
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
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
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 ⁵ / ₁₆	49	85
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
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
551SOA	77	Heavy		Heavy		No. 5 Morse Taper	5	127	69 ¹ / ₂	31.5	21 ⁷ / ₈	556	2 ¹⁵ / ₁₆	75	160

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.

Performance figures are at 90 psi (620 kPa) air pressure.

Large Drills Accessories

Description	Part No.
Series 22	
Suspension Ring	T05-365
Feed Screw	T04-A3
No. 2 Morse Taper Socket	DE-323A-2
No. 3 Morse Taper Socket	DE-323A-3
0 to 1/2" (0 to 13mm)	—
3-Jaw Key Chuck	DE-99C 5/64-1/2
1/2" Square Dr. Socket Adapter	DE-215A†
5/8" Square Dr. Socket Adapter	DE-215B
Chuck Nut*	DE-347A
Wood Bit Chuck	R22W-151
Wood Bit Chuck Wrench	K-27
Series 22 and 33	
Nonreversible lockout spacer kit	R22/R33-K518

*Required whenever any spindle equipment is to be mounted on Series 22 Drills. Unless a Drill has threaded spindle (will not fit 22MA2, 2XMA2), none of the above accessories can be added to the spindle.

See specifications for Series 2X and 22 Drills to verify that spindle is threaded before ordering above spindle equipment.

†Availability subject to prior sale.

Socket Adapters for Large Drills

Square Drive in.	Morse Taper No.	Part Number
3/4	3	R4J-214
1	5	R5SM-214

Large Drills Accessories

Description	Series 33S Part Number	Model 44SMA Part Number	Series 551S Part Number
Grip Handle	R33H-A41	TB-A41	TA-A41
Suspension Ring	TC-365	TB-365	TC-365
Breast Plate	TC-A79	Disc	
Feed Screw Cover	TC-461	TB-461	TA-461
Feed Screw	R3H-A291	Disc	TA-A291
Chuck Nut*	T12-347	T01-347	TISE-347
Wood Bit Chuck for 1/2" (13 mm) dia. shank bits (#3 MT)	R33SW-151-1/2	—	—
Wood Bit Chuck for 5/8" (16 mm) dia. shank bits (#3 MT)	R33SW-151-5/8	—	—

*Required whenever any spindle equipment is to be mounted on any spindle.

Construction Tool Merchandiser

Contractors can look for this display at their local IR distributor to provide the best solution in air compressors and construction tools. This compact and professional display is aimed at supporting same store sales and rental growth for dealers while assisting contractors in selecting a wide variety of IR tools and accessories to complete a multitude of jobs.



(For more details, see form no. 52837)

Tool Stands

When looking over tools to rent or buy, you might notice it displayed on this sturdy stand which positions the tool at a slight angle. Available in 3/4 in. shank or 1 in. shank.

- Part No.: MX-28 = 1 in. shank
- Part No.: DT-28 = 3/4 in. shank



Manual Chain Hoist Display Stand

This functional stand makes it easy to display and select a wide variety of manual chain hoists. Item number DS-1.



Ratchet Puller Display

This professional display presents and promotes customer selection of all-purpose ratchet pullers. Item number DSP-1.



Construction Tools Warranty

WARRANTY

CONSTRUCTION TOOLS

Ingersoll-Rand warrants to the original user its construction tool products to be free of defects in material and workmanship for a period of one year from the date of purchase. IR will repair, without cost, any Product found to be defective, including parts and labor charges, or at its option, will replace such Products or refund the purchase price less a reasonable allowance for depreciation, in exchange for the Product. Repairs or replacements are warranted for the remainder of the original warranty period.

If any product proves defective within its original one year warranty period, it should be returned to an appropriate Ingersoll-Rand Service Distributor, transportation prepaid with proof of purchase or warranty card.

This warranty does not apply to Products which IR has determined to have been misused or abused, improperly maintained by the purchaser: or where the malfunction or defect can be attributed to the use of non-genuine IR parts.

IR makes no other warranty, and all implied warranties including any warranty of merchantability or fitness for a particular purpose are limited to the duration of the expressed warranty period as set for the above. IR's maximum liability is limited to the purchase price of the Product and in no event shall IR be liable for any consequential, indirect, incidental, or special damages of any nature arising from the sale or use of the Product, whether based on contract, tort, or otherwise.

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