

Drilling & Tapping

- Wide selection from a single source.
- Durable designs.

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Model HC450	3	Up to 4 3/4"	6.3
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Tapping			
Mini-Tapping	1	3/4 - 1"	6.5
Standard	1	3/4 - 2"	6.6



Hole Cutting Tools



Model HC300

Specifications

- Motor: Universal, 110V or 230V 25-60Hz 11 amp, 1.2 HP, UL/CSA listed.
- RPM: 360 (no load).
- Hole Cutting Capacity: up to 3".
- Chuck Size: 1/16" - 1/2".
- Pipe Diameter Mounting Range: 1 1/2" - 8".
- Weight: 31 lbs..
- Height: 12.8".
- Length: 11.9".
- Width: 13.2".



Model HC300

The RIDGID Model HC300 Hole Cutting Tool is designed to cut holes up to 3" diameter into steel pipe. The multiple hole size allows the use of Mechanical T's®, Hookers®, Vic-O-Lets™, Weld-O-Let™ and other fittings for branching unpressurized pipelines.

The HC300 features a 1/2" capacity chuck to accommodate all sizes of holes up to 3" diameter and standard hole saw arbors up to 7/16" Hex (1/2" chuck size). An integral motor and gear reduction optimizes the performance and saw life in the capacity range. A single-feed handle and ON/OFF switch allows for easy operation. The compact two-piece design allows the HC300 to be used in tight quarters and difficult-to-reach locations.

The Model HC300 offers great features that translate into unparalleled field and shop performance.

- Quick Connecting Two-piece Design. This unique design allows for easy mounting, transport and set up. In addition, weighing only 31 lbs., the unit can be broken down into two lighter weight units for maximum transport and operation comfort. This is particularly useful when working off a ladder or overhead.
- Single-hand Chain Latching. The Model HC300 features a patented spring-loaded chain that saves time and significantly aids set up and operation.
- Ergonomic Design. With all controls at the operator's fingertips, the tool has been designed for maximum productivity.
- High Speed. With a powerful 1.2HP, 11 amp motor, the Model HC300 delivers 360 RPM to quickly bore holes while optimizing hole saw life.
- Horizontal and vertical flats to ensure perpendicular cutting.

Note: Standard hole saw listing on page 6.4

Standard Equipment

- One (1) Hole Cutting Tool (Base and Motor Assembly).
- One (1) Chuck Key.

Accessories

- Hole Saws.
- R2S Solid Shank Arbor.
- Carrying Case.

Ordering Information

Catalog No.	Model No.	Description	Weight	
			lb.	kg
76777	HC300	3" Hole Cutting Tool 115V	31	14
76787	HC300	3" Hole Cutting Tool 230V	31	14
76792	HC300-J	3" Hole Cutting Tool 100V	31	14
16671	R2S	Solid Shank Arbor	3/4	0.3
84427	-	HC-450/HC-300 Carrying Case	19	8.6

Note: The HC300 is not a hot tapping tool.

Note: Use the R2S Arbor when drilling 1/4" and larger holes.



Model HC450

Specifications

- Motor: Universal, 110V or 220V 25-60Hz 13 amp, 1.2 HP, UL/CSA listed.
- RPM: 110 (no load).
- Hole Cutting Capacity: up to 4¾".
- Chuck Size: 5/8".
- Pipe Diameter Mounting Range: 1¼" to 8".
- Weight: 42 Lbs.
- Height: 11½".
- Length: 17".
- Width: 17".

Model HC450

The RIDGID Model HC450 is engineered for continuous ¼" to 4 ¾" hole cutting in and up to 8" diameter steel unpressurized pipe. The built-in level ensures line up for multiple holes when branching lines using Mechanical T's, Vic-O-Lets or welded saddles. Dual-side feed handles and switches provide easier operation from any angle. In addition, the HC450's heavy-duty chuck accommodates 1/8" to 5/8" arbors. The HC450 is ideal for mechanical, industrial maintenance and fire protection contractors since it cuts holes into a wide variety of pipe materials. No off-the-shelf drill-based hole cutter compares in performance or durability to the rugged purpose-built Model 450:

- 13 amp 1.2 HP worm-gear driven motor delivers unmatched hole cutting power for schedule 10, 40 and 80 pipe.
- Engineered for ¼" to 4 ¾" continuous dry or oiled hole cutting.
- Quickly mounts onto 1¼" to 8" diameter pipe.
- RPM maximizes holesaw life and does not spray lubricant or chips.
- Only 11½" high for low clearance jobs.
- Dual-side controls provide easy operation.
- GFCI and a built-in breaker for operator protection.
- Chuck accommodates 1/8" to 5/8" arbors.
- Two carrying handles ease mounting and alignment.
- Built-in level for multiple hole alignment.

Standard Equipment

- One (1) Hole Cutting Tool.
- One (1) 5/8" Arbor only for Hole Saws.
- One (1) Chuck Key.

Ordering Information

Catalog No.	Model No.	Description	Weight	
			lb.	kg
57592	HC450	4 ¾" Hole Cutting Tool 110V	42.0	19.0
57597	HC450	4 ¾" Hole Cutting Tool 220V	42.0	19.0
57602	HC450-J	4 ¾" Hole Cutting Tool – Japan 100V	42.0	19.0

Note: The HC450 is not a hot tapping tool.

Accessories

Catalog No.	Model No.	Description	Weight	
			lb.	kg
84427	—	HC450 Carry Case	19.0	8.6
59502	R4	5/8" Arbor only for Hole Saws	¼	.1



For standard hole saws see page 6.4

Hole Saws



Variable Pitch Hole Saws

Outperform and outlast traditional standard pitch models. Bi-metal construction with teeth made from specially hardened type M3 high speed steel. The varying teeth height and gullet sizes result in much faster cutting and longer life. For wood; mild, tool and stainless steels; cast iron; brass and aluminum. 51 sizes from 9/16" (14mm) to 6" (152mm).

- Depth of cut: 1 1/8" (28 mm).
- Use RIDGID Thread Cutting Oil on all metal except cast iron.

Hole Saw Arbors

Hole saw arbors with high-speed pilot drills are built for use with portable drills and drill presses. The saws are quickly replaced without tools and without removing the arbor from the chuck.



Catalog No.	Model No.	Saw Size & Hole Diameter		Nominal Pipe Sizes (in.)		Nominal Pipe Sizes (mm)	
		in.	mm	Tap Drill Size	Body Drill Size	Tap Drill Size	Body Drill Size
52755	M14	9/16	14	—	—	—	—
52760	M16	5/8	16	—	—	—	—
52765	M17	1 1/16	17	—	—	—	—
52770	M19	3/4	19	—	3/8	—	10
52775	M22	1 3/16	21	—	—	—	—
52780	M24	7/8	22	3/4	1/2	20	12
52785	M25	1 1/16	24	—	—	—	—
52790	M27	1	25	—	—	—	—
52795	M28	1 1/16	27	—	—	—	—
52800	M29	1 1/8	29	1	3/4	25	20
52805	M30	1 3/16	30	—	—	—	—
52810	M32	1 1/4	32	—	—	—	—
52815	M33	1 5/16	33	—	—	—	—
52820	M35	1 3/8	35	—	1	—	25
52825	M37	1 7/16	37	—	—	—	—
52830	M38	1 1/2	38	1 1/4	—	32	—
52835	M40	1 9/16	40	—	—	—	—
52840	M41	1 5/8	41	—	—	—	—
52845	M43	1 11/16	43	—	—	—	—
52850	M44	1 3/4	44	1 1/2	1 1/4	40	32
52855	M46	1 13/16	46	—	—	—	—
52860	M48	1 7/8	48	—	—	—	—
52865	M51	2	51	—	1 1/2	—	40
52870	M52	2 1/16	52	—	—	—	—
52875	M54	2 1/8	54	—	—	—	—
52880	M57	2 1/4	56	2	—	50	—
52885	M59	2 5/16	59	—	—	—	—
52890	M60	2 3/8	60	—	—	—	—
52895	M64	2 1/2	64	—	2	—	50
52900	M65	2 9/16	65	—	—	—	—
52905	M67	2 5/8	67	—	—	—	—
52910	M70	2 3/4	70	—	—	—	—
52915	M73	2 7/8	73	—	—	—	—
52920	M76	3	76	—	2 1/2	—	64
52925	M79	3 1/8	79	—	—	—	—
52930	M83	3 1/4	83	3	—	75	—
52935	M86	3 3/8	86	—	—	—	—
52940	M89	3 1/2	89	—	—	—	—
52945	M92	3 5/8	92	—	3	—	75
52950	M95	3 3/4	95	3 1/2	—	90	—
52955	M98	3 7/8	98	—	—	—	—
52960	M102	4	102	—	—	—	—
52965	M105	4 1/8	105	—	3 1/2	—	90
52970	M108	4 1/4	108	—	—	—	—
52975	M110	4 3/8	110	—	—	—	—
52980	M114	4 1/2	114	—	4	—	—
52985	M121	4 3/4	121	—	—	—	—
52990	M127	5	127	—	—	—	—
52995	M140	5 1/2	140	—	—	—	—
53000	M152	6	152	—	—	—	—

Note: All weights are under 1 1/2 lbs. (0.68 kg).

Catalog No.	Model No.	For Chuck Size	Fits Saw Nos.	Shank Size
53065	R0	1/4", 3/8" (6, 10 mm)	M14 – M19	1/4" (6 mm) Round
53070	R1	1/2" (12 mm)	M14 – M19	7/16" (11 mm) Hex
53075	R2	1/2" (12 mm)	M20 – M96	7/16" (11 mm) Hex
53080	R3	5/8" (15 mm)	M20 – M96	5/8" (15 mm) Hex
53085	E3986 1/4" Replacement Pilot Drill with Slotted Shank			

Note: All weights are under 1 lb. (0.45 kg).

Tapping Tools



Model RT1000



Model RT1000

The Model RT1000 Mini Tapping Tool is ideal for branching pressurized water lines. With 1" tapping capacity and the ability to drill into most pipe materials, the lightweight compact and corrosion-resistant design of the RT1000 is the perfect tool for branching pressurized pipe when system shut down is out of the question.

Features

- Compact and lightweight, the tool is great for tight quarters and awkward locations.
- Sturdy machined construction and corrosion-resistant materials combine to provide dependable lifelong operation.
- Independent cutter feed mechanism gives the operator full control of drilling to optimize cutter performance and service life.
- Taps steel, cast iron, ductile iron and plastic pipe.
- Coupon retaining bits give you the confidence that the coupon will not be dropped in the pipe, preventing medium contamination or possible damage of downstream equipment.

Specifications

- Tapping Capacity: ¾ - 1".
- Mounting: Saddle, Welded Nipple, Weld-o-let®, Thread-o-let®.
- Activation: Hand Ratchet, Air Ratchet, Right angle Drill.
- Cutter Feed: Rotation of sleeve around an Acme threaded barrel.
- Pressure: Water, 150 psig @ 100°F.
- Steam, Air – 100 psig @ 370°F.

Standard Equipment

- Model RT1000 Mini Tap Tool.
 - RT1000 Tapping Tool Only.
 - ¾", 1" CTS Corporation Adapter.
 - Small Shaft Extension.
 - Small Saw Arbor.
 - ¼" Pilot Bit.
 - Ratchet Wrench.
 - (2) Spud Wrenches.
 - Tool Box.

Note: Cutters are not included.

Note: The RT1000 uses the same drills and hole saws as the RT3422 and the MLT3401 saddle tapping tool. The RT1000's maximum capacity is 1".

Ordering Information

Catalog No.	Model No.	Description	Weight	
			lb.	kg
83567	RT1000	RT1000 Tapping Tool CTS Set	16	7.3
83302	RT1000	RT1000 Tapping Tool Only	6	2.9
83307	–	RT 1000 Tool Box	7	3.0
76022	–	Ratchet Wrench	2	0.4
83317	–	¾" CTS Adapter	0.3	0.2
83322	–	1" CTS Adapter	0.3	0.2
83337	–	¾" NPTM Adapter	0.3	0.2
83347	–	1" NPTM Adapter	0.3	0.2
83327	–	¾" Mueller® 110 Compression Adapter	0.5	0.2
83572	–	1" Mueller 110 Compression Adapter	0.5	0.2

Note: CTS = Copper Tube Size. NPTM/NPTF = National Pipe Thread Male/Female

Cutters

Hole Saws	Model No.	DIA	Type
52760	M16	5/8"	Bi-Metal
52780	M24	7/8"	Bi-Metal
76267	–	5/8"	Steel Shell
76272	–	7/8"	Steel Shell
76292	–	5/8"	CI/DI Bit*
76297	–	7/8"	CI/DI Bit*
76317	–	5/8"	Plastic Shell
76322	–	7/8"	Plastic Shell

**CI/DI = Cast Iron/Ductile Iron*

Tapping Tools



Model RT3422

Accessories

Catalog No.	Description
76017	RT 3422 Tool Box
76022	1 ¹ / ₁₆ " Ratchet Wrench
Pilots	
76027	Coupon Retaining 1/4" Pilot
76032	Coupon Retaining 3/8" Pilot
Hole Saw Arbors	
76037	Small Hole Saw Arbor 5/8"-1 ¹ / ₁₆ "
76042	Large Hole Saw Arbor Asm. 1 ¹ / ₁₆ "-1 ³ / ₄ "
Shaft Extensions	
76047	Small Shaft Extension 5/8"-1 ¹ / ₁₆ "
76052	Large Shaft Extension 1 ¹ / ₁₆ "-1 ³ / ₄ "
Valve Adapters	
76057	CTS 3/4" Female
76067	CTS 1" Female
76072	CTS 1 ¹ / ₄ " Female
76077	CTS 1 ¹ / ₂ " Female
76082	CTS 2" Female
83997	3/4" Mueller 110
84002	1" Mueller 110
84007	1 ¹ / ₂ " Mueller 110
84012	2" Mueller 110
76132	NPT 3/4" Male
76137	NPT 1" Male
76142	NPT 1 ¹ / ₄ " Male
76147	NPT 1 ¹ / ₂ " Male
76152	NPT 2" Male

NPT Sets available only with steel, male valve adapters.

Model RT3422

The Model RT3422 is designed for branching pressurized water, steam and natural gas mains. With up to 2" capacity, corrosion-proof design, ability to handle most types of material and lightweight, the Model RT3422 is the tool to meet your tapping needs.

Features

- Easy to use. At only 21", this lightweight and compact tool is great for tight quarters and awkward locations.
- Heavy-Duty Design. Sturdy machined, corrosion-resistant materials for dependable lifelong benefits.
- Built-in bleed valve. Allows for easy purge of chips.
- Independent cutter feed gives the operator total independent control of the cutter feed rotation for optimal saw life.
- Taps a variety of materials. The RT3422 is capable of tapping into steel, cast iron, ductile iron and plastic pipe.
- Versatility. The RT3422 is capable of tapping mains of:
 - Water up to 500 psig.
 - Steam, air and natural gas up to 150 psig.
- Coupon retaining bits. Exclusive pilot bits give you the confidence that the coupon will not be dropped in the pipe, preventing medium contamination or possible damage of downstream equipment.

Specifications

- Tapping Capacity: 3/4" - 2"
- Mounting: Saddle, Welded Nipple, Weld-o-let, Thread-o-let.
- Cutter Travel: 14"
- Activation: Hand Ratchet, Air Ratchet, Right angle Drill.
- Cutter Field: Rotation of sleeve around an Acme threaded barrel.
- Pressure: Water, 500 psig @ 100°F Steam, Air and Natural Gas – 150 psig @ 370°F.

Ordering Information

Catalog No.	Model No.	Description	Weight	
			lb.	kg
75982	RT3422	Tapping Machine Only	18	8.2
75992	RT3422	3/4" - 2" NPT Set (Male)	30	13.6
91192	RT3422	3/4" - 2" CTS Set (Flared)	30	13.6

Each RT3422 complete set comes with:

The RT3422 sets include RT3422 tapping tool with bleed valve, shaft extensions, heavy-duty hole saw arbors, 1/4" and 3/8" coupon retaining pilot bits, ratchet wrench, (2) spud wrenches, and 5 valve adapters in a steel tool box. Cutters are available separately.

Cutters

Hole Saws	Model No.	DIA	Type
52760	M16	5/8"	Bi-Metal
52780	M24	7/8"	Bi-Metal
52800	M29	1 ¹ / ₈ "	Bi-Metal
52820	M35	1 ³ / ₈ "	Bi-Metal
52850	M44	1 ³ / ₄ "	Bi-Metal
76267	–	5/8"	Steel Shell
76272	–	7/8"	Steel Shell
76277	–	1 ¹ / ₈ "	Steel Shell
76282	–	1 ³ / ₈ "	Steel Shell
76287	–	1 ³ / ₄ "	Steel Shell

Hole Saws	Model No.	DIA	Type
76292	–	5/8"	Cl/DI Bit
76297	–	7/8"	Cl/DI Bit
76302	–	1 ¹ / ₈ "	Cl/DI Shell
76307	–	1 ³ / ₈ "	Cl/DI Shell
76312	–	1 ³ / ₄ "	Cl/DI Shell
76317	–	5/8"	Plastic Shell
76322	–	7/8"	Plastic Shell
76327	–	1 ¹ / ₈ "	Plastic Shell
76332	–	1 ³ / ₈ "	Plastic Shell
76337	–	1 ³ / ₄ "	Plastic Shell

Note: Cutter diameter is 1/8"-1/4" smaller than the diameter of the hole being cut.