RT1000

Tapping Tool

OPERATOR'S MANUAL





WARNING!

Read this Operator's Manual carefully before using this tool. Failure to understand and follow the contents of this manual may result in extensive property damage and/or serious personal injury.



Test Equipment 99 Washington Street Depot Melrose, MA 02176 Phone 781-665-1400 Toll Free 1-800-517-8431

General Safety Information

WARNING! READ AND UNDERSTAND ALL INSTRUCTIONS. FAILURE TO FOLLOW ALL INSTRUCTIONS LISTED BELOW MAY RE-SULT IN PROPERTY DAMAGE AND/OR SERIOUS PERSONAL INJURY.

SAVE THESE INSTRUCTIONS!

Work Area Safety

- Keep your work area clean and well lit. Cluttered work area invites accidents.
- Keep bystanders, children, and visitors away while operating a tool. Distractions can result in improperly using the tool.

Personal Safety

- Stay alert, watch what you are doing and use common sense when operating a tapping tool. Do not use tool while tired or under the influence of drugs, alcohol, or medications. A moment of inattention while operating tools may result in serious personal injury.
- Dress properly. Do not wear loose clothing or jewelry. Contain long hair. Keep your hair, clothing, and gloves away from moving parts. Loose clothes, jewelry, or long hair can be caught in moving parts.
- Do not overreach. Keep proper footing and balance at all times. Proper footing and balance enables better control of the tool in unexpected situations.
- Use safety equipment. Always wear eye protection. Dust mask, non-skid safety shoes, hard hat, or hearing protection must be used for appropriate conditions.

Tool Use and Care

- Do not force tool. Use the correct tool for your application. The correct tool will do the job better and safer at the rate for which it is designed.
- Store idle tools out of the reach of children and other untrained persons. Tools are dangerous in the hands of untrained users.
- Maintain tools with care. Keep cutting tools sharp and clean. Properly maintained tools with sharp cutting edges are less likely to bind and are easier to control.
- Check for misalignment or binding of moving parts, breakage of parts, and any other condi-

tion that may affect the tools operation. If damaged, have the tool serviced before using. Many accidents are caused by poorly maintained tools.

- Use only accessories that are recommended for your Tapping Tool. Accessories that may be suitable for one tool may become hazardous when used on another tool.
- Keep tool dry and clean; free from oil and grease. Allows for better control of the tool.

Service

- Tool service must be performed only by qualified repair personnel. Service or maintenance performed by unqualified repair personnel could result in injury.
- When servicing a tool, use only identical replacement parts. Follow instructions in the Maintenance Section of this manual. Use of unauthorized parts or failure to follow maintenance instructions may create a risk of injury.

Specific Safety Information

A WARNING Read this operator's manual carefully before using the RT1000 Tapping Tool. Failure to understand and follow the contents of this manual may result in extensive property and environmental damage and/or serious personal injury.

Call the Ridge Tool Company, Technical Service Department at (800) 519-3458 if you have any questions.

Operator Training

Cutting into pipe containing liquids or gases under pressure is potentially hazardous. Correct procedures must be followed in the use of this equipment to maintain a safe working environment and prevent serious personal injury.

No person should use this tool who is not fully trained in the proper operating procedure and who is not fully aware of the potential hazards connected with work on pipe containing liquids or gases under pressure.

The purchaser of this equipment is responsible for how this equipment is used and the training and competence of the operators.

Should any difficulty arise at any time in the use of this equipment, please contact Ridge Tool immediately!



Do not exceed pressure and temperature ratings of the tool and any attachment, valve or fitting. Only tap into lines that contain specified media.

Model RT1000 Tapping Tool

Water: 200 psig @ 100°F (40°C) Air, Steam, Natural Gas: 100 psig @ 370° F (172°C)

Tapping Tool Safety

- Only trained personnel should use this tapping tool. Incorrect use of this tool can result in serious personal injury, environmental damage, and/or property damage.
- Always wear eye protection. Cutters and drills are hard and can shatter.
- **Do not exceed recommended pressure ratings.** Attempting to tap into main with pressures beyond the maximum limits of this tool or a fitting may result in their failure.
- Only tap into pressurized mains that carry water, air, steam or natural gas. Other media may attack the seals of this tool.
- When using power tools to drive this tapping tool, understand and follow all the safety instructions associated with that power tool. Air power ratchets are generally a safer choice due to the inherent explosion and shock hazards associated with electrical tools.
 - Electrical tools should not be used for natural gas taps. Only use air or manual ratchets. Electrical tools cause sparks which may ignite the gas.
 - Grounded electrical tools should be plugged into a properly grounded outlet. If tool should electrically malfunction or breakdown, grounding provides a low resistance path to send electricity away from the user.
 - Electrical tools should be plugged into an outlet protected with a Ground Fault Circuit Interrupter (GFCI). Reduces risk of electrical shock.

- Use only right angle electrical drills or air ratchets to rotate the cutter. Tool must be fed at a controlled rate. Failure to use a right angle drive or to carefully control the tool feed rate may result in the cutter suddenly stopping which will cause the power tool driver to suddenly twist.
- Main being tapped must be securely mounted to prevent any movement. Movement could cause tool breakage during the tapping operation.
- Follow all applicable regulations and safety precautions regarding the work area.
 - When working below grade, have an adequate escape route before starting the tap. Such precautions reduce the risk of injury.
 - When working on a scaffold or lift, the operator, tool, and drive assembly should all be properly secured. Will prevent injury in the event of a fall or dropping a tool.
- Do not use this tool to support the operator. Could result in tool breakage or malfunction.
- Tool is made to tap into pressurized lines. Follow instructions in operator's manual on tool uses. Other uses or modifying this tool for other applications may increase the risk of injury.

Description, Specifications and Standard Equipment

Description

The Model RT1000 Tapping Tool is designed to tap pressurized pipe systems using a saddle-mounted valve or welded nipple on steel, plastic, ductile iron and cast iron pipe. The RT1000 is capable of tapping water lines up to 200 psi and steam, natural gas and air up to 100 psi. Because of its weight, the RT1000 can be effectively used for branching 3/4" - 1" lines. The cutter/drill is rotated by an 11/16" hand ratchet or can be operated by an air ratchet or right angle drill. A self cleaning acme threaded barrel feeds the cutter into the pipe and resists the force of the pressurized pipe when the cut is through.

Specifications

Mounting.....Saddle Mount, Welded nipple, Weld-O-Let, Thread-O-Let

Cutter Travel......63/4" Max

RIDGID RT1000 Tapping Tool

Cutter Actuation	Hand Ratchet, Air Ratchet or
	Right Angle Drill
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- Type of PipeSteel, Plastic, Ductile Iron, Cast Iron
- Cutter FeedRotation of sleeve around acme threaded barrel
- PressureWater 200 psig @ 100°F. Steam, Air, Natural Gas 100 psig @ 370°F
- Weight6 lbs. (Tool and Ratchet only)

Standard Equipment

RT1000 Tool OnlyTool Body with Shaft

- RT1000 3/4"-1"
- CTS Set.....Tool body with shaft Ratchet wrench Tool box 3/4" – 1" CTS adapter 2 Spud Wrenches Hole Saw Adapters

Cutters and NPT/BSPT adapters available separately. See Appendix 1, Parts List and Accessories.

Operating Instructions

Planning The Tapping Operation

A WARNING Cutting into pipe containing liquids or gases under pressure is potentially hazardous. Correct procedures must be followed in the use of this equipment. Only trained personnel should use this tapping tool.

To prevent extensive property damage and/or serious injury, proper planning of the tapping operation is required. The following procedure should be followed every time the tapping tool is used.

1. DETERMINE EXACTLY WHICH PIPE NEEDS TO BE TAPPED INTO. Follow the pipe as far as possible to ensure it is the pipe that requires tapping. Record the media and the pressure on a copy of the worksheet, Appendix II, at the back of this manual.

A WARNING Do not exceed pressure and temperature ratings of the tool and any attachment, valve or fitting. Only tap into lines that contain water, air, steam or natural gas.

Water: 200 psig @ 100°F (40°C)

Air, Steam, Natural Gas: 100 psig @ 370°F (172°C)

- 2. DETERMINE EXACTLY WHERE THE PIPE NEEDS TO BE TAPPED. Consider not only the best route for the new line but also the effect that any chips from the tapping operation could have on downstream equipment. Consider the orientation of the tap, tapping the top of the pipe may drop chips into the tapped pipe whereas tapping the bottom of the pipe will tend to drop the chips back into the tool.
- 3. DETERMINE WHETHER A SERVICE SADDLE OR A WELD-IN-PLACE THREAD-O-LET[™] OR WELD-O-LET[™] WILL BE USED TO MOUNT THE VALVE TO THE MAIN. Consider the advantages and disadvantages of each type. Record this connection data on the worksheet.
- NOTE! The "Thread-O-Let[™]" or "Weld-O-Let[™]" may only be welded to compatible metal pipe. Although Thread-O-Lets may have a pressure rating, the strength of the weld to the pipe is virtually impossible to certify without x-rays. The media in the pipe may also adversely affect weld penetration due to chilling. In addition, weld may penetrate far enough into the pipe to allow the pressure in the pipe to blow through the molten weld puddle.

A service saddle may be used on any type of pipe that has a compatible outside diameter. Insure the saddle pressure rating is equal to or greater than the pipe system.

- 4. SELECT WHICH "CORPORATION STOP" OR VALVE IS TO BE USED. Only a full port ball, plug or safety valve will work. The valve must meet following criteria:
 - Must have an adequate pressure rating.
 - Made of material compatible with the media.
 - Must allow the cutter to pass through the valve. This should be checked prior to mounting the valve.
- NOTE! A corporation stop is a valve with a square lug for a wrench instead of a handwheel to open and close the valve. This is to ensure that the valve is not operated inadvertently or by unauthorized personnel. Typically, corporation stops have male NPT inlet threads that screw directly into a service saddle or "Thread-O-Let" without the need for an intermediate "close nipple" as an adapter.

Assembling the Tool

A WARNING To prevent extensive property damage and/or serious injury, proper assembly of the

Valve Adapter Selection										
Valve Size	Bore Size	CTS Adapter	NPT Female Adapter	NPT Male Adapter	BSPT Female Adapter	BSPT Male Adapter	M#110 Female Adapter	Pilot Size	Saw Adapter	Remarks
3/4″	0.625 0.688	83317	83332	83337	84437	84432	83327	0.250	0.250	Preferred Configuration
1″	0.750 0.813 0.875 0.938	83322	83342	83347	84447	84442	83572	0.250	76037	Preferred Configuration



Tapping Tool is required. The following procedure should be followed to assemble this tool:

- 1. Select the correct valve adapter, pilot drill, extension, and saw adapter from the Valve Adapter Chart *(Chart 1)*. The Flow Chart *(Chart 2)* will assist in determining the required equipment to perform the tap.
- 2. Extend the tool by turning the sleeve counter-clockwise.
- 3. Inspect the o-ring seal in the valve adapter and replace if necessary.
- 4. Holding the bronze feed screw by the flats, hand-assemble the valve adapter onto the bronze feed screw. Operator will feel first the seal engaging and then feel the adapter reach an abrupt stop as the bronze feed screw "bottoms out" in the valve adapter (*Figure 1*). Collapse the tool by turning the sleeve clockwise.



Figure 1 – Assembling Valve Adapter Onto Feed Screw

RIDGID RT1000 Tapping Tool

 Select cutter from Chart 3. The pilot drill and hole saw adapter may not be required depending on the actual cutter selected. If the selected cutter requires the hole saw adapter, screw it into the end of the extension hand-tight (*Figure 2*).



Figure 2 – Assembling Hole Saw Adapter

RIDGID Tapping	Tool	Cutter	Selection	Chart
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Bore Size	Fractional Size (Inches)	RIDGID Bi-Metal Hole Saw	RIDGID Steel Cutter	RIDGID CI/DI Drill	RIDGID PVC Cutter
0.625	5/8	M16-R10	76267	76292	76317
0.688	11/16	M17-R11			
0.750	3/4	M19-R12			
0.813	13/16	M21-R13			
0.875	7/8	M22-R14	76272	76297	76322

Chart 3 – Cutter Selection Chart

6. Inspect the selected cutter to ensure that it is in good working order and hand-screw it into the hole saw adapter or directly into the tool's spindle as required *(Figure 3)*.



Figure 3 – Assembling Cutter

- 7. Inspect the selected pilot drill to ensure that it is in good working order. The purpose of the pilot drill is to capture the slug when using a hole saw or steel cutter. Pay attention to the coupon retention device, as the coupon may not be captured if the device is damaged.
- NOTE! Do not use pilot drill with PVC cutters or the CI/DI drills.
- 8. Insert this pilot drill into the hole saw adapter. Secure the pilot drill in place with the set screw positioned on the flat of the pilot and firmly tighten (*Figure 4*).



Figure 4 – Installation Of Pilot Drill

- Attach the selected service saddle to the main in accordance with the manufacturer's specifications or weld the selected "Thread-O-Let[™]" or "Weld-O-Let[™]" to the main in accordance with all applicable welding standards.
- 10. Apply pipe sealant to the threads on the "corporation stop" or valve and tightly thread it into the saddle or "Thread-O-Let[™]". Ensure the valve is in the CLOSED position.

Determining Feasibility Of The Tap

A WARNING Improper measurement may result in tapping through the bottom of the pipe. To prevent extensive property and environmental damage, fire and/or serious injury, follow this procedure to determine if the tap has been properly planned.

1. Measure the distance from the datum of the valve adapter rear face to the end of the sleeve. As shown in *Figure 5* it should be about 1/8".



Figure 5 – Measuring 1/8" Offset

2. Unscrew the sleeve back up the bronze barrel until it stops. Measure the distance from a datum such as the wrench flats on the feed screw to the end of the sleeve (*Figure 6*). Subtract the distance from the previous step (1) from this distance. The result is $6^{3}/4''$ full stroke. Note that the valve adapter/cutter combinations affects stroke distance. Record the stroke in the worksheet.



Figure 6 – Measuring Full Stroke Distance

3. Measure the distance from the surface of the pipe to the outlet end of the valve as shown in *Figure 7*. This is the minimum amount of stroke required before making contact with the pipe. (In the example shown it is 4¹/₂") Record this dimension in the worksheet. If this distance is within 1" of the stroke distance from Step 2, then this operation must be aborted and the Tapping Tool reconfigured for a different valve and/or saddle.



Figure 7 – Measuring Valve Stand-Off Distance – Minimum Stroke

4. Measure the distance from the far surface of the pipe to the outlet end of the valve as shown in *Figure 8*. This is the maximum amount of stroke required to break through the far side of the pipe. (In the example shown, it is 10¹/₂") Record this dimension in the worksheet. If this distance is less than the stroke distance from Step 3 then the Tapping Tool has enough travel to penetrate the far side of the pipe.



Figure 8 – Measuring Valve Stand-Off Distance – Maximum Stroke

RIDGID RT1000 Tapping Tool

A WARNING If Tapping Tool has sufficient travel to penetrate the far side of the pipe, extensive care must be taken during the tapping operation. Be aware of the unusable length of the stroke. Penetrating the far side of the pipe could result in extensive property damage and/or serious injury.

Tapping Into The Main

WARNING



- Do not exceed pressure and temperature ratings or the tool and any attachment, valve or fitting. Only tap into lines that contain water, air, steam or natural gas.
- Always wear eye protection to protect your eyes from dirt and other foreign objects.
- Be sure proper planning of the tapping operation has been performed.
- Follow all applicable regulations and safety precautions regarding work area.
 - When working below grade, have an adequate escape route before starting the tap.
 - When working on a scaffold or lift, the operator, tool and drive assembly should all be properly secured.
 - Main being tapped must be securely mounted to prevent any movement.
- Attach the fully assembled and fully extended tapping tool to the outlet thread of the valve by the valve adapter. Pipe sealant is not required in the temporary assembly between the valve and the valve adapter but it should be snug enough not to leak.
- 2. Open, close and re-open the valve or the "corporation stop" to ensure that the pilot drill does not interfere with the operation of the valve. In the event of interference in closing the valve, the tool will not have stroke to retrieve the cutter pass the valve. In this case, another valve must be used and the whole procedure must be re-started.
- Turn the sleeve clockwise until the cutter contacts the main, and back the sleeve one turn. Using the ratchet wrench, or a power tool, rotate the drive shaft hex

while continually applying pressure by turning the sleeve. Do not apply too much pressure on the cutter. Gentle feeding produces superior cutting and extended cutter life. A WARNING Continue to drill until no resistance is felt to advancing the sleeve. Stop immediately. A WARNING Continuation past this point could cause penetration through the far side of the pipe. This could result in extensive property damage and/or serious injury.

A WARNING When using power tools to drive this tapping tool, understand and follow all safety instructions associated with that power tool. Air power ratchets are generally a safer choice due to the inherent explosion and shock hazards associated with electrical tools.

- Electrical tools should not be used for natural gas taps. Only use air or manual ratchets.
- Grounded electrical tools should be plugged into a properly grounded outlet.
- Electrical tools should be plugged into an outlet protected with a Ground Fault Circuit Interrupter (GFCI).
- Use only right angle electrical drills or air ratchets to rotate the cutter. Tool must be fed at a controlled rate.
- 4. The drilling into the pipe is now complete and the valve, saddle and tool are now under pressure. Turn the sleeve counter-clockwise until the barrel comes to a halt. Close the corporation stop or valve. Should it be difficult to close the valve, rock the valve open and closed until it can be completely shut-off. **AWARNING** Make sure the valve is closed before proceeding.
- 5. Remove the ratchet or power tool from the hex on the drive shaft. Place a wrench on the valve to prevent disconnecting the valve as the adapter is unscrewed with another wrench. The tool will suddenly come free and any media contained in the tool will spill. If the drilled pipe was drained, be aware that the cutter may be hot.
- 6. Attach the new branch to the outlet end of the valve. The valve may now be opened to activate the new system.
- 7. To remove the coupon from the cutter, turn the sleeve clock-wise until the cutter is exposed. Shell cutters have a slot to allow the coupon to be pushed out. Remove the cutter if required.
- 8. Remove the valve adapter, drill or cutter, pilot drill (if used), saw adapter (if used) and extension from the tool. Turn the sleeve clockwise until the tool is fully collapsed. Wipe all the components until clean and dry and store them in the toolbox.

Maintenance Instructions

A WARNING Cleaning and maintenance of this Tapping Tool should only be conducted by a trained service technician.

Tool Disassembly Procedure

- 1. Turn the sleeve clockwise until all the threads of the bronze feed screw are hidden and the tool is fully collapsed. Place the tool horizontally on a table so parts do not fall out.
- 2. Locate and remove the cap screws from the side of the red cap.
- 3. Unscrew the red end cap. Note that any media that has escaped the seal will collect under this cap and may be spilled at this time. Do not remove the "maintenance free" flanged bushing from the end cap unless replacement is intended. If the bearing must be removed, use a 7/8" diameter pin to slowly press the bushing out. Do not use a hammer as this may damage the precision recess in the end cap for the bushing.
- 4. Pull the spindle by pulling it from the cap end and remove it from the tool. Turn the sleeve clockwise until the sleeve separates from the bronze feed screw. This completes the disassembly of the tool.

Part Cleaning Procedure

- 1. Wash the parts in a degreaser tank and wipe each individual part until clean and dry.
- 2. Be careful not to wash parts with materials that will corrode or degrade the parts in any way.

Tool Assembly Procedure

- Inspect the bronze feed screw and sleeve for any damage, replace if required. Lubricate the acme threads on the bronze feed screw with grease. Place bronze feed screw inside sleeve and then turn the sleeve clockwise onto the bronze feed screw until the top end of the bronze feed screw is flush with the sleeve. Place the tool horizontally on a table so parts do not fall out. Lubricate the o-ring that is just inside the top of the bronze feed screw.
- 2. Inspect the spindle/cap assembly for any damage and replace if required. Insert the spindle into the top end of the bronze feed screw female threaded end first. Slide it in as far as it will go and screw it into position.

- 3. To prevent the end cap from being accidentally unscrewed secure it in place with the cap screws in the side of the end cap.
- 4. Wipe tool down to remove excess lubricant and return the tool to the box ready for the next use.

Tool Storage

A WARNING Store the Tapping Tool in a locked area that is out of reach of children and people unfamiliar with tools. This Tapping Tool can cause serious injury in the hands of untrained users.

Service And Repair

The "Maintenance Instructions" will take care of most of the service needs of this tool. Any problems not addressed by this section should only be handled by an authorized RIDGID service technician.

Tool should be taken to a RIDGID Independent Authorized Service Center or returned to the factory. All repairs made by Ridge service facilities are warranted against defects in material and workmanship.

A WARNING When servicing this tool, only identical replacement parts should be used. Failure to follow these instructions may create a risk of extensive property damage, fire and/or serious injury.

Appendix I – Parts List and Accessories

RIDGID Tapping Tool Parts List					
Description	Remarks	Ridgid Catalog #	Package Qty.		
Kits					
RT1000 3/4" TO 1" NPT (male) KIT		83567	1		
Machine					
RT1000 Tapping Tool Asm.	Main Assembly	83302	1		
Sleeve	Part of Asm. T395-A1	83952	1		
End Cap	Part of Asm. T395-A1	83972	1		
Screw, Set, #8 -32 x 1/4″	to lock End Cap against sleeve	83992	10		
Spindle	Part of Asm. T395-A1	83947	1		
Feed Screw O-ring (#0214)	Part of Asm. T395-A1	83962	1		
Feed Screw	Part of Asm. T395-A1	83957	1		
Bushing	Part of Asm. T395-A1	83967	1		
Washer	Part of Asm. T395-A1	76407	10		
Retaining Ring	Part of Asm. T395-A1	76412	10		
Accessories					
Tool Box	For tool and parts	83307	1		
Wrench, Adjustable	RIDGID "Spud Wrench"	31400	1		
Wrench, Ratchet	Lowell	76022	1		
Pilots					
Pilot Drill 1/4″ dia.	for $3/4''$ to $1^{1}/_{4}''$ values	76027	1		
Saw Adapters					
Saw Adapter	for $5/8''$ to $1^{3}/_{16}''$ hole saws	76037	1		
Valve Adapters					
Adapter O-Ring (#0218)	for all valve adapters		10		
CTS 3/4" Female	fits male outlet 3/4" CTS valve	83317	1		
CTS 3/4″ Gasket	for use with 83317	76058	10		
CTS 1" Female	fits male outlet 1" CTS valve	83322	1		
CTS 1″ Gasket	for use with 83322	76068	10		
NPT 3/4" Female	fits male outlet 3/4" NPT valve	83332	1		
NPT 1" Female	fits male outlet 1" NPT valve	83342	1		
NPT 3/4" Male	fits female outlet 3/4" NPT valve	83337	1		
NPT 1" Male	fits female outlet 1" NPT valve	83347	1		
BSPT 3/4" Female	fits male outlet 3/4" BSPT valve	84437	1		
BSPT 1″ Female	fits male outlet 1" BSPT valve	84447	1		
BSPT 3/4" Male	fits female outlet 3/4" BSPT valve	84432	1		
BSPT 1" Male	fits female outlet 1" BSPT valve	84442	1		
M110 3/4" Female	fits male outlet 3/4" CTS valve	83327	1		
M110 3/4″ Gasket	for use with 83327	76068	10		

Appendix I - Parts List and Accessories Cont.

M110 1" Female	fits male outlet 1" CTS valve	83572	1
M110 1″ Gasket	for use with 83572	76073	10
HSS Shell Cutters			
HSS 5/8" Cutter (0.625)	uses 1/2-20 UNF drive threads	76267	1
HSS 7/8" Cutter (0.875)	uses 1/2-20 UNF drive threads	76272	1
Carbide Shell Cutters			
Carbide 5/8" Cutter (0.625)	uses 7/16-20 UNF drive threads	76292	1
Carbide 7/8" Cutter (0.875)	uses 7/16-20 UNF drive threads	76297	1
PVC Shell Cutters			
PVC 5/8" Cutter (0.625)	uses 7/16-20 UNF drive threads	76317	1
PVC 7/8" Cutter (0.875)	uses 7/16-20 UNF drive threads	76322	1
			1



What is covered

RIDGID® tools are warranted to be free of defects in workmanship and material.

How long coverage lasts

This warranty lasts for the lifetime of the RIDGID® tool. Warranty coverage ends when the product becomes unusable for reasons other than defects in workmanship or material.

How you can get service

To obtain the benefit of this warranty, deliver via prepaid transportation the complete product to RIDGE TOOL COMPANY, Elyria, Ohio, or any authorized RIDGID® INDEPENDENT SERVICE CENTER. Pipe wrenches and other hand tools should be returned to the place of purchase.

What we will do to correct problems

Warranted products will be repaired or replaced, at RIDGE TOOL'S option, and returned at no charge; or, if after three attempts to repair or replace during the warranty period the product is still defective, you can elect to receive a full refund of your purchase price.

What is not covered

Failures due to misuse, abuse or normal wear and tear are not covered by this warranty. RIDGE TOOL shall not be responsible for any incidental or consequential damages.

How local law relates to the warranty

Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific rights, and you may also have other rights, which vary, from state to state, province to province, or country to country.

No other express warranty applies

This FULL LIFETIME WARRANTY is the sole and exclusive warranty for RIDGID® products. No employee, agent, dealer, or other person is authorized to alter this warranty or make any other warranty on behalf of the RIDGE TOOL COMPANY.



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