

from the cutting chain during the cutting cycle. They can be crushed, fractured or amputated if they become caught between the pipe and cutter or other objects.

- Read and understand this operator's manual, the impact tool operator's manual and the warnings and instructions for all equipment being used with this tool before operating. Failure to follow all warnings and instructions may result in serious personal injury.

The EC Declaration of conformity (890-011-320.10) will accompany this manual as a separate booklet when required.

If you have any question concerning this RIDGID® product:

- Contact your local RIDGID distributor.
- Visit www.RIDGID.com to find your local RIDGID contact point.
- Contact RIDGID Technical Services Department at rttechservices@emerson.com, or in the U.S. and Canada call (800) 519-3456.

Description and Specifications

Description

The RIDGID® 238-P Soil Pipe Cutter is used to cut a variety of cast iron soil pipe, concrete and clay pipe. It is a compact unit for use in close quarters. The 238-P Soil Pipe Cutter is designed to be actuated by a battery powered, corded or pneumatic 1/2" drive impact tool. It can also be used manually with the included 1/2" drive ratchet or a 1/8" wrench for up to 4" (100 mm) nominal pipe. The 238-P uses a chain equipped with cutter wheels that is tightened around the pipe until the pipe breaks. The 238-P will cut service weight and no-hub cast iron soil pipe up to 8" (200 mm) nominal diameter. The feedscrew is equipped with a hand knob for fast manual adjustment. A unique hooking mechanism makes connecting the chain easier.

Specifications

Capacity
Service Weight Cast
Iron Soil Pipe up to 8" (200 mm) nominal

No-Hub Cast Iron Soil Pipe	up to 8" (200 mm) nominal
Clay Pipe	up to 8" (200 mm) nominal
Concrete Pipe	4" to 6" (100 mm to 150 mm) nominal
Weight	13.5 lbs (6.1 kg) (without handle or ratchet)
Size	11.5" (292 mm) long (fully open, not including handle, ratchet or chain)

Cutter Wheel Diameter	1.25" (32 mm)
Chain Pin Length	2" (51 mm)

An impact tool must have a torque rating of at least 200 Foot-pounds (271 N-m) for proper operation. Impacts with lower ratings may not cut all sizes and types of pipe. Do not use with impacts rated at over 400 Foot-pounds (542 N-m) of torque - this can damage the cutter.



Figure 1 - 238-P Soil Pipe Cutter

Pre-Operation Inspection/Maintenance

A WARNING

Before each use, inspect and maintain your soil pipe cutter and correct any problems to reduce the risk of serious injury from striking or impact injuries and other causes and to prevent soil pipe cutter damage.

- J. Clean the soil pipe cutter and remove all dirt, oil, grease and debris. If needed,

the chain can be cleaned with a wire brush. This aids in inspection and helps prevent the tool from slipping from your grip during use.

2. Inspect the soil pipe cutter for the following items:
 - Proper assembly and completeness
 - Broken, cracked, missing, bent or binding parts
 - Excessive corrosion and wear
 - Smooth, free movement of screws, chain and linkages
 - Presence and readability of the warning label (See Figure 1.)
3. Inspect the chain for signs of overload or other damage. There should be no significant gaps between the plates of the chain. If there are large gaps between the links of the chain or other damage, the chain should be replaced. Check the cutter wheels for wear and damage. Worn and damaged cutter wheels increase cut force and can cause poor quality cuts.
3. Inspect the impact tool and any other equipment being used as directed in their instructions.
3. If any problems are found, do not use the soil pipe cutter until corrected.
3. If needed, lubricate pivot points and the chain with a light lubricating oil. Wipe any excess oil off.
3. Yearly (or more often under heavy use), disassemble the cutter by turning the hand flange clockwise (left hand thread). Remove the C-washer and unscrew the feedscrew from the cutter. Clean the feedscrew and washers and apply a good quality extreme pressure (EP designation) grease to points of relative motion when reassembling. See Figure 2.

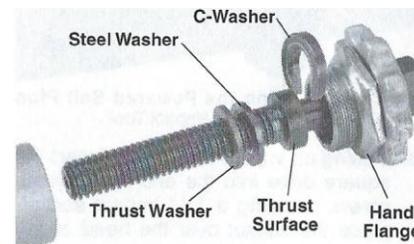


Figure 2 - Unit Assembly: Orient C-Washer and Steel Washer With Chamfer Towards Thrust Surface

Tool Set-Up and Operation

A WARNING



Follow set up and operating instructions to reduce the risk of serious injury from striking or impact injuries and other causes and prevent machine damage.

Keep others out of work area while cutting. Stand clear of the pipe. Cutting can cause pieces of pipe to be thrown with considerable force. This can cause striking injuries, eye injuries, or other serious personal injury.

Always wear eye protection to protect your eyes against dirt and other foreign objects.

Keep your fingers and hands away from the cutting chain during the cutting cycle. They can be crushed, fractured or amputated if they become caught between the pipe and cutter or other objects.

around the pipe. If cutting loose pipe, to protect the cutter wheels from damage against concrete or other hard surfaces, place the pipe on short stands or wood block to get the pipe off the floor or work on a softer surface like a piece of plywood.

- When cutting short sections of pipe, if possible, restrain the pipe to prevent it from being thrown when cut. This can be done by placing a smaller piece of pipe or lumber through the center of the pipe, or by other methods.
6. For convenience, the side handle can be installed on either side of the cutter or removed from the cutter as needed.
 6. Grip the adjusting knob of the soil pipe cutter and turn counter clockwise to fully open (Figure 3).

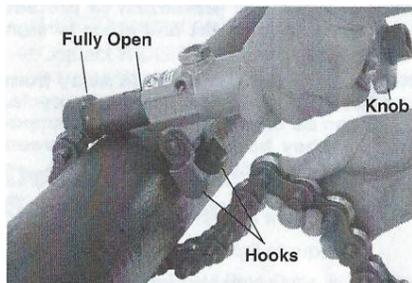


Figure 3 - Cutter Fully Open, Hooking the Chain

8. Place the soil pipe cutter on the pipe so the cutter wheels line up with the desired cut point. Make sure both hooks are lying on the pipe with the open side up.
8. Wrap the chain snugly around the pipe and place the nearest chain pin into the hooks. The tool must be fully opened and the chain snugly wrapped around the pipe before hooking the chain. If not, the wrong pin may be hooked and the cut may not be able to be completed. This can also cause the cutter to jam. If that happens, fully open the tool and move the chain to the next tighter chain pin and continue operation as described.
10. Make sure that the cutter wheels are square to the pipe and at the desired location. Turn the adjusting knob clockwise to firmly tighten the chain around the pipe.
11. Choose a spot to operate the cutter from. Keep in mind that when the pipe is cut,

parts of it may be thrown. Make sure that the area is clear of others or objects that could be struck by pipe. Be aware that when the pipe is cut the soil pipe cutter and pipe could drop or fall.



Figure 4 - Operating the Powered Soil Pipe Cutter - Manual Operation

12. If operating manually, (for up to 4" (100 mm) pipe) the ratchet used should lock firmly into place in the square drive. If using a different wrench, it may not lock in place and may come loose during operation. If needed, an adjustable wrench can be used to hold the body of the cutter. Do not use a pipe wrench to hold the cutter, this can damage the wrench teeth or cutter. Do not use the handle to hold the cutter while manually ratcheting, this can damage the handle.

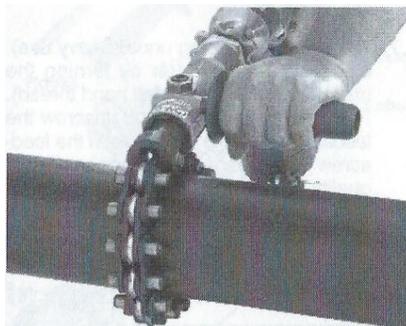


Figure 5 - Operating the Powered Soil Pipe Cutter - Using Impact Tool

13. If using an impact tool, either insert the square drive into the end of the feedscrew, or using a 1/8" impact socket, place the socket over the head of the feedscrew.
13. Assume a stable stance, and with a firm grip on the equipment, tighten the feed-

screw. Continue tightening until the pipe is cut.

Cutting Tips

Once the appropriate pin for a given size pipe has been determined; marking the pin can save time setting up subsequent cuts of the same size.

For cleaner cuts, instead of tightening the chain until the pipe is cut, tighten the chain enough to mark the pipe. Then loosen the chain and slightly rotate the pipe or the tool and make another set of marks. Do this several times to create marks all the way around the pipe, then tighten the chain and break the pipe.

When carrying your soil pipe cutter, do not drag the chain. This can wear and damage the cutter wheels, increasing cut force and cause poor cut quality.

Corroded pipe can crush during cutting. Try not to cut pipe where corroded.

Cutting off short sections of pipe (less than one pipe diameter) can cause the pipe to cut unevenly, crack or break.