

VEVOR MR8080

VEVOR 12 Ton Hydraulic Pipe Bender (Model MR8080) User Manual

Your guide to safe and efficient operation

1. INTRODUCTION

Thank you for choosing the VEVOR 12 Ton Hydraulic Pipe Bender, Model MR8080. This manual provides essential information for the safe operation, maintenance, and troubleshooting of your new pipe bender. Please read this manual thoroughly before assembly, operation, or maintenance to ensure proper use and to prevent injury or damage.

2. SAFETY INSTRUCTIONS

Always prioritize safety when operating any hydraulic equipment. Failure to follow these instructions may result in serious injury or property damage.

- **Read the Manual:** Understand all instructions and warnings before use.
- **Wear Personal Protective Equipment (PPE):** Always wear safety glasses, gloves, and appropriate work attire.
- **Stable Work Area:** Ensure the pipe bender is placed on a stable, level, and non-slip surface. The 4-leg stable support should be fully engaged.
- **Inspect Before Use:** Check the hydraulic system, frame, dies, and rollers for any signs of damage or wear. Do not operate if any components are compromised.
- **Correct Die Selection:** Use only the appropriate dies for the pipe size and material to prevent kinking or damage.
- **Do Not Exceed Capacity:** The maximum dead load is 12 tons. Do not attempt to bend pipes beyond the specified bending range (1/2"-2") or material strength.
- **Keep Hands Clear:** Never place hands or fingers near moving parts during operation.
- **Hydraulic Fluid:** Handle hydraulic fluid with care. Refer to the manufacturer's safety data sheet for proper handling and disposal.

- **Maintenance:** Perform regular maintenance as described in this manual.

3. PRODUCT OVERVIEW

The VEVOR 12 Ton Hydraulic Pipe Bender is designed for bending various types of pipes, including copper and exhaust pipes, within a range of 1/2" to 2" (13-51 mm). It features a robust steel construction and a hydraulic system for efficient bending operations.

Components

- Hydraulic Ram
- Operating Lever
- Main Frame with 4-leg Support
- Adjustable Rollers
- Bending Dies (6 sizes: 1/2", 3/4", 1", 1-1/4", 1-1/2", 2")
- Return Springs

Key Features

- **12 Ton Capacity:** High load capacity for heavy-duty tasks.
- **6 Precision Dies:** Accommodates pipe sizes from 1/2" to 2".
- **Adjustable Bending Angle:** Rollers feature 6 adjustable positions for 90°-180° bending angles.
- **Durable Construction:** Made from high-quality steel for wear resistance and long service life.
- **Hydraulic System:** Equipped with a hydraulic and return spring system for efficient bending.



Image 3.1: The VEVOR 12 Ton Hydraulic Pipe Bender with its included set of bending dies.

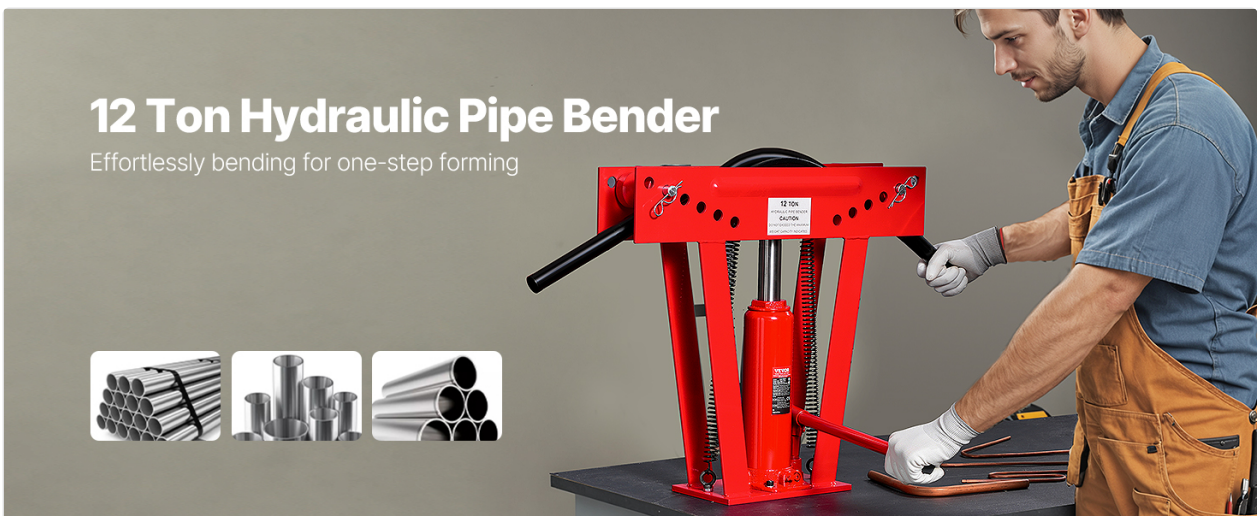


Image 3.2: The hydraulic pipe bender in use, demonstrating its bending capability.

4. SETUP

Follow these steps to set up your hydraulic pipe bender before initial use.

1. **Unpack Components:** Carefully remove all parts from the packaging. Verify that all components listed in the package content are present and undamaged.
2. **Position the Bender:** Place the main frame of the pipe bender on a sturdy, level workbench or floor. Ensure the 4-leg support provides maximum stability.
3. **Install the Operating Lever:** Insert the operating lever into the hydraulic pump's socket.
4. **Select and Install Dies:** Choose the appropriate bending die for the pipe size you intend to bend. Place the selected die onto the central ram.
5. **Adjust Rollers:** Position the two adjustable rollers into the desired slots on the frame, corresponding to the chosen die and the required bending angle (90°-180°). Ensure the pins are securely fastened.



Image 4.1: The VEVOR Hydraulic Pipe Bender as received in its packaging.

6 Precision High-quality Dies

Quickly complete various bending tasks



Image 4.2: A close-up view of the six precision-molded bending dies, ranging from 1/2 inch to 2 inches.

5. OPERATING INSTRUCTIONS

Once the pipe bender is set up, follow these steps to bend pipes safely and effectively.

1. **Prepare the Pipe:** Ensure the pipe is clean and free of obstructions. Mark the bending point on the pipe.
2. **Place the Pipe:** Carefully place the pipe onto the selected die and between the two adjustable rollers. Ensure the pipe is centered and stable.
3. **Close Release Valve:** Turn the hydraulic release valve clockwise to close it. This builds pressure in the hydraulic system.

4. **Begin Bending:** Pump the operating lever slowly and steadily. Observe the pipe as it bends. Stop pumping when the desired angle is achieved.
5. **Release Pressure:** Once the bend is complete, slowly turn the hydraulic release valve counter-clockwise to release the pressure. The hydraulic ram will retract, and the pipe can be removed.
6. **Remove Pipe:** Carefully remove the bent pipe from the bender.

4 Steps To Bend Pipes



Select the suitable dies and rollers according to your need



Place the die into the base



Put in the pipe to be bent



Adjust the nut and start to bend

Image 5.1: Visual guide illustrating the four main steps for bending pipes with the VEVOR hydraulic bender.

6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your hydraulic pipe bender.

- **Cleaning:** After each use, clean the dies, rollers, and frame to remove any debris or metal shavings.
- **Lubrication:** Periodically lubricate moving parts and pivot points with appropriate grease or oil.
- **Hydraulic Fluid Check:** Regularly check the hydraulic fluid level. If low, refill with high-quality hydraulic oil (refer to specifications for type).
- **Inspection:** Inspect the hydraulic hose, seals, and all structural components for leaks, cracks, or damage. Replace any worn or damaged parts immediately.
- **Storage:** Store the pipe bender in a dry, clean environment when not in use.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your hydraulic pipe bender.

- **Issue: Bender not building pressure.**
Possible Cause: Release valve is open; low hydraulic fluid; air in the hydraulic system.
Solution: Ensure release valve is fully closed. Check and refill hydraulic fluid. Bleed air from the system by opening the release valve, pumping the handle several times, then closing and re-pumping.
- **Issue: Pipe kinking or deforming during bending.**
Possible Cause: Incorrect die size; pipe material too thin or weak for bending; rollers not properly adjusted.
Solution: Ensure the correct die size is used for the pipe's outer diameter. Consider the pipe's wall thickness and material properties. Adjust rollers to provide adequate support.
- **Issue: Hydraulic ram not retracting.**
Possible Cause: Release valve not fully opened; obstruction.
Solution: Ensure the release valve is fully opened counter-clockwise. Check for any physical obstructions preventing retraction.
- **Issue: Oil leakage.**
Possible Cause: Damaged seals or fittings.
Solution: Inspect all connections and seals. Tighten loose fittings. If seals are damaged, contact customer support for replacement parts.

8. SPECIFICATIONS

Detailed technical specifications for the VEVOR 12 Ton Hydraulic Pipe Bender (Model MR8080).

Model Number	MR8080
Dead Load Capacity	12 Ton
Stroke	9.6 inches (243 mm)
Adjustable Height	13.5 - 23 inches (342 - 585 mm)
Bending Range	1/2 - 2 inches (13 - 51 mm)
Oil Capacity	1.0 lbs (450 g)
Quantity of Dies	6 pcs (1/2", 3/4", 1", 1-1/4", 1-1/2", and 2")
Item Weight	69 pounds (31.3 kg)
Product Dimensions	24.02 x 6.3 x 21.65 inches (610 x 160 x 550 mm)



Specifications

Item Model Number: MR8080	Adjustable Height: 13.5 - 23 in / 342 - 585 mm
Dead Load: 12 Ton	Bending Range: 1/2 - 2 in / 13 - 51 mm
Stroke: 9.6 in / 243 mm	Oil Capacity: 1.0 lbs / 450 g
Net Weight: 69.1 lbs / 31.3 kg	Qty. of Dies: 6 pcs

Package Content

6 x Bending Dies (1/2", 3/4", 1", 1-1/4", 1-1/2", and 2"), 1 x User Manual

Image 8.1: A diagram detailing the dimensions and key specifications of the pipe bender.

9. WARRANTY AND SUPPORT

For warranty information, please refer to the documentation provided with your purchase or visit the official VEVOR website. If you encounter any issues or require technical assistance, please contact VEVOR customer support. Have your model number (MR8080) and purchase details ready for faster service.

VEVOR Customer Support: www.vevor.com/support

