

VEVOR YP-9 Manual Bender

VEVOR YP-9 Manual Bender Instruction Manual

Model: YP-9 Manual Bender

1. SAFETY INFORMATION

Read and understand all instructions before operating this manual bender. Failure to follow all instructions may result in serious injury.

- **Wear appropriate personal protective equipment (PPE):** Always wear safety glasses, gloves, and sturdy footwear when operating the bender.
- **Secure the bender:** Ensure the bender is securely mounted to a stable workbench or surface before use to prevent movement during operation.
- **Inspect material:** Before bending, inspect the material for defects, cracks, or inconsistencies that could lead to breakage during bending.
- **Clear work area:** Keep the work area clean and free of clutter. Ensure adequate space around the bender for safe operation.
- **Keep hands clear:** Never place hands or fingers near moving parts or the bending area during operation.
- **Do not exceed capacity:** Adhere strictly to the maximum stock width and thickness specifications to prevent damage to the bender or injury.
- **Use correct dies:** Select the appropriate bending die for the material and desired bend radius.
- **Supervise children:** Keep children and unauthorized persons away from the work area.

2. PRODUCT OVERVIEW

The VEVOR YP-9 Manual Bender is a robust tool designed for bending solid round and square metal bars. It features a durable construction and a lever-action design for efficient operation. The unit comes with a set of interchangeable dies to accommodate various bending requirements.

1"- 2" MANUAL BENDER

Heavy-duty bender can easily bend different type of materials

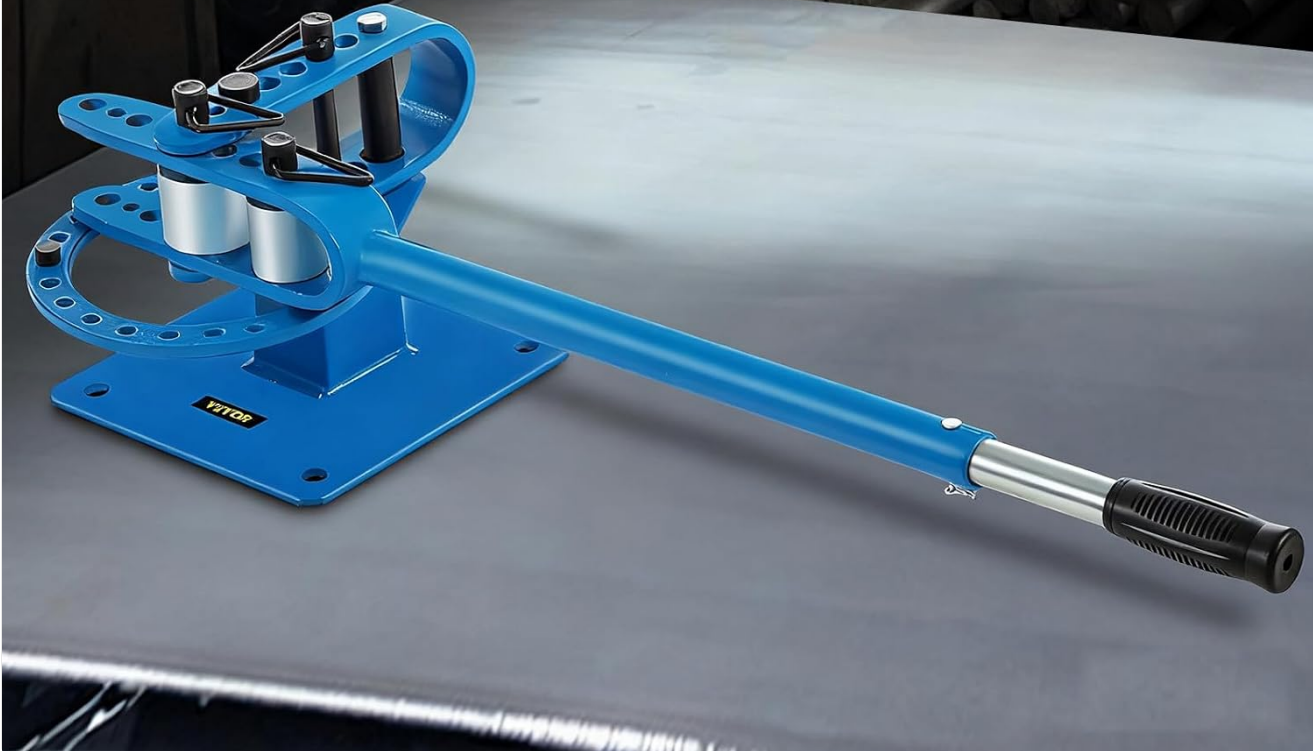


Image 2.1: The VEVOR YP-9 Manual Bender, showing its main components including the base, bending head, and operating handle.

Key Features:

- **High Performance:** Capable of precise bending for various diameters of round and square metal bars.
- **7 Superior Dies:** Includes interchangeable dies ranging from 1" to 3" outer diameter, made from reinforced steel for durability.
- **Sturdy and Durable Construction:** Manufactured with high-quality materials for long-lasting use.
- **Energy-saving Structure:** Features an ergonomic 44-inch long handle with a non-slip rubber grip for comfortable and labor-saving operation.
- **Universal Usage:** Suitable for various applications including grids, gates, railings, furniture, and pipeline work.

GREAT BENDING CAPACITY

Large weight capacity can deal with heavy duty works



Image 2.2: Illustration highlighting the heavy-duty A3 steel construction, high strength, and stable base of the bender.

Components Included:

- 1 x Manual Tube Bender (main unit)
- 7 x Round Dies (1", 1-1/4", 1-1/2", 1-3/4", 2", 2-1/2", 3")
- 2 x Fixing Pins
- 4 x Fixing Screws

SEVEN AVAILABLE DIES

Various dies for precise pipe bending

Cast Steel



Bending Die O.D: 1", 1-1/4", 1-1/2", 1-3/4", 2", 2-1/2", 3"

Image 2.3: The seven interchangeable cast steel bending dies provided with the unit, ranging from 1 inch to 3 inches in outer diameter.

3. SPECIFICATIONS

Parameter	Value
Model	YP-9 Manual Bender
Round Dies Size (Outer Diameter)	1", 1-1/4", 1-1/2", 1-3/4", 2", 2-1/2", 3"
Max Stock Width	1-15/16" (approx. 49 mm)

Max Stock Thickness	5/16" (approx. 8 mm)
Capacity (Mild Steel)	5/16" x 1-1/4" or 1/4" x 2"
Handle Length	44" (approx. 111.76 cm)
Mounting Holes	4 holes, 5/8" diameter
Item Weight	32 pounds (approx. 14.5 kg)
Product Dimensions	38.5" x 9.4" x 9" (approx. 97.79 x 23.87 x 22.86 cm)
Power Source	Hand-powered

PRODUCT SPECIFICATIONS:

VEVOR®

Product Size: 38.5 x 9.4 x 9 in / 97.79 x 23.87 x 22.86 cm

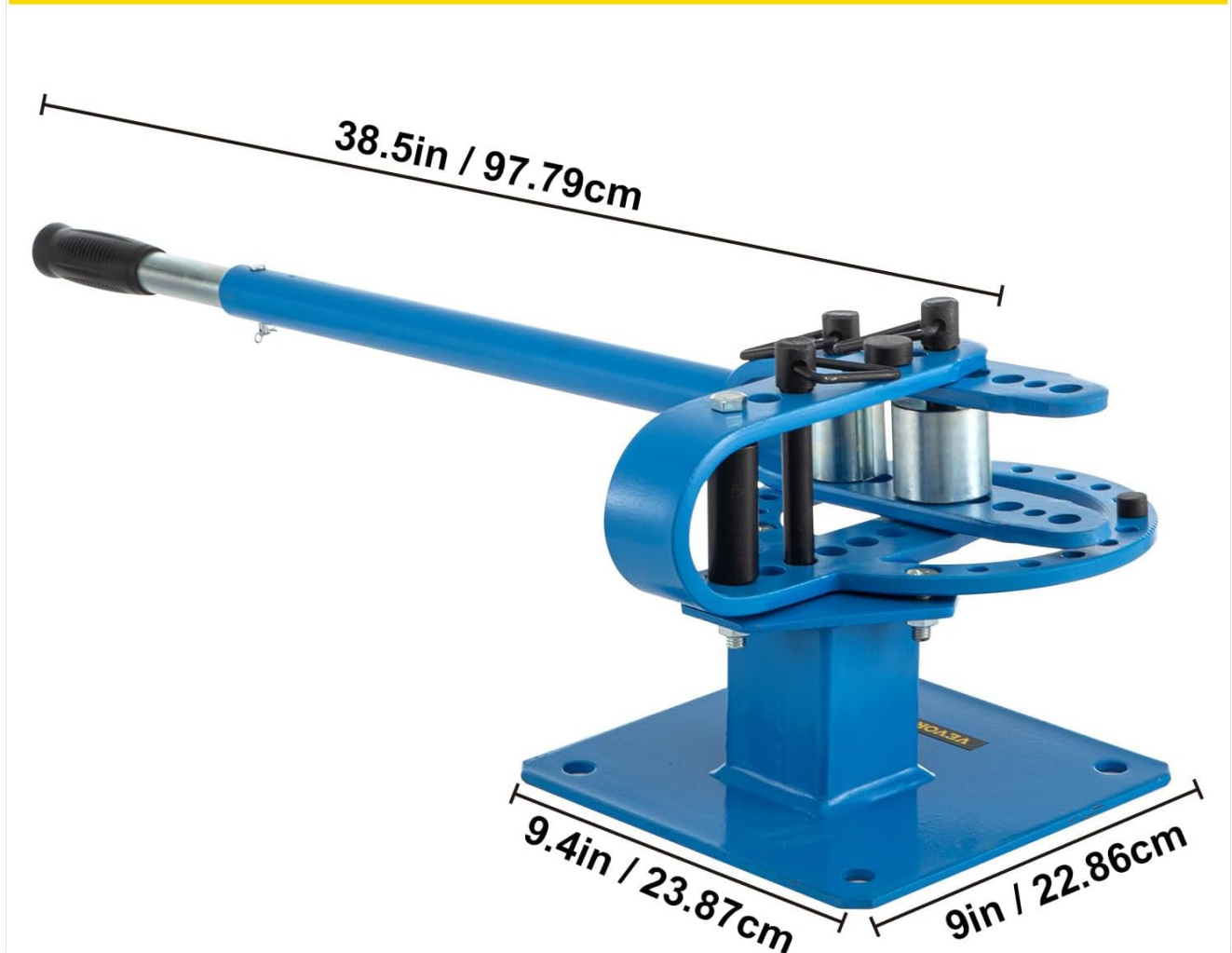


Image 3.1: Dimensional drawing of the VEVOR YP-9 Manual Bender, indicating its overall length, width, and height.

4. SETUP

Proper setup is crucial for safe and effective operation of the manual bender.

4.1 Mounting the Bender

1. Choose a sturdy workbench or surface capable of supporting the bender and the forces applied during bending.
2. Position the bender on the chosen surface. Use the four 5/8" mounting holes on the base as a template to mark drilling locations.
3. Drill appropriate holes in the workbench.
4. Secure the bender to the workbench using the provided fixing screws or other suitable heavy-duty fasteners. Ensure all fasteners are tightened securely.

4.2 Assembling the Handle

1. Insert the long handle into the designated slot on the bending head.
2. Align the holes on the handle with the corresponding holes on the bending head.
3. Insert the fixing pins through the aligned holes to secure the handle.

4.3 Installing Bending Dies

1. Select the appropriate round die based on the desired bend radius and material size.
2. Place the selected die onto the central pivot point of the bending head.
3. Ensure the die is seated correctly and can rotate freely.

5. OPERATING INSTRUCTIONS

Follow these steps for safe and effective bending:

1. **Prepare the Material:** Cut the metal bar to the required length. Ensure the ends are deburred and smooth to prevent injury and ensure a clean bend.
2. **Select and Install Die:** Choose the correct bending die for your material's dimensions and desired bend radius. Install it as described in Section 4.3.
3. **Position the Material:** Place the metal bar into the bender, ensuring it rests firmly against the selected die and the retaining pins. The point where the bend is desired should align with the center of the die.
4. **Initiate the Bend:** Apply steady, even pressure to the long handle. Slowly pull the handle to begin bending the material around the die.
5. **Monitor the Bend:** Continuously observe the material as it bends. Stop when the desired angle is achieved. Avoid over-bending, as this can weaken the material or damage the bender.
6. **Release the Material:** Once the bend is complete, carefully release the pressure on the handle and remove the bent material from the bender.



Image 5.1: The VEVOR YP-9 Manual Bender actively bending a metal bar, demonstrating the lever action.

Tips for Best Results:

- For thicker materials, apply consistent, slow pressure.
- Practice with scrap material to get a feel for the bender's operation and the material's bending characteristics.
- Ensure the material is clean and free of rust or debris that could affect the bend quality.

6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your VEVOR YP-9 Manual Bender.

- **Cleaning:** After each use, wipe down the bender, especially the dies and bending head, to remove metal shavings, dust, and debris. Use a dry cloth or a soft brush.
- **Lubrication:** Periodically apply a light coat of machine oil to all pivot points and moving parts to ensure smooth operation and prevent rust.
- **Inspection:** Regularly inspect the dies, pins, and the main structure for any signs of wear, damage, or deformation. Replace worn or damaged parts immediately.
- **Storage:** Store the bender in a dry, clean environment to prevent corrosion. If storing for extended periods, apply a thin layer of rust preventative to exposed metal surfaces.

7. TROUBLESHOOTING

This section addresses common issues you might encounter during operation.

Problem	Possible Cause	Solution
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Material slips during bending	Material not securely positioned; incorrect die size; insufficient clamping force.	Ensure material is firmly against the die and retaining pins. Verify die size matches material. Check if the bender is securely mounted.
Bend is inconsistent or uneven	Uneven pressure applied; material defect; bender not stable.	Apply steady, even pressure to the handle. Inspect material for flaws. Re-check bender mounting.
Difficulty operating the handle	Material exceeds bender capacity; lack of lubrication; rust on moving parts.	Verify material dimensions are within specifications. Lubricate pivot points and moving parts. Clean any rust.
Scratches on bent material	Debris on dies; rough edges on material; worn dies.	Clean dies thoroughly. Deburr material edges before bending. Inspect dies for wear and replace if necessary.

8. WARRANTY AND SUPPORT

VEVOR products are designed for durability and performance. For specific warranty information, please refer to the warranty card included with your product or visit the official VEVOR website.

If you encounter any issues or require technical assistance, please contact VEVOR customer support through their official channels. Have your product model number (YP-9 Manual Bender) and purchase details ready when contacting support.

VEVOR Official Website: www.vevor.com