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VEVOR 1 Ton Manual Arbor Press (AP-1)

VEVOR 1 Ton Manual Arbor Press Instruction Manual

Model: 1 Ton Manual Arbor Press (AP-1)

Brand: VEVOR

1. Introduction

This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your VEVOR 1 Ton Manual Arbor Press. Please read this manual thoroughly before initial use and retain it for future reference. This manual is applicable to the 1 Ton Manual Arbor Press, designed for precision pressing, forming, punching, and cutting tasks on various materials.



Image 1.1: The VEVOR 1 Ton Manual Arbor Press. This image displays the complete assembly of the arbor press, highlighting its robust cast iron construction and the lever mechanism.

2. Safety Information

Always observe the following safety precautions to prevent injury and damage to the equipment:

- Read and understand all instructions before operating the press.

- Wear appropriate personal protective equipment (PPE), including safety glasses, gloves, and sturdy footwear.
- Ensure the press is securely mounted to a stable workbench or surface using the pre-drilled holes in the base.
- Keep hands and fingers clear of the ram and workpiece during operation.
- Do not exceed the maximum working pressure of 1 Ton.
- Do not modify the press or use it for purposes other than its intended design.
- Keep the work area clean and well-lit.
- Inspect the press for any damage or loose components before each use. Do not operate if damaged.

3. Product Components and Features

3.1. What's in the Box

- 1 x Arbor Press
- 3 x Drifts (Flat, Pointed, Round)



Image 3.1: The arbor press with its included drifts. This image illustrates how the three different drifts (flat, pointed, and round) are secured into the ram bore, enabling versatile operations.

3.2. Key Features

- **1 Ton Pressure Capacity:** Provides precise control for small processing tasks such as stamping leather, aluminum, jewelry, handicraft production, ID card production, and leather projects.
- **Versatile Molds Included:** Comes with three molds (flat, pointed, and round drifts) for basic deformation and extrusion work. The 0.4-inch ram bore accommodates multiple molds for riveting, cutting, and carving.
- **Effortless Operation:** The lengthening lever utilizes a labor-saving principle, allowing greater force with less effort. The lever position is adjustable and lockable, featuring an anti-slip rubber sleeve for a secure grip.
- **Durable Construction:** Crafted from high-strength cast iron, ensuring long-term use without deformation or fracture. The overall anti-rust coating protects against corrosion.
- **Fix Items of Different Shapes:** Equipped with a 3.5-inch diameter four-hole steel anvil plate, providing precise work assistance and securely fixing items of various shapes and sizes.



Image 3.2: Overview of the arbor press capabilities. This image highlights the 1 Ton capacity, 5.9-inch maximum working stroke, and

various applications such as leather stamping, handicraft production, metal riveting, and ID card production.

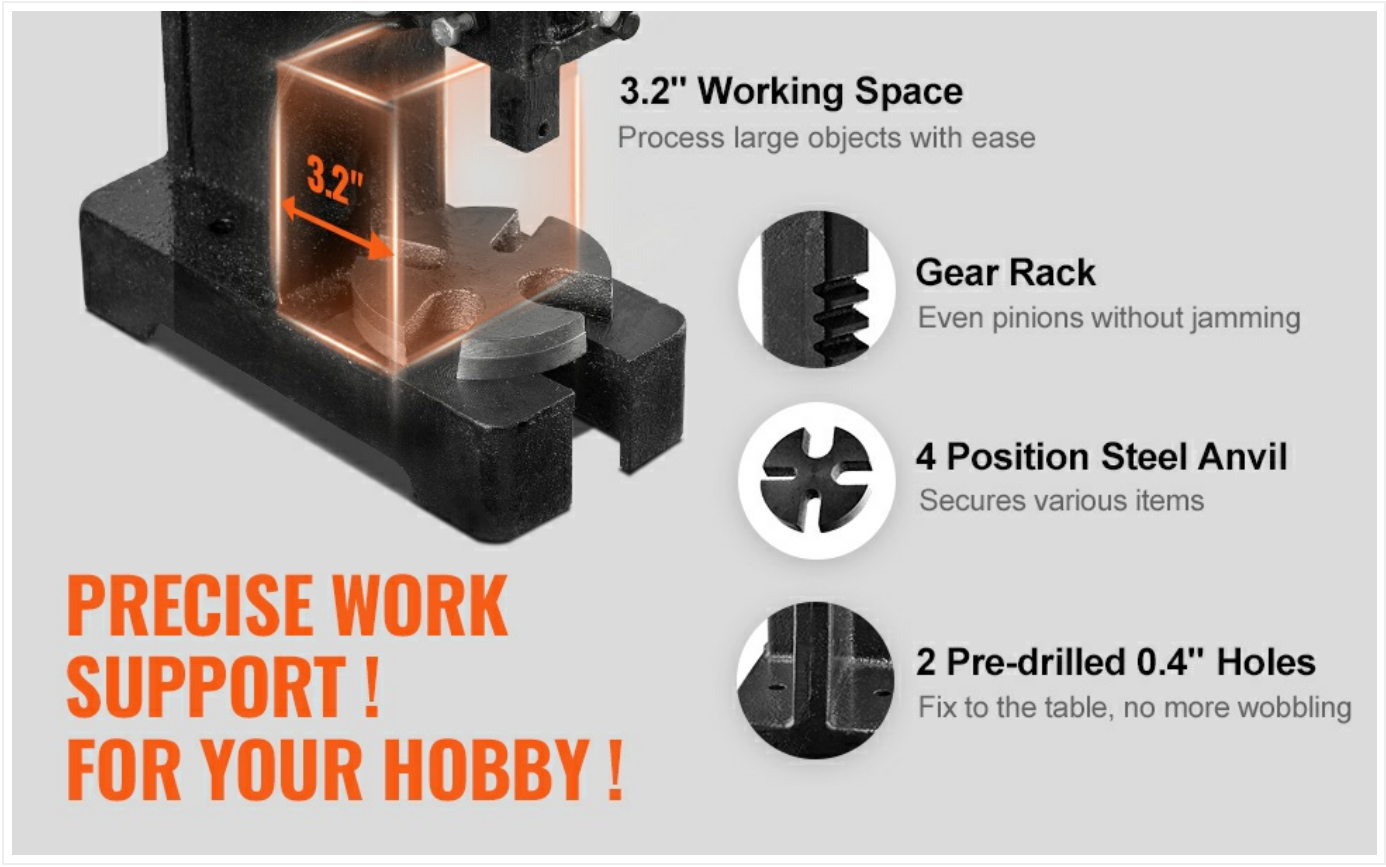


Image 3.3: Detailed view of the lever mechanism. This image shows the adjusting screw for locking the lever, the 10-inch long lever for increased leverage, and the non-slip handle for secure and safe operation.



Image 3.4: Close-up of the anvil plate and construction. This image details the 3.2-inch working space, the durable gear rack, the 4-position steel anvil for securing various items, and the two pre-drilled 0.4-inch holes for stable mounting.

4. Setup

4.1. Unpacking and Inspection

1. Carefully remove all components from the packaging.
2. Verify that all items listed in the 'What's in the Box' section are present and undamaged.
3. Remove any protective coatings or packaging materials from the press. The press may be coated with grease for corrosion protection during shipping; clean thoroughly before use.

4.2. Mounting the Arbor Press

For stable and safe operation, the arbor press must be securely mounted to a sturdy workbench or surface.

1. Position the press on your desired work surface.
2. Mark the locations for the two pre-drilled mounting holes on the base of the press.
3. Drill appropriate pilot holes into the workbench.
4. Secure the press using suitable bolts, washers, and nuts (not included) to prevent movement during operation.

4.3. Installing Drifts and Adjusting Ram

1. Select the appropriate drift (flat, pointed, or round) for your application.
2. Insert the drift into the 0.4-inch ram bore. Ensure it is seated correctly.
3. Adjust the ram height by loosening the adjusting screw on the side of the press, moving the ram to the desired position, and then tightening the screw to secure it.
4. Ensure the anvil plate is rotated to the correct opening for your workpiece and drift.

5. Operating Instructions

Follow these steps for safe and effective operation of your arbor press:

1. **Prepare Workpiece:** Place your workpiece securely on the anvil plate. Ensure it is stable and will not shift during pressing.
2. **Select Drift:** Choose the appropriate drift for the task and insert it into the ram bore.
3. **Adjust Ram:** Lower the ram until the drift is just above the workpiece. Ensure proper alignment.
4. **Apply Pressure:** Grasp the lever handle firmly. Slowly and steadily pull the lever downwards to apply pressure to the workpiece. Apply only the necessary force for the task.
5. **Release Pressure:** Once the operation is complete, slowly release the lever to raise the ram.
6. **Remove Workpiece:** Carefully remove the processed workpiece from the anvil.



Image 5.1: A hand operating the arbor press. This image demonstrates the manual application of force using the lever to press down the ram onto a workpiece placed on the anvil.

6. Maintenance

Regular maintenance ensures the longevity and optimal performance of your arbor press.

- **Cleaning:** After each use, wipe down the press with a clean cloth to remove any debris, dust, or metal shavings.
- **Lubrication:** Periodically apply a light machine oil or grease to the ram, gear rack, and pinion to ensure smooth operation and prevent rust.
- **Inspection:** Regularly inspect all moving parts, bolts, and the base for any signs of wear, damage, or looseness. Tighten any loose fasteners.
- **Storage:** Store the press in a dry environment to prevent corrosion.

7. Troubleshooting

Refer to the table below for common issues and their solutions.

Problem	Possible Cause	Solution
Ram is stiff or sticking	Lack of lubrication, accumulated debris	Clean the ram and gear rack, then apply lubricant.
Insufficient pressing force	Workpiece too hard for 1 Ton capacity, improper leverage	Ensure workpiece material is suitable for the press. Verify proper technique and leverage.
Press moves during operation	Not securely mounted	Ensure the press is firmly bolted to a stable workbench.
Drift not holding securely	Ram bore dirty, drift worn	Clean the ram bore. Inspect drifts for wear and replace if necessary.

8. Specifications

Detailed specifications for the VEVOR 1 Ton Manual Arbor Press:

Attribute	Value
Item Model Number	AP-1
Max. Working Stroke	5.9 inch / 150 mm
Ram Length	8.9 inch / 225 mm
Plate Diameter	3.5 inch / 90 mm
Ram Bore	0.4 inch / 10 mm
Throat Depth	3.2 inch / 81 mm
Product Size (L x W x H)	9.5 x 6.7 x 11.4 inch / 240 x 170 x 290 mm
Net Weight	24.47 lbs / 11.1 kg
Material	Cast Iron
Pressure Capacity	1 Ton

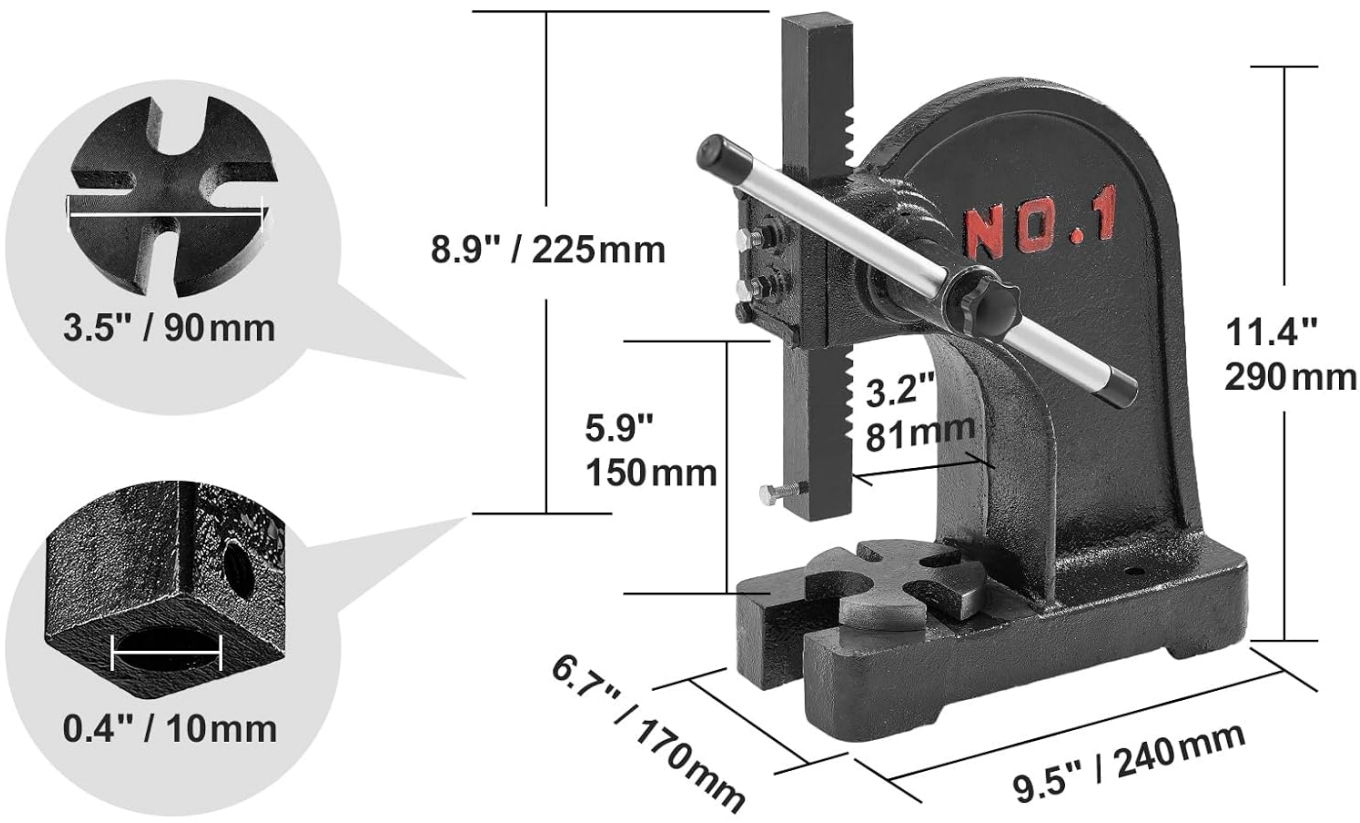


Image 8.1: Dimensional drawing and key specifications. This image provides a visual representation of the arbor press with its critical dimensions and lists important specifications such as model number, working stroke, and net weight.

9. Warranty and Support

For warranty information, technical support, or service inquiries, please refer to the official VEVOR website or contact VEVOR customer service directly. Keep your purchase receipt as proof of purchase for any warranty claims.

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