

ARROWMAX AM-230682

ARROWMAX Mini Double-Sided Bench Vise User Manual

Model: AM-230682

1. INTRODUCTION

The ARROWMAX Mini Double-Sided Bench Vise (Model AM-230682) is designed to provide superior stability and precise control for various crafting and repair tasks. Its innovative self-centering mechanism ensures a secure hold on workpieces, making it an essential tool for hobbyists and professionals alike. Constructed from high-quality CNC machined aluminum, this vise offers durability and reliable performance.

Key features include:

- **Enhanced Precision:** Designed for superior stability and precise control when working on small objects.
- **Self-Centering, Double-Sided Design:** Automatically aligns objects and ensures a secure hold from both ends, preventing fluctuations and slippage.
- **Versatile Use:** Suitable for a variety of tasks, from delicate jewelry making to intricate electronic repairs.
- **Durable CNC Aluminum Construction:** Ensures longevity and maintains workpiece stability.
- **Portable and Magnetic Adsorption:** Compact and lightweight for easy transport, with magnetic base for seamless installation, especially with a drill press.

2. PRODUCT COMPONENTS

The ARROWMAX Mini Double-Sided Bench Vise includes the main vise body and various accessories for clamping different shapes. The robust construction ensures durability and stability.

The product's applications are diverse, making work more convenient.

Regardless of whether it is upright and flat on the side, it can maintain high-precision work.



Screw thickening

Thicker threads are less likely to fracture or deform.
Provide stronger holding power.

Figure 2.1: The ARROWMAX Mini Double-Sided Bench Vise demonstrating its diverse applications, including holding objects upright or flat on the side for high-precision work. The image also highlights the thickened screw mechanism for stronger holding power.

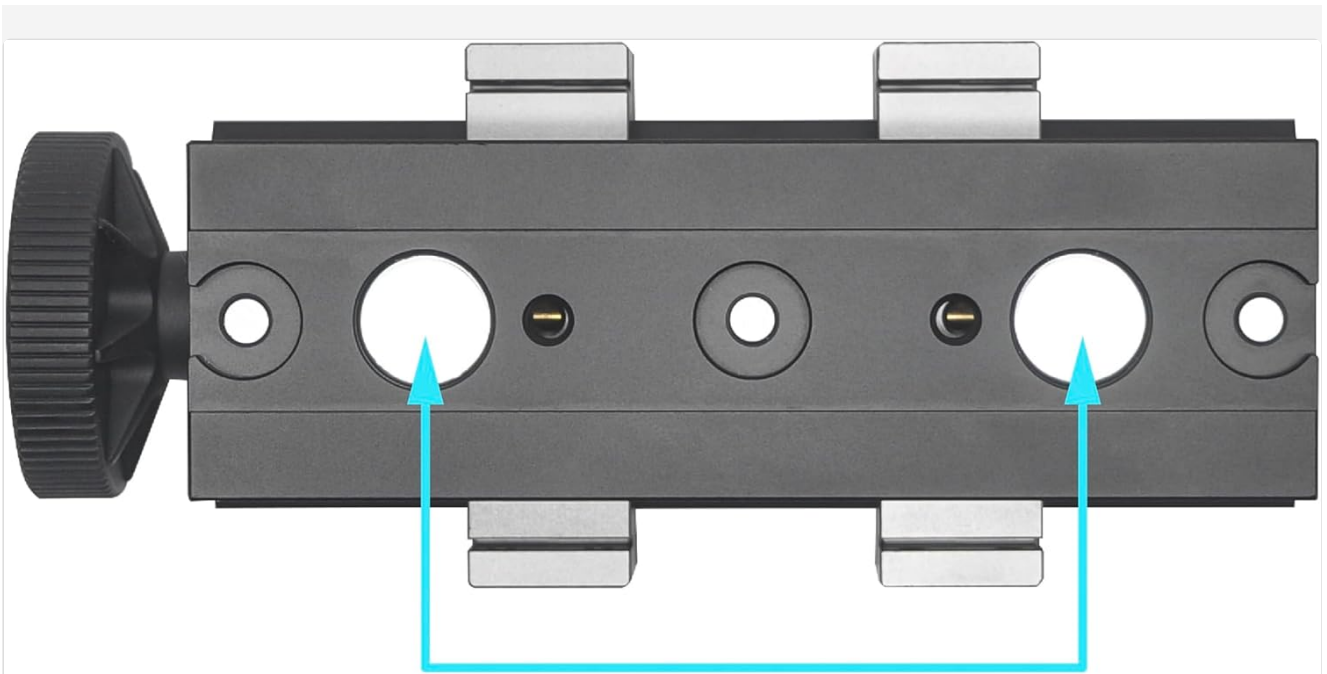


Figure 2.2: Illustration of three assembly methods for clamping: clamping ordinary shaped bodies, clamping various irregular shaped bodies, and gripping cylindrical and radian-shaped objects. This image shows the versatility of the vise with different jaw inserts.

3. SETUP

The ARROWMAX Mini Double-Sided Bench Vise is designed for easy setup and integration into your workspace. Its magnetic base allows for flexible positioning.

1. **Unpacking:** Carefully remove all components from the packaging. Verify that all parts are present according to the product description.
2. **Surface Preparation:** Ensure your workbench or drill press surface is clean and flat to maximize the magnetic adsorption.
3. **Positioning the Vise:** Place the vise on your desired work surface. The integrated magnets will help secure it in place. For enhanced stability, especially during drilling operations, align the vise with your drill press base.
4. **Attaching to a Drill Press (Optional):** The vise can be easily coupled with a drill press. Position the vise directly onto the drill press table. The magnetic base will assist in maintaining its position.



Magnets

Figure 3.1: Bottom view of the vise highlighting the integrated magnets, which provide secure adsorption to metallic surfaces for stable operation.





Figure 3.2: The ARROWMAX Mini Double-Sided Bench Vise shown mounted on a drill press, illustrating how its magnetic base facilitates seamless integration for drilling tasks.

4. OPERATING INSTRUCTIONS

Follow these steps for safe and effective use of your ARROWMAX Mini Double-Sided Bench Vise.

1. **Opening the Jaws:** Turn the adjustment knob counter-clockwise to open the vise jaws to the desired width.
2. **Positioning the Workpiece:** Place your workpiece between the jaws. The self-centering design will help align the object.
3. **Clamping the Workpiece:** Turn the adjustment knob clockwise to close the jaws and securely clamp the workpiece. Ensure the workpiece is held firmly without over-tightening, which could cause damage.
4. **Using Jaw Inserts:** For delicate or irregularly shaped objects, utilize the provided jaw inserts (e.g., plastic pads for non-marring grip, or specialized inserts for cylindrical objects) as shown in Figure 2.2. These inserts fit into the vise jaws to provide a customized grip.
5. **Working with the Vise:** Perform your crafting, drilling, or repair tasks while the workpiece is securely held. The vise's stability ensures precision.

6. **Releasing the Workpiece:** Turn the adjustment knob counter-clockwise to release the tension and remove the workpiece.

Safety Precaution:

- Always ensure the vise is securely positioned on a stable surface before clamping.
- Do not over-tighten the vise, as this may damage the workpiece or the vise itself.
- Wear appropriate safety gear, such as safety glasses, when performing tasks that may produce debris.

5. MAINTENANCE

Proper maintenance will extend the life and ensure the optimal performance of your ARROWMAX Mini Double-Sided Bench Vise.

- **Cleaning:** After each use, wipe down the vise with a clean, dry cloth to remove dust, debris, and metal shavings. For stubborn grime, a mild cleaner can be used, followed by thorough drying.
- **Lubrication:** Periodically apply a light machine oil to the screw mechanism to ensure smooth operation and prevent rust. Do not over-lubricate.
- **Inspection:** Regularly inspect the vise for any signs of wear, damage, or loose components. Pay attention to the jaws, screw, and magnetic base.
- **Storage:** Store the vise in a dry, clean environment to prevent corrosion and damage.

6. TROUBLESHOOTING

This section addresses common issues you might encounter with your vise.

Problem	Possible Cause	Solution
Vise jaws not holding workpiece securely.	Insufficient tightening; workpiece material too slippery; jaw inserts not properly seated.	Ensure the adjustment knob is tightened sufficiently. Use appropriate jaw inserts for the material. Clean jaws and workpiece surfaces.
Adjustment knob is stiff or difficult to turn.	Lack of lubrication; dirt or debris in the screw mechanism.	Clean the screw mechanism thoroughly. Apply a light machine oil to the screw.
Vise slides on workbench during use.	Magnetic base not fully engaged; workbench surface is not metallic or uneven.	Ensure the vise is placed on a clean, flat metallic surface. For non-metallic surfaces, consider clamping the vise or using a non-slip mat underneath.

7. SPECIFICATIONS

Detailed technical specifications for the ARROWMAX Mini Double-Sided Bench Vise.

- **Model Number:** AM-230682
- **Material:** CNC Machined Aluminum

- **Color:** Metallic Silver
- **Product Dimensions (L x W x H):** 16 x 5 x 4.2 cm (6.3 x 1.97 x 1.65 inches)
- **Item Weight:** 260 grams (0.57 lbs)
- **Jaw Length:** 68 mm (2.68 inches)
- **Jaw Width:** 38 mm (1.5 inches)
- **Style:** Modern, Compact, and Functional
- **Tensile Strength:** 20000 Pounds per square inch
- **Components Included:** Vise body, various jaw inserts (e.g., for cylindrical objects).

Double-Ended Mini Bench Vise

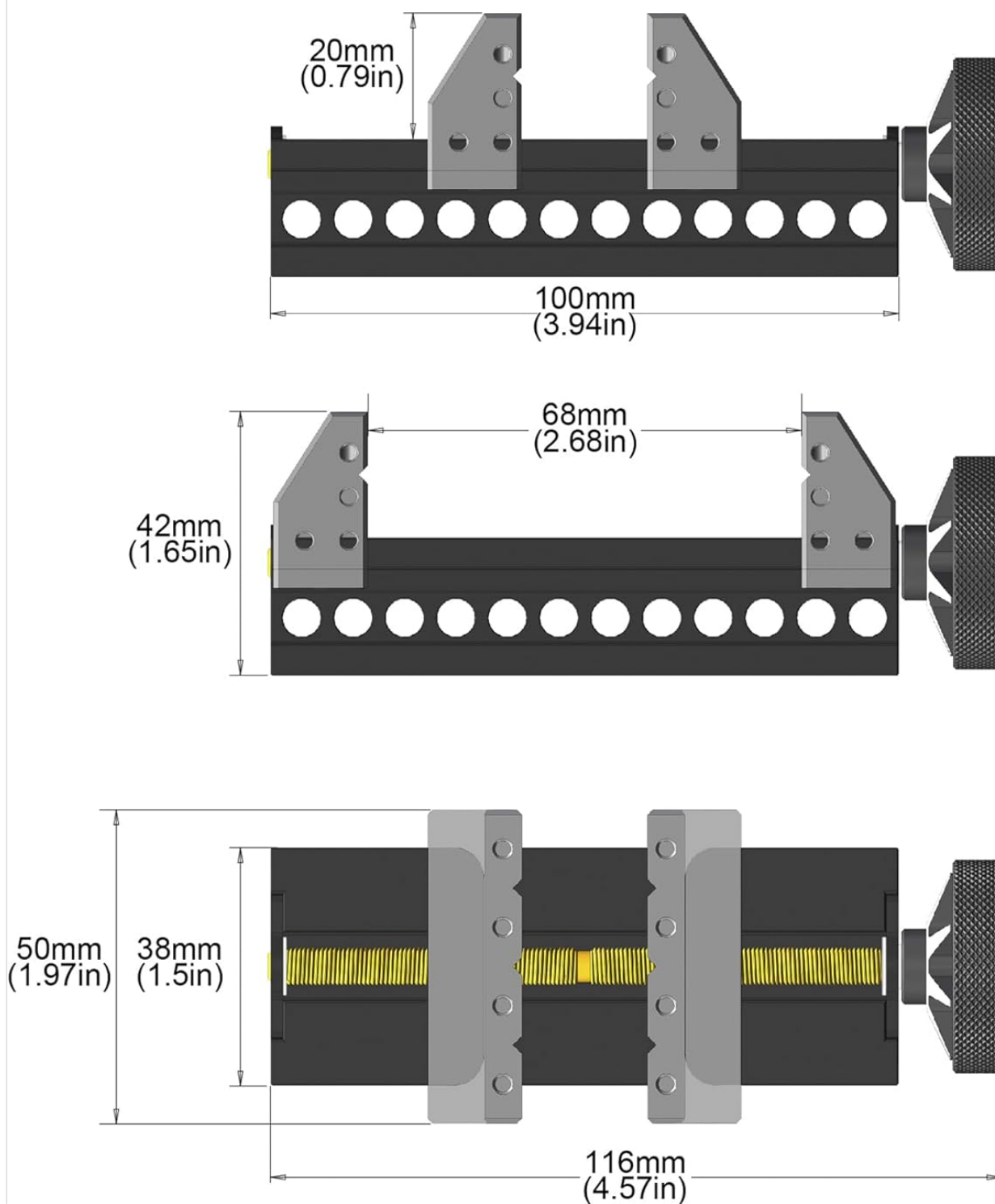


Figure 7.1: Detailed dimensional drawing of the ARROWMAX Mini Double-Sided Bench Vise, showing key measurements such as

jaw width, overall length, and height.

8. WARRANTY AND SUPPORT

For warranty information or technical support regarding your ARROWMAX Mini Double-Sided Bench Vise, please contact ARROWMAX customer service directly. Refer to the product packaging or the official ARROWMAX website for contact details.

Manufacturer: Freemax Technology Company Limited (IMPORT)

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