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Glendo 003-773

GRS 003-773 MicroBlock XL Vise User Manual

Model: 003-773 | Brand: Glendo

Introduction

The GRS 003-773 MicroBlock XL Vise is a precision workholding device designed for detailed engraving, jewelry making, and other intricate tasks. Weighing 7 lbs and featuring a 100 mm ball diameter, it offers a stable and versatile platform for various applications. Its low-profile design makes it particularly suitable for use under a microscope, providing enhanced visibility and control. This manual provides essential information for the safe and effective setup, operation, and maintenance of your MicroBlock XL Vise.

Safety Information

- Always wear appropriate personal protective equipment (PPE), such as safety glasses, when operating or adjusting the vise.
- Ensure the vise is placed on a stable, level, and secure workbench or surface before use to prevent tipping or movement.
- Do not overtighten the vise jaws, as this can damage the workpiece or the vise itself. Apply only necessary force.
- Keep hands and fingers clear of the jaws when opening or closing to avoid pinching.
- Do not use the vise for purposes other than its intended design as a workholding device.
- Regularly inspect the vise for any signs of wear, damage, or loose components. Do not use if damaged.
- Keep the work area clean and well-lit to prevent accidents.

Setup

Unpacking and Component Identification

Carefully remove all components from the packaging. Verify that all parts are present:

- MicroBlock XL Vise body
- Base ring
- Jaw pins (if included)
- Hex key/wrench for adjustments
- Additional accessories (e.g., thermoplastic rods, mounting screws)



Figure 1: GRS MicroBlock XL Vise with jaws open, showing the main body, base ring, and various included accessories such as hex keys, screws, and thermoplastic rods.

Assembly and Placement

1. Place the MicroBlock XL Vise body onto the base ring. The base ring provides stability and protects your work surface.
2. Ensure the vise is positioned on a sturdy, non-slip surface. For microscope work, position the vise directly under the microscope's objective lens, ensuring adequate clearance for tools and hands.
3. If using the included mounting screws (not always necessary for standard use), secure the vise to your workbench according to your specific setup requirements.

Operating Instructions

Adjusting the Vise Jaws

The MicroBlock XL Vise features two independent jaws that can be adjusted to securely hold various workpieces.

1. To open or close the jaws, rotate the knurled screws located on the sides of the vise body. Turn clockwise to close and counter-clockwise to open.
2. Place your workpiece between the jaws. Gently tighten the screws until the workpiece is held firmly in place. Avoid excessive force, which can damage delicate items.
3. The jaws are designed to accept various jaw pins and attachments for specialized holding needs. Insert these into the pre-drilled holes on the jaw faces as required.



Figure 2: GRS MicroBlock XL Vise with jaws closed, demonstrating its compact form and the included accessories.

Rotating and Tilting the Vise

The spherical design of the MicroBlock XL allows for smooth rotation and tilting, providing optimal access to your workpiece from any angle.

- To rotate the vise, simply turn the entire vise body on its base. The internal mechanism allows for fluid 360-degree rotation.
- To tilt the vise, gently push or pull the top portion of the vise body. The ball-and-socket design allows for a wide range of tilting angles.
- Once the desired angle is achieved, the weight of the vise and the friction with the base will typically hold it in position. For more secure positioning, some models may include a locking mechanism (refer to specific product features if applicable).

Accessory Compatibility

The MicroBlock XL Vise is compatible with all MicroBlock accessories, expanding its versatility for various tasks. These accessories can be easily integrated to enhance holding capabilities for unique shapes and sizes.

Maintenance

- **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, ensuring to dry thoroughly afterward.
- **Lubrication:** Periodically apply a light machine oil to the jaw screws and any moving parts to ensure smooth operation and prevent corrosion. Avoid over-lubricating, as this can attract dust.
- **Storage:** Store the vise in a clean, dry environment when not in use. Protect it from extreme temperatures and humidity.
- **Inspection:** Regularly inspect the vise for any signs of wear, damage, or loose fasteners. Tighten any loose screws and replace worn parts as necessary to maintain optimal performance and safety.

Troubleshooting

Problem	Possible Cause	Solution
Jaws are stiff or difficult to move.	Accumulation of dirt/debris; lack of lubrication.	Clean the jaw screws and apply a light machine oil.
Vise does not hold workpiece securely.	Jaws not tightened sufficiently; workpiece shape.	Ensure jaws are tightened firmly. Use appropriate jaw pins or accessories for irregular shapes.
Vise wobbles on the workbench.	Uneven surface; base ring not properly seated.	Place on a flat, stable surface. Ensure the base ring is correctly positioned. Consider mounting the vise if persistent.

Specifications

Feature	Detail
Model Number	003-773
Brand	Glendo
Weight	7 lbs (approx. 3.17 kg)
Ball Diameter	100 mm (approx. 3.94 inches)
Color	Black
Style	Modern
Compatibility	Compatible with all MicroBlock accessories
UPC	640823605053

Warranty and Support

For warranty information, technical support, or to inquire about replacement parts, please contact Glendo customer service directly. Refer to the official Glendo website or product packaging for the most current contact details.
Manufacturer: Glendo
Date First Available: August 4, 2020

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