

Bolisila 100x150x75MM Z Axis Manual Motion Portable Cabinet

Bolisila Moving Table 100x150x75MM Z Axis Manual Motion Portable Cabinet User Manual

Model: 100x150x75MM Z Axis Manual Motion Portable Cabinet (Z stroke 60mm)

1. INTRODUCTION

This manual provides essential information for the safe and efficient use of your Bolisila Moving Table. Please read these instructions carefully before operating the device to ensure proper function and longevity. This Z-axis manual motion platform is designed for precise vertical adjustments in various applications.

2. PRODUCT FEATURES

- **Compact and Lightweight Design:** Engineered for portability and ease of integration into existing setups.
- **High Reliability:** Constructed for consistent performance in demanding environments.
- **Versatile Applications:** Suitable for production machinery, optical laboratory measurements, displacement fine-tuning, and precise quantitative movement measurements.
- **Precision Movement:** Designed for users requiring high-precision adjustments.
- **Durable Material:** Manufactured from aluminum alloy for strength and stability.

3. SPECIFICATIONS

The Bolisila Moving Table offers precise Z-axis motion with the following technical specifications:

Parameter	Value
Name	1D Work Platform
Boundary Dimension (L x W x H)	100 x 150 x 75 mm
Workbench Panel (L x W)	100 x 150 mm
Minimum Height	75 mm
Maximum Height	135 mm

Parameter	Value
Z-Axis Stroke	60 mm
Material	Aluminum Alloy
Item Weight	5.51 pounds (approx. 2.5 kg)
Assembly Required	No

Note: All dimensions are approximate and subject to minor manufacturing variations.

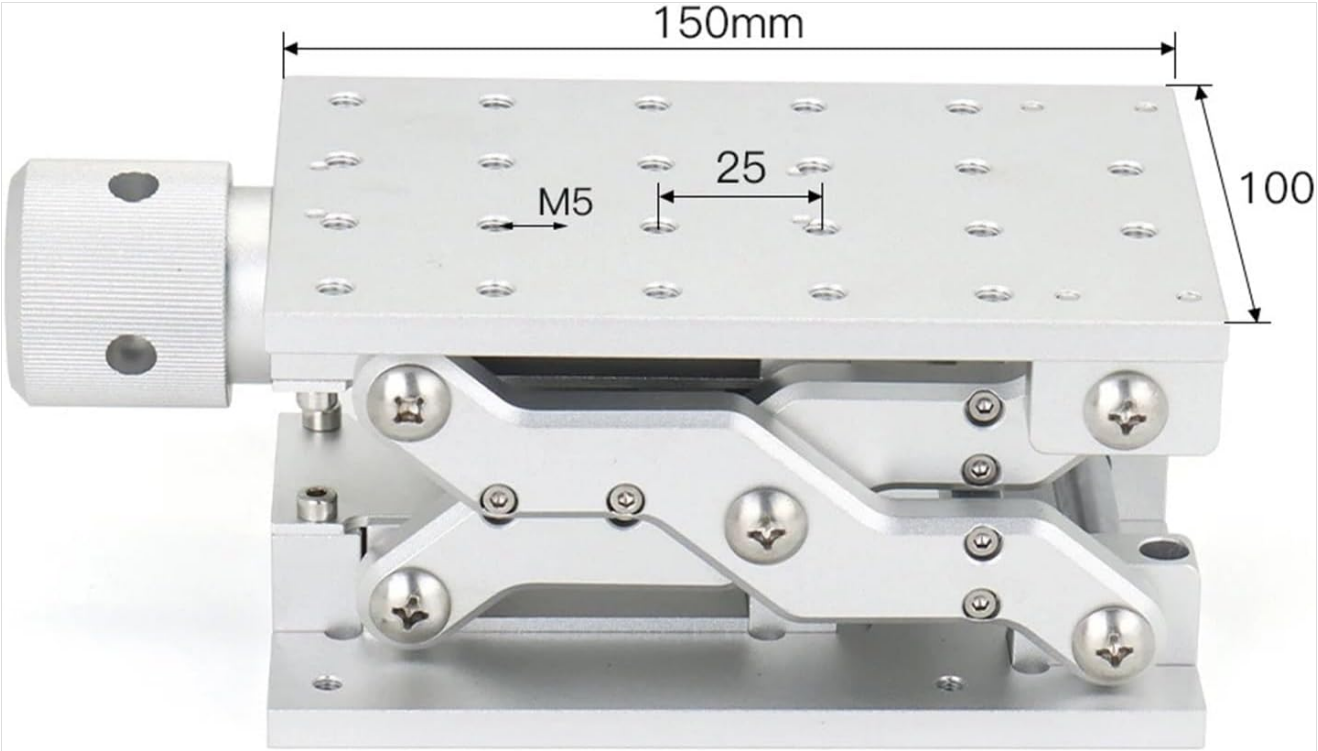


Figure 3.1: Top view of the Bolisila Moving Table with key dimensions (150mm length, 100mm width) and M5 screw hole spacing (25mm) indicated.

4. SAFETY INFORMATION

- Always handle the moving table with care to prevent damage or injury.
- Ensure the table is placed on a stable, level surface before operation.
- Do not exceed the maximum load capacity of the table (specific load capacity not provided, exercise caution).
- Keep fingers and other body parts clear of moving parts during adjustment.
- Avoid applying excessive force to the adjustment knob, as this may damage the mechanism.
- Store the device in a clean, dry environment when not in use.

5. SETUP

The Bolisila Moving Table is designed for immediate use with no assembly required. Follow these steps for initial setup:

1. **Unpacking:** Carefully remove the moving table from its packaging. Inspect for any signs of damage during

transit.

2. **Placement:** Position the moving table on a flat, stable, and vibration-free surface suitable for your application. Ensure adequate clearance around the table for operation and access to the adjustment knob.
3. **Mounting (Optional):** If permanent mounting is desired, use appropriate M5 screws (not included) to secure the base of the table to your workbench or equipment. The base features multiple mounting holes for flexibility.

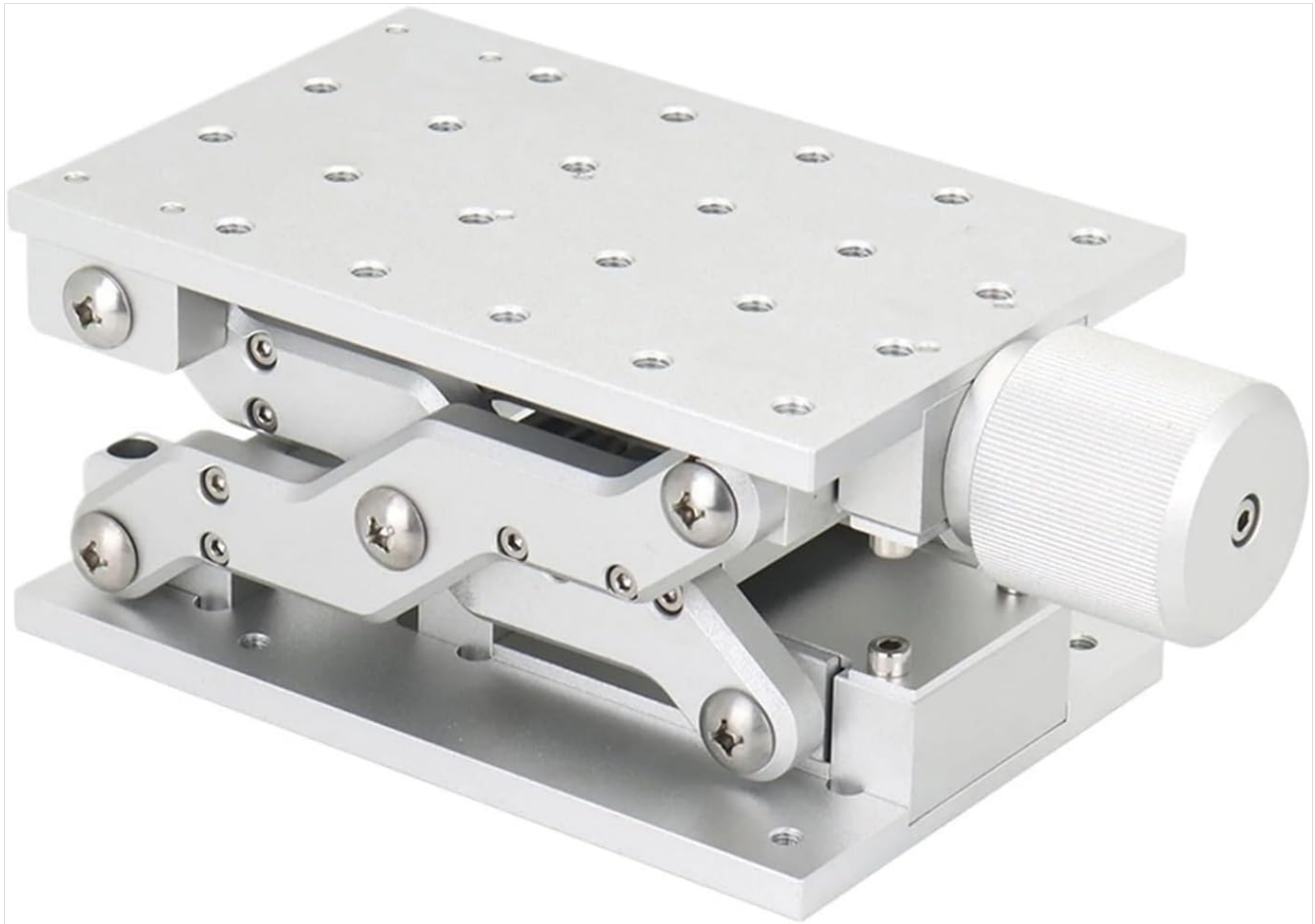


Figure 5.1: The Bolisila Moving Table in its initial, compact configuration, ready for placement.

6. OPERATION

The Z-axis motion of the Bolisila Moving Table is controlled manually via a precision adjustment knob. This allows for fine vertical positioning of objects placed on the workbench panel.

1. **Placing Objects:** Carefully place the object or equipment you wish to adjust onto the top workbench panel of the moving table. Ensure the object is centered and stable.
2. **Adjusting Height:** Locate the knurled adjustment knob on the side of the table.
3. **Raising the Platform:** Turn the adjustment knob clockwise to raise the workbench panel.
4. **Lowering the Platform:** Turn the adjustment knob counter-clockwise to lower the workbench panel.
5. **Fine Adjustment:** Rotate the knob slowly for precise, incremental adjustments. The scissor-lift mechanism provides smooth and stable vertical movement within the 60mm Z-stroke range (from 75mm minimum height to 135mm maximum height).

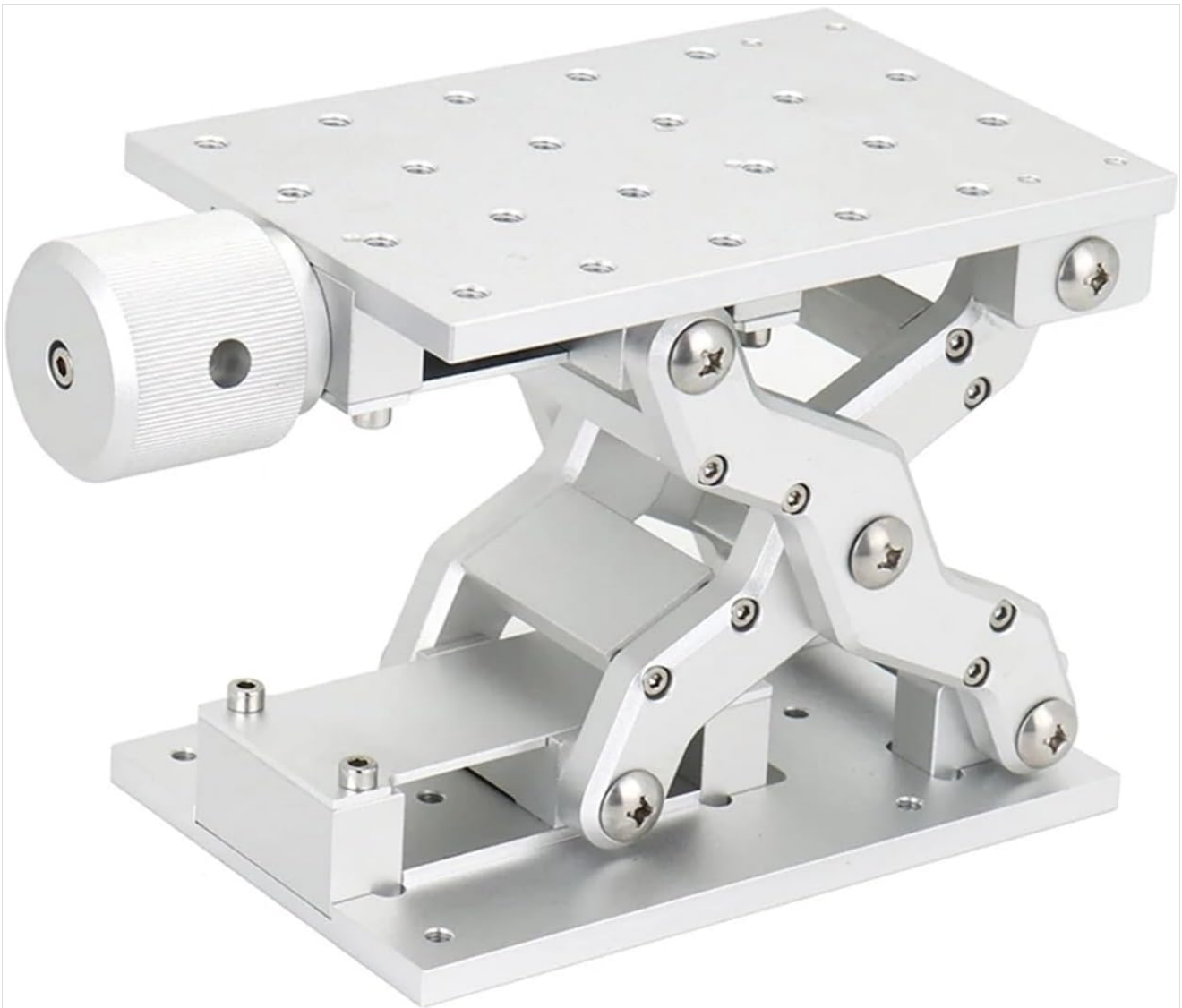


Figure 6.1: The moving table with its platform partially raised, demonstrating the scissor-lift mechanism and the adjustment knob.

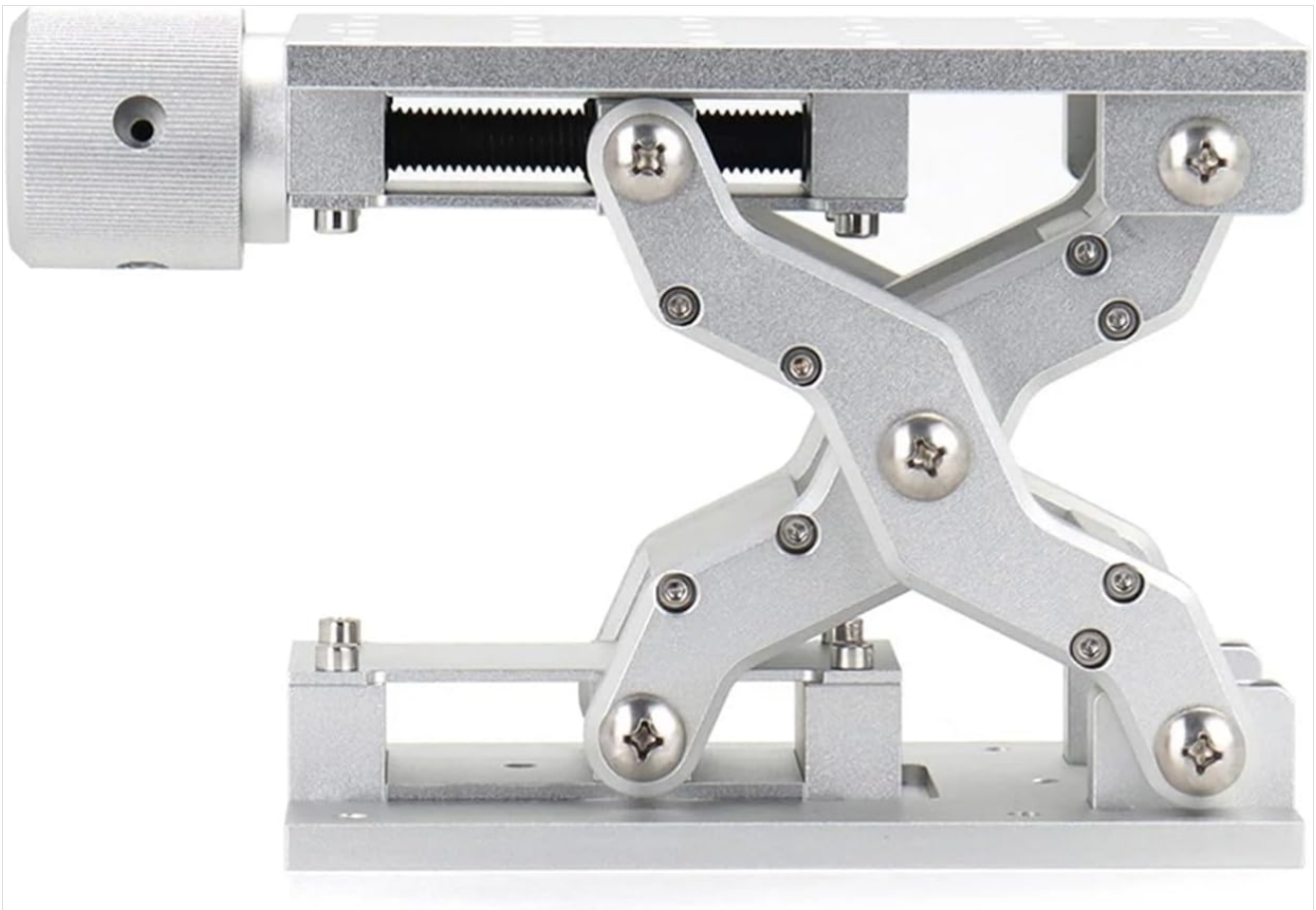


Figure 6.2: A side view illustrating the internal screw drive and scissor-lift components responsible for the Z-axis motion.

7. MAINTENANCE

Regular maintenance ensures the continued precision and smooth operation of your Bolisila Moving Table.

- **Cleaning:** Wipe the exterior surfaces with a soft, dry cloth. For stubborn dirt, a slightly damp cloth can be used, followed by immediate drying. Avoid abrasive cleaners or solvents.
- **Lubrication:** Periodically inspect the screw drive mechanism for dryness. If necessary, apply a small amount of light machine oil or grease suitable for precision mechanisms to the screw thread. Do not over-lubricate.
- **Inspection:** Regularly check all screws and fasteners for tightness. Tighten any loose components carefully to avoid over-tightening.
- **Storage:** When not in use for extended periods, store the moving table in its lowest position in a clean, dry, and dust-free environment.

8. TROUBLESHOOTING

If you encounter issues with your moving table, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Stiff or rough adjustment	Lack of lubrication on screw drive; dust/debris in mechanism; loose components.	Clean the mechanism and apply light lubrication. Check for and tighten any loose screws.

Problem	Possible Cause	Solution
Platform wobbles or is unstable	Loose mounting screws; uneven surface; damaged components.	Ensure the table is on a stable, level surface. Check and tighten all mounting and structural screws. If damage is suspected, discontinue use.
Limited or no vertical movement	Mechanism jammed; adjustment knob stripped; exceeding Z-stroke limits.	Do not force the knob. Check for obstructions. If the knob turns freely but no movement occurs, the internal mechanism may be damaged. Ensure you are operating within the 60mm Z-stroke range.

If the problem persists after attempting these solutions, please contact the manufacturer or seller for further assistance.

9. WARRANTY AND SUPPORT

Specific warranty information for the Bolisila Moving Table is not provided in the product data. For details regarding warranty coverage, returns, or technical support, please refer to the purchase documentation or contact the seller directly through the platform where the product was acquired.

When contacting support, please have your product model number (100x150x75MM Z Axis Manual Motion Portable Cabinet) and purchase information readily available.

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