USER MANUAL

HTZ120 / HTZ210 | Manual Z-Axis Scissor Lift Stage

1. Product Overview

The HTZ120 and HTZ210 are manually operated vertical positioning platforms. A screw-driven scissor mechanism raises or lowers the top table along the Z-axis. They are intended for supported equipment positioning in laboratory, inspection and fixture applications.

2. Model Specifications

Specification	HTZ120	HTZ210
Table size	120 × 80 mm	210 × 150 mm
Lifting stroke	60 mm	110 mm
Rated load*	20 kg	30 kg
Minimum adjustment*	5 µm	10 µm
Net weight	1.15 kg	3.8 kg
Material	Hard aluminum	Hard aluminum
Surface finish	Black anodized	Black anodized
Motion axis	Z-axis (vertical)	Z-axis (vertical)
Drive	Manual screw	Manual screw

*Rated load and minimum adjustment are supplied product specifications. Minimum adjustment does not indicate positioning accuracy.

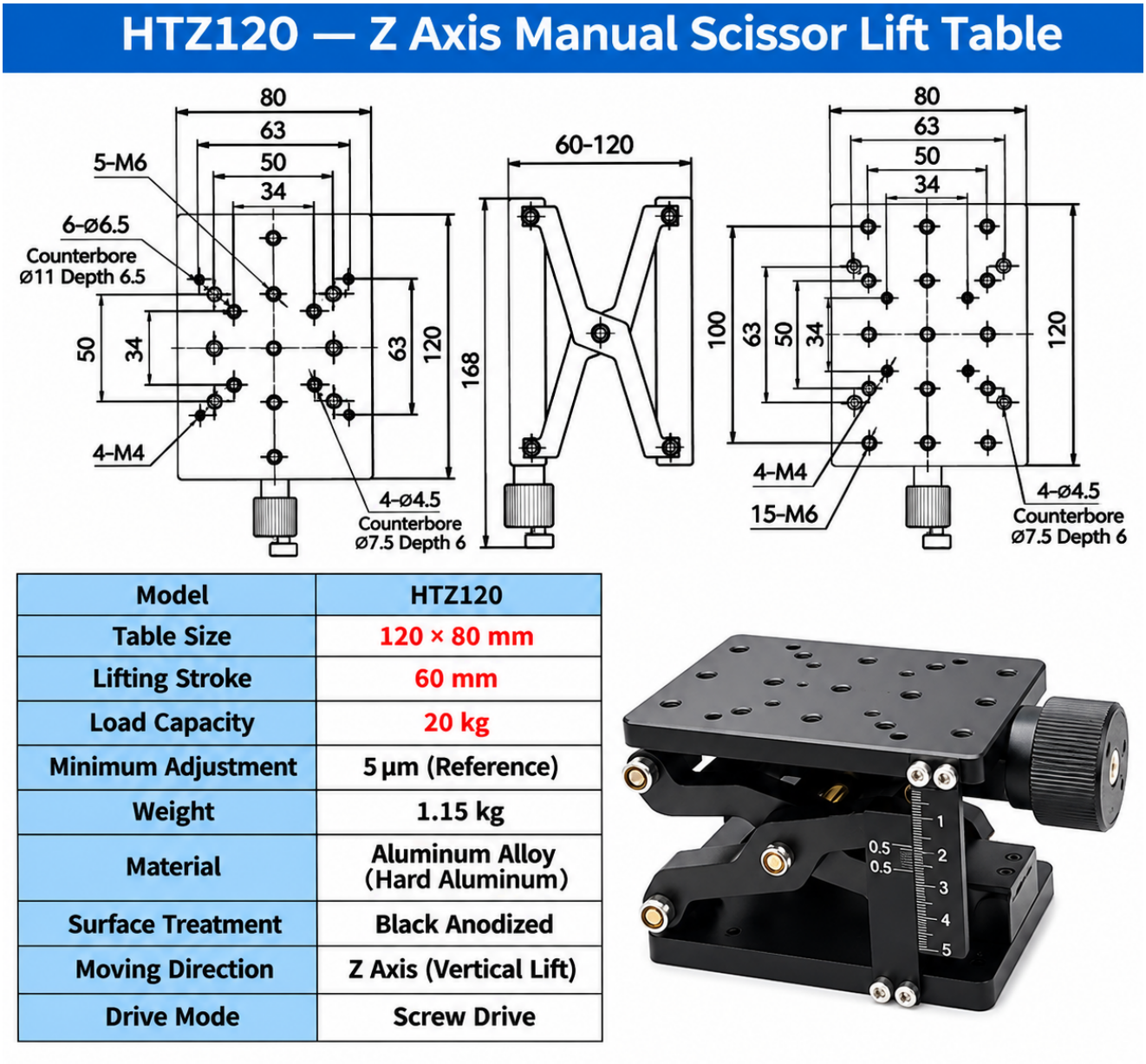
3. Main Components

Top mounting platform; scissor lifting linkage; manual adjustment knob and screw; lower base with mounting holes; detachable scale bar (where supplied).



4. HTZ120 — Dimensions and Mounting

Use the HTZ120 dimensional drawing to identify the mounting hole positions and clearances before installation.



Model	HTZ120
Table Size	120 × 80 mm
Lifting Stroke	60 mm
Load Capacity	20 kg
Minimum Adjustment	5 µm (Reference)
Weight	1.15 kg
Material	Aluminum Alloy (Hard Aluminum)
Surface Treatment	Black Anodized
Moving Direction	Z Axis (Vertical Lift)
Drive Mode	Screw Drive

Figure 1. HTZ120 mounting dimensions and product layout. Dimensions shown in millimeters.

5. Installation

- Place the stage on a level, stable support surface.
- Secure the lower base using fasteners compatible with the mounting holes. Do not overtighten.
- Attach the equipment to the top platform with suitable fasteners.
- Center the load and check that it does not obstruct the moving scissor links.

6. Height Adjustment and Operation

The side adjustment knob operates the screw-driven scissor mechanism. The scale bar, where fitted, provides a visual height reference.

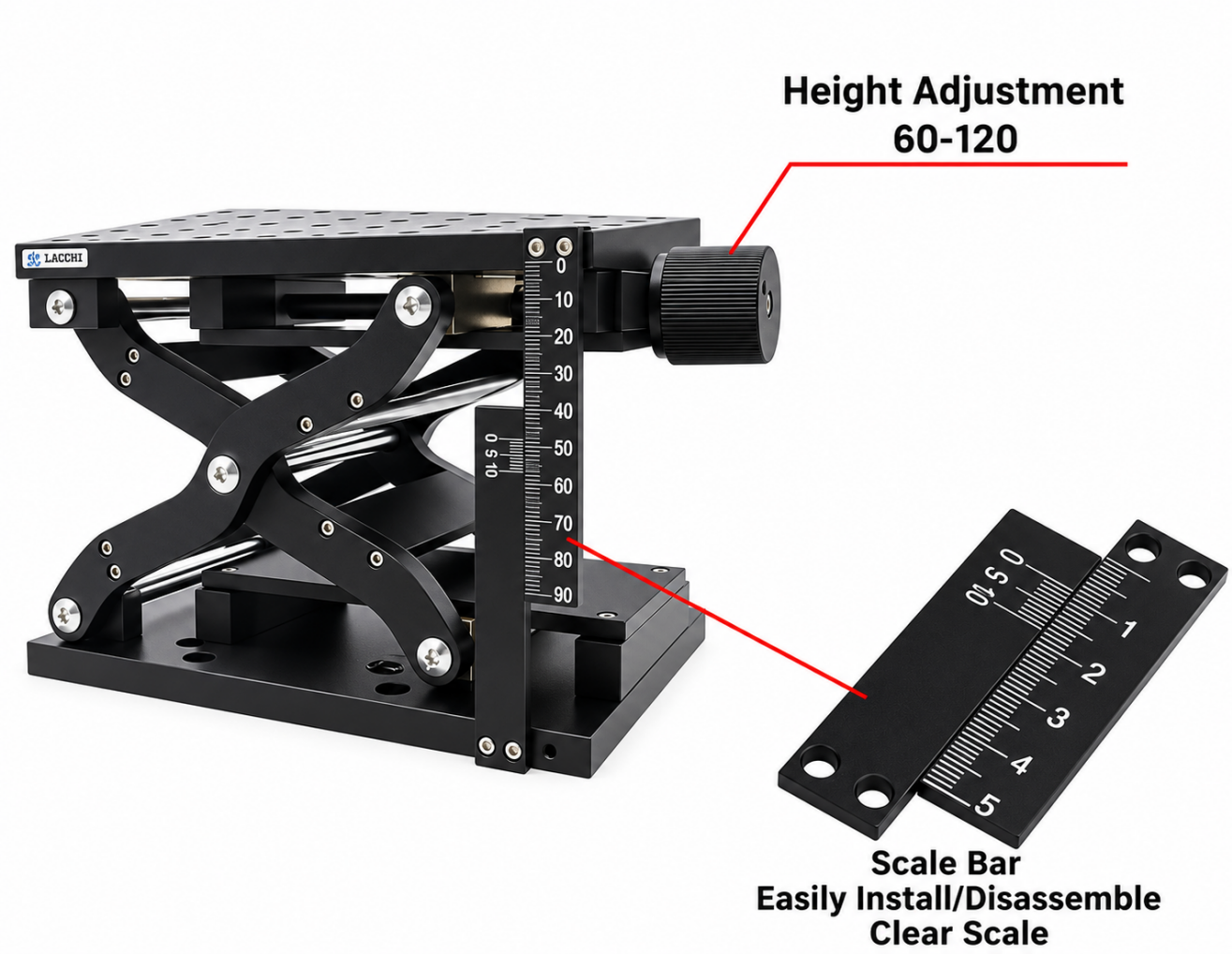


Figure 2. Adjustment knob and removable height scale bar.

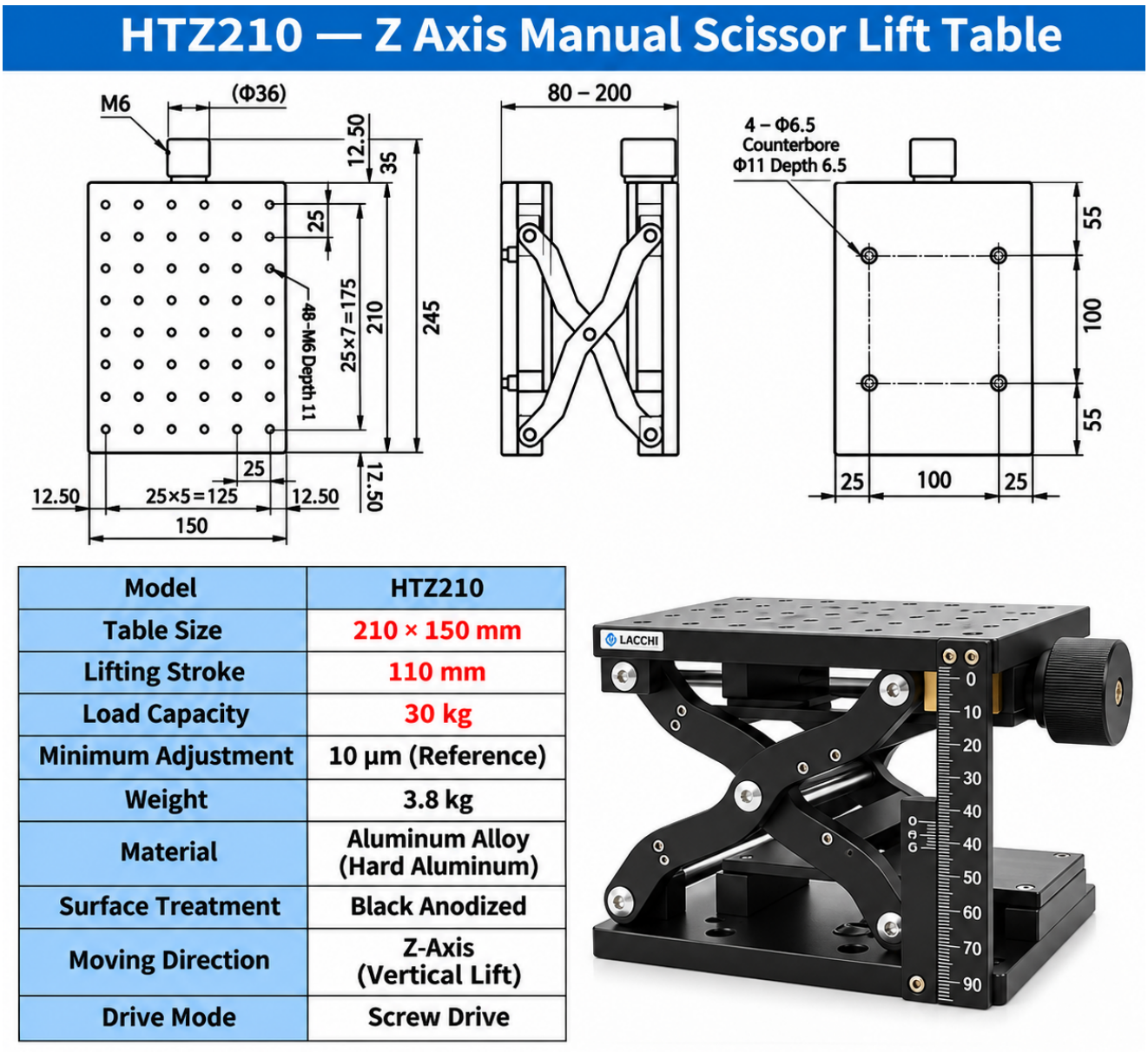
- Confirm that the stage is securely mounted and the load is stable.
- Turn the manual adjustment knob gradually to raise or lower the top platform.
- Observe the movement and stop before reaching a mechanical end limit; do not force the knob.
- After adjustment, verify that the supported equipment is stable before use.

7. Safe Use

- Keep hands, tools and loose objects clear of scissor joints and pinch points.
- Do not exceed the specified load for the selected model. Avoid impacts and off-center loads.
- Do not use the stage to lift people or as a safety-critical support.
- Do not use powered tools to drive the adjustment knob. Stop if movement becomes obstructed or unusually difficult.

8. HTZ210 — Dimensions and Mounting

Use the HTZ210 drawing to check its larger mounting platform and base-hole pattern before attaching equipment.



Model	HTZ210
Table Size	210 × 150 mm
Lifting Stroke	110 mm
Load Capacity	30 kg
Minimum Adjustment	10 μm (Reference)
Weight	3.8 kg
Material	Aluminum Alloy (Hard Aluminum)
Surface Treatment	Black Anodized
Moving Direction	Z-Axis (Vertical Lift)
Drive Mode	Screw Drive

Figure 3. HTZ210 mounting dimensions and product layout. Dimensions shown in millimeters.

9. Care and Maintenance

Keep the screw, scissor joints and platform free of dust and debris. Wipe exposed surfaces with a soft, dry cloth. Periodically check accessible fasteners and moving parts for looseness or visible damage. Store in a clean, dry environment.

10. Package Contents

1 × Manual Z-Axis Scissor Lift Stage (HTZ120 or HTZ210, according to the selected model).