USER MANUAL

SEMCI-C-80 | Manual X-Axis Linear Translation Stage | Rack and Pinion

1. Product Overview

The SEMCI-C-80 is a manually operated linear translation stage for adjusting the position of mounted equipment along the X-axis. A rotary knob drives the rack-and-pinion mechanism to move the sliding platform.

2. Specifications

Model	SEMCI-C-80
Drive mechanism	Rack and pinion
Sliding table size	30 × 50 mm
Travel range	Approximately ±30 mm
Travel per knob revolution	Approximately 18.8 mm
Horizontal load capacity	29.4 N
Vertical load capacity	14.7 N
Body material	Aluminum alloy
Finish	Black

3. Installation

- Place the stage on a clean, level mounting surface.
- Secure the base using suitable M4 screws and the mounting holes shown in the dimensional drawing.
- Attach the equipment to the upper sliding table using compatible M3 fasteners.
- Check that the stage and mounted equipment can move freely before operation.

4. Operation

- Turn the adjustment knob to move the platform along the X-axis.
- Use the engraved scale as a visual reference for position changes.
- Keep the stage within its specified travel range. Do not force the knob at the end of travel.
- Use the securing clip / locking hardware, where fitted, to hold the selected position.

5. Care and Handling

Keep the sliding surfaces and rack free of dust and debris. Avoid impacts, excessive loads, and contact with liquids. Store the stage in a clean, dry location.

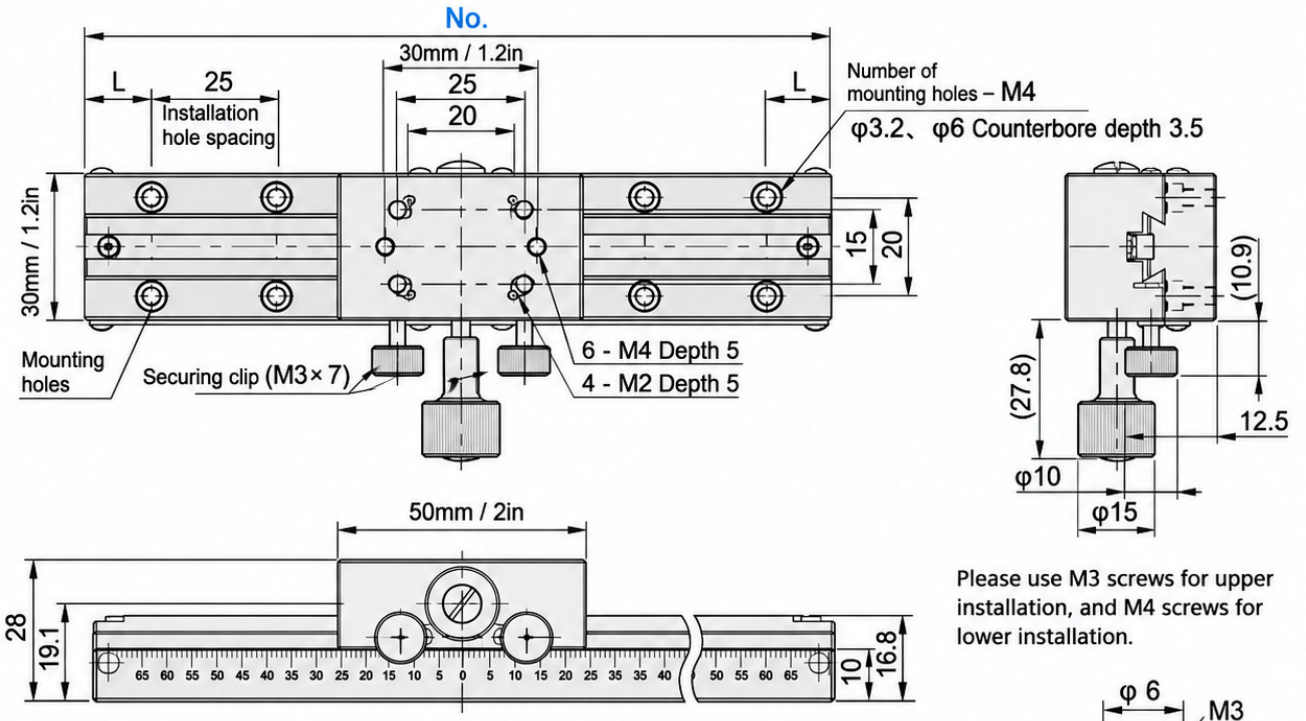
6. Package Contents

1 × SEMCI-C-80 Manual Linear Translation Stage

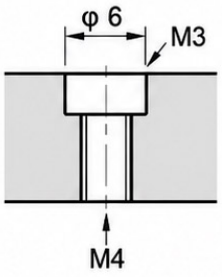
DIMENSIONAL DRAWING

Mounting layout, component views, and reference dimensions

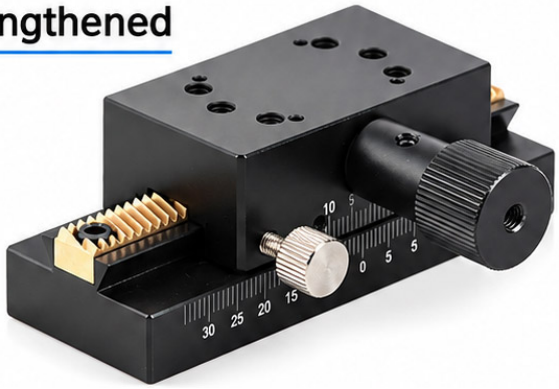
Dimenstional Drawing:



Please use M3 screws for upper installation, and M4 screws for lower installation.



X-axis lengthened



- Sliding Table: Approx. 30 × 50mm / 1.2 × 2in
- Moving Distance: ± approx. 30mm / 1.2in
- Knob Rotation 1 Circle Movement: Approx. 18.8mm / 0.7in

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