# MiniMech™ Linear Stages

- Lockable thumbscrew drive actuators or micrometers
- Upgradeable to motorized drive
- Precision pre-loaded steel ball bearing slides
- One piece machined aluminum body
- Low profile design

MiniMech™ Linear Stages are supplied with either thumbscrew or graduated micrometer actuators. The thumbscrew actuators provide 12.7 mm of travel and the micrometers provide 6.5 mm of travel. Both of these actuators provide a minimum incremental movement of 1 µm.

The actuators on these stages can be upgraded at any time to provide fully motorized drive using EncoderDriver™ or MotorDriver™ actuators. These actuators give full range travel of 10 mm and a minimum incremental movement or of less than 1 µm.

MiniMech Linear Stages feature a positioner body machined from a single piece of aluminum. This design produces an exceptionally rigid

### **Specifications**

Thumbscrew: 12.7 mm Micrometer: 6.5 mm

Resolution -

Thumbscrew Actuator: 1.0 um Micrometer Actuator: 1.0 µm MotorDriver Actuator: 0.1 µm EncoderDriver Actuator: 0.05 µm

Tracking Accuracy: 2 µm

Reading Accuracy: 1 division = 10 μm (micrometer stages only)

Load Capacity -

Horizontal: 5.5 kg

Vertical: 0.5 kg (1 kg with drive

below the stage)

Weight (with micrometer): 0.15 kg

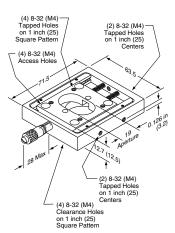


minipositioner, ensuring accuracy and smoothness of operation. Precise linear motion is achieved by the use of pre-loaded, hardened steel ball bearing slides, individually adjusted and

(4) 8-32 (M4) 8-32 (M4) Tapped Hole (4) 8-32 (M4) (2) 8-32 (M4) Tapped Holes on 1 inch (25) Centers

#### 74-0006/61-0006

MiniMech™ Linear Stage with Thumbscrew Actuator tested during assembly. Spring-loaded guides maintain contact between the translation stage and driving head, ensuring minimal backlash.



## 74-0014/61-0014

MiniMech™ Linear Stage with Micrometer Actuator

# MiniMech™ Linear Stages

Catalog Number	Description	Travel	Price US
74-0006	MiniMech Linear Stage, 12.7 mm Travel, Thumbscrew Drive Actuator, Metric, without Top	12.7 mm Plate	\$194.00
74-0014	MiniMech Linear Stage, 6.5 mm Travel, Micrometer Drive, Metric, without Top Plate	6.5 mm	\$197.40
61-0006	MiniMech Linear Stage, 12.7 mm Travel, Thumbscrew Drive Actuator, Inch, without Top Pl	0.5 inch ate	\$203.70
61-0014	MiniMech Linear Stage, 6.5 mm Travel, Micrometer Drive, Inch, without Top Plate	0.25 inch	\$210.00
37-0221	10 mm MotorDriver Actuator		\$616.35
37-0494	10 mm EncoderDriver Actuator Package		\$1,268.40

**Optics** 

Lancas

Mirrors & Beamsplitters

Prisms & Polarizers

Filters

Pinholes

Optomechanics

Breadboards & Rails

Mounting

Mirror & Component Mounts

Manual Positioners

Motorized