

MacroMech™ Side Driven Linear Stages

Optics

Lenses

Mirrors &
Beamsplitters

Prisms &
Polarizers

Filters

Pinholes

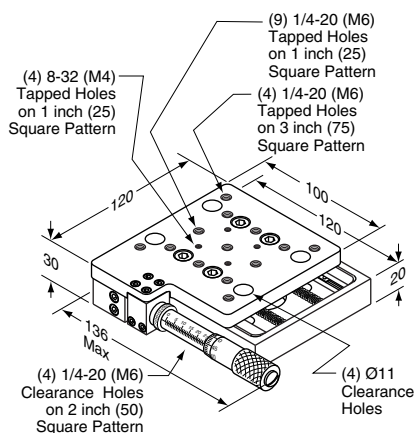
- 25 mm (1 inch) travel
- Supplied with top plates
- Side driven compact footprint
- Precision pre-loaded ball bearing slides
- Tracking accuracy 4 μm
- 1/4-20 (M6) hole patterns



Ealing's MacroMech stages are designed for positioning medium weight loads with a high degree of accuracy and stability. Two- and three-axis positioning assemblies can be constructed by bolting stages together directly, and using one of the MacroMech right angle brackets to support a third stage where necessary. All MacroMech linear stages feature a positioner body machined from a single piece of aluminum alloy, providing exceptional rigidity at a light weight. Accuracy and smoothness of operation are achieved by the use of pre-loaded, high precision ball bearing slides, individually adjusted and tested during assembly. Spring-loaded guides maintain contact between translation stage and actuator driving head, ensuring an absence of 'stiction' and backlash.

MacroMech 25 mm side driven linear stages are supplied with a high quality micrometer which is clearly marked for 0.01 mm accuracy over the full 25 mm of travel (1/2 division is equal to 5 μm). The micrometer drive can be

replaced with either a MotorDriver™ or EncoderDriver™ Actuator for more accurate motorized positioning control. MacroMech side driven stages are available with metric or inch hole patterns.



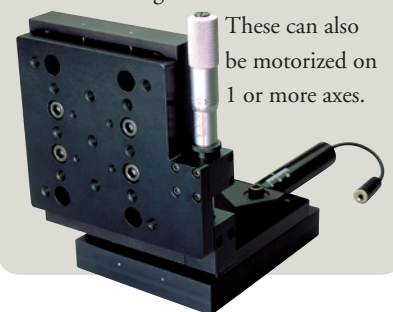
74-3190/61-3190

MacroMech™ Side Driven Linear Stage,
25 mm Travel

Multi-axis Side Driven Stages

Using MacroMech angle brackets
Multi-axis stages can be constructed.

These can also
be motorized on
1 or more axes.



Specifications

Range: 25 mm (1 inch)

Minimum Incremental Motion -

Micrometer Actuator: 1 μm

MotorDriver Actuator: 0.1 μm

EncoderDriver Actuator: 0.05 μm

Tracking Accuracy: 4 μm

Reading Accuracy: 1 division = 10 μm
(on micrometer version)

Load Capacity -

Horizontal: 12 kg

Vertical: 0.5 kg (4 kg with drive
below the stage)

Weight (with micrometer): 0.9 kg (2 lb)

MacroMech™ Side Driven Linear Stages (Metric)

Catalog Number	Description
74-3190	MacroMech Side Driven Linear Stage, 25 mm Travel, Micrometer Drive, Metric Hole Patterns
37-0015	25 mm MotorDriver Actuator
37-1104	25 mm EncoderDriver Actuator

MacroMech™ Side Driven Linear Stages (Inch)

Catalog Number	Description
61-3190	MacroMech Side Driven Linear Stage, 25 mm Travel, Micrometer Drive, Inch Hole Patterns
37-0015	25 mm MotorDriver Actuator
37-1104	25 mm EncoderDriver Actuator