End Driven Linear Stages

Optics

Lenses

Mirrors & eamsplitters

Prisms & Polarizers

Filters

Pinholes

25 mm (1 inch) travel

- Precision pre-loaded ball bearing slides
- Choice of 4 different actuator types
- One piece machined aluminum body
- Tracking accuracy 4 μm
- 1/4-20 (M6) hole patterns



Opto-

Breadboards

Mounting

Mirror &

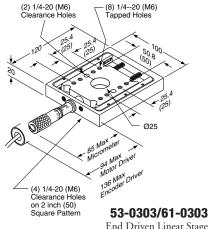
Manual Micro

Motorized

Ealing's MacroMech stages are designed for positioning medium weight loads with a high degree of accuracy and stability. All 25 mm linear stages feature a positioner body machined from a single piece of aluminum, providing exceptional rigidity. High 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 minimal 'stiction' and backlash.

MacroMech 25 mm linear stages are supplied with either a thumbscrew drive actuator or with a micrometer which is clearly marked for 0.01 mm accuracy over the full 25 mm of travel

 $(1/2 \text{ division is equal to 5 } \mu\text{m}).$ The micrometer drive can be easily removed from the stage. It can then be replaced with either a MotorDriver or EncoderDriver Actuator.



End Driven Linear Stage with Micrometer

Specifications

Range: 25 mm (1 inch)

Minimum Incremental Motion -Thumbscrew Actuator: 1 µm 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) Construction: One piece aluminum body, steel precision ground slides

and stage.

End Driven Linear Stages (Metric)

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Catalog Number	Description
53-0303	MacroMech End Driven Linear Stage, 25 mm Travel, Micrometer Drive, Metric Hole Patterns
37-0015	25 mm MotorDriver Actuator
37-1062	25 mm EncoderDriver Actuator

End Driven Linear Stages (Inch)

Catalog Number	Description
61-0303	MacroMech End Driven Linear Stage, 1 inch Travel, Micrometer Drive, Inch Hole Patterns
37-0015	25 mm MotorDriver Actuator
37-1062	25 mm EncoderDriver Actuator

