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500mm Travel, High Load Capacity, Motorized Linear Stage, Integrated Controller with Encoder

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Zaber™ High Load Capacity/Motorized Linear Stage

Stock **#25-174** **1 In Stock**

⊖ 1 ⊕ €5.040⁰⁰

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Product Downloads

General

Metric **Type:**

Yes **Encoder:**

Yes **Manual Control/ LED Indicators:**

Manufacturer:
Zaber Technologies Inc.

Note:
Requires a 24-48 VDC power supply and either [#15-295](#) for USB connectivity or [#15-297](#) for RS-232 connectivity. A data cable ([#15-296](#) or [#15-299](#)) can be used to daisy chain multiple stages together to control simultaneously.

Type of Motor:
Stepper (2 Phase)

Encoder Type:
Rotary Quadrature Encoder

Physical & Mechanical Properties

Type of Movement:
Linear (X)

Guide System:
Recirculating Ball Linear

Stage Size (mm):
817.6 x 131.0

Travel (mm):
500mm

Accuracy (µm):
225 (unidirectional)

Backlash (µm):
<25

Height (mm):
57.2

Load Capacity (kg):
510

Repeatability (µm):
<4

Speed (mm/s):
0.0002 to 240

Thrust (N):
1200

Weight (kg):
5.758

Encoder Resolution:
400 CPR

Cantilevered Load Capacity (N·m):
120

Optical Properties

Resolution (µm):
0.390625

Electrical

Maximum Operating Current (mA):
3600

Hardware & Interface Connectivity

Type of Drive:
Precision Ball Screw

Power Supply:
24-48 VDC

Computer Interface:
RS-232 with [#15-297](#)

Environmental & Durability Factors

Operating Temperature (°C):
0 - 50

Regulatory Compliance

RoHS 2015:
[Compliant](#)

Certificate of Conformance:
[View](#)

Reach 247:
[Compliant](#)

Product Details

- High Load Capacity of 510kg
- 500 and 1000mm Travel Options

- Integrated Controller and Encoder with 400 Counts per Revolution (CPR)

Zaber™ High Load Capacity Motorized Linear Stages feature a load capacity of 510kg (5003N) making them ideal for factory automation applications where precise linear adjustments of heavy components are necessary. These stages include a rotary quadrature encoder integrated into the stepper motor with 400 Counts per Revolution (CPR), as well as closed-loop control and slip/stall detection and recovery. Zaber™ High Load Capacity Motorized Linear Stages have an indexed knob providing versatility of analog control in the absence of digital input, as well as a flexible stainless steel dust cover to prevent the ingress of small particulates.

Note: A 24-48 VDC universal power supply (required), data cables for daisy chaining, and computer interface cables (USB or RS-232) are sold separately.

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