

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**

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1

+

C\$7,056^{.00}

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General	
Type:	Metric
Encoder:	Yes
Manual Control/ LED Indicators:	Yes
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.	
Stepper (2 Phase)	Type of Motor:
RotaryQuadrature Encoder	Encoder Type:
Physical & Mechanical Properties	
Linear (X)	Type of Movement:
Recirculating Ball Linear	Guide System:
817.6 x 131.0	Stage Size (mm):
500mm	Travel (mm):
225 (unidirectional)	Accuracy (µm):
<25	Backlash (µm):
57.2	Height (mm):
510	Load Capacity (kg):
<4	Repeatability (µm):
0.0002 to 240	Speed (mm/s):
1200	Thrust (N):
5.758	Weight (kg):
400 CPR	Encoder Resolution:
120	Cantilevered Load Capacity (N□m):
Optical Properties	
0.390625	Resolution (µm):
Electrical	
3600	Maximum Operating Current (mA):
Hardware & Interface Connectivity	
Precision Ball Screw	Type of Drive:
24-48 VDC	Power Supply:
RS-232 with #15-297	Computer Interface:
Environmental & Durability Factors	
0 - 50	Operating Temperature (°C):
Regulatory Compliance	
Compliant	RoHS 2015:
View	Certificate of Conformance:
Compliant	Reach 247:

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.