

[All Products](#) / [Optomechanics](#) / [Motorized Translation Stages](#) / [Motorized Linear Stages](#)

# Zaber™ High Load Capacity Motorized Linear Stages [See More](#)

by [Zaber™](#)



- High Load Capacity of 510kg
- 500 and 1000mm Travel Options
- Integrated Controller and Encoder with 400 Counts per Revolution (CPR)

## Common Specifications

### General

<b>Encoder:</b>	Yes	<b>Manual Control/ LED Indicators:</b>	Yes
<b>Manufacturer:</b>	Zaber Technologies Inc.	<b>Note:</b>	Requires a 24-48 VDC power supply and either <a href="#">#15-295</a> for USB connectivity or <a href="#">#15-297</a> for RS-232 connectivity. A data cable ( <a href="#">#15-296</a> or <a href="#">#15-299</a> ) can be used to daisy chain multiple stages together to control simultaneously.
<b>Type of Motor:</b>	Stepper (2 Phase)	<b>Encoder Type:</b>	Rotary Quadrature Encoder

### Physical & Mechanical Properties

<b>Type of Movement:</b>	Linear (X)	<b>Guide System:</b>	Recirculating Ball Linear
<b>Backlash (µm):</b>	<25	<b>Height (mm):</b>	57.2

Load Capacity (kg):	510	Repeatability (μm):	<4
Thrust (N):	1200	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 <a href="#">#15-297</a>
Environmental & Durability Factors			
Operating Temperature (°C):	0 - 50		

## Technical Information

## Products

Stage Size (mm)	Type	Travel (mm)	Encoder	Stock Number	Price	Buy
817.6 x 131.0	Metric	500mm	Yes	<a href="#">#25-174</a>	C\$6,909.00	1 In Stock
1317.6 x 131.0	Metric	1000mm	Yes	<a href="#">#25-175</a>	C\$7,840.00	1 In Stock



Copyright 2023, Edmund Optics Inc., 101 East Gloucester Pike, Barrington, NJ 08007-1380 USA  
Phone: 1-800-363-1992 :  
[www.edmundoptics.com](http://www.edmundoptics.com)