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500mm Travel, Belt Driven Motorized Linear Stage

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1

+

A\$3,992⁰⁰

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Product Downloads

General	
Metric	Type:
Yes	Encoder:
Yes	Manual Control/ LED Indicators:
Zaber Technologies Inc.	Manufacturer:

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.

2-Phase Stepper	Type of Motor:
Rotary Quadrature Encoder	Encoder Type:
Motor Installation and Setup Guide can be found here	Motor Installation Guide:

Physical & Mechanical Properties

Linear (X)	Type of Movement:
Recirculating Ball Linear Guide	Guide System:
650 x 134	Stage Size (mm):
500	Travel (mm):
550	Accuracy (µm):
< 250	Backlash (µm):
76	Height (mm):
50	Load Capacity (kg):
< 20	Repeatability (µm):
3000 (Maximum)	Speed (mm/s):
90	Thrust (N):
2.423	Weight (kg):
400 CPR	Encoder Resolution:

Optical Properties

7.03125	Resolution (µm):
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Electrical

3500	Maximum Operating Current (mA):
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Hardware & Interface Connectivity

Synchronous Belt	Type of Drive:
Power Supply Required and Sold Separately. USA: #15-294 Europe: #15-294 Japan: #23-662 Korea: #33-773 China: #15-294	Power Supply:
USB with #15-295 RS-232 with #15-297	Computer Interface:

Environmental & Durability Factors

0 - 50	Operating Temperature (°C):
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Regulatory Compliance

Compliant	RoHS 2015:
View	Certificate of Conformance:
Compliant	Reach 247:

Product Details

- Designed for Use with Most 40mm T-Slot Extrusion Framing Systems and Accessories

- 500mm and 1000mm Long Travel Lengths Available
- Controlled Manually or via RS-232 Serial Interface
- Integrated 400 Counts per Revolution (CPR) Motor Mounted Encoder

Zaber™ T-Slot Extrusion Belt Driven Stages are computer-controlled stages based on a modular, expandable, T-Slot extrusion structure. The stages are compatible and easily integrated with most T-Slot extrusion framing systems. Zaber™ T-Slot Extrusion Belt Driven Stages can be controlled by the [Zaber™ Programmable Joystick Controller](#) (sold separately), a computer using an optional RS-232 or USB data cable, or manually with the knob integrated into the motor unit. The stage mounting platforms include 6XM4 x 0.7 mounting holes on a 25mm grid. Each stage features rotary quadrature encoders integrated into the stepper motor, with 400 Counts per Revolution (CPR) encoder resolution. The integrated rotary encoder provides closed-loop control and slip/stall detection and recovery.

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