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500mm Travel, Belt Driven Motorized Linear Stage

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⊖ 1 ⊕ A\$3,992⁰⁰

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General

Metric **Type:**

Yes **Encoder:**

Yes **Manual Control/ LED Indicators:**

Zaber Technologies Inc. **Manufacturer:**

Requires a 24-48 VDC power supply and either [#15-](#) **Note:**

[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:
2-Phase Stepper

Encoder Type:
Rotary Quadrature Encoder

Motor Installation Guide:
Motor Installation and Setup Guide can be found [here](#)

Physical & Mechanical Properties

Type of Movement:
Linear (X)

Guide System:
Recirculating Ball Linear Guide

Stage Size (mm):
650 x 134

Travel (mm):
500

Accuracy (µm):
550

Backlash (µm):
< 250

Height (mm):
76

Load Capacity (kg):
50

Repeatability (µm):
< 20

Speed (mm/s):
3000 (Maximum)

Thrust (N):
90

Weight (kg):
2.423

Encoder Resolution:
400 CPR

Optical Properties

Resolution (µm):
7.03125

Electrical

Maximum Operating Current (mA):
3500

Hardware & Interface Connectivity

Type of Drive:
Synchronous Belt

Power Supply:
Power Supply Required and Sold Separately.
USA: [#15-294](#)
Europe: [#15-294](#)
Japan: [#23-662](#)
Korea: [#33-773](#)
China: [#15-294](#)

Computer Interface:
USB with [#15-295](#)
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

- Designed for Use with Mbst 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 x0.7 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.
