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500mm Travel, Belt Driven Motorized Linear Stage

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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 **Note:**

#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):**

Electrical

3500 **Maximum Operating Current (mA):**

Hardware & Interface Connectivity

Synchronous Belt **Type of Drive:**

Power Supply Required and Sold Separately: **Power Supply:**
USA: #15-294
Europe: #15-294
Japan: #23-662
Korea: #33-773
China: #15-294

USB with #15-295 **Computer Interface:**
RS-232 with #15-297

Environmental & Durability Factors

0 - 50 **Operating Temperature (°C):**

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 6X M4 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.

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