

# 1000mm Travel, Belt Driven Motorized Linear Stage

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Stock **#22-235** **2 In Stock**

-

1

+

**\$3,689**<sup>00</sup>

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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 <a href="#">here</a> | Motor Installation Guide: |

Physical & Mechanical Properties

|                                 |                     |
|---------------------------------|---------------------|
| Linear (X)                      | Type of Movement:   |
| Recirculating Ball Linear Guide | Guide System:       |
| 1150 x 134                      | Stage Size (mm):    |
| 1000                            | Travel (mm):        |
| 925                             | Accuracy (µm):      |
| < 250                           | Backlash (µm):      |
| 76                              | Height (mm):        |
| 50                              | Load Capacity (kg): |
| < 20                            | Repeatability (µm): |
| 3000 (Maximum)                  | Speed (mm/s):       |
| 90                              | Thrust (N):         |
| 3.625                           | 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.<br>USA: <a href="#">#15-294</a><br>Europe: <a href="#">#15-294</a><br>Japan: <a href="#">#23-662</a><br>Korea: <a href="#">#33-773</a><br>China: <a href="#">#15-294</a> | Power Supply:       |
| USB with <a href="#">#15-295</a><br>RS-232 with <a href="#">#15-297</a>                                                                                                                                             | Computer Interface: |

Environmental & Durability Factors

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

Regulatory Compliance

|                           |                             |
|---------------------------|-----------------------------|
| <a href="#">Compliant</a> | RoHS 2015:                  |
| <a href="#">View</a>      | Certificate of Conformance: |
| <a href="#">Compliant</a> | 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.