1000mm Travel, Belt Driven Motorized Linear Stage

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Product Downloads

SPECIFICATIONS

General

Type:
Metric

Encoder:
Yes

Manual Control/ LED Indicators:
Yes

Manufacturer:
Zaber Technologies Inc.

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.

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):
1150 x 134

Travel (mm):
1000

Accuracy (µm):
925

Backlash (µm):
< 250

Height (mm):
76

Load Capacity (kg):
50

Repeatability (µm):
< 20

Speed (mm/s):
3000 (Maximum)

Thrust (N):
90

Weight (kg):
3.625

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 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.