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150mm Travel, High Precision Linear Motor Stage, Integrated Controller, Linear Encoder

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⊖ 1 ⊕ €8.160⁰⁰

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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.

Moving Magnet Track Linear Motor **Type of Motor:**

Linear Analog Encoder **Encoder Type:**

Physical & Mechanical Properties

Linear (X) **Type of Movement:**

Crossed-Roller Bearing **Guide System:**

230 x 90 **Stage Size (mm):**

150 **Travel (mm):**

1.5 **Accuracy (µm):**

31 **Height (mm):**

10 **Load Capacity (kg):**

<0.2 **Repeatability (µm):**

0.00061 - 800 **Speed (mm/s):**

1.81 **Weight (kg):**

Electrical

3000 **Maximum Operating Current (mA):**

Hardware & Interface Connectivity

Moving Magnet Track Linear Motor **Type of Drive:**

Power Supply:
Power Supply Required and Sold Separately.
USA: [#70-960](#)
Europe: [#70-960](#)
Japan: [#23-662](#)
Korea: [#33-773](#) + [#15-304](#)
China: [#70-960](#)

RS-232 **Computer Interface:**

Environmental & Durability Factors

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

Regulatory Compliance

[Compliant](#) **RoHS 2015:**

[View](#) **Certificate of Conformance:**

[Compliant](#) **Reach 247:**

Product Details

- 25, 75, 150mm Travel Options
- Up to 800mm/s Speed
- High Repeatability and Accuracy

Zaber™ High Precision Linear Motorized Stages are computer-controlled linear stages that utilize a moving magnet track linear motor and centrally located encoder to accurately and precisely position optical components or subsystems. These stages can connect directly to a computer's USB or RS-232 port and are compatible with [Zaber Launcher](#) and [Zaber's Motion Library](#) for quick set up and intuitive automation and control. The linear analog encoder has 1nm count size ensuring 1.5µm positional accuracy, 200µm repeatability, and consistent minimal incremental movement steps down to 20nm. Zaber™ High Precision Linear Motorized Stages are driven by non-cogging ironless linear motors which allow for speeds up to 800 mm/s with a minimum speed and speed resolution of 0.61mm/s. These stages are designed with metric tapped holes for mounting and an indexed knob and push switch for manual control when needed.

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