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

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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.

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 ( $\mu\text{m}$ ):**

31 **Height (mm):**

10 **Load Capacity (kg):**

<0.2 **Repeatability ( $\mu\text{m}$ ):**

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 ( $^{\circ}\text{C}$ ):**

## 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 1.5 $\mu\text{m}$  positional accuracy, 200 $\mu\text{m}$  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.