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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.

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

**Encoder Type:**  
Linear Analog Encoder

## Physical & Mechanical Properties

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

**Guide System:**  
Crossed-Roller Bearing

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

**Travel (mm):**  
150

**Accuracy (µm):**  
1.5

**Height (mm):**  
31

**Load Capacity (kg):**  
10

**Repeatability (µm):**  
<0.2

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

**Weight (kg):**  
1.81

## Electrical

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

## Hardware & Interface Connectivity

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

**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](#)

**Computer Interface:**  
RS-232

## Environmental & Durability Factors

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

## Regulatory Compliance

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

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

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

## 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:** A48 VDC universal power supply, data cables for daisy chaining, and computer interface cables (USB or RS-232) are sold separately as accessories.