

210mm Travel, Ultra Precision Linear Motor Stage, Integrated Controller, Linear Encoder

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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.

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):

345 x 151.5

Travel (mm):

210

Accuracy (µm):

1

Height (mm):

44

Load Capacity (kg):

12

Repeatability (µm):

<0.08

Speed (mm/s):

0.00061 - 1200

Weight (kg):

3.76

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](#)

China: [#70-960](#)

Computer Interface:

RS-232

Environmental & Durability Factors**Operating Temperature (°C):**

10 - 40

Regulatory Compliance**RoHS 2015:**

[Compliant](#)

Certificate of Conformance:

[View](#)

Reach 247:

[Compliant](#)

Product Details

- 60, 110, 210mm Travel Options
- Up to 1200mm/s Speed
- Ultra-High Repeatability and Accuracy

Zaber™ Ultra 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 1µm positional accuracy, < 0.08µm repeatability, and consistent minimal incremental movement steps down to 20nm. Zaber™ Ultra High Precision Linear Motorized Stages are driven by non-cogging ironless linear motors which allow for speeds up to 1200mm/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.