

# 250mm x 100mm Travel, Linear Motor XY Microscope Stage, Integrated Controller, Linear Encoder

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⊖ 1 ⊕ €12.920<sup>00</sup>

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## Product Downloads

### General

Metric	<b>Type:</b>
Yes	<b>Encoder:</b>
Zaber Technologies Inc.	<b>Manufacturer:</b>
Moving Magnet Track Linear Mbtor	<b>Type of Motor:</b>
Linear Analog Encoder	<b>Encoder Type:</b>

### Physical & Mechanical Properties

Linear (X-Y)	<b>Type of Movement:</b>
Crossed Roller Bearing	<b>Guide System:</b>
280.5 x 501.9	<b>Stage Size (mm):</b>
250 in X 100 in Y	<b>Travel (mm):</b>
5 (Unidirectional)	<b>Accuracy (µm):</b>
	<b>Backlash (µm):</b>

0

40.6 **Height (mm):**

3.04, Centered Load **Load Capacity (kg):**

<0.5 **Repeatability (µm):**

0.00000061 to 750 **Speed (mm/s):**

35 **Thrust (N):**

6.2 **Weight (kg):**

1nm **Encoder Resolution:**

## Optical Properties

0.001 **Resolution (µm):**

## Electrical

2300 **Maximum Operating Current (mA):**

## Hardware & Interface Connectivity

Direct Drive Linear Motor **Type of Drive:**

**Power Supply:**  
Power Supply Required and Sold Separately.  
USA: [#15-294](#)  
Europe: [#15-294](#)  
Japan: [#23-662](#)  
Korea: [#33-773](#)  
China: [#15-294](#)

RS-232 **Computer Interface:**

## Environmental & Durability Factors

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

## Regulatory Compliance

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

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

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

## Product Details

- Ultra-Quiet Linear Motors
- 130 x 100mm or 250 x 100mm Travel Options Available
- 1nm Resolution Linear Encoders provide Excellent Accuracy, Repeatability, and Speed
- Compatible with [µManager](#) Open-Source Microscopy Software

Zaber™ Linear Motor XY Microscope Motorized Stages feature ultra-quiet non-contact linear motors and optical linear encoders that are ideal for microscopy applications where speed, accuracy and reliability are of utmost importance. These stages have compact controllers built directly into the stage that allow both axes to be powered and independently controlled through a single cable. Adapter plates are available for mounting the stage to breadboards ([#70-662](#)), and for direct integration into Nikon ([#70-663](#)), and Olympus ([#70-664](#)) microscope systems. Zaber™ Linear Motor XY Microscope Motorized Stages are designed with 1nm Resolution Linear Encoders which provides 5µm Travel Accuracy, <0.5µm Repeatability, 50nm Incremental Movement, and speeds up to 750mm/s. These stages are fully supported by [µManager](#) Open-Source Microscopy Software as well as [Zaber Launcher](#) and [Zaber's Motion Library](#).

**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.