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# 100mm Travel, High Vacuum ( $10^{-6}$ Torr) Motorized Linear Stage, Integrated Controller

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## Product Downloads

### General

Metric **Type:**

No **Encoder:**

No/Yes **Manual Control/ LED Indicators:**

Zaber Technologies Inc. **Manufacturer:**

X-LSM100A-SV2T9 **Model Number:**

Requires Accessory Kit, #75-301, for operation. **Note:**

2-Phase Stepper **Type of Motor:**

## Physical & Mechanical Properties

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

Needle Roller Bearing **Guide System:**

224.2 x 152.0 **Stage Size (mm):**

101.6 **Travel (mm):**

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

<12 **Backlash ( $\mu\text{m}$ ):**

21.4 **Height (mm):**

10 **Load Capacity (kg):**

100 **Load Capacity (N):**

<3 **Repeatability ( $\mu\text{m}$ ):**

0.000029 - 24 **Speed (mm/s):**

35 **Thrust (N):**

0.43 **Weight (kg):**

## Optical Properties

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

## Electrical

350 **Current (mA):**

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

## Hardware & Interface Connectivity

Lead Screw **Type of Drive:**

24-48 VDC; Power Supply w/US Plug found in accessories kit, [#75-301](#) **Power Supply:**

RS-232, USB **Computer Interface:**

## Material Properties

High vacuum ( $10^{-6}$  Torr) **Vacuum Compatibility:**

## Environmental & Durability Factors

0 to +50 **Operating Temperature ( $^{\circ}\text{C}$ ):**

## Regulatory Compliance

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

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

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

## Product Details

- Low Vacuum ( $10^{-3}$  Torr) and High Vacuum ( $10^{-6}$  Torr) Options Available
- 360° Rotational, Linear, or Vertical Travel Stages, and Goniometer Options Available
- Controlled via Minimal Feed-Through Wires

Zaber™ Vacuum Compatible Motorized Stages are designed for integration into vacuum systems and are available in high vacuum  $10^{-6}$  Torr stages or low vacuum  $10^{-3}$  Torr configurations (upon request). The stage body components are specifically engineered to limit outgassing of contaminants in the vacuum chamber, the included stepper motors are designed for thermal management in high vacuum environments, and the stages can be connected to a computer interface with minimal feed-through wires. Zaber™ Vacuum Compatible Motorized Stages are available in linear, 360° rotational, and goniometric configurations, allowing for a complete 6 Degree-of-Freedom system to be constructed in a vacuum. These stages are ideal for applications operating in high vacuum conditions, such as semiconductor manufacturing and processing, or optical coating processes.

**Note:** An accessories kit, [#75-301](#), is required and sold separately.

