

20mm Travel, High Vacuum (10⁻⁶ Torr) Motorized Vertical Translation Stage, Integrated Controller

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1

+

€6.125⁰⁰

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Product Downloads

SPECIFICATIONS

General

Metric	Type:
	Encoder:
No	
No	Manual Control/ LED Indicators:
Zaber Technologies Inc.	Manufacturer:
X-VSR20A-SV2T9	Model Number:
Note: Requires Accessory Kit, #75-301 , for operation.	
2-Phase Stepper	Type of Motor:

Physical & Mechanical Properties

Linear (Z)	Type of Movement:
Ball Bearing	Guide System:
73.0 x91.5	Stage Size (mm):
20	Travel (mm):
50	Accuracy (µm):
<35	Backlash (µm):
75.0	Height (mm):
10	Load Capacity (kg):
100	Load Capacity (N):
<1	Repeatability (µm):
0.000058 - 28	Speed (mm/s):
200	Thrust (N):
0.56	Weight (kg):

Optical Properties

0.952	Resolution (µm):

Electrical

950	Current (mA):
950	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 (°C):

Regulatory Compliance

Compliant	RoHS 2015:
View	Certificate of Conformance:

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.