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20mm Travel, High Vacuum (10^{-6} Torr) Motorized Vertical Translation Stage, Integrated Controller

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⊖ 1 ⊕ €6.250⁰⁰

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Volume Pricing

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General

Metric **Type:**

No **Encoder:**

Manual Control/ LED Indicators:

No

Manufacturer:
Zaber Technologies Inc.

Model Number:
X-VSR20A-SV2T9

Note:
Requires Accessory Kit, [#75-301](#), for operation.

Type of Motor:
2-Phase Stepper

Physical & Mechanical Properties

Type of Movement:
Linear (Z)

Guide System:
Ball Bearing

Stage Size (mm):
73.0 x 91.5

Travel (mm):
20

Accuracy (µm):
50

Backlash (µm):
<35

Height (mm):
75.0

Load Capacity (kg):
10

Load Capacity (N):
100

Repeatability (µm):
<1

Speed (mm/s):
0.000058 - 28

Thrust (N):
200

Weight (kg):
0.56

Optical Properties

Resolution (µm):
0.952

Electrical

Current (mA):
950

Maximum Operating Current (mA):
950

Hardware & Interface Connectivity

Type of Drive:
Lead Screw

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

Computer Interface:
RS-232, USB

Material Properties

Vacuum Compatibility:
High vacuum (10⁻⁶ Torr)

Environmental & Durability Factors

Operating Temperature (°C):
0 to +50

Regulatory Compliance

RoHS 2015:
[Compliant](#)

Certificate of Conformance:
[View](#)

Reach 247:
[Compliant](#)

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.
