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# 40mm Center of Rotation, Low Vacuum ( $10^{-3}$ Torr) Motorized Goniometer Stage, Integrated Controller

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**General**

Metric Type:

No Encoder:

No Manual Control/ LED Indicators:

Manufacturer:

X-GSM40-SV1T9 **Model Number:**

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

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

## Physical & Mechanical Properties

Goniometer **Type of Movement:**

Crossed Roller Bearing **Guide System:**

72.7 x 116.3 **Stage Size (mm):**

±10 **Travel (°):**

0.06 **Accuracy (°):**

<0.01 **Backlash (°):**

20.8 **Height (mm):**

3 **Load Capacity (kg):**

30 **Load Capacity (N):**

40 **Radius R (mm):**

<0.005 **Repeatability (°):**

<0.087 **Resolution (µrad):**

0.000099 - 30 **Speed (°/s):**

0.32 **Weight (kg):**

## Electrical

350 **Current (mA):**

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

## Hardware & Interface Connectivity

Precision Worm Gear **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

Low vacuum ( $10^{-3}$  Torr) **Vacuum Compatibility:**

## Environmental & Durability Factors

0 to +50 **Operating Temperature (°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,  $360^\circ$  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.

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