

60mm Travel, High Vacuum (10^{-6} Torr) Motorized Rotary Stage, Integrated Controller

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⊖ 1 ⊕ A\$9,376⁰⁰

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General

Metric **Type:**

No **Encoder:**

No **Manual Control/ LED Indicators:**

Zaber Technologies Inc. **Manufacturer:**

X-RSW60A-SV2T9 **Model Number:**

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

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

Physical & Mechanical Properties

Type of Movement:

Rotary	
131.5 x 73.2	Stage Size (mm):
360	Travel (°):
0.14	Accuracy (°):
<0.04	Backlash (°):
31.7	Height (mm):
20	Load Capacity (kg):
200	Load Capacity (N):
<0.02	Repeatability (°):
<0.349	Resolution (µrad):
0.000143 - 100	Speed (°/s):
0.72	Weight (kg):
60	Table Diameter (mm):
100	Max. Continuous Torque (N·cm):

Electrical

950	Current (mA):
950	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

High vacuum (10 ⁻⁶ Torr)	Vacuum Compatibility:
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Environmental & Durability Factors

0 to +50	Operating Temperature (°C):
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Regulatory Compliance

Compliant	RoHS 2015:
View	Certificate of Conformance:
Compliant	Reach 247:

Product Details

- High Resolution with 360° Continuous Rotation
- Integrated Motor and Controller
- Vacuum-Compatible Options
- Controlled Manually or via RS-232 Serial Interface
- Power Supply and Data Cable Sold as Separate Accessories
- Available with Integrated, 200 Counts per Revolution (CPR) Motor Mounted Encoder

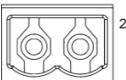
Zaber™ Motorized Rotary Stage Systems are designed to hold 1" or 25mm optical components on both the top and bottom plates, and provide precise, 360° rotation. The compact bearing design can handle up to 45 lb (20kg) loads while providing 4.1µrad resolution rotational movement. Encoder versions are available for all travel lengths, with 200 Counts per Revolution (CPR) rotary quadrature encoders integrated into the stepper motor. Zaber™ Motorized Rotary Stage Systems also includes a potentiometer located on the back of the stage to provide a convenient way to manually control position.

Note: A 24-48 VDC universal power supply, data cables for daisy chaining, and computer interface cables (USB or RS-232) are sold separately as accessories. These stages utilize the same accessories as the [Zaber™ High Precision Motorized Stage System](#).

Technical Information

Device Overview / Connectors

Images are shown looking into the device.

Power		Pin	Description
1		1	24 - 48 V
2		GND (Note: power supplies ground this pin to AC Earth)	

Note: To prevent damage to the device due to static buildup, the device should be properly grounded. The power supplies for X-Series devices are non-isolated and thus ground the device chassis to Earth via the negative terminal of the power supply. If for any reason you are using an isolated power supply, please ensure your device is grounded by connecting the negative terminal of the power connector to AC Earth.

