

# 40mm Square Motorized Rotary Stage, Integrated Controller, Rotary Encoder

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60mm Motorized Rotary Stage, #15-291

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**General**

Metric **Type:**

Yes **Encoder:**

Yes **Manual Control/ LED Indicators:**

Zaber Technologies Inc. **Manufacturer:**

**Model Number:**

X-RSM40B-E03

**Note:**

Requires a 24-48 VDC power supply and either #15-295 for USB connectivity or #15-297 for RS-232 connectivity. A data cable (#15-296 or #15-299) can be used to daisy chain multiple stages together to control simultaneously.

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

Rotary Quadrature Encoder **Encoder Type:**

## Physical & Mechanical Properties

Rotary **Type of Movement:**

40 x 40 **Stage Size (mm):**

360 **Travel (°):**

0.14 Unidirectional **Accuracy (°):**

< 0.04 **Backlash (°):**

4.0mm **Center Hole:**

21 **Height (mm):**

5 **Load Capacity (kg):**

50 **Load Capacity (N):**

< 0.02 **Repeatability (°):**

4.992 **Repeatability (mrad):**

120 **Speed (°/s):**

289 **Weight (kg):**

200 CPR **Encoder Resolution:**

60 **Max. Continuous Torque (N⋅cm):**

## Electrical

350 **Current (mA):**

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

## Hardware & Interface Connectivity

Precision Worm Gear **Type of Drive:**

Not included, see the Accessories tab for recommended 24 to 48V Power Supply & Tech Info tab for connector information. **Power Supply:**

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

## Environmental & Durability Factors

0 to +50 **Operating Temperature (°C):**

## Regulatory Compliance

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

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

## 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 with circular or square bases, providing precise 360° rotation. The version with the circular base can hold a 1" or 25mm optic on both the top and bottom faces. 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:** A24-48 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   | 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.

