

## 60mm Motorized Rotary Stage, Integrated Controller, Rotary Encoder

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60mm Motorized Rotary Stage, #15-291

Stock **#25-043** **2 In Stock**

⊖ 1 ⊕ £2,408<sup>00</sup>

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### Volume Pricing

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ⓘ Prices shown are exclusive of VAT/local taxes

### Product Downloads

### General

Universal (Metric & English)

Type:

Yes

Encoder:

Zaber X-RSW60A-E03

Model Number:

**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.

Encoder Type:  
Rotary Quadrature Encoder

## Physical & Mechanical Properties

Type of Movement:  
Rotary

Stage Size (mm):  
82.6 x 144.8

Travel (°):  
360

Accuracy (°):  
0.08, Unidirectional

Backlash (°):  
<0.04

Center Hole:  
23mm Clear Aperture to hold a 25mm (1") Dia. Optic (up to 3mm Thick)

Load Capacity (kg):  
20

Load Capacity (N):  
200

Repeatability (°):  
<0.02

Resolution (µrad):  
4.1

Speed (°/s):  
0.0001 to 115

Weight (kg):  
0.66

Table Diameter (mm):  
60

Encoder Resolution:  
200 CPR

Max. Continuous Torque (N·cm):  
225

## Electrical

Maximum Operating Current (mA):  
950

## Hardware & Interface Connectivity

Type of Drive:  
Stepping Motor

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

Computer Interface:  
USB with [#15-295](#) RS-232 with [#15-297](#)

## Environmental & Durability Factors

Operating Temperature (°C):  
0 - 50

## Regulatory Compliance

RoHS 2015:  
[Compliant](#)

Certificate of Conformance:  
[View](#)

Reach 247:  
[Compliant](#)

## 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:** 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](#)

## 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.

