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40mm Center of Rotation, Motorized Goniometer Stage, Integrated Controller with Encoder

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Note: This item requires accessories for use | [Learn More](#)

Product Downloads

General

Metric **Type:**

Yes **Encoder:**

Yes **Manual Control:**

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

Goniometer **Type of Movement:**

Crossed Roller Bearing **Guide System:**

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

±10 **Travel (°):**

0.06, Unidirectional **Accuracy (°):**

< 0.01 **Backlash (°):**

20.8 **Height (mm):**

3 **Load Capacity (kg):**

30 (Centered Load) **Load Capacity (N):**

40 **Radius R (mm):**

< 0.005 **Repeatability (°):**

2.837 **Resolution (µrad):**

Max: 30 **Speed (°/s):**

0.285 **Weight (kg):**

200 CPR **Encoder Resolution:**

Electrical

350 **Current (mA):**

Hardware & Interface Connectivity

Precision Worm Gear **Type of Drive:**

Power Supply Required and Sold Separately:
USA: [#15-294](#)
Europe: [#15-294](#)
Japan: [#23-662](#)
Korea: [#33-773](#)
China: [#15-294](#)

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

Environmental & Durability Factors

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

Regulatory Compliance

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

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

[Compliant](#) **Reach 247:**

Product Details

- 40mm and 60mm Center of Rotation Options
- Vacuum-Compatible Options
- Small Footprint with a Low Profile for Compact Systems
- 30N (~3kg) Centered Load Capacity

- Available with Integrated, 200 Counts per Revolution (CPR) Motor Mounted Encoder

Zaber™ Motorized Goniometers provide electronically controlled, precise angular adjustment of an object about a fixed point located above the center of the mounting surface. Featuring a built-in controller, these goniometers can be controlled manually with an indexed control knob or computer controlled via RS-232 communication or via USB with the included software. Encoder version are available for all travel options, with 200 Counts per Revolution (CPR) rotary quadrature encoders integrated into the stepper motor. Zaber™ Motorized Goniometers are ideal for providing tip and tilt adjustment for optical components in laser alignment and beam steering applications. These goniometers feature an interlocking alignment system to ensure a common center of rotation when the 40mm and 60mm options are stacked, and can be daisy-chained with additional stages using only one power supply for ease of system integration.

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.
