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# High Load Capacity Motorized Gimbal, 500mm Payload Width

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Zaber™ High Load Capacity Motorized Gimbal, 500mm

Stock #70-572 [CONTACT US](#)

⊖ 1 ⊕ A\$31,936<sup>00</sup>

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Qty 1+	A\$31,936.00 each
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### General

English or Metric **Type:**

Yes **Encoder:**

Zaber Technologies Inc. **Manufacturer:**

Stepper Motor	<b>Type of Motor:</b>
Rotary Quadrature Encoder	<b>Encoder Type:</b>
<b>Physical &amp; Mechanical Properties</b>	
Rotary	<b>Type of Movement:</b>
652.1 x 497.5 x 210.1	<b>Stage Size (mm):</b>
360	<b>Travel (°):</b>
0.16 (unidirectional)	<b>Accuracy (°):</b>
<0.05	<b>Backlash (°):</b>
180:1	<b>Gear Drive Ratio:</b>
<0.005	<b>Repeatability (°):</b>
24	<b>Speed (°/s):</b>
13.8	<b>Weight (kg):</b>
200 CPR	<b>Encoder Resolution:</b>
20	<b>Cantilevered Load Capacity (N·m):</b>
1000	<b>Max. Continuous Torque (N·cm):</b>
50.8	<b>Aperture Diameter (mm):</b>
<b>Electrical</b>	
2200	<b>Maximum Operating Current (mA):</b>
<b>Hardware &amp; Interface Connectivity</b>	
Precision Worm Gear	<b>Type of Drive:</b>
48 VDC	<b>Power Supply:</b>
RS-232	<b>Computer Interface:</b>
<b>Environmental &amp; Durability Factors</b>	
0-50	<b>Operating Temperature (°C):</b>
<b>Regulatory Compliance</b>	
<a href="#">Compliant</a>	<b>RoHS 2015:</b>
<a href="#">View</a>	<b>Certificate of Conformance:</b>
<a href="#">Compliant</a>	<b>Reach 247:</b>

## Product Details

- 360° Continuous Travel
- Speed up to 24°/s, Max Torque of 10N-m
- Max Centered Payload of 15kg; Max Cantilevered Load Capacity of 20N-m
- 300 and 500mm Payload Width Frame Options Available

Zaber™ High Load Capacity Motorized Gimbals are large, motorized two-axis rotation platforms that simplify the angular positioning of large components or subsystems within an optical system. All gimbals feature 360° continuous travel, two axis rotation around a single point, speed up to 24°/s, a Cantilevered Load Capacity of 20N-m, a rotary quadrature encoder resolution of 200 counts per revolution (CPR), and are available for payload widths of either 300 or 500mm. Drilled and tapped crossmember plates, used to create a mounting platform within the gimbal, are available with either English ([#71-113](#) or [#71-115](#)) or Metric ([#71-112](#) or [#71-114](#)) mounting options, and can also be used to quickly swap different components or pre-built subsystems into the gimbal. Zaber™ High Load Capacity Motorized Gimbals feature built-in controllers and motors allowing for closed-loop operation, slip/stall recovery, and independent axis control via a single RS-232 or USB connection for plug-and-play functionality and easy system integration. These gimbals are ideal for telecom, scanning, and tracking applications where high-load capacity and high-precision angular positioning is required.

**Note:** A [48 VDC universal power supply](#), [data cables](#) for daisy chaining, and computer interface cables ([USB](#) or [RS-232](#)) are sold separately as accessories. All Zaber™ High Load Capacity Motorized Gimbals are compatible with [Zaber Launcher](#) and [Zaber's Motion Library](#).