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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 ⊕ **SS\$27,944.00**

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General

English or Metric **Type:**

Yes **Encoder:**

Zaber Technologies Inc. **Manufacturer:**

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

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](#).