

Precision Gonio Stage | PG-25

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The PG-25 gonio stage is the most compact motorized gonio stage available. These stages may be mounted in an orthogonal, space-saving arrangement to achieve pitch and roll adjustment. Operation in vacuum (10^{-6} mbar) and non-magnetic versions are available. The PG-25 is compatible with the MMC-100 and MMC-110 controllers.

KEY FEATURES

- Smooth, continuous $\pm 5^\circ$ motion
- 41 μ° closed loop encoder resolution
- Load capacity up to 0.05 kg
- Low profile, 14 mm height
- Vacuum and non-magnetic versions available

TECHNICAL DATA

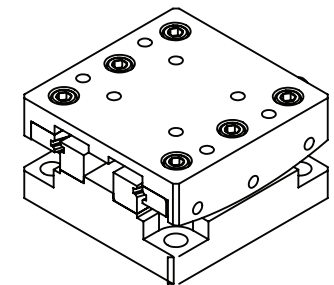
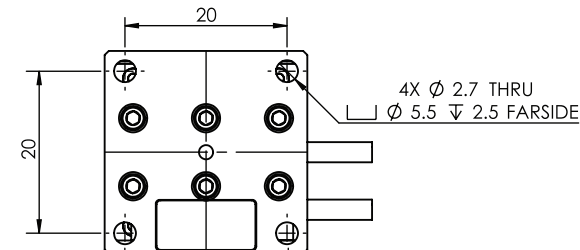
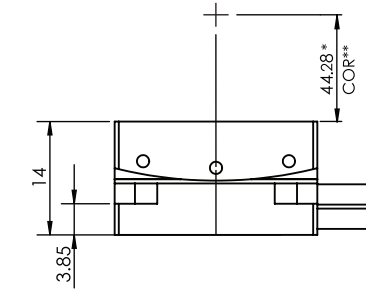
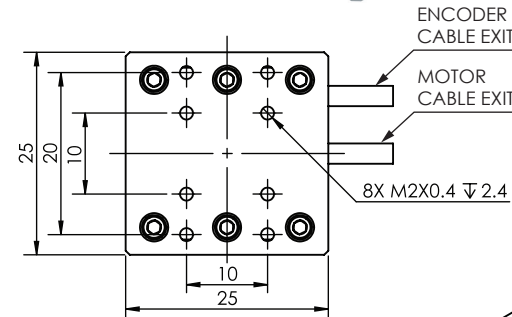
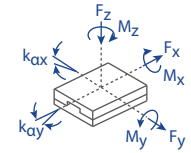
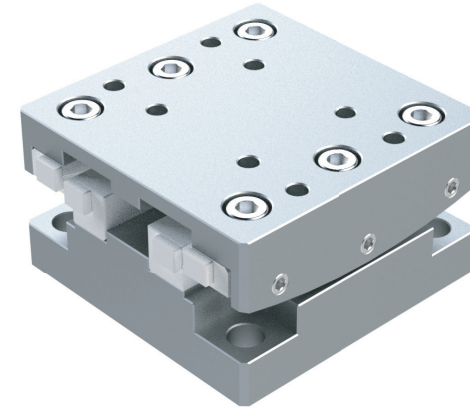
Travel range about center of rotation [°]	± 5	
Rotational Center Accuracy [mm]	< 0.1	
Weight [g], Open Loop	25	
Weight [g], Closed Loop	30	
Motor option	Piezo Motor	
Speed, max [°/s]	1	
Encoder option	None (open loop)	Digital (RS-422)
Resolution, typical [μ°]	10	41
Repeatability, bi-directional [μ°]	N/A	± 500
Repeatability, uni-directional [μ°]	N/A	500
Materials	aluminum body, ceramic bearing (other materials i.e. stainless steel, titanium, etc. available upon request)	

ORDERING INFORMATION

PG-25- 1 1 0

DRIVE	Piezo Motor, PM-006R	1
TRAVEL	$\pm 5^\circ$	1
ENCODER	None	0
	Digital (RS-422)	3
LIMIT SWITCH	None	0
ENVIRONMENT	Atmospheric	0
	High Vacuum, 10^{-6} mbar	6
	Non-Magnetic	M

Load, max	F_x [N]	F_y [N]	F_z [N]	M_x [N-m]	M_y [N-m]	M_z [N-m]	k_{ax} [μ rad/N-m]	k_{ay} [μ rad/N-m]
PM-006R	0.5	0.5	0.5	0.1	0.01	0.1	-	-



* all dimensions are in millimeters

** Additional center of rotations are available

Specifications are subject to change without notice.