

Precision Gonio Stage | PG-50PM

NEW

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The PG-50 gonio stage performs best in limited space applications due to its compact design. High stiffness motion is achieved through pre-loaded crossed-roller bearings. These stages may be mounted in an orthogonal, space-saving arrangement to achieve pitch and roll adjustment. Versions capable of operation in vacuum (10^{-9}) are available. The PG-50 is compatible with the MMC-103 and MMC-110 controller.

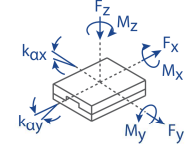
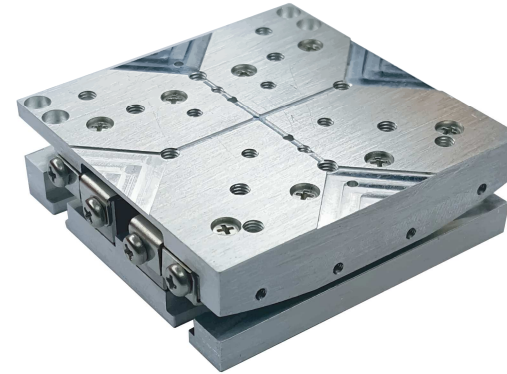
KEY FEATURES

- Smooth, continuous $\pm 5^\circ$ motion
- Load capacity up to 2 kg
- Steel crossed roller bearings
- Low profile, 16 mm height
- Vacuum versions available

TECHNICAL DATA

Travel range about center of rotation [°]	± 5		
Rotational Center Accuracy [mm]	< 0.1		
Wobble (Bearings) [μrad]	± 120		
Weight [g]	70		
Motor option	Piezo Motor		
Speed, max [°/s]	3		
Encoder option	None (open loop)	Analog (1 Vpp)	Digital (RS-422)
Resolution, typical [μ°]	1	50(MMC-103),10(MMC-110)	10
Repeatability, bi-directional [μ°]	N/A	± 200	± 200
Repeatability, uni-directional [μ°]	N/A	200	200
Accuracy [°]	-	-	-
Materials	aluminum body, steel bearing (other materials i.e. stainless steel, titanium, etc. available upon request)		

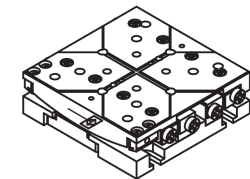
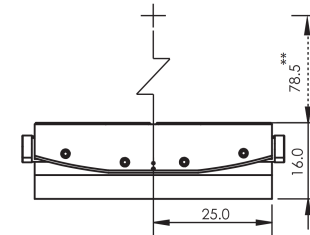
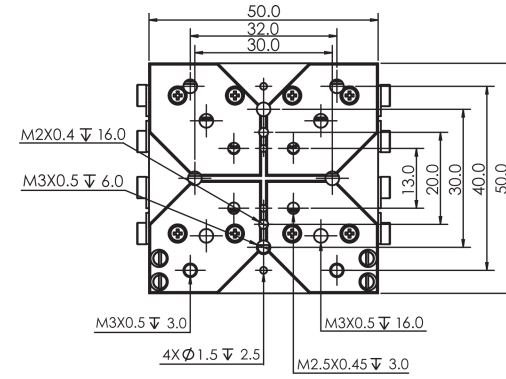
Load, max	F_x [N]	F_y [N]	F_z [N]	M_x [N-m]	M_y [N-m]	M_z [N-m]	k_{ax} [μrad/N-m]	k_{ay} [μrad/N-m]
PM-004R	5	5	20	0.75	0.3	4	80	80



ORDERING INFORMATION

PG-50- 1 1

DRIVE	Piezo Motor, PM-003R2.....	1
TRAVEL	± 5°	1
ENCODER	None	0
	Analog (1 Vpp).....	2
	Digital (RS-422)	3
LIMIT SWITCH	None	0
	Magnetic	1
ENVIRONMENT	Atmospheric	0
	High Vacuum, 10 ⁻⁶ mbar	6
	Ultra High Vacuum, 10 ⁻⁹ mbar	9



* all dimensions are in millimeters

** Other center radii available

