The PG-50 gonio stage performs best in limited space applications due to its compact
design. High stiffness motion is achieved through pre-loaded cross-roller bearings
and a precision worm drive. These stages may be mounted in an orthogonal,
space-saving arrangement to achieve pitch and roll adjustment. Versions capable of
operation in vacuum (10-6 mbar) are available. The PG-50SM is compatible with the
MMC-200 controller.

KEY FEATURES

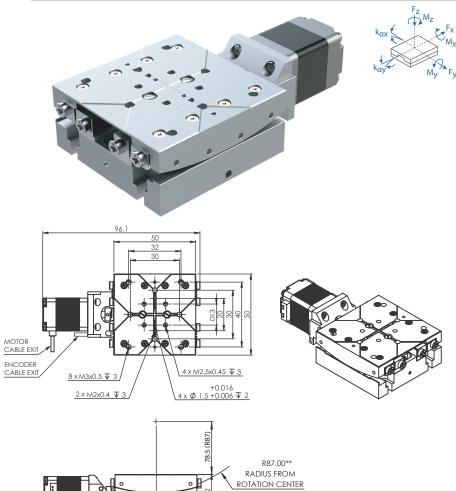
- Smooth, continuous ± 5° motion
- 0.001° encoder resolution
- Load capacity up to 2 kg
- Crossed roller bearings
- Low profile, 22mm height
- Vacuum versions available
- Other center of rotations are available on request (70 mm and 103 mm)

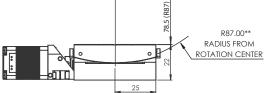
TECHNICAL DATA

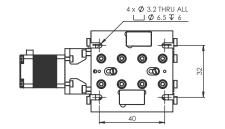
Travel range about center of rotation [°]	± 5				
Rotational Center Accuracy [mm]	< 0.1				
Wobble (Bearings) [μrad]	± 120				
Weight [g], Open Loop	225				
Weight [g], Closed Loop	235				
Motor option	Stepper Motor (2 phase)				
Speed, max [°/s]	5				
Encoder option	None (open loop)	Analog (1 Vpp)	Digital (RS-422)		
Resolution, typical [m°]	1	1	1		
Repeatability, bi-directional [m°]	± 10	± 2	± 2		
Repeatability, uni-directional[mº]	10	2	2		
Materials	aluminum body, steel bearing (other materials i.e. stainless steel, titanium, etc. available upon request				

ORDERING INFORMA	TION PG-50-	2	1	1	
DRIVE	Stepper Motor, SM-001	2			
TRAVEL	± 5°	1			
ENCODER	None Analog (1 Vpp) Digital (RS-422)	2			
LIMIT SWITCH	Magnetic	1			
ENVIRONMENT	AtmosphericHigh Vacuum. 10 ⁻⁶ mbar				

Load, max	F _X [N]	F _y [N]	F _Z [N]	M _X [N·m]	M _y [N·m]	M _Z [N·m]	k _{αχ} [μrad/N·m]	k _{αy} [μrad/N·m]
SM-001	15	15	20	0.75	4	4	80	80







- * all dimensions are in millimeters
- ** Additional center of rotations are available

