The PR-50 rotary stage excels where fast rotation speeds are needed with limited torque requirements. The stage utilizes a direct drive stepper motor combined with dual mutually pre-loaded ball bearings, which allow for smooth, 360° travel. Vacuum versions are available. The PR-50 is compatible with the MMC-200.

KEY FEATURES

- Continuous 360° motion
- Load capacity up to 1 kg
- Mutually pre-loaded ball bearings
- Low profile, 34 mm height
- Vacuum versions available

TECHNICAL DATA

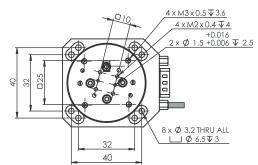
Travel range [°]	360°, limitless					
Flatness (bearings) [μm]	±3					
Eccentricity (bearings) [μm]	±3					
Wobble [µrad]	± 50					
Weight [g], Closed Loop	240					
Weight [g], Open Loop	260					
Motor option	Direct Drive Stepper Motor					
Speed, max [°/s]	1800 (5 rev/sec)					
Encoder option	None (open loop)	Analog (1 V _{pp})	Digital (RS-422)			
Resolution, typical [mº]	10	5	5			
Repeatability, bi-directional [mº]	± 50	± 10	± 10			
Repeatability, uni-directional [mº]	50	10	10			
Materials	aluminum body, steel bearing (other materials i.e. stainless steel, titanium, etc. available upon request)					

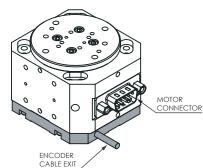
ORDERING INFORMA	TION PR-50- 2 1
DRIVE	Stepper Motor, SM-006 2
TRAVEL	360° 1
ENCODER	None
HOME S WIT CH	None 0 —
ENVIRONMENT	Atmospheric

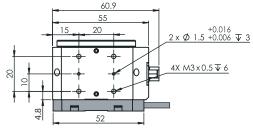
Load, max	F _r [N]	F _Z [N]	M _r [N·m]	M _Z [N·m]	k _{αr} [μrad/N·m]
SM-006	1	10	5	0.04	150

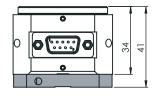


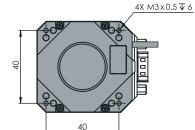












* grey parts for closed loop version only * all dimensions are in millimeters



†only available in open loop