

Precision Rotation Stage | PR-70TM

The PR-70TM is a compact rotation stage with unlimited travel and a 1 inch aperture. Steel crossed roller bearings ensure smooth motion and high stability. The PR-70TM can be combined with the linear PPX-50 or PPS-70 (51mm travel and up) stages without an adapter bracket. Versions capable of operation in vacuum (10^{-6} mbar) are available. The PR-70TM is compatible with the NanoDrive controller.

KEY FEATURES

- Continuous 360° motion
- 5 μ closed loop digital encoder resolution
- Load capacity up to 3 kg
- 1" aperture
- Crossed roller bearing
- 28.2mm height
- Vacuum versions available

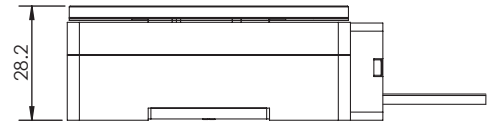
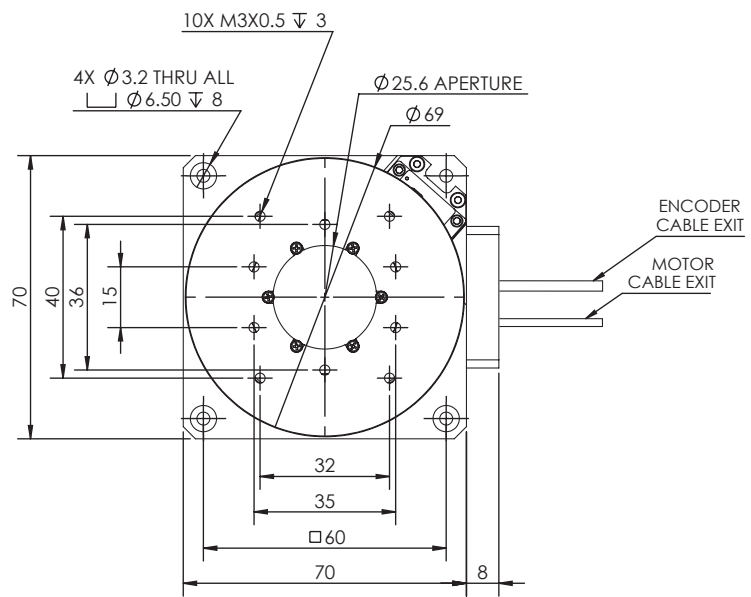
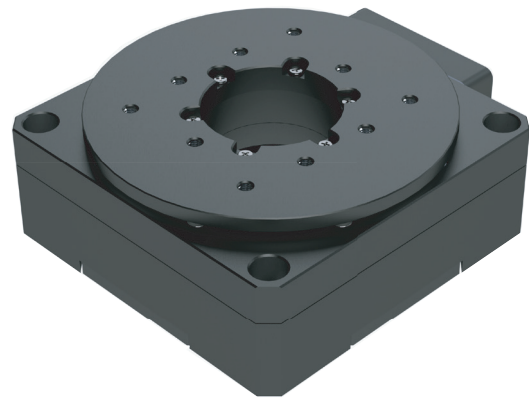
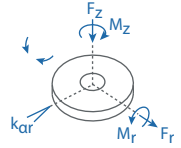
TECHNICAL DATA

Travel range [°]	360°, limitless	
Flatness (bearings) [μ m]	± 10	
Eccentricity (bearings) [μ m]	± 10	
Wobble [μ rad]	± 300	
Weight [g]		
Motor option	Torque Motor	
Speed, max [°/s]	720	
Encoder option	Digital (RS-422)	Absolute (BiSS C)
Resolution, typical [μ °]	5	<50
Repeatability, bi-directional [μ °]	± 200	± 500
Repeatability, uni-directional [μ °]	200	500
Materials	aluminum body, steel bearing (other materials i.e. stainless steel, titanium, etc. available upon request)	

ORDERING INFORMATION

	PR-70-	3	1		0	
DRIVE	Torque Motor.....	3				
TRAVEL	360°	1				
ENCODER	Digital (RS-422)	3				
	Absolute (BiSS C)	5				
HOME SWITCH	None	0				
ENVIRONMENT	Atmospheric	0				
	High Vacuum, 10^{-6} mbar	6				

Load, max	F_r [N]	F_z [N]	M_r [N-m]	M_z [N-m]	k_{ar} [μ rad/N-m]
SM-006	20	30	5	TBD	150



* all dimensions are in millimeters

Specifications are subject to change without notice.