## Piezo Rotation Stage | PR-20



The PR-20 is an ultra-compact rotational piezo stage. Low profile, high load and high stiffness are achieved through the use of a crossed roller bearing and patented multi-phase piezo motor, which allows for smooth 360° travel. The PR-20 can be fully integrated with high resolution absolute encoder. Vacuum versions are available. The PR-20 is compatible with MMC-100\* and MMC-110\*\* controllers.

## KEY FEATURES

- Closed loop absolute encoder resolution to <1 m°
- Crossed roller bearings
- Continuous 360° motion
- Load capacity up to 0.1 kg
- Low profile, 14.5 mm height
- Vacuum version available

## TECHNICAL DATA

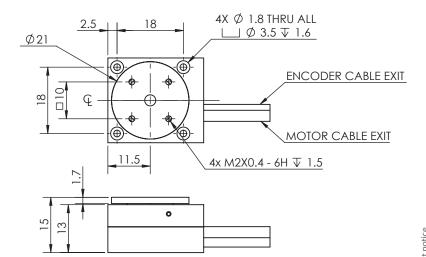
Travel range [°]	360°, limitless				
Flatness (bearings) [μm]	± 20				
Eccentricity (bearings) [μm]	± 20				
Wobble [μrad]	± 500				
Weight [g]	15				
Motor option	Piezo Motor				
Speed, max [°/s]	10 (MMC-100), 25 (MMC-110)				
Encoder option	None (open loop)	Absolute (BiSS C)**			
Resolution, typical [mº]	0.01	<1			
Repeatability, bi-directional [μ°]	n/a	± 50			
Repeatability, uni-directional [μ°]	n/a	50			
Materials	aluminum body, steel bearing (other materials i.e. stainless steel, titanium, etc. available upon reque				

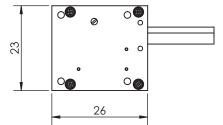
ORDERING INFORM	ATION PR-20-	1	1	0	
DRIVE	Piezo Motor 1 -				
TRAVEL	360° 1 –				
ENCODER	None				
LIMIT SWITCH	None 0 –				
ENVIRONMENT	Atmospheric				
	Open Loop Only ** Only compatible with MMC-110 controller				

Load, max	F <sub>r</sub> [N]	F <sub>Z</sub> [N]	M <sub>r</sub> [N·m]	<i>M<sub>Z</sub>[N·m]</i>	k <sub>αr</sub> [μrad/N·m]
PM-002	1	1	0.05	0.01	-









all dimensions are in millimeters

