

Piezo Rotation Stage | PR-32CR

NEW

Preliminary Available Q2, 2026

www.micronixusa.com | info@micronixusa.com | phone: +1 (949) 480 0538 | fax: +1 (949) 480 0538

The PR-32CR is a compact piezo rotation stage with unlimited 360° travel and an 8mm clear aperture, offering incremental and absolute encoder options. Precision crossed-roller bearings provide smooth motion, increased stiffness, and high stability in a small form factor. Powered by Micronix's patented piezo motor, it delivers fast, precise rotation with high blocking torque and can be paired with the linear PPX-32CR for multi-axis configurations. Compatible with MMC-100, MMC-110, MMX-Series, and NanoDrive controllers.

KEY FEATURES

- 8mm clear aperture
- 10 μ ° Digital encoder resolution
- Load capacity up to 1 kg
- Crossed roller bearings
- Vacuum versions available
- Continuous 360° motion

TECHNICAL DATA

Travel range [°]	360, Continuous		
Flatness (bearings) [μ m]	± 10		
Eccentricity (bearings) [μ m]	± 10		
Wobble [μ rad]	± 400		
Weight [g], Open Loop	41		
Weight [g], Closed Loop	58		
Motor option	Piezo Motor		
Speed, max [°/s]	>5 (MMC-100), 20 (MMC-110 & NanoDrive)		
Encoder option	None (open loop)	Digital (RS-422)	Absolute (BiSS-C)
Resolution, typical [μ °]	1	10	<200
Repeatability, bi-directional [μ °]	n/a	± 200	TBD
Repeatability, uni-directional [μ °]	n/a	200	TBD
Materials	aluminum body, steel bearing (other materials i.e. stainless steel, titanium, etc. available upon request)		

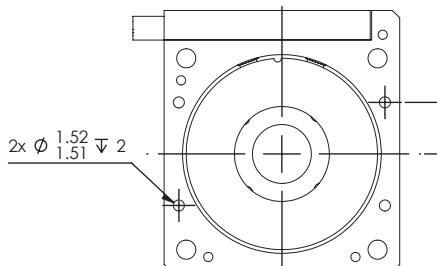
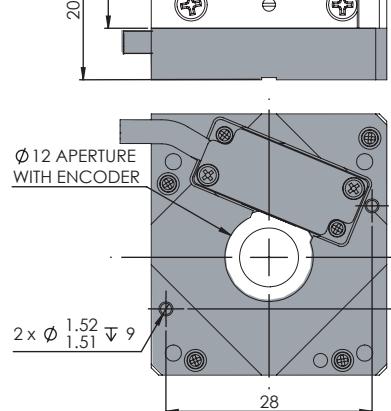
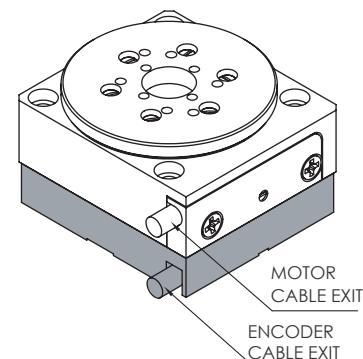
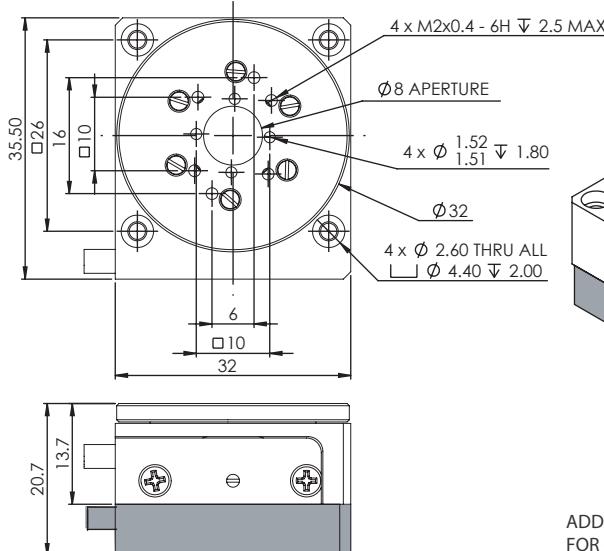
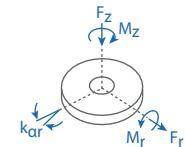
ORDERING INFORMATION

PR-32CR- 1 1 1 1

DRIVE	Piezo Motor, PM-002R	1
TRAVEL	360°, Continuous	1
ENCODER	None	0
	Digital (RS-422)	3
	Absolute (BiSS C)	5
HOME SWITCH	None	0
	Magnetic [†]	1
ENVIRONMENT	Atmospheric	0
	High Vacuum, 10^{-6} mbar	6
	Ultra High Vacuum, 10^{-9} mbar	9

[†] Only available in open loop

Load, max	F_r [N]	F_z [N]	M_r [N·m]	M_z [N·m]	k_{ar} [μ rad/N·m]
PM-002R	10	10	0.5	0.025	150



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

Specifications are subject to change without notice.