

# Piezo Rotation Stage | PR-32CR

NEW

Preliminary Available Q2, 2026  
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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  $\mu^\circ$  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) [ $\mu\text{m}$ ]	$\pm 10$		
Eccentricity (bearings) [ $\mu\text{m}$ ]	$\pm 10$		
Wobble [ $\mu\text{rad}$ ]	$\pm 400$		
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 [ $\mu^\circ$ ]	1	10	<200
Repeatability, bi-directional [ $\mu^\circ$ ]	n/a	$\pm 200$	TBD
Repeatability, uni-directional [ $\mu^\circ$ ]	n/a	200	TBD
Materials	aluminum body, steel bearing (other materials i.e. stainless steel, titanium, etc. available upon request)		

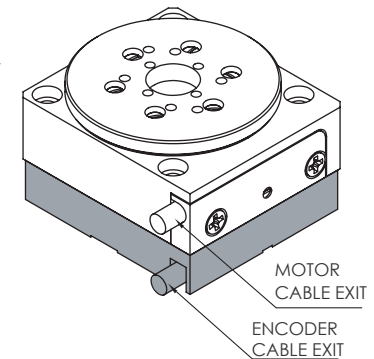
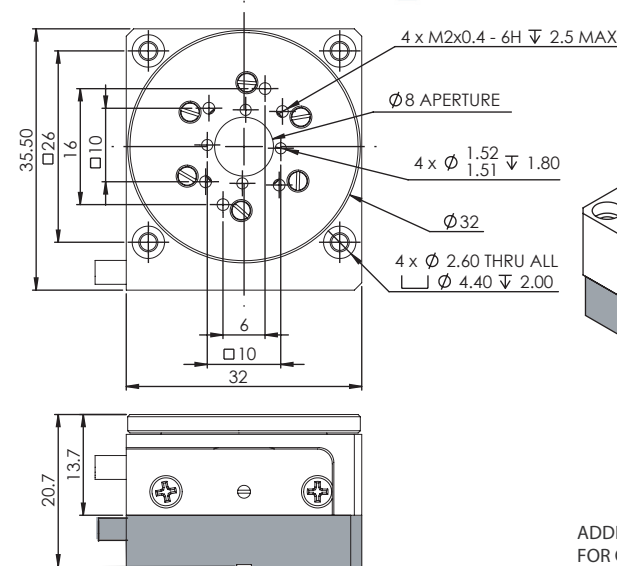
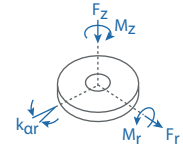
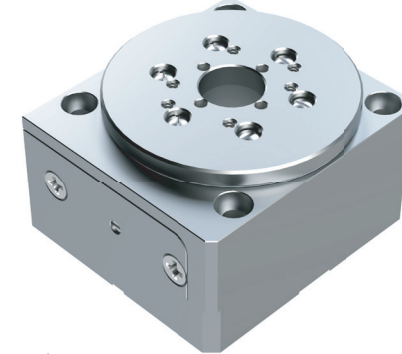
## ORDERING INFORMATION

PR-32CR- 1 1

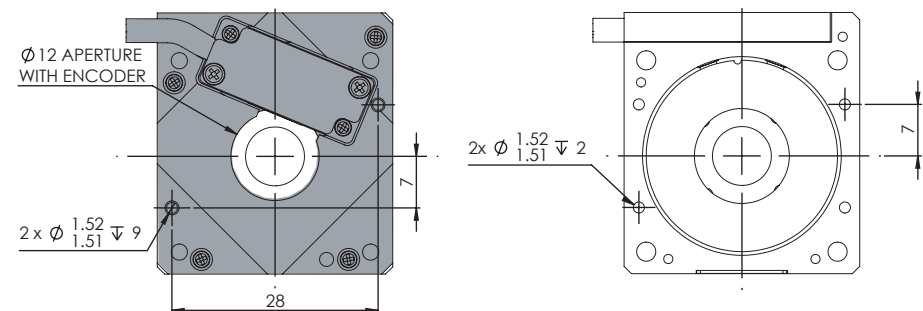
DRIVE	Piezo Motor, PM-002R .....	1
TRAVEL	360°, Continuous .....	1
ENCODER	None .....	0
	Digital (RS-422) .....	3
	Absolute (BiSS C) .....	5
HOME SWITCH	None .....	0
	Magnetic <sup>†</sup> .....	1
ENVIRONMENT	Atmospheric .....	0
	High Vacuum, 10 <sup>-6</sup> mbar .....	6
	Ultra High Vacuum, 10 <sup>-9</sup> mbar .....	9

<sup>†</sup> Only available in open loop

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



ADDITIONAL BOTTOM VIEW  
FOR OPEN LOOP CONFIGURATION



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

Specifications are subject to change without notice.