

SUM-40NM Nonmagnetic Ultrasonic Motor

www.dynamic-structures.com/nonmagnetic-ultrasonic-motor

Description

The SUM-40NM is a direct drive piezo motor stage with an integrated optical encoder that gives the user closed loop control in a compact package. Despite its small size, the SUM-40NM boasts a continuous torque of 50 mN-m while the integrated optical encoder provides 130 microradian resolution.

Highlights

- Nonmagnetic
- Compact, lightweight design
- Zero Power Hold
- High Precision
- Zero backlash
- Quiet operation

Specifications

- Driver / Controller: UMD3.1
- Total Rotation: 360° Continuous
- No Load Speed: 250 RPM (1500deg/s)
- Max Rated Torque: 100 mN-m
- Continuous Torque: 50 mN-m
- 0V Holding Torque: 100 mN-m
- Feedback: Optical Encoder
- Encoder Resolution: 46,592 counts/rev
130 microradians
- Mass: 56g
- Rotary Inertia: 0.35 kg-mm²
- Operational Temp: -10C to 55C
- Max Dimensions: 40mm x 40mm x 22.6mm
- Shaft Diameter: 4mm
- Shaft Radial Load: 20N
- Shaft Axial Load: 20N away from motor
10N toward motor
- Frame size: NEMA 17
- Motor Housing: Aluminum
- Lead Length: 2m standard

