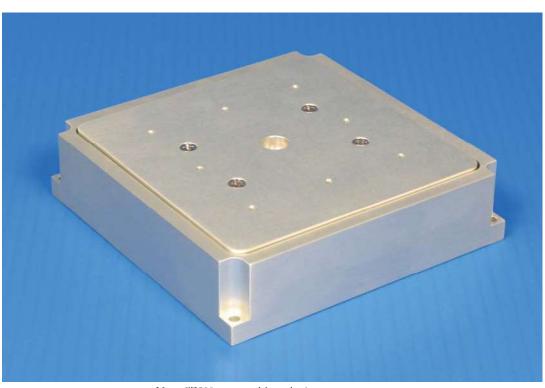
Features

- ▶ Single axis (Z) motion
- ► Long range motion 500µm
- ▶ Compact size
- ▶ Closed loop control
- pico sensor technology

Typical Applications

- Precision optical alignment and mirror positioning
- ▶ High resolution probe positioning
- ▶ Metrology



LabVIEW Compatible USB Interfaces



Examples, tutorial, and Nano-Route*3D supplied with Nano-Drive* USB interfaces.

Nano-CZ500 constructed from aluminum.

Product Description

The Nano-CZ500 is a compact, long range, single axis (Z-axis) precision nanopositioning system. Internal position sensors utilizing proprietary **pica** technology provide absolute, repeatable position measurement with nanometer resolution under closed loop control. An optional center aperture up to 0.5 inches in diameter

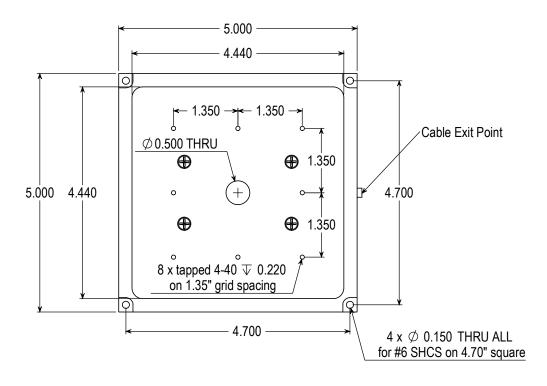
provides an optical pathway through the stage. The Nano-CZ500 can be operated in any orientation and is well suited for static alignment and moderate speed, long range scanning applications.



Technical Specifications

Range of motion (Z)	500 μm
Resolution	1.0 nm
Resonant Frequency	200 Hz ±20%
Stiffness	1.0 N/μm
Recommended max. load (horizontal)*	0.5 kg
Recommended max. load (vertical)*	0.1 kg
Body Material	Aluminum
Controller	Nano-Drive®

^{*} Larger load requirements should be discussed with our engineering staff.





Note: All Dimensions in Inches