Features

- ▶ Compact size
- ► Three axis motion (XYZ)
- ▶ $50 \mu m \times 50 \mu m \times 25 \mu m$ ranges of motion
- ► Center aperture: 0.25"
- ▶ Closed loop control
- pico sensor technology

Typical Applications

- ▶ Alignment
- ► MEMS
- ▶ Nanolithography
- ▶ SEM





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



Nano-M350 (actual size) constructed from aluminum and titanium.

Product Description

The Nano-M350 is a compact three axis (X, Y, Z) nanopositioning system constructed from aluminum combined with titanium or constructed completely from invar for the highest degree of thermal stability. The compact design of the Nano-M350 allows it to be easily integrated into existing instrumentation for applications

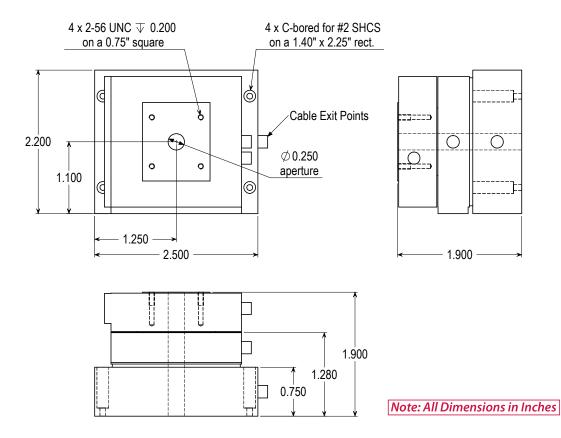
such as nanolithography, SEM. Internal position sensors utilizing proprietary **pico** technology provide absolute, repeatable position measurement with picometer accuracy under closed loop control. The Nano-M350 is also available in high vacuum (non-bakeable) compatible models.



Technical Specifications

- 2 (7.1)
Range of motion (X) 50 μm
Range of motion (Y)50 μm
Range of motion (Z)
Resolution (25/50 $\mu m)0.05/0.1 \ nm$
Resonant Frequency (X)
Resonant Frequency (Y)700 Hz ±20%
Resonant Frequency (Z)700 Hz ±20%
$Stiffness 1.0 \ N/\mu m$
θ_{roll} , θ_{pitch} (typical) $\leq 1 \mu rad$
θ_{yaw} (typical)
Recommended max. load (horizontal)*0.5 kg
Recommended max. load (vertical)*0.2 kg
Body MaterialAl and Titanium, or Invar
Controller

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



phone: 608-298-0855