

Nano-H Series

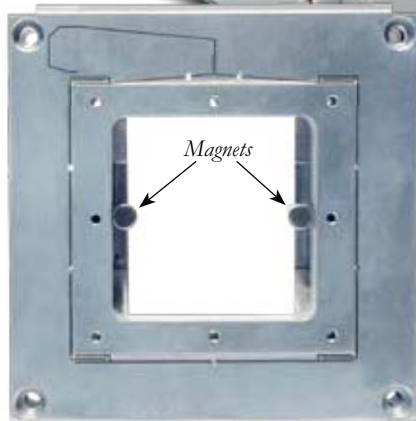
Features

- ▶ Aperture for microscopy: 2" × 2"
- ▶ Two axis motion
- ▶ 100 μm or 50 μm ranges of motion
- ▶ Compact size
- ▶ Economical
- ▶ **pico**™ sensor technology
- ▶ Closed loop control

Typical Applications

- ▶ Optical microscopy
- ▶ AFM
- ▶ Fluorescence imaging
- ▶ Optical trapping

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Nano-H100 with re-entrant microscope slide holder.
High strength magnets hold the slide in place.

Nano-H100 (2-axis)
constructed from aluminum.



Compatible Software Packages



Examples, tutorial, and
Nano-Route™ 3D sup-
plied with Nano-Drive™
USB interfaces.



Analog motion
control



USB and analog
motion control



THE OPEN SOURCE
MICROSCOPY SOFTWARE
USB motion control

Product Description

The Nano-H Series is a compact 2-axis positioning stage which provides excellent positioning performance at an economical price. The large center aperture makes the Nano-H Series ideal for applications requiring transmitted beams, or the mounting of bulky components such as multiple fibers, optics, and metrology probes. Internal position sensors utilizing proprietary **pico**™ technol-

ogy provide absolute, repeatable position measurement and picometer accuracy when operated with the Nano-Drive™ controller. The Nano-H Series is available in custom ranges of motion and can be constructed from aluminum, invar or titanium.

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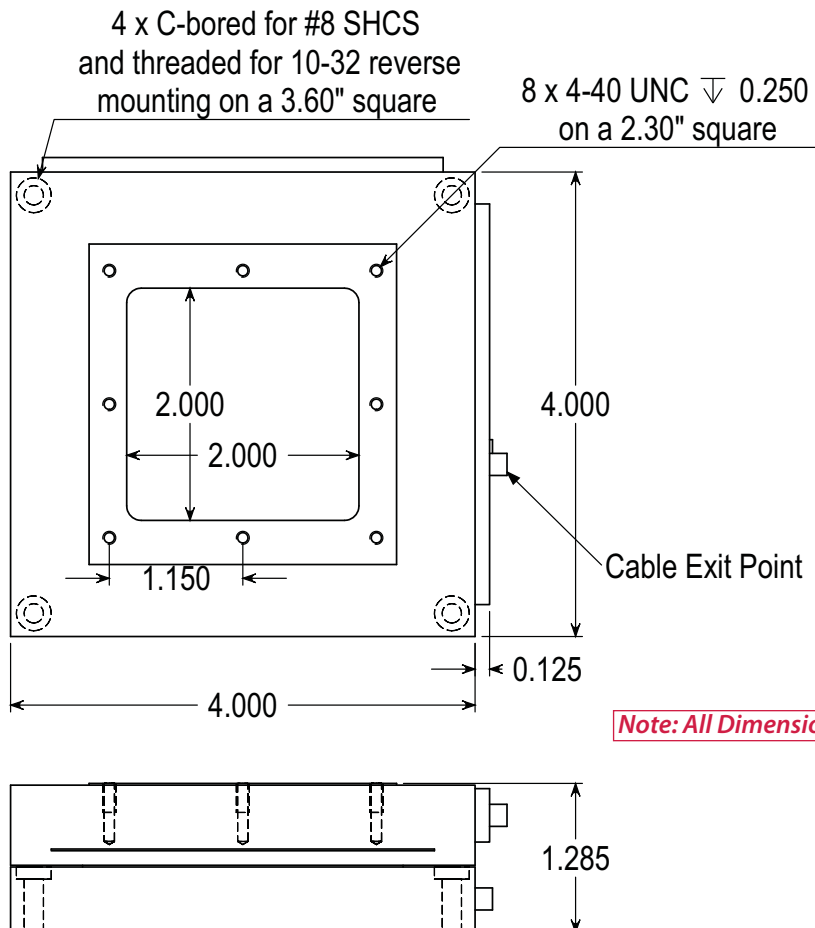
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Technical Specifications

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Range of motion (Nano-H100).....	100 μm x 100 μm
Range of motion (Nano-H50).....	50 μm x 50 μm
Resolution (Nano-H100).....	0.2 nm
Resolution (Nano-H50).....	0.1 nm
Resonant Frequency (X).....	500 Hz \pm 20%
Resonant Frequency (Y).....	250 Hz \pm 20%
Stiffness.....	1.0 N/ μm
θ_{roll} , θ_{pitch} (typical).....	≤ 1 μrad
θ_{yaw} (typical).....	≤ 3 μrad
Recommended max. load (horizontal)*.....	0.5 kg
Recommended max. load (vertical)*.....	0.2 kg
Body Material.....	Al, Invar or Titanium
Controller.....	Nano-Drive™

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



Note: All Dimensions in Inches

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