Features

- ▶ Aperture for microscopy: 2" x 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



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** technology provide absolute, repeatable position measurement and picometer resolution 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.



Technical Specifications

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 ±20%
Resonant Frequency (Y)	250 Hz ±20%
Stiffness	1.0 N/μm
θ_{roll} , θ_{pitch} (typical)	≤1 µrad
θ_{vaw} (typical)	≤3 µrad
Recommended max. load (horizontal)	*0.5 kg
Recommended max. load (vertical)*	0.2 kg
Body MaterialAl	, Invar or Titanium
Controller	Nano-Drive®

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



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