Features

- Large load capacity
- ▶ Two axis motion
- 50 μ m x 50 μ m ranges of motion
- Extra large aperture
- ▶ Closed loop control
- pico sensor technology

Typical Applications

- Precision cryostat positioning
- Low temperature optical microscopy
- ▶ Quantum dot research
- High load positioning



Nano-Max50 (2-axis) constructed from aluminum.

Product Description

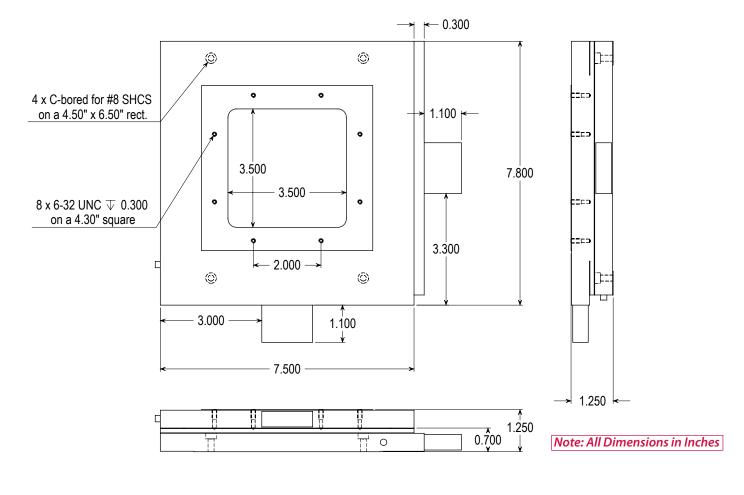
The Nano-Max50 is a heavy duty, two axis nanopositioning stage designed to carry heavy experimental assemblies. With a load capacity of 5 kg, the Nano-Max50 to be used in applications such as precision positioning of cryostats for low temperature optical microscopy. The low profile and extra large aperture allows the Nano-Max50 to be integrated into existing optical microscopes. Internal position sensors utilizing proprietary **pice** technology provide absolute, repeatable position measurement with picometer accuracy under closed loop control. Special Nano-Max systems can be built with ranges of motion that exceed the standard 50 microns.



Technical Specifications

Range of motion (X) 50 µm
Range of motion (Y) 50 µm
Resolution0.1 nm
Resonant Frequency (X) 1.5 kHz ±20%
Resonant Frequency (Y) 1.0 kHz ±20%
Stiffness
θ_{roll} , θ_{pitch} (typical)≤1 µrad
θ_{yaw} (typical) $\leq 3 \mu rad$
Recommended max. load (horizontal)*5 kg
Body MaterialAl
ControllerNano-Drive®/Nano-Drive®85

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



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