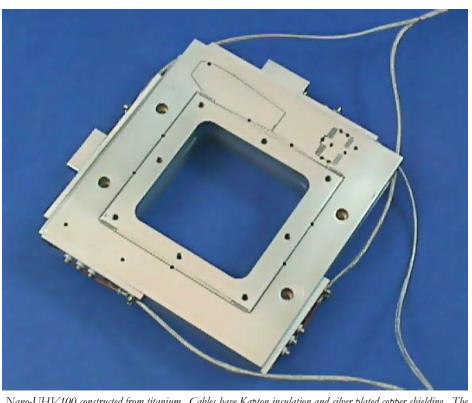
Features

- ▶ UHV compatible construction
- ▶ Two axis (XY), large aperture
- ▶ $100 \mu m \times 100 \mu m$ ranges of motion
- ▶ Bakeable to 100° C
- ▶ Titanium or invar construction
- > pico sensor technology
- ▶ Closed loop control

Typical Applications

- ► X-ray, VUV, and optical microscopy
- ► Surface metrology
- ▶ UHV atomic scale microscopy
- Special designs just contact us with your requirements



Nano-UHV 100 constructed from titanium. Cables have Kapton insulation and silver plated copper shielding. The 15-pin, sub-D, vacuum compatible PEEK connector is wired to be compatible with vacuum feedthrough flanges.

LabVIEW Compatible USB Interfaces



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

Product Description

The Nano-UHV100 is a two axis UHV compatible nanopositioning stage constructed from titanium or invar. Made entirely from UHV compatible materials, the Nano-UHV100 can be baked to 100°C for vacuum applications in the 10⁻¹⁰ Torr range. The large (2.6" x 2.6") center aperture makes the Nano-UHV100 ideal for vacuum microscopy applications. Internal position sensors utilizing proprietary pico technology

provide absolute, repeatable position measurement with picometer accuracy. Cable lengths and connectors are customized for the actual installation. Connector wiring is compatible with Accu-Glass Products electrical feedthrough flanges - compatibility with other types of flanges may be requested.

Note: Customized UHV stages are always welcome - just email or call to discuss your special requirements.

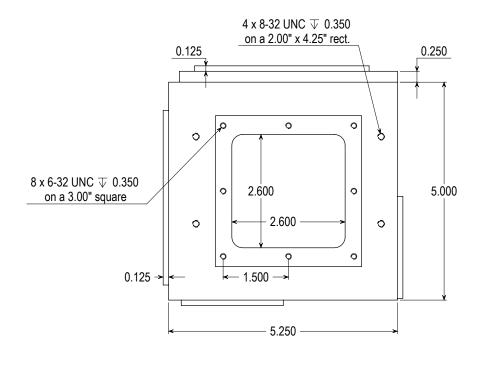
phone: 608-298-0855

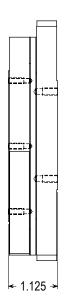


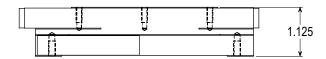
Technical Specifications

Range of motion (X) 100 μm
Range of motion (Y) 100 μm
Resolution (XY)
Resonant Frequency (X) 500 Hz ±20%
Resonant Frequency (Y) 250 Hz ±20%
$Stiffness 1.0 \ N/\mu m$
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 Invar or Titanium
Controller

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







Note: All Dimensions in Inches