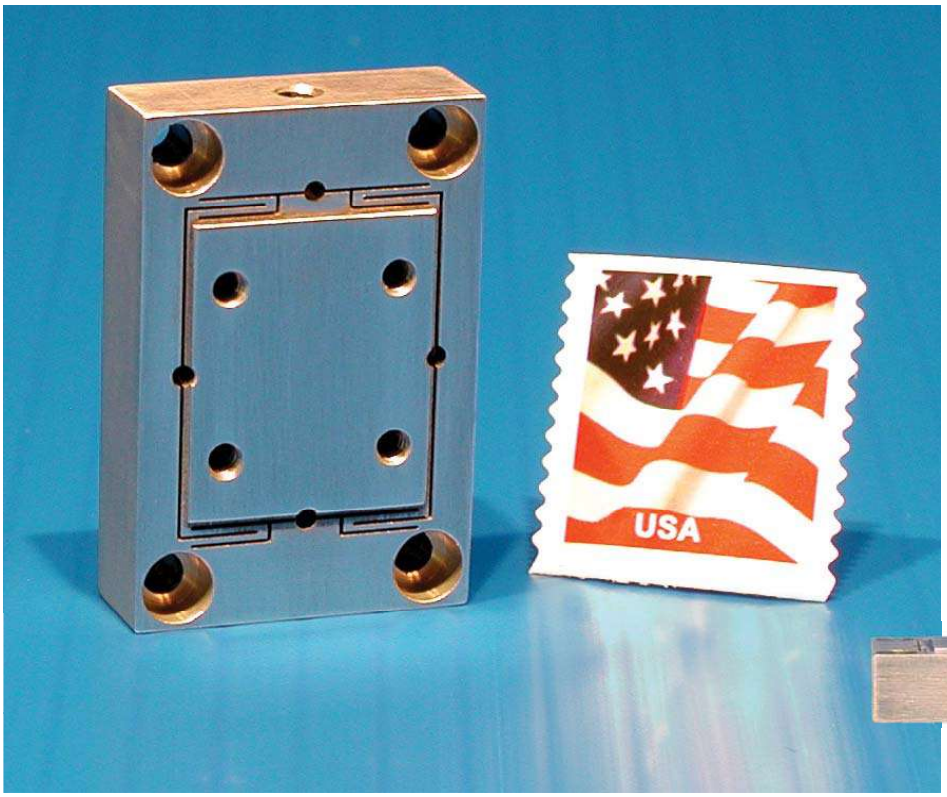
Nano-Mini

Features

- *Ultra small footprint: 1" x 1.5"*
- *Stackable for XY motion*
- *Closed loop control*
- *Titanium or invar construction*
- *picoQ® sensor technology*

Typical Applications

- *Optical fiber alignment*
- *Optical positioning*
- *Interferometry*



Nano-Mini constructed from titanium.

Actual Size

LabVIEW Compatible USB Interfaces

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

Product Description

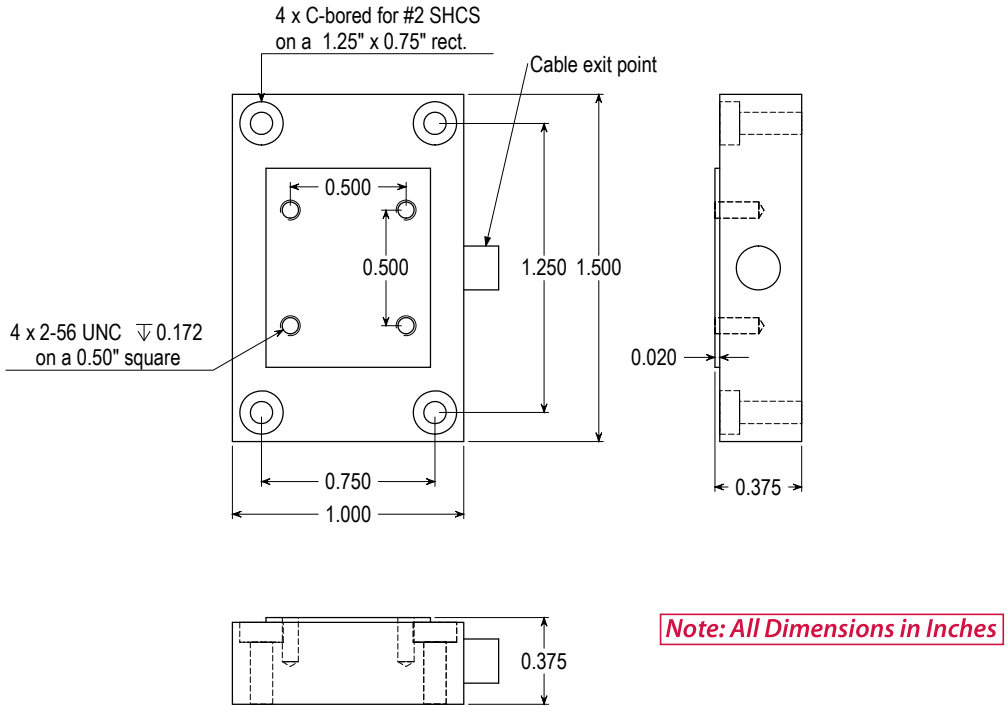
The Nano-Mini is one of the smallest flexure guided nanopositioning stages available. Designed for optimum performance on a small footprint, this stage uses an innovative mini-cross section multilayer piezo ceramic which allows for a stiff stage to translate 10 microns with picometer precision. This unique design makes it ideal for applications in precision metrology and microscopy.

Internal position sensors utilizing proprietary picoQ® technology provide absolute, repeatable position measurement with picometer accuracy under closed loop control. Available in titanium or invar.

Technical Specifications

Range of motion ..... 10 µm
Resolution ..... 0.02 nm
Resonant Frequency ..... 1.5 kHz ±20%
Resonant Frequency (50g load) ..... 650 Hz ±20%
Stiffness ..... 1.0 N/µm ±20%
θ_{roll} , θ_{pitch} (typical) ..... ≤1 µrad
θ_{yaw} (typical) ..... ≤2 µrad
Recommended max. load (horizontal)* .....0.5 kg
Recommended max. load (vertical)* .....0.15 kg
Body Material ..... Titanium or Invar
Controller ..... Nano-Drive®

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



Note: All Dimensions in Inches