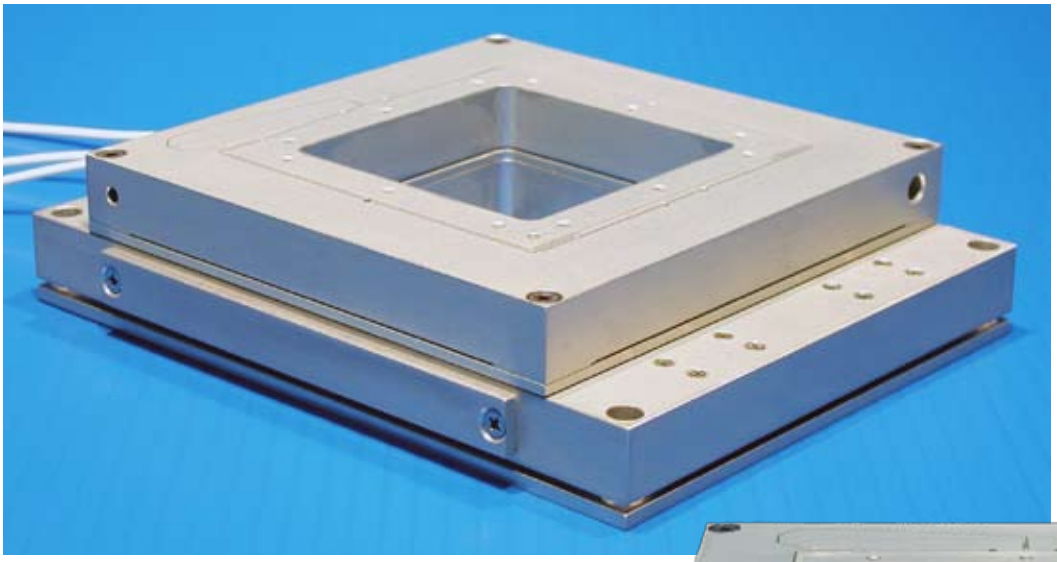
Nano-T Series

Features

- *Economical multi-axis nanopositioner*
- *Two or three axis motion*
- *100 µm or 200 µm XY ranges of motion*
- *20 µm or 50 µm Z range of motion*
- *Large aperture*
- *picoQ® sensor technology*
- *Closed loop control*

Typical Applications

- *Multi-axis alignment*
- *Fluorescence imaging*
- *Closed-loop AFM scanner*
- *Super resolution microscopy*



Nano-T115 (3-axis) constructed from aluminum.

Compatible Software Packages

LabVIEW

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

Image-Pro® AMS

Analog motion control

MetaMorph®

USB and analog motion control

µManager
THE OPEN SOURCE MICROSCOPY SOFTWARE

USB motion control

SLIDEBOOK 5.0

Analog motion control, 1 or 2 axes.

Nano-T11 (2-axis) constructed from aluminum.

Product Description

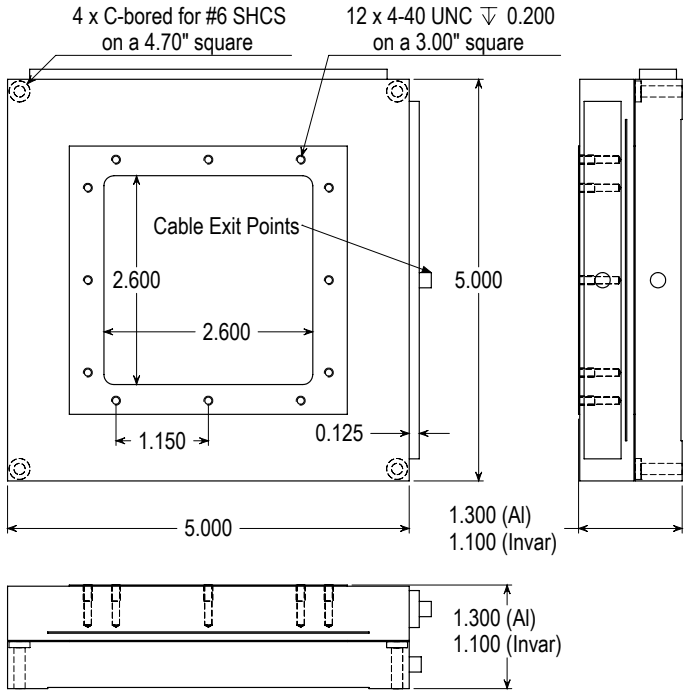
The Nano-T Series are economical, multi-axis nanopositioning systems which are available in a variety of configurations. The Nano-T Series have up to 200 microns range of motion in X and Y, and up to 50 microns in Z. The large center aperture accomodates lenses and probes without compromising performance. Internal position sensors utilizing proprietary picoQ® technology provide absolute, repeatable position measurement and picometer resolution under closed loop control. The Nano-T Series is well suited to applications in which precise positioning is required but the overall stage height is not critical. If extremely low profile systems are required, the Nano-Bio Series and Nano-BioS Series (XY) or the Nano-LP Series and Nano-LPS Series (XYZ) should be considered.

Technical Specifications

Range of motion (X, Y) .....100 µm/200 µm
Range of motion (Z) .....20 µm/50 µm
Resolution XY (100/200 µm) .....0.2/0.4 nm
Resolution Z (20/50 µm) .....0.04/0.1 nm
Resonant Frequencies
X axis (100/200 µm) .....450/400 Hz ±20%
Y axis (100/200 µm).....250/200 Hz ±20%
Z axis (20/50 µm) .....450/350 Hz ±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 or Invar
Controller ..... Nano-Drive®

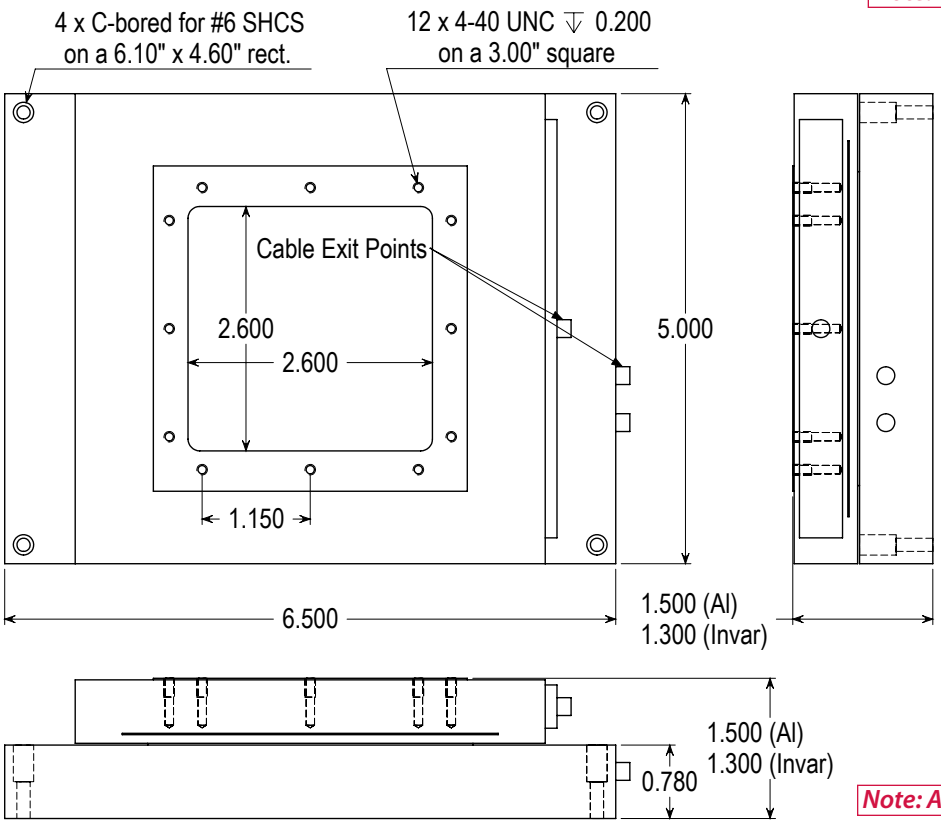
* Larger load requirements should be discussed with our engineering staff.

2-Axis
Nano-T11
Nano-T22



Note: All Dimensions in Inches

3-Axis
Nano-T112
Nano-T115
Nano-T222
Nano-T225



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