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
- ▶ pico sensor technology
- ▶ Closed loop control

Typical Applications

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



Product Description

The Nano-T Series are economical, multi-axis piezo nanopositioning systems which are available in XY and XYZ 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 $\mu m/200~\mu m$
Range of motion (Z)20 $\mu m/50~\mu m$
Resolution XY (100/200 μ m)0.2/0.4 nm
Resolution Z (20/50 μ m)0.04/0.1 nm
Resonant Frequencies
X axis (100/200 μ m)425/345 Hz ±20%
Y axis (100/200 μ m)150/140 Hz ±20%
Z axis
Stiffness
θ_{roll} , θ_{pitch} (typical)≤1 µrad
θ_{vaw} (typical)
Recommended max. load (horizontal)*0.5 kg
Recommended max. load (vertical)*0.2 kg
Body Material Aluminum
Controller Nano-Drive®

Nano-T22

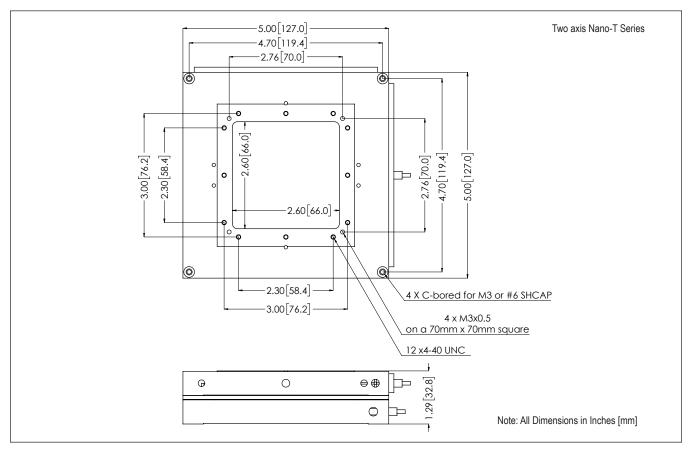
Nano-T112

Nano-T115

Nano-T222

Nano-T225

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



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