Features

- ▶ Compact size
- Five axis motion (XYZ θ_X θ_Y)
- $50 \mu m \times 50 \mu m \times 25 \mu m \times 1 m rad \times 1 m rad$
- ▶ Closed loop control
- pico sensor technology

Typical Applications

- ▶ Alignment
- ► MEMS
- Nanolithography
- ▶ SEM



The Nano-Man5 is a 5 axis closed loop nanopositioning system constructed from aluminum.

LabVIEW Compatible USB Interfaces



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

Product Description

The Nano-Man5 is a five axis (X, Y, Z, θ_X , θ_Y) nanopositioning system with closed loop feedback control for absolute position measurement. The compact design of the Nano-Man5 allows it to be easily integrated into existing instrumentation for applications such as nanolithography and SEM. The Nano-Man5 is ideal for alignment applications which require three linear axes of motion combined with "tip" and "tilt" ($\theta_X\theta_Y$). Internal

position sensors utilizing proprietary **pico** technology provide absolute, repeatable position measurement with picometer and nanoradian accuracy under closed loop control. The Nano-Man5 is also available in high vacuum (non-bakeable) compatible models. Similar to the Nano-Man5, the Nano-M350 shares the same physical dimensions but has only three axes (XYZ) of motion.

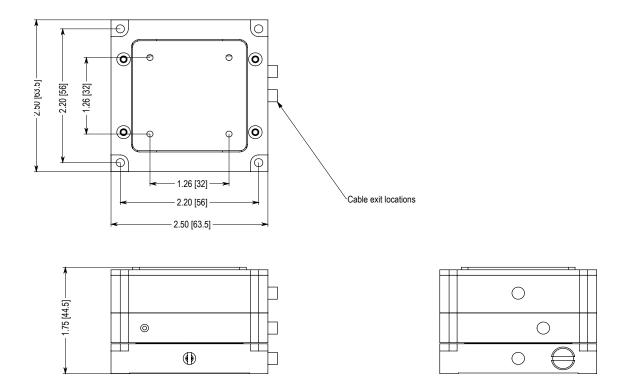


Technical Specifications

Range of motion (X) 50 μm
Range of motion (Y) 50 μm
Range of motion (Z)
Range of motion (θ_x)
Range of motion $(\theta_{\scriptscriptstyle Y})$
Resolution (X)
Resolution (Y)
Resolution (Z)
Resolution (θ_x)
Resolution (θ_y)

Resonant Frequency (X)	285 Hz ±20%
Resonant Frequency (Y)	235 Hz ±20%
Resonant Frequency (Z)	. 1580 Hz ±20%
Recommended max. load (horizontal)*.	0.2 kg
Recommended max. load (vertical)*	0.2 kg
Body Material	Aluminum
Controller	Nano-Drive®

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



Note: All Dimensions in Inches [mm]