

Nano-HL Series

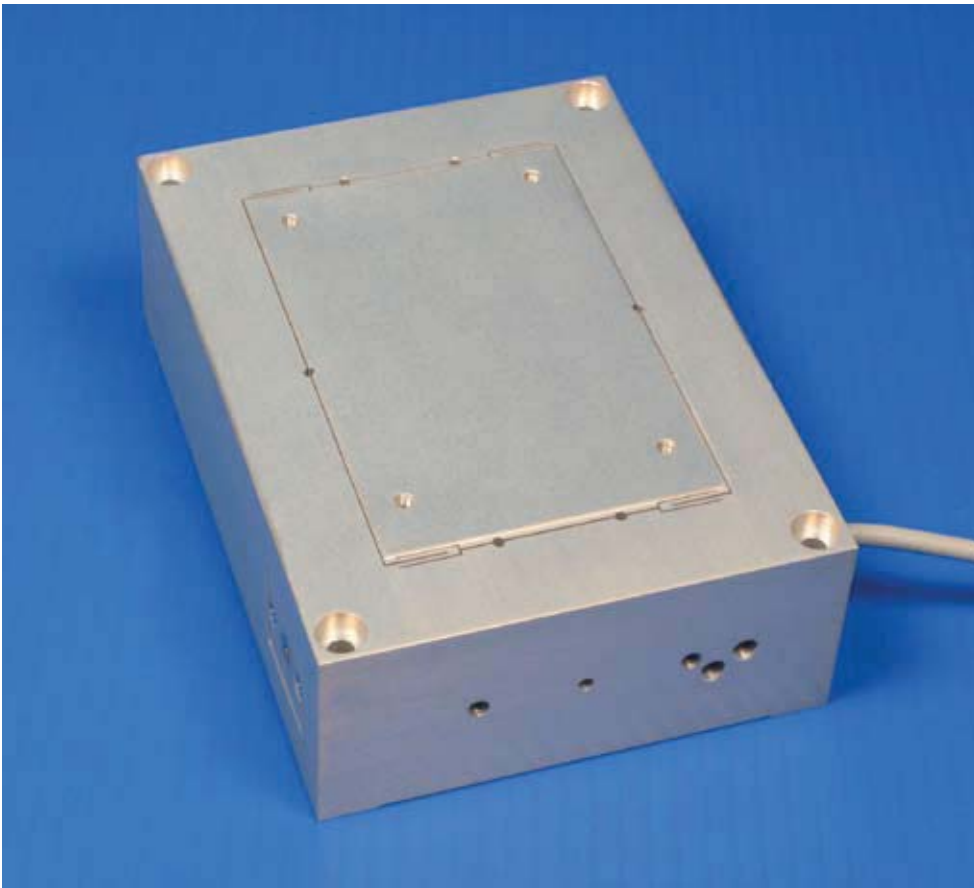
Features

- ▶ Heavy load capacity - up to 10kg
- ▶ Single axis motion
- ▶ Long range motion - up to 200 μ m
- ▶ Closed loop control
- ▶ **pico**™ sensor technology

Typical Applications

- ▶ Precise positioning of heavy optics or sensor assemblies
- ▶ Off-axis loading with high positional stability

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Nano-HL200 constructed from aluminum.

LabVIEW Compatible USB Interfaces



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

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Product Description

The Nano-HL Series single axis stages are heavy duty nanopositioners designed to carry loads weighing up to 10kg. Build from a single block of aluminum nearly 2 inches (50mm) thick, the Nano-HL has enough physical rigidity to counteract large off-axis loads while continuing to produce precise, high resolution movements. Internal position sensors utilizing proprietary **pico**™ technology

provide absolute, repeatable position measurement with sub-nanometer resolution under closed loop control. The Nano-HL Series stages can be operated in any orientation and may be customized to fit specific installations and special mounting requirements.

Technical Specifications

Range of motion (Nano-HL50)	50 μ m
Range of motion (Nano-HL100)	100 μ m
Range of motion (Nano-HL200)	200 μ m
Resolution (50/100/200 μ m)	0.1/0.2/0.4 nm
Resonant Frequency	450 Hz \pm 20%
Stiffness	1.0 N/ μ m
Recommended max. load (horizontal)*	10 kg
Recommended max. load (vertical)*	10 kg
Body Material	Aluminum
Controller	Nano-Drive™

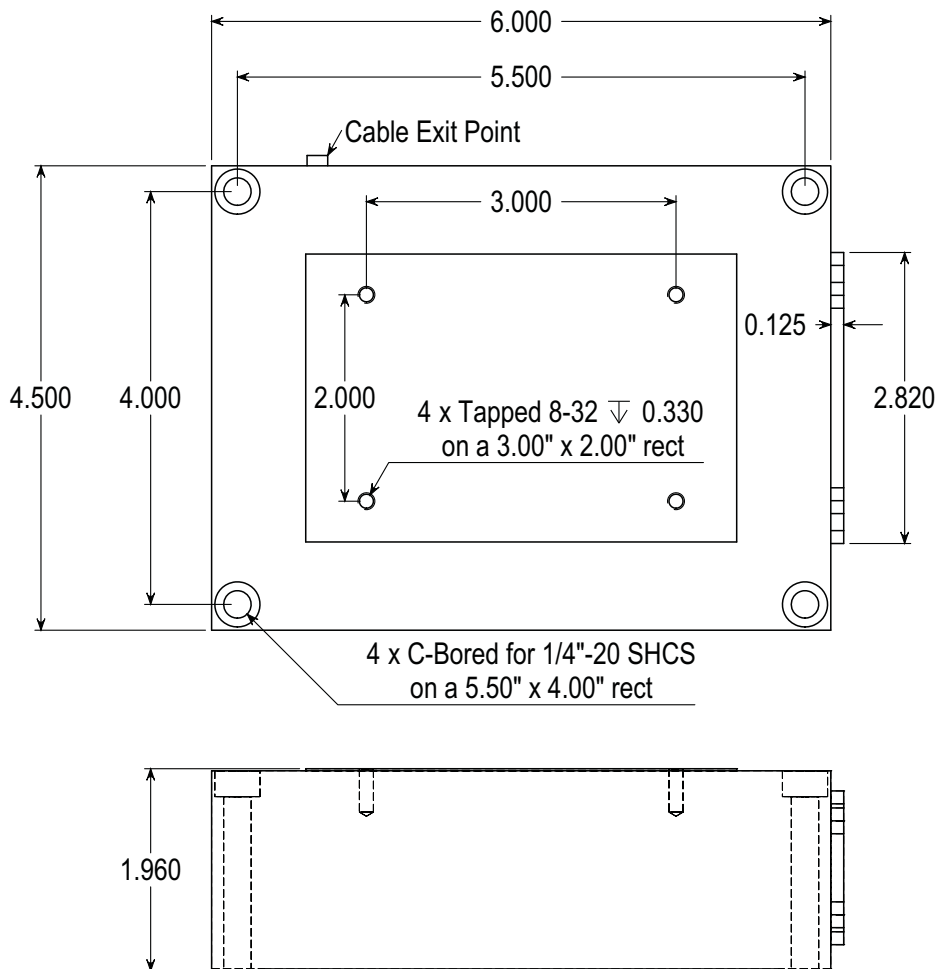
* Larger load requirements should be discussed with our engineering staff.

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Note: All Dimensions in Inches