

Nano-YT500

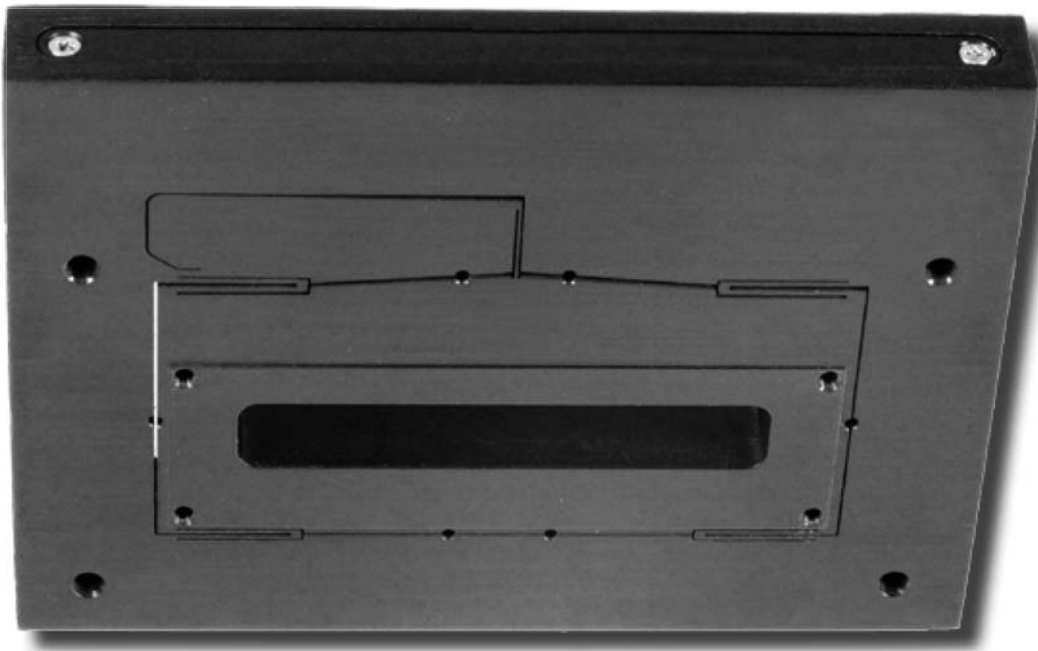
Features

- ▶ *Single axis motion*
- ▶ *Long range - 500 μ m*
- ▶ *Compact size*
- ▶ *Rectangular aperture*
- ▶ *Closed loop control*
- ▶ **pico**™ sensor technology

Typical Applications

- ▶ *Long range scanning*
- ▶ *Inspection, quality control*

02.583.2511 פז"מ-טק (1991) בע"מ
<Michael.Storch@pazam-tech.co.il>



Nano-YT500 constructed from aluminum.

LabVIEW Compatible USB Interfaces

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

Product Description

The Nano-YT500 is a long range, single axis, precision nanopositioning system with a central aperture well suited for optical scanning of samples. Internal position sensors utilizing proprietary **pico**™ technology provide absolute, repeatable position measurement with nanometer resolution under closed loop control. True flexure

guided motion of the Nano-YT500 minimizes the end-to-end differences in travel across the aperture to less than 1 μ m over the full 500 μ m range of motion (0.2%). The Nano-YT500 can be operated in any orientation and has been tested for reliability over 1,000,000 full cycles (1000 μ m).

Technical Specifications

Range of motion	500 μm
Resolution	1.0 nm
Resonant Frequency	150 Hz $\pm 20\%$
Stiffness	0.8 N/ μm
Recommended max. load (horizontal)*	0.5 kg
Recommended max. load (vertical)*	0.1 kg
Body Material	Aluminum
Controller	Nano-Drive™

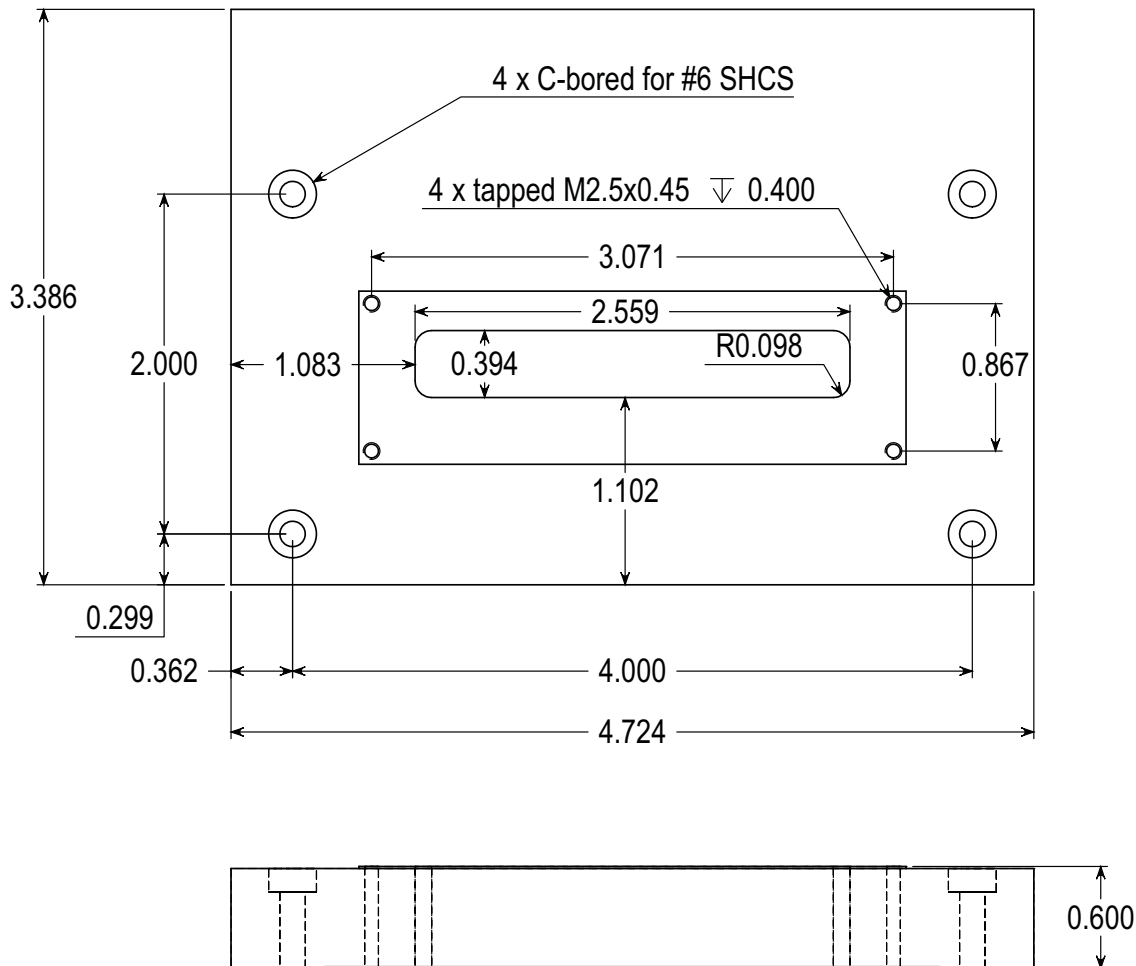
* Larger load requirements should be discussed with our engineering staff.

פז"מ-טק (1991) בע"מ

מייקל סטורץ' | 02.583.2511

PaZaM-tech@pobox.com

www.PaZaM-tech.co.il



Note: All Dimensions in Inches