

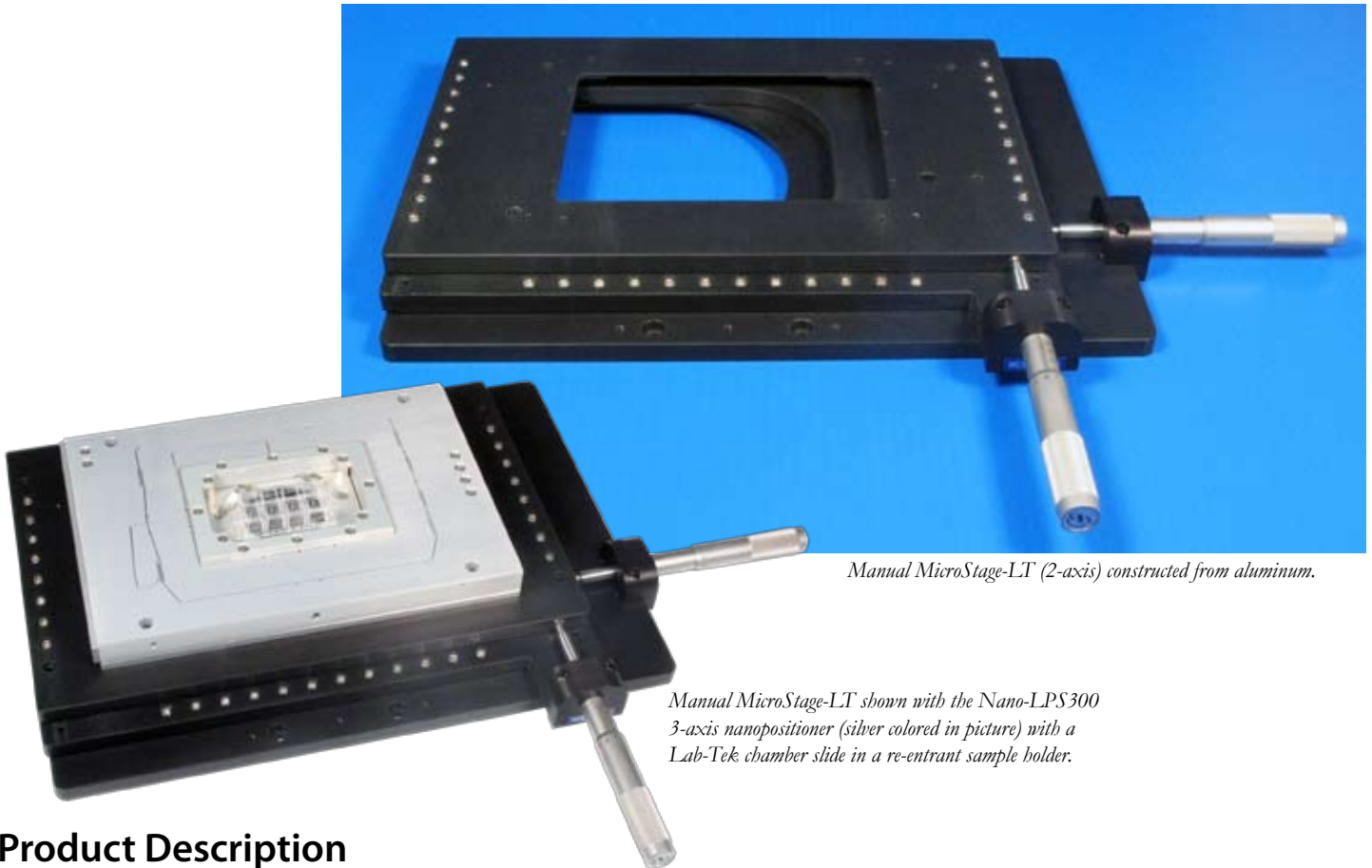
# Manual MicroStage-LT Series

## Features

- ▶ 50mm total motion on XY axes
- ▶ Allows objective nosepiece rotation
- ▶ Manual micrometer position adjustment
- ▶ 1  $\mu\text{m}$  vernier scales
- ▶ Integrated, continuous position locking
- ▶ Fits inverted microscopes and can be customized for other optical setups
- ▶ Highly stable

## Typical Applications

- ▶ Coarse positioning for high resolution nanopositioning stages
- ▶ Direct replacement for standard, non-locking microscopy stages



Manual MicroStage-LT (2-axis) constructed from aluminum.

Manual MicroStage-LT shown with the Nano-LPS300 3-axis nanopositioner (silver colored in picture) with a Lab-Tek chamber slide in a re-entrant sample holder.

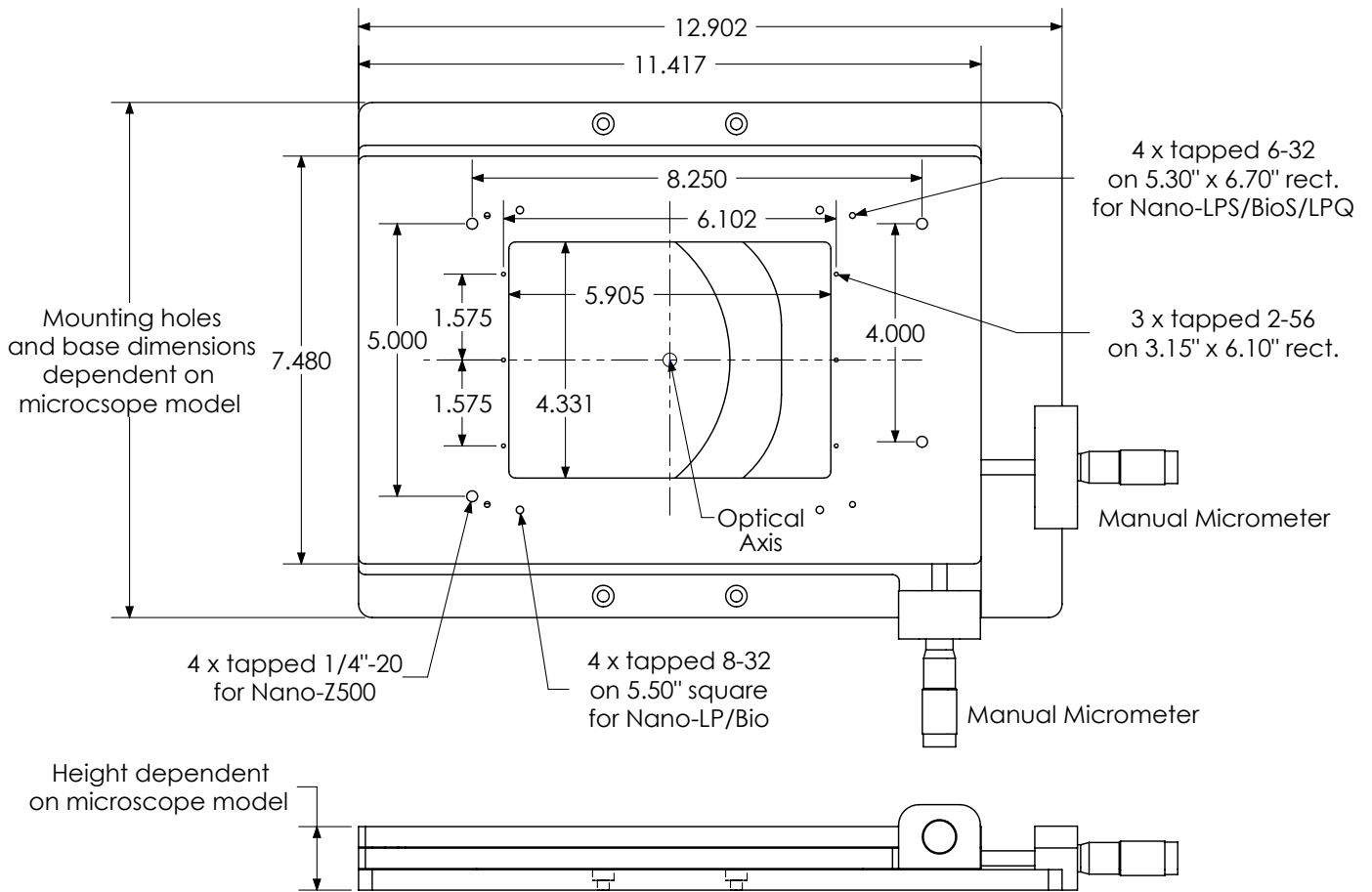
## Product Description

The Manual MicroStage-LT is the “long travel” version of Mad City Labs’ popular micrometer coarse positioning stages developed for use with high resolution nanopositioners. Two design changes distinguish the Manual MicroStage-LT from the standard version: longer XY travel (up to 50mm) and an aperture design which allows rotation of the microscope’s objective nosepiece. Like the standard model, continuous internal position locking combined with excellent stability makes this stage an

ideal base for high resolution nanopositioning stages. While not as “low profile” as the standard Manual MicroStage, the LT version has been carefully dimensioned to locate the top surface of the stage within the microscope’s focal range. Nanopositioning stages with re-entrant sample holders can be used on top of the Manual MicroStage-LT while maintaining the ability to change objective lenses. Mounting is available for all popular inverted research microscopes.

# Technical Specifications

Axes of motion ..... XY  
 Ranges of motion (XY)..... up to 50mm  
 Graduations ..... 10  $\mu$ m  
 Vernier graduations ..... 1  $\mu$ m  
 Body Material ..... Aluminum



**Note: All Dimensions in Inches**