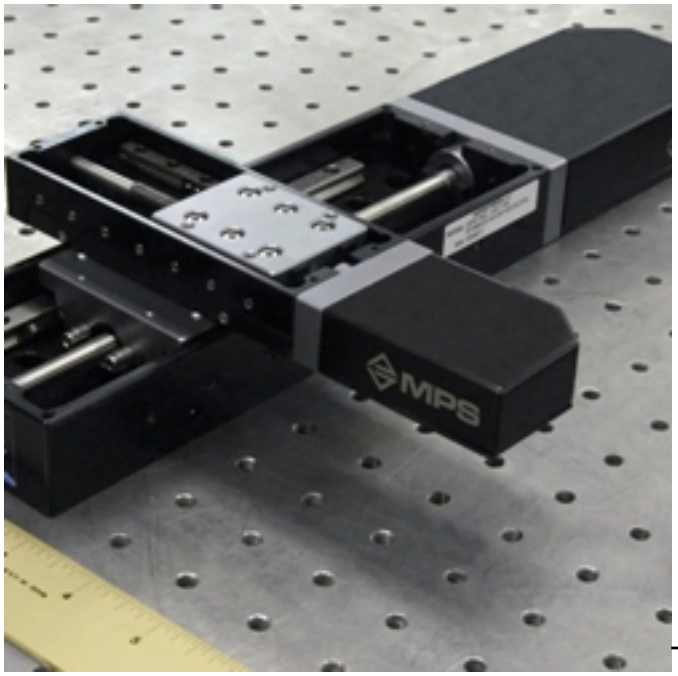
Miniature Linear Positioning Stages



The MPS50SL miniature linear positioning stage is perfect for the confines of the laboratory while retaining the high reliability required in production environments. It is an ideal choice for measurement, testing, alignment and component assembly in any space-constrained applications whether on the factory floor or in laboratory environments.
The precision-ground ball screw or lead screw has excellent accuracy and repeatability, with ultra-fine positioning resolution capability of 0.1 micron. The DC servomotor is equipped with a rotary encoder and the crossed-roller linear bearings provide exceptionally smooth travel and payload capabilities up to 5 kg with a stage mass of just 0.85 kg.

The MPS50SL is available vacuum prepped to 10^{-6} torr for applications in markets such as semiconductor manufacturing and inspection, optics fabrication, and military/aerospace.

A breadboard mounting plate provides direct mounting to both English and metric breadboards. Any model can be mounted in an XY configuration and, with the right-angle L-bracket, in XYZ configurations. The MPS50SL can also be directly mounted to the larger MPS75SL stage for a compact, high-performance XY system.

The MPS50SL is a member of the MPS (Miniature Positioning Stage) family of linear, rotary, goniometer, and vertical lift and Z stages from Aerotech. Two or more MPS stages can be mounted together in numerous combinations for a compact, accurate multi-axis motion solution.

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