

TECHSPEC® Piezo Assist Micrometer Stage Controller, 3 Axis



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C\$2,023⁰⁰

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General

3

Number of Channels:

Physical & Mechanical Properties

160 x 80 x 25

Dimensions (mm):

280

Weight (g):

Hardware & Interface Connectivity

Input Voltage (V):

6VVDC

Environmental & Durability Factors

+5 to +40 Operating Temperature (°C):

Regulatory Compliance

Compliant RoHS 2015:

View Certificate of Conformance:

Product Details

- Micrometer with Separate Piezo Actuator for Fine Adjustment
- 40 x 40mm and 70x70mm in English and Metric Hole Patterns Available
- Easily Assembled into X-Y and X-Y-Z Configurations

TECHSPEC® Crossed-Roller Bearing Piezo Tunable Linear Stages feature our [Standard-Top Crossed-Roller Bearing Linear Translation Stages](#) with an integrated piezo actuator for fine positioning with a 20nm resolution. The crossed roller bearing guide system provides a high level of accuracy, rigidity, and load capacity while the piezo movement ensures precision positioning. The piezo controller is easy to connect and use, featuring an indexed voltage control knob to control the actuator movement, and a switchable lock to fix the actuator in place. TECHSPEC® Crossed-Roller Bearing Piezo Tunable Linear Stages are ideal for a range of nanopositioning applications such as semiconductor inspection, DNA sequencing, and medical diagnostics. These stages are available with an English 1/4-20 TPI hole pattern or a Metric hole pattern with an M6 center mounting hole, allowing for integration with other [TECHSPEC® Manual Translation Stages](#) to create any number of axes in different configurations.

[TECHSPEC Z-Axis Brackets](#) are available to use with our translation stages to configure your own X-Y-Z multi-axis positioning system. TECHSPEC Bottom Adapter Plates provide an easy and convenient way of mounting the 40mm stages to standard breadboards. No adapter plate is required for the 70mm translation stages which can be mounted directly onto breadboards. A controller and power supply are required for use with the piezo actuator.