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**TECHSPEC® 40mm, Side Drive, Standard Top, Piezo Tunable Metric Micrometer Stage**



Stock #23-582 **2 In Stock**

⊖ 1 ⊕ €1.050<sup>00</sup>

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**Note:** This item requires accessories for use | [Learn More](#)

Product Downloads

**General**

Metric **Type:**

**Physical & Mechanical Properties**

Linear (X) **Type of Movement:**

Crossed Roller Bearing **Guide System:**

Side Drive	<b>Drive Orientation:</b>
40 x 40	<b>Stage Size (mm):</b>
13	<b>Travel (mm):</b>
M6 x 1	<b>Center Hole:</b>
Aluminium Stage	<b>Construction:</b>
0.5	<b>Leadscrew Pitch (mm):</b>
4	<b>Load Capacity (kg):</b>
1.57 x 1.57	<b>Stage Size (inches):</b>
2	<b>Straight Line Accuracy (µm):</b>
30	<b>Pitch (arcsec):</b>
25	<b>Yaw (arcsec):</b>
0.03	<b>Piezo Travel (mm):</b>
20.00	<b>Piezo Resolution (nm):</b>

## Optical Properties

10 **Resolution (µm):**

## Hardware & Interface Connectivity

**Type of Drive:**  
Metric Micrometer Coarse Adjustment Piezo Actuator  
Fine Adjustment

## Threading & Mounting

**Mounting Threads:**  
(1) M6 x 1, (4) M3 x 0.5, (8) M2 x 0.4

## Regulatory Compliance

**RoHS 2015:**  
[Exempt](#)

**Certificate of Conformance:**  
[View](#)

## 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 nan positioning 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.