

TECHSPEC® 70mm, Side Drive, Thru-Hole, English Micrometer Stage



Stock #66-442 **5 In Stock**

⊖ 1 ⊕ \$791⁰⁰

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Volume Pricing	
Qty 1-2	\$791.00 each
Qty 3+	\$689.64 each
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Product Downloads

General

English **Type:**

Physical & Mechanical Properties

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

Crossed Roller Bearing **Guide System:**

Side Drive **Drive Orientation:**

70 x 70	Stage Size (mm):
0.5	Travel (inches):
1" x 32 TPI	Center Hole:
Aluminium Stage	Construction:
0.635	Leadscrew Pitch (mm):
8	Load Capacity (kg):
2.75 x 2.75	Stage Size (inches):
2	Straight Line Accuracy (µm):
30	Pitch (arcsec):
25	Yaw (arcsec):

Hardware & Interface Connectivity

English Micrometer	Type of Drive:
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Threading & Mounting

(1) 1" x 32, (7) ¼-20, (4) 6-32	Mounting Threads:
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Regulatory Compliance

Exempt	RoHS 2015:
View	Certificate of Conformance:
Contains SVHC(s)	REACH 241:

Product Details

- Four Sizes Ranging from 30 x 30mm to 125 x 125mm
- Thru-Hole Design for Optical Path Transmission
- English and Metric Hole Patterns Available
- Micrometer and Lead Screw Drive Options

TECHSPEC® Crossed-Roller Bearing Linear Translation Stages (Thru-Hole Model) feature a high performance crossed roller bearing guide system that provides these stages with high load capacity, rigidity, and accuracy. This advanced bearing guide system allows the single axis translations stages to have precise positioning with straight line accuracy of 2µm. TECHSPEC® Crossed-Roller Bearing Linear Translation Stages (Thru-Hole Model) are able to integrate with other stage sizes as well as integrate with TECHSPEC® Manual Translation Stages, providing users the flexibility to create configurations with a number of axes. Translation stages are available with either English or Metric hole patterns for easy incorporation into existing optomechanical systems.

Thru-Hole Translational Stages are available with the following thread centered on their top plate: 5/16"-24 thread on our 30mm stages for use with our [#38-534](#) Pinhole Adapter, S-Mount (M12 x 0.5) on our 40mm stages, C-Mount (1"-32 TPI) on our 70mm stages, and T-Mount (M42 x 0.75) on our 125mm stages for compatibility with our C-, T-, and S-Mount Tube System Components.

All translation stages are class 100 (ISO 5) clean room compatible and available with a micrometer or lead screw drive with either center or side drive configuration. Leadscrew drives offer 0.5mm pitch, Metric micrometers offer 0.5mm pitch with 0.01mm divisions, and English micrometers offer 0.025" pitch with 0.001" divisions.

[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 30mm and 40mm stages to standard breadboards. No adapter plate is required for our 70mm and 125mm translation stages which can be mounted directly onto breadboards.

Technical Information

Bottom Stage	Top Stage																						
	30mm Linear Dovetail	30mm Linear	30mm Vertical	30mm Tip/Tilt	30mm Cosine	30mm Rotary	40mm Linear Dovetail	40mm Linear	40mm Vertical	40mm Tip/Tilt	40mm Cosine	40mm Rotary	70mm Linear	70mm Vertical	70mm Tip/Tilt	70mm Cosine	70mm Rotary	125mm Linear	125mm Vertical	125mm Tip/Tilt	125mm Rotary		
30mm Linear Dovetail	Compatible	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Compatible	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
30mm Linear	Not Applicable	Compatible	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Compatible	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
30mm Vertical	Not Applicable	Not Applicable	Compatible	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Compatible	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
30mm Tip/Tilt	Not Applicable	Not Applicable	Not Applicable	Compatible	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Compatible	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
30mm Cosine	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Compatible	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Compatible	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
30mm Rotary	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Compatible	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Compatible	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
40mm Linear Dovetail	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Compatible	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
40mm Linear	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Compatible	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
40mm Vertical	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Compatible	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
40mm Tip/Tilt	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Compatible	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
40mm Cosine	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Compatible	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
40mm Rotary	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Compatible	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
65mm Linear Dovetail	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Compatible	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
70mm Linear	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Compatible	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
70mm Vertical	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Compatible	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
70mm Tip/Tilt	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Compatible	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
70mm Cosine	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Compatible	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
70mm Rotary	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Compatible	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
125mm Linear	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Compatible	Not Applicable	Not Applicable	Not Applicable	Not Applicable
125mm Vertical	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Compatible	Not Applicable	Not Applicable	Not Applicable
125mm Tip/Tilt	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Compatible	Not Applicable	Not Applicable
125mm Rotary	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Compatible	Not Applicable