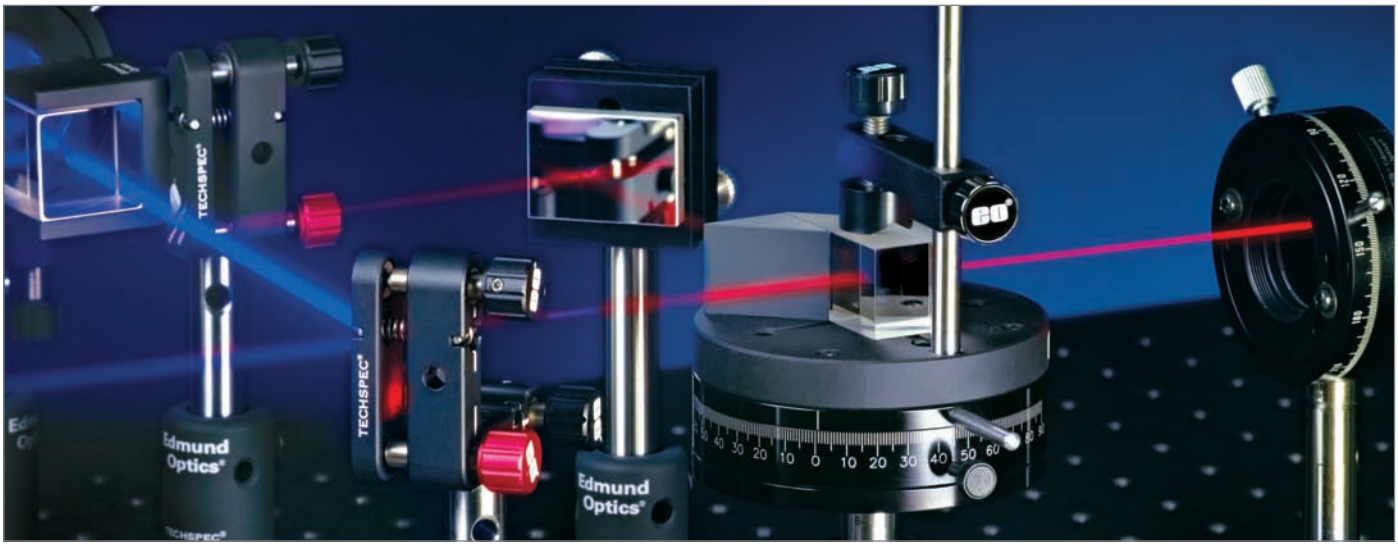
TECHSPEC® MECHANICS

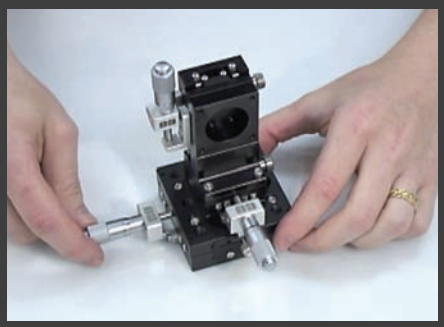
- Wide Selection of Opto-Mechanical Components
- Downloadable 2D & 3D Models for Easy Integration
- Available in English & Metric Standards

TECHSPEC® Mechanics are designed, specified, and manufactured by Edmund Optics® and are ideal for Industrial OEMs and researchers alike. The designs have been made with precision, value, and ergonomics in mind. Our component mounting system is designed for prototyping applications. **Full technical specifications available at www.edmundoptics.com/mechanics.**

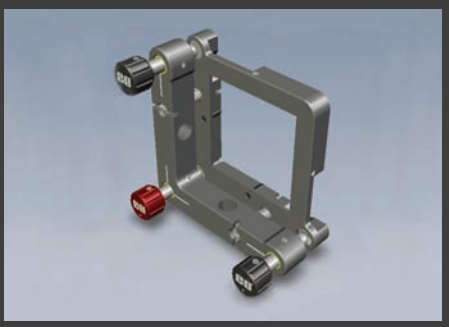


TECHNICAL SUPPORT & ONLINE RESOURCES

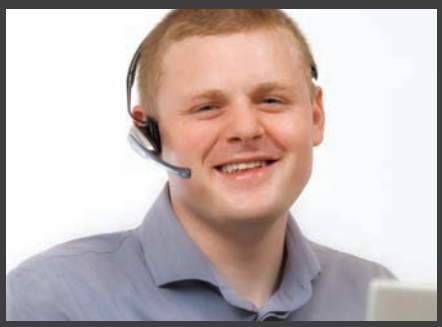
VIDEO RESOURCES



DOWNLOADABLE 2D & 3D DRAWINGS



ONLINE CHAT



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TECHSPEC®
OPTICAL COMPONENT MOUNTING SYSTEM

- Cross Compatible for Easy Integration & Prototyping
- S-Thread, C-Thread and T-Thread Options
- Large Selection of Mounts for a Wide Range of Applications

S-Mount	C-Mount	T-Mount
16mm Barrel Diameter	30mm Barrel Diameter	48mm Barrel Diameter
M12 x 0.5mm Threading	1" x 32 TPI Threading	M42 x 0.75mm Threading

TECHSPEC® SIMPLE/THIN LENS MOUNTS

*Call for Availablility and Pricing **Max Diameter is 12.7mm

Description	Clear Aperture	Accepts Diameter	16mm Barrel / S-Mount		30mm Barrel / C-Mount		48mm Barrel / T-Mount	
			Edge Thickness	Stock No.	Edge Thickness	Stock No.	Edge Thickness	Stock No.
3mm Holder	2.3mm	2.5 - 3.0mm	1 - 3mm	#63-938	1 - 3mm	#54-611	*	*
4mm Holder	3.0mm	4.0 - 4.5mm	1 - 3mm	#63-939	1 - 3mm	#57-972	*	*
5mm Holder	3.8mm	4.5 - 5.0mm	1 - 2.5mm	#63-940	1 - 3mm	#54-612	*	*
6mm Holder	5.2mm	5.5 - 6.0mm	1 - 2.5mm	#63-941	1 - 3mm	#54-613	*	*
6.5mm Holder	4.25mm	6.0 - 6.5mm	*	*	1 - 3mm	#57-973	*	*
9mm Holder	8.0mm	8.5 - 9.0mm	1 - 2.5mm	#63-942	1 - 3mm	#54-614	*	*
10mm Holder	9.0mm	9.5 - 10mm	1 - 2.5mm	#63-943	1 - 3mm	#63-979	*	*
12mm Holder	11.2mm	11.75 - 12.0mm	1 - 2.5mm	#63-944**	1 - 3mm	#54-615	*	*
12.5/12.7mm Holder	12.0mm	12.5 - 13.5mm**	1 - 2.5mm	#63-944**	1 - 3mm	#55-246	2.0 - 5.5mm	#52-933
15mm Holder	13.0mm	14.0 - 15.0mm	*	*	1 - 3mm	#54-616	*	*
18mm Holder	16.0mm	17.0 - 18.0mm	*	*	1 - 3mm	#54-617	*	*
20mm Holder	18.0mm	19.0 - 20.0mm	*	*	1 - 3mm	#54-618	*	*
25/25.4mm Holder	22.0mm	23.0 - 25.4mm	*	*	1 - 3.75mm	#56-353	2.0 - 5.5mm	#52-292
30mm Holder	28.0mm	30mm	*	*	*	*	2.5 - 5.5mm	#57-975
40mm Holder	38.0mm	40mm	*	*	*	*	2.0 - 10.95mm	#57-976

TECHSPEC® ACHROMAT/THICK LENS MOUNT

*Call for Availablility and Pricing **Max Diameter is 12.7mm

Description	Clear Aperture	Accepts Diameter	16mm Barrel / S-Mount		30mm Barrel / C-Mount		48mm Barrel / T-Mount	
			Edge Thickness	Stock No.	Edge Thickness	Stock No.	Edge Thickness	Stock No.
3mm Holder	2.3mm	2.5 - 3.0mm	1 - 3mm	#63-938	1.0 - 10.5mm	#54-620	*	*
5mm Holder	3.0mm	4.5 - 5.0mm	1.0 - 6.5mm	#63-948	1.0 - 6.5mm	#57-974	*	*
6.25mm Holder	5.2mm	5.5 - 6.25mm	2.0 - 6.5mm	#63-949	2.0 - 10.5mm	#54-621	*	*
9mm Holder	8.0mm	8.5 - 9.0mm	2.0 - 6.5mm	#63-950	2.0 - 10.5mm	#54-622	*	*
10mm Holder	9.0mm	9.5 - 10mm	2.0 - 6.5mm	#63-951	2.0 - 10.5mm	#63-980	*	*
12.5/12.7mm Holder	11.2mm	11.75 - 12.7mm	2.0 - 6.5mm	#63-952**	2.0 - 10.5mm	#54-623	5.0 - 15.5mm	#52-954
15mm Holder	13.0mm	14.0 - 15.0mm	*	*	2.5 - 10.5mm	#54-624	*	*
18mm Holder	16.0mm	17.0 - 18.0mm	*	*	2.5 - 10.5mm	#54-625	*	*
20mm Holder	18.0mm	19.0 - 20.0mm	*	*	2.0 - 10.5mm	#54-626	*	*
25/25.4mm Holder	22.0mm	23.0 - 25.4mm	*	*	3.3 - 11.75mm	#56-354	5.0 - 15.5mm	#52-293
30mm Holder	28.0mm	30mm	*	*	*	*	5.0 - 15.5mm	#57-977
40mm Holder	38.0mm	40mm	*	*	*	*	2.0 - 20.95mm	#57-978

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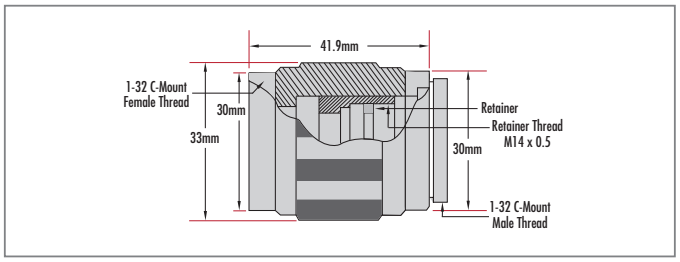
TECHSPEC® HELICOID BARREL MOVEMENT

- Smooth Helical Movement
- Holds 12.5mm Diameter Optics
- 16mm Travel

This TECHSPEC® C-Mount Helicoid barrel has an extended linear travel of 16mm. Designed to hold 12.5mm diameter TECHSPEC® optics ranging in edge thickness from 2mm to 8.75mm. Clear aperture is 10.5mm. Includes retaining ring and position-locking set screws. Inner cell does not rotate while translating. Adds 41.9mm to system length.



C-Mount Helical Movement	#57-649
Helicoid Retainer Ring	#59-240

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DOUBLE THREAD RINGS

FIBER ADAPTERS

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TECHSPEC® HELICOID BARREL MOVEMENT

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TECHSPEC® KINEMATICS

- Fine Adjustment Screw Threads: 100 TPI
- Tip/Tilt Range: ± 5 degrees
- Compatible with English/Metric Standards

EO's family of TECHSPEC® Kinematic Mounts includes both Optical Mounts and Mounting Table Platforms. Each mount features high accuracy adjustment screws in either 2-adjustment screw or 3-adjustment screw versions. 3-screw versions allow for additional translation in the optical axis. Horizontal adapters allow for quick conversion and maximized clear apertures.

Adjustment knobs are removable for Allen key adjustment. Nylon-tipped set-screws are used to easily mount the optical element in place.

Construction materials ensure increased stability and repeatability. Stainless steel inserts are used for all adjustment screw contact surfaces. Specially designed dampening grease for our adjustment screws provides smooth movement. Nylon contact rods and screws ensure your optical components are not chipped. Brass bushings provide long term durability with our stainless steel screws.

KINEMATIC MOUNTS

Angular Tip/Tilt Range:	±5°
Z-Axis Translation Range (3-screw models only):	9mm (for 0.5/1″ & Small), 13mm (for 2″ & Large)
Construction:	Aluminum Plates, Stainless Steel Screws, and Brass Thread Bushings
Linear Resolution:	0.25mm
Angular Resolution (based on 0.25mm turn):	0.4° (for 0.5/1″ & Small Tables), 0.2° (for 2″ & Large Tables)
Sensitivity (based on 1° turn):	4 arcseconds
Thermal Stability:	<5 micro-radian

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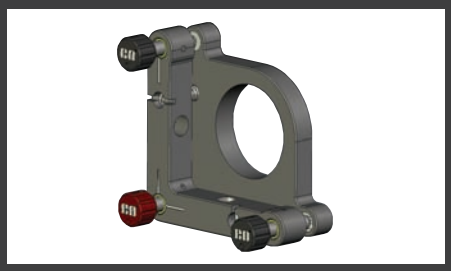
2D & 3D DRAWINGS



CUBE BEAMSPLITTER ADAPTERS

MIRROR / BEAMSPLITTER 45° ADAPTER

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KINEMATIC OPTICAL MOUNTS

Aperture Size		Mount Type	Number of Adjustment Screws	Optic Size Max.	Optic Size Min.	Aperture	Optic Shelf Thickness (Max.)	Min. Optic Thickness	Stock No.
0.5″	(12.5mm)	Circular	2	13.08	12.25	10.9	5.4	1.75	#58-850
1″	(25mm)	Circular	2	25.78	24.75	22.9	5.4	1.75	#58-851
2″	(50mm)	Circular	2	51.18	49.75	45.9	8.0	2.0	#58-852
0.5″	(12.5mm)	Circular	3	13.08	12.25	10.9	5.4	1.75	#58-853
1″	(25mm)	Circular	3	25.78	24.75	22.9	5.4	1.75	#58-854
2″	(50mm)	Circular	3	51.18	49.75	45.9	8.0	2.0	#58-855
0.5″ x 0.5″	(12.5 x 12.5)	Square	2	13.2 x 13.2	12.0 x 12.0	10.9 x 10.9	5.4	1.0	#58-856
1″ x 1″	(25 x 25)	Square	2	25.9 x 25.9	24.5 x 24.5	22.9 x 22.9	5.4	1.0	#58-857
2″ x 2″	(50 x 50)	Square	2	51.3 x 51.3	49.5 x 49.5	45.9 x 45.9	8.0	1.0	#58-858
0.5″ x 0.5″	(12.5 x 12.5)	Square	3	13.2 x 13.2	12.0 x 12.0	10.9 x 10.9	5.4	1.0	#58-859
1″ x 1″	(25 x 25)	Square	3	25.9 x 25.9	24.5 x 24.5	22.9 x 22.9	5.4	1.0	#58-860
2″ x 2″	(50 x 50)	Square	3	51.3 x 51.3	49.5 x 49.5	45.9 x 45.9	8.0	1.0	#58-861
1″ Dia. x 32 TPI		C-Thread	2	25.4*	2.3*	—	—	1 - 3.3	#58-870
42mm Dia. x 0.75mm		T-Thread	2	40*	12.5*	—	—	2 - 5	#58-871
1″ Dia. x 32 TPI		C-Thread	3	25.4*	2.3*	—	—	1 - 3.3	#58-872
42mm Dia. x 0.75mm		T-Thread	3	40*	12.5*	—	—	2 - 5	#58-873
1″	(25mm)	Filter	2	50.8 x 50.8	12.7 x 12.7	less 3.7 x 3.7	3.7	0.5	#58-874
1″ (25mm)	(25mm)	Filter	3	50.8 x 50.8	12.7 x 12.7	less 3.7 x 3.7	3.7	0.5	#58-875

*Requires C-Thread or T-Thread optical cell (sold separately)

KINEMATIC TABLE PLATFORMS

Table Pattern	Mount Type	Number of Adjustment Screws	Optical Centerline	Max Height = Width	Thickness: Plates	Total Thickness	Thickness: Front Plate to C'bore	Stock No.
Blank: No holes	2″ Blank Table	2	25.4	50.8	23.0	38.5	16.6	#58-862
Blank: No holes	3″ Blank Table	2	38.1	76.2	28.4	45.6	22.1	#58-863
Blank: No holes	2″ Blank Table	3	25.4	50.8	23.0	38.5	16.6	#58-864
Blank: No holes	3″ Blank Table	3	38.1	76.2	28.4	45.6	22.1	#58-865
9 holes on 12.7 centers	2″ ¼-20 Tapped Table	3	25.4	50.8	23.0	38.5	16.6	#58-866
23 holes on 12.7 centers	3″ ¼-20 Tapped Table	3	38.1	76.2	28.4	45.6	22.1	#58-867
9 holes on 12.5 centers	2″ M6 x 1 Tapped Table	3	25.4	50.8	23.0	38.5	16.6	#58-868
23 holes on 12.5 centers	3″ M6 x 1 Tapped Table	3	38.1	76.2	28.4	45.6	22.1	#58-869

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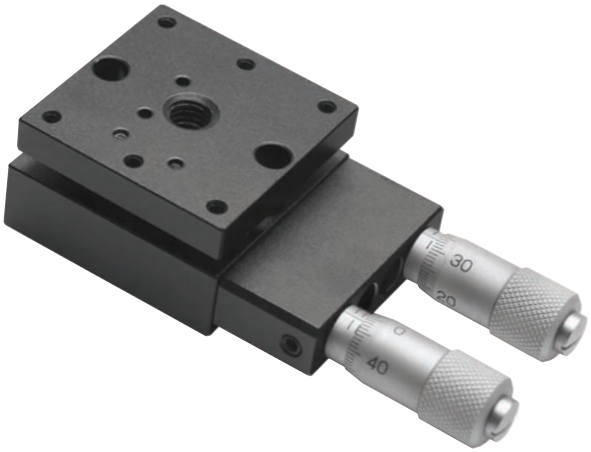
TECHSPEC® TIP–TILT STAGES



- Metric & English Hole Pattern Versions Available
- Tilt Control in Two Axes (Kinematic Movement)
- Precision Micrometer Drive

Ideal for tilt control of both optics and mounting posts. Our new Tilt Stages are available in four different stage sizes from 30mm square to 125mm square. Each size is available in both Metric or English hole pattern versions and features precision micrometer movement. Bottom adapter plate, sold separately, is required for mounting 30mm and 40mm stages to a standard breadboard (70mm and 125mm stages will mount directly to the board). **Please visit our website for additional information or contact techsup@edmundoptics.com.**

Stage Size	Hole Pattern	Drive	Travel	Resolution (Typical)	Load Capacity	Weight	Stock No.
30 x 30mm	English	Micrometer	±3°	115 arcsec	2kg	0.06kg	#66-541
30 x 30mm	Metric	Micrometer	±3°	115 arcsec	2kg	0.06kg	#66-543
40 x 40mm	English	Micrometer	±3°	74 arcsec	2kg	0.15kg	#66-545
40 x 40mm	Metric	Micrometer	±3°	74 arcsec	2kg	0.15kg	#66-547
70 x 70mm	English	Micrometer	±3°	53 arcsec	3kg	0.35kg	#66-549
70 x 70mm	Metric	Micrometer	±3°	53 arcsec	3kg	0.35kg	#66-551
125 x 125mm	English	Micrometer	±2°	24 arcsec	4kg	0.8kg	#66-553
125 x 125mm	Metric	Micrometer	±2°	24 arcsec	4kg	0.8kg	#66-555

TECHSPEC® GONIOMETERS

- Metric & English Hole Pattern Available
- Stackable for Two-Axis Rotation
- Available in 30mm, 40mm & 70mm Sizes

Goniometers allow for precise angular adjustment of an object about a fixed point located above the center of the mounting surface. They provide true tip and tilt adjustment of any optical component and are often used to accurately direct lasers and align mirrors in beam steering applications. Each size is offered in several radii of movement for easy stacking in a two axes configuration. Stages with a smaller radius can be mounted on top of same size stages with a larger radius to provide motion about a common point in two different axes. **Please visit our website for additional information.**

Dimensions			Resolution	Load Capacity	Weight	English Hole Pattern	Metric Hole Pattern
Stage Size	Radius	Travel				Stock No.	Stock No.
30 x 30mm	40mm	±15°	5 arcmin	2kg	0.15kg	#66-520	#66-523
	60mm	±10°	5 arcmin	2kg	0.15kg	#66-521	#66-524
	82mm	±7.5°	10 arcmin	2kg	0.15kg	#66-522	#66-525
40 x 40mm	60mm	±10°	5 arcmin	3kg	0.3kg	#66-526	#66-529
	82mm	±10°	5 arcmin	3kg	0.3kg	#66-527	#66-530
	106mm	±7.5°	10 arcmin	3kg	0.3kg	#66-528	#66-531
70 x 70mm	120mm	±10°	5 arcmin	6kg	0.3kg	#66-532	#66-535
	150mm	±10°	5 arcmin	6kg	0.3kg	#66-533	#66-536
	180mm	±8°	5 arcmin	6kg	0.3kg	#66-534	#66-537

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TECHSPEC® ROTARY STAGES

- Precision Micrometer Drive
- 360° Coarse Rotation, ±5° Total Fine Rotation
- Class 100 (ISO 5) Cleanroom Compatible

TECHSPEC® Rotary Stages provide smooth coarse rotary movement and feature a precision micrometer drive for fine adjustment. This allows for quick rotation over 360° travel and precise angular adjustment at any position. The stage position can be fixed using the locking mechanism. Each stage is available in English or Metric standards. Bottom adapter plate, sold separately, is required for mounting 30mm and 40mm stages to a standard breadboard (70mm and 125mm stages will mount directly to the board). **Please visit our website for additional information.**

Top and Bottom Plate:	Aluminum
Guide System:	Slide-Fit
Locking Screw:	Included on all stages
Wobble:	20µm (30µm for 125mm stage)
Scale Resolution:	30mm Stage - 2 Deg
	40mm Stage - 10 arcminutes
	70mm Stage - 10 arcminutes
	125mm Stage - 5 arcminutes

Description	Hole Pattern	Load Capacity	Concentricity	Parallelism	Stock No.
30mm Rotary Stage	English	1kg	20µm	30µm	#66-512
30mm Rotary Stage	Metric	1kg	20µm	30µm	#66-513
40mm Rotary Stage	English	1.5kg	50µm	30µm	#66-514
40mm Rotary Stage	Metric	1.5kg	50µm	30µm	#66-515
70mm Rotary Stage	English	3kg	40µm	40µm	#66-516
70mm Rotary Stage	Metric	3kg	40µm	40µm	#66-517
125mm Rotary Stage	English	5kg	50µm	60µm	#66-518
125mm Rotary Stage	Metric	5kg	50µm	60µm	#66-519

TECHSPEC® VERTICAL TRANSLATION STAGES

- High Accuracy, Stiffness and Load Capacity
- Class 100 (ISO 5) Cleanroom Compatible
- Fine Micrometer Movement

TECHSPEC® Vertical Stages feature unique and advanced crossed-roller bearing guide system providing higher accuracy, rigidness and load capacity. Stages are available in four sizes ranging from 30mm x 30mm to 125mm x 125mm. They are available with micrometer or lead screw in either English or Metric hole patterns. Bottom adapter plate, sold separately, is required to mount 30mm and 40mm stages to a standard breadboard (70mm and 125mm stages will mount directly to the board). **Please visit our website for additional information.**

Top and Bottom Plate:	Aluminum
Guide System:	V-groove guide with Crossed-roller bearing
Straight Line Accuracy:	3µm
Driving Options:	
Micrometer:	0.5mm pitch, 0.01mm division (Metric); 0.025" pitch, 0.001" division (English)
Leadscrew:	0.5mm pitch

Size	Hole Pattern	Drive	Height Adj.	Load Capacity	Stock No.
30 x 30mm	English	Lead Screw	0.2"	1.5kg	#66-494
30 x 30mm	English	Micrometer	0.2"	1.5kg	#66-495
30 x 30mm	Metric	Lead Screw	5mm	1.5kg	#66-496
30 x 30mm	Metric	Micrometer	5mm	1.5kg	#66-497
40 x 40mm	English	Lead Screw	0.4"	2kg	#66-498
40 x 40mm	English	Micrometer	0.4"	2kg	#66-499
40 x 40mm	Metric	Lead Screw	10mm	2kg	#66-500
40 x 40mm	Metric	Micrometer	10mm	2kg	#66-501
70 x 70mm	English	Lead Screw	0.4"	3kg	#66-502
70 x 70mm	English	Micrometer	0.4"	3kg	#66-503
70 x 70mm	Metric	Lead Screw	10mm	3kg	#66-504
70 x 70mm	Metric	Micrometer	10mm	3kg	#66-505
125 x 125mm	English	Lead Screw	0.8"	5kg	#66-506
125 x 125mm	English	Micrometer	0.8"	5kg	#66-508
125 x 125mm	Metric	Lead Screw	20mm	5kg	#66-509
125 x 125mm	Metric	Micrometer	20mm	5kg	#66-511

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TECHSPEC®
CROSSED–ROLLER BEARING SINGLE AXIS TRANSLATION STAGES

TECHSPEC® CROSSED-ROLLER BEARING SINGLE AXIS TRANSLATION STAGES

- High Accuracy, Rigidity and Load Capacity
- 30mm, 40mm, 70mm and 125mm Sizes Available
- Easily Configured into X-Y and X-Y-Z Configurations

TECHSPEC® Precision Linear Bearing Stages feature an advanced crossed-roller bearing guide system providing higher accuracy, rigidity and load capacity. These precision stages offer precise positioning with straight line accuracy of 2µm. These stages are available in four sizes ranging from 30mm x 30mm to 125mm x 125mm with either English or Metric configuration. Stages are solid table top or thru-hole models and feature either center drive or side drive micrometers. Each size is also available pre-assembled in Z-Axis configuration.

Plate Construction:	Aluminum
Guide System:	V-groove guide with Crossed-roller bearing
Straight Line Accu.:	2µm
Pitch:	30 arcsec (up to 25mm (1") travel), 40 arcsec (50mm (2")travel)
Yaw:	25 arcsec (up to 25mm (1") travel), 30 arcsec (50mm (2")travel)
Load Capacity:	3kg (30mm sq.), 4kg (40mm sq.), 8kg (70mm sq.), 20kg (125mm sq.)
Driving Options:	
Micrometer:	0.5mm pitch; 0.01mm division (Metric), 0.001" (English)
Lead Screw:	0.5mm pitch

SOLID-TOP CENTER DRIVE CROSSED-ROLLER BEARING STAGES

*Short Travel option for 30mm Stages

Type	Standard Travel			Extended Travel*	
	Travel	Micrometer	Lead Screw	Travel	Micrometer
30mm English	0.5"	#66-387	#66-386	0.25"	#83-503
30mm Metric	13mm	#66-391	#66-390	6.5mm	#83-505
40mm English	0.5"	#66-403	#66-402	1.0"	#66-404
40mm Metric	13mm	#66-409	#66-408	25mm	#66-410
70mm English	0.5"	#66-427	#66-426	1.0"	#66-428
70mm Metric	13mm	#66-433	#66-432	25mm	#66-434
125mm English	1.0"	#66-451	#66-450	2.0"	#66-452
125mm Metric	25mm	#66-457	#66-456	50mm	#66-458

THRU-HOLE CENTER DRIVE CROSSED-ROLLER BEARING STAGES

*Short Travel option for 30mm Stages

Type	Standard Travel			Extended Travel*	
	Travel	Micrometer	Lead Screw	Travel	Micrometer
30mm English	0.5"	#66-395	#66-394	0.25"	#83-507
30mm Metric	13mm	#66-399	#66-398	6.5mm	#83-509
40mm English	0.5"	#66-415	#66-414	1.0"	#66-416
40mm Metric	13mm	#55-421	#66-420	25mm	#66-422
70mm English	0.5"	#66-439	#66-438	1.0"	#66-440
70mm Metric	13mm	#66-445	#66-444	25mm	#66-446
125mm English	1.0"	#66-463	#66-462	2.0"	#66-464
125mm Metric	25mm	#66-469	#66-468	50mm	#66-470

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