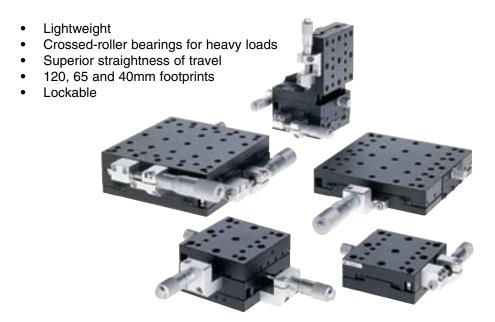
Aluminum Crossed-roller Bearing Stages

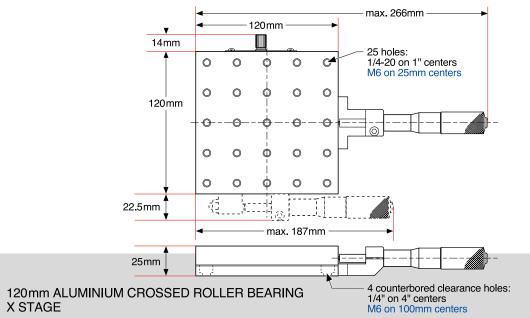


In many manufacturing applications weight is at a premium. Aluminum stages are used when weight needs to be minimized. In order to maintain the required accuracy precision crossed-roller bearings are mounted into the machined aluminum.

Three sizes cover most applications. The 120mm stages are best for heavy load applications. While the 65mm size is ideal for most general equipment applications. A 40mm range provides more compact mounting for use in instruments where space is at a premium. All sizes have inch or metric hole patterns which enable them to be built as compactly as possible. Travel is listed in the table on page 381 for each stage but can be extended slightly beyond this range if necessary.

120mm Aluminum Crossed Roller Stages

Part No. 123-0410/0415/0420/0425



Steel Extended Contact Bearing Stages

Steel Extended Contact Bearing Stages

Aluminum Stage

Rotation Stages

Goniometers

Rack & Pinion Dovetail Stages

Preset Dovetail Stages

Leadscrew Slides

Tilt Platforms

OEM Slides

Accessories

Crossed-roller bearings provide a high degree of linearity combined with a high load bearing capacity.

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Steel Extended Contact Bearing Stages

Stainless Steel Extended Contact Bearing Stages

Aluminum Stages

Rotation Stages

Goniometers

Rack & Pinion Dovetail Stages

Preset Dovetail Stages

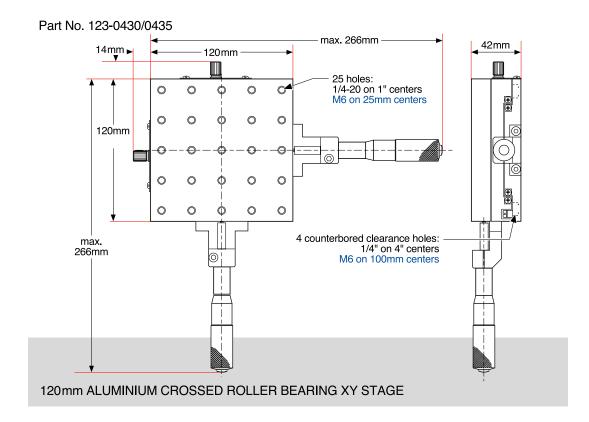
Leadscrew Slides

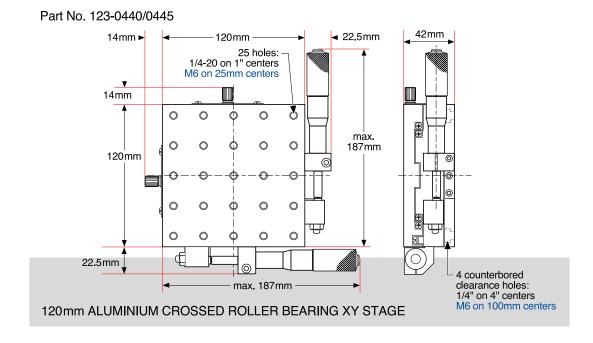
Tilt Platforms

OEM Slides

Accessories

65mm Aluminum Crossed Roller Stages





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Steel Extended Contact Bearing Stages Steel Extended Contact Bearing Stages

> Rotation Stages Goniometers

> Rack & Pinion Dovetail Stages

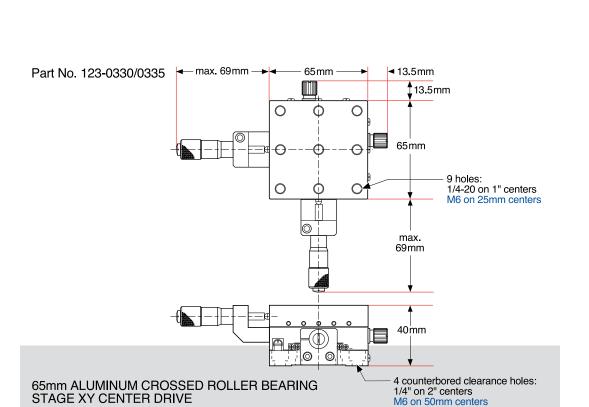
Preset Dovetail Stages

Leadscrew Slides
Tilt Platforms

OEM Slides Accessories

65mm Aluminum Crossed Roller Stages

max. 132mm Part No. 123-0310/0315/0320/0325 65mm 13.5mm 0 0 Φ 65mm 0 0 Φ 0 9 holes: 1/4-20 on 1" centers M6 on 25mm centers 21_{mm} max. 93mm 25mm 4 counterbored clearance holes: 65mm ALUMINUM CROSSED ROLLER BEARING 1/4" on 2" centers M6 on 50mm centers STAGE X CENTER & SIDE DRIVE



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Aluminum Stages

Rotation Stages

Goniometers

Rack & Pinion Dovetail Stages

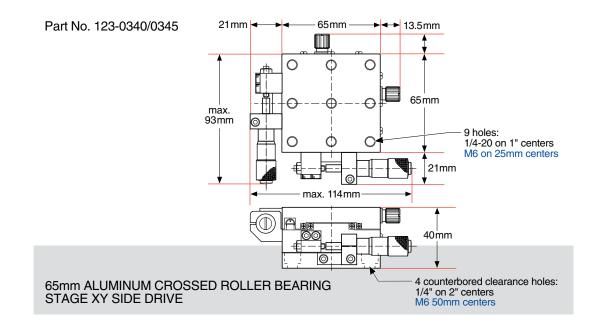
Preset Dovetail Stages

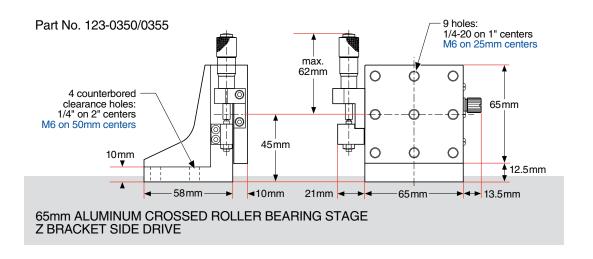
Leadscrew Slides

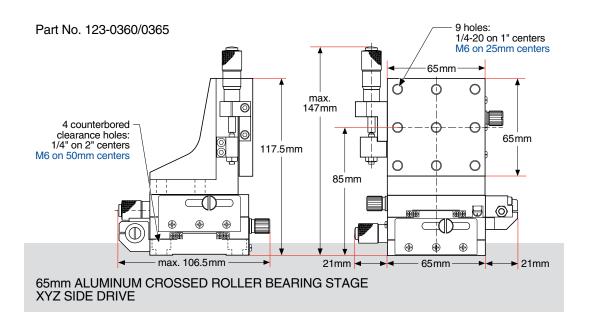
Tilt Platforms

OEM Slides

Accessories







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Steel Extended Contact Bearing Stages

Steel Extended

Rotation Stages Goniometers

Rack & Pinion Dovetail Stages

Tilt Platforms

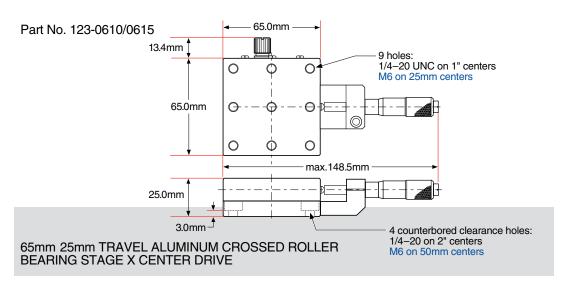
OEM Slides

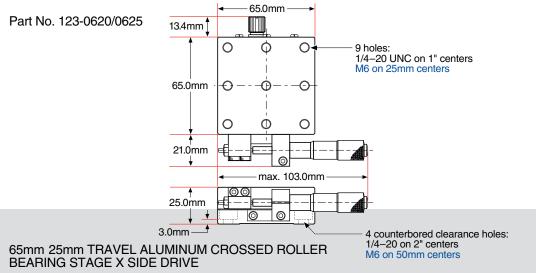
Accessories

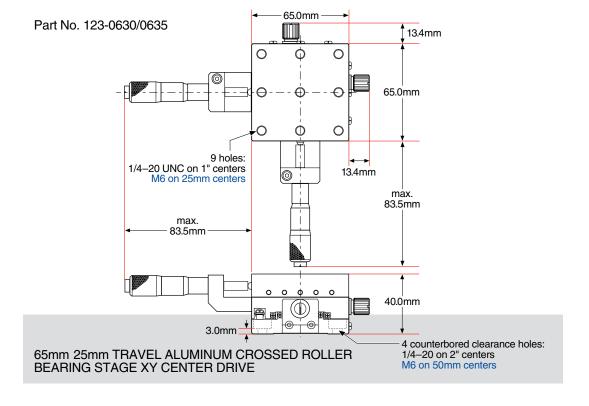
Preset Dovetail Stages

Leadscrew Slides

Contact Bearing Stages







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Steel Extended Contact Bearing Stages

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Aluminum Stages

Rotation Stages

Goniometers

Rack & Pinion Dovetail Stages

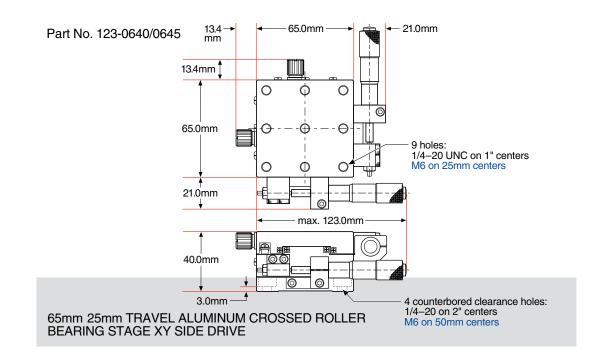
Preset Dovetail Stages

Leadscrew Slides

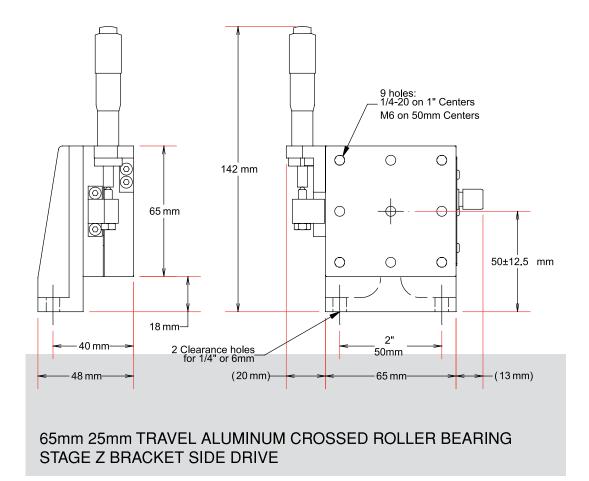
Tilt Platforms

OEM Slides

Accessories



Part No. 122-0660/0665



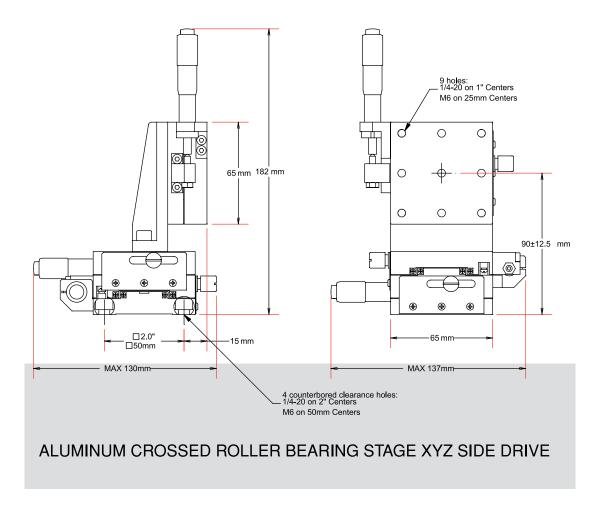
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Part No. 123-0680/0685



Steel Extended Contact Bearing Stages

Rotation Stages

Goniometers

Steel Extended Contact Bearing Stages

> Rack & Pinion Dovetail Stages

Preset Dovetail Stages

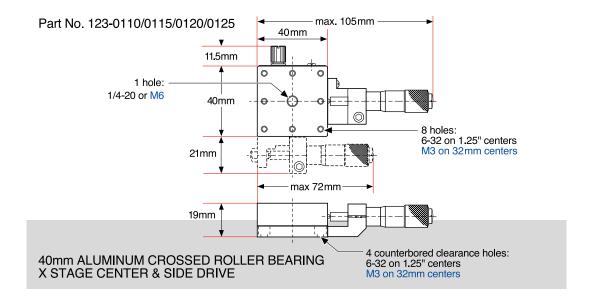
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Tilt Platforms

0EM Slides

Accessories

40mm Aluminum Crossed Roller Stages



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Stainless Steel Extended Contact Bearing Stages

Aluminum Stages

Rotation Stages

Goniometers

Rack & Pinion Dovetail Stages

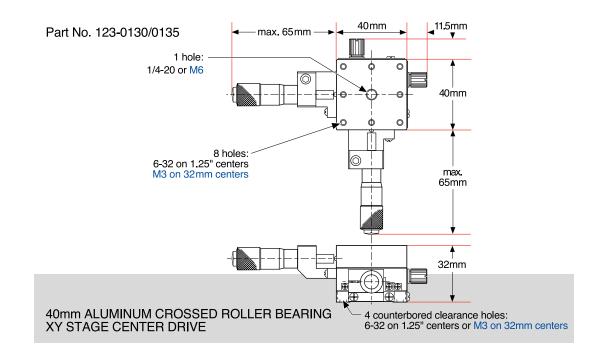
Preset Dovetail Stages

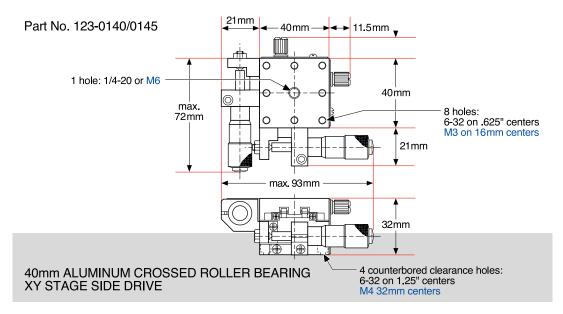
Leadscrew Slides

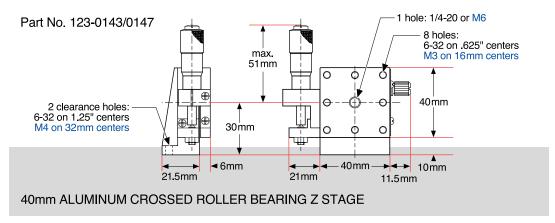
Tilt Platforms

OEM Slides

Accessories







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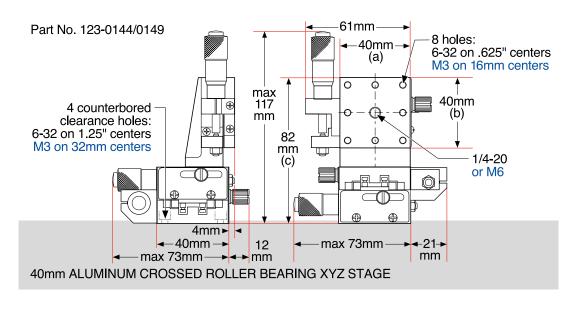
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Steel Extended Contact Bearing Stages

Steel Extended Contact Bearing Stages

Aluminum Stages

Rotation Stages

Goniometers

Rack & Pinion Dovetail Stages

Preset Dovetail Stages

METRIC

Leadscrew Slides

Tilt Platforms

OEM Slides

Accessories

Specifications & Tolerances

Dimensions: ± 0.2 mm Straightness: $3\mu m$ Pitch: <25arcsec Yaw: <15arcsec Micrometer sensitivity: $10\mu m$ Material: Aluminum Position Resolution: $3\mu m$ Finish: Black anodized

Aluminum (Crossed-Rollei	r Bearing Stages
------------	----------------	------------------

Aluminum Crossed-homer bearing Stages						INCH	MEIRIC	
Dimensions a x b Height (mm)	Height (mm)	Axes of Travel	Travel (mm)	Micrometer Position	Load Capacity (kg)	Price	PART NUMBER	PART NUMBER
							1	l
120 x 120	25.0	X	±20	Center	18		123-0410	123-0415
120 x 120	25.0	X	±20	Side	18		123-0420	123-0425
120 x 120	42.0	XY	±20	Center	18		123-0430	123-0435
120 x 120	42.0	XY	±20	Side	18		123-0440	123-0445
					_			
65 x 65	25.0	X	±6.5	Center	6		123-0310	123-0315
65 x 65	25.0	X	±6.5	Side	6		123-0320	123-0325
65 x 65	40.0	XY	±6.5	Center	6 6		123-0330	123-0335
65 x 65	40.0	XY	±6.5	Side	6		123-0340	123-0345
65 x 65	77.5	Z	±6.5	Bracket Side	2 2		123-0350	123-0355
65 x 65	117.5	XYZ	±6.5	Side	2		123-0360	123-0365
65 x 65	25.0	X	±12.5	Center	6 6		123-0610	123-0615
65 x 65	25.0	X	±12.5	Side	6		123-0620	123-0625
65 x 65	40.0	XY	±12.5	Center	6 6		123-0630	123-0635
65 x 65	40.0	XY	±12.5	Side	6		123-0640	123-0645
65 x 65	77.5	Z	±12.5	Bracket Side	2 2		123-0660	123-0665
65 x 65	122.5	XYZ	±12.5	Side	2		123-0680	123-0685
40 x 40	19.0	X	±6.5	Center	2		123-0110	123-0115
40 x 40	19.0	X	±6.5	Side	2		123-0120	123-0125
40 x 40	32.0	XY	±6.5	Center	2 2 2 2		123-0130	123-0135
40 x 40	32.0	XY	±6.5	Side	2		123-0140	123-0145
40 x 40	50.0	Z	±6.5	Bracket Side	1		123-0143	123-0147
40 x 40	108.0	XYZ	±6.5	Side	1		123-0144	123-0149

Side micrometers are normally mounted on the left hand side of the stage. For right hand mounted micrometers append -R.