Steel Extended Contact Bearing Stages

Stainless Steel Extended Contact Bearing Stages

Aluminum Stages

Rotation Stages

Goniometers

Rack & Pinion Dovetail Stage

Preset Dovetail Stages

Leadscrew Slides

Tilt Platforms

OEM Slides

Accessories

Dovetail stages are so called because of the cross sectional shape of the slide.

They have been used for many years as a simple and accurate form of linear bearing.

ORDERING
&
TECHNICAL SUPPORT
(949) 851-5881
FAX (949) 851-5058
E-MAIL
sales@optosigma.com



WEB www.optosigma.com

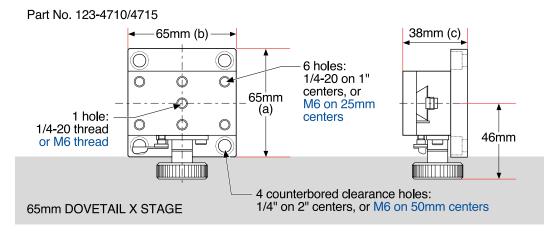
Rack and Pinion Dovetail Stages

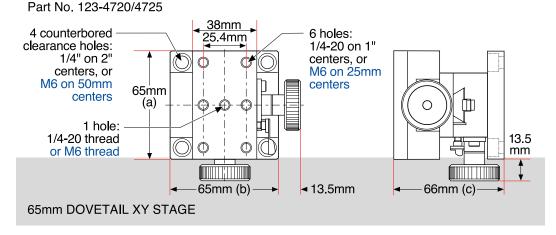
- · Long, fast travel
- Rack & pinion drive
- Ideal for focus and field adjustment
- 65 and 25mm sizes provide up to 130mm of travel
- 1/4-20 (M6) hole pattern
- Lockable

When longer ranges of travel are required conventional stages may not be sufficient. For imaging applications it is often necessary to scan a detector over the field and focus volume of image space. These, long travel, dovetail stages provide the perfect solution. They may be driven by rack and pinion over a large distance without losing their alignment. The coarse drive enables rapid positioning of the stage. Once set in position the stage may be locked by means of a clamp lever so it will not move. If it is required to provide fine movement our conventional stages have compatible mounting holes and can be attached to

these stages. The 65mm stages are compatible with 1/4inch or M6, industry standard, mounting patterns and are offered as X, XY and XYZ stages. The 25mm stages are compatible with our mini-system and are offered as linear stages of various travel ranges.

65mm Rack and Pinion Stages





Steel Extended Contact Bearing Stages

Steel Extended

Aluminum Stages

Rotation Stages

Goniometers

Contact Bearing Stages

Preset Dovetail Stages

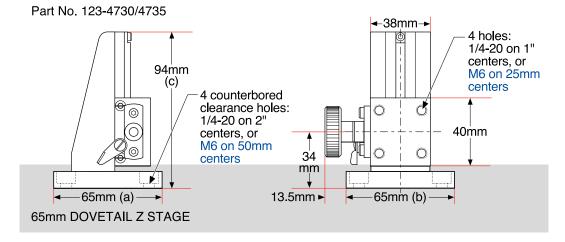
Leadscrew Slides

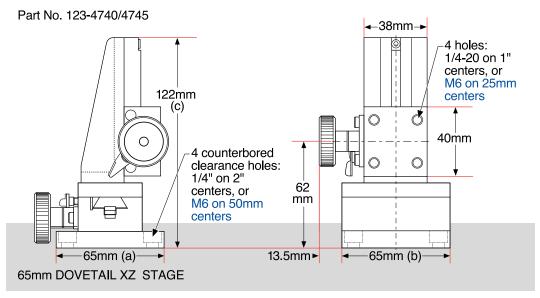
Tilt Platforms

OEM Slides

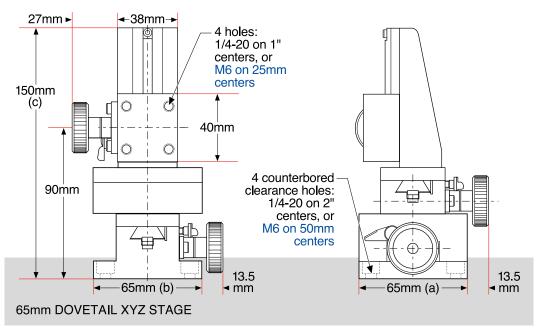
Accessories

65mm Rack and Pinion Stages





Part No. 123-4750/4755



ORDERING
&
TECHNICAL SUPPORT
(949) 851-5881
FAX (949) 851-5058
E-MAIL
sales@optosigma.com
WEB
www.optosigma.com



MANUAL POSITIONERS

Steel Extended Contact Bearing Stages

Stainless Steel Extended Contact Bearing Stages

Aluminum Stages

Rotation Stages

Goniometers

Rack & Pinion Dovetail Stages

Preset Dovetail Stages

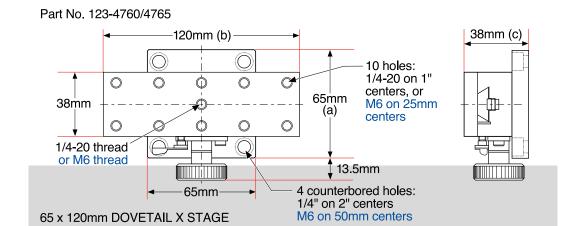
Leadscrew Slides

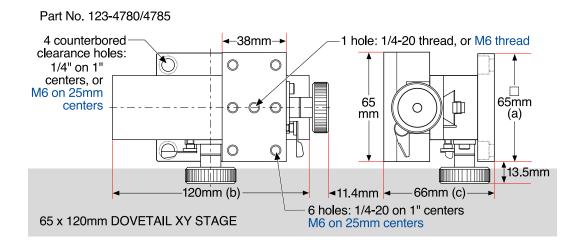
Tilt Platforms

OEM Slides

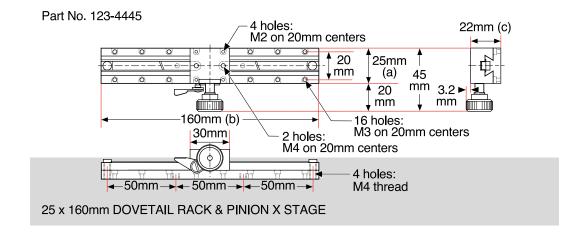
Accessories

65mm Rack and Pinion Stages





25mm Rack and Pinion Stages





ORDERING

TECHNICAL SUPPORT

www.optosigma.com

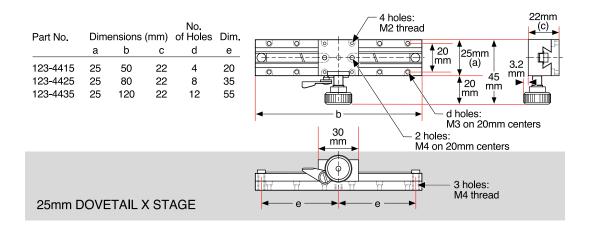


Steel Extended Contact Bearing Stages Steel Extended Contact Bearing Stages Aluminum Stages

Rotation Stages

Goniometers

25mm Rack and Pinion Stages



Specifications & Tolerances

Dimensions: ±0.2mm

Finish: Black anodized and black chrome

Adjustment: 20mm/turn Sensitivity: 100μm, 0.1mm

Yaw: <30arcsec

Material: Aluminum and brass

Pitch: <1arcmin

Straightness: 20µm, 65mm stages

 $30\mu m$, 120mm stages $20\mu m$, 50mm stage $30\mu m$, 80mm stage $40\mu m$, 120mm stage $50\mu m$, 160mm stage

Rack and Pinion Dovetail Stages

		= 				
	otion	Travel (mm)	Load Capacity (kg)	Price	PART NUMBER	PART NUMBER
8	x	30	7.5		123-4710	123-4715
-	* *					123-4725
-	Z	45	2.5		123-4730	123-4735
22	XZ	30x45	2.5		123-4740	123-4745
50	XYZ	30x30x45	2.5		123-4750	123-4755
8	Х	80	5.0		123-4760	123-4765
6	XY	80x30	5.0		123-4780	123-4785
2	Х	20	1.5		-	123-4415
2	Χ	50	1.5		-	123-4425
2	X	90	1.5		-	123-4435
2	X	130	1.5		-	123-4445
	8 6 4 22	8 X 6 XY 4 Z 22 XZ 50 XYZ 8 X 6 XY	m) (mm) 8	ht, c m) Motion Travel (mm) Capacity (kg) 8 X 30 7.5 6 XY 30x30 7.5 4 Z 45 2.5 22 XZ 30x45 2.5 50 XYZ 30x30x45 2.5 8 X 80 5.0 6 XY 80x30 5.0 2 X 20 1.5 2 X 50 1.5 2 X 90 1.5	nt, c m) Motion Travel (mm) Capacity (kg) Price 8 X 30 7.5 66 XY 30x30 7.5 4 Z 45 2.5 22 XZ 30x45 2.5 50 XYZ 30x30x45 2.5 8 X 80 5.0 6 XY 80x30 5.0 2 X 20 1.5 2 X 50 1.5 2 X 90 1.5	nt, c m) Motion Travel (mm) Capacity (kg) Price PART NUMBER 8 X 30 7.5 123-4710 66 XY 30x30 7.5 123-4720 4 Z 45 2.5 123-4730 22 XZ 30x45 2.5 123-4740 50 XYZ 30x30x45 2.5 123-4750 8 X 80 5.0 123-4760 6 XY 80x30 5.0 123-4780 2 X 20 1.5 - 2 X 50 1.5 - 2 X 90 1.5 -

ORDERING
&
TECHNICAL SUPPORT
(949) 851-5881
FAX (949) 851-5058
E-MAIL
sales@optosigma.com
WEB
www.optosigma.com

> OptoSigma®

METRIC

INCH