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Find the *Newport DS40-XY* at our website: *Click HERE*

Industrial Dove-Tail Aluminum Linear Stages

The DS Series Compact Dovetail Linear Stages are an even more compact version of the MT Dovetail series stages utilizing the same mechanism, in a cube-like package, driven by a hex-turned screw and are available with two sets of travel ranges.

- Dovetail slide bearings for smooth motion over < 0.5 in. travel
- Compact footprint measuring only 1 in. on each side
- Precise, 1 µm step control with hex-driven, 80 TPI screw
- Stage locks in place for secure hold over long lifetimes
- Available in LaserClean™ versions

See All Features



Compare	Model	Availability	Price
	**DS25-X** Manual Linear Stage, Compact, Dovetail, 0.25 in., 0.98x0.98 x 0.59 in.	In Stock	$107
	**DS25-XY** XY Linear Stage, Compact, Dovetail, 0.25 in., 0.98 x 0.98 x 1.02 inch	In Stock	$180
	**DS25-XYZ** XYZ Linear Stage, Dovetail, 0.25 in. XY, .12 in. Z, 0.98 x 0.98 in.	In Stock	$317
	DS25-Z Vertical Linear Stage, Compact, Dovetail, 0.12 in., 0.98x0.98 x 0.91 in.	In Stock	$159
	**DS40-X** Manual Linear Stage, Dovetail, 0.55 in. Travel, 1.57 x 1.57 in.	In Stock	$142
	**DS40-XY** XY Linear Stage, Dovetail, 0.55 in. Travel, 1.57 x 1.57 in.	In Stock	$219

Notes:

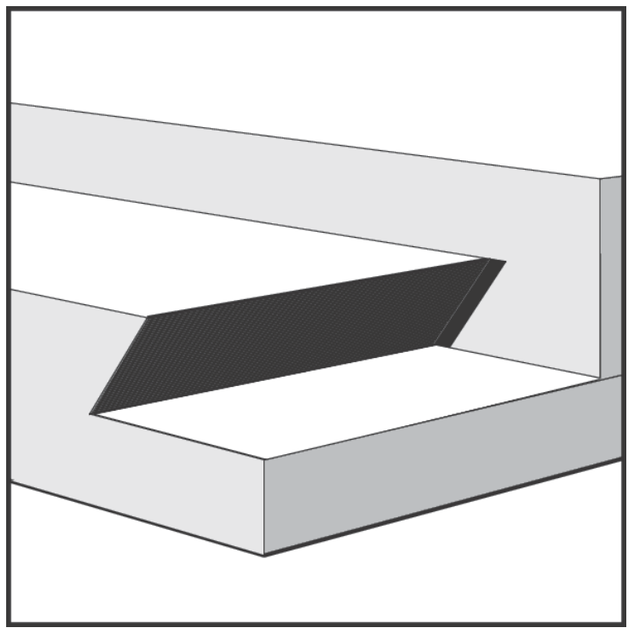
80 TPI adjustment screws are included with these stages. We also offer Left Handed and Laser Clean versions.

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Features

Dovetail Slide Bearings for Smooth Motion in a Compact Size

Dovetail stages are ideal for small, controlled travel to eventually remain locked in place for long time periods. These further compact version of the MT Dovetail stages also do not employ typical roller bearings of cylindrical rails, which makes them less susceptible to shock and vibration. These DS series dovetail stages slide along precision preloaded dovetail slides, whose unique shape ensures accurate, repeatable motion. These compact, modular stages are available in X, XY, or XYZ configurations with a lower footprint than the MT Dovetail series for the DS25 version.





Precise, 1 µm Step Control With Secure Hold Over Long Lifetimes

Each stage come equipped with an 80 TPI hex-driven drive screw for precision positioning of 1 µm while maintaining a low footprint. The motion can then be locked in place using an additional hex-screw controlled locking mechanism that insures placement over long times.



LaserClean™ Low VOC Versions Available

Many laser-based applications require extra care to reduce volatile organic compounds (VOC) and ensure added cleanliness. VOCs and other contaminates can deposit on to optical surfaces causing degradation in output power, beam quality, and wavelength. Newport now offers certain Opto-Mechanical components that are specially prepared with clear anodize, nickel plating or stainless steel materials, special lubrication and vacuum-level cleaning. Products are packaged in Class 1000 (ISO 6) cleanroom grade bagging material and then double-bagged for further cleanliness precautions. We call these products, LaserClean™ and designate them with a -LC suffix. For more information please visit LaserClean Low VOC Optical Components Page.

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XYZ Linear Stage, Dovetail, 0.55 in XY, .20 in Z, 1.57 x 1.57 in.



Overview

The DS40-XYZ Compact Dovetail Linear Stage is preferred for small 0.55 inch XYZ travel applications where set, lock, and forget is required. It is much less susceptible to shock and vibration than bearing stages. This DS series dovetail stage incorporates precision preloaded dovetail slides with an 80 TPI drive screw for precision positioning, hex head adjustment for tamper resistance, and an integral locking mechanism for high stability. The compact 1.57 x 1.57 x 2.56 inch size and critical features of this stage makes it ideal for OEM applications. The modularity allows reconfiguration for research applications.
Slotted base plates are available for mounting these stages to an optical table hole pattern.

Technical Specs

Axes of Travel	X, Y, Z	**Drive Location**	Center drive
Maximum Stage Travel	14 mm	**Platform Size**	40 x 40 mm
Thread Type	6-32 and 1/4-20	**Sensitivity**	1 µm
Load Capacity	36 N	**Recommended Actuators**	Included
Material	Aluminum		
Bearings	Dovetail Slide		

Related Products

Customers Who Bought This Item Also Bought

Compare	Description	Drawings, CAD & Specs	Avail.	Price
	B-2B Base Plate, Slotted, 25 or 40 mm to 65 mm Stage, 1.1 in. Range		In Stock	$39
	SA2-04X12 Optical Breadboard Plate, Solid Aluminum, 4 x 12 in., 1/4-20 Hole Grid		In Stock	$69
	423 Linear Stage, High-Performance, Low-Profile, 1.0 in. Travel, 1/4-20		In Stock	$271
	SA2-11-D Optical Breadboard Plate, Solid Aluminum, 12 x 12 in., 1/4-20, Double Density		In Stock	$205
	MT-XYZ XYZ Linear Stage, Compact, Dovetail, 0.375 in. Travel, 3 lb., 8-32		In Stock	$314
	DS40-Z Manual Vertical Stage, Dovetail, 0.20 in. Travel, 1.57 x 1.57 in.		In Stock	$186

Similar

Compare	Description	Drawings, CAD & Specs	Avail.	Price
	TSX-1D Dovetail Linear Stage, 1.0 in. Travel, Fast-drive 20 TPI Screw, 1/4-20 Threads		In Stock	$180
	DS40-X Manual Linear Stage, Dovetail, 0.55 in. Travel, 1.57 x 1.57 in.		In Stock	$142

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