

56 Sparta Avenue • Newton, New Jersey 07860
 (973) 300-3000 Sales • (973) 300-3600 Fax
 www.thorlabs.com



DT25A - May 20, 2015

Item # DT25A was discontinued on May 20, 2015. For informational purposes, this is a copy of the website content at that time and is valid only for the stated product.

1" (25 MM) TRAVEL DOVETAIL STAGES

- ▶ **Modular, Compact Design**
- ▶ **Lockable Platform**
- ▶ **Rapid, Smooth Positioning**

Application Idea
 XY Configuration
 Using Two DT25 Stages



Four 1/4"-20 (M6)
 Counterbores



DT25



May also be Mounted
 Using CL6 Clamps
 (Sold Separately)



DT25A Riser Plate
 Sold Separately

[Hide Overview](#)

OVERVIEW

The DT25(M) dovetail translation stage is an entry-level positioner for use in general purpose positioning applications. It provides a travel range of 1" (25 mm), with 1 mm (0.04") travel per revolution of the adjuster. The design uses a precision-rolled M6 x 1.0 mm pitch leadscrew for smooth linear positioning along the entire range of travel. The moving platform is lockable via a side-located screw to guard against accidental movement.

The stage can be bolted directly to the optical table, or it can be secured using four CL6 clamps (two on each side) as shown in the image above. The DT25A base plate can be used to create extra space between the mounting surface and the DT25. The dowel pins included in the purchase of each DT25(M) stage can be used to ensure that the DT25A base plate is squarely positioned under the stage.

XY Configuration

The modular design allows two DT25 or two DT25(M) dovetail translation stages to be assembled into a 2-axis dovetail translation stage. Dowels are included with the purchase of each DT25(M) so that perpendicularity between the two translation directions is maintained when constructing XY configurations. Since there are drive adjustment knobs on either end of the stage, we do not recommend it for Z-axis translation.

Item #	DT25	DT25/M
Travel Range	1"	25 mm
Mounting Holes	1/4"-20, 13 Places	M6, 13 Places
Maximum Load	5.0 lbs (2.4 kg)	
Actuator Travel	0.04" (1.0 mm) per revolution	
Construction	Aluminum with Precision Steel Leadscrew	
Dimensions (including actuator)	2.95" x 4.81" x 0.77" (75.0 x 122.2 x 19.5 mm)	

Dovetail Translation Stages
1/2" (12.7 mm) Travel
1" (25 mm) Travel

[Hide 1" \(25 mm\) Linear Dovetail Translation Stage](#)

1" (25 mm) Linear Dovetail Translation Stage



- 1/4"-20 (M6) Mounting Holes in 13 Places
- Bottom Side Relief Cuts Increases Stability on Supporting Surface
- Included Dowels Allow Stacking of 2 Stages in an XY Configuration

Part Number	Description	Price	Availability
DT25	1" Dovetail Translation Stage, 1/4"-20 Taps	\$148.00	Today
DT25A	Riser Plate for DT25(M), Universal	\$22.00	Today
CL6	Table Clamp, RLA Series Optical Rails	\$5.77	Today
DT25/M	25 mm Dovetail Translation Stage, M6 Taps	\$148.00	Today

Visit the [1" \(25 mm\) Travel Dovetail Stages](http://www.thorlabs.com/newgrouppage9.cfm?objectgroup_id=3011) page for pricing and availability information:

http://www.thorlabs.com/newgrouppage9.cfm?objectgroup_id=3011