

XZ Axis Preset Dovetail Translation Stages

Stage Size 15 x 15 mm / 25 x 25 mm / 40 x 40 mm / 60 x 60 mm / 65 x 65 mm

TASB-4

RoHS

XZ axis translation stages with horizontal top plate.
Space saving design offers compact footprints.
Appropriate for system integration.

- Ideal for system integration where fine alignment is made, the stage is locked, and the system is sealed or closed.
- Multiple square footprints available.
- Minimal protrusions, including the adjustment knob, to fit within tight locations.
- Lockable with the use of a small locking set screw and wrench.

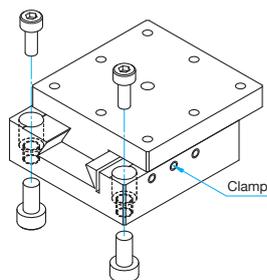


Guide

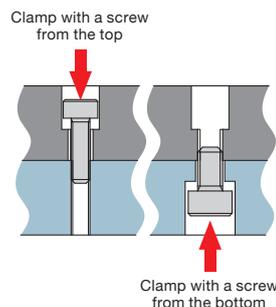
▶ A hex wrench knurled knob and locking wrench are included.



Mounting Method



Detailed Illustration



Top mounting

Tapped holes are used as counterbores because screws are smaller than tapped holes and will go in without any interference.

Bottom mounting

Clamp with screws that match the specification of tapped holes.

About Mounting Holes

The bottom mounting holes of preset stages are tapped holes. These stages allow mounting from the top or the bottom, convenient for securing on optical breadboards or other instruments as well as assembling in systems. Use the screws of the sizes listed in the table on the right for mounting.

Part Number	Secure from the top	Secure from the bottom
TASB-154	M2	M2.6
TASB-254	M2	M3
TASB-404	M3	M4
TASB-404UU	6-32UNC	—
TASB-604	M4	M5
TASB-654-M6	M6	M8
TASB-654UU	1/4-20UNC	5/16-18UNC

* When mounting from the top surface, slide the top surface to insert screws in mounting holes.

Specifications

Part Number	METRIC	TASB-154	TASB-254	TASB-404	TASB-604	TASB-654-M6
	INCH	—	—	TASB-404UU	—	TASB-654UU
Stage Size [mm]		15×15	25×25	40×40	60×60	65×65
Axes of Travel		XZ axis				
Travel [mm]		X axis ±2 Z axis +2 / -0	X axis ±3 Z axis +3 / -0	X axis ±7 Z axis +5 / -0	X axis ±10 Z axis +7 / -0	X axis ±12.5 Z axis +7 / -0
Screw Pitch [mm]		0.4	0.5	0.5	0.5	0.5
Guide Method		Dovetail slide method				
Primary Material		Brass				
Finish		Black matte				
Load Capacity [N]		4.9 (0.5kgf)	6.9 (0.7kgf)	29.4 (3.0kgf)	98.1 (10.0kgf)	98.1 (10.0kgf)
Travel Accuracy	Straightness [μm]	30	30	30	30	30
Max. Moment Capacity	Pitch [N·m]	—	0.3	0.5	1.0	1.0
	Roll [N·m]	—	0.3	0.5	1.0	1.0
Moment Stiffness	Pitch [°/N·cm]	—	8.2	5.2	1.1	1.1
	Roll [°/N·cm]	—	5.6	3.1	2.1	2.1
Parallelism [μm]		150	150	150	150	150
Weight [kg]		0.03	0.11	0.4	1.4	1.8

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Crossed Roller

Dovetail

Lapping

V Groove Screw

Others

15 x 15 mm

25 x 25 mm

40 x 40 mm

60 x 60 mm

65 x 65 mm

80 x 80 mm

100 x 100 mm

120 x 120 mm

Others

