Z Axis Preset Dovetail Translation Stages - Footprints

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

TASB-3

RoHS

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15 × 15 mm

25 × 25 mm 40 × 40 mm

60 × 60 mm

65 × 65 mm 80 × 80 mm

100 × 100 mm 120 × 120 mm

Others

V Groove Screw **Ohters**

Z 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.

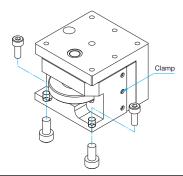


Guide

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



Mounting Method



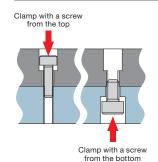
About Mounting Holes

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.

The bottom mounting

Part Number	Secure from the top	Secure from the bottom			
TASB-153	M2	M2.6			
TASB-253	M2	M3			
TASB-403	M3	M4			
TASB-403UU	6-32UNC -				
TASB-603	M4	M5			
TASB-653-M6	M6	M8			
TASB-653UU	1/4-20UNC	5/16-18UNC			

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

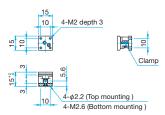
Clamp with screws that match the specification of tapped holes.

Specifications								
Part Number	METRIC	TASB-153	TASB-253	TASB-403	TASB-603	TASB-653-M6		
	INCH	_	_	TASB-403UU	_	TASB-653UU		
Stage Size [mm]		15×15	25×25	40×40	60×60	65×65		
Axes of Travel		Z axis						
Travel [mm]		+2 / -0	+3 / -0	+5 / -0	+7 / -0	+7 / -0		
Screw Pitch [mm]		0.4	0.5	0.5	0.5	0.5		
Guide Method	uide Method Dovetail slide method							
Primary Material		Brass						
Finish		Black matte						
Load Capacity [N]		4.9 (0.5kgf)	6.9 (0.7kgf)	29.4 (3kgf)	98.1 (10kgf)	98.1 (10kgf)		
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]	_	6.1	4.59	0.7	0.7		
Moment Stiffness	Roll ["/N·cm]	_	4.1	2.55	1.7	1.7		
Parallelism [µm]		100	100	100	100	100		
Weight [kg]		0.012	0.05	0.2	0.9	1.1		



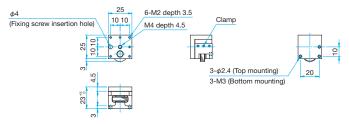
Outline Drawing

TASB-153 📳 Hexagonal socket head cap screw M2×5...4 screws, One 0.89mm hex wrench 💿 Adjustment hole size ϕ 1.8mm, wrench size for Clamp 0.89mm



[Enlarged view of Clamp]

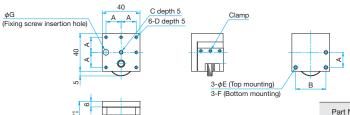
TASB-253 Hexagonal socket head cap screw M2×6...3screws, One 0.89mm hex wrench wrench wrench wrench size for Clamp 0.89mm



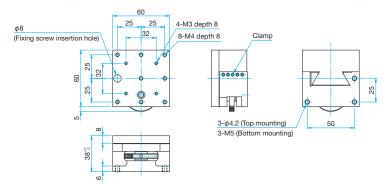
TASB-403/403UU

Hexagonal socket head cap screw M3×8...3 screws, One 1.5mm hex wrench Hexagonal socket head cap screw (stainless steel construction) 6-32UNC×5/16...3 screws, One 1.5mm hex wrench (UU)

wrench size for Clamp 1.5mm hex wrench size for Clamp 1.5mm (UU)

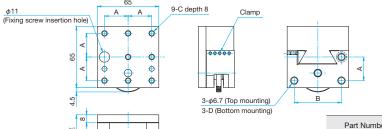


	Part Number	A (mm)	B (mm)	С	D	E (mm)	F	G (mm)
1	TASB-403	16	32	M4	M3	3.3	4-M4	6
7	TASB-403UU	15.875	31.75	8-32UNC	6-32UNC	4		6.5



TASB-653-M6/653UU

| Hexagonal socket head cap screw M6×12...3 screws, One 1.5mm hex wrench for Clamp, One 5mm hex wrench (M6)
| Hexagonal socket head cap screw 1/4-20UNC×1/2...3 screws, One 1.5mm hex wrench for Clamp, One 3/16inch hex wrench (UU)
| hex wrench size for Clamp 1.5mm, hex wrench size 5mm (M6)
| hex wrench size for Clamp 1.5mm, 3/16inch hex wrench (UU)



Part Number	A (mm)	B (mm)	С	D
TASB-653-M6	25	50	M6	M8
TASB-653UU	25.4	50.8	1/4-20UNC	5/16-18UNC

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15 × 15 mm

25 × 25 mm 40 × 40 mm

40 × 40 mm 60 × 60 mm

65 × 65 mm

mm co × c

80 × 80 mm 100 × 100 mm

120 × 120 mm Others