

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

Application Systems

Optics & Optical Coatings

Opto-Mechanics

Bases

Manual Stages

Actuators & Adjusters

Motorized Stages

Light Sources & Laser Safety

Index

Guide

X Axis Stages

XY Axis Stages

Z Axis Stages

XZ Axis Stages

XYZ Axis Stages

Rotation Stages

Goniometer

Tilt Stages

Vacuum

Ball Bearing Guide

Crossed Roller

Dovetail

Lapping

V Groove Screw

Others

15 × 15 mm

25 × 25 mm

40 × 40 mm

60 × 60 mm

65 × 65 mm

80 × 80 mm

100 × 100 mm

120 × 120 mm

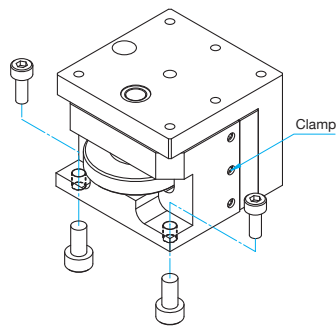
Others

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.



Mounting Method



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.

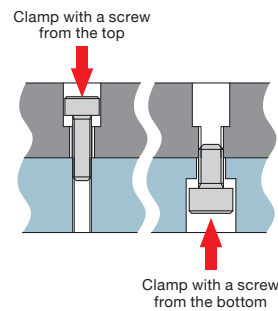
Part Number	Secure from the top	Secure from the bottom
TASB-153	M2	M2.6
TASB-253	M2	M3
TASB-403	M3	M4
TASB-403UU	6-32UNC	—
TASB-603	M4	M5
TASB-653-M6	M6	M8
TASB-653UU	1/4-20UNC	5/16-18UNC

Guide

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



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.

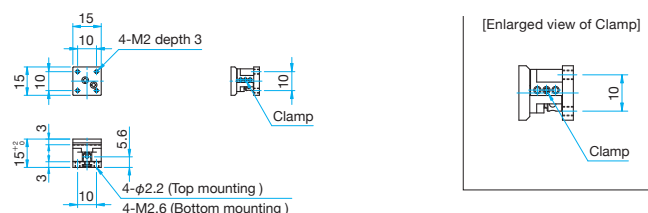
Specifications

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		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
	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
	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

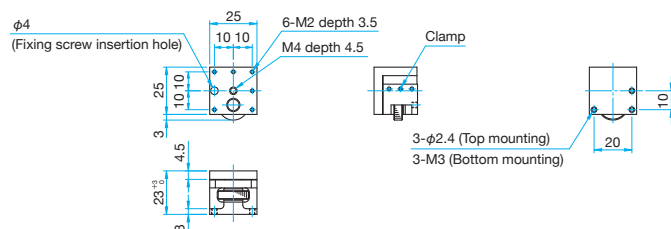


Outline Drawing

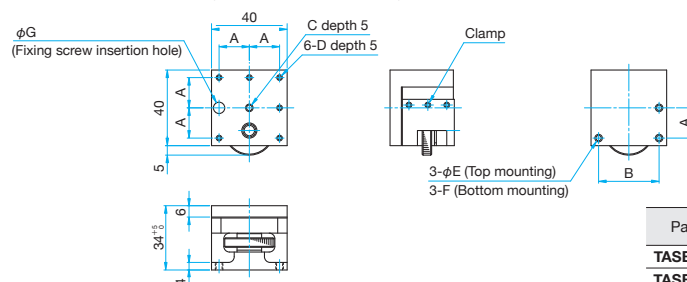
TASB-153 Hexagonal socket head cap screw M2×5...4 screws, One 0.89mm hex wrench Adjustment hole size $\phi 1.8\text{mm}$, wrench size for Clamp 0.89mm



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

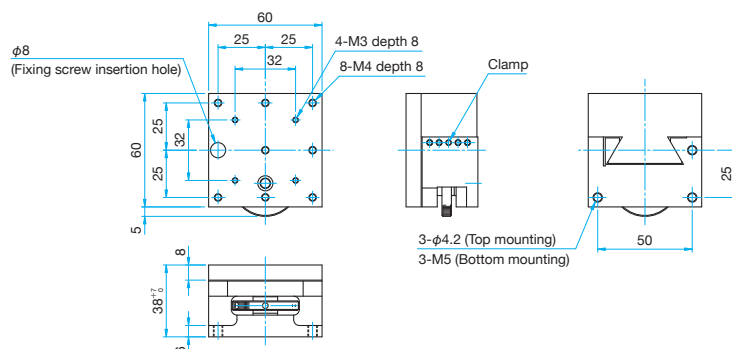


TASB-403/403UU Hexagonal socket head cap screw M3×8...3 screws, One 1.5mm hex wrench wrench size for Clamp 1.5mm
Hexagonal socket head cap screw (stainless steel construction) 6-32UNC×5/16...3 screws, One 1.5mm hex wrench (UU) hex wrench size for Clamp 1.5mm (UU)

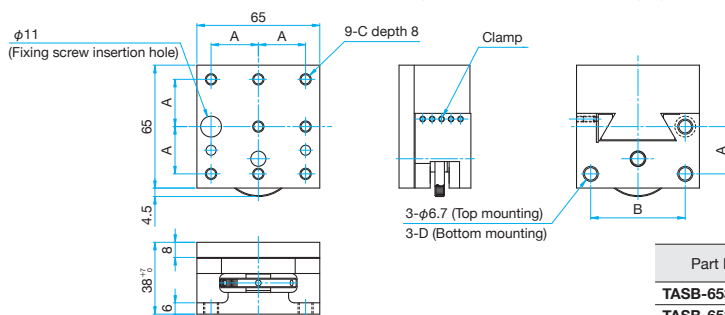


Part Number	A (mm)	B (mm)	C	D	E (mm)	F	G (mm)
TASB-403	16	32	M4	M3	3.3	4-M4	6
TASB-403UU	15.875	31.75	8-32UNC	6-32UNC	4		6.5

TASB-603 Hexagonal socket head cap screw M4×10...3 screws, One 1.5mm hex wrench Adjustment hole size $\phi 3\text{mm}$, wrench size for Clamp 1.5mm



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)	C	D
TASB-653-M6	25	50	M6	M8
TASB-653UU	25.4	50.8	1/4-20UNC	5/16-18UNC

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Index

Guide

X Axis Stages

XY Axis Stages

Z Axis Stages

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