

TASB-5

Application Systems

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Opto-Mechanics

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Crossed Roller

Dovetail

Lapping

V Groove Screw

Ohters

15 × 15 mm 25 × 25 mm 40 × 40 mm

60 × 60 mm 65 × 65 mm

80 × 80 mm 100 x 100 mm 120 x 120 mm Others

XYZ Axis Preset Dovetail Translation Stages Stage Size 15 \times 15 mm / 25 \times 25 mm / 40 \times 40 mm / 60 \times 60 mm / 65 \times 65 mm

RoHS

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

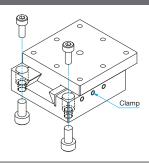
- Ideal for system integration where fine alignment is made, the stage is locked, and the system is sealed or closed.
- Multiple square footprints available.
- Minimal protrusions, including the adjustment knob, to fit within tight locations.
- Lockable with the use of a small locking set screw and wrench.



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



Mounting Method



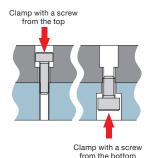
About Mounting Holes

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-155	M2 M2.6			
TASB-255	M2 M3			
TASB-405	M3	M4		
TASB-405UU	6-32UNC	_		
TASB-605	M4	M5		
TASB-655-M6	M6	M8		
TASB-655UU	1/4-20UNC	5/16-18UNC		

^{*} When mounting from the top surface, slide the

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.

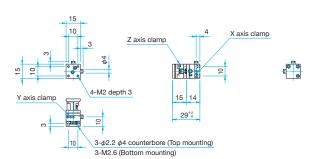
Specification	ıs							
Part Number	METRIC	TASB-155	TASB-255	TASB-405	TASB-605	TASB-655-M6		
	INCH	_	_	TASB-405UU	-	TASB-655UU		
Stage Size [mm]	Stage Size [mm]		25×25	40×40	60×60	65×65		
Axes of Travel		XYZ axis						
Travel [mm]		XY axis ±2 Z axis +2 / -0	XY axis ±3 Z axis +3 / –0	XY axis ±7 Z axis +5 / -0	XY axis ±10 Z axis +7 / –0	XY 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]	-	9.7	5.8	1.5	1.5		
	Roll ["/N·cm]	-	7.7	3.7	2.5	2.5		
Parallelism [µm]		200	200	200	200	200		
Weight [kg]		0.04	0.16	0.53	1.73	2.22		

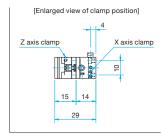




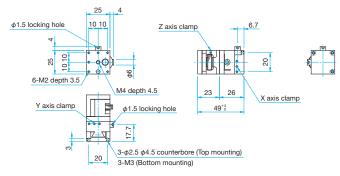
Outline Drawing

TASB-155 Pan head screw M2×5...3 screws, One 2.5mm hex wrench with knob, One 0.89mm hex wrench \upolinity XY axis=Wrench size for adjustment 2.5mm, Z axis=Adjustment hole size ϕ 1.8mm Wrench size for clamp common to XYZ axes=0.89mm



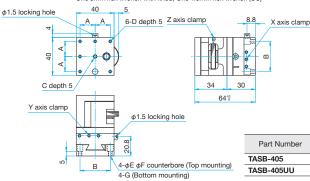


Wrench size for adjustment XY axes=3mm, Wrench size for clamp common to XYZ axes=0.89mm Pan head screw M2×6...3 screws, One 3mm hex wrench with knob, One 0.89mm hex wrench **TASB-255**



Pan head screw M3×8...4 screws, One 3mm hex wrench with knob, One 1.5mm hex wrench
Hexagonal socket head cap screw 6-32UNC×3/8...4 screws,
One 3mm hex wrench with knob, One 1.5mm hex wrench (UU)
Wrench size for adjustment XY axis=3mm,
Wrench size for clamp common to XYZ axes=1.5mm
One 3mm hex wrench with knob, One 1.5mm hex wrench (UU)
One 3mm hex wrench with knob, hex wrench size for clamp common to XYZ axes=1.5mm TASB-405/405UU

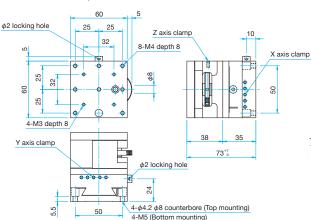
One 3mm hex wrench with knob hex wrench size for clamp 1.5mm (UU)



Part Number	A (mm)	B (mm)	С	D	E (mm)	F (mm)	G
TASB-405	16	32	M4	M3	3.3	6	M4
TASB-405UU	15.875	31.75	8/32UNC	6-32UNC	4	6.5	
IASB-40500	15.875	31./5	8/32UNC	6-32UNC	4	0.5	

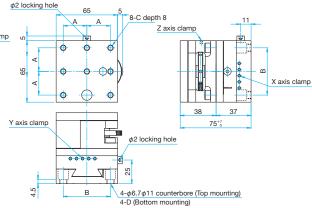
TASB-605

- Hexagonal socket head cap screw M4×10...4 screws, One 3mm hex wrench with knob, One 1.5mm hex wrench
- XY axes=Wrench size for adjustment 3mm, Z axis=Adjustment hole size φ3mm Wrench size for clamp common to XYZ axes=1.5mm



TASB-655-M6/655UU

- Hexagonal socket head cap screw M6×12...4 screws,
 One 3mm hex wrench with knob, One 1.5mm hex wrench (M6) Hexagonal socket head cap screw 1/4-20UNC×1/2...4 screws, One 3mm hex wrench with knob, One 1.5mm hex wrench (UU)
- Mex wrench size with knob 3mm, hex wrench size for clamp 1.5mm (M6) Hex wrench size with knob 3mm, hex wrench size for clamp 1.5mm (UU)



Part Number	(mm)	(mm)	С	D
TASB-655-M6	25	50	M6	M8
TASB-655UU	25.4	50.8	1/4-20UNC	5/16-18UNC

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120 × 120 mm

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