

X Axis Leadscrew Translation Stages

XY Axis Leadscrew Translation Stages

TAS-1

Stage Size 24 x 30 mm / 18 x 60 mm

RoHS

TAS-2

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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

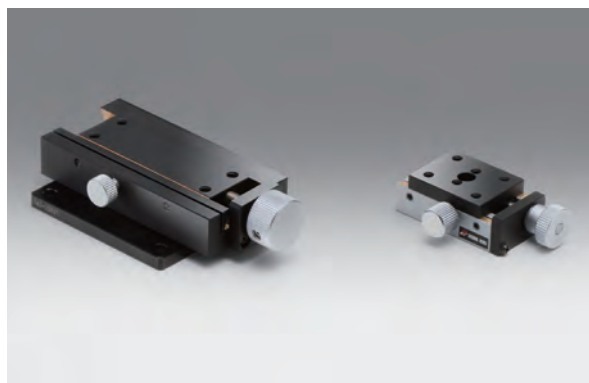
100 x 100 mm

120 x 120 mm

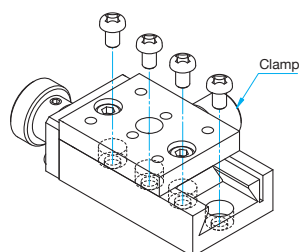
Others

Leadscrew dovetail translation stages with rectangular form factor, enabling longer travel with fine adjustment.

- Low cost, high stability, and long travel due to form factor. Large adjustment knob provides high sensitivity, (Except 15mm size)



Mounting Method



Stage must be translated to provide access to all of the mounting holes.

Guide

- Use adaptor plates for TAS-2060 (SP-127-1 and SP-134) to mount post holders and various stages.
 SP-127-1 [Reference](#) D045 [Catalog Code](#) W6069
 SP-134 [Reference](#) D046 [Catalog Code](#) W6076

Attention

- Micrometer brackets may extend above the top surface of some stages. Check drawings for more information.

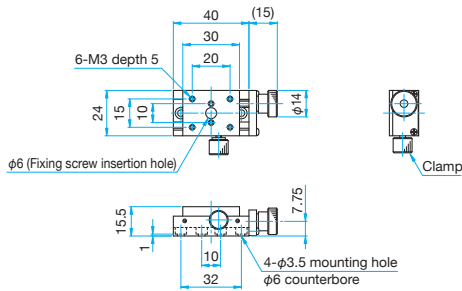
Specifications

Part Number	METRIC	TAS-24301	TAS-20601	TAS-24302	TAS-20602
(Opposite Model)	METRIC	TAS-24301R	TAS-20601R	TAS-24302R	TAS-20602R
Stage Size [mm]		24x30	18x60	24x30	18x60
Axes of Travel		X axis		XY axis	
Travel [mm]		±4	±7.5	±4	±7.5
Screw Pitch [mm]		0.5	0.5	0.5	0.5
Guide Method		Dovetail method			
Primary Material		Brass			
Finish		Super black chrome			
Load Capacity [N]		68.7 (7.0kgf)	147 (15.0kgf)	68.7 (7.0kgf)	147 (15.0kgf)
Travel Accuracy	Straightness [μm]	20	20	20	20
Max. Moment Capacity	Pitch [N·m]	0.5	0.5	0.5	0.5
	Roll [N·m]	0.5	0.5	0.5	0.5
	Yaw [N·m]	0.5	0.7	0.5	0.7
Moment Stiffness	Pitch [°/N·cm]	0.51	0.25	1.5	1.27
	Roll [°/N·cm]	1.0	1.0	1.5	1.27
Parallelism [μm]		50	50	100	100
Weight [kg]		0.2	0.5	0.4	0.9

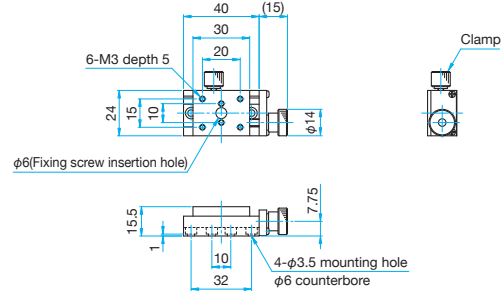


Outline Drawing

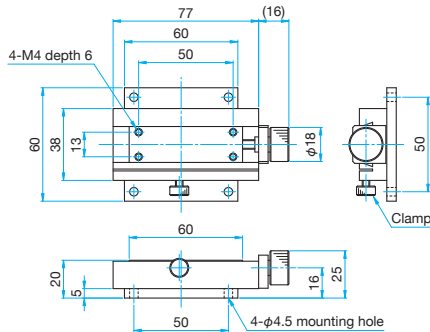
TAS-24301 Pan head screw M3×5...4 screws



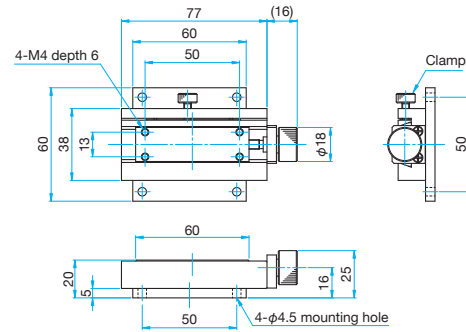
TAS-24301R Pan head screw M3×5...4 screws



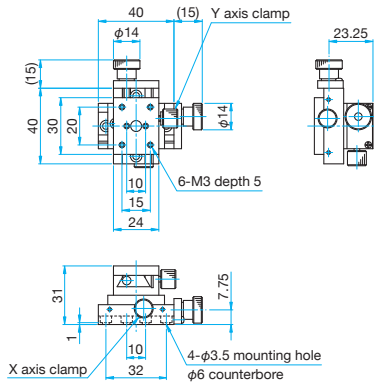
TAS-20601 Hexagonal socket head cap screw M4×10...4 screws



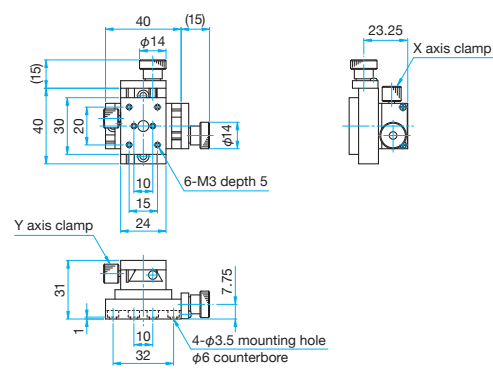
TAS-20601R Hexagonal socket head cap screw M4×10...4 screws



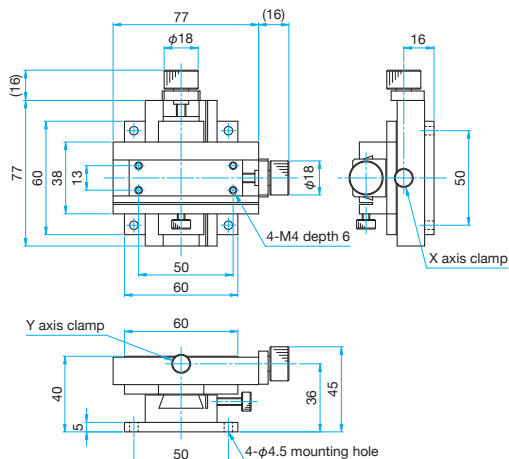
TAS-24302 Pan head screw M3×5...4 screws



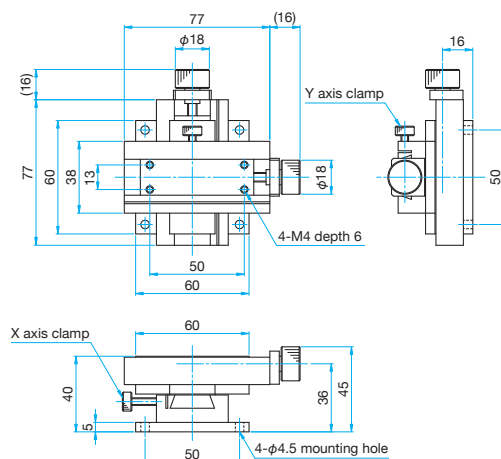
TAS-24302R Pan head screw M3×5...4 screws



TAS-20602 Hexagonal socket head cap screw M4×10...4 screws



TAS-20602R Hexagonal socket head cap screw M4×10...4 screws



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