

Z Axis Aluminium Translation Stages (Vertical Mounting)

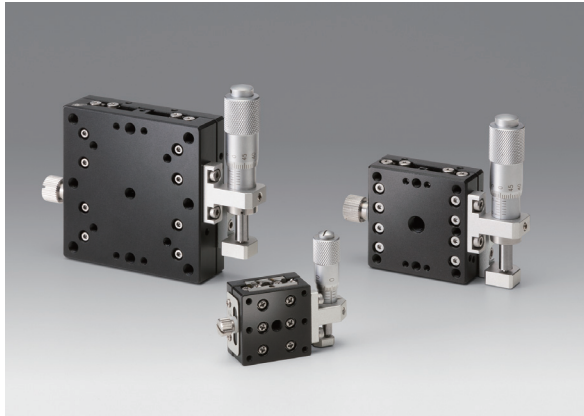
Stage Size 25 × 25 mm / 40 × 40 mm / 60 × 60 mm / 65 × 65 mm

TADC-SZ

RoHS

Aluminum translation stage with high stiffness bearing ways. Cost effective and light weight.

- High quality translation stage with smooth travel. Optimal for positioning and alignment.
- Unique steel bearing ways with 4-point extended contact yield stable load capacity in all directions.
- Long life, maintenance free.



Attention

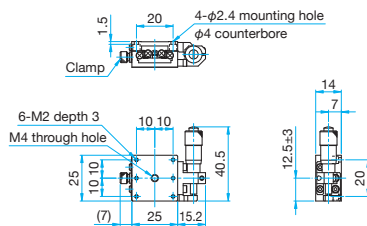
- Micrometer brackets may extend above the top surface of some stages. Check drawings for more information.



Outline Drawing

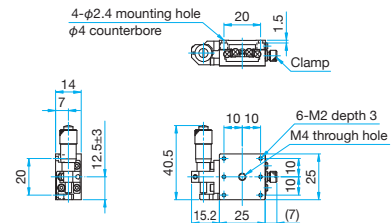
TADC-251SZ

Hexagon socket head cap screw (stainless steel construction) M2×4...4 screws



TADC-251SRZ

Hexagon socket head cap screw (stainless steel construction) M2×4...4 screws



Specifications

Part Number	METRIC	TADC-251SZ	TADC-401SZ	TADC-601SZ	TADC-651SZ25-M6
	INCH	—	—	—	TADC-651SZ25UU
(Opposite Model)	METRIC	TADC-251SRZ	TADC401SRZ	TADC601SRZ	TADC-651SRZ25-M6
	INCH	—	—	—	TADC-651SRZ25UU
Stage Size [mm]		25×25	40×40	60×60	65×65
Axes of Travel		Z axis			
Micrometer Position		Side			
Travel [mm]		±3	±6.5	±6.5	±12.5
Lead of Actuator [mm/rotation]		0.5	0.5	0.5	0.5
Micrometer Readable Resolution [mm]		0.01	0.01	0.01	0.01
Guide Method		Extended contact ball bearing guide			
Primary Material		Aluminum			
Finish		Black anodized			
Load Capacity [N]		14.7N (1.5kgf)	24.5N (2.5kgf)	29.4N (3.0kgf)	39.2N (4.0kgf)
Travel Accuracy	Straightness [μm]	3	3	3	3
Max. Moment Capacity	Pitch [N·m]	1.47	2.5	4.9	4.9
	Roll [N·m]	1.47	2.5	4.9	4.9
Moment Stiffness	Pitch [°/N·cm]	6	0.66	0.4	0.4
Running Parallelism [μm]		20	10	10	10
Weight [kg]		0.05	0.15	0.2	0.31

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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

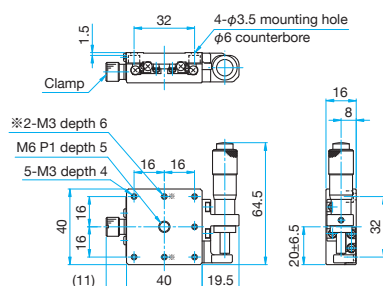
Others



Outline Drawing

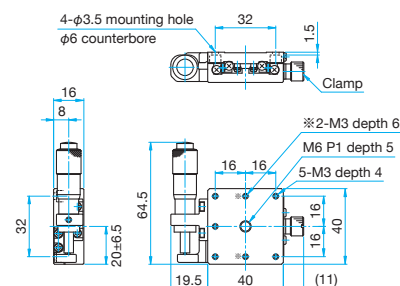
TADC-401SZ

- Hexagonal socket head cap screw M3×6...4 screws
SUS spring washers



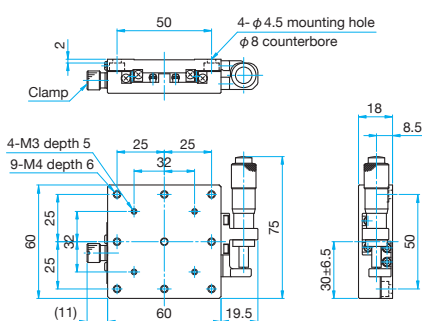
TADC-401SRZ

- Hexagonal socket head cap screw M3×6...4 screws
SUS spring washers



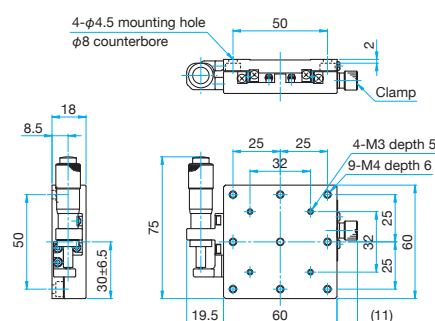
TADC-601SZ

- Hexagon socket head cap screw (stainless steel construction) M4×6...4 screws



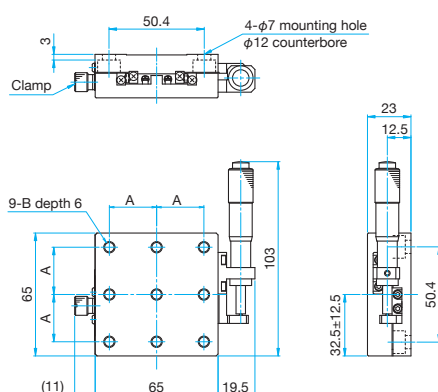
TADC-601SRZ

- Hexagon socket head cap screw (stainless steel construction) M4×6...4 screws



TADC-651SZ25-M6/651SZ25UU

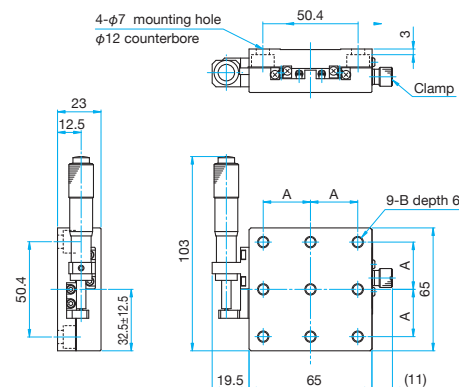
- Hexagon socket head cap screw (stainless steel construction) M6×8...4 screws(M6)
Hexagon socket head cap screw (stainless steel construction) 1/4-20UNC×5/16...4 screws (UU)



Part Number	A (mm)	B
TADC-651SZ25-M6	25	M6
TADC-651SZ25UU	25.4	1/4-20UNC

TADC-651SRZ25-M6/651SRZ25UU

- Hexagon socket head cap screw (stainless steel construction) M6×8...4 screws(M6)
Hexagon socket head cap screw (stainless steel construction) 1/4-20UNC×5/16...4 screws (UU)



Part Number	A (mm)	B
TADC-651SRZ25-M6	25	M6
TADC-651SRZ25UU	25.4	1/4-20UNC

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