

X Axis Aluminum Translation Stages

XY Axis Aluminum Translation Stages

TADC-251

TADC-252W

Stage Size 25 × 25 mm

RoHS

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

- 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.

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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

Specifications

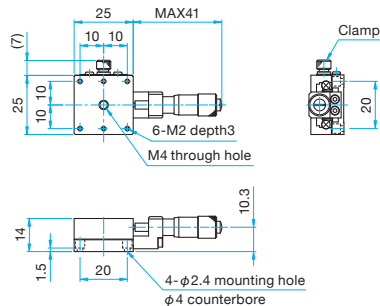
Part Number		TADC-251C	TADC-251S	TADC-252WC	TADC-252WS
(Opposite Model)		—	TADC-251SR	—	TADC-252WSR
Stage Size [mm]		25×25	25×25	25×25	25×25
Axes of Travel		X axis		XY axis	
Micrometer Position		Center	Side	Center	Side
Travel [mm]		±3	±3	±3	±3
Lead of Actuator [mm/rotation]		0.5	0.5	0.5	0.5
Micrometer 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]		39.2 (4.0kgf)	39.2 (4.0kgf)	39.2 (4.0kgf)	39.2 (4.0kgf)
Travel Accuracy	Straightness [μm]	3	3	3	3
	Pitch [N·m]	2	2	1.9	1.9
	Roll [N·m]	1.9	1.9	1.9	1.9
	Yaw [N·m]	1.9	1.9	1.9	1.9
Moment Stiffness	Pitch [°/N·cm]	2.5	2.5	4.5	4.5
	Roll [°/N·cm]	2.5	2.5	4.5	4.5
	Parallelism [μm]	30	30	60	60
Running Parallelism [μm]		10	10	20	20
Orthogonality [μm]		—	—	10	10
Weight [kg]		0.05	0.05	0.1	0.1



Outline Drawing

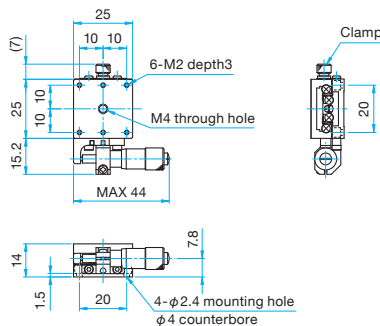
TADC-251C

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



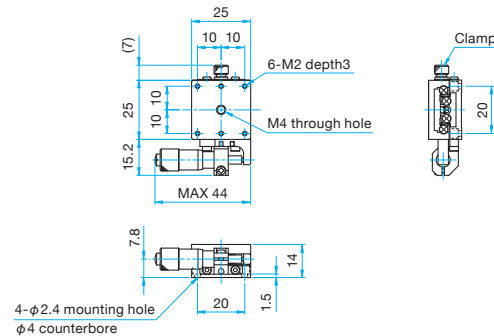
TADC-251S

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



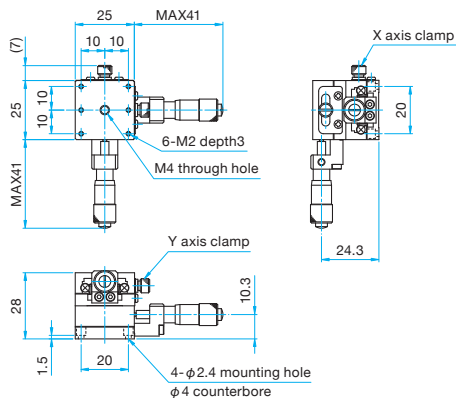
TADC-251SR

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



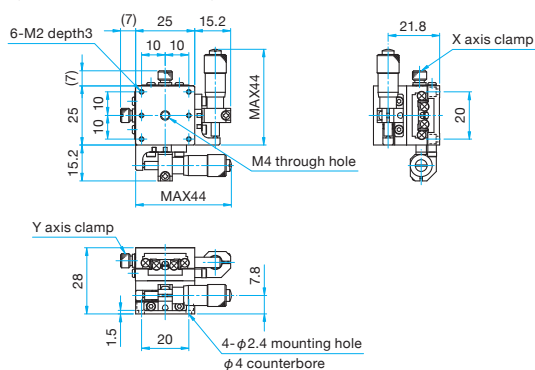
TADC-252WC

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



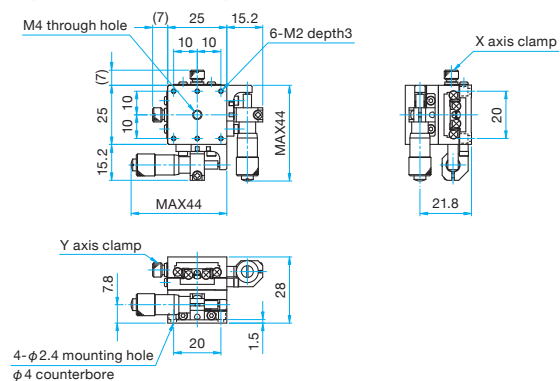
TADC-252WS

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



TADC-252WSR

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



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