

Z Axis Aluminium Translation Stages (Vertical)

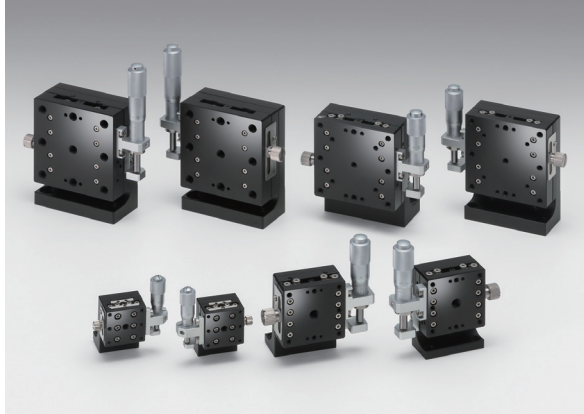
Stage Size 25 × 25 mm / 40 × 40 mm / 60 × 60 mm / 65 × 65 mm

TADC-L

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.
- Special L brackets are attached to the TADC-SZ series.



Guide

► Vertical mounting type stages without a L angle bracket are also available. [Reference](#) E104 [Catalog Code](#) W7514

Attention

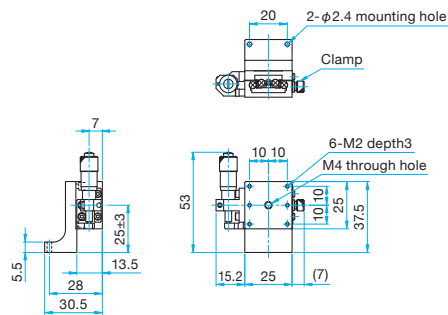
- Micrometer brackets may extend above the top surface of some stages. Check drawings for more information.
- Note that some samples might not be able to be fixed on the stage depending on their shapes, or required travel might not be ensured.



Outline Drawing

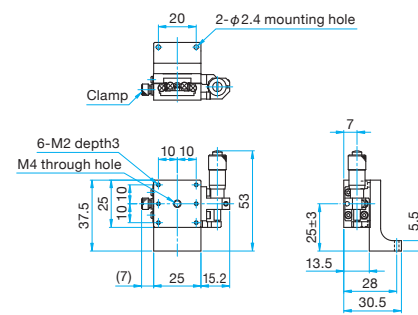
TADC-253L

Hexagon socket head cap screw (stainless steel construction) M2×8...2 screw



TADC-253RL

Hexagon socket head cap screw (stainless steel construction) M2×8...2 screw



Specifications

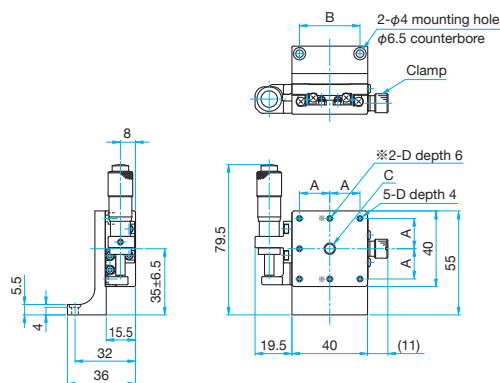
Part Number	METRIC	TADC-253L	TADC-403L	TADC-603L	TADC-653L25-M6
	INCH	—	TADC-403LUU	—	TADC-653L25UU
(Opposite Model)	METRIC	TADC-253RL	TADC-403RL	TADC-603RL	TADC-653RL25-M6
	INCH	—	TADC-403RLUU	—	TADC-653RL25UU
Stage Size [mm]		25×25	40×40	60×60	65×65
Axes of Travel		Z axis			
Micrometer Position		Side			
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 (3kgf)	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]	16.0	0.66	0.3	0.5
Running Parallelism [μm]		20	10	10	20
Weight [kg]		0.07	0.2	0.36	0.51



Outline Drawing

TADC-403L/403LUU

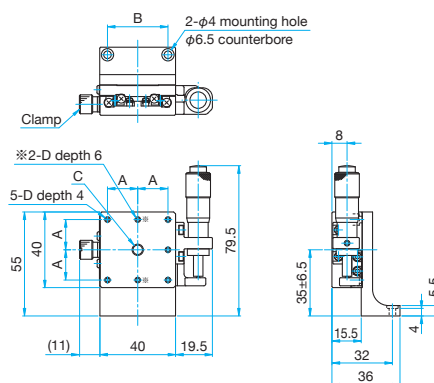
- Hexagon socket head cap screw (stainless steel construction) M3×8...2 screws
Hexagon socket head cap screw (stainless steel construction) 6-32UNC×5/16...2 screws (UU)



Part Number	A (mm)	B (mm)	C	D
TADC-403L	16	32	M6 P1 depth 5	M3
TADC-403LUU	15.875	31.75	1/4-20UNC depth 5	6-32UNC

TADC-403RL/403RLUU

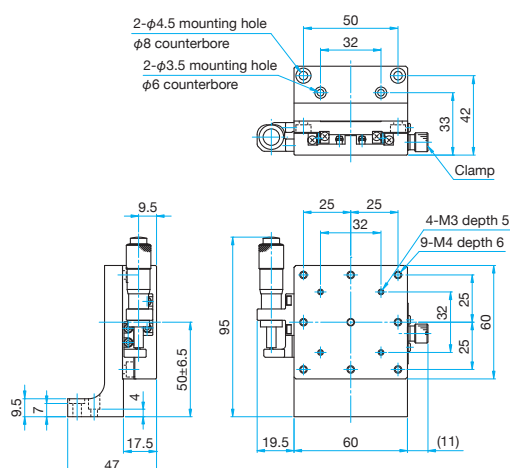
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Hexagon socket head cap screw (stainless steel construction) 6-32UNC×5/16...2 screws (UU)



Part Number	A (mm)	B (mm)	C	D
TADC-403RL	16	32	M6 P1 depth 5	M3
TADC-403RLUU	15.875	31.75	1/4-20UNC depth 5	6-32UNC

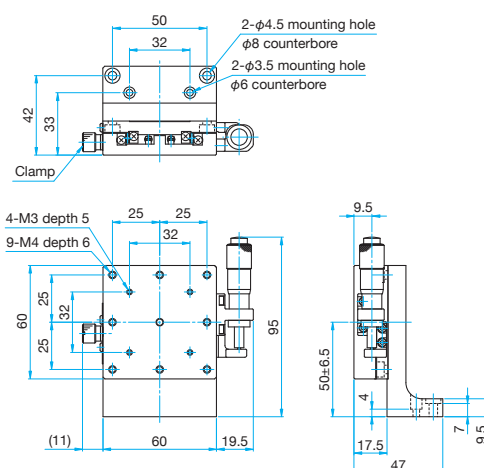
TADC-603L

- Hexagonal socket head cap screw (stainless steel construction) M3×8...2 screws



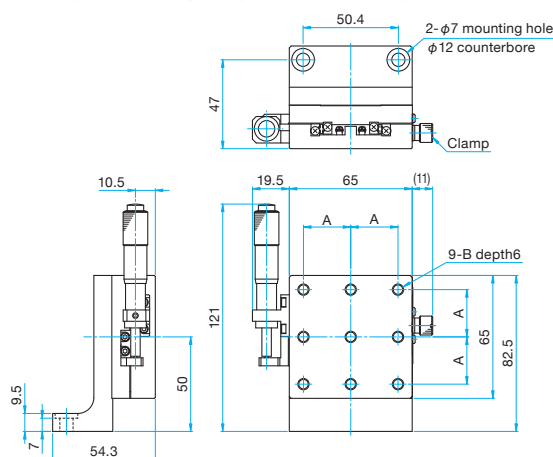
TADC-603RL

- Hexagonal socket head cap screw (stainless steel construction) M3×8...2 screws



TADC-653L25-M6/653L25UU

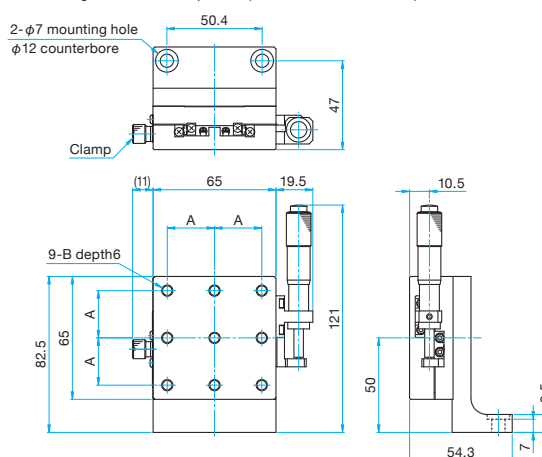
- Hexagon socket head cap screw (stainless steel construction) M6×12...2 screws (M6)
Hexagon socket head cap screw (stainless steel construction) 1/4-20UNC×1/2...2 screws (UU)



Part Number	A (mm)	B
TADC-653L25-M6	25	M6
TADC-653L25UU	25.4	1/4-20UNC

TADC-653RL25-M6/653RL25UU

- Hexagon socket head cap screw (stainless steel construction) M6×12...2 screws (M6)
Hexagon socket head cap screw (stainless steel construction) 1/4-20UNC×1/2...2 screws (UU)



Part Number	A (mm)	B
TADC-653RL25-M6	25	M6
TADC-653RL25UU	25.4	1/4-20UNC

Application Systems

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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