

X Axis Aluminum Translation Stages

XY Axis Aluminum Translation Stages

TADC-401

TADC-402W

Stage Size 40 × 40 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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Vacuum

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

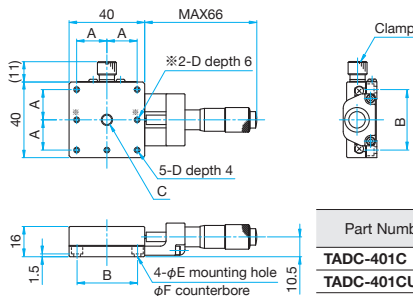
Part Number	METRIC	TADC-401C	TADC-401S	TADC-402WC	TADC-402WS
	INCH	TADC-401CUU	TADC-401SUU	TADC-402WCUU	TADC-402WSUU
(Opposite Model)	METRIC	—	TADC-401SR	—	TADC-402WSR
	INCH	—	TADC-401SRUU	—	TADC-402WSRUU
Stage Size [mm]		40×40	40×40	40×40	40×40
Axes of Travel		X axis		XY axis	
Micrometer Position		Center	Side	Center	Side
Travel [mm]		±6.5	±6.5	±6.5	±6.5
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]		49 (5.0kgf)	49 (5.0kgf)	49 (5.0kgf)	49 (5.0kgf)
Travel Accuracy	Straightness [μm]	3	3	3	3
	Pitch [N·m]	2.5	2.5	2.5	2.5
	Roll [N·m]	3	3	2.5	2.5
	Yaw [N·m]	2.5	2.5	2.5	2.5
Moment Stiffness	Pitch [°/N·cm]	0.66	0.66	1.22	1.22
	Roll [°/N·cm]	0.36	0.36	1.22	1.22
Parallelism [μm]		30	30	50	50
Running Parallelism [μm]		10	10	20	20
Orthogonality [μm]		—	—	10	10
Weight [kg]		0.15	0.15	0.3	0.3



Outline Drawing

TADC-401C/401CUU

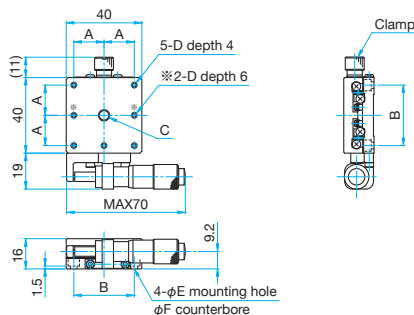
- Hexagon socket head cap screw (stainless steel construction) M3×6...4 screws, Spring washers
Hexagon socket head cap screw (stainless steel construction) 6-32UNC×1/4...4 screws (UU)



Part Number	A (mm)	B (mm)	C	D	E (mm)	F (mm)
TADC-401C	16	32	M6 P1 depth 5	M3	3.5	6
TADC-401CUU	15.875	31.75	1/4-20UNC depth 5	6-32UNC	4	6.5

TADC-401S/401SUU

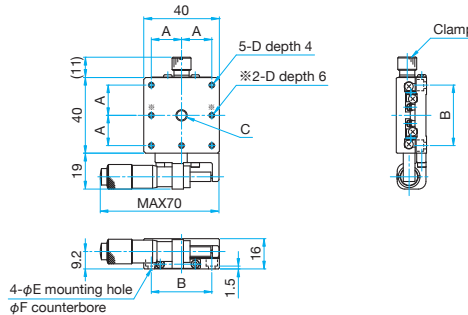
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TADC-401SUU	15.875	31.75	1/4-20UNC depth 5	6-32UNC	4	6.5

TADC-401SR/401SRUU

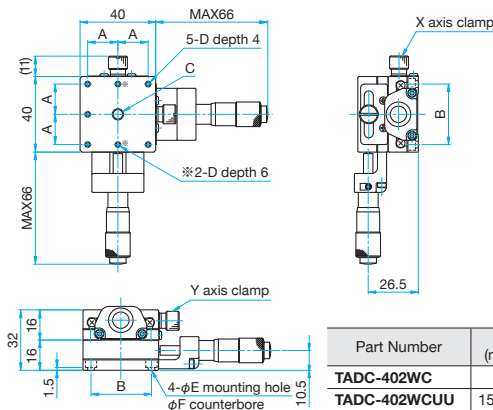
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TADC-402WC/402WCUU

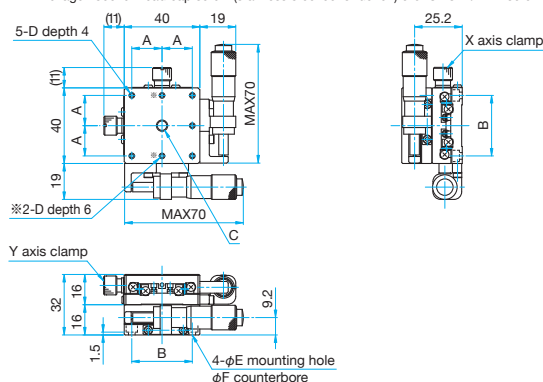
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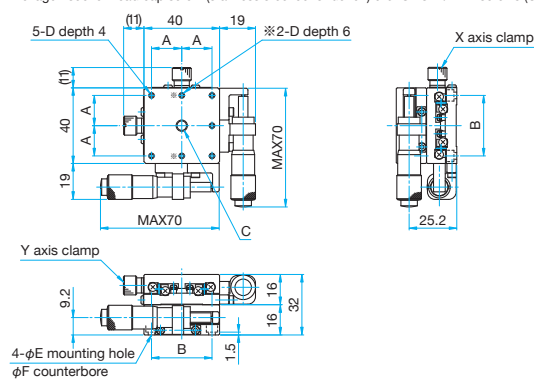
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