

X Axis Aluminum Translation Stages

XY Axis Aluminum Translation Stages

TADC-651

Stage Size 65 × 65 mm

RoHS

TADC-652W

Application Systems

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Guide

X Axis Stages

XY Axis Stages

Z Axis Stages

XZ Axis Stages

XYZ Axis Stages

Rotation Stages

Goniometer

Tilt Stages

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

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.

Specifications					
Part Number	METRIC	TADC-651C25-M6	TADC-651S25-M6	TADC-652WC25-M6	TADC-652WS25-M6
	INCH	TADC-651C25UU	TADC-651S25UU	TADC-652WC25UU	TADC-652WS25UU
(Opposite Model)	METRIC	—	TADC-651SR25-M6	—	TADC-652WSR25-M6
	INCH	—	TADC-651SR25UU	—	TADC-652WSR25UU
Stage Size [mm]		65×65	65×65	65×65	65×65
Axes of Travel		X axis		XY axis	
Micrometer Position		Center	Side	Center	Side
Travel [mm]		±12.5	±12.5	±12.5	±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]					
Travel Accuracy	Straightness [μm]	3	3	3	3
	Pitch [N·m]	4.9	4.9	4.9	4.9
Max. Moment Capacity	Roll [N·m]	4.9	4.9	4.9	4.9
	Yaw [N·m]	4.9	4.9	4.9	4.9
Moment Stiffness	Pitch [°/N·cm]	0.3	0.3	0.6	0.6
	Roll [°/N·cm]	0.3	0.3	0.6	0.6
Parallelism [μm]		30	30	50	50
Running Parallelism [μm]		10	10	20	20
Orthogonality [μm]		—	—	10	10
Weight [kg]		0.31	0.31	0.62	0.62

