

X Axis Aluminum Crossed Roller Translation Stages

XY Axis Aluminum Crossed Roller Translation Stages

TAM-1001

Stage Size 100 x 100 mm

TAM-1002

RoHS

High precision crossed-roller linear translation stages with black anodized aluminum bodies.



Attention

- Micrometer brackets may extend above the top surface of some stages. Check drawings for detailed information.
- Note that based upon payload size, rated travel could be reduced.

Specifications

Part Number	METRIC	TAM-1001C	TAM-1001S	TAM-1002C	TAM-1002S
(Opposite Model)	METRIC	—	TAM-1001SR	—	TAM-1002SR
Stage Size [mm]		100×100	100×100	100×100	100×100
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		Crossed roller			
Primary Material		Aluminum			
Finish		Black anodized			
Load Capacity [N]		490 (50.0kgf)	490 (50.0kgf)	490 (50.0kgf)	490 (50.0kgf)
Travel Accuracy	Straightness [μm]	2	2	2	2
	Pitch ["]	25	25	25	25
	Yaw ["]	15	15	15	15
Max. Moment Capacity	Pitch [N·m]	27.5	27.5	27.5	27.5
	Roll [N·m]	40.7	40.7	27.5	27.5
	Yaw [N·m]	30.9	30.9	30.9	30.9
Moment Stiffness	Pitch ["/N·cm]	0.09	0.09	0.17	0.17
	Roll ["/N·cm]	0.07	0.07	0.17	0.17
Parallelism [μm]		50	50	50	50
Running Parallelism [μm]		15	15	25	25
Orthogonality [μm]		—	—	10	10
Options		FP/DG	FP	FP/DG	FP
Weight [kg]		0.9	0.9	1.5	1.5

Option

Option Code	Compatible product		Lead of Actuator [mm/rotation]	Micrometer Readable Resolution [mm]	Reference
	Products Name	Part Number			
FP	Fine-pitch Screw Adjusters	FPSA-62555	0.25	—	E008
DG	Micrometer Heads (Digital display)	MHN2-25M	0.5	0.001	

* Please add an option code as the part number suffix to specify various optional specifications.

* DG is a digital display type. [Reference](#) F005 [Catalog Code](#) W8002

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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

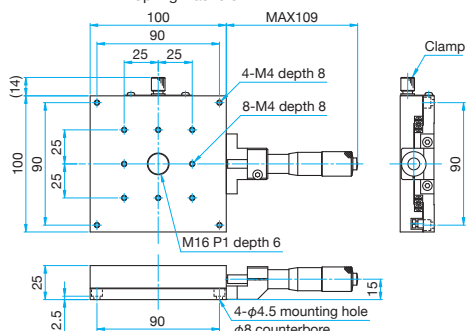
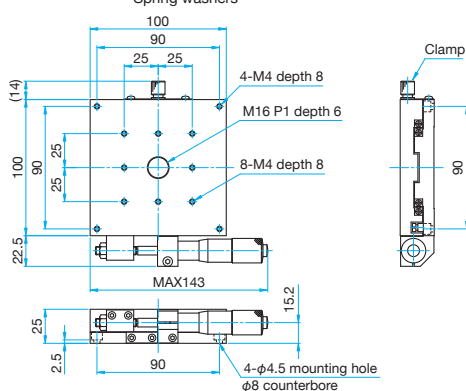
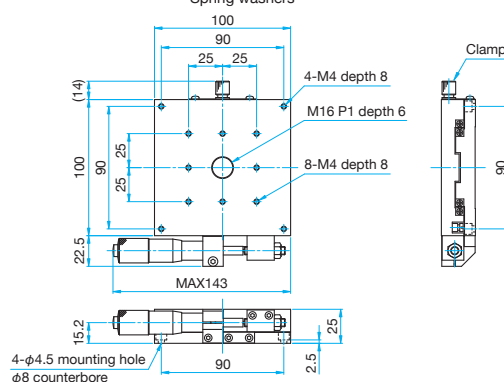
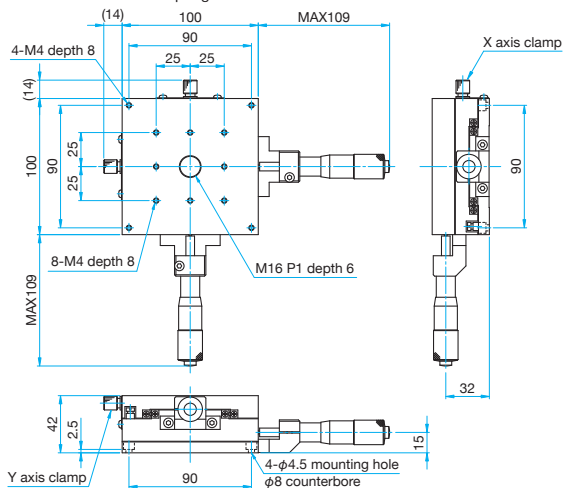
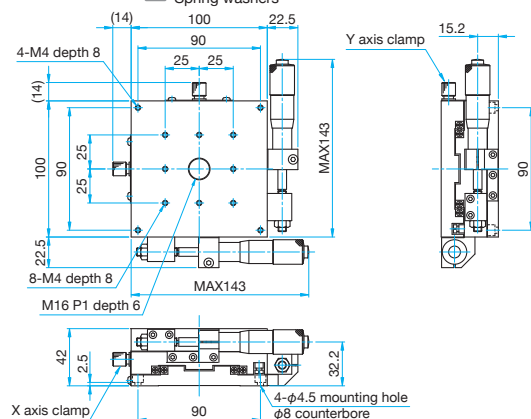
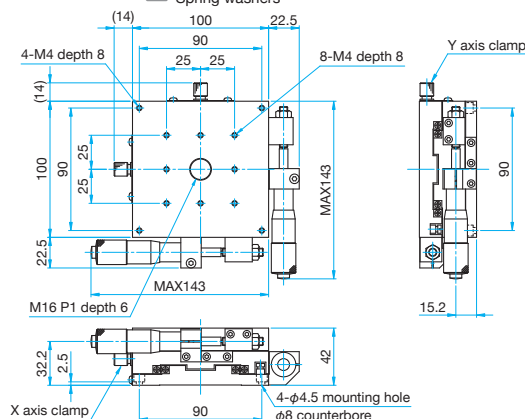
100 × 100 mm

120 × 120 mm

Others



Outline Drawing

TAM-1001C Hexagonal socket head cap screw M4×8...4 screws, Spring washers**TAM-1001S** Hexagonal socket head cap screw M4×8...4 screws, Spring washers**TAM-1001SR** Hexagonal socket head cap screw M4×8...4 screws, Spring washers**TAM-1002C** Hexagonal socket head cap screw M4×8...4 screws, Spring washers**TAM-1002S** Hexagonal socket head cap screw M4×8...4 screws, Spring washers**TAM-1002SR** Hexagonal socket head cap screw M4×8...4 screws, Spring washers

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