

X Axis Aluminum Crossed Roller Translation Stages

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TAM-801

Stage Size 80 × 80 mm

TAM-802

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-801C	TAM-801S	TAM-802C	TAM-802S
(Opposite Model)	METRIC	—	TAM-801SR	—	TAM-802SR
Stage Size [mm]		80×80	80×80	80×80	80×80
Axes of Travel		X axis		XY axis	
Micrometer Position		Center	Side	Center	Side
Travel [mm]		±7.5	±7.5	±7.5	±7.5
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]		392 (40.0kgf)	392 (40.0kgf)	392 (40.0kgf)	392 (40.0kgf)
Travel Accuracy	Straightness [μm]	2	2	2	2
	Pitch ["]	25	25	25	25
	Yaw ["]	15	15	15	15
Max. Moment Capacity	Pitch [N·m]	12.3	12.3	12.3	12.3
	Roll [N·m]	15.7	15.7	12.3	12.3
	Yaw [N·m]	14.7	14.7	14.7	14.7
Moment Stiffness	Pitch ["/N·cm]	0.12	0.12	0.23	0.23
	Roll ["/N·cm]	0.1	0.1	0.23	0.23
Parallelism [μm]		30	30	50	50
Running Parallelism [μm]		10	10	20	20
Orthogonality [μm]		—	—	10	10
Options		FP/DM/WP	FP/DM/WP	FP/DM/WP	FP/DM/WP
Weight [kg]		0.6	0.6	0.9	0.9

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-62550	0.25	—	E008
DM	Differential Micrometer Heads	MHF2-13F	Coars: 0.5 Fine: 0.025	Coars: 0.01 Fine: 0.0005	
WP	Sub-micron Worm Drive Micrometer Heads	WGP-13	Coars: 0.25 Fine: 0.005	Coars: 0.005 Fine: 0.0005	

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

* The travel of DM and WP is ±6.5 mm.

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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

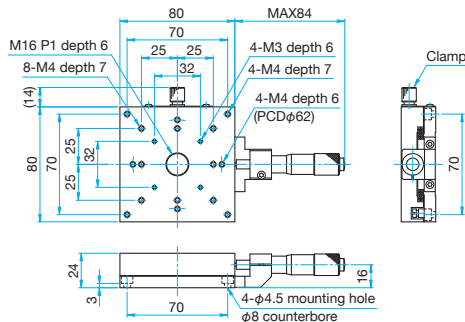
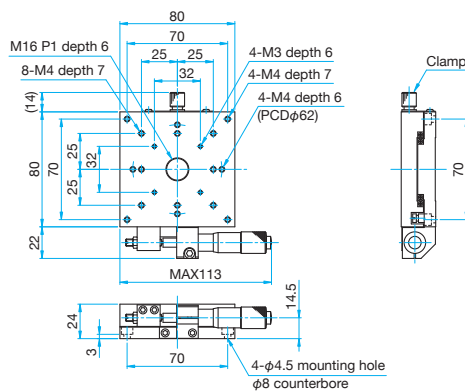
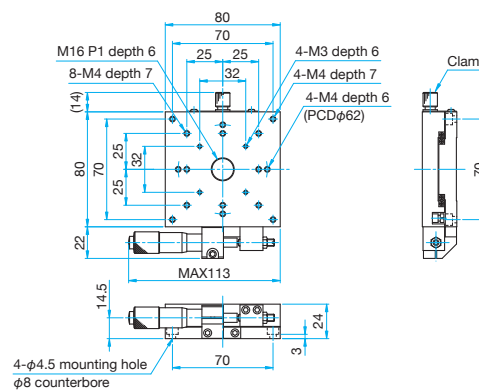
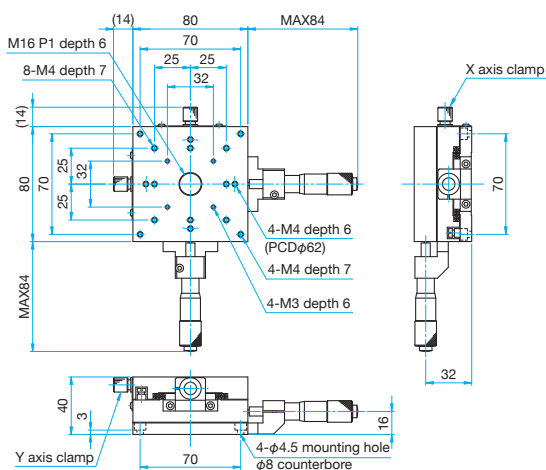
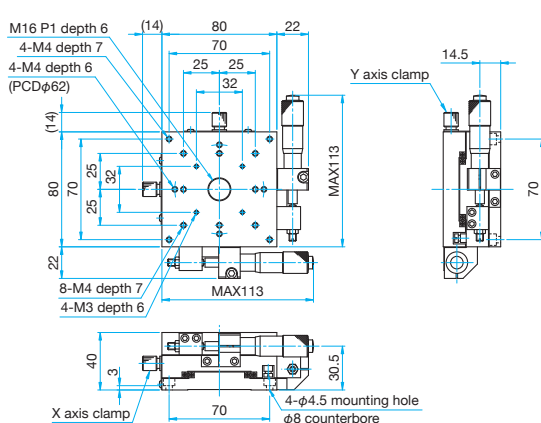
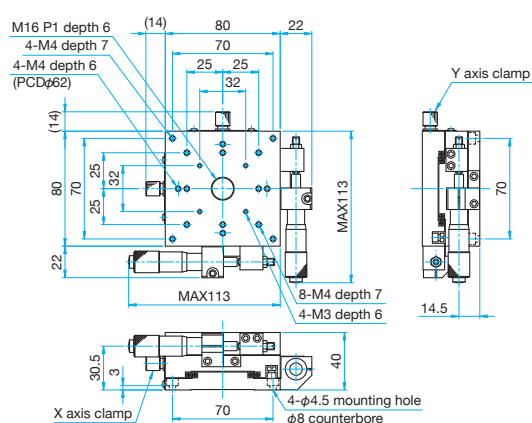
100 × 100 mm

120 × 120 mm

Others



Outline Drawing

TAM-801C Hexagonal socket head cap screw M4×8...4 screws**TAM-801S** Hexagonal socket head cap screw M4×8...4 screws**TAM-801SR** Hexagonal socket head cap screw M4×8...4 screws**TAM-802C** Hexagonal socket head cap screw M4×8...4 screws**TAM-802S** Hexagonal socket head cap screw M4×8...4 screws**TAM-802SR** Hexagonal socket head cap screw M4×8...4 screws

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