

XY Axis Aluminum Crossed Roller Translation Stages

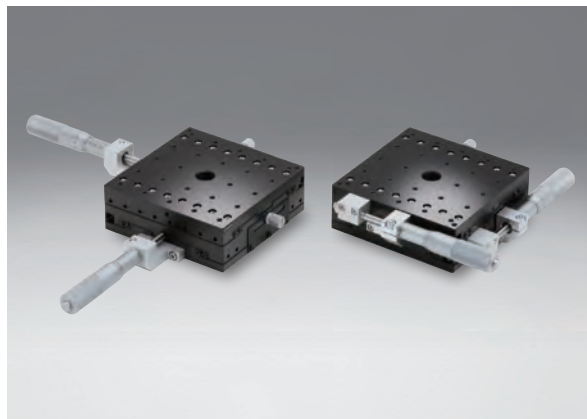
Stage Size 120 × 120 mm

TAM-1202

RoHS

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

- There are M4, M6 or 1/4-20 inch tapped hole versions available.
- Both left and right hand adjustment versions available.
- All stages are equipped with a robust knurled head locking screw.



Attention

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

Specifications

Part Number	METRIC	TAM-1202C	TAM-1202S	TAM-1202C-M6	TAM-1202S-M6
	INCH	—	—	TAM-1202CUU	TAM-1202SUU
(Opposite Model)	METRIC	—	TAM-1202SR	—	TAM-1202SR-M6
	INCH	—	—	—	TAM-1202SRUU
Stage Size [mm]		120×120	120×120	120×120	120×120
Axes of Travel		XY axis			
Micrometer Position		Center	Side	Center	Side
Travel [mm]		±20	±20	±20	±20
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]		588 (60.0kgf)	588 (60.0kgf)	588 (60.0kgf)	588 (60.0kgf)
Travel Accuracy	Straightness [μm]	2	2	2	2
	Pitch ["]	40	40	40	40
	Yaw ["]	25	25	25	25
Max. Moment Capacity	Pitch [N·m]	40.7	40.7	40.7	40.7
	Roll [N·m]	40.7	40.7	40.7	40.7
	Yaw [N·m]	52	52	52	52
Moment Stiffness	Pitch ["/N·cm]	0.13	0.13	0.13	0.13
	Roll ["/N·cm]	0.13	0.13	0.13	0.13
Parallelism [μm]		50	50	50	50
Running Parallelism [μm]		30	30	30	30
Orthogonality [μm]		10	10	10	10
Weight [kg]		2.5	2.5	2.5	2.5

Application Systems

Optics & Optical Coatings

Opto-Mechanics

Bases

Manual Stages

Actuators & Adjusters

Motorized Stages

Light Sources & Laser Safety

Index

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

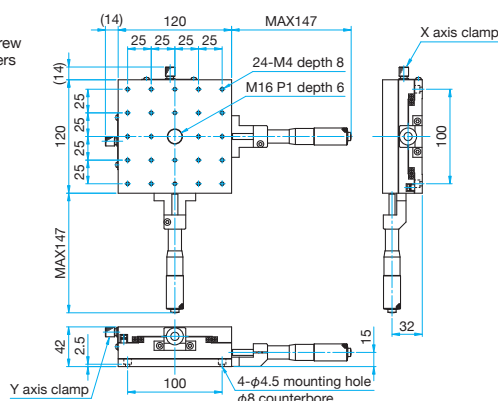
Others



Outline Drawing

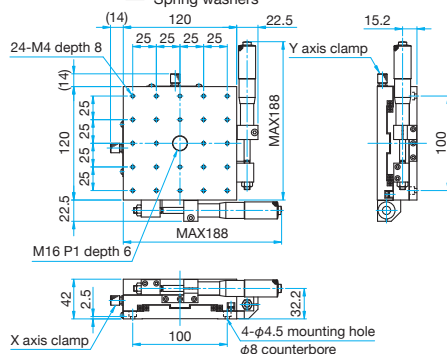
TAM-1202C

Hexagonal socket head cap screw
M4×8...4 screws, Spring washers



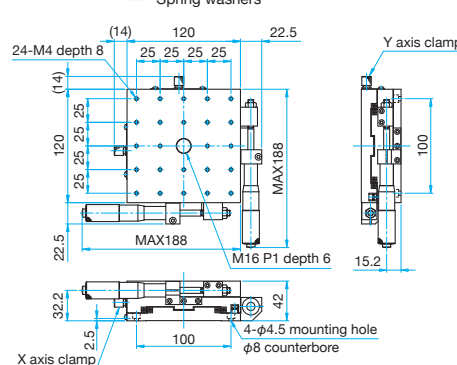
TAM-1202S

Hexagonal socket head cap screw M4×8...4 screws,
Spring washers



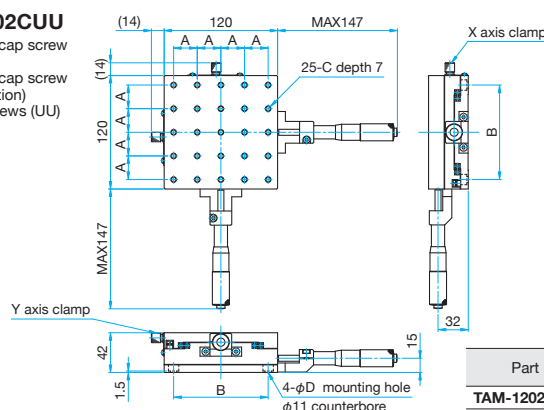
TAM-1202SR

Hexagonal socket head cap screw M4×8...4 screws,
Spring washers



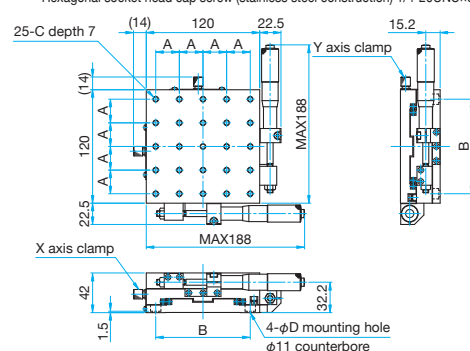
TAM-1202C-M6/1202CUU

Hexagonal socket head cap screw
M6×8...4 screws (M6)
Hexagonal socket head cap screw
(stainless steel construction)
1/4-20UNC×5/16...4 screws (UU)



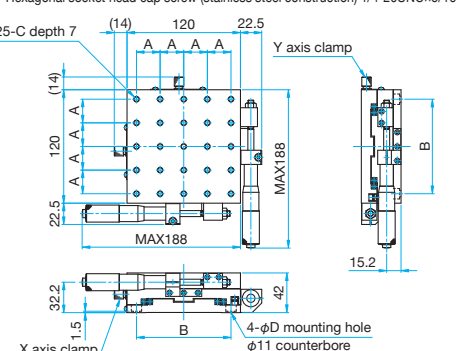
TAM-1202S-M6/1202SUU

Hexagonal socket head cap screw M6×8...4 screws (M6)
Hexagonal socket head cap screw (stainless steel construction) 1/4-20UNC×5/16...4 screws (UU)



TAM-1202SR-M6/1202SRUU

Hexagonal socket head cap screw M6×8...4 screws (M6)
Hexagonal socket head cap screw (stainless steel construction) 1/4-20UNC×5/16...4 screws (UU)



Part Number	A (mm)	B (mm)	C	D (mm)
TAM-1202S-M6	25	100	M6 P1	6.5
TAM-1202SUU	25.4	101.6	1/4-20UNC	7

Part Number	A (mm)	B (mm)	C	D (mm)
TAM-1202SR-M6	25	100	M6 P1	6.5
TAM-1202SRUU	25.4	101.6	1/4-20UNC	7

Application Systems

Optics & Optical Coatings

Opto-Mechanics

Bases

Manual Stages

Actuators & Adjusters

Motorized Stages

Light Sources & Laser Safety

Index

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