

XYZ Axis Steel Extended Contact Translation Stages (Vertical)

TSD-605L Stage Size 60 x 60 mm

RoHS

TSD-655L Stage Size 65 x 65 mm

RoHS

This XYZ assembly incorporates an integrated (XY) axis steel linear stage and a (Z) axis steel stage with an integrated vertical bracket.

There are options for micrometer position and fine pitch screws.



Guide

► Vacuum-compatible stainless steel stages (TSDS-605*L/655*L) are also available. [Reference](#) E218 [Catalog Code](#) W7080

Specifications

Part Number	METRIC	TSD-605CL	TSD-605SL	TSD-655CL-M6	TSD-655SL-M6
	INCH	—	—	TSD-655CLUU	TSD-655SLUU
(Opposite Model)	METRIC	—	TSD-605SRL	—	TSD-655SRL-M6
	INCH	—	—	—	TSD-655SRLUU
Stage Size [mm]		60×60	60×60	65×65	65×65
Axes of Travel		XYZ axis			
Micrometer Position		Center	Side	Center	Side
Travel [mm]		XY axis ±6.5 Z axis ±6.5	XY axis ±6.5 Z axis ±6.5	XY axis ±6.5 Z axis ±6.5	XY axis ±6.5 Z axis ±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		Steel			
Finish		Super black chrome			
Load Capacity [N]		49 (5.0kgf)	49 (5.0kgf)	49 (5.0kgf)	49 (5.0kgf)
Travel Accuracy	Straightness [μm]	1	1	1	1
	Pitch [N·m]	8.0	8.0	8.0	8.0
Max. Moment Capacity	Roll [N·m]	8.0	8.0	8.0	8.0
	Pitch [°/N·cm]	0.58	0.58	0.58	0.58
Options		FP	FP	FP	FP
Weight [kg]		1.7	1.7	1.9	1.9

Option

Option Code	Compatible product		Lead of Actuator [mm/rotation]	Micrometer Readable Resolution [mm]	Reference E008
	Products Name	Part Number			
FP	Fine-pitch Screw Adjusters	FPSA-62540	0.25	—	E008

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

* The FP type requires a hex wrench or the optional hex wrench with knob (KCL) for driving operation. [Reference](#) F010 [Catalog Code](#) W8008

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

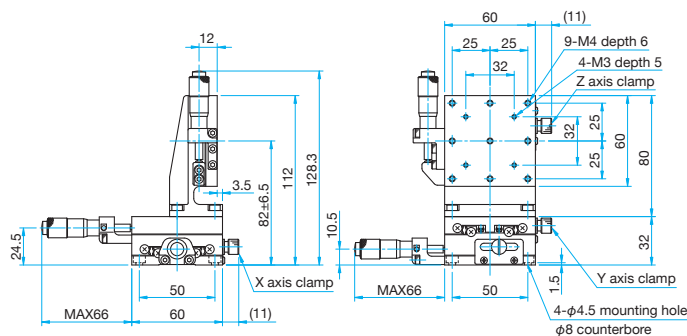
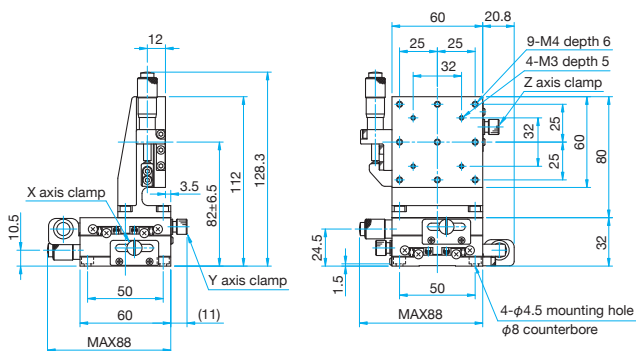
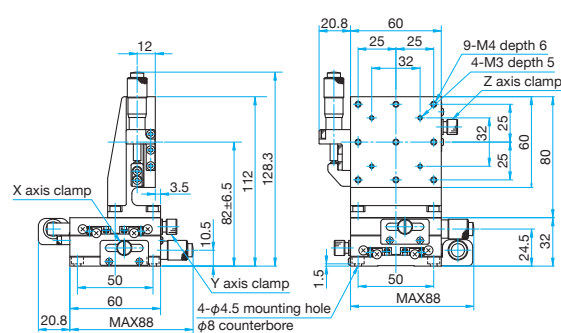
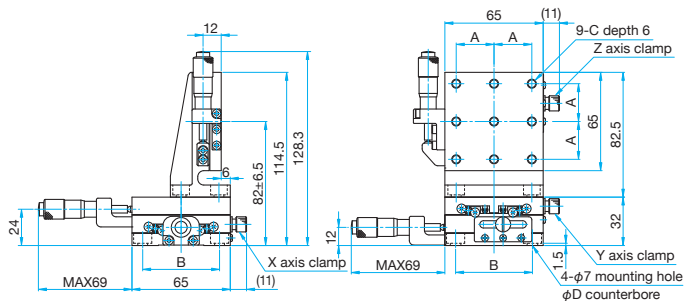
100 × 100 mm

120 × 120 mm

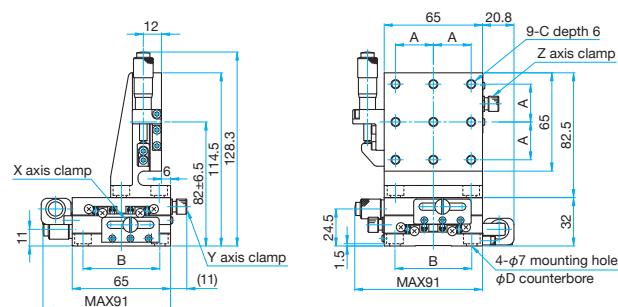
Others



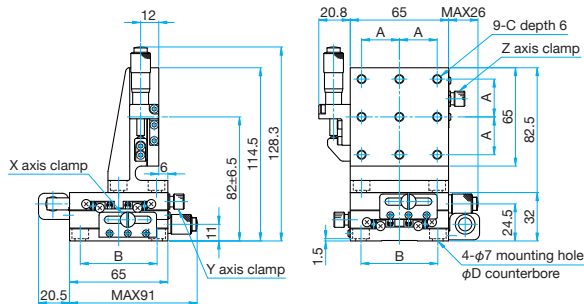
Outline Drawing

TSD-605CL Hexagonal socket head cap screw M4×6...4 screws**TSD-605SL** Hexagonal socket head cap screw M4×6...4 screws**TSD-605SRL** Hexagonal socket head cap screw M4×6...4 screws**TSD-655CL-M6/655CLUU** Hexagonal socket head cap screw M6×6...4 screws (M6)
Hexagonal socket head cap screw 1/4-20UNC×1/4...4 screws (UU)

Part Number	A (mm)	B (mm)	C	D (mm)
TSD-655CL-M6	25	50	M6 P1	11
TSD-655CLUU	25.4	50.8	1/4-20UNC	12

TSD-655SL-M6/655SLUUHexagonal socket head cap screw M6×6...4 screws (M6)
Hexagonal socket head cap screw 1/4-20UNC×1/4...4 screws (UU)

Part Number	A (mm)	B (mm)	C	D (mm)
TSD-655SL-M6	25	50	M6 P1	11
TSD-655SLUU	25.4	50.8	1/4-20UNC	12

TSD-655SRL-M6/655SRLUUHexagonal socket head cap screw M6×6...4 screws (M6)
Hexagonal socket head cap screw 1/4-20UNC×1/4...4 screws (UU)

Part Number	A (mm)	B (mm)	C	D (mm)
TSD-655SRL-M6	25	50	M6 P1	11
TSD-655SRLUU	25.4	50.8	1/4-20UNC	12

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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

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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