

X Axis General-Purpose Stainless Steel Translation Stages

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TSDH-251

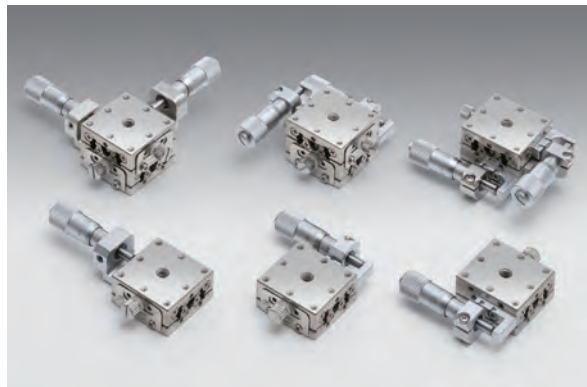
TSDH-252W

Stage Size 25 x 25 mm

RoHS

High precision stainless steel translation stages with “Extended Contact” bearing ways. High stiffness. Not intended for vacuum applications.

- Stage body consists of stainless steel (440C). To prevent rusting, the finish has been processed with electro less nickel plating.



Guide

- ▶ Also available with a super black chrome surface finish. Please contact sales for more information.

Attention

- ▶ Micrometer brackets may extend above the top surface of some stages. Check drawings for detailed information.

Specifications

Part Number		METRIC	TSDH-251C	TSDH-251S	TSDH-252WC	TSDH-252WS
(Opposite Model)		METRIC	—	TSDH-251SR	—	TSDH-252WSR
Stage Size [mm]			25×25	25×25	25×25	25×25
Axes of Travel			X axis		XY axis	
Micrometer Position			Center	Side	Center	Side
Travel [mm]			±3	±3	±3	±3
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			SUS440C quench hardened			
Finish			Electroless nickel			
Load Capacity [N]			59.8 (6.0kgf)	59.8 (6.0kgf)	59.8 (6.0kgf)	59.8 (6.0kgf)
Travel Accuracy	Straightness [μm]		1	1	1	1
	Pitch ["]		30	30	30	30
	Yaw ["]		25	25	25	25
Max. Moment Capacity	Pitch [N·m]		4.0	4.0	4.0	4.0
	Roll [N·m]		5.0	5.0	4.0	4.0
	Yaw [N·m]		2.0	2.0	2.0	2.0
Moment Stiffness	Pitch ["/N·cm]		1.8	1.8	3.4	3.4
	Roll ["/N·cm]		1.6	1.6	3.4	3.4
	Yaw ["/N·cm]		2.0	2.0	3.2	3.2
Parallelism [μm]			30	30	50	50
Running Parallelism [μm]			10	10	20	20
Orthogonality [μm]			—	—	10	10
Options			FP/DL	FP	FP/DL	FP
Weight [kg]			0.07	0.07	0.14	0.14

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-42525	0.25	—	E008
DL	Differential Micrometer Heads	MDC-6.5	0.5	0.01	

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

* Installation may not be possible depending on the direction of DL.

* The suffix “-C” type uses adhesive for fixing the micrometer. Please contact our International Sales Division for more information on replacement.

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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

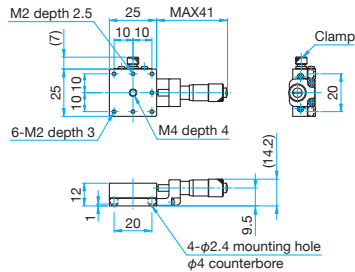
120 × 120 mm

Others

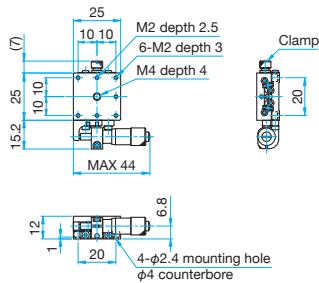


Outline Drawing

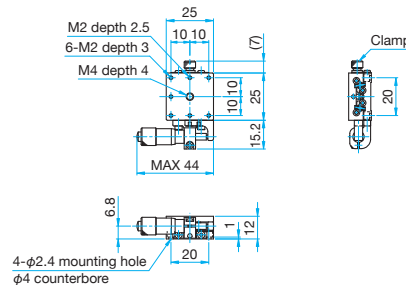
TSDH-251C Hexagonal socket head cap screw
(stainless steel construction) M2×4...4 screws



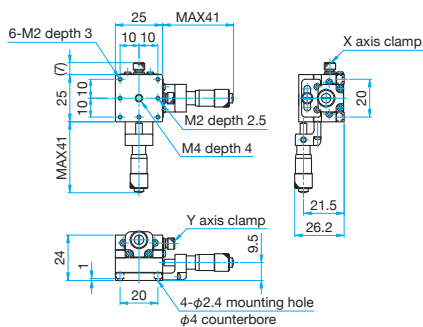
TSDH-251S Hexagonal socket head cap screw
(stainless steel construction) M2×4...4 screws



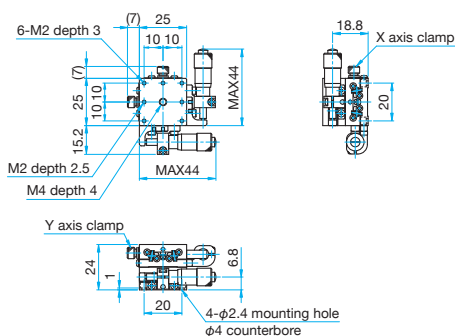
TSDH-251SR Hexagonal socket head cap screw
(stainless steel construction) M2×4...4 screws



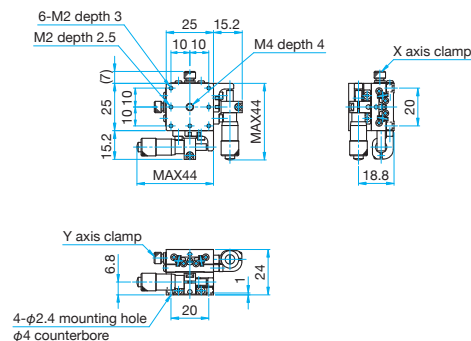
TSDH-252WC Hexagonal socket head cap screw
(stainless steel construction) M2×4...4 screws



TSDH-252WS Hexagonal socket head cap screw
(stainless steel construction) M2×4...4 screws



TSDH-252WSR Hexagonal socket head cap screw
(stainless steel construction) M2×4...4 screws



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