

Z Axis General-Purpose Stainless Steel Translation Stages (Vertical Mounting)

Stage Size 25 × 25 mm / 40 × 40 mm / 60 × 60 mm

TSDH-SZ

RoHS

Catalog
Code

W7153

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

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



Guide

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

Attention

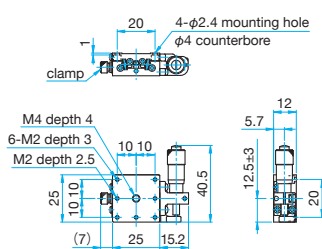
- ▶ Micrometer brackets may extend above the top surface of some stages. Check drawings for more information.
- ▶ Note that some samples might not be able to be fixed on the stage depending on their shapes, or required travel might not be ensured.



Outline Drawing

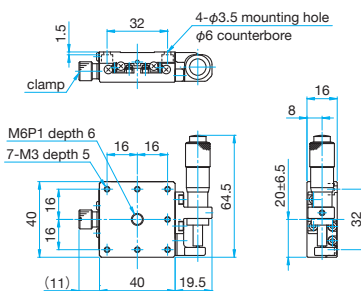
TSDH-251SZ

Hexagonal socket head cap screw (stainless steel construction) M2×4...4 screws



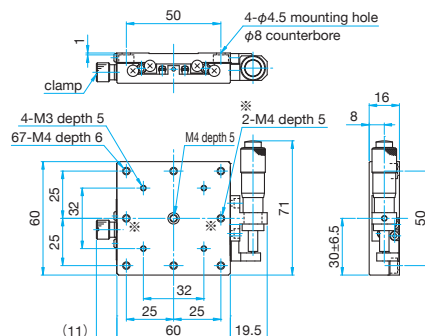
TSDH-401SZ

Hexagonal socket head cap screw (stainless steel construction) M3×6...4 screws, Spring washers



TSDH-601SZ

Hexagonal socket head cap screw (stainless steel construction) M4×6...4 screws



Specifications

Part Number	METRIC	TSDH-251SZ	TSDH-401SZ	TSDH-601SZ
Stage Size [mm]		25×25	40×40	60×60
Axes of Travel		Z axis		
Micrometer Position		Side		
Travel [mm]		±3	±6.5	±6.5
Lead of Actuator [mm/rotation]		0.5	0.5	0.5
Micrometer Readable Resolution [mm]		0.01	0.01	0.01
Guide Method		Extended contact ball bearing guide		
Primary Material		SUS440C quench hardened		
Finish		Electroless nickel		
Load Capacity [N]		14.7N (1.5kgf)	24.5N (2.5kgf)	29.4N (3.0kgf)
Travel Accuracy	Straightness [μm]	1	1	1
Max. Moment Capacity	Pitch [N·m]	1.7	4	6.4
	Roll [N·m]	1.8	4	6.4
Moment Stiffness	Pitch [°/N·cm]	1.9	0.4	0.25
Running Parallelism [μm]		20	20	20
Options		FP ¹	FP ²	FP ²
Weight [kg]		0.07	0.2	0.45

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 ¹ FPSA-62540 ²	0.25	—	E008

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