

## X axis Steel Extended Contact Slide Stages | MLT31-25 Stage size □25mm

RoHS

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X Axis

XY Axis

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XYZ Axis

Rotation

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Multiaxis

Linear Guide

□15mm

□25mm

□40mm

□50mm

□60mm

□70mm

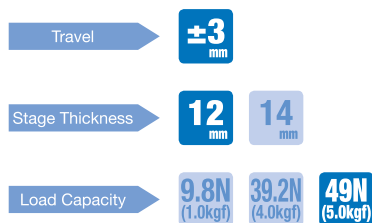
□80mm

□100mm

□120mm

Others

**Hardened Steel linear stages with integrated bearing ways for superior stiffness, accuracy and durability.**



### Guide

- ▶ Stainless steel types (TSDS-251) are available for superior corrosion resistance. [Reference](#) G026
- ▶ The part number suffix FP indicates products with fine-pitch screws instead of standard micrometers.
- ▶ Fine Pitch screws have a screw pitch of 0.25mm and require a hex wrench or the optional hex wrench with knob (NSC) for adjustment. [Reference](#) H010



### Attention

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

SPEC UP

### Specifications

Table Size [mm]	25×25	
Travel [mm]	±3	
Positioning Slide	Extended contact ball guide	
Primary Material	Steel	
Finish	Super black chrome	
Load Capacity [N]	49 (5.0kgf)	
Travel Accuracy	Straightness [μm]	1
	Pitch [°]	30 (35 for S type)
	Yaw [°]	25 (35 for S type)
Max. Moment Capacity	Pitch [N·m]	3.0
	Roll [N·m]	3.7
	Yaw [N·m]	1.5
Moment Stiffness	Pitch [°/N·cm]	1.8
	Roll [°/N·cm]	1.6
	Yaw [°/N·cm]	2
Parallelism [μm]	30	
Running Parallelism [μm]	10	

Part Number	MLT31-25C	MLT31-25CFP	MLT31-25S MLT31-25SR	MLT31-25SFP MLT31-25SRFP
Opposite Model	—	—	—	—
Micrometer Position	Center	Center	Side	Side
Lead of Actuator [mm/rotation]	0.5	0.25	0.5	0.25
Micrometer Readable Resolution [mm]	0.01	—	0.01	—
Weight [kg]	0.07	0.07	0.07	0.07

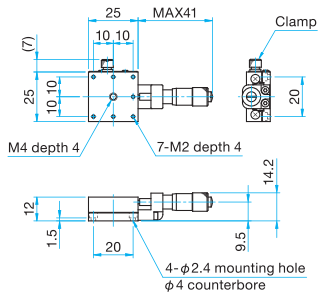
Catalog Code **W7001**



**Outline Drawing**

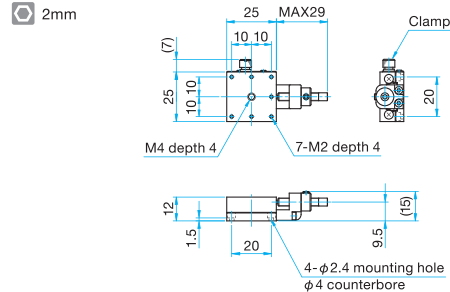
**MLT31-25C**

Hexagonal socket head cap screw M2x4...4 screws



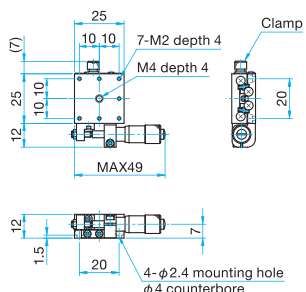
**MLT31-25CFP**

Hexagonal socket head cap screw M2x4...4 screws



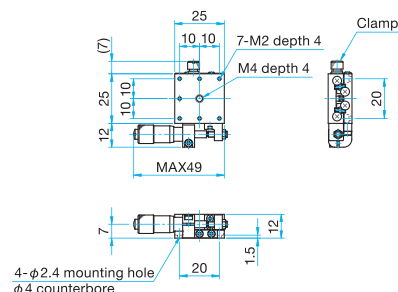
**MLT31-25S**

Hexagonal socket head cap screw M2x4...4 screws



**MLT31-25SR**

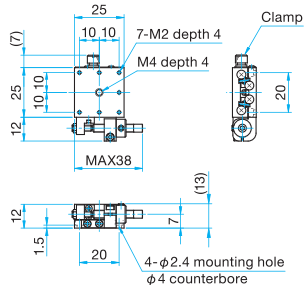
Hexagonal socket head cap screw M2x4...4 screws



**MLT31-25SFP**

Hexagonal socket head cap screw M2x4...4 screws

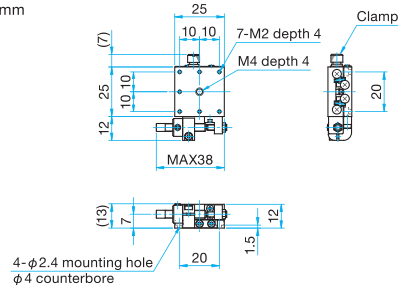
2mm



**MLT31-25SRFP**

Hexagonal socket head cap screw M2x4...4 screws

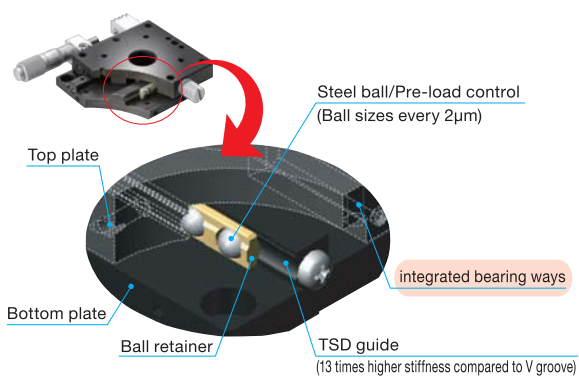
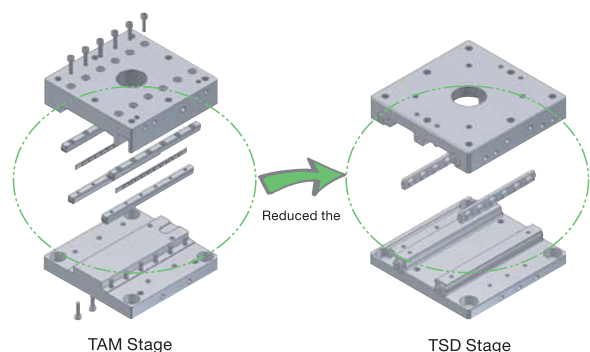
2mm



**Application Note**

**Crossed Roller Type**

**Extended Contact Ball Guide Type**



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