



X axis Steel Extended Contact Slide Stages | **MLT31-40** Stage size ☐40mm

RoHS

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X Axis

XY Axis

Z Axis

XZ Axis

XYZ Axis

Rotation

Goniometers /Tilt

Multiaxis

Linear Guide

☐15mm

☐25mm

☒40mm

☐50mm

☐60mm

☐70mm

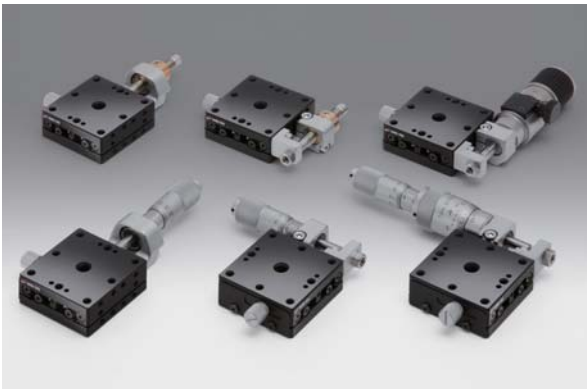
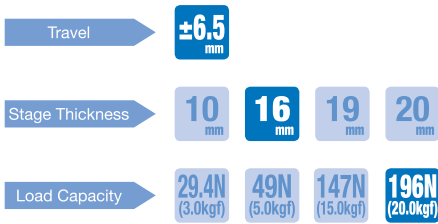
☐80mm

☐100mm

☐120mm

Others

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



Guide

- Stainless steel types (TSDS-401) 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]		40×40
Travel [mm]		±6.5
Positioning Slide		Extended contact ball guide
Primary Material		Steel
Finish		Super black chrome
Load Capacity [N]		196 (20.0kgf)
Travel Accuracy	Straightness [μm]	1
	Pitch ["]	30
	Yaw ["]	25
Max. Moment Capacity	Pitch [N·m]	7.8
	Roll [N·m]	7.8
	Yaw [N·m]	5.0
Moment Stiffness	Pitch ["/N·cm]	0.3
	Roll ["/N·cm]	0.2
	Yaw ["/N·cm]	0.23
Parallelism [μm]		30
Running Parallelism [μm]		10

Part Number	MLT31-40C	MLT31-40CFP	MLT31-40S	MLT31-40SFP	MLT31-40SDM	MLT31-40SWP
Opposite Model	—	—	MLT31-40SR	MLT31-40SRFP	MLT31-40SRDM	—
Micrometer Position	Center	Center	Side	Side	Side	Side
Lead of Actuator [mm/rotation]	0.5	0.25	0.5	0.25	Coarse: 0.5 Fine: 0.025	Coarse: 0.25 Fine: 0.005
Micrometer Readable Resolution [mm]	0.01	—	0.01	—	Coarse: 0.01 Fine: 0.0005	Coarse: 0.005 Fine: 0.0005
Weight [kg]	0.2	0.2	0.2	0.2	0.26	0.2

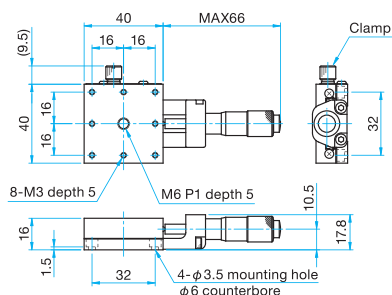
Catalog Code **W7002**



Outline Drawing

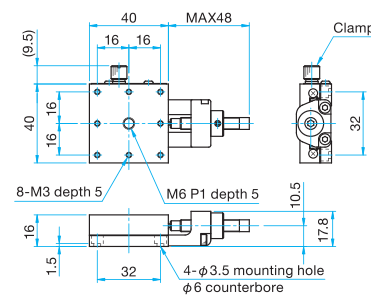
MLT31-40C

- Hexagon socket head cap screw M3x6...4 screws
- Spring washers



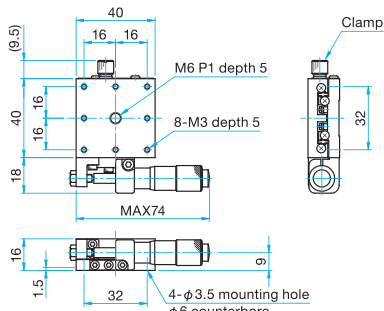
MLT31-40CFP

- Hexagon socket head cap screw M3x6...4 screws
- Spring washers
- 3mm



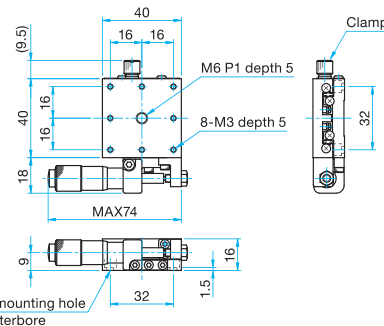
MLT31-40S

- Hexagon socket head cap screw M3x6...4 screws
- Spring washers



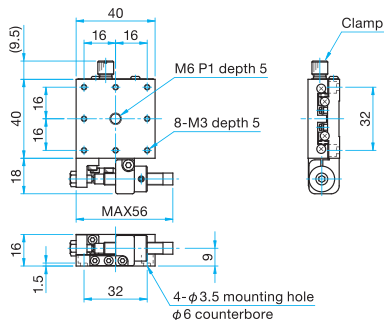
MLT31-40SR

- Hexagon socket head cap screw M3x6...4 screws
- Spring washers



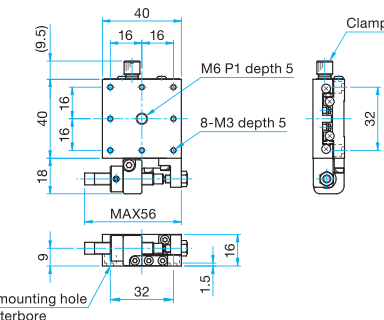
MLT31-40SFP

- Hexagon socket head cap screw M3x6...4 screws
- Spring washers
- 3mm



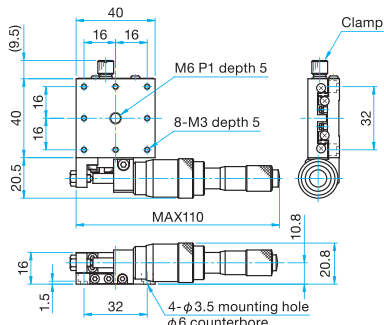
MLT31-40SRFP

- Hexagon socket head cap screw M3x6...4 screws
- Spring washers
- 3mm



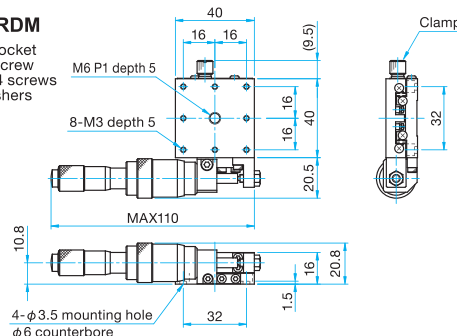
MLT31-40SDM

- Hexagon socket head cap screw M3x6...4 screws
- Spring washers



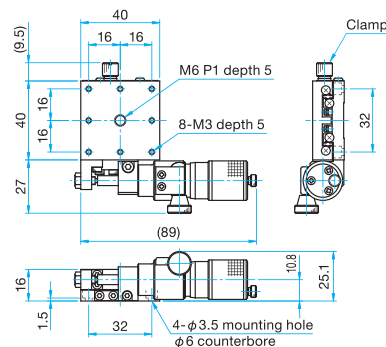
MLT31-40SRDM

- Hexagon socket head cap screw M3x6...4 screws
- Spring washers



MLT31-40SWP

- Hexagon socket head cap screw M3x6...4 screws
- Spring washers



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