

X axis Preset Stages

MLT21 Stage size 15/25/40/60mm

RoHS

Application Systems

Machine Vision

Manual Positions

Motion Control Products

Optical & Mirror Holder

F A Parts

Measurement & Control

FA Electrical Parts

Tool & Measure

Cleanroom & AntiStatic

Index

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

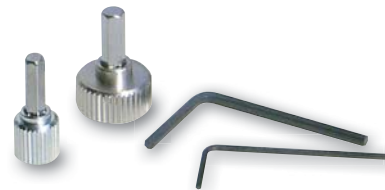
Preset stages with dovetail slide guide and leadscrew adjustment system, suitable for assembly in systems.

- Ideal for less frequent operations, fine adjustment or permanent fixation.
- These stages have a block shape with minimal protrusions including the adjustment knob, in order to minimizing the installation space.

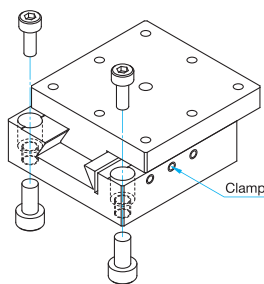


Guide

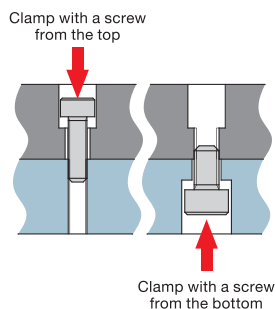
- ▶ A hex wrench with knob and clamping wrench are included.



Mounting Method



Detailed Illustration



Top mounting

Tapped holes are used as counterbores because screws are smaller than tapped holes and will go in without any interference.

Bottom mounting

Clamp with screws that match the specification of tapped holes.

About Mounting Holes

The bottom mounting holes of preset stages are tapped holes. These stages allow mounting from the top or the bottom, convenient for securing on optical breadboards or other instruments as well as assembling in systems. Use the screws of the sizes listed in the table on the right for mounting.

Part Number	Secure from the top	Secure from the bottom
MLT21-15	M2	M2.6
MLT21-25	M2	M3
MLT21-40	M3	M4
MLT21-60	M4	M5

* When mounting from the top surface, slide the top surface to insert screws in mounting holes.

SPEC UP

Specifications

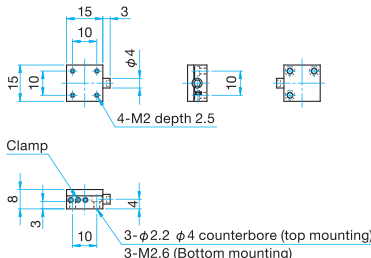
Part Number		MLT21-15	MLT21-25	MLT21-40	MLT21-60
Table Size [mm]		15×15	25×25	40×40	60×60
Travel [mm]		±2	±3	±7	±10
Positioning Slide		Dovetail method	Dovetail method	Dovetail method	Dovetail method
Primary Material		Brass	Brass	Brass	Brass
Finish		Super black chrome	Super black chrome	Super black chrome	Super black chrome
Screw Pitch [mm]		0.4	0.5	0.5	0.5
Load Capacity [N]		9.8 (1.0kgf)	49 (5.0kgf)	98.1 (10.0kgf)	147 (15.0kgf)
Travel Accuracy	Straightness [μm]	10	10	10	10
Max. Moment Capacity	Pitch [N·m]	0.5	2.0	4.0	5.1
	Roll [N·m]	0.5	2.0	3.75	5.1
	Yaw [N·m]	0.2	1.0	3.0	4.0
Moment Stiffness	Pitch [°/N·cm]	8.0	2.0	0.61	0.4
	Roll [°/N·cm]	7.0	1.5	0.51	0.3
Parallelism [μm]		50	50	50	50
Weight [kg]		0.02	0.06	0.2	0.5



Outline Drawing

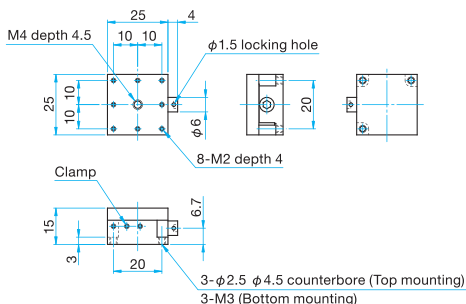
MLT21-15

- Pan head screw M2x5...3 screws, One 2.5mm hex wrench with knob, One 0.89mm hex wrench
- Wrench size for adjustment 2.5mm, Wrench size for clamp 0.89mm



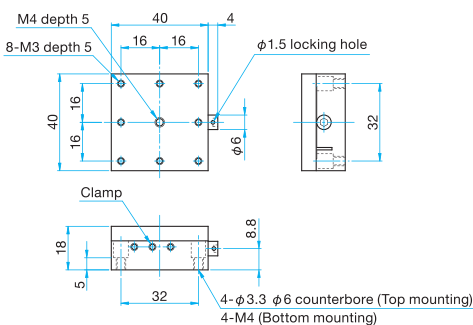
MLT21-25

- Pan head screw M2x6...3 screws, One 3mm hex wrench with knob, One 0.89mm hex wrench
- Wrench size for adjustment 3mm, Wrench size for clamp 0.89mm



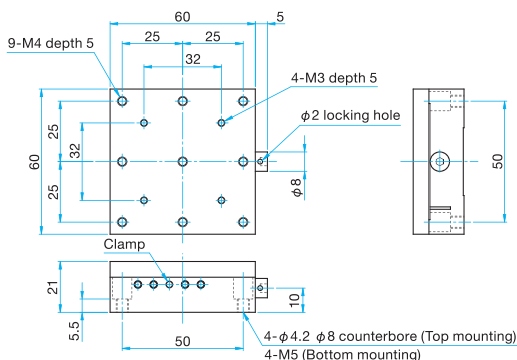
MLT21-40

- Pan head screw M3x8...4 screws, One 3mm hex wrench with knob, One 1.5mm hex wrench
- Wrench size for adjustment 3mm, Wrench size for clamp 1.5mm



MLT21-60

- Hexagonal socket head cap screw M4x10...4 screws, One 3mm hex wrench with knob, One 1.5mm hex wrench
- Wrench size for adjustment 3mm, Wrench size for clamp 1.5mm



Application Systems

Machine Vision

Manual Positions

Motion Control Products

Optical & Mirror Holder

F A Parts

Measurement & Control

FA Electrical Parts

Tool & Measure

Cleanroom & AntiStatic

Index

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