

Miniature Linear Stage



Features

- Non-contact direct-drive linear motor drive for high dynamic response
- Optical linear encoder for high precision
- High stiffness anti-creep cross roller guide
- Excellent positioning accuracy and dynamic performance

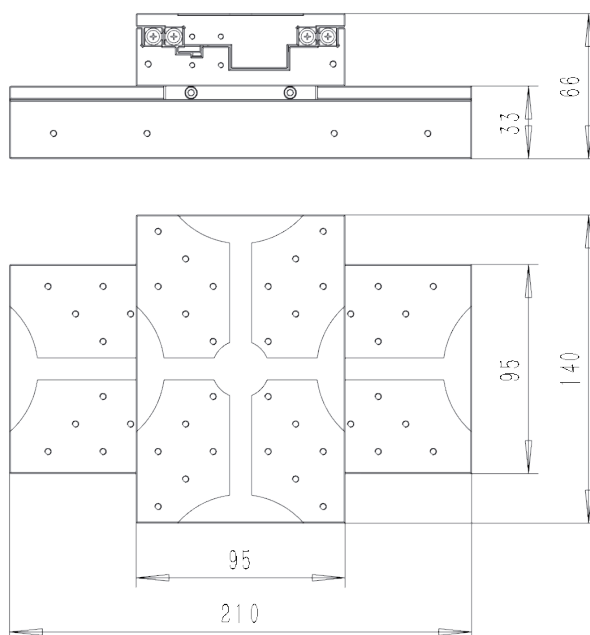
Description

Miniature linear stage with ultra-thin profile dimensions for single-axis and multi-axis use cases, realizing high-precision and high-stiffness horizontal linear motion.

Applications

- Laser cutting
- Flat panel display
- Semiconductor
- Automation

Interface Definition



Technical Specifications

	MTS80-25	MTS80-50
Travel range	±25 mm	±50 mm
Max. velocity	0.5 m/s	0.5 m/s
Max. acceleration	0.5 g	0.5 g
Bidirectional repeatability	±0.3 μm	±0.3 μm
Accuracy_calibration value	±0.5 μm	±0.5 μm
Straightness	±1 μm	±1 μm
Flatness	±1 μm	±1 μm
Pitch	75 μrad	75 μrad
Yaw	50 μrad	50 μrad
Max. load	4 Kg	6 Kg
Peak force	23.8 N	35.7 N
Continuous force	6.0 N	8.9 N
Moving mass	0.71 Kg	1.08 Kg
Total mass	1.49 Kg	2.35 Kg
Dimensions	140 mm X 95 mm X 33 mm	210 mm X 95 mm X 33 mm