

$\alpha(\beta)$ axis Tilt Stages | MAT1 Stage size ☐25/☐40/☐60/☐100mm

RoHS

Tilt stages for adjusting the tilt of a sample on the table top to an arbitrary angle.
The control component (adjustment ring) is located on the side of the stage to minimize protrusions.
Use the AIS-B series with surface load because it has three-point support structure.

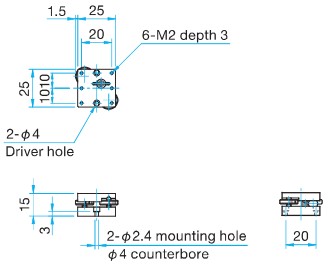


- The adjustment ring type is ideal for quick and easy tilt adjustment.
- The micrometer type is effective in confined spaces where vertical control from the top is required.

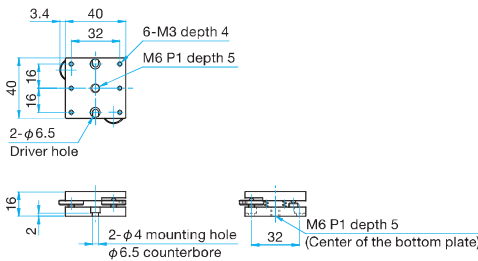


Outline Drawing

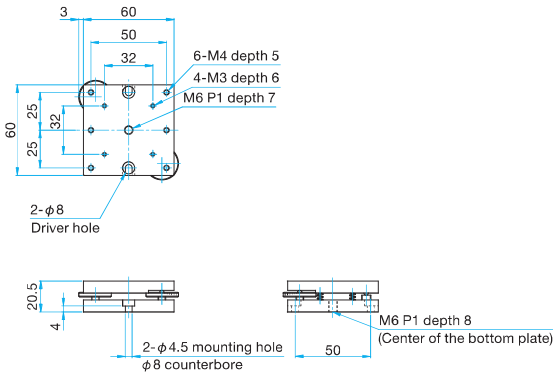
MAT11-25 Pan head screw M2x6...2 screws, Flat washers



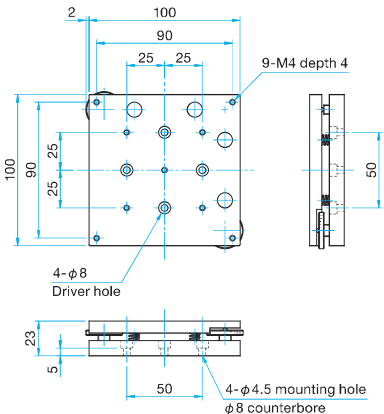
MAT11-40 Pan head screw M3x6...2 screws, Flat washers



MAT11-60 Hexagonal socket head cap screw M4x8...2 screws



MAT11-100 Hexagonal socket head cap screw M4x10...4 screws
Spring washers



Specifications

Part Number	MAT11-25	MAT11-40	MAT11-60	MAT11-100
Table Size [mm]	25×25	40×40	60×60	100×100
Tilt Range [°]	±2	±2	±2	±2
Travel per Knob Rotation [°]	about 1.8	about 1	about 0.65	about 0.36
Primary Material	Aluminum	Aluminum	Aluminum	Aluminum
Finish	Black anodized	Black anodized	Black anodized	Black anodized
Load Capacity [N]	9.8 (1.0kgf)	29.4 (3.0kgf)	49.0 (5.0kgf)	68.6 (7.0kgf)
Weight [kg]	0.04	0.06	0.17	0.51

Guide

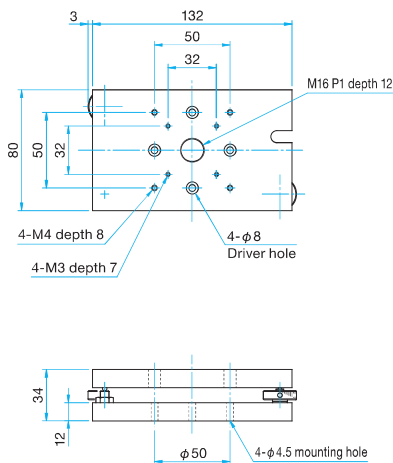
► Since the table sizes of MAT11-8013/1016/1622 are the same as that of the precision labjacks (LJ/LJA), these can be used in combination with the labjacks. [Reference](#) ▶ G100



Outline Drawing

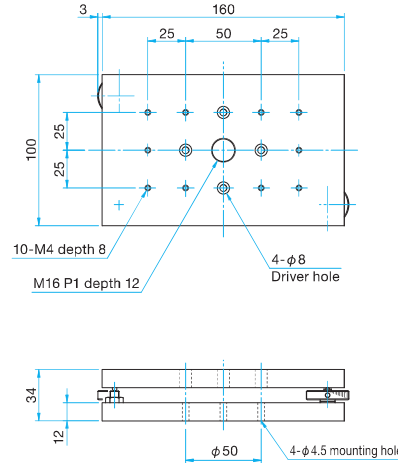
MAT11-8013

Hexagonal socket head cap screw M4×16...4 screws



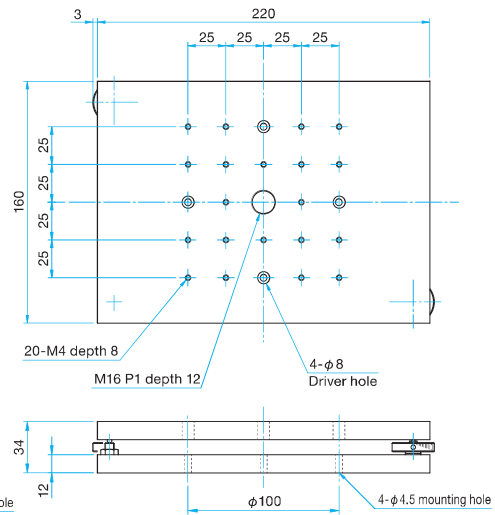
MAT11-1016

Hexagonal socket head cap screw M4×16...4 screws



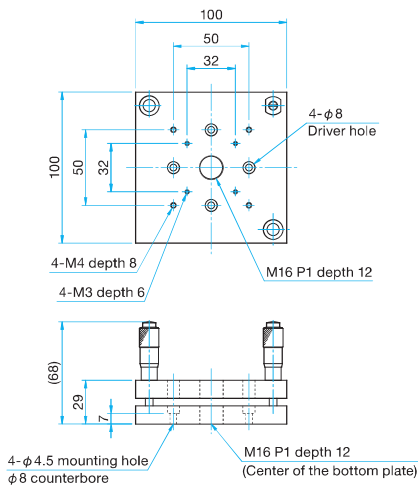
MAT11-1622

Hexagonal socket head cap screw M4×16...4 screws



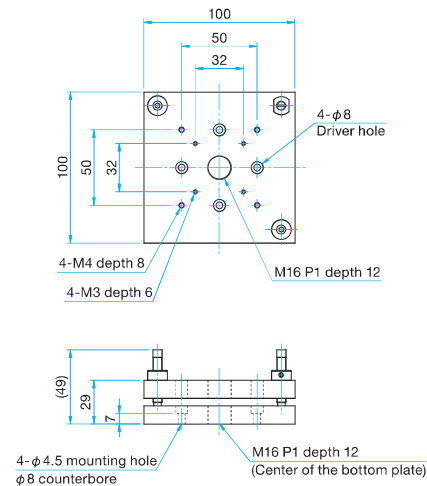
MAT11-100CM

Hexagonal socket head cap screw M4×12...4 screws, Spring washers



MAT11-100CFP

Hexagonal socket head cap screw M4×12...4 screws, Spring washers 3mm



Specifications

Part Number		MAT11-8013	MAT11-1016	MAT11-1622	MAT11-100CM	MAT11-100CFP
Table Size [mm]		80×132	100×160	160×220	100×100	100×100
Tilt Range [°]	(α axis) Narrow side direction	±0.8	±0.7	±0.6	±3	±3
	(β axis) Long side direction	±1.4	±1.2	±0.7	±3	±3
Travel per Knob Rotation [°]	(α axis) Narrow side direction	about 0.37	about 0.32	about 0.22	about 0.35	about 0.28
	(β axis) Long side direction	about 0.74	about 0.6	about 0.33	about 0.35	about 0.28
Primary Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Finish		Black anodized	Black anodized	Black anodized	Black anodized	Black anodized
Load Capacity [N]		78.4 (8.0kgf)	98.0 (10.0kgf)	98.0 (10.0kgf)	68.6 (7.0kgf)	68.6 (7.0kgf)
Weight [kg]		0.8	1.2	2.5	0.6	0.6

Application Systems

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F A Parts

Measurement & Control

FA Electrical Parts

Tool & Measure

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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