

Tip/Tilt/Rotation stages for adjusting the angle of a sample on the table top over a limited range.

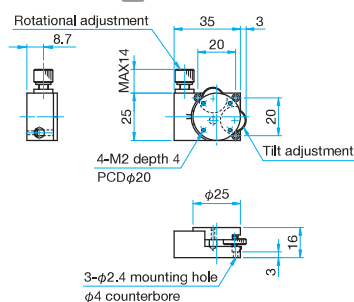
- There are two dials for Tip and tilt adjustment and a thumb screw for rotational adjustment.
- Designed strictly for light loads centered on the platform.



Outline Drawing

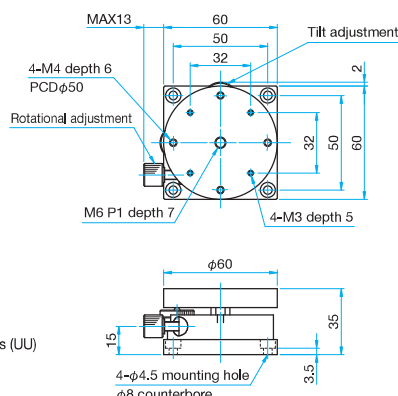
KKD-25C

ⓘ Pan head screw M2×6...3 screws



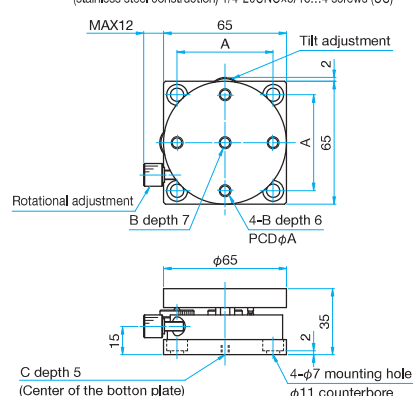
KKD-60C

ⓘ Hexagonal socket head cap screw M4×8...4 screws



KKD-65C-M6/65CUU

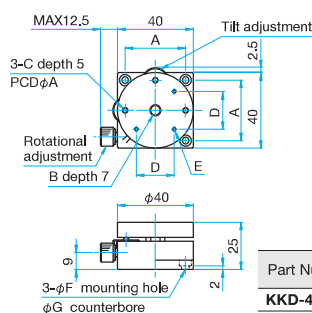
ⓘ Hexagonal socket head cap screw M6×8...4 screws (M6)
Hexagonal socket head cap screw (stainless steel construction) 1/4-20UNC×5/16...4 screws (UU)



Part Number	A (mm)	B	C
KKD-65C-M6	50	M6 P1	M4
KKD-65CUU	50.8	1/4-20UNC	8-32UNC

KKD-40C/40CUU

ⓘ Pan head screw M3×6...3 screws
Hexagonal socket head cap screw 6-32UNC×1/4...3 screws (UU)



Part Number	A (mm)	B	C	D (mm)	E	F (mm)	G (mm)
KKD-40C	32	M6 P1	M3	20	3-M2 depth 4	3.5	6
KKD-40CUU	31.75	1/4-20UNC	6-32UNC			4	6.5

Specifications

Part Number	METRIC	KKD-25C	KKD-40C	KKD-60C	KKD-65C-M6
	INCH	—	KKD-40CUU	—	KKD-65CUU
Stage Size [mm]		φ25	φ40	φ60	φ65
Rotation Range [mm]		±3	±3	±3	±3
Tilt Range [°]	α axis	±3	±3	±3	±3
	β axis	±3	±3	±3	±3
Travel per Knob Rotation [°]	θ axis	about 0.9	about 2	about 1.7	about 1.68
	α axis	about 2.2	about 1.5	about 1	about 1.2
	β axis	about 2.2	about 1.5	about 1	about 1.2
Primary Material		Aluminum			
Finish		Black anodized			
Load Capacity [N]		1 (0.1kgf)	2 (0.2kgf)	4.9 (0.5kgf)	4.9 (0.5kgf)
Weight [kg]		0.05	0.1	0.3	0.5

Two Axis Tilt Stages | AIS

RoHS

Tilt stages for adjusting the tilt of a sample on the table top to an arbitrary angle.
The adjustment knobs are located on the side of the stage to minimize protrusions.



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

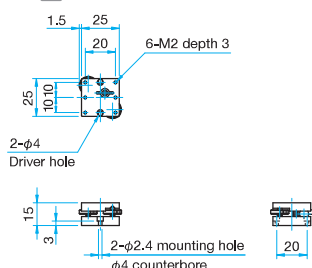
Attention

- Please use in surface load because the three-point support structure. It can not be used hanging on the wall or upside down.

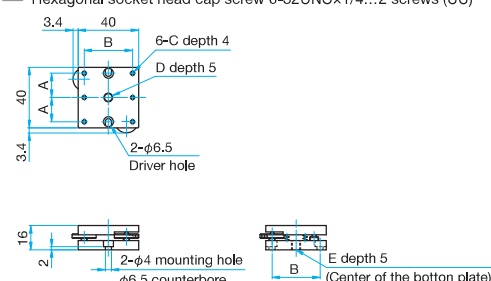


Outline Drawing

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

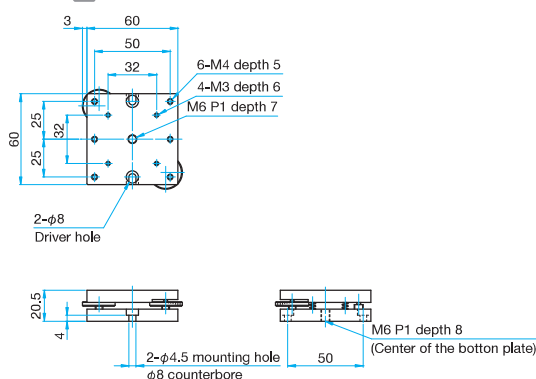


AIS-40B/40BUU Pan head screw M3x6...2 screws, Flat washers
Hexagonal socket head cap screw 6-32UNCx1/4...2 screws (UU)

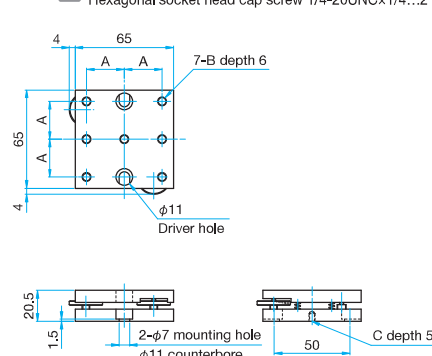


Part Number	A (mm)	B (mm)	C	D	E
AIS-40B	16	32	M3	M6 P1	M6 P1
AIS-40BUU	15.875	31.75	6-32UNC	1/4-20UNC	8-32UNC

AIS-60B Hexagonal socket head cap screw M4x8...2 screws



AIS-65B-M6/65BUU Hexagonal socket head cap screw M6x6...2 screws (M6)
Hexagonal socket head cap screw 1/4-20UNCx1/4...2 screws (UU)



Part Number	A (mm)	B	C
AIS-65B-M6	25	M6 P1	M4
AIS-65BUU	25.4	1/4-20UNC	8-32UNC

Specifications

Part Number	METRIC	AIS-25B	AIS-40B	AIS-60B	AIS-65B-M6
	INCH	—	AIS-40BUU	—	AIS-65BUU
Stage Size [mm]		25×25	40×40	60×60	65×65
Tilt Range [°]		±2	±2	±2	±2
Travel per Knob Rotation [°]		about 1.8	about 1	about 0.65	about 0.58
Primary Material		Aluminum			
Finish		Black anodized			
Load Capacity [N]		9.8 (1.0kgf)	29.4 (3.0kgf)	49.0 (5.0kgf)	49.0 (5.0kgf)
Weight [kg]		0.04	0.06	0.17	0.2

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Crossed Roller

Dovetail

Lapping

V Groove Screw

Others

15 × 15 mm

25 × 25 mm

40 × 40 mm

60 × 60 mm

65 × 65 mm

80 × 80 mm

100 × 100 mm

120 × 120 mm

Others

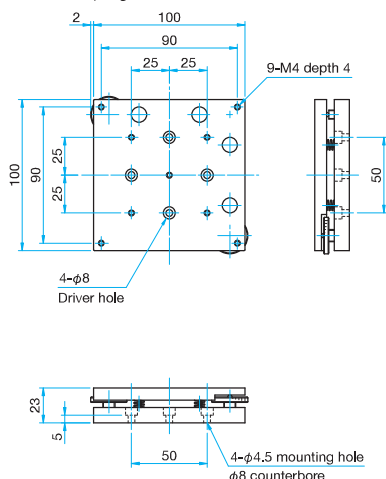
Guide

► Since the Stage Sizes of AIS-8013B/1016B/1622B are the same as that of the precision labjacks (LJ/LJA), these can be used in combination with the labjacks. [Reference](#) E114 [Catalog Code](#) W7055

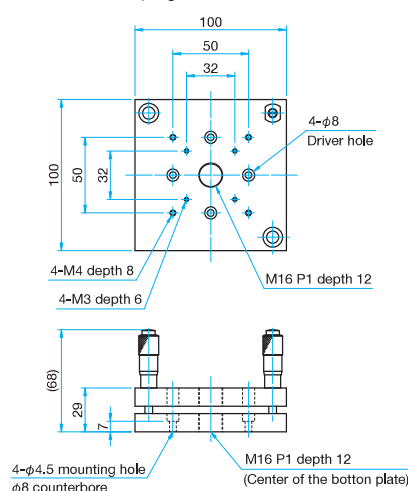


Outline Drawing

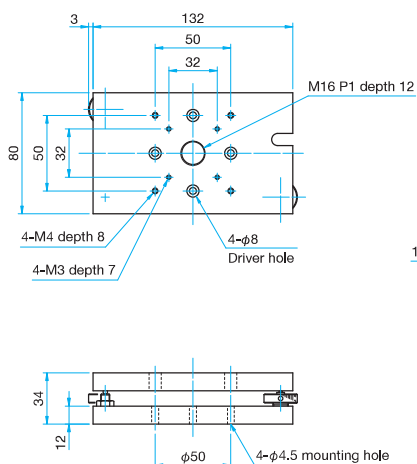
AIS-100B Hexagonal socket head cap screw M4×10...4 screws, Spring washers



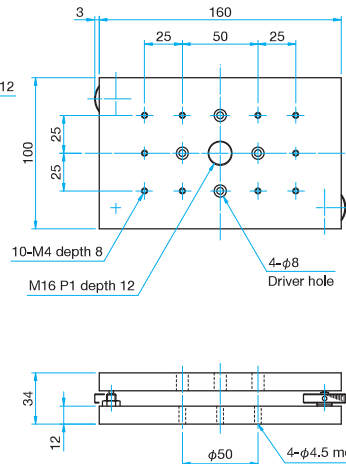
AIS-100CM Hexagonal socket head cap screw M4×12...4 screws, Spring washers



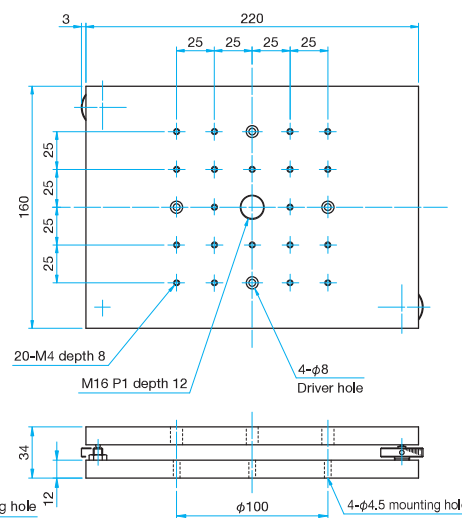
AIS-8013B Hexagonal socket head cap screw M4×16...4 screws



AIS-1016B Hexagonal socket head cap screw M4×16...4 screws



AIS-1622B Hexagonal socket head cap screw M4×16...4 screws



Specifications

Part Number	METRIC	AIS-100B	AIS-100CM	AIS-8013B	AIS-1016B	AIS-1622B
Stage Size [mm]		100×100	100×100	80×130	100×160	160×220
Tilt Range [°]	α axis (Narrow side direction)	±2	±3	±1.4	±1.2	±0.7
	β axis (Long side direction)	±2	±3	±0.8	±0.7	±0.6
Travel per Knob Rotation [°]	α axis (Narrow side direction)	about 0.36	about 0.35	about 0.74	about 0.6	about 0.33
	β axis (Long side direction)	about 0.36	about 0.35	about 0.37	about 0.32	about 0.22
Primary Material		Aluminum				
Finish		Black anodized				
Load Capacity [N]		68.6 (7.0kgf)	68.6 (7.0kgf)	78.4 (8.0kgf)	98.0 (10.0kgf)	98.0 (10.0kgf)
Weight [kg]		0.51	0.6	0.8	1.2	2.5

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V Groove Screw

Others

15 × 15 mm

25 × 25 mm

40 × 40 mm

60 × 60 mm

65 × 65 mm

80 × 80 mm

100 × 100 mm

120 × 120 mm

Others