

Rotation Stages to with Aperture | KSPA

RoHS

Application Systems

Optics & Optical Coatings

Opto-Mechanics

Bases

Manual Stages

Actuators & Adjusters

Motorized Stages

Light Sources & Laser Safety

Index

Guide

X Axis Stages

XY Axis Stages

Z Axis Stages

XZ Axis Stages

XYZ Axis Stages

Rotation Stages

Goniometer

Tilt Stages

Vacuum

Ball Bearing Guide

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

Low profile rotation stages offer coarse rotation adjustment of 360° and fine adjustment (with either a micrometer head or fine-pitch screw).

Directly rotate the stage upper plate for coarse adjustment, then clamp the clutch screw and use micrometer head or fine-pitch screw ($\pm 5^\circ$) for fine adjustment.

- Light-weight and high precision design.
- Vernier scales for reading angular position.
- Center hole extends completely through stage.
- Available with micrometers or fine pitch screws.



Guide

- Most stages can be directly mounted to corresponding sized linear stages for multiple axis adjustments.
- Using the top plate for KSP/KSPA (SP-103) to convert mounting holes, various stages can be mounted.
[Reference](#) D038 [Catalog Code](#) W6059
- Mounting holes can be converted using the bottom plate for KSPA-806M/1006M (SP-117). [Reference](#) D039 [Catalog Code](#) W6063

Specifications					
Part Number	METRIC	KSPA-806M	KSPA-986M	KSPA-806MH	KSPA-1006MH
Stage Size [mm]		$\phi 80$	$\phi 98$	$\phi 57$	$\phi 76$
Rotation Range [°]		Coarse: 360 Fine: ± 5	Coarse: 360 Fine: ± 5	Coarse: 360 Fine: ± 5	Coarse: 360 Fine: ± 3
Scale Readable Resolution		5'	5'	5'	5'
Micrometer Readable Resolution		about 1'08.8"	about 52.9"	about 51.6"	about 42.1"
Guide Method		Lapping method			
Primary Material		Aluminum			
Finish		Black anodized			
Load Capacity [N]		58.8 (6.0kgf)	68.6 (7.0kgf)	49.0 (5.0kgf)	68.6 (7.0kgf)
Max. Moment Capacity [N·m]		1.0	1.0	0.88	0.98
Moment Stiffness ["/N·cm]		0.8	0.8	0.61	0.2
Parallelism [μ m]		50	50	30	40
Eccentricity [μ m]		20	20	20	20
Wobble [μ m]		20	20	20	20
Options		FP	FP	FP	FP
Weight [kg]		0.5	0.7	0.45	0.6

Option				
Option Code	Compatible product		Micrometer Readable Resolution [mm]	Reference
	Products Name	Part Number		
FP	Fine-pitch Screw Adjusters	FPSA-62540	—	E008

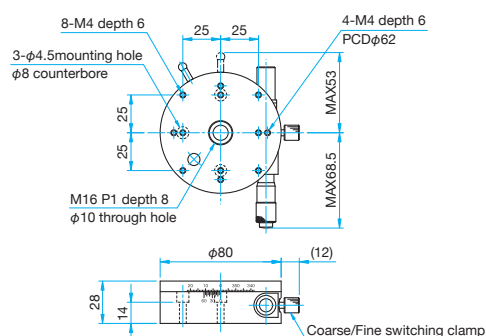
* Please add an option code as the part number suffix to specify various optional specifications.

* The FP type requires a hex wrench or the optional hex wrench with knob (KCL) for driving operation. [Reference](#) F010 [Catalog Code](#) W8008

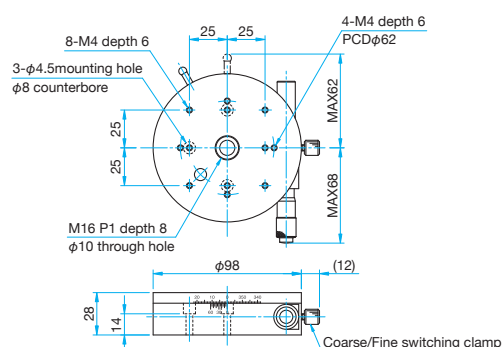


Outline Drawing

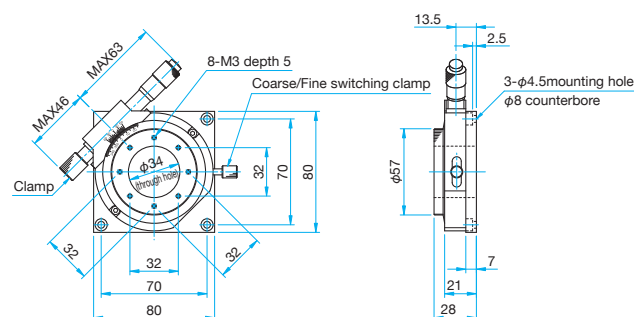
KSPA-806M Hexagonal socket head cap screw M4×20...3 screws, Spring washers



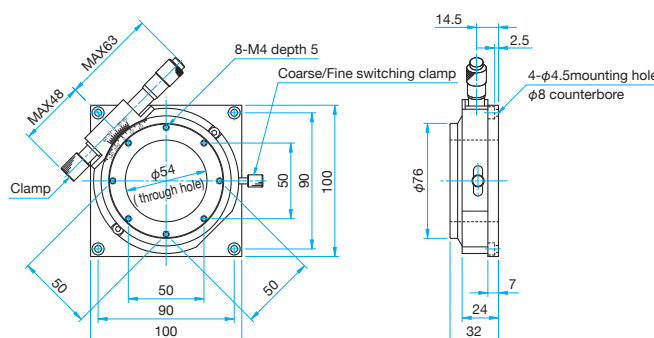
KSPA-986M Hexagonal socket head cap screw M4×20...3 screws, Spring washers



KSPA-806MH Hexagonal socket head cap screw M4×8...4 screws, Spring washers



KSPA-1006MH Hexagonal socket head cap screw M4×8...4 screws, Spring washers



Application
Systems

Optics &
Optical
Coatings

Opto-
Mechanics

Bases

Manual
Stages

Actuators &
Adjusters

MotORIZED
Stages

Light Sources &
Laser Safety

Index

Guide

X Axis Stages

XY Axis Stages

Z Axis Stages

XZ Axis Stages

XYZ Axis Stages

Rotation Stages

Goniometer

Tilt Stages

Vacuum

Ball Bearing Guide

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