

Rotation Stages

KSP-256/406
KSP-606/656/786

RoHS
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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.

- The main body of these stages is made of brass for high stiffness and incorporate plain bearings for high performance and small size.
- The through hole at the center of the stage can be used as a transmission hole.
- A scale around the circumference provides an indication of the angle.



Guide

- ▶ Most stages can be directly mounted to corresponding sized linear stages for multiple axis adjustments.
- ▶ Using the top plate for KSP-406 (SP-123) to convert mounting holes, various stages can be mounted.
[Reference](#) D044 [Catalog Code](#) W6068
- ▶ Using the top plate for KSP/KSPA (SP-103) to convert mounting holes, various stages can be mounted.
[Reference](#) D042 [Catalog Code](#) W6059
- ▶ Using the bottom plate for KSP-786M (SP-104) to convert mounting holes, mounting on magnet bases or 60 × 60mm stages (M4 50×50) is possible. [Reference](#) D042 [Catalog Code](#) W6060

Specifications

Part Number	METRIC	KSP-256	KSP-406M	KSP-606M	KSP-656M-M6	KSP-786M
	INCH	—	KSP-406MUU	—	KSP-656MUU	—
(Opposite Model)	METRIC	—	KSP-406MR	KSP-606MR	—	—
Stage Size [mm]		φ25	φ40	φ60	φ65	φ60
Rotation Range [°]		Coarse: 360 Fine: ± 5	Coarse: 360 Fine: ± 5	Coarse: 360 Fine: ± 5	Coarse: 360 Fine: ± 5	Coarse: 360 Fine: ± 5
Scale Readable Resolution		2°	2°	1°	1°	5'
Micrometer Readable Resolution		—	about 1'24.2"	about 55.8"	about 52.2"	about 51.6"
Guide Method		Lapping method				
Primary Material		Brass				Aluminum
Finish		Super black chrome				Black anodized
Load Capacity [N]		29.4 (3.0kgf)	49.0 (5.0kgf)	68.6 (7.0kgf)	68.6 (7.0kgf)	49 (5.0kgf)
Max. Moment Capacity [N·m]		0.15	0.3	0.75	0.75	1.3
Moment Stiffness ["/N·cm]		6.1	1.5	0.4	0.4	1.5
Parallelism [μm]		20	20	20	20	50
Eccentricity [μm]		20	20	20	20	20
Wobble [μm]		15	20	20	20	20
Options		—	FP*	FP	FP	FP
Weight [kg]		0.09	0.3	0.6	0.7	0.4

Option

Option Code	Compatible product		Micrometer Readable Resolution [mm]	Reference
	Products Name	Part Number		
FP	Fine-pitch Screw Adjusters	*FPSA-42525 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

