

Precision stages for fine adjustment in three axes.  
Combination of XY axis steel stage and  $\theta$  axis coarse/fine-control stage.

- Application System
- Machine Vision
- Manual Positions
- Motion Control Products
- Optical & Mirror Holder
- Optomechanics
- Holders
- Factory Automation Parts
- Measurement & Control
- FA Electrical Parts
- Laser
- Tools & Clean Parts



- The  $\theta$  axis (rotation) stage is placed on the top, making it possible to rotate samples in a concentric circle after centering adjustment (e.g., with a microscope scale plate) on the XY axis stage.
- The XY axis stage has micrometers along the sides. The low profile of the micrometer heads gives the stage compact dimensions.



- X Axis Stages
- XY Axis Stages
- Z Axis Stages
- XZ Axis Stages
- XYZ Axis Stages
- Rotation Stages
- Goniometers/Tilt Stages
- Multiaxis Stages
- Linear Guide

Specifications						
Part Number	METRIC	TSD-407S	TSD-607S	TSD-807S	TSD-1007S	TSD-1207SH
Stage Size (mm)		φ40	φ60	φ80	φ100	φ120
Detail		KSP-406M, TSD-402S	KSP-606M, TSD-602S	KSPA-806M, TSD-802S	KSPA-986M, TSD-1002S	KSPB-1206MH, TSD-1202SH
Axes of Travel		XY $\theta$ axis				
Travel (mm)		XY axis : ±6.5	XY axis : ±6.5	XY axis : ±12.5	XY axis : ±12.5	XY axis : ±20
Travel (°)		Coarse: 360° Fine: ±5°	Coarse: 360° Fine: ±5°	Coarse: 360° Fine: ±5°	Coarse: 360° Fine: ±5°	Coarse: 360° Fine: ±5°
Load Capacity (N)		49(5.0kgf)	68.6(7.0kgf)	58.8(6.0kgf)	68.6(7.0kgf)	196(20.0kgf)
Max. Moment Capacity/Pitch (N · m)		0.3	0.4	1	1	9.8
Max. Moment Capacity/Roll (N · m)		0.3	0.4	1	1	9.8
Moment Stiffness/Pitch (°/N · cm)		2.2	1.5	1	0.91	0.22
Moment Stiffness/Yaw (°/N · cm)		2.2	1.5	1	0.91	0.22
Primary Material		Brass · Aluminum				
Finish		Super black chrome, Black anodized				
Weight (kg)		0.6	1.4	1.9	3.3	4.2