

High Precision manual translation stage assembly with fine adjustment in four axes.



- Assembly consists of XY axis steel stage, Z-pivot flat top steel stage,  $\theta$ -rotation coarse/fine-adjustment stage,  $\alpha$ -axis compact goniometer,  $\alpha$   $\beta$  axis compact goniometer.
- Stages with part numbers ending in "EC" have center-driven XY axis micrometer heads. Stages with part numbers ending in "ES" have a side-driven micrometer heads.
- Available in 40mm & 60mm Footprints



- 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

- 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-40EC	TSD-40ES	TSD-60EC	TSD-60ES
Stage Size (mm)		40×40	40×40	60×60	60×60
Detail		SP-123,GOH-40A51,GOH-40A35,KSP-406M,TSD-403,TSD-402C	SP-123,GOH-40A51,GOH-40A35,KSP-406M,TSD-403,TSD-402S	GOH-60A115,GOH-60A84,KSPB-906M,TSD-603,TSD-602C	GOH-60A115,GOH-60A84,KSPB-906M,TSD-603,TSD-602S
Axes of Travel		XYZ $\theta$ $\alpha$ $\beta$ axis			
Travel (mm)		X axis : $\pm 6.5$ Z axis : $\pm 3$	X axis : $\pm 6.5$ Z axis : $\pm 3$	X axis : $\pm 6.5$ Z axis : $\pm 3$	X axis : $\pm 6.5$ Z axis : $\pm 3$
Travel ( $^{\circ}$ )		Coarse:360 $^{\circ}$ Fine: $\pm 5^{\circ}$	Coarse:360 $^{\circ}$ Fine: $\pm 5^{\circ}$	Coarse:360 $^{\circ}$ Fine: $\pm 5^{\circ}$	Coarse:360 $^{\circ}$ Fine: $\pm 5^{\circ}$
Angle Range ( $^{\circ}$ )		$\alpha$ axis : $\pm 15$ $\beta$ axis : $\pm 20$	$\alpha$ axis : $\pm 15$ $\beta$ axis : $\pm 20$	$\alpha$ axis : $\pm 10$ $\beta$ axis : $\pm 15$	$\alpha$ axis : $\pm 10$ $\beta$ axis : $\pm 15$
Rotation Center Height (mm)		35	35	84	84
Load Capacity (N)		49(5.0kgf)	49(5.0kgf)	98(10.0kgf)	98(10.0kgf)
Primary Material		Steel · Brass			
Finish		Super black chrome			
Weight (kg)		1.23	1.23	4.95	4.95