

Z Axis Rack and Pinion Dovetail Translation Stages (Vertical)

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TARW-L

RoHS

Catalog Code

W7052

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Z axis rack and pinion dovetail translation stages, suitable for frequent use that requires quick movement and long travel.

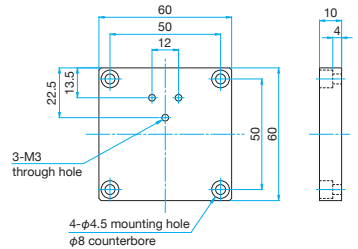
- The TAR series translation stages have dovetail rack and pinion guides.
- They are suitable for frequent operations that require quick motion and long travel.
- The model TAR-60553D model and TAR-60703D incorporates a coarse and fine adjustment.



TAR-34403L Bottom Plate

Primary material: Aluminum
Finish: Black Anodized

TAR-34403L include a base plate that allows mounting on instruments or bases fitted with M4 tapped holes on 50 × 50mm, preventing the handle from contacting the mounting surface.



Specifications								
Part Number	METRIC	TARW-25503L	TAR-34403L	TAR-34603L	TAR-34803L	TAR-38403L-M6	TAR-60553D	TAR-60703D
	INCH	—	—	—	—	TAR-38403LUU	—	—
Stage Size [mm]		25×50	34×40	34×60	34×80	38×40	60×60	60×60
Axes of Travel		Z axis						
Travel [mm]		±10	+25 / -20	±15	+20 / -10	+25 / -20	Coars: +18 / -0 Fine: +18 / -0	Coars: +33 / -0 Fine: +33 / -0
Lead of Actuator [mm/rotation]		about 20	about 20	about 20	about 20	about 20	Coars: about 20 Fine: about 2.5	Coars: about 20 Fine: about 2.5
Vernier Readable Resolution [mm]		0.1	0.1	0.1	0.1	0.1	0.1	0.1
Guide Method		Dovetail slide method						
Primary Material		Brass / Aluminum						
Finish		Super black chrome / Black anodized						
Load Capacity [N]		9.8 (1.0kgf)	14.7 (1.5kgf)	14.7 (1.5kgf)	14.7 (1.5kgf)	14.7 (1.5kgf)	14.7 (1.5kgf)	14.7 (1.5kgf)
Travel Accuracy	Straightness [μm]	30	20	20	30	30	20	20
Max. Moment Capacity	Pitch [N·m]	0.6	1.5	1.4	1.9	1.5	1.5	1.5
	Roll [N·m]	0.5	1.0	1.2	1.5	1.0	1.0	1.0
Moment Stiffness	Pitch [°/N·cm]	1.53	0.51	0.41	0.41	0.51	0.61	0.61
Parallelism [μm]		—	—	—	—	—	80	80
Squareness [μm]		50	50	100	100	50	—	—
Weight [kg]		0.3	0.5	0.8	1.1	0.6	0.55	0.6

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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

