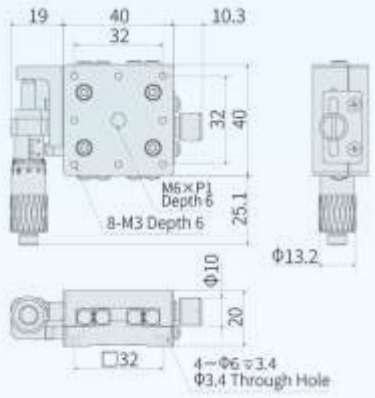
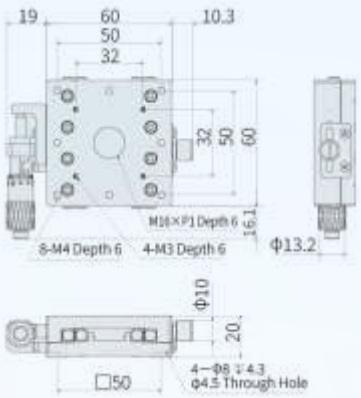
X-Axis Manual Stages, Cross Roller Guide

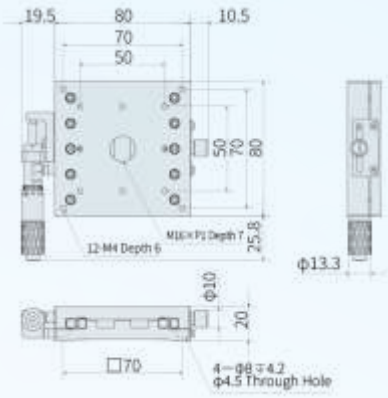
Dimensional Drawing of Manual X-Axis Stages

DE-XPG40



DE-XPG60





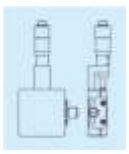
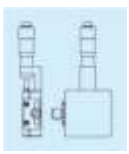
*A40, A60, A80 are available sizes of the screw hole on sliding table

Specification Table of Manual X-Axis Stages

Specification Table of Manual X-Axis Stages

Part Number of Manual X-Axis Stages		Manual X-Axis Stages	Movement	Load Capacity (N)		Straightness	Minimum Reading	Weight
Type of Manual X-Axis Stages	No.	(mm)	(mm)	Horizontal	Vertical	(μm)	(μm)	(kg)
DE-XPG	40	40×40	±6.5	19.6	9.8	Within 10 μm	10	0.14
	60	60×60		49	19.6			0.25
	80	80×80	±12.5	98	49			0.5

Alteration of Manual X-Axis Stages

Alterations of Manual X-Axis Stages	Changing the position of the micrometer knob				
Manual X-Axis Stages Spec.	Manual X-Axis Stages Center 	Center Left and Right Reverse 	Center Up and Down Reverse 	Center Left and Right/Up and Down Reverse 	Side Left and Right Reverse 
Code Manual X-Axis Stages	A	AR	AZ	AZR	CR

Alterations of Manual X-Axis Stages	Changing the position of the micrometer knob				
Manual X-Axis Stages Spec.	Side Up and Down Reverse 	Left and Right/Up and Down Reverse 	Disc Clamping 	Opposite Clamping 	Without Micrometer Knob 
Manual X-Axis Stages Code	CZ	CZR	H	P	MN

Caution of Manual X-Axis Stages

- Stage usage environment of X-Axis Stages
  Usage environment of X-Axis Stages: 10~50℃, 20~70%RH (non-condensing)
  Recommended usage environment of X-Axis Stages: 22±5℃, 20~70%RH (non-condensing)
- Guide mechanism
  Since a cross roller guide is used as the guide mechanism, inject lubricant in a timely manner according to the usage conditions to prevent the life of the cross roller guide from being reduced and deteriorated due tolubricant reduction.
- Clamping mechanism
  ① The clamping mechanism of the slide table is fixed by the frictional force generated by the fastening screw, so if the external force exceeds the frictional force of the clamping mechanism, the slide table will move. The user must take appropriate measures during use to prevent the table surface from moving.
  ② Holding force refers to the value of the force that prevents the slide table from moving in the clamped state. The maximum holding force varies depending on the tightening torque, so ensure sufficient safety factors when designing.
- A slide table with a micrometer knob mounted on the transport mechanism is generally called a standard type if it has a shape like the figure below. You can freely select by combining the installation space, installation posture, and operation method.
  However, there are some models of X-Axis Stages where the installation position of the micrometer knob cannot be changed due to the product structure.
- There may be cases where the upper and lower tables are deformed due to differences in the flatness of the installation surface. Deformation of the table surface causes backlash, loosening due to failure to obtain the specified preload, and poor sliding due to excessive preload.
  Therefore, it is recommended to maintain the flatness of the installation surface at approximately 5 microns.

ORDERING GUIDE

Part Number

DE-XPG40

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