

Horizontal Z-axis Cross Roller Guide Stage □25□40□60: B33-25/40/60

B33-60A



[Features]

- B33 series is cross roller guide stage that moves its surface up and down.
- A structure to transmit feeding of the micrometer using leverage.
- The end of model number "KG-" is high rigidity type.
- Available coarse-fine motion type.

※ □70, 80 and B37 (micrometer pushing directly type - □60) shows next page
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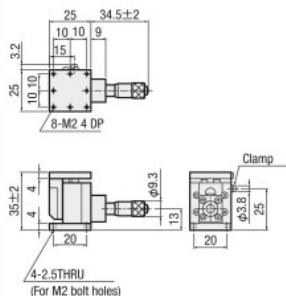
RoHS

SURUGA SEIKI

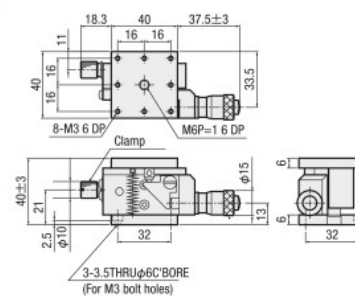
CAD 3D・2D

Dimensional outline drawings

B33-25A



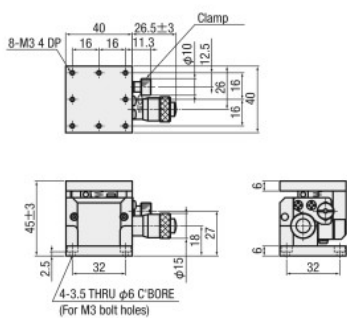
B33-40A



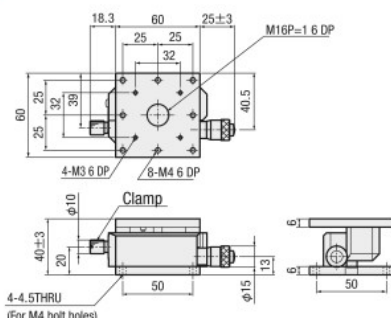
B33-60KGA



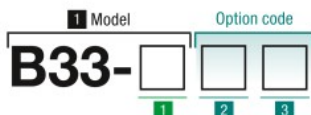
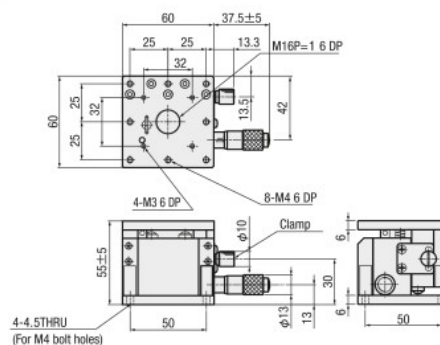
B33-40KGA



B33-60A



B33-60KGA



Select the option code as below.

1 Stage table size

25	25×25mm
40	40×40mm
60	60×60mm

2 Type

Blank	Standard
KG	High rigidity

3 Feeding position

A	Standard micrometer
B	Coarse-fine micrometer

※ Only A is applicable for B33-25.
 ※ Not available KGB for B33-40.

Low prices
 Linear ball guide
 BHE series



P.2-055~

SPEC									
Model	B33-25A	B33-40A	B33-40B	B33-40KGA	B33-60A	B33-60B	B33-60KGA	B33-60KGB	
Stage table size	25×25mm	40×40mm			60×60mm				
Travel distance	±2.0mm	±3.0mm	Coarse motion±3.0mm Fine motion±0.1mm		±3.0mm	Coarse motion±3.0mm Fine motion±0.1mm		±5.0mm Coarse motion±5.0mm Fine motion±0.1mm	
Minimum reading of micrometer	10µm/Scale		Coarse motion 10µm Fine motion 0.5µm		10µm/Scale		Coarse motion 10µm Fine motion 0.5µm		
Guide	Cross roller guide								
Load capacity	1.0kgf [9.8N]			2.0kgf [19.6N]	2.0kgf [19.6N]		4.0kgf [39.2N]		
Travel accuracy	Motion straightness 3µm								
Allowable load for moment	Pitch	0.7N · m	1.5N · m	1.5N · m	2.2N · m	1.5N · m	1.5N · m	4.1N · m	
	Yaw	0.5N · m	2.0N · m	2.0N · m	2.4N · m	4.2N · m	4.2N · m	6.2N · m	
	Roll	0.5N · m	2.3N · m	2.3N · m	3.6N · m	2.3N · m	2.3N · m	6.2N · m	
Moment rigidity	Pitch	4.08"/N · cm	1.63"/N · cm	1.63"/N · cm	0.52"/N · cm	0.72"/N · cm	0.72"/N · cm	0.23"/N · cm	
	Yaw	2.50"/N · cm	0.97"/N · cm	0.97"/N · cm	0.6"/N · cm	0.21"/N · cm	0.21"/N · cm	0.17"/N · cm	
	Roll	2.37"/N · cm	1.96"/N · cm	1.96"/N · cm	1.03"/N · cm	1.01"/N · cm	1.01"/N · cm	0.11"/N · cm	
Parallelism	50µm		100µm						
Motion vorticality	15µm		20µm						
Weight	0.06kg	0.2kg	0.3kg	0.2kg	0.3kg	0.4kg	0.6kg	0.6kg	
Main material—Surface finishing	Aluminum—Black alumite processing								
Provided screws (Hex socket screws)	4 of M2—8		4 of M3—6			4 of M4—10			

※Lifting quantity error may occur by stroke position due to principle of leverage.

Manual linear stage

X

XY

Z

Horizontal Z

XZ

Horizontal XZ

XYZ

Horizontal XYZ

Goniometer

Rotary

Unit

Accessories

Linear Ball

Cross Roller

Dovetail

□25

□30

□40

□50

□60

□70

□80

□100

□120

Other

2

082