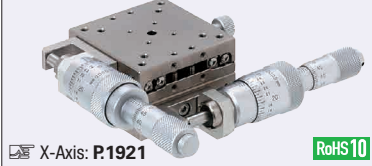


[High Precision] XY-Axis Linear Ball Slide

Coarse / Fine Micrometer Head

■Features: Highly accurate and rigid stages. Even an XY stack is only 40mm high or less, and orthogonality alignment is not needed. Coarse/Fine Feed type suitable for any application.

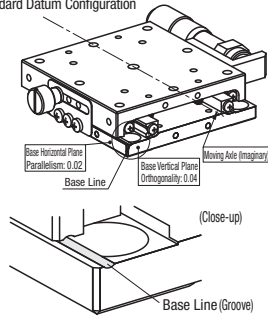
XY-Axis Coarse / Fine Micrometer Head



X-Axis: P.1921

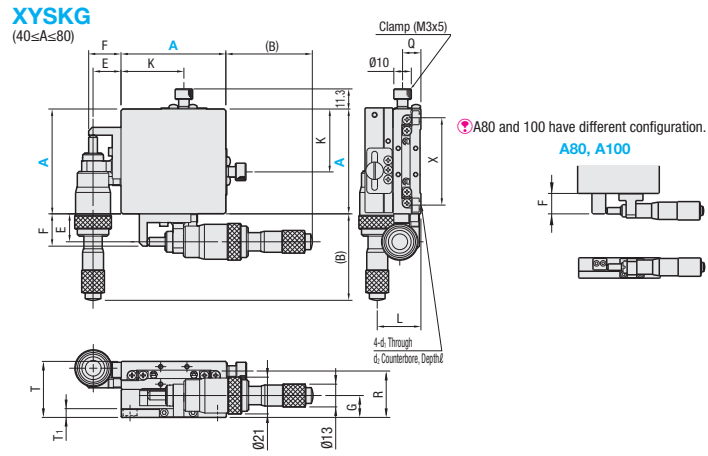


Standard Datum Configuration



MISUMI's Linear Ball Guide Stages have parallel and orthogonal datum in relation to the motion axis. The data are as illustrated.

XYSKG (40≤A≤80)



A80 and 100 have different configuration. A80, A100

Type	Main Body	Ball	Spring	Micrometer Head Bracket	Tip Holder
XYSKG	SUS440C Electroless Nickel Plating	SUS440C 58HRC~	SUS304WPB	A5052 Clear Anodize	SUS303

For Micrometer Head and Feed Screw materials, see P.2005.
For top surface mounting dimensions, see Linear Ball Slide X-Axis Stages on P.1921. See the CAD data for details.

Type	Top View				Front View				Side View				Accessory (4 pcs.)							
	A	(B)	E	F	K	G	R	T	T ₁	Q	L	X	d ₁	d ₂	l	Type M-L				
XYSKG	40	60	16	18.5	26	11.6	26.5	32	4.5	10.5	27.6	32	3.5	6	3.5	SCB3-6				
	50	55			31												40			
	60	50			36												11.4	27.4	50	4
	70	50.5			46.5												12.5	29.5	36	6
80	49.5	17	25	55	10.8	34.5	40	6.5	14.5	30.8	70	4.5	8	5.3						

Performance

Type	Part Number	Stage Surface (mm)	Travel Distance (mm)	Horizontal Load Capacity (N)	Travel Accuracy				Moment Load Capacity (N·m)			Moment Rigidity (%/N·cm)			Parallelism	Weight (kg)	Unit Price
					Straightness	Parallelism	Pitching	Yawing	Pitching	Yawing	Rolling	Pitching	Yawing	Rolling			
XYSKG	40	40x40	±6.5mm Coarse 0.2 mm Fine Feed	95.1	1μm	12μm	25"	15"	5.0	5.0	5.0	0.63	0.70	0.63	30μm	0.44	
	50	50x50							6.0	6.8	6.0	0.24	0.28	0.24			
	60	60x60							9.0	10.0	9.0	0.13	0.16	0.13			
	70	70x70							12.9	13.8	12.9	0.09	0.10	0.09			
80	80x80	17.7	18.2	17.7	0.06	0.08	0.06	40μm	1.78								

Coarse/Fine Micrometer Head Resolution Coarse: 10μm, Fine: 0.5μm

For orders larger than indicated quantity, please request a quotation.

Ordering Example Part Number XYSKG40

Alterations Part Number XYSKG40 - (CR, A, H) A

Alterations	Position of Micrometer Head and Feed Screw		Reinforced Clamp								
	Side Mount - Right / Left Reversed	Center	Disc Clamp								
Spec.											
	<table border="1"> <thead> <tr> <th>A</th> <th>J₁</th> <th>P₁</th> </tr> </thead> <tbody> <tr> <td>40, 50, 60, 70</td> <td>15.8</td> <td>10</td> </tr> <tr> <td>80</td> <td>14.8</td> <td>15</td> </tr> </tbody> </table> <p>Combination with alteration A is not available. A disc clamping method that does not apply loads on the stage surface. Better position holding performance than the standard clamping method.</p>			A	J ₁	P ₁	40, 50, 60, 70	15.8	10	80	14.8
A	J ₁	P ₁									
40, 50, 60, 70	15.8	10									
80	14.8	15									
Code	CR	A	H								

Mounting dimensions of micrometer head, feed screw and clamp are different from those of standard products. See the CAD data for details.
Micrometer head or feed screw mounted in positions other than shown below, see "Specification Selectable Type" (P.1989).
Knob Cover HDCVR13 (Sold Separately): Ø13 micrometer knob diameter can be increased by installing the cover. P.2004
Extension Cover HDEXT13 (Sold Separately): Feed knob of Ø13 micrometer head and feed screw can be extended. P.2004

[High Precision] XY-Axis Linear Ball Slide

Opposed Clamp with Knob

■Features: Side mounted micrometer shaft is opposed by a knobbed screw to improve vibration resistance and secures greater locking power.

XY-Axis, Opposed Clamp with Knob

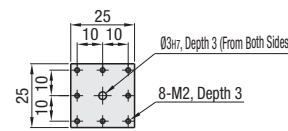


X-Axis: P.1924

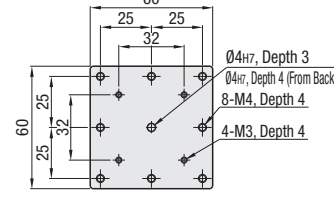


Mounting Hole Dimensions of the Top Table

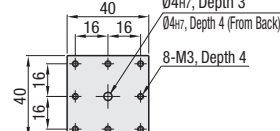
A25



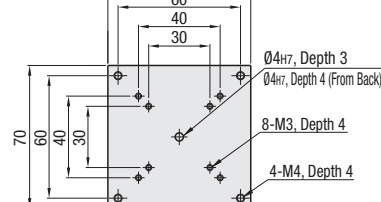
A60



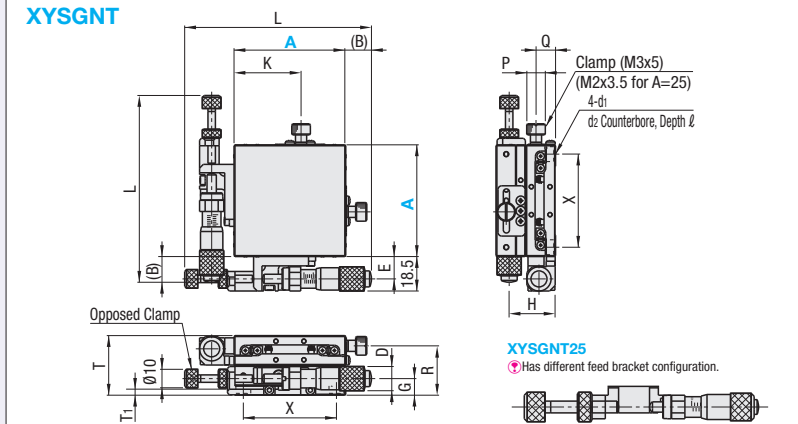
A40



A70



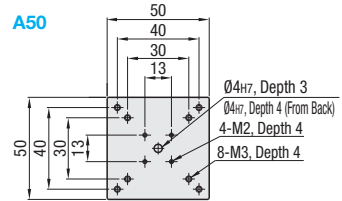
XYSGNT



Type	Main Body	Ball	Spring	Micrometer Head Bracket	Tip Holder
XYSGNT	SUS440C Electroless Nickel Plating	SUS440C 58HRC~	SUS304WPB	A5052 Clear Anodize SUS303*	SUS303

* Bracket material will be different for 25 square only.
For micrometer head and opposed clamp materials, see Adjust Screws ANKSS on P.1712.
Opposed clamp shaft has a hex socket (2.5 hex, depth 2.5) on the end.

A50



Type	Top View				Front View				Side View				Accessory (4 pcs.)						
	A	(B)	E	K	L	D	G	T	T ₁	R	H	P	Q	X	d ₁	d ₂	l	Type M-L	
XYSGNT	25	30	7	15	84.5	9.3	6.7	24	3.7	20.5	18.7	6	8.5	20	2.5	4.2	2.5	SCB2-4	
	40	23.8	12	26	100.3	13	8.9	32	4.5	26.5	24.9	10	10.5	32	3.5	6	3.5	SCB3-6	
	50	18.8		31															40
	60	13.8		36															50
70	14.3	46.5		60															

Performance

Type	Part Number	Stage Surface (mm)	Travel Distance (mm)	Horizontal Load Capacity (N)	Travel Accuracy				Moment Load Capacity (N·m)			Moment Rigidity (%/N·cm)			Parallelism	Orthogonality	Weight (kg)	Unit Price
					Straightness	Parallelism	Pitching	Yawing	Pitching	Yawing	Rolling	Pitching	Yawing	Rolling				
XYSGNT	25	25x25	±3.2	38.2	3μm	10μm	30"	25"	2.0	2.0	3.5	3.0	2.2	2.2	30μm	10μm	0.14	
	40	40x40							5.0	5.0	5.0	0.63	0.70	0.63				
	50	50x50							6.0	6.8	6.0	0.24	0.28	0.24				
	60	60x60							9.0	10.0	9.0	0.13	0.16	0.13				
70	70x70	12.9	13.8	12.9	0.09	0.10	0.09	12.9	13.8	12.9	0.09	0.10	0.90			1.16		

Micrometer Head Resolution: 10μm/division
Knob Cover HDCVR13 (Sold Separately): Ø13 micrometer head or feed screw knob can be increased in diameter to Ø30 by installing the cover. P.2004
Extension Cover HDEXT13 (Sold Separately): Feed knob of Ø13 micrometer head and feed screw can be extended. P.2004

Ordering Example Part Number XYSGNT60