

[Simplified Adjustments] XY-Axis, Feed Screw, Large Lead (3.0mm)

Standard/Large Handle Selectable

Features: 3.0mm lead feed screw stages are combined into XY arrangement. Convenient when rapid feeding characteristic is desired.

XY-Axis

X-Axis P.1912 Travel per Rotation: 3.0mm

Accuracy Standards

Not recommended for precise positioning due to its clearance shown on the left. Values are for single-axis configuration.

One Point

Long stroke moves can be made easily with use of a ball-point hex wrench.

Type	Main Body	Shaft	Knob	Feed Screw	Accessory		
Standard Handle	Large Handle	Material	Material	Material			
XYKS	XYKSL	Aluminum Alloy	Black Anodize	EN 1.4301 Equiv.	EN 1.4305 Equiv.	EN 1.4301 Equiv.	SCB5-20, 4 pcs.

No.40

Handle Shape Comparisons

Standard Handle Large Handle

Hex Wrench Hole Details

When the large handle is selected, the handle diameter will exceed the end plate height. Please be aware of potential interferences.

No.60

No.80

Do not force the handle to turn past the end of the travel limits as it may cause the handle to come loose.

Part Number	Stage Surface (mm)	Travel Distance (mm)	Load Capacity (N)	Weight (kg)	Unit Price
40	40x40	±25	62.7	0.66	
60	60x60	±25	62.7	1.17	
80	80x80	±25	56.8	1.64	

Alterations

Mounting of a Scaled Plate on the Stage

Change of Clamp (Knurled Knob)

Spec.

Code

[Standard] XY-Axis Cross Roller / XY-Axis Linear Ball Slide

Points on Similar Product Comparison | Travel Accuracy Straightness: 30µm, Parallelism: 60µm

P.1943, P.1946

Features: Economical stages with a micrometer head capable of 0.01mm resolution adjustments.

XY-Axis Cross Roller

XYCRS

High Precision Stage Existing Product: XYPG (P.1943)
For Mounting Hole Dimensions of the Top Table, see P.1917.

Part Number	Top View					Front View					Side View					
	A	B	Travel Distance (mm)	E	F	G	H	L	T	P	Q	X	d1	d2	ℓ	
XYCRS	25	29	±3.2	7	11.8	(6.8)	9.5	9.3	21.8	24.3	30	6	6.8	20	2.4	2.5
	40	26	±6.5	8	19	(10.8)	13	13	34.5	33	40	10	14.5	32	3.4	3.3
	50	23		8	19	(10.8)	13	13	34.5	33	40	10	14.5	40	3.4	3.5
	60	21		8	19	(10.8)	13	13	34.5	33	40	10	14.5	50	4.5	4.4
	80	22		8	19	(10.8)	13	13	34.5	33	40	10	14.5	70	4.5	4.4
	90	34.8	±12.5	8	19	(10.8)	13	13	34.5	33	40	10	14.5	80	4.5	5.3
	100	20.8		8	19	(10.8)	13	13	34.5	33	40	10	14.5	90	4.5	5.3
	120	88		±25	13.5	26	(10.8)	19.1	11	34.5	31	40	10	14.5	100	4.5

Performance

A	Stage Surface (mm)	Load Capacity (N)	Travel Accuracy		Moment Load Capacity (N·m)			Moment Rigidity (°/N·cm)			Parallelism	Weight (kg)	Unit Price
			Straightness	Motion Parallelism	Pitching	Yawing	Rolling	Pitching	Yawing	Rolling			
25	25x25	9.8	30µm	60µm	0.4	0.8	0.4	4.83	5.70	4.83	100µm	0.09	
40	40x40	17.6			2.0	2.2	2.0	0.66	0.84	0.66		0.28	
50	50x50	28			3.4	3	3.4	0.35	0.4	0.35		0.36	
60	60x60	44.1			5.2	4.3	5.2	0.19	0.22	0.19		0.48	
80	80x80	93.1			17.3	15.1	17.3	0.09	0.10	0.09	0.77		
90	90x90	110			22.0	20.0	22.0	0.09	0.10	0.09	1.00		
100	100x100	140			33.0	30.0	33.0	0.11	0.14	0.11	1.20		
120	120x120	180			57.2	44.7	57.2	0.04	0.04	0.04	1.91		

Ordering Example

Part Number: XYCRS60

Points on Similar Product Comparison | Travel Accuracy (Straightness) 10µm

XY-Axis, Linear Ball Slide

XYLBS40 (Standard)

XYLBS40-CR (Reversed)

XYLBS60 (Standard)

High Precision Stage Existing Product: XYSG (P.1946)

Part Number	No.	Micrometer Head Pos.	Stage Surface (mm)	Travel Distance (mm)	Load Capacity (N)	Minimum Graduation (µm)	Travel Accuracy		Moment Rigidity (°/N·cm)			Parallelism (µm)	Weight (kg)	Included Screw (Stainless Steel Hex Socket Low Head Cap Screw)	Unit Price
							Straightness	Pitching	Yawing	Rolling	Rolling				
XYLBS	40	No Symbol	40x40	±6.5	95.6	10	10µm	30°	25°	0.59	0.7	0.59	60	0.48	M3-8, 4 pcs.
	60	CR	60x60	±6.5	191.6	10	10µm	35°	30°	0.15	0.16	0.15	60	0.88	M4-8, 4 pcs.

Ordering Example

Part Number: XYLBS40