

[High Precision] XY-Axis Cross Roller / Cross Roller with Dowel Holes Micrometer Head / Feed Screw

MiSUMI C-VALUE [Standard] XY-Axis Cross Roller Low Profile

■ **Features:** High mounting repeatability is obtained with the dowel holes of XYPGN.

■ **XY-Axis**

■ **Micrometer Head**
XYPG (25≤A≤120)
XYPGN (A=40, 60) (with Dowel Holes)

■ **Feed Screw (Pitch 0.5)**
XYPCG (25≤A≤80)

*A=25 will be Ø7.

■ **XY-Axis, Low Profile**

RoHS10

For mounting hole dimensions of the Cross Roller Stage top table, see P.1918.

● **Mounting Hole Dimensions on the Top/Bottom of the Table of XY-Axis Stages with Dowel Holes**

- H7 hole and H7 long hole on bottom surface, and 2 H7 holes on upper surface.
- Theoretical dimension tolerance of dowel holes on top and bottom surfaces is ±0.165.

A40

A60

A25

A80, A100

See the CAD data for details.

Material: Aluminum Alloy
Surface Treatment: Black Anodize

Standard Stages Similar Products: XYCRS (P.1942)

■ **Micrometer Head (XYPG, XYPGN), Feed Screw (XYPCG)**

Part Number	Type	A	Top View		Front View													Side View	
			Standard Micrometer (B) Travel Distance (mm)	Feed Screw (B) Travel Distance (mm)	E	F	J	D	G	H	T ₁	L	T	P	Q	X	d ₁	d ₂	ℓ
XYPG	25	±3.2	11	±3.2	4.5	6.5	6.8	9.3	8.5	23.5	4.5	23.5	30	6	10.5	20	2.5	4.2	2
	40	±6.5	22.3	±6.5	12	18.5	11.3	13	12.8	34.5	6.5	32.8	40	10	14.5	32	3.5	6	3.5
	60	±6.5	16.3	±6.5	12	18.5	11.3	13	12.8	34.5	6.5	32.8	40	10	14.5	50	4.5	8	4
XYPGN	80	±12.5	10	-	17	22*	11.3	18	10.8	34.5	5.7	30.8	40	10	14.5	70	4.5	8	4.5
	*100	±12.5	-	-	17	22	11.3	18	10.8	34.5	5.7	30.8	40	10	14.5	90	4.5	8	4.5
	*120	±25	-	-	13	20	11.5	21	18	48.0	9.5	48	60	10	18	100	4.5	8	4.5

* A100 and 120 are not available for Feed Screw Type (XYPCG). * When A=80 for the Feed Screw Type (XYPCG), F=20.

● **Performance**

A	Stage Surface (mm)	Load Capacity (N)	Travel Accuracy				Moment Load Capacity (N·m)		Moment Rigidity (1/N·cm)		Parallelism	Weight (kg)	Accessory (4 pcs.)	Unit Price			
			Straightness	Parallelism	Pitching	Yawing	Pitching	Yawing	Rolling	Pitching				Yawing	Rolling	XYPG	XYPCG
25	25x25	9.8	3µm	20µm	25"	15"	0.4	0.8	0.4	4.83	5.70	4.83	0.08	SCB2-6	-	-	-
40	40x40	17.6					2.0	2.2	2.0	0.66	0.84	0.66	0.3	SCB3-6	-	-	-
60	60x60	44.1					5.2	4.3	5.2	0.19	0.22	0.19	0.52	SCB4-6	-	-	-
80	80x80	93.1					17.3	15.1	17.3	0.09	0.10	0.09	1.00	SCB4-6	-	-	-
100	100x100	140.1					33.0	30.0	33.0	0.11	0.14	0.11	1.40	SCB4-6	-	-	-
120	120x120	180.3					57.2	44.7	57.2	0.04	0.04	0.04	3.20	SCB4-10	-	-	-

XYPG and XYPGN: Micrometer Head Resolution: 10µm/division

Ordering Example: Part Number XYPG80

Alterations: Part Number (CR, A--etc) XYPG60 - A

Alterations	Position of Micrometer Head and Feed Screw	Reinforced Clamp	No Micrometer Head
Spec.	Side Mount - Right / Left Reversed Center	Disc Clamp Opposed Clamp	No Micrometer Head
Code	CR A	H P	MN

- Mounting dimensions of micrometer head, feed screw and clamp are different from those of standard products. See the CAD data for details.
- For 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 HDEX113 (Sold Separately): Feed knob of Ø13 micrometer head and feed screw can be extended. P.2004

Points on Similar Product Comparison | Travel Accuracy (Straightness) 30µm

Similar Product Pages P.1945

■ **Features:** Economical stages with a micrometer head capable of 0.01mm resolution adjustments. Micrometer head position is selectable from 3 types.

■ **XY-Axis, Low Profile**

RoHS10

XYCRSC□□-A (Micrometer Head Center Drive)

XYCRSC□□-C (Micrometer Head Side Drive - Standard)

XYCRSC□□-CR (Micrometer Head Side Drive - Reversed)

Mounting Hole Dimensions of the Top Table

No.40

No.60

No.80

Material: Aluminum Alloy
Surface Treatment: Black Anodize

XY-Axis Stages High Precision Stage Existing Product: XYSPG (P.1945)

Type	Part Number	Stage Surface (mm)	Travel Distance (mm)	Top View		Side View			Load Capacity (N)	Travel Accuracy Straightness	Weight (kg)	Unit Price
				No.	Micrometer Head Position	(B)	X	d ₁				
XYCRSC	40	40x40	±6.5	36	A (Center)	32	3.4	6	3.5	9.8	0.2	
	60	60x60		20	C (Standard)	50	4.5	8	4.5	29.4	0.4	
	80	80x80		11	CR (Right/Left Reversed)	70	4.5	8	4.5	39.2	0.7	

Ordering Example: Part Number XYCRSC60-A XYCRSC80-C