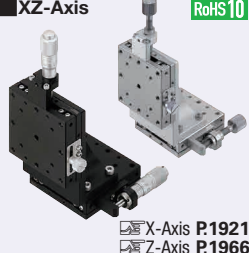


# [High Precision] Linear Ball

## Micrometer Head / Feed Screw

■ **Features:** High Precision/rigidity Linear Ball Slide XZ-Axis Stages. Further cost savings is possible by selecting the Feed Screw Type.

■ **XZ-Axis**

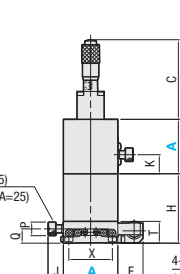


RoHS10

☒ X-Axis P.1921  
☒ Z-Axis P.1966

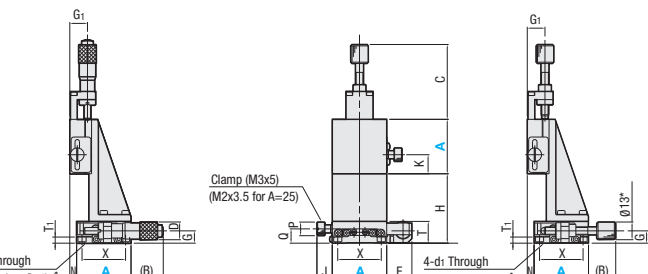
■ **Micrometer Head**

**XZSG**  
**XZSGB** (Black)



■ **Feed Screw (Pitch 0.5)**

**XZSCG**



Clamp (M3x5) (M2x3.5 for A=25)

4-d1 Through  $\phi$  Counterbore, Depth  $\ell$

☒ For top surface mounting dimensions and feed bracket shapes, see Linear Ball Slide X-Axis Stages on P.1921.  
☒ Z-Axis of A=25 has different bracket shape. See P.1709.

\*A=25 will be  $\phi 7$ .

• **Characteristics of Black Chrome Plating** P.304.

Type	Main Body		Ball		Spring	Micrometer Head Bracket		Tip Holder	
	Material	Surface Treatment	Material	Hardness	Material	Material	Surface Treatment	Material	Surface Treatment
XZSG	SUS440C	Electroless Nickel Plating	SUS440C	58HRC~	SUS304WPB	A5052	Clear Anodize	SUS303	-
XZSCG							Black Anodize		Low Temp. Black Chrome Plating
XZSGB		Low Temp. Black Chrome Plating							

☒ For Micrometer Head and Feed Screw materials, see P.2005 and P.2006.

■ **Micrometer Head (XZSG, XZSGB) / Feed Screw (XZSCG)** ☒ Standard Stages with Similar Specifications: Combination of XLBS (P.1920) and ZLBS (P.1965)

Part Number	Front View											Side View											Accessory (4 pcs.)		
	Type	A	H	C		Feed Screw	K	Q	P	J	F	T	T <sub>1</sub>	N	(B)		Travel Distance (mm)	D	G	G <sub>1</sub>	X	d <sub>1</sub>		d <sub>2</sub>	$\ell$
XZSG XZSCG XZSGB (*only)	25*	24.5	37.0	23	10	8.5	6	6.8	11.7	12	3.7	7	25	11	$\pm 3.2$	9.3	7	10	20	2.5	4.2	2.5	SCB2-4		
	40*	51			14						4.5	5	24	20.3					32					SCB3-6	
	50	46	58.5	55	19	10.5		10	11.3	18.5	16	20	18.7	15.3	$\pm 6.5$	13	8.9	13	40	3.5	6	3.5			
	60*	41			24						5	21	14	10.3					50						4.0
	70	43			23.5	11.5					18	6	12	14.5	10.8				9.95	14	60	4.5	8	4.5	
80*	40	96.0			25	14.5			26*1	20	6.5	20	43.5	10	$\pm 12.5^2$	18	10.8	16.5	70				5.3		

• **Performance**

\*1 When feed screw A=80, F=20

\*2 Travel distance of Feed Screw Type XZSCG80 is  $\pm 6.5$ mm.

Part Number	Stage Surface (mm)	Load Capacity (N)	Travel Accuracy		Moment Load Capacity (N·m)			Moment Rigidity (N/N·cm)			Weight (kg)	Unit Price				
			Pitching	Yawing	Pitching	Yawing	Rolling	Pitching	Yawing	Rolling		XZSG	XZSCG	XZSGB		
XZSG XZSCG XZSGB (*only)	25*	25x25	9.8	3 $\mu$ m	30"	25"	2.0	2.0	3.5	3.80	2.20	2.20	0.3			
	40*	40x40					5.0	5.0	5.0	0.84	0.56	0.56	0.55			
	50	50x50					6.8	6.0	6.0	0.30	0.23	0.23	0.72			
	60*	60x60	49.0	1 $\mu$ m <sup>3</sup>	25"	15"	10.0	9.0	9.0	0.16	0.13	0.13	0.98			
	70	70x70					13.8	12.9	12.9	0.12	0.08	0.08	1.42			
80*	80x80		3 $\mu$ m			18.2	17.7	17.7	0.08	0.06	0.06	2.10				

☒ XZSG, XZSGB Micrometer Head Resolution: 10 $\mu$ m/division \*3 XZSGB Straightness is 3 $\mu$ m.

☒ Knob Cover HDCVR13 (Sold Separately):  $\phi 13$  micrometer knob diameter can be increased by installing the cover. ☒ P.2004

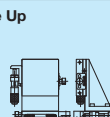
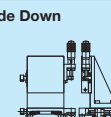
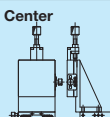
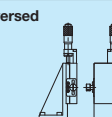
☒ Extension Cover HDEXT13 (Sold Separately): Feed knob of  $\phi 13$  micrometer head and feed screw can be extended. ☒ P.2004

Ordering Example

Part Number  
**XZSG80**

Alterations

Part Number - (C, CU, A, R)  
**XZSG40 - C**

Alterations	Position of Micrometer Head and Feed Screw			
	Side Up	Side Down	Center	Reversed
Spec.				
Code	<b>C</b>	<b>CU</b>	<b>A</b>	<b>R</b>

☒ Mounting dimensions of micrometer head, feed screw and clamp are different from those of standard products. See the CAD data for details.