[High Precision] X / XY / Z-Axis Stages - Selectable

Features: Various X, XY, and Z-Axis Linear Ball Slide / Cross Roller Stages (P.1918, P.1921, P.1946, P.1966, respectively) that can be customer specified on ① feed mechanism mount position, ② feed type, ③ clamp type, and ④ grease type



amon mount position; & rood type, & stamp type, and & grouse type.								
Pai	rt Num							
Туре	Axis	Guide	Stage Used					
	Х	R	XSG (P.1921)					
FS	^	С	XPG (P.1918)					
FS	XY	R	XYSG (P.1946)					
	Z	R	ZSG (P.1966)					

Refer to the stage with the same size as the table. Guide Type R: Linear Ball Slide

Stage		1)Feed Position	②Feeding Method			③Clamp Type		(4) Grease				
Axis	Туре	Size	Unit Price	Center/Side	Micrometer Head (Stroke: mm)	Price	Feed Screw (Pitch/Stroke: mm)	Price	Selection	Price	Selection	Price
X-Axis	FSXR (Linear Ball)	25		(Center): A, AR : AZ, AZR (Side) : C, CR : CZ, CZR	N (Standard ±3.2)		F (Hex Socket 0.5/±3.2) B (Feed Screw 0.5/±3.2)	F, B, J:	S (Standard)		G (Standard) R (Clean Env. Compatible) ²	G: R:
		40 50 60 70			N (Standard ±6.5) M (Coarse Fine Feed ±6.5)	N: M: D:	F (Hex Socket 0.5/±6.5) B (Feed Screw 0.5/±6.5) J (Feed Screw 1.0/±6.5)		S (Standard) H (Disc) P (Opposed) Applicable only when C and CR, and the feed type is N or F.			
		80			N (Standard ±12.5) M (Coarse Fine Feed ±6.5) D (Digital Micrometer ±12.5) 1. Only applicable to feed position A ,AR and C.				S (Standard) H (Disc)			
	FSXC (Cross Roller)	25		(Center): A, AR : AZ (Side) : C, CR : CZ	N (Standard ±3.2)	M:	B (Feed Screw 0.5/±3.2)	B:	S (Standard)	S:	G (Standard)	G: R:
		40			N (Standard ±6.5) M (Coarse Fine Feed ±6.5)							
		60										
		80			N (Standard ±12.5) M (Coarse Fine Feed ±6.5)							
	FSXYR (Linear Ball)	25		(Center): A, AR (Side) : C, CR	N (Standard ±3.2)		F (Hex Socket 0.5/±3.2) B (Feed Screw 0.5/±3.2)	F, B, J:	S (Standard)	S: H: P:	G (Standard) R (Clean Env. Compatible) ²	G: R:
XY-Axis		40 50 60 70			N (Standard ±6.5) M (Coarse Fine Feed ±6.5)	D:	F (Hex Socket 0.5/±6.5) B (Feed Screw 0.5/±6.5) J (Feed Screw 1.0/±6.5)		S (Standard) H (Disc) Only applicable to C, CR. P (Opposed) Applicable only when C and CR, and the feed type is N or F.			
		80			N (Standard ±12.5) M (Coarse Fine Feed ±6.5) D (Digital Micrometer ±12.5) 1. Only applicable to feed position A and AR.				S (Standard) H (Disc) Only applicable to C, CR.			
	FSZR (Linear Ball)	25		(Center): AZ, AZR (Side): C, CR : CZ, CZR Feeding direction of C, CR is upward; that of the others is downwards.	N (Standard ±3.2)	N: M:	F (Hex Socket 0.5/±3.2) B (Feed Screw 0.5/±3.2)	F, B, J:	S (Standard)			
Z-Axis		40 50 60 70			N (Standard ±6.5) M (Coarse Fine Feed ±6.5) Not applicable to C, CR.		F (Hex Socket 0.5/±6.5) B (Feed Screw 0.5/±6.5) J (Feed Screw 1.0/±6.5)		S (Standard) H (Disc) P (Opposed) Applicable only when C and CR, and the feed type is N or F.		G (Standard) R (Clean Env. Compatible) ²	G: R:
		80			N (Standard ±12.5) M (Coarse Fine Feed ±6.5) Not applicable to C, CR.				S (Standard) H (Disc)			

*1. Only, clamp position will be changed for Digital Micrometer A and AR. *2. When feed type M (coarse-fire feeds or D (digital micrometer) is selected, grease R (clear env. competible) is not applicable. *3. Combination with M. B is not available for cross order states AZ and CZ. Combination with B is not available for cross order states AZ and CZ. Combination with B is not available for cross order states AZ and CZ. Combination with B is not available for cross order states AZ and CZ. Combination with B is not available for cross order states AZ and CZ. Combination with B is not available for cross order states AZ and CZ. Combination with B is not available for cross order states AZ and CZ. Combination with B is not available for cross order states AZ and CZ. Combination with B is not available for cross order states AZ and CZ. Combination with B is not available for cross order states AZ and CZ. Combination with B is not available for cross order states AZ and CZ. Combination with B is not available for cross order states AZ and CZ. Combination with B is not available for cross order states AZ and CZ. Combination with B is not available for cross order states AZ and CZ. Combination with B is not available for cross order states AZ and CZ. Combination with B is not available for cross order states AZ and CZ. Combination with B is not available for cross order states AZ and CZ. Combination with B is not available for cross order states AZ and CZ. Combination with B is not available for cross order states AZ and CZ. Combination with B is not available for cross order states AZ and CZ. Combination with B is not available for cross order states AZ and CZ. Combination with B is not available for cross order states AZ and CZ. Combination with B is not available for cross order states AZ and CZ. Combination with B is not available for cross order states AZ and CZ. Combination with B is not available for cross order states AZ and CZ. Combination with B is not available for cross order states AZ and CZ. Combination wi Ordering Part Number - ①Feed Position - ②Feeding Method - ③Clamp Type - ④Grease



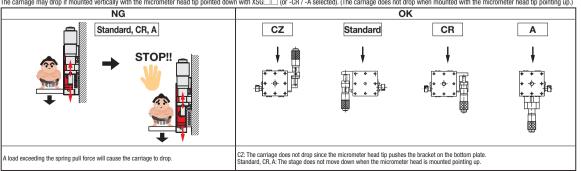
Troop Cover HDCVR13 (Sold Separately): Ø13 micrometer knob diameter can be increased by installing the cover. 2 P.2004

Teed knob of Ø13 micrometer head and feed screw can be extended. 2 P2004

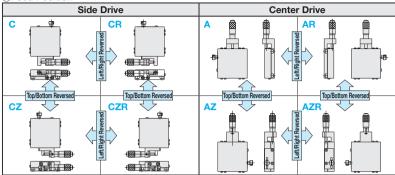
Differences of using X-Axis Stages (XSG @ P.1921 and XPG @ P.1918) vertically versus the true Z-Axis Stages (ZSG @ P.1966 and ZPG @ P.1968). The true 2-Axis stages are designed and constructed with considerations given to the micrometer head/feed screw drive directions and the spring force direction to prevent the stage surfaces from falling due to the loads. (Center drive is the standard.)

Notes on Vertical Uses of X-Axis Stage

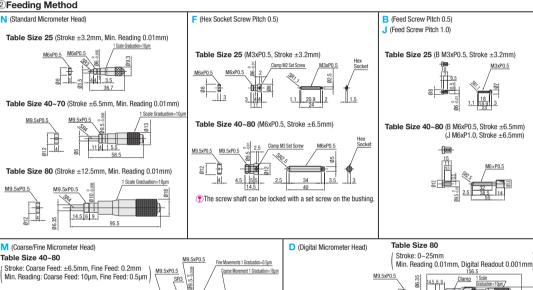
The carriage may drop if mounted vertically with the micrometer head tip pointed down with XSG [or -CR / -A selected]. (The carriage does not drop when mounted with the micrometer head tip pointing up.)







2Feeding Method



3Clamp Type S (Standard)



Linear 40, 50, 60, 70 15.8 80 14.8 15

(Disc Clamp)

Guide

(Opposed Clamp)

The stage side surface is held with a clamp plate by tightening the clamp screw.

A disc clamping method that does not apply loads on the stage surface. Better position holding performance than the standard clamping method.

Ratchet function is not available

The side drive micrometer head is opposed by a screw (M4x25, pitch 0.5). Improves vibration resistance and has secure position holding performance.

4 Grease

Item		Condition	11	Manager and Made at	G (Sta	R	
		Condition	Unit	Measurement Method	Guide Mechanism Surface	Drive Component	(Clean Env. Compatible)
	Thickener	-	-	-	Lithium Soap-based	Urea-based	Lithium Soap-based
Grease Performance	Base Oil	-	-	-	Mineral Oil	Mineral Oil (Mixture)	Fine Synthetic Oil
	Base Oil Kinetic Viscosity	40°C	mm²/s	JIS K2220 5.19	131	-	100
		100°C	111117/8	JIS N2220 3.19	12.2	-	-
	Miscible Consistency	-	-	JIS K2220 7	283	275	315
	Dropping Point	-	°C	JIS K2220 8	181°C	280°C	220°C
	Evaporation Amount	-	wt%	-	0.24	0.26	0.7
	Oil Separation	100°Cx24hr	wt%	JIS K2220 5.7	2.8	0.0	2.6
	Low Temperature Torque	(Starting) -30°C	N·m	JIS K2220 514	-	-	0.22
		(Rotation)	N·III		-	÷	0.06
	Operating Temperature	In Air	°C	-	-25~120°C	-15~150°C	-40~120°C

^{*} The guide mechanism grease for the Linear Ball Guide Stages are R (clean environment compatible) by default.

The only change applicable when the R (clean environment compatible) alteration is specified is the grease for other drive components. [Grease Change Locations]

Guide Mechanism Surfaces (Slide Surfaces, Slide Contacts, Guides)

[·] Drive Components (Micrometer Heads, Feed Screws)