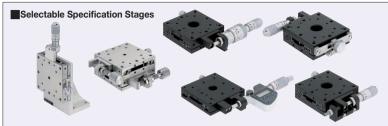
[High Precision] X / XY / Z-Axis Stages - Selectable

Features: Various X, XY, and Z-Axis Linear Ball Slide / Cross Roller Stages (P1918, P1921, P1946, P1966, respectively) that can be customer specified on ① feed mechanism mount position, ② feed hype, ③ clamp type, and ④ grease type.



Pai	rt Num					
Туре	Axis	Guide	Stage Used			
	x	R	XSG (P.1921)			
FS		С	XPG (P.1918)			
гэ	XY	R	XYSG (P.1946)			
	Ζ	R	ZSG (P.1966)			
* Refer to the stage with the same size as the table.						

Guide Type R: Linear Ball Slide C: Cross Roller Slide

	Stage		1 Feed Position	n 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)	N: M: D:	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)?	G: R:
		40 50 60 70			N (Standard ±6.5) M (Coarse Fine Feed ±6.5)		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 JR and C.				S (Standard) H (Disc)			
	FSXC (Cross Roller)	25		(Center): A, AR : AZ (Side) : C, CR : CZ *3	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)	D:	F (Hex Socket 0.5/±3.2) B (Feed Screw 0.5/±3.2)	F, B, J:	S (Standard)	r:	G (Standard) R (Clean Env. Compatible)?	G: R:
XY-Axis		40 50 60 70			N (Standard ±6.5) M (Coarse Fine Feed ±6.5)		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.			
Z-Axis	FSZR (Linear Ball)	25		(Center) : AZ, AZR (Side) : C, CR : CZ, CZR Feeding direction of C.	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)	P:	G (Standard) R (Clean Env. Compatible) [?]	G: R:
		40 50 60 70			N (Standard ±6.5) M (Coase 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.			
		80		CR is upward; that of the others is downwards.	N (Standard ±12.5) M (Coarse Fine Feed ±6.5) Not applicable to C, CR.				S (Standard) H (Disc)			
*1. Only cla	mp position will be changed fo	r Digital Mic				<u> </u>		with M, B is not av	ailable for cross roller stages AZ and CZ. Combi	ination with B is n	t available for cross roller stages	with Table Size 80.
	Ordering Part Number - ①Feed Position - ②Clamp Type - ④Grease Example FSXYR40 - C - F - S - R											

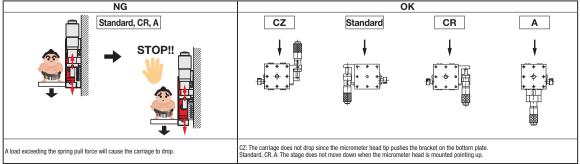
⑦Knob Cover HDCVR13 (Sold Separately): Ø13 micrometer knob diameter can be increased by installing the cover. 2 P2004
⑦Extension Cover HDEXT13 (Sold Separately): Feed knob of Ø13 micrometer head and feed screw can be extended. 2 P2004

?One Point:

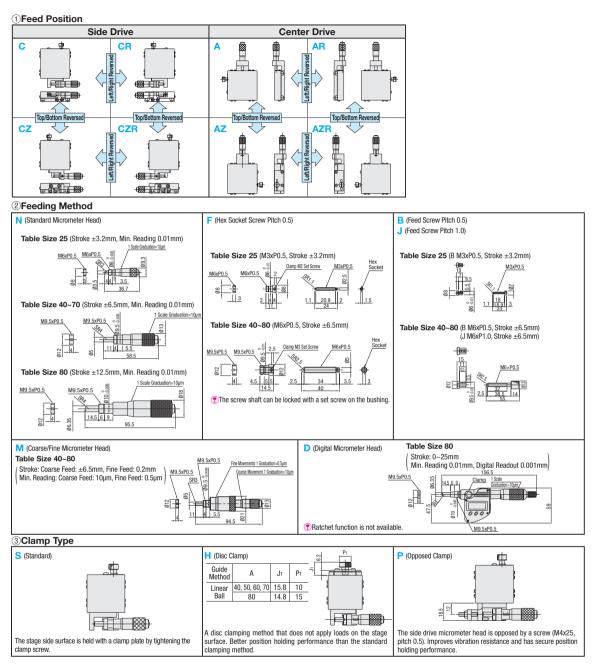
Differences of using X-Axis Stages (XSG 🖙 P.1921 and XPG 🖙 P.1918) vertically versus the true Z-Axis Stages (ZSG 🖙 P.1966 and ZPG 🖙 P.1968). The true Z-Axis stages are designed and constructed with considerations given to the micrometer head/feed screw drive directions and the spring force direction 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.)



However, do not apply a load exceeding the specified vertical load capacity.



(4)Grease

Item		Condition	11-24	Measurement Method	G (Star	R	
		Condition	Unit	weasurement wethod	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	11111 /5		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) -30°C			-	-	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)