Technical Information

[Simplified Adjustments] X-Axis, Feed Screw, Compact / Stroke Selectable

Stage Operating Environment

:10 ~ 50°C, 20 ~ 70%RH (No Condensation) Recommended Operating Environment: 22±5°C, 20 ~ 70%RH (No Condensation)

Stage Installation Method

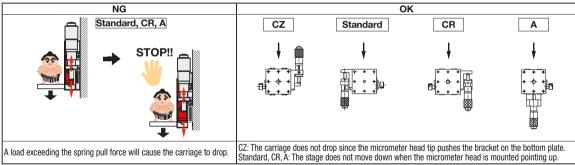
To mount a stage on the base surface, move the top plate to access mounting holes as shown below. XY-Axis Stages X-Axis Stages **Goniometer Stages Rotary Stages** 1)Plate Type 2No Plate Type

Notes on Mounting Surface Accuracies

Intended product performances may not be achieved if the stage mounting surface or the carried object's mounting surface do not have sufficient flatness. (General Flatness Guideline: 10µm or better)

■Vertical Use of X-Axis Stages

When mounting a stage in vertical orientation, note the directions of the feed mechanisms and springs.



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

Standard Stages

■Holding Force

Holding Force (Reference) is the (reference) value to hold the stage top surface rest when clamped.

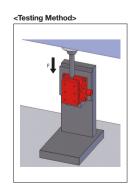
■Measured Holding Force

- Test Conditions>Clamp screws are tightened with the tightening torque below and pressed with the test instrument (F in the diagram). The max. holding force is the load measured where the stage top surface starts to move.

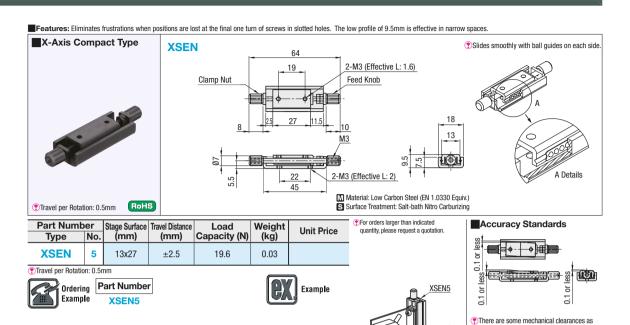
- Tightening Torque (Standard)
- b XDTSC (Standard, Dovetail Slide, Low Profile, Rack & Pinion) Size 50 and 60: 0.1N·m; Size 90: 0.15N·m

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lolding Force (Ref.)>		<max. (ref.)="" depending="" force="" holding="" on="" th="" tightening="" torce<=""></max.>					
Type		Max. Holding Force (Ref.)	Type	Tightening Torque (Standard at 100%)				
@ XDTS	50	30N	туре	50%	100%	150%		
	60	60N	XDTS60	50N	60N	90N		
	90	70N	XCRS60	40N	60N	100N		
6) XDTSC	50	10N						
	60	20N						

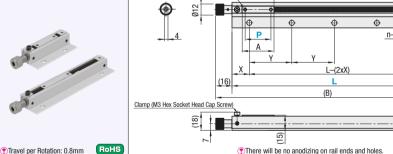


• Max. Holding Force (Ref.) will vary depending on the tightening torque variations. Ensure adequate safety margins for design.





Features: Five stroke lengths from 60mm to 200mm are offered, mainly for sensor adjustments during setup changes.



	W Material. Aluminum Alloy							
-	S Surface Treatment: Clear Anodize							
	A AccessoryHex So	cket Head	Cap Screv	N				
+	(P.121-	174 SCB4	-6) 2 pcs.					
ф			-/ -					
5/		Stage Surface (mm)						
		P	A					
		10	16					
		12	18					
		19	25					
_	(14)	25.4	31.4					
•	(25)							

■Accuracy Standards

shown above, and not recommended for positioning applications requiring accuracies

Part Number		Р	\ ,,	Υ	Number of	-	Distance between End Taps	Travel	Load	Unit
Type	L	(Selection) X	(When 150Y and 200Y)	Number of Holes (n)	(B)	L-(2xX)	Distance Capacity	Capacity (N)		
XSENC	60	10 12 19 25.4	10	-	2	76	40	L-A-23	9.8	
	70		14	-	2	86	42	L-A-25		
	80		18	-	2	96	44			
	150		20	-	2	166	110	L-A-30		
	150Y (*)		15	40	4		120			
	200		22	-	2	216	156	L-A-30		
	200Y (*)		20	40	5	5 210	160			

Models denoted by (*) will have added holes on the mounting surface. Travel per Rotation: 0.8mm









Fine Adjustments of Product Counter Sensors

