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

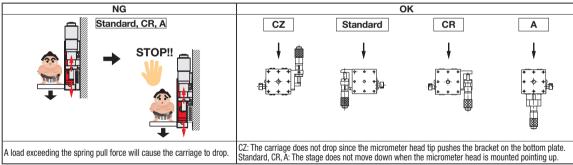
To mount a stage on the base surface, move the top plate to access mounting holes as shown below. X-Axis Stages XY-Axis Stages **Rotary Stages Goniometer Stages** 1)Plate Type 2No Plate Type

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.



Thowever, 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.

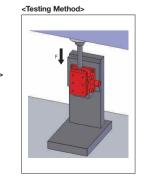
- Tightening Torque (Standard)
- (a) XDTS (Standard, Dovetail Slide, Rack & Pinion) Size 50 and 60: 0.1N·m; Size 90: 0.15N·m
- D XDTSC (Standard, Dovetail Slide, Low Profile, Rack & Pinion) Size 50 and 60: 0.1N·m; Size 90: 0.15N·m

<Max. Holding Force (R

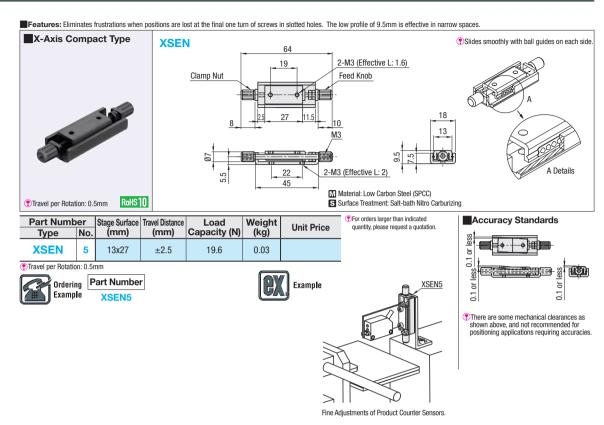
(F	Ref.)>		<max. (ref.)="" depending="" force="" holding="" on="" th="" tightening="" torque<=""></max.>					
_		Max. Holding Force (Ref.)	Time	Tightening Torque (Standard at 100%)				
٦	50	30N	Туре	50%	100%	150%		

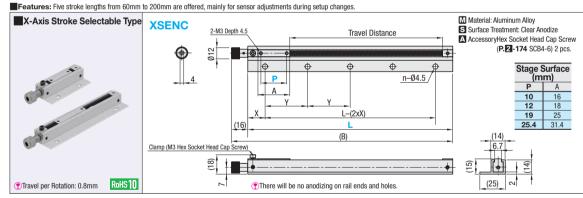
Туре		Max. Holding Force (Ref.)			
	50	30N			
	60	60N			
	90	70N			
	50	10N			
(b) XDTSC	60	20N			
	90	40N			
	40	60N			
© XCRS	60	60N			
	80	70N			

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Type	Tightening Torque (Standard at 100%)						
Type	50%	100%	150%				
XDTS60	50N	60N	90N				
XCRS60	40N	60N	100N				



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





Travel per Rotation: 0.8mm RoHS [U]			There will be no anodizing on rail ends and holes.					(25)			
Part Number Type L		P (Selection)	х	Y (When 150Y and 200Y)	Number of Holes (n)	(B)	Distance between End Taps L-(2xX)	Travel Distance	Load Capacity (N)	Unit Price	Accuracy Standards
31	60	· ·	10	-	2	76	40	L-A-23	. , ,		8
	70	ĺ	14	-	2	86	42				
	80	10	18	-	2	96	44	L-A-25			0.75
XSENC	150	12 19	20	-	2	166	110		9.8		0
	150Y (*)	25.4	15	40	4	100	120	L-A-30			set _ //
	200		22	-	2	216	156	L-A-30			
	200Y (*)		20	40	5	210	160				
										0.3 or less	
● Travel per Rotation: 0.8mm											
Ordering Example Part Number - P Example Sensor Position Adjustments for Large Variety of Manufacturing Schemes								There are some mechanical clearances as shown above, and not recommended for positioning applications requiring accuracies.			
							**One Point Long stroke moves can be made easily with use of a ball-point hex wrench.				
								<u> </u>			