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

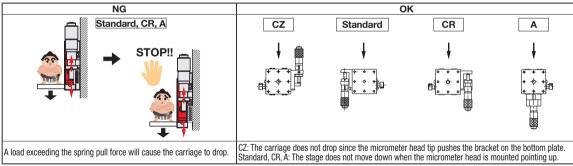
To mount a stage on the base surface, move the top plate to access mounting holes as shown below. XY-Axis Stages X-Axis Stages **Goniometer Stages Rotary Stages** 1)Plate Type 2No Plate Type

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)
- XDTSC (Standard, Dovetail Slide, Low Profile, Back & Pinion) Size 50 and 60: 0.1N·m: Size 90: 0.15N·m

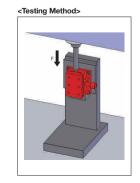
Max. Holding Force (Ref.)

<Max. Holding Force (Ref.)>

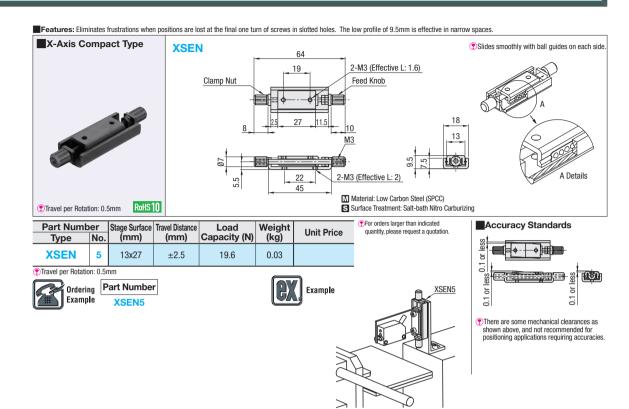
(a) XDTS

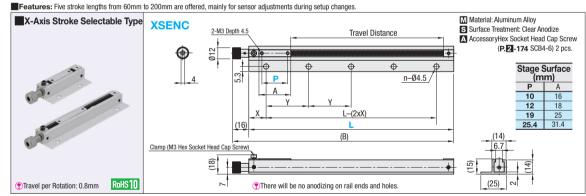
(b) XDTSC © XCRS

<max. (ref.)="" depending="" force="" holding="" on="" th="" tightening="" torqu<=""></max.>			
Туре	Tightening Torque (Standard at 100%)		
	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.





Fine Adjustments of Product Counter Sensors

