XSTS/XWSS Cleanroom / Vacuum / Heat Resistant Coupling - Slit - type (SUS316L)

Wei Selection Wei CAD Cleanroom CAD Chemical-proof SUS Stainless steel

Structure

• Clamping type **XSTS-C →** P.229 Outside Diameter $\phi 25/\phi 32$

- Hex Socket Head Cap Screw





XWSS-C → P.229







XSTS

Additional Keyway at Shaft Hole → P.803

Please feel free to contact us



Particle counter

Property

•		
	XSTS	XWSS
Low Particle	0	0
Vacuum-supported	0	0
Low Outgas	0	0
Heat-resistance	0	0
Chemical Resistance	0	0
Zero Backlash	0	0
High Torque	0	0
Allowable Misalignment	0	-
Corrosion resistance (all stainless steel)	0	0

O: Excellent O: Very good

- This is an all stainless steel spring coupling with single-piece construction. A slit is inserted into a cylindrical material.
- Clean washing and clean packaging are completed. It can be used in an environment where chemical resistance is required, such as FPD manufacturing device and semiconductor manufacturing device.
- High flexibility type **XSTS** and short type **XWSS** are standardized.
- In **XSTS**, a plate spring formed by a slit allows eccentricity, angular misalignment, and end-play to be accepted.

Application

FPD manufacturing device/Semiconductor manufacturing device/ Offshore instrument

 Material/Finish 	🚺 RoHS2 Compliant				
	XSTS-C / XWSS-C				
Main body	SUS316L Shot Blast				
Hex Socket Head Cap Screw	SUS316L HiMo				

 Related Products There is a slit-type flexible coupling MSX made of extra super duralumin (A7075).

→ P.97

Cleanroom washed and packed



➡ P.805

ightarrow	\mathbf{X}	 Part number specification 						
	••••	XSTS-	<u>32C</u> .	- 12-12				
	400000	Product code	Size	bore diameter				
uency	400000	Please refer	to dimer	nsional table for part number specification.				
👏 Cl	eanroom Wash & Pao	ckaging 🔿 P.	807 🚺	Change to Stainless Steel Screw - P.80				

Changed to the S.S. screw

• Technical Information

• Made of SUS316L superior in corrosion resistance

Characteristics

Material code	Characteristics
SUS304	This features smaller amount of carbon and is superior in corrosion resistance and weldability. This is the most standard product among austenitic stainless steel.
SUS316	This has good corrosion resistance and acid resistance as well as high-temperature strength due to addition of Mo and is used as heat resistant steel.
SUS316L	Carbon content is lower than that of SUS316 and

the grain boundary corrosivity and weldability are improved.



Eccentric Reaction Force



Chemical component

XSTS

Material	Chemical co	Chemical components (%)								
code	С	Si / Mn / P / S	Ni	Cr	Мо					
SUS304	0.08 or less		8.00- 10.50	18.00- 20.00	-					
SUS316	0.08 or less	Equivalent	10.00- 14.00	16.00- 18.00	2.00- 3.00					
SUS316L	0.03 or less		12.00- 15.00	16.00- 18.00	2.00- 3.00					

XWSS



• Change in static torsional stiffness due to temperature

This is a value under the condition where the static torsional stiffness at 20℃ is 100%.

The change of **XSTS XWSS** in torsional stiffness due to temperature is small and the change in responsiveness is extremely small. However, if the unit is used at higher temperature, be careful about misalignment due to elongation or deflection of the shaft associated with thermal expansion.



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XSTS-C / XWSS-C Cleanroom / Vacuum / Heat Resistant Coupling - Slit - type (SUS316L) - Clamping Type

Tool Chemical-proof SUS Stainless steel



Outside diameter ϕ 25, ϕ 32



Outside diameter ϕ 40 - ϕ 63

Dimensions											
Part Number 🜗	A	L	w	F	G	м	Screw Tightening Torque*1 (N•m)				
XSTS-25C	25	8.5	31	4.25	9	M3	1.5				
XSTS-32C	32	12	41	6	11	M4	2.5				
XSTS-40C	40	17	56	8.5	14	M5	4				
XSTS-50C	50	21	71	10.5	18	M6	8				
XSTS-63C	63	26	90	13	24	M8	16				
XWSS-25C	25	9.6	25	4.8	9	M3	1.5				
XWSS-32C	32	12.6	32	6.3	11	M4	2.5				

Part Number	Stand D1 • D	Standard Bore Diameter D1 • D2 • 2															
	5	6	8	10	11	12	14	15	16	18	19	20	22	24	25	28	30
XSTS-25C	•	•	•	•													
XSTS-32C			•	•	•	•	•										
XSTS-40C			•	•	•	•	•	•	•	•							
XSTS-50C						•	•	•	•	•	•	•	•				
XSTS-63C							•	•	•	•	•	•	•	•	•	•	•
XWSS-25C	•	•	•	•													
XWSS-32C			•	•	•	•	•										

• All products are provided with hex socket head cap screw.

• Recommended dimensional allowances of applicable shaft diameter are h6 and h7.

*1: This is a screw tightening torque when inserting a degreased shaft.



Perform	mance								
Part Number	Max. Bore Diameter (mm)	Rated*1 torque (N•m)	Max. Rotational Frequency (min ⁻¹)	Moment*2 of Inertia (kg•m ²)	Static Torsional Stiffness (N•m/rad)	Max. Lateral Misalignment (mm)	Max. Angular Misalignment (°)	Max. Axial Misalignment (mm)	Mass*² (g)
XSTS-25C	10	2	25000	7.1×10 ^{−6}	330	0.15	2	±0.4	78
XSTS-32C	14	3.5	19000	2.7×10 ⁻⁵	850	0.15	2	±0.5	170
XSTS-40C	18	8	15000	9.0×10 ⁻⁵	1000	0.2	2	±0.5	370
XSTS-50C	22	15	12000	2.8×10 ⁻⁴	1400	0.2	2	±0.5	750
XSTS-63C	30	35	10000	8.8×10 ⁻⁴	1800	0.2	2	±0.5	1400
XWSS-25C	10	2	25000	6.3×10 ⁻⁶	720		1	±0.2	69
XWSS-32C	14	3.5	19000	2.2×10 ⁻⁵	1300		1	±0.2	150

*1: Correction of rated torque due to load fluctuation is not required.

*2: These are values with max. bore diameter.

 Part number specification 					
XWSS-25C-8-10					

XWSS-25C-	8-10
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O Additional Keyway at Shaft Hole → P.803	States Cleanroom Wash & Packaging → P.807	(In the second s
Please feel free to contact us	Cleanroom washed and packed	Changed to the S.S. screw

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