

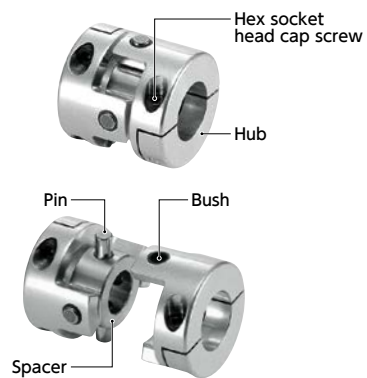
XUT-C Flexible Couplings - Cross Joint Type

[WEB Selection Tool](#)
[WEB CAD Download](#)
[High Rigidity](#)
[Vibration absorption](#)
[Small Eccentric Reaction Force](#)

Structure

Clamping Type

XUT-C → P.xxxx



Recommended Applicable Motor

	XUT-C
Servomotor	○
Stepping Motor	○
General-purpose Motor	●

○: Excellent ○: Very good ●: Available

Property

	XUT-C
Zero Backlash	○
High Torque	○
High Torsional Stiffness	○
Allowable Misalignment	○
Vibration Absorption Characteristics	○

○: Excellent ○: Very good

- This is a cross joint type flexible coupling.
- Slippage of the bush built in the hubs and the pins of the spacer allows eccentricity and angular misalignment to be accepted.
- The high accuracy fitting of pin and bush allows the extremely small backlash.
- The load on the shaft generated by misalignment is small and the burden on the shaft is reduced.

Application

Actuator / XY stage / Index table

Material/Finish



	XUT-C
Hub	A2017*1
Spacer	SUS304
Pin	SUJ2
Bush	Polyimide
Hex Socket Head Cap Screw	SCM435 Ferrosferic Oxide Film (Black)

*1: Anodized products are also available. Please contact our customer service.

Part number specification

XUT-25C-6-8

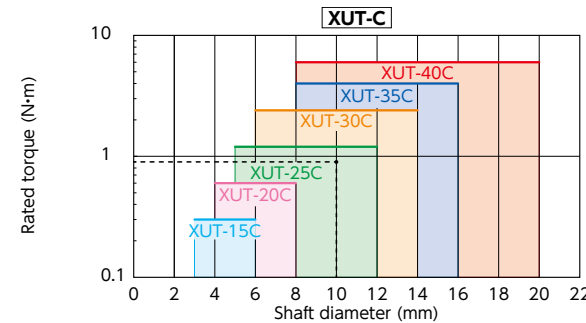
Product Code | Size | Bore Diameter

Please refer to dimensional table for part number specification.

Selection

Selection Based on Shaft Diameter and Rated Torque

The area bounded by the shaft diameter and rated torque indicates the selection size.



Selection Example

In case of selected parameters of shaft diameter of ϕ 10 and load torque of 0.9 N·m, the selected size is

XUT-25C

Selection Based on the Rated Output of the Servomotor

Rated Output (W)	Servomotor Specifications*1			Selection Size
	Diameter of Motor Shaft (mm)	Rated Torque (N·m)	Instantaneous Max. Torque (N·m)	
10	5 - 6	0.032	0.096	XUT-15C
20	5 - 6	0.064	0.19	XUT-15C
30	5 - 7	0.096	0.29	XUT-20C
50	6 - 8	0.16	0.48	XUT-20C
100	8	0.32	0.95	XUT-25C
200	9 - 14	0.64	1.9	XUT-30C
400	14	1.3	3.8	XUT-35C
750	16 - 19	2.4	7.2	-

*1: Motor specifications are based on general values. For details, see the motor manufacturer's catalogs. This is the size for cases where devices such as reduction gears are not used.



The high accuracy fitting of pin and bush allows the extremely small backlash.

For the bush of **XUT**, a polyimide resin with excellent abrasion-resistance is adopted.

The backlash at the initial stage is maintained for a long period.



[Additional Keyway at Shaft Hole → P.xxxx](#)
[Cleanroom Wash & Packaging → P.xxxx](#)
[Change to Stainless Steel Screw → P.xxxx](#)

Please feel free to contact us | Not Available | Available / Add'l charge