

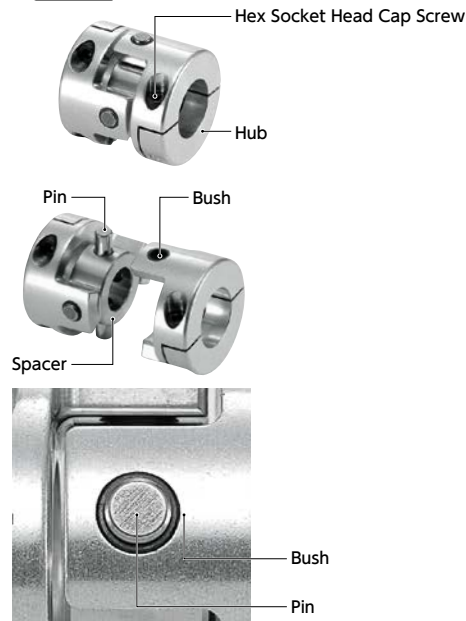
XUT Flexible Coupling - Cross joint - type

[WEB Selection Tool](#)
[WEB CAD Download](#)
[High Rigidity](#)
[Vibration absorption](#)

Structure

- Clamping type

XUT-C → P.160



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

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

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

- Applicable motors

	XUT
Servomotor	○
Stepping Motor	○
General-purpose motor	○

○: Excellent ○: Very good

- Property

	XUT
Zero Backlash	○
High torque	○
High Torsional Stiffness	○
Allowable Misalignment	○
Vibration absorption	○

○: 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*
Spacer	SUS304
Pin	SUJ2
Bush	Polyimide
Hex Socket Head Cap Screw	SCM435 Ferrosferic oxide film

*Manufacturing alumite treatment products is also possible. Please feel free to contact our customer service.

- Part number specification

XUT-25C-6-8

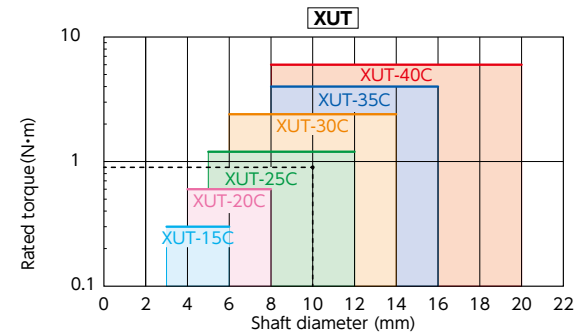
Product Code Size Bore Diameter

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 is 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			Selection size
	Diameter of motor shaft (mm)	Rated torque (N·m)	Instantaneous maximum 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	-

*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.



[Additional Keyway at Shaft Hole](#) → P.788

[Cleanroom Wash & Packaging](#) → P.792

[Change to Stainless Steel Screw](#) → P.790

Available / Add'l charge

Please feel free to contact us

Available / Add'l charge