

XBW-C/XBWS-C Flexible Couplings - Disk Type

Zero Backlash High Rigidity SUS Stainless steel

Structure



Clamping Type → P.xxxx

XBW-C Aluminum Alloy Hub

XBWS-C Made of All Stainless Steel

Recommended Applicable Motor

	XBW-C	XBWS-C
Servomotor	○	○
Stepping Motor	○	○
General-purpose Motor	●	●

○: Excellent ○: Very good ●: Available

Property

	XBW-C	XBWS-C
Zero Backlash	○	○
High Torque	○	○
High Torsional Stiffness	○	○
Allowable Misalignment	○	○
Corrosion Resistance (All S.S.)	—	○

○: Excellent ○: Very good

- This is a disk type flexible coupling.
- The stainless steel disk allows eccentricity, and angular misalignment, and end-play.
- Wide variation of outside diameter ϕ 15 - ϕ 104 and bore diameter ϕ 3 - ϕ 50.
- Extra super duralumin (A7075) featuring the highest strength among aluminum alloy is adopted for **XBW-C** hubs.
- **XBWS-C** is the all stainless steel type with stainless steel hubs.

Application

Actuator / Surface-mount machine / High precision XY stage / Index table

Material/Finish



	XBW-C	XBWS-C
Hub	A7075*1	SUS303
Spacer	A7075*1	SUS303
Disk Fixing Bolts	SCM435 Ferrosoferric Oxide Film (Black)	SUSXM7
Disk	SUS304	SUS304
Collar	SUS304	SUS304
Hex Socket Head Cap Screw	SCM435 Ferrosoferric Oxide Film (Black)	SUSXM7

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

Related Products

The Double-Disk type Flexible Coupling **XHW-C** is compatible with the servomotor with 350% instantaneous max. torque is available.

→ P.xxxx



Part number specification

XBW-25C2-8-8

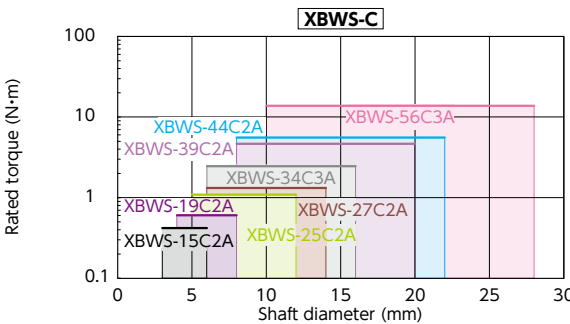
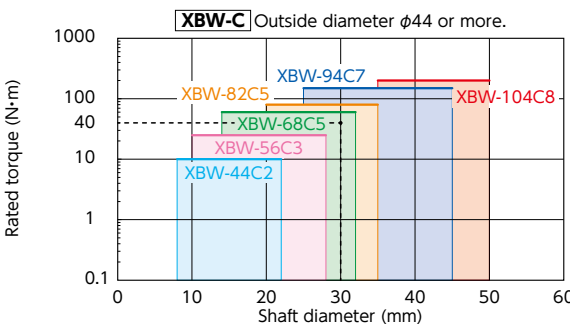
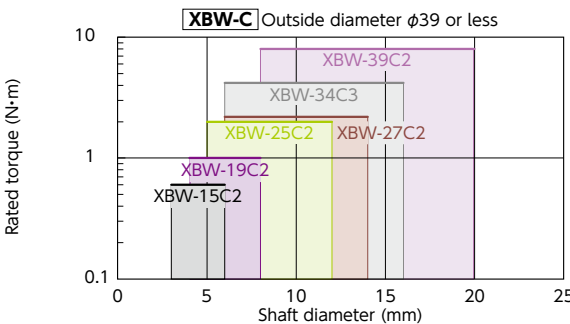
Product Code Size Bore Diameter

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 30 and load torque of 40 N·m, the selected size is **XBW-68C5**.

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)	XBW-C Aluminum Alloy Hub	XBWS-C Made of All Stainless Steel
10	5 - 6	0.032	0.096	XBW-15C	XBWS-15C
20	5 - 6	0.064	0.19	XBW-15C	XBWS-15C
30	5 - 7	0.096	0.29	XBW-19C	XBWS-19C
50	6 - 8	0.16	0.48	XBW-19C	XBWS-19C
100	8	0.32	0.95	XBW-19C	XBWS-25C
200	9 - 14	0.64	1.9	XBW-27C	XBWS-34C
400	14	1.3	3.8	XBW-34C	XBWS-39C
750	16 - 19	2.4	7.2	XBW-39C	XBWS-56C

*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.

Additional Keyway at Shaft Hole → P.xxxx Available / Add'l charge
Cleanroom Wash & Packaging → P.xxxx Please feel free to contact us
Change to Stainless Steel Screw → P.xxxx Please feel free to contact us