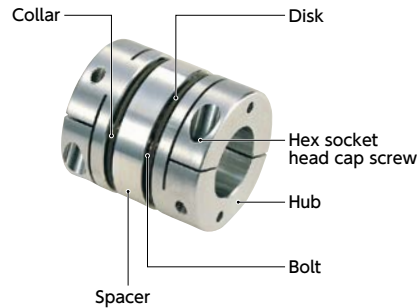


# XBW-C/XBWS-C Flexible Couplings - Disk Type

[WEB Selection Tool](#)
[WEB CAD Download](#)
[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  $\phi$  15 -  $\phi$  104 and bore diameter  $\phi$  3 -  $\phi$  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

RoHS2 Compliant

	XBW-C	XBWS-C
Hub	A7075*1	SUS303
Spacer	A7075*1	SUS303
Bolt	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.

### Part number specification

**XBW-25C2-8-8**

Product Code    Size    Bore Diameter

Please refer to dimensional table for part number specification.

### Related Products

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

→ P.xxxx



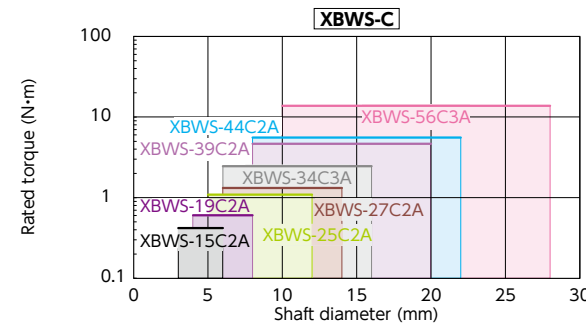
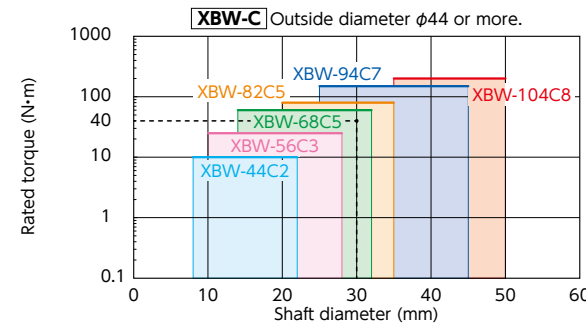
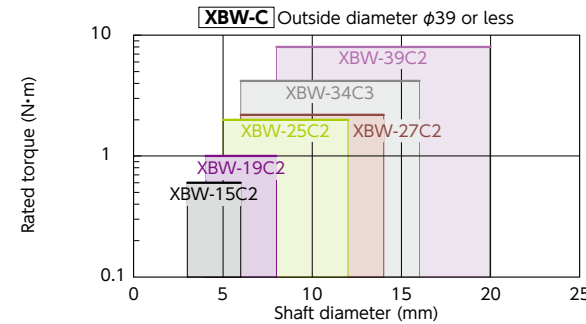
## Selection

### Selection Based on Shaft Diameter and Rated Torque

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



GOOD DESIGN



### Selection Example

In case of selected parameters of shaft diameter of  $\phi$  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](#)   
 [Cleanroom Wash & Packaging → P.xxxx](#)   
 [Change to Stainless Steel Screw → P.xxxx](#)  
 Available / Add'l charge    Please feel free to contact us    Please feel free to contact us