

XHW-C / XHW-C-L / XHW-AC Flexible Couplings - Disk Type

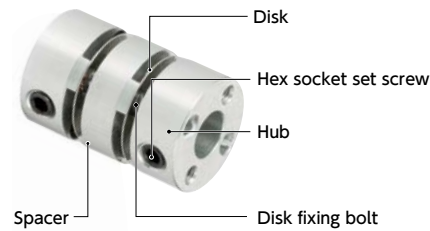
Zero Backlash High torque High Rigidity

Structure

Set Screw Type

XHW-10

Outside diameter $\phi 10$

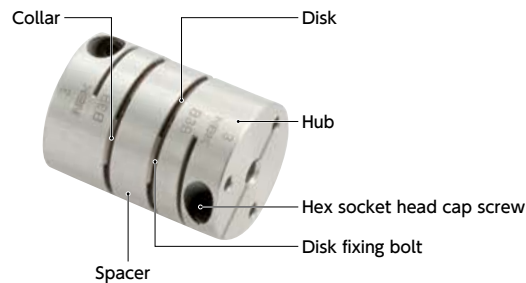


Clamping Type

XHW-C

XHW-C-L

Outside diameter $\phi 15 - \phi 98$



Adapter + Clamping Type

XHW-AC

Outside diameter $\phi 34 - \phi 79$



Part Number Specification

XHW-34C-10-11

Product Symbol Size Bore Diameter

Please refer to dimensional table for part number specification.

Applicable motors

	XHW-C / XHW-C-L / XHW-AC
Servomotor	○
Stepping Motor	◎
General-purpose Motor	●

◎: Excellent ●: Available

Property

	XHW-C / XHW-C-L / XHW-AC
Zero Backlash	◎
High-gain Supported	○
High Torque	◎
High Torsional Stiffness	◎
Allowable Misalignment	○

◎: Excellent ○: Very good

- This is a disk type flexible coupling.
- High-torque specification with rated torque 1.5 times higher than conventional products.
- This is the most appropriate for a servomotor with instantaneous max. torque of 350%.
- The stainless steel disk allows eccentricity, angular alignment, and end-play.
- Standardized **XHW-AC** adapter type that also supports 1/10 taper shafts of servomotors.

Application

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

Material/Finish



	XHW-10	XHW-C / XHW-C-L	XHW-AC
Hub	A2017 Anodized*1	A2017 Anodized*1	A2017 Anodized*1
Spacer	A2017 Anodized	A2017 Anodized	A2017 Anodized
Disk Fixing Bolt	SWCH16A Black Trivalent Chromate Treatment*2	SCM435 Ferrosferric Oxide Film (Black)	SCM435 Ferrosferric Oxide Film (Black)
Disk	SUS304	SUS304	SUS304
Collar	-	SUS304	SUS304
Adapter	-	-	SUS303
Hex Socket Head Cap Screw	-	SCM435 Ferrosferric Oxide Film (Black)	SCM435 Ferrosferric Oxide Film (Black)
Hex Socket Set Screw	SCM435 Ferrosferric Oxide Film (Black)	-	-

*1: With regard to bore surface treatment, process needs may result in a mixture of parts with and without surface treatment. This will not lead to any issues in terms of coupling performance.

*2: Because **XHW-10** is a disk fixing bolt with anti-loosening applied, its heat resistant temperature is 90°C.

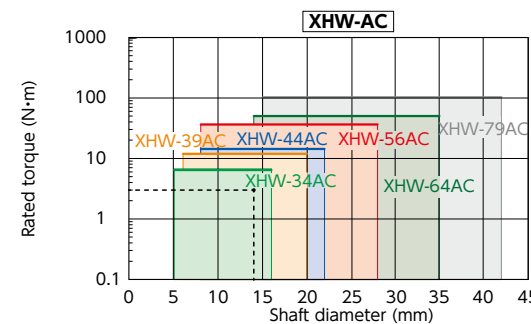
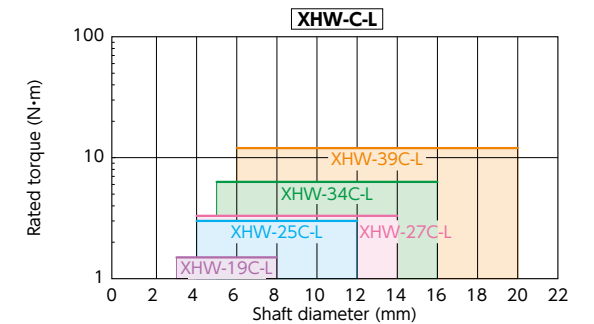
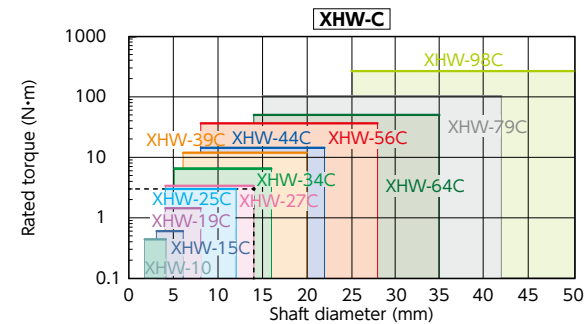
• Bore/keyway additional modification and stainless steel screw change service are not available for **XHW-10**.



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 $\phi 14$ and load torque of $3N \cdot m$, the selected size is

XHW-27C.

Selection Based on the Rated Output of the Servomotor

XHW-C supports the servomotor with instantaneous max. torque increased to 350% of the rated torque and the size can be more reduced than the size of conventional product **XBW-C**.

Rated Output (W)	Servomotor Type				Servomotor Specifications*1			Selection Size	
	Mitsubishi Electric Corporation	YASKAWA Electric Corporation	SANYO DENKI Co., Ltd.	KEYENCE CORPORATION	Diameter of Motor Shaft (mm)	Rated Torque (N·m)	Instantaneous Max. Torque (N·m)	XHW-C	XBW-C
100					8	0.32	1.1	XHW-19C	XBW-25C
200					14	0.64	2.2	XHW-27C	XBW-34C
400	HG-KR	SGMJV	R2	SV	14	1.3	4.5	XHW-34C	XBW-39C
750					16 - 19	2.4	8.4	XHW-39C	XBW-44C

*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 Available / Add'l charge	Cleanroom Wash & Packaging Please feel free to contact us	SUS Change to Stainless Steel Screw Available / Add'l charge
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