

# XHW / XHW-L Flexible Coupling - Disk - type Additional Size

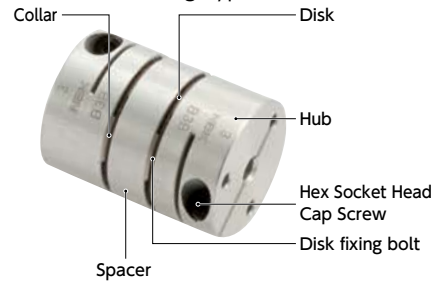
[WEB Selection Tool](#)
[WEB CAD Download](#)
[Zero Backlash](#)
[High torque](#)
[High Rigidity](#)

## Structure

● Clamping type → P.xxxx

**XHW-C** Standard Type

**XHW-C-L** Long Type



● Material/Finish

RoHS Compliant

|                           | XHW-C / XHW-C-L                            |
|---------------------------|--|
| Hub                       | A2017<br>Alumite Treatment                 |
| Spacer                    | A2017<br>Alumite Treatment                 |
| Disk fixing bolt          | SCM435<br>Ferrosoferric Oxide Film (Black) |
| Disk                      | SUS304                                     |
| Collar                    | SUS304                                     |
| Hex Socket Head Cap Screw | SCM435<br>Ferrosoferric Oxide Film (Black) |

● Applicable motors

|                       | XHW / XHW-L |
|-----------------------|-------------|
| Servomotor            | ◎           |
| Stepping Motor        | ◎           |
| General-Purpose Motor | ◎           |

◎: Excellent ○: Very good

● Property

|                          | XHW / XHW-L |
|--------------------------|-------------|
| 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 the instantaneous max. torque of 350%.
- The stainless steel Disk allows the eccentricity, angular misalignment, and end-play.

● Application

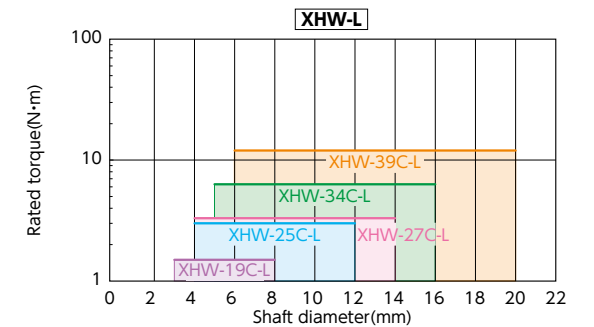
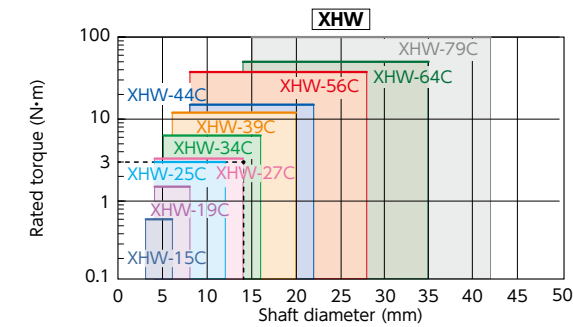
Actuator / Surface-mount machine / High precision XY stage / Index table



## 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  $\phi$  14 and load torque of 3 N·m, the selection size is

**XHW-27C**.

● Selection based on the rated output of the servomotor

**XHW** 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**.

| Rated Output (W) | Servomotor type                 |                              |                       |                     | Servomotor Specifications*   |                    |                                 | 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 |

\*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.

● Part number specification

**XHW-34C-10-11**

Product code | Size | bore diameter

Please refer to dimensional table for part number specification.

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