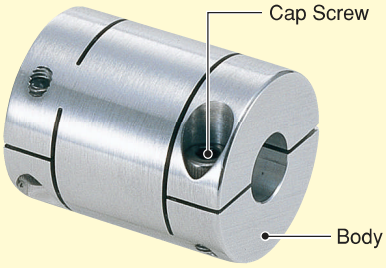
RoHS Compliant

NEW

XRP

For Servomotors

Configuration



Material & Finish

Body	A7075
Cap Screw	SCM435, Black Oxide Coating*

* Stock screws can be replaced with stainless steel screws.
Please take advantage of our stainless steel screw option.
For more information please refer to page 16.

Features

Merits

■ High Precision

- High Precision Rigid Coupling
- The utmost limit of accuracy in coaxiality, bore diameters, and run-out
- Inspection report documentation included with each product
- Light Weight, Low Moment of Inertia, High Response
- Finished products featuring two different end bore diameters available in stock

Application	
Servomotor	◎
Stepping Motor	◎
General-Purpose Motor	—
Encoder	◎
Special Characteristics	
Zero Backlash	◎
High Torsional Stiffness	◎
High Torque	●
Allowable Misalignment	—
Vibration Absorption	—
Electrical Insulation	—
Corrosion Resistant (All Stainless Steel)	—

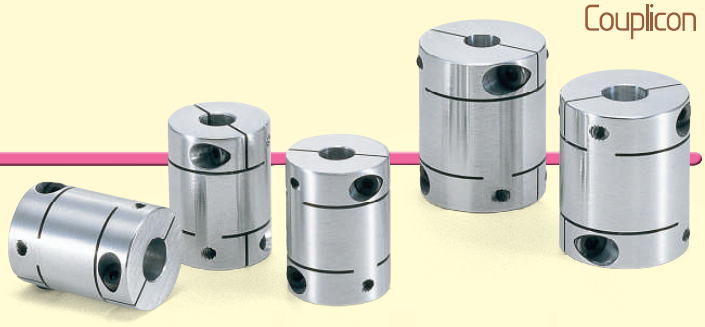
◎ : Excellent ● : Very Good

When Ordering

Specify product code and both bore diameters.

XRP-19C-6×8

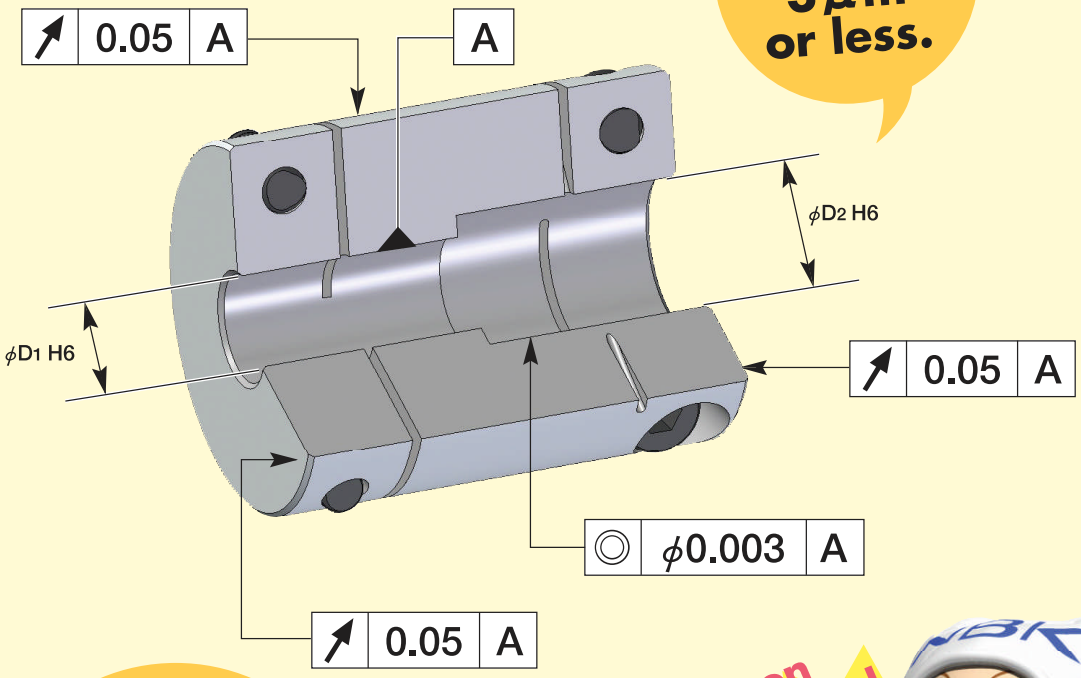
Product Code D_1 D_2



In Pursuit of High Precision

- Coaxial level between bores is 3 μm or less.
- Tolerance of bore is H6.
- Run-out of the coupling on outer diameter and side run-out, using the bore center as a reference, are both kept below 50 μm.
- Construction of shaft clamp takes rotational balance into special account This minimizes unbalance.
- Manufactured from extra super duralumin (A7075) - the highest strength aluminum alloy.

Coaxial Level 3 μm or less.

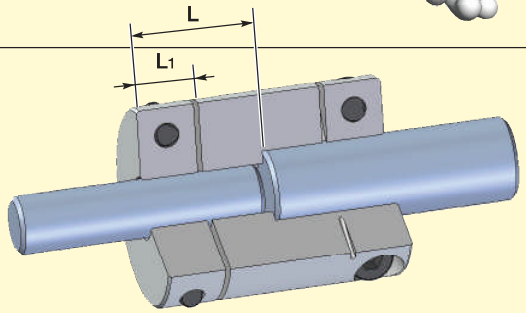


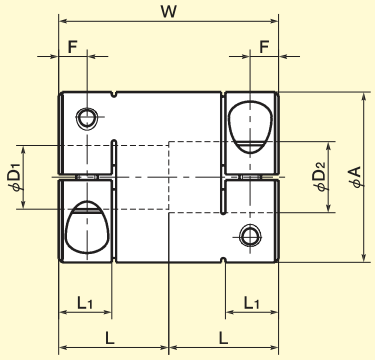
High Precision Rigid Coupling

Regarding Shaft Insertion Length

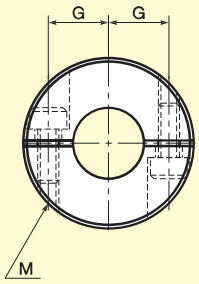
Shaft insertion length should be greater than L_1 (clamp area length) with a maximum length of L.
In order to maintain high precision, please insert shaft as close as possible to L.
However, take care that the two shaft ends do not touch.

If shaft insertion length is less than L_1, run out and coaxial deviation may result.





CAD DATA 2D 3D
down load



Dimensions

unit:mm

Product Code		A	L	L_1	W	F	G	M	Wrench Torque (N·m)
XRP-16C		16	10	5	20	2.6	5	M2	0.5
XRP-19C		19	13	6.5	26	3.5	6.25	M2.5	1
XRP-24C		24	15	7	30	3.75	7.75	M3	1.5
XRP-34C		34	20	8	40	4	12	M3	1.5
XRP-39C		39	24	10	48	5	14.5	M4	2.5

Product Code	Stock Bore Diameters $D_1 \times D_2$		
XRP-16C	5× 5	5× 6	6× 6
XRP-19C	6× 6	6× 8	8× 8
XRP-24C	8× 8	8×10	10×10
XRP-34C	10×10	10×12	12×12
XRP-39C	12×12	12×14	15×15

- All products come with cap screws.
- Recommended tolerance for shaft diameters is h6 and h7.
- Specialty goods with nonstandard bore diameters can also be produced. Please contact the customer service for more information.

Specifications

Product Code	Max. Bore (mm)	Rated* Torque (N·m)	Max.* Torque (N·m)	Max. Rotational Frequency (min^{-1})	Moment** of Inertia ($kg \cdot m^2$)	Mass** (g)
XRP-16C	6	0.6	1.2	39000	3.1×10^{-7}	9
XRP-19C	8	1.4	2.8	33000	8.0×10^{-7}	15
XRP-24C	10	2.3	4.6	26000	2.7×10^{-6}	32
XRP-34C	15	2.8	5.6	18000	1.4×10^{-5}	87
XRP-39C	18	4.7	9.4	16000	3.9×10^{-5}	140

* Adjustment of rated and maximum torque specifications for load fluctuations is not required.
For more detailed information, please refer to For Better Drive on page 34.
** Moment of inertia and mass figures based on maximum bore dimensions.