

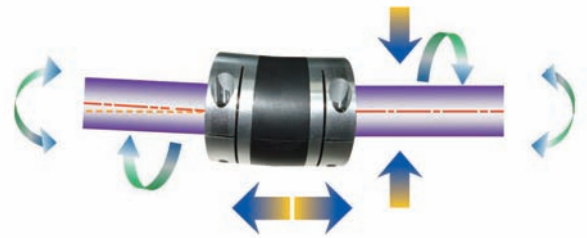
SHR Series

Sungil High Performance Rubber Coupling

'SI, CO' mark (Trademark : 40-2012-0061376) indicates that the authenticity is certified.

'SHR' (Trademark : 40-2012-0044880) is the original trademark for SUNGIL's High performance Rubber Coupling.

Sungil High Performance Rubber coupling is realized by optimized hub and anti-vibration rubber's design. It shows the ideal responsiveness of a servo system by high torsional stiffness and absorbability in vibrations and gain. The hub designed to increased the contact area has distributed the shear stress that applies on the anti vibration rubber. It is the best product which can transmit high torque not affected by any mechanical vibrations.



※ Registration of Patent : 10-1165885

Features



Application

- Excellent vibration absorbability
- Excellent positioning in high gain of servo motor
- Stable in high rotation speed
- CW and CCW rotational characteristics are identical
- Electric insulation
- High torsional stiffness
- High permissible torque

- Servo motor
- Stepping motor
- General-purpose motor
- Precise Position controlling system
- X-Y table drive, Precise measuring instrument
- Index table



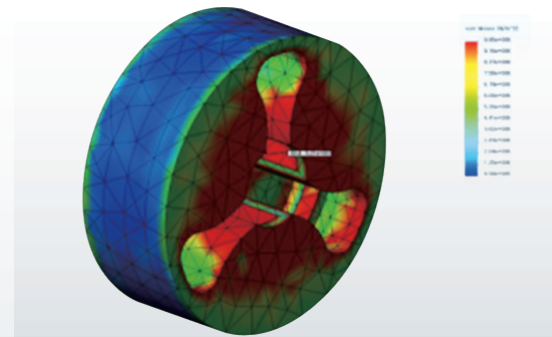
Structure & Material



Anti-Vibration Rubber

※ Registration of patent : 10-1165885

※ Registration of design : 30-0593190 and its similar design



- High torsional stiffness and permissible torque value of SGF is realized by an optimal design of Anti-Vibration rubber with CAE.

- To avoid the stress concentration on the hub's leg which contacts with the rubber medium, we rounded the legs.

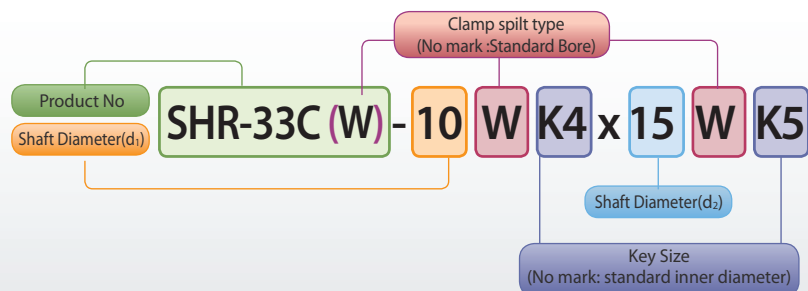
Chemical Resistance of HNBR

Aging Resistance, Weather Resistance, Ozone Resistance	◎
Gasoline, Light Oil	○ ~ ◎
Water, Organic Acid, Alcohol	◎
Strong, Weak Alkali	◎
Acetic Ethyl, Ether	× ~ △

◎ : Excellent, ○ : Usable,

△ : Usable under certain conditions, × : Unusable

How to order product



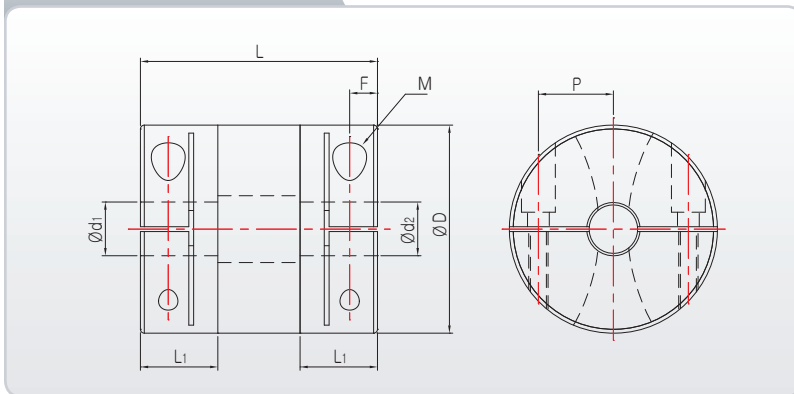
※ Please mark each inner diameter size.

※ Clamp split hub is also available. (Please mark 'W' right behind the inner bore you want to separate)

SHR Series Sungil High Performance Rubber Coupling

Please, download CAD DATA from www.sungilfa.com

SHR- ■ ■ C



Dimensions & Performance

Product Number	Dimension (mm)(±0.3)					Fastening Bolt M	Fastening Torque (N·m)
	D	L	L1	F	P		
SHR-14C	13,8	22,4	6,7	2,05	4,5	M1,6	0,3
SHR-18C	17,8	25,5	7,95	2,65	6,1	M2	0,6
SHR-24C	23,8	31,2	9,6	3,1	8,5	M2,6	1,1
SHR-29C	28,8	35	11	3,7	10,5	M3	1,8
SHR-33C	32,8	37	12	3,8	11,75	M3	1,8
SHR-38C	37,8	47	15,5	4,55	14	M4	3,7
SHR-43C	42,8	48	15,5	4,75	15,5	M4	3,7
SHR-55C	54,8	59	19,5	5,5	19,5	M5	8,5

Product Number	Max Inner Dia (mm)	Rated Torque (N·m)	Max Torque (N·m)	Max RPM (min ⁻¹)	Moment of Inertia (kg·m ²)	Static Torsional Stiffness (N·m/rad)	Mass (g)	Permissible Misalignment		
								Angle (°)	Parallel (mm)	End-Play (mm)
SHR-14C	6	1,0	2,0	42,000	1,6×10 ⁻⁷	41	8	1,5	0,15	±0,2
SHR-18C	8	1,9	3,8	33,000	3,9×10 ⁻⁷	84	12	1,5	0,15	±0,2
SHR-24C	12	3,5	7	25,000	1,5×10 ⁻⁶	162	28	1,5	0,15	±0,2
SHR-29C	15	5,7	11,4	21,000	3,9×10 ⁻⁶	209	50	1,5	0,20	±0,3
SHR-33C	16	7	14	18,000	7,2×10 ⁻⁶	370	70	1,5	0,20	±0,3
SHR-38C	20	12	24	16,000	1,4×10 ⁻⁵	479	112	1,5	0,20	±0,3
SHR-43C	20	16	32	14,000	2,4×10 ⁻⁵	610	140	1,5	0,20	±0,3
SHR-55C	25	31,5	63	11,000	8,6×10 ⁻⁵	1430	310	1,5	0,20	±0,3

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Standard Inner diameter

Product Number	Stock Bores							
	Standard Inner diameter (d ₁ ,d ₂) Standard Inner Diameter(mm)							
SHR-14C	3×4	3×5	4×4	4×5	4×6	4,5×5	5×5	5×6
	6×6							
SHR-18C	4×4	4×5	4×6	5×5	5×6	5×7	5×8	6×6
	6×6,35	6×7	6×8	6,35×8	8×8			
SHR-24C	5×5	5×6	5×8	6×6	6×8	6×10	6×11	6×12
	6,35×8	6,35×10	8×8	8×10	8×11	8×12	10×10	10×12
	12×12							
SHR-29C	6×6	6×8	6×10	8×8	8×10	8×11	8×12	8×14
	8×15	10×10	10×11	10×12	10×14	10×15	11×12	12×12
	12×14	12×15	14×14	14×15	15×15			
SHR-33C	8×8	8×10	8×11	8×12	8×14	8×15	10×10	10×11
	10×12	10×14	10×15	11×11	11 X 12	12×12	12×14	12×15
	14×14	14×15	15×15	16×16				
SHR-38C	8×8	8×10	8×12	10×10	10×12	10×14	10×15	10×16
	12×12	12×14	12×15	12×16	12×19	12×20	14×14	14×15
	14×16	15×15	15×16	15×19	16×16	17×17	20×20	
SHR-43C	10×10	10×12	10×14	12×12	12×14	12×15	12×16	12×19
	14×14	14×15	14×16	14×19	15×15	15×16	15×19	15×20
	16×16	16×19	17×17	19×20	20×20			
SHR-55C	12×12	12×14	14×14	14×15	14×16	15×15	15×19	15×20
	15×25	19×20	19×24	20×20	20×25	24×25	25×25	

- Hexagonal socket headed bolts are included in every product
- We recommend h7 for shaft tolerance.
- Non-standard inner diameter or keyway is available
- Please contact us for nonstandard inner diameter before ordering Slip Torque
- About each inner diameter size, sometimes slip torque can be smaller than max torque.
- Please contact us about detail information.

Correction factor according to Temperature

Ambient temperature	-20℃ ~ 30℃	30℃ ~ 40℃	40℃ ~ 60℃	60℃ ~ 80℃
Correction factor	1	0,8	0,7	0,55

- No correction is needed for rated torque and maximum torque under load fluctuation.
- When the ambient temperature exceeds 30℃, you need to correct the rated and maximum torque by using the correction factor in the table above.
- Operational temperature is from -20℃ to 80℃.