



벤처기업



벤처디자인



INNOBIZ
중소기업 기술혁신 협회

koita
기업부설연구소

فروشگاه اینترنتی اتوماسیون ۲۴
Automation24
(۰۲۵) ۳۶۶۱۳۷۷۸ و (۰۲۵) ۳۶۶۱۳۶۷۸



SUNG-IL

Ultra-precision Couplings
Connecting Shaft
Support Units
F.A. Units
A.P. Lock



Sung-il Machinery Co., Ltd.

SRB Series



Radial Beam Flexible Coupling

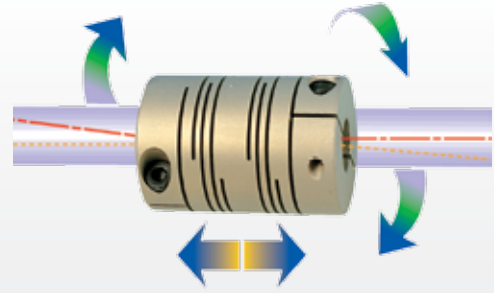
'SI. CO' mark (Trademark : 40-2012-0061376) indicates that the authenticity is certified.
 'SRB' (Trademark : 40-2012-0044883) is the original trademark for SUNG-IL's Radial Beam Coupling.

This product is a radial beam type flexible coupling that is made of high strength aluminum alloy (Al7075-T6) in one piece structure. Sung-il machinery has maximized the advantage of the German VMT (Helical) Type and made up for the weak points.

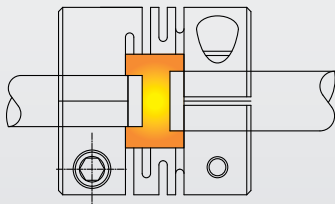


Features

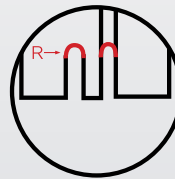
- Zero Backlash
- Body material: Al 7075-T6 (High strength aluminum alloy), **Stainless steel**
- High Torsional Stiffness, High Permissible Torque
- Stability in high rotational speed
- Low moment of Inertia
- Excellent durability of oil and chemical resistance.



※ Registration of Design 30-027587



It becomes easy to assemble by processing the inside of coupling widely



Rounding (R) is machined at the end part of the slit of every Sung-il Radial Beam Coupling. So it can avoid stress concentration and minimize the damage by parallel, angular misalignment.

-Registration of Design-

(※ A product that is not machined by rounding is not a Sung-il (SI)'s Product)

Structure & Material

SRB Type



Clamp Type



Set Screw Type

Type	SRB-□□	SRB-□□C	SRBS-□□	SRBS-□□C
Fastening Type	Set Screw	Clamp	Set Screw	Clamp
Material	High strength aluminum alloy (Al 7075-T6)		Stainless Steel	
Surface Treatment	Alumite		-	

SRBM Type



Clamp Type



Set Screw Type

Type	SRBM-□□	SRBM-□□C	SRBMS-□□C
Fastening Type	Set Screw	Clamp	Clamp
Material	High strength aluminum alloy (Al 7075-T6)		Stainless Steel
Surface Treatment	Alumite		-

※ Surface treatment is not processed for SRB-8 products.

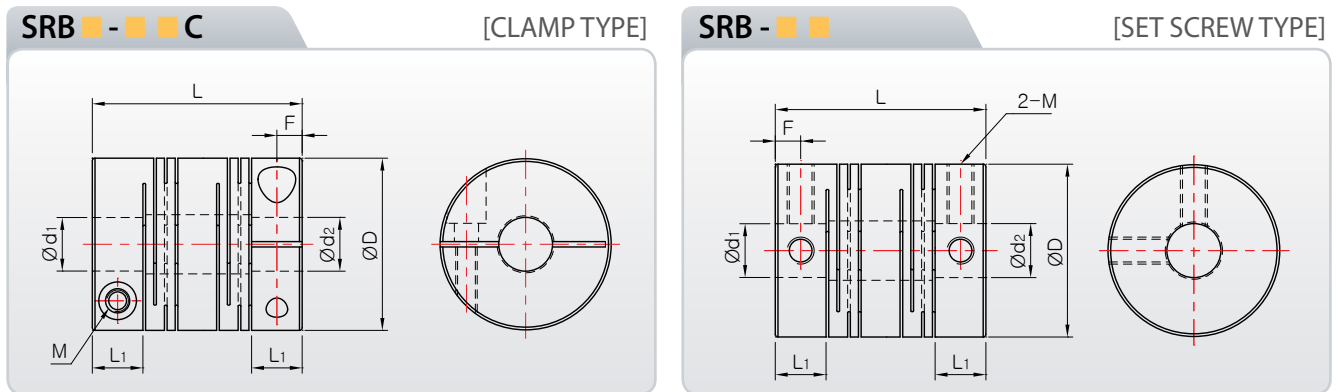
How to order product



※ Please mark each inner diameter size.

SRB Series Radial Beam Flexible Coupling

Please, download CAD DATA from www.sungilfa.com



Dimensions & Performance

※ Material : High strength aluminum alloy (Al 7075-T6)

Product Number	Dimension (mm) (±0.3)				Fastening Bolt M	Fastening Torque (N·m)	Max-RPM (min ⁻¹)	Max Torque (N·m)	Rated Torque (N·m)	Torsional Stiffness (N·m/rad)	Moment of Inertia (kg·m ²)	Mass (g)	Permissible Misalignment		
	D	L	L ₁	F									Angle (°)	Parallel (mm)	End-Play (mm)
SRB-12C	12.7	19	5	2.5	M2	0.5	35,000	0.4	0.2	40	1.05 × 10 ⁻⁷	4.4	2.5	0.1	±0.3
SRB-16C	16	21.5	6.1	3	M2.6	1	27,000	0.8	0.4	75	3.1 × 10 ⁻⁷	8.2	2.5	0.15	±0.3
SRB-19C	19.1	23	6.2	3.1	M2.6	1	20,000	1.2	0.6	150	6.4 × 10 ⁻⁷	12	2.5	0.15	±0.3
SRB-22C	22.2	26.5	7.2	3.6	M3	1.7	18,000	2.0	1.0	200	1.4 × 10 ⁻⁶	17.9	2.5	0.15	±0.4
SRB-26C	26.2	31.5	7.5	3.7	M3	1.7	17,000	4	2	340	3.16 × 10 ⁻⁶	29.9	2.5	0.2	±0.4
SRBA-32C	31.8	39	9.4	4.7	M4	3.5	14,000	7.6	3.8	450	8.61 × 10 ⁻⁶	54.9	2.5	0.2	±0.4
SRBB-32C	31.8	44	9.4	4.7	M4	3.5	14,000	7.6	3.8	450	1.0 × 10 ⁻⁵	62.3	2.5	0.2	±0.4
SRBA-39C	39	43	10.7	5.3	M5	8	10,000	14	7	640	2.1 × 10 ⁻⁵	87.8	2.5	0.25	±0.4
SRBB-39C	39	56	12.0	5.5	M5	8	10,000	14	7	640	2.79 × 10 ⁻⁵	117	2.5	0.25	±0.4
SRBA-49C	49	63.5	15.1	7.5	M6	13	10,000	30	15	1,500	8.35 × 10 ⁻⁵	236	2.5	0.25	±0.5
SRBB-49C	49	70	14.5	7.2	M6	13	8,400	30	15	1,500	1.0 × 10 ⁻⁴	258	2.5	0.25	±0.5
SRBA-60C	60	76.2	19	9.4	M8	30	7,000	60	30	2,500	2.17 × 10 ⁻⁴	407	2.5	0.25	±0.5
SRBB-60C	60	88	19	9.4	M8	30	7,000	60	30	2,500	2.58 × 10 ⁻⁴	483	2.5	0.25	±0.5
new SRB-8	7.9	14	3.5	1.7	M2	0.3	50,000	0.2	0.1	16	1.2 × 10 ⁻⁸	1.5	2.5	0.1	±0.2
SRB-12	12.7	18	4.5	2.2	M2.5	0.5	40,000	0.4	0.2	40	1.04 × 10 ⁻⁷	4.4	2.5	0.1	±0.3
SRB-16	16	18.5	4.7	2.3	M3	0.7	30,000	0.8	0.4	75	2.8 × 10 ⁻⁷	7.2	2.5	0.15	±0.3
SRB-19	19.1	22	6.0	2.9	M3	0.7	24,000	1.2	0.6	150	6.4 × 10 ⁻⁷	12	2.5	0.15	±0.3
SRB-22	22.2	25	6.5	3.2	M4	1.7	20,000	2.0	1.0	200	1.4 × 10 ⁻⁶	17.4	2.5	0.15	±0.4
SRB-26	26.2	30	7.7	3.4	M4	1.7	18,000	4	2	340	3.1 × 10 ⁻⁶	29.2	2.5	0.2	±0.4
SRB-32	31.8	39	9.4	4.7	M5	4	18,000	7.6	3.8	450	9.4 × 10 ⁻⁶	56.8	2.5	0.2	±0.4
SRB-39	39	56	16.0	5.9	M5	4	12,000	14	7	640	2.8 × 10 ⁻⁵	124	2.5	0.25	±0.4
SRB-49	49	70	19.8	9.4	M6	7	10,000	30	15	1,500	1.0 × 10 ⁻⁴	280	2.5	0.25	±0.5
SRB-60	60	88	19	9	M8	15	8,500	60	30	2,500	2.67 × 10 ⁻⁴	500	2.5	0.3	±0.5

* Mass and mass moment of inertia are measured with max. bore size ※ One(1) locking bolt is included in SRB-8 products.

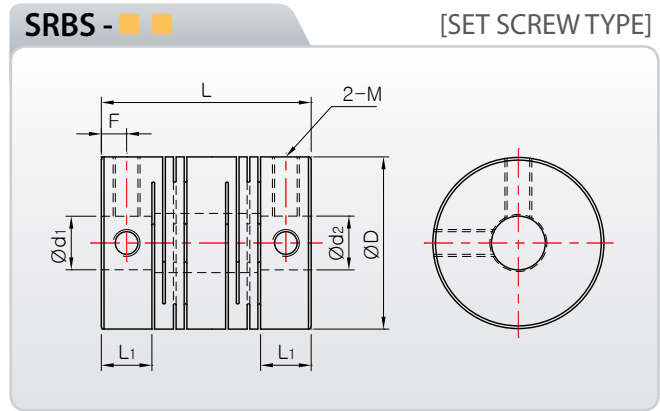
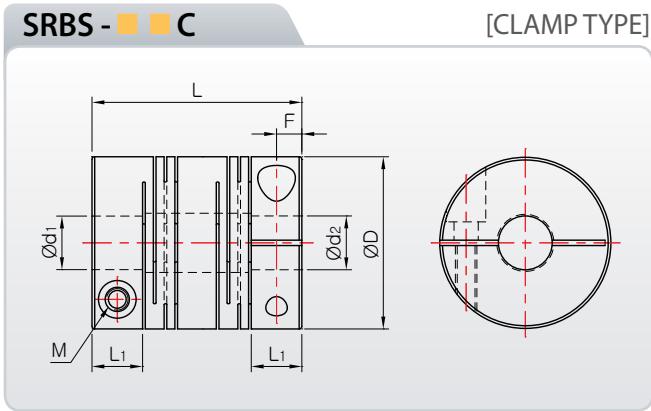
Standard Inner diameter

Product Number	Standard Inner Diameter(d ₁ , d ₂ , unit:mm)																			
	ø 2	ø 3	ø 4	ø 5	ø 6	ø 6.35	ø 8	ø 9.525	ø 10	ø 11	ø 12	ø 14	ø 15	ø 16	ø 18	ø 19	ø 20	ø 22	ø 24	ø 25
SRB-8 □	●	●																		
SRB-12 □		●	●	●																
SRB-16 □		●	●	●	●															
SRB-19 □			●	●	●	●	●													
SRB-22 □				●	●	●	●	●	●											
SRB-26 □				●	●	●	●	●	●	●										
SRB □ -32 □							●	●	●	●	●	●	●							
SRB □ -39 □								●	●	●	●	●	●	●	●	●				
SRB □ -49 □									●	●	●	●	●	●	●	●	●	●		
SRB □ -60 □													●	●	●	●	●	●	●	●

- For the inner diameter, INCH type is available
- Non-standard inner diameter is also available
- Keyway is available
- The recommendation for shaft tolerance is h7.

SRB Series

Radial Beam Flexible Coupling



Dimensions & Performance

※ Material : Stainless Steel

Product Number	Dimension (mm) (±0.3)				Fastening Bolt M	Fastening Torque (N·m)	Max·RPM (min ⁻¹)	Max Torque (N·m)	Rated Torque (N·m)	Torsional Stiffness (N·m/rad)	Moment of Inertia (kg·m ²)	Mass (g)	Permissible Misalignment		
	D	L	L ₁	F									Angle (°)	Parallel (mm)	End-Play (mm)
SRBS-12C	12.7	19	5	2.5	M2	0.5	32,000	0.6	0.3	65	3.0 × 10 ⁻⁷	13	2.5	0.1	±0.3
SRBS-16C	16	21.5	6.1	3	M2.6	1	25,000	1	0.5	85	9.0 × 10 ⁻⁷	26	2.5	0.15	±0.3
SRBS-19C	19.1	23	6.2	3.1	M2.6	1	18,000	1.8	0.9	230	1.7 × 10 ⁻⁶	32	2.5	0.15	±0.3
SRBS-22C	22.2	26.5	7.2	3.6	M3	1.5	15,000	3.2	1.6	290	3.8 × 10 ⁻⁶	43	2.5	0.15	±0.4
SRBS-26C	26.2	31.5	7.5	3.7	M3	1.5	14,000	4.2	2.1	350	8.6 × 10 ⁻⁶	84	2.5	0.2	±0.4
SRBS-32C	31.8	39	9.4	4.7	M4	2.5	12,000	7.6	3.8	840	2.5 × 10 ⁻⁵	160	2.5	0.2	±0.4
SRBAS-39C	39	43	10.7	5.3	M5	4	9,000	16	8	1,200	6.1 × 10 ⁻⁵	280	2.5	0.25	±0.4
SRBBS-39C	39	56	12.0	5.5	M5	4	9,000	16	8	1,000	8.6 × 10 ⁻⁵	360	2.5	0.25	±0.4
SRBAS-49C	49	63.5	15.1	7.5	M6	8	7,000	32	16	1,600	2.7 × 10 ⁻⁴	672	2.5	0.25	±0.5
SRBBS-49C	49	70	14.5	7.2	M6	8	7,000	32	16	1,400	2.8 × 10 ⁻⁴	740	2.5	0.25	±0.5
SRBAS-60C	60	76.2	19	9.4	M8	16	5,000	60	30	2,000	7.2 × 10 ⁻⁴	1,150	2.5	0.25	±0.5
SRBBS-60C	60	88	19	9.4	M8	16	5,000	60	30	1,800	8.6 × 10 ⁻⁴	1,370	2.5	0.25	±0.5
SRBS-12	12.7	18	4.5	2.2	M2.5	0.5	34,000	0.6	0.3	65	3.0 × 10 ⁻⁷	12.4	2.5	0.1	±0.3
SRBS-16	16	18.5	4.7	2.3	M3	0.7	27,000	1	0.5	85	7.7 × 10 ⁻⁷	21	2.5	0.15	±0.3
SRBS-19	19.1	22	5.9	2.9	M3	0.7	20,000	1.8	0.9	230	1.8 × 10 ⁻⁶	34	2.5	0.15	±0.3
SRBS-22	22.2	25	6.5	3.2	M4	1.5	17,000	3.2	1.6	290	3.8 × 10 ⁻⁶	49.5	2.5	0.15	±0.4
SRBS-26	26.2	30	7.7	3.4	M4	1.5	16,000	4.2	2.1	350	8.8 × 10 ⁻⁶	84	2.5	0.2	±0.4
SRBS-32	31.8	39	9.4	4.7	M5	2	14,000	7.6	3.8	840	2.7 × 10 ⁻⁵	160	2.5	0.2	±0.4
SRBS-39	39	56	16.0	5.9	M5	2	10,000	16	8	1,000	8.8 × 10 ⁻⁵	388	2.5	0.25	±0.4
SRBS-49	49	70	19.8	9.4	M6	4	7,000	32	16	1,400	2.8 × 10 ⁻⁴	775	2.5	0.25	±0.5
SRBS-60	60	88	19	9	M8	8	6,000	60	30	1,800	7.6 × 10 ⁻⁴	1,416	2.5	0.3	±0.5

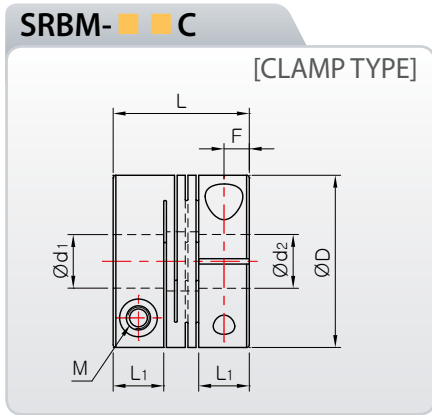
* Please ask for the lead-time of SRB-60 Series * Mass and mass moment of inertia are measured with max. bore size

Standard Inner diameter

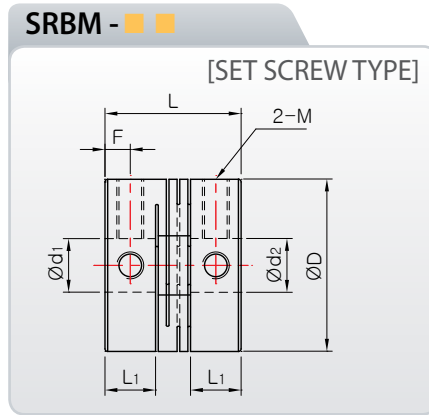
Product Number	Standard Inner Diameter(d ₁ , d ₂ , unit:mm)							
SRBS-12 □	3 × 3	3 × 4	4 × 4	4 × 5	4.5 × 5	5 × 5		
SRBS-16 □	3 × 3 6 × 6	4 × 4	4 × 5	4 × 6	4.5 × 5	4.5 × 6	5 × 5	5 × 6
SRBS-19 □	4 × 4 6.35 × 8	4 × 5 8 × 8	5 × 5	5 × 6	5 × 8	6 × 6	6 × 6.35	6 × 8
SRBS-22 □	5 × 5 8 × 8	5 × 6 8 × 9.525	6 × 6 8 × 10	6 × 6.35 10 × 10	6 × 8	6 × 10	6.35 × 8	6.35 × 10
SRBS-26 □	5 × 5 8 × 9.525	6 × 6 8 × 10	6 × 6.35 10 × 10	6 × 8 10 × 12	6 × 10 12 × 12	6.35 × 8	6.35 × 10	8 × 8
SRBS-32 □	6 × 6 10 × 10	6 × 8 10 × 12	6 × 10 10 × 14	6.35 × 8 12 × 12	8 × 8 12 × 14	8 × 9.525 14 × 14	8 × 10 15 × 15	8 × 12
SRB □ S-39 □	8 × 8	10 × 10	10 × 12	10 × 14	12 × 12	14 × 14	15 × 15	16 × 16
SRB □ S-49 □	12 × 14	14 × 14	14 × 16	15 × 15	16 × 16	18 × 18	20 × 20	
SRB □ S-60 □	15 × 15	16 × 16	18 × 18	20 × 20	22 × 22	24 × 24	25 × 25	

SRB Series Radial Beam Flexible Coupling

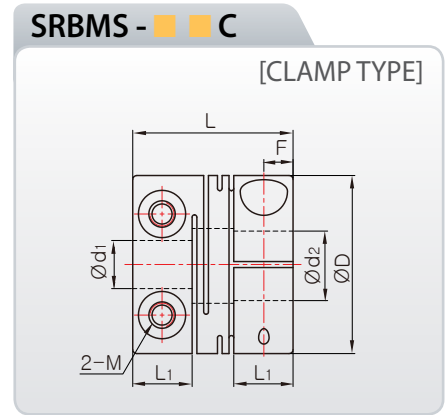
Please, download CAD DATA from www.sungilfa.com



※ Material : High strength aluminum alloy (Al 7075-T6)



※ Material : High strength aluminum alloy (Al 7075-T6)



※ Material : Stainless steel

Dimensions & Performance

Product Number	Dimension (mm) (±0.3)				Fastening Bolt M	Fastening Torque (N·m)	Max-RPM (min ⁻¹)	Max Torque (N·m)	Rated Torque (N·m)	Torsional Stiffness (N·m/rad)	Moment of Inertia (kg·m ²)	Mass (g)	Permissible Misalignment		
	D	L	L ₁	F									Angle (°)	Parallel (mm)	End-Play (mm)
SRBM-12C	12.7	14	5	2.5	M2	0.5	35,000	0.4	0.2	60	7.88×10 ⁻⁸	3.2	1	0	±0.15
SRBM-16C	16	16	6	3.0	M2.6	1	27,000	0.8	0.4	130	2.3×10 ⁻⁷	6.3	1	0	±0.15
SRBM-19C	19.1	17	6.3	3.1	M2.6	1	20,000	1.2	0.6	160	5.0×10 ⁻⁷	9.2	1	0	±0.15
SRBM-22C	22.2	20	7.4	3.7	M3	1.7	18,000	2.0	1.0	180	1.1×10 ⁻⁶	15	1	0	±0.15
SRBM-26C	26.2	23	8.4	4.1	M3	1.7	17,000	4.0	2.0	480	2.5×10 ⁻⁶	25	1	0	±0.15
SRBM-32C	31.8	30	11	5.4	M4	3.5	14,000	7.6	3.8	780	6.84×10 ⁻⁶	44	1	0	±0.15
SRBMS-12C	12.7	14	5	2.5	M2	0.5	20,000	0.6	0.3	120	2.4×10 ⁻⁷	10	1	0	±0.15
SRBMS-16C	16	16	6	3.0	M2.6	1	20,000	1.0	0.5	240	7.0×10 ⁻⁷	20	1	0	±0.15
SRBMS-19C	19.1	17	6.3	3.1	M2.6	1	19,000	1.8	0.9	300	1.5×10 ⁻⁶	32	1	0	±0.15
SRBMS-22C	22.2	20	7.4	3.7	M3	1.5	17,000	3.2	1.6	350	3.1×10 ⁻⁶	42	1	0	±0.15
SRBMS-26C	26.2	23	8.4	4.1	M3	1.5	15,000	4.2	2.1	720	7.2×10 ⁻⁶	70	1	0	±0.15
SRBMS-32C	31.8	30	11	5.4	M4	2.5	10,000	7.6	3.8	1,300	2.0×10 ⁻⁵	140	1	0	±0.15
SRBM-12	12.7	13	4.5	2.2	M2.5	0.5	40,000	0.4	0.2	60	7.89×10 ⁻⁸	3.2	1	0	±0.15
SRBM-16	16	14	5.0	2.4	M3	0.7	30,000	0.8	0.4	130	2.15×10 ⁻⁷	5.8	1	0	±0.15
SRBM-19	19.1	17	6.3	3.1	M3	0.7	24,000	1.2	0.6	160	5.34×10 ⁻⁷	10	1	0	±0.15
SRBM-22	22.2	19	6.9	3.3	M4	1.7	20,000	2.0	1.0	180	1.1×10 ⁻⁶	14	1	0	±0.15
SRBM-26	26.2	22	7.9	3.8	M4	1.7	18,000	4.0	2.0	480	2.5×10 ⁻⁶	25	1	0	±0.15
SRBM-32	31.8	29	10.5	5.1	M5	4	16,000	7.6	3.8	780	6.94×10 ⁻⁶	44.9	1	0	±0.15

* Mass and mass moment of inertia are measured with max. bore size

Standard Inner diameter

Product Number	Standard Inner Diameter(d ₁ , d ₂ , unit:mm)												
	ø 2	ø 3	ø 4	ø 5	ø 6	ø 6.35	ø 8	ø 9.525	ø 10	ø 11	ø 12	ø 14	ø 15
SRBM(S)-12□		●	●	●									
SRBM(S)-16□		●	●	●	●								
SRBM(S)-19□			●	●	●	●	●						
SRBM(S)-22□				●	●	●	●	●	●				
SRBM(S)-26□				●	●	●	●	●	●	●	●		
SRBM(S)-32□					●	●	●	●	●	●	●	●	●

- For the inner diameter, INCH type is available
- Non-standard inner diameter is also available
- Keyway is available
- The recommendation for shaft tolerance is h7.