SRB Series

Radial Beam Flexible Coupling

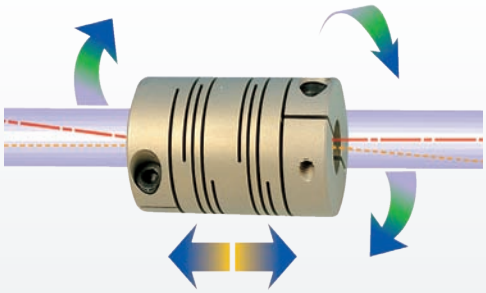
'SI. CO' mark(Trademark : 40-2012-0061376)indicates that the authenticity is certified.
'SRB' (Trademark : 40-2012-0044883) is the original trademark for SUNGIL's Radial Beam Coupling.

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

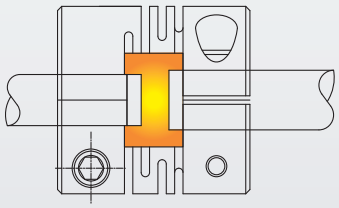
Features

RoHS COMPLIANT REACH The new EU chemicals legislation

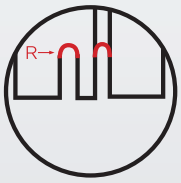
- Zero Backlash
- Body material: Al 7075-T6(High strength aluminum alloy), Stainless steel
- High Torsional Stiffness, High Permissible Torque
- Precise concentricity
- Stability in high rotational speed
- Low moment of Inertia
- Excellent durability of oil and chemical resistance.



※ 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 Sungil 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 Sungil(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		-

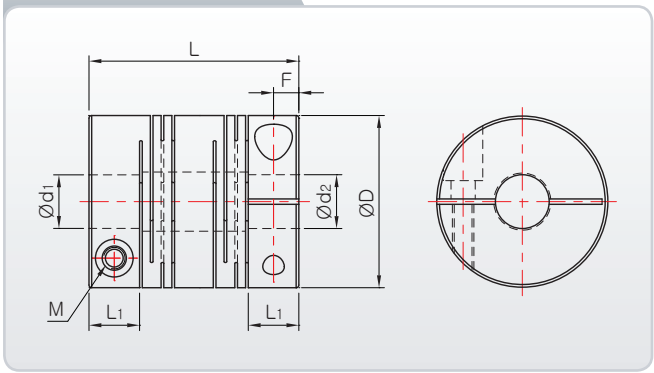
How to order product

※ Please mark each inner diameter size.

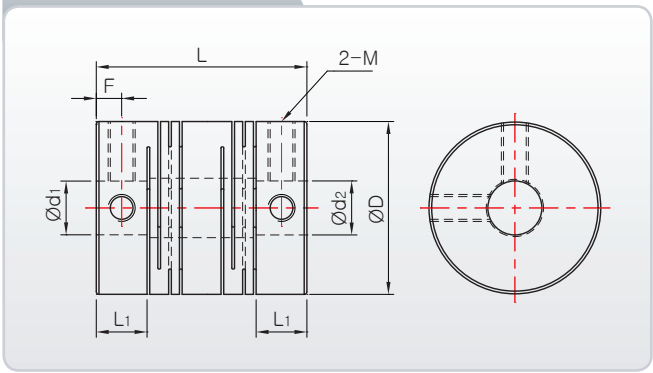
SRB Series
Radial Beam Flexible Coupling

Please, download CAD DATA from www.sungilfa.com

SRB ■ - ■ ■ C [CLAMP TYPE]



SRB - ■ ■ [SET SCREW TYPE]



Dimensions & Performance

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

Product Number	Dimension (±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 ($kg \cdot m^2$)	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	6.05	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	6.16	3.05	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	7.15	3.55	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	7.48	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	4.65	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	4.65	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	10.74	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	12.04	5.45	M5	8	10,000	14	7	640	2.79×10^{-5}	117	2.5	0.25	±0.4
SRBA-49C	49	63.5	15.05	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	9.35	M8	30	7,000	60	30	2,500	2.17×10^{-4}	407	2.5	0.25	±0.5
SRBB-60C	60	88	19	9.35	M8	30	7,000	60	30	2,500	2.58×10^{-4}	483	2.5	0.25	±0.5
SRB-12	12.7	18	4.5	2.15	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	5.96	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	7.73	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	16.04	5.9	M5	4	12,000	14	7	640	2.8×10^{-5}	124	2.5	0.25	±0.4
SRB-49	49	70	19.75	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

Standard Inner diameter

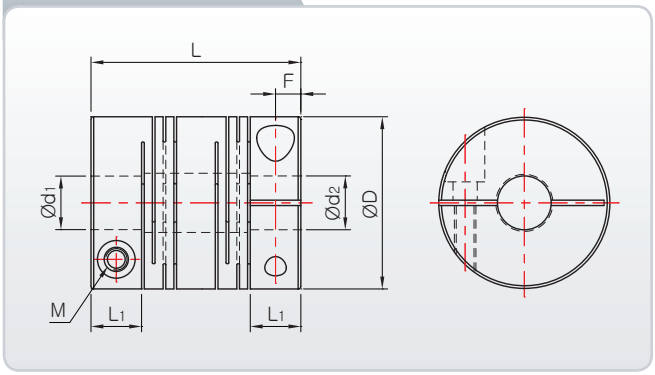
Product Number	Standard Inner Diameter(d_1, d_2, unit:mm)																		
	ø2	ø3	ø4	ø5	ø6	ø6.35	ø8	ø9.525	ø10	ø11	ø12	ø14	ø15	ø16	ø18	ø19	ø20	ø22	ø24	ø25
SRB-12□		●	●	●																
SRB-16□		●	●	●	●															
SRB-19□			●	●	●	●	●													
SRB-22□				●	●	●	●	●	●											
SRB-26□				●	●	●	●	●	●	●	●									
SRB□-32□							●	●	●	●	●	●	●							
SRB□-39□									●	●	●	●	●	●	●	●				
SRB□-49□											●	●	●	●	●	●	●			
SRB□-60□													●	●	●	●	●	●	●	●

■ For the inner diameter, INCH type is available
■ Nonstandard inner diameter is also available
■ Keyway is available
■ The recommendation for shaft tolerance is h7.

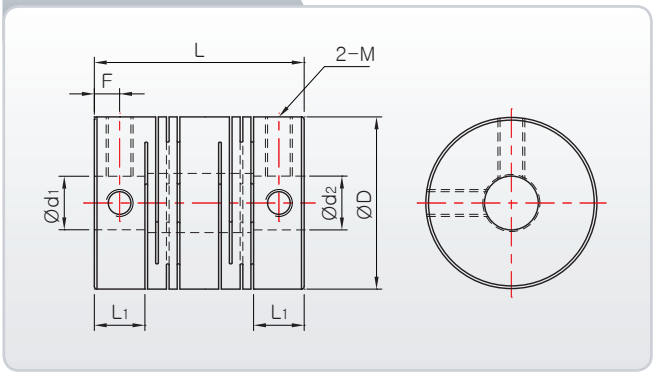
SRB Series

Radial Beam Flexible Coupling

SRBS - ■ ■ C [CLAMP TYPE]



SRBS - ■ ■ [SET SCREW TYPE]



Dimensions & Performance

※ Material : Stainless Steel

Product Number	Dimension (±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	6.05	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	6.16	3.05	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	7.15	3.55	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	7.48	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	4.65	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	10.74	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	12.04	5.45	M5	4	9,000	16	8	1,000	8.6×10^{-5}	360	2.5	0.25	±0.4
SRBAS-49C	49	63.5	15.05	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	9.35	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	9.35	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	2.15	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	5.94	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	7.73	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	16.04	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	19.75	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 check inventory and delivery for SRB-60 series * Mass and mass moment of inertia are measured with max. bore size

Standard Inner diameter

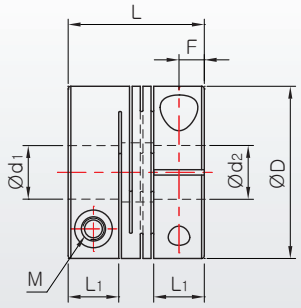
Product Number	Standard Inner Diameter(d_1, d_2, unit:mm)							
SRBS-12□	3×3	3×4	4×4	4×5	4.5×5	5×5		
SRBS-16□	3×3	4×4	4×5	4×6	4.5×5	4.5×6	5×5	5×6
	6×6							
SRBS-19□	4×4	4×5	5×5	5×6	5×8	6×6	6×6.35	6×8
	6.35×8	8×8						
SRBS-22□	5×5	5×6	6×6	6×6.35	6×8	6×10	6.35×8	6.35×10
	8×8	8×9.525	8×10	10×10				
SRBS-26□	5×5	6×6	6×6.35	6×8	6×10	6.35×8	6.35×10	8×8
	8×9.525	8×10	10×10	10×12	12×12			
SRBS-32□	6×6	6×8	6×10	6.35×8	8×8	8×9.525	8×10	8×12
	10×10	10×12	10×14	12×12	12×14	14×14	15×15	
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

SRBM-■■C

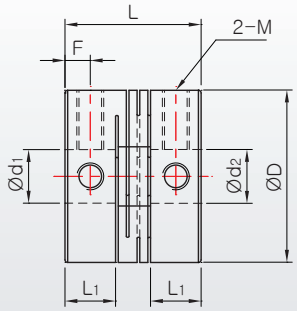
[CLAMP TYPE]



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

SRBM -■■

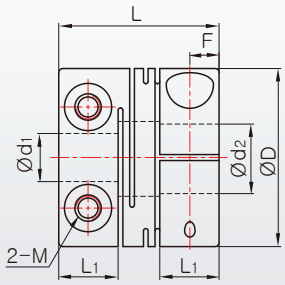
[SET SCREW TYPE]



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

SRBMS -■■C

[SET SCREW TYPE]



※ Material : Stainless steel

Dimensions & Performance

Product Number	Dimension (±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 ($kg \cdot m^2$)	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	2.95	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	6.31	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	3.65	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	2.95	M2.6	1	20,000	1.0	0.5	240	7.0×10^{-7}	20	1	0	±0.15
SRBMS-19C	19.1	17	6.31	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	3.65	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	6.31	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)												
	ø2	ø3	ø4	ø5	ø6	ø6.35	ø8	ø9.525	ø10	ø11	ø12	ø14	ø15
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
■ Nonstandard inner diameter is also available
■ Keyway is available
■ The recommendation for shaft tolerance is h7.