

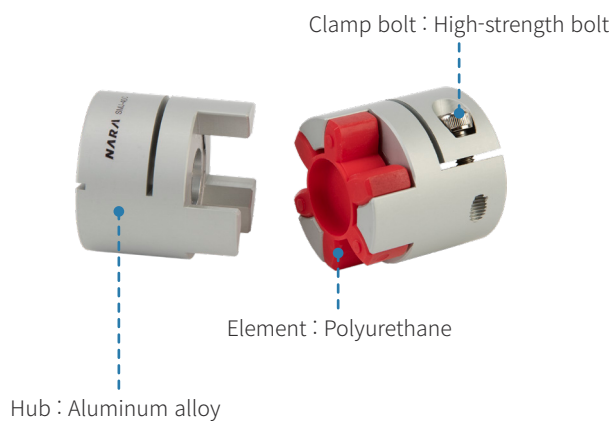
SMJ Flexible Jaw Type Coupling

Features



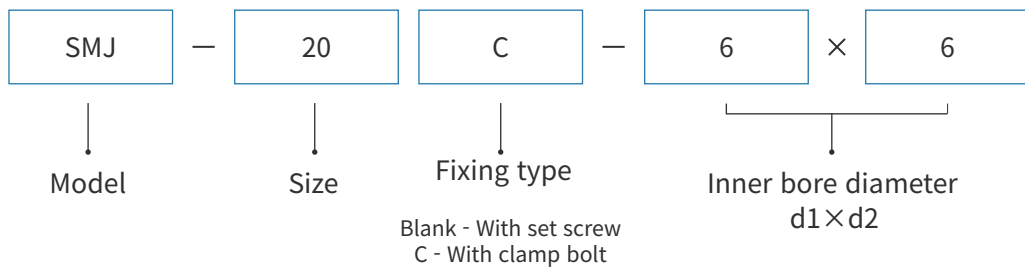
- A simple structure in which an element is fitted between two hubs.
- Zero backlash due to preliminary pressure applied to the element.
- Excellent flexibility and absorption of parallel misalignment, angular misalignment and torsional vibration.
- Characteristics of forward and reverse rotation are identical.
- It has electrical insulation characteristic.

Structure



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How to order



Standard bores diameter

Model	Standard bores diameter d1×d2(mm)																								
	4	5	6	6.35	7	8	9	10	11	12	14	15	16	18	19	20	24	25	28	30	32	35	40	45	
SMJ-20/20C	●	●	●	●	●	●																			
SMJ-25/25C		●	●	●	●	●	○	●																	
SMJ-30/30C			●	●	●	●	●	●	●	●	●														
SMJ-40/40C							○	○	●	○	●	●	●	●	●	●	●								
SMJ-55/55C									○	○	●	●	●	●	●	●	●	●	●	●	●				
SMJ-65/65C												●	●	●	●	●	●	●	●	●	●	○	○		
SMJ-80/80C																	●	●	●	●	●	●	●	●	●

※ Standard type is always available in stock.

Allowable Transmission torque(Tc) for fixing with clamp bolt

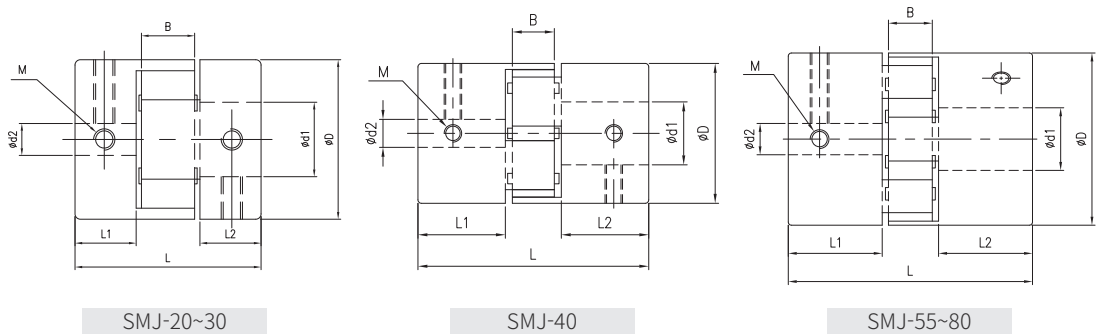
Model	Standard bores diameter d1×d2(mm) and Allowable Transmission torque (Nm)																									
	4	5	6	6.35	7	8	9	10	11	12	14	15	16	18	19	20	24	25	28	30	32	35	40	45		
SMJ-20C	1.8	2.3	2.8	2.8	3	3.4																				
SMJ-25C		3.5	4.1	4.1	4.4	4.9	5.3	5.7																		
SMJ-30C			8.5	8.5	9.1	9.8	10	11	12	12	13															
SMJ-40C							18	19	21	22	23	25	26	27	28	29	30									
SMJ-55C									47	48	50	54	56	58	61	62	63	69	70	74						
SMJ-65C												92	95	98	103	105	107	117	119	126	130	134	140			
SMJ-80C																	111	114	126	129	136	141	145	152	163	173

Note)

1. Shaft tolerances are based on h7, transmitted torque may be decreased in case of small shaft size.
2. According to operating condition(Fixing type, Acc./Dec. Frequency, Temperature), Transmission Torque may be decreased, Therefore it is recommended to apply after testing with actual mounting to the devices.

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Specifications/ Dimensions



※ Specifications and Dimensions in the Catalog might be modified without any notice for performance improvement, Contact NARA before using the couplings.

Specifications(SMJ)

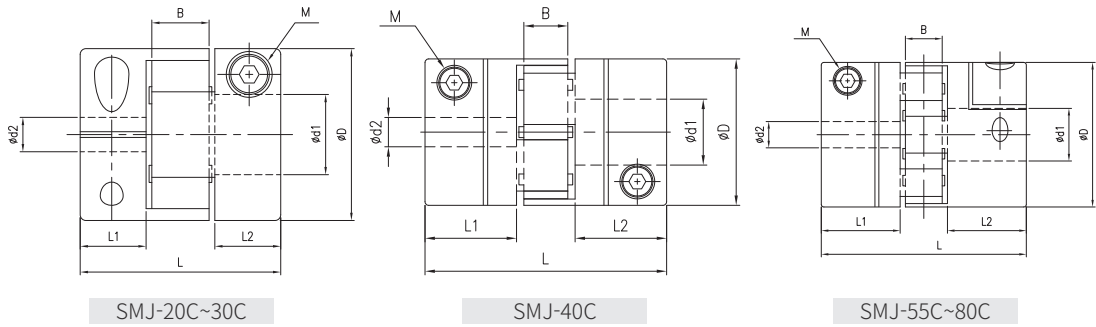
Model	Rated Torque (Nm)	Max Torque (Nm)	Max speed (rpm)	Torsional stiffness (Nm/rad)	Moment of inertia (kg m ²)	Maximum allowable misalignment			Mass (g)
						Parallel misalignment (mm)	Angular misalignment (°)	Axial displacement (mm)	
SMJ-20	5	10	10,000	29	1.0×10^{-6}	0.1	1	±0.8	18
SMJ-25	9	18	10,000	45	2.4×10^{-6}	0.1	1	±1.0	25
SMJ-30	10	20	10,000	73	5.9×10^{-6}	0.1	1	±1.0	46
SMJ-40	15	30	8,000	570	3.1×10^{-5}	0.1	1	±1.2	125
SMJ-55	60	120	7,000	1,600	1.7×10^{-4}	0.1	1	±1.4	350
SMJ-65	160	320	5,900	3,000	3.9×10^{-4}	0.1	1	±1.5	570
SMJ-80	320	640	4,500	6,500	1.1×10^{-3}	0.1	1	±1.8	1,150

Dimensions(SMJ)

Model	D	L	Inner bore		L1, L2	B	M	bolt tightening torque (Nm)
			d1	d2				
SMJ-20	20	30	4~8	4~8	10	8	M3	0.7
SMJ-25	25	32	5~10	5~10	10	9	M4	1.7
SMJ-30	30	35	6~14	6~14	11.5	10	M4	1.7
SMJ-40	40	66	8~20	8~20	25	12	M5	3.6
SMJ-55	55	78	10~28	10~28	30	14	M6	7
SMJ-65	65	90	14~35	14~35	35	15	M8	15
SMJ-80	80	114	19~45	19~45	45	18	M8	15

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Specifications/ Dimensions



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Specifications(SMJ-C)

Model	Rated Torque (Nm)	Max Torque (Nm)	Max speed (rpm)	Torsional stiffness (Nm/rad)	Moment of inertia (kg m ²)	Maximum allowable misalignment			Mass (g)
						Parallel misalignment (mm)	Angular misalignment (°)	Axial displacement (mm)	
SMJ-20C	5	10	10,000	29	1.1×10 ⁻⁶	0.1	1	±0.8	19
SMJ-25C	9	18	10,000	45	2.4×10 ⁻⁶	0.1	1	±1.0	25
SMJ-30C	10	20	10,000	73	6.2×10 ⁻⁶	0.1	1	±1.0	50
SMJ-40C	15	30	8,000	570	3.1×10 ⁻⁵	0.1	1	±1.2	135
SMJ-55C	60	120	7,000	1,600	1.6×10 ⁻⁴	0.1	1	±1.4	330
SMJ-65C	160	320	5,900	3,000	3.8×10 ⁻⁴	0.1	1	±1.5	560
SMJ-80C	320	640	4,500	6,500	1.0×10 ⁻³	0.1	1	±1.8	1,050

Dimensions(SMJ-C)

Model	D	L	Inner bore		L1, L2	B	M	bolt tightening torque (Nm)
			d1	d2				
SMJ-20C	20	30	4~8	4~8	10	8	M2.5	1
SMJ-25C	25	32	5~10	5~10	10	9	M3	1.5
SMJ-30C	30	35	6~14	6~14	11.5	10	M4	3.4
SMJ-40C	40	66	8~20	8~20	25	12	M5	7
SMJ-55C	55	78	10~28	10~28	30	14	M6	14
SMJ-65C	65	90	14~35	14~35	35	15	M8	30
SMJ-80C	80	114	19~45	19~45	45	18	M8	30