

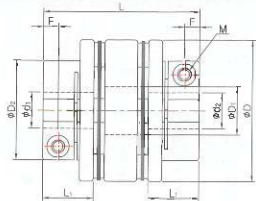
SD SERIES (SDW)

Double Disk Type Coupling (High Strength Aluminum Alloy Body)

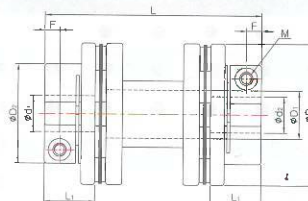
Side-clamp

Flange-shaped (Low-inertia)

General Type



Lengthy Middle Body Type



Dimensions / Performance - General Type

Model	Size ($\pm 0.3\text{mm}$)						Screw		Rated Torque (N·m)	Max. Torque (N·m)	Max. rpm (min^{-1})	Moment of Inertia ($\text{kg}\cdot\text{m}^2$)	Static Torsional Stiffness (N·m/rad)	Mass (g)	Permissible Misalignment		
	D	D ₁	D ₂	L	L ₁	F	Size	Fastening Torque (N·m)							Angular (°)	Parallel (mm)	End-play (mm)
SDWB-35C	35	16.2	21.5	34.6	12.7	4.4	M3	1.7	4	8	8,500	6.1×10^{-6}	1,500	44	1.5	0.16	± 0.4
SDWD-35C	35	16.2	21.5	38.1	12.7	4.4	M3	1.7	4	8	8,500	8.2×10^{-6}	1,500	55	1.5	0.16	± 0.4
SDWA-42C	42.5	18	29.3	39.7	13.4	3.8	M3	1.7	7	14	8,000	2.1×10^{-5}	2,000	84	1.5	0.18	± 0.5
SDWB-42C	42.5	18	29.3	44.2	13.4	3.8	M3	1.7	7	14	8,000	2.4×10^{-5}	2,000	94	1.5	0.18	± 0.5
SDWA-47C	47	20.4	33/*38	45.6	16.7	5	M4	3.5	12	24	7,500	3.6×10^{-5}	4,000	120	1.5	0.2	± 0.5
SDWB-47C	47	20.4	33/*38	51.4	16.7	5	M4	3.5	12	24	7,500	3.9×10^{-5}	4,000	132	1.5	0.2	± 0.5
SDWA-54C	54	25	38.5	60.6	21.4	6.1	M5	8	22	44	7,500	7.2×10^{-5}	7,000	192	1.5	0.2	± 0.5
SDWA-64C	64	25.8	48	74.4	26	7.5	M6	13	31	62	6,500	2.2×10^{-4}	11,000	373	1.5	0.3	± 0.5

- The Moment of Inertia and Mass values are based on products with max. Inner diameter.
- Max. torque/rated torque is the value regarding to a coupling's self-durability and is not related to slip-torque between the coupling bore and the shaft.
- Please refer to * marked value for D2 of OD 47 products when ID is over 18mm.

Dimensions / Performance - Lengthy Middle Body Type

Model	Size ($\pm 0.3\text{mm}$)						Screw		Rated Torque (N·m)	Max. Torque (N·m)	Max. rpm (min^{-1})	Moment of Inertia ($\text{kg}\cdot\text{m}^2$)	Static Torsional Stiffness (N·m/rad)	Mass (g)	Permissible Misalignment		
	D	D ₁	D ₂	L	L ₁	F	Size	Fastening Torque (N·m)							Angular (°)	Parallel (mm)	End-play (mm)
SDAA-42C	42.5	18	29.3	50	13.4	3.8	M3	1.7	7	14	8,000	2.7×10^{-5}	2,000	105	1.5	0.18	± 0.5
SDAB-42C	42.5	18	29.3	57.9	13.4	3.8	M3	1.7	7	14	8,000	2.8×10^{-5}	2,000	110	1.5	0.18	± 0.5
SDAC-42C	42.5	18	29.3	67.3	13.4	3.8	M3	1.7	7	14	8,000	2.9×10^{-5}	2,000	115	1.5	0.18	± 0.5
SDAA-47C	47	20	33/*38	63.8	16.7	5	M4	3.5	12	24	7,500	4.5×10^{-5}	4,000	152	1.5	0.2	± 0.5
SDAB-47C	47	20	33/*38	90.7	16.7	5	M4	3.5	12	24	7,500	5.1×10^{-5}	4,000	172	1.5	0.2	± 0.5
SDAA-54C	54	24.3	38.5	76	21.4	6.1	M5	8	22	44	7,500	9.0×10^{-5}	7,000	240	1.5	0.2	± 0.5
SDAB-54C	54	24.3	38.5	89.9	21.4	6.1	M5	8	22	44	7,500	1.1×10^{-4}	7,000	266	1.5	0.2	± 0.5
SDA-64C	64	25.8	48	89.9	26	7.5	M6	13	31	62	6,500	2.7×10^{-4}	11,000	450	1.5	0.3	± 0.5

- The Moment of Inertia and Mass values are based on products with max. Inner diameter.
- Non-standard lengthy middle body type can be customized.
- Max. torque/rated torque is the value regarding to a coupling's self-durability and is not related to slip-torque between the coupling bore and the shaft.
- Please refer to * marked value for D2 of OD 47 products when ID is over 18mm.

SD SERIES (SDW)

Double Disk Type Coupling (High Strength Aluminum Alloy Body)

Standard Inner Diameter (ID)

Model	Standard Inner Diameter (d ₁ , d ₂) (mm)																					
	5	6	6.35	7	8	9	9.525	10	11	12	12.7	14	15	15.875	16	17	18	19	20	22	24	25
SD□□-35C	●	●	●	●	●	●	●	●														
SD□□-42C		●	●	●	●	●	●	●	●	●	●	●	●									
SD□□-47C					●	●	●	●	●	●	●	●	●	●	●	●	●	●				
SD□□-54C								●	●	●	●	●	●	●	●	●	●	●	●	●		
SD□□-64C										●	●	●	●	●	●	●	●	●	●	●	●	●★

- The recommended shaft tolerance is h7.
- Custom process (e.g. non-standard Inner diameter, special tolerance etc.) is also available upon a special request in prior to order placement.
- Keyway is available. (Optional)
- Due to interference of the middle parts, make sure the shaft is only inserted into L₁ depth for IDs with ★ mark.

Slip Torque

- The below table shows the actual permissible torque values when the slip torque value is lower than the coupling's max. torque value.
- If the slip torque value is lower than the coupling's max. torque value, please check and compare between the slip torque in the below table and the operating torque value of the connected motor. It is safer to size up the coupling or use a key/keyway when the slip torque value is lower than the motor's operational torque.
- The below slip torque values may be subject to change according to different testing conditions. (e.g. shaft tolerance, Surface roughness, or acceleration/deceleration of driving shafts). On the other hand, the values could be affected when different kind of fastening screw is used. Therefore, we recommend you test under the same conditions before mounting.

Model	Max. Torque (N.m)	Slip Torque (N.m) by Inner Diameter (d ₁ , d ₂)																			
		5	6	6.35	7	8	9	9.525	10	11	12	12.7	14	15	15.875	16	17	18	19	20	21
SD□□-35C	8	3.2	3.5	3.8	6	7															
SD□□-42C	14		4	4.5	5	6.4	7	7	7.5	8	10.4	11	12								
SD□□-47C	24					4.9	6	7	7.8	8.4	11.3	12.2	13.9	17.6	19	22					
SD□□-54C	44								20	25	30	32	35	38	40						
SD□□-64C	62										36	37	41	42	42	43	44	50	52	58	60