

SD SERIES (SDW)

* قطعات موجود در انبار بقیه سایزها به زودی

Double Disk Type Coupling (High Strength Aluminum Alloy Body)

Side-clamp

Cylinder-shaped

General Type

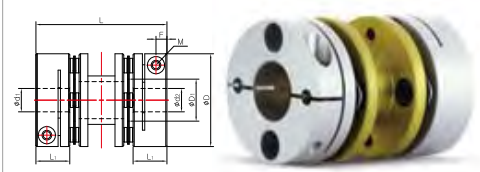


Size: 12C~47C



Size: 54C~100C

Lengthy Middle Body Type



Dimensions / Performance General Type

Model	Size (±0.3mm)						Screw		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			Side-clamp Hub Split (W)
	D	D ₁	L	L ₁	L ₃	F	Size	Fastening Torque (N·m)							Angular (°)	Parallel (mm)	End-play (mm)	
SDWA-12C	12	5.5	15.7	5.9	-	1.9	M1.6	0.25	0.2	0.4	14,000	7.5×10 ⁻⁸	85	4	1	0.03	±0.08	X
SDWA-16C	16	6.3	21.2	7.8	-	2.5	M2	0.5	0.5	1	14,000	3.3×10 ⁻⁷	200	9	1	0.05	±0.2	X
SDWB-16C	16	6.3	23.2	7.8	-	2.5	M2	0.5	0.5	1	14,000	3.7×10 ⁻⁷	200	10	1	0.05	±0.2	X
SDWA-19C	19	8.4	23.3	8.7	-	2.9	M2.6	1	0.9	1.8	14,000	7.4×10 ⁻⁷	300	14	1	0.05	±0.2	X
SDWB-19C	19	8.4	26.3	8.7	-	2.9	M2.6	1	0.9	1.8	14,000	7.9×10 ⁻⁷	300	15	1	0.05	±0.2	X
SDWA-22C	22.2	9	25	8.7	-	2.8	M2.6	1	1.1	2.2	10,000	1.3×10 ⁻⁶	400	18	1.5	0.12	±0.2	X
* SDWB-22C	22.2	9	27.2	8.7	-	2.8	M2.6	1	1.1	2.2	10,000	1.4×10 ⁻⁶	400	19	1.5	0.12	±0.2	X
SDWA-26C	26.6	12.2	32.5	10.6	-	3.4	M3	1.7	1.5	3	10,000	3.4×10 ⁻⁶	600	34	1.5	0.15	±0.3	X
SDWA-31C	31.8	14.4	33.5	11.6	-	3.7	M3	1.7	3	6	9,000	7.5×10 ⁻⁶	1,300	52	1.5	0.15	±0.4	X
* SDWB-31C	31.8	14.4	38.5	11.6	-	3.7	M3	1.7	3	6	9,000	8.8×10 ⁻⁶	1,300	60	1.5	0.15	±0.4	X
SDWA-35C	35	16.2	34.6	12.7	-	4.4	M4	3.5	4	8	8,500	1.2×10 ⁻⁵	1,500	67	1.5	0.16	±0.4	X
SDWC-35C	35	16.2	38.1	12.7	-	4.4	M4	3.5	4	8	8,500	1.4×10 ⁻⁵	1,500	75	1.5	0.16	±0.4	X
SDWA-39C	39	17	39.5	13.7	-	4.3	M4	3.5	5	10	8,000	2.1×10 ⁻⁵	1,800	95	1.5	0.18	±0.4	X
SDWC-39C	39	17	45	13.7	-	4.3	M4	3.5	5	10	8,000	2.4×10 ⁻⁵	1,800	110	1.5	0.18	±0.4	X
SDWC-42C	42.5	18	46.2	13.7	-	4.3	M4	3.5	7	14	8,000	3.3×10 ⁻⁵	2,000	120	1.5	0.18	±0.5	X
SDWC-47C	47	20.5	50	16	-	5.2	M4	3.5	12	24	7,500	5.5×10 ⁻⁵	4,000	160	1.5	0.2	±0.5	X
* SDWB-54C	54	25	52.6	19	13	6.3	M5	8	22	44	7,500	1.1×10 ⁻⁴	7,000	250	1.5	0.2	±0.5	○
SDWC-54C	54	25	58.6	19	13	6.3	M5	8	22	44	7,500	1.2×10 ⁻⁴	7,000	280	1.5	0.2	±0.5	○
SDWB-64C	64	25.8	74.4	26	15.2	7.5	M6	13	31	62	6,500	3.5×10 ⁻⁴	11,000	455	1.5	0.3	±0.5	○
SDWC-64C	64	25.8	84.4	26	15.2	7.5	M6	13	31	62	6,500	4.8×10 ⁻⁴	11,000	530	1.5	0.3	±0.5	○
SDW-80C	80	35.8	81.8	29.7	19	9.4	M8	30	75	150	6,000	8.4×10 ⁻⁴	20,000	900	2	0.4	±0.6	○
SDWC-80C	80	35.8	98.3	29.7	19	9.4	M8	30	75	150	6,000	9.5×10 ⁻⁴	20,000	1,000	2	0.5	±0.6	○
* SDW-90C	94.5	41.6	98.9	30.4	19	9.3	M8	30	150	300	6,000	1.8×10 ⁻³	35,000	1,350	2	0.4	±0.8	○
SDW-100C	104.5	47.7	103.8	30.7	19	9.3	M8	30	220	440	6,000	2.9×10 ⁻³	50,000	1,700	2	0.4	±0.8	○

- 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.

Dimensions / Performance Lengthy Middle Body Type

Model	Size (±0.3mm)					Screw		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			Side-clamp Hub Split (W)
	D	D ₁	L	L ₁	F	Size	Fastening Torque (N·m)							Angular (°)	Parallel (mm)	End-play (mm)	
SDA-22C	22.2	8.3	33.2	8.7	2.8	M2.6	1	1.1	2.2	10,000	1.5×10 ⁻⁶	400	20	1.5	0.12	±0.2	X
SDA-26C	26.6	10.5	38.2	10.6	3.4	M3	1.7	1.5	3	10,000	3.9×10 ⁻⁶	600	39	1.5	0.15	±0.3	X
SDA-31C	31.8	12.7	44.9	11.6	3.7	M3	1.7	3	6	9,000	8.8×10 ⁻⁶	1,300	60	1.5	0.15	±0.4	X
SDA-39C	39	15.3	56.5	13.7	4.3	M4	3.5	5	10	8,000	3.0×10 ⁻⁵	1,800	120	1.5	0.18	±0.4	X

- 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.



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Double Disk Type Coupling (High Strength Aluminum Alloy Body)

Standard Inner Diameter (ID) - 12C ~ 47C

Model	Standard Inner Diameter (d_1, d_2) (mm)																							
	3	4	4.5	5	6	6.35	7	8	9	9.525	10	11	12	12.7	14	15	15.875	16	17	18	19	20		
SD□□-12C	●	●		●																				
SD□□-16C	●	●	●	●																				
SD□□-19C	●	●	●	●	●																			
SD□□-22C	●	●	●	●	●	●	●	●	●★	●★														
SD□□-26C		●	●	●	●	●	●	●	●	●	●													
SD□□-31C				●	●	●	●	●	●	●	●	●	●	●	●	●★								
SD□□-35C				●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●					
SD□□-39C				●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●					
SD□□-42C					●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●★	●★		
SD□□-47C								●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

- 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 L_1 depth for IDs with ★ mark.

Standard Inner Diameter (ID) - 54C ~ 100C

Model	Standard Inner Diameter (d_1, d_2) (mm)																							
	10	11	12	12.7	14	15	15.875	16	17	18	19	20	22	24	25	26	28	30	32	35	40	45	50	
SD□□-54C	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●									
SD□□-64C			●	●	●	●	●	●	●	●	●	●	●	●	●	●★	●★	●★	●★					
SD□□80C						●	●	●	●	●	●	●	●	●	●	●	●	●	●	●				
SD□□-90C												●	●	●	●	●	●	●	●	●	●	●	●★	
SD□□-100C												●	●	●	●	●	●	●	●	●	●	●	●	●★

- 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 L_1 depth for IDs with ★ mark.
- Side-clamp Hub Split is available (Optional)



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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 operating 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 a different kind of fastening screw is used (body material or surface treatment). 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)																	
		3	4	4.5	5	6	6.35	7	8	9	9.525	10	11	12	12.7	14	15	15.875	16
SD□□-16C	1	0.6	0.7	0.8	0.9														
SD□□-19C	1.8	1	1.3	1.4	1.5	1.7													
SD□□-22C	2.2	1.1	1.4	1.5	1.7	2	2.1												
SD□□-26C	3		2	2	2.9														
SD□□-31C	6				3	3.3	3.9	4.6	5.6										
SD□□-35C	8				3.2	3.5	3.8	6	7										
SD□□-39C	10				4	4.5	5	6.5	8	9									
SD□□-42C	14					4.5	5.5	8	10	11	11	12	12.5						
SD□□-47C	24								9	10	11	12	12.5	13.6	14	17.6	22	22	23.6

Model	Max. Torque (N.m)	Slip Torque (N.m) by Inner Diameter (d ₁ , d ₂)																			
		10	11	12	12.7	14	15	16	18	19	20	22	24	25	28	30	32	35	40	45	50
SD□□-54C	44	25	27	30	34	42															
SD□□-64C	62			36	38	45	50	55	60												
SD□□-80C	150						80	85	101	109	128	149									
SD□□-90C	300										128	135	150	160	180	200	210	220	230	240	
SD□□-100C	440										136	140	144	152	180	185	192	216	230	240	250

Side-clamp Hub Split(W) Option is available

- From certain outer diameter(OD) sizes, we can provide Side-clamp Hub Split products.
- Please refer to "HOW TO ORDER" page for more details.

