

DC – SC Type

Disc Couplings
Clamping Screw Single
Disc Type

The DC Series utilizes a metal laminated plate spring design that eliminates moving contact surfaces, significantly reducing wear and enhancing durability. Constructed with high-rigidity aluminum hubs, these couplings minimize inertia while delivering zero backlash and superior rigidity. For safe operation, ensure the rated speed and torque capacities are not exceeded.



Ordering Instructions

- Please specify the series, outer diameter, and bore size when placing your order.
- If keyway machining (on the bore) is required, ensure to indicate this separately.
- For assistance in selecting the right couplings, please contact our customer service center.

DC

series

32

Specifications
(Outer diameter)

SC

Type
(Shape)

-

10

Bore diameter
(d1)

-

15

Bore diameter
(d2)

LK3 – RK5

Keyway
(Side d1) Keyway
(Side d2)

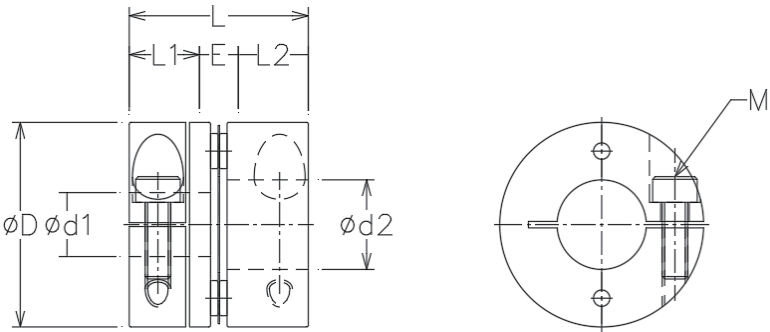
For keyway machining

Standard Bore Diameter

※ Bore machining is available within the product's minimum to maximum bore range beyond the standard bore sizes. (Refer to the figures on the right)

Standard bore diameter (d1/d2, mm)	3	4	5	6	6.35	8	10	12	14	15	16	18	19	20	22	24	25	28	30	32	34	35	38	40	42	44	45	48
DC 20 SC	•	•	•	•	•	•																						
DC 25 SC			•	•	•	•	•	•																				
DC 32 SC				•	•	•	•	•	•	•	•																	
DC 35 SC				•	•	•	•	•	•	•	•																	
DC 39 SC						•	•	•	•	•	•	•	•															
DC 42 SC						•	•	•	•	•	•	•	•	•														
DC 48 SC							•	•	•	•	•	•	•	•	•													
DC 54 SC								•	•	•	•	•	•	•	•	•	•											
DC 68 SC									•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
DC 80 SC										•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

Download detailed product information, including 2D (dwg) and 3D (step) files, from our website: www.jitcoupling.co.kr.



Dimension

Product Name	External Diameter	Length	Bore diameter range (d1/d2)		Shaft depth		Shaft Insert Distance	Bolt Size
			Min. Bore Diameter	Max. Bore Diameter	Shaft Insert Length	Shaft Insert Length		
DC 20 SC	Ø20	17.9	3	8	8	8	1.9	M2.5
DC 25 SC	Ø25	23.5	5	13	11	11	1.5	M3
DC 32 SC	Ø32	28.1	6	16	13	13	2.1	M4
DC 35 SC	Ø35	28.1	6	17	12.9	12.9	2.3	M4
DC 39 SC	Ø39	31.6	8	19	14.1	14.1	3.45	M4
DC 42 SC	Ø42	33.2	8	20	15	15	3.2	M4
DC 48 SC	Ø48	37	10	22	17	17	3	M5
DC 54 SC	Ø54	45.1	10	28	20	20	5.1	M6
DC 68 SC	Ø68	56.1	14	40	26	26	4.1	M6
DC 80 SC	Ø81	65.4	14	48	30	30	5.4	M8

Specification

Product Name	Rated Torque (Nm)	Max Torque (Nm)	Max. Rotational Frequency (min ⁻¹)	Moment of Inertia (kg*m ²)	Static Torsional Stiffness (Nm/rad)	Max. Lateral Misalignment (mm)	Max. Angular Misalignment (°)	Max. Axial Misalignment (mm)	Mass (g)
DC 20 SC	2.0	4.0	13,000	2.1x10 ⁻⁶	540	0.1	1	0.1	23
DC 25 SC	2.5	5.1	12,750	3.24x10 ⁻⁶	600	0.1	1	0.1	29.6
DC 32 SC	5.3	10.6	11,000	1.03x10 ⁻⁵	1,300	0.1	1	0.1	57.8
DC 35 SC	6.9	13.9	9,500	1.11x10 ⁻⁵	1,500	0.15	1.2	0.15	70
DC 39 SC	9.6	19.2	9,500	1.57x10 ⁻⁵	1,700	0.15	1.5	0.15	85
DC 42 SC	12.0	24.0	9,000	2.66x10 ⁻⁵	1,900	0.15	1.5	0.2	120
DC 48 SC	24.4	48.8	7,750	3.71x10 ⁻⁵	4,000	0.2	2	0.2	170
DC 54 SC	44.0	88.0	7,000	9.86x10 ⁻⁴	7,000	0.2	2	0.2	216
DC 68 SC	73.5	147.0	6,400	3.02x10 ⁻⁴	11,000	0.2	2	0.2	427
DC 80 SC	100.0	200.0	5,900	7.09x10 ⁻⁴	20,000	0.2	2	0.2	720