DC – B Type

Disc Couplings

Clamping Screw Double Disc Type

The DC-B Type is specifically designed for applications requiring the connection of shafts with differing diameters. For instance, it is particularly effective for coupling the larger output shaft of a servo motor speed reducer to the smaller diameter shaft of a ball screw. Constructed from high-elasticity stainless steel (STS 303), the disc ensures superior durability and an extended operational lifespan..

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.

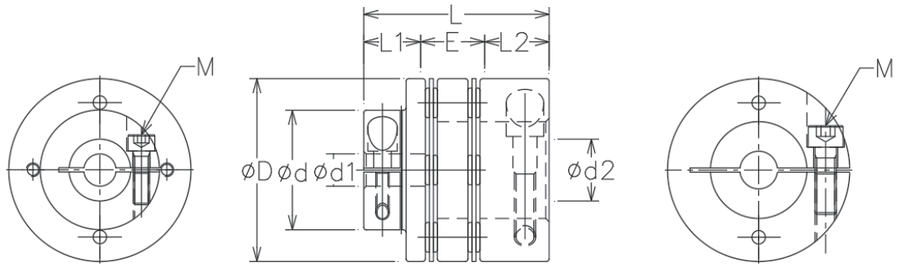
DC	32	B	-	10	-	15	LK3	–	RK5
series	Specifications (Outer diameter)	Type (Shape)		Bore diameter (d1)		Bore diameter (d2)	Keyway (Side d1)		Keyway (Side d2)
							For keyway machining		

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
DC 32 B		●	●	●	●	●	●	●	●	●	●													
DC 42 B				●	●	●	●	●	●	●	●	●	●	●										
DC 48 B						●	●	●	●	●	●	●	●	●	●									
DC 54 B							●	●	●	●	●	●	●	●	●	●	●	●						
DC 68 B							●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

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 32 B	Ø32/Ø20	38	4	16	13	13	12	M2.5/M4
DC 42 B	Ø42/Ø28	44.5	6	20	15	15	14.5	M3/M4
DC 48 B	Ø48/Ø31	50	8	22	17	17	16	M4/M5
DC 54 B	Ø54/Ø35	62	10	28	20	20	22	M5/M6
DC 68 B	Ø68/Ø44.5	69.2	10	40	22	26	21	M6

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 32 B	6.4	12.9	12,750	$1.03x10^{-5}$	1,300	0.1	1	0.1	79
DC 42 B	14.0	28.1	10,000	$4.71x10^{-5}$	1,900	0.1	1.5	0.2	143
DC 48 B	20.2	40.4	7,750	$6.89x10^{-5}$	4,000	0.13	1.5	0.2	171
DC 54 B	29.1	58.3	7,000	$1.05x10^{-4}$	7,000	0.15	2	0.2	280
DC 68 B	58.9	117.8	6,400	$0.31x10^{-3}$	11,000	0.2	2	0.2	502