



DC

Miniature Disk Coupling



DC□□A



DC□□B



DC□□C



DC□□SA



DC□□SB

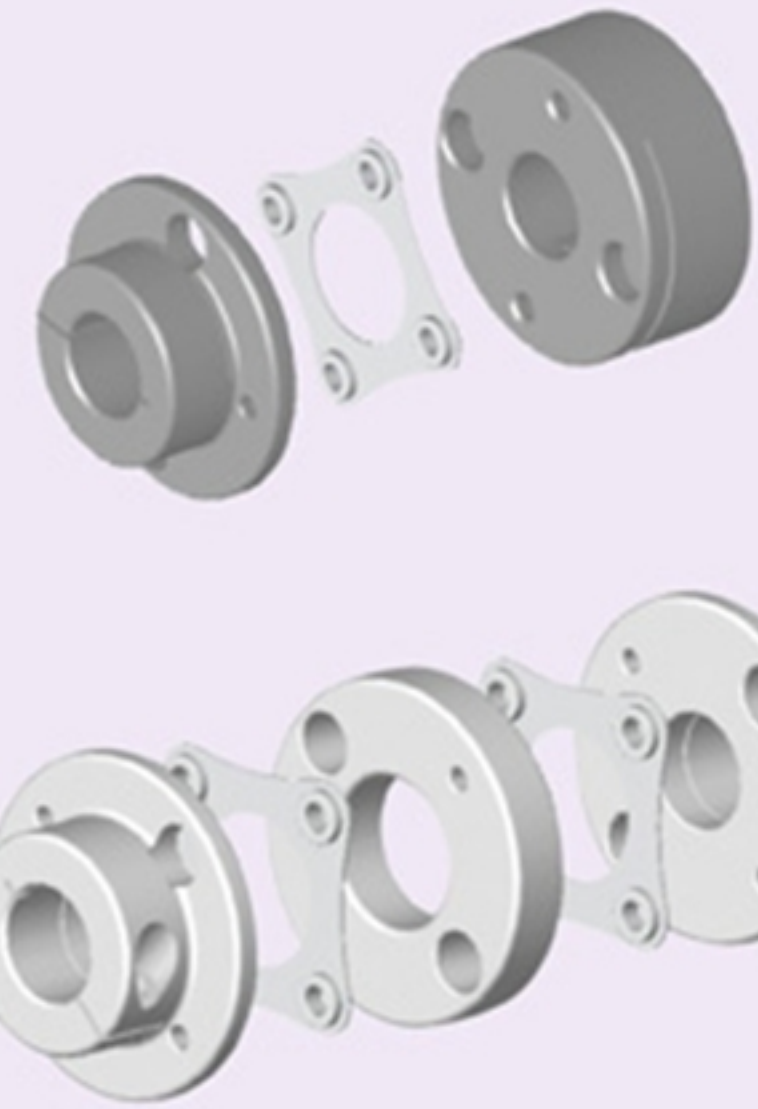


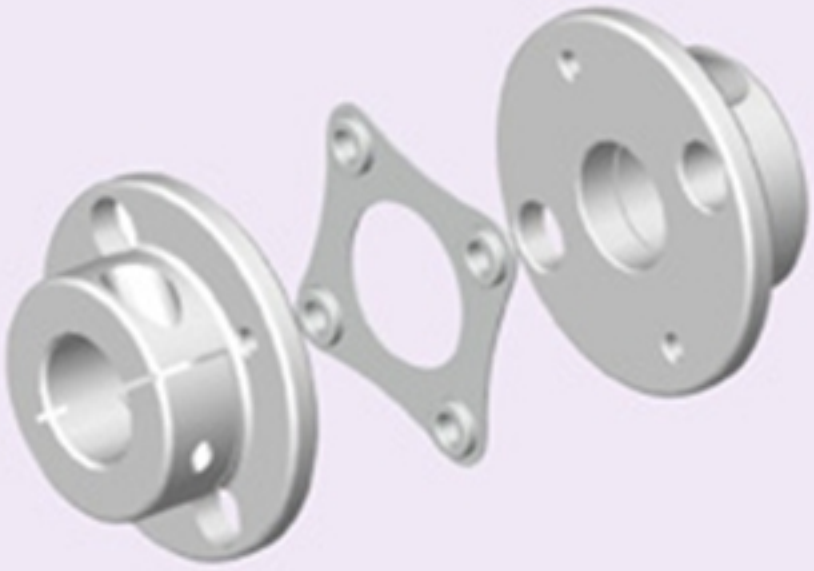
DC□□SC

DISK COUPLING

The disc coupling has the excellent high rotational precision,
as it is assembled with stanless steel plate
between high strength aluminum alloy(AL7075-6T) sleeves.
Applying double stainless steel discs, this type is very useful
where there exist big tolerances of the angular misalignment and shaft end-play.
The compact disc couplings with single disc plate are also available.
Operational temperature : -20℃~160℃







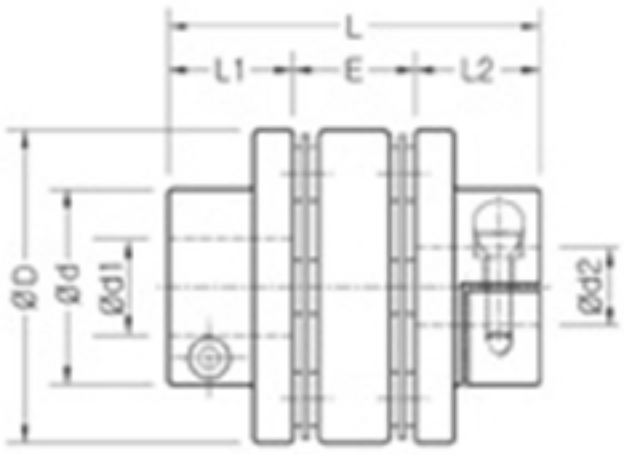
DC-A

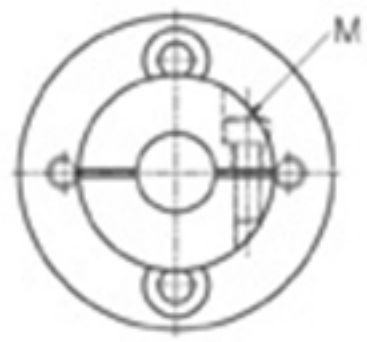




Miniature Disk Coupling

크램핑 더블 디스크 타입





*You Can downlosd the CAD data on the coupling from the website , " WWW.JITCOUPLING.CO.KR" *

Specifications

Series	Out-Diameter D/d	Length L	Bore Diameter Length		Depth of shaft		eccentricity E	bolt size M
			d1	d2	L1	L2		
DC 32 A	Ø32 / Ø20	38	4	10	13	13	12	M2.6
DC 42 A	Ø42 / Ø28	43	6	14	15	15	13	M3
DC 48 A	Ø48 / Ø31	50	8	16	17	17	16	M4
DC 54 A	Ø54 / Ø35	63	10	19	20	20	23	M5
DC 68 A	Ø68 / Ø44.5	66.4	12	23	22	22	22.4	M6

Stock Bores

Series	Standard Bore diameter Length											
DC 32 A	4	5	6	6.35	8	9.525	10					
DC 42 A	6	6.35	8	9.525	10	12	12.7	14				
DC 48 A	8	9.525	10	12	12.7	14	15	16				
DC 54 A	10	12	12.7	14	15	16	18	19				
DC 68 A	12	12.7	14	15	16	18	19	20	22	23		

DC-A

This type is assembled with high elastic steel plate
by bolts in both hubs for fixing shaft.
All parts of this coupling are composed of metals, and by reasons like above,
it is very useful where any heat is generated.
This type has ideal performance with good transmitting high torque
by a large diameter of the disc comparing to small shaft diameter.



How to order

DC 42 A 8 - 10

- 10 : Bore Diameter 2
- 8 : Bore Diameter 1
- DC 42 A : Model Number

▶Please order by bore diameter and model number (ex **DC42A 6-8** or **DC48A 10-12**)
▶Please put additional mark if key slot is needed

Performance

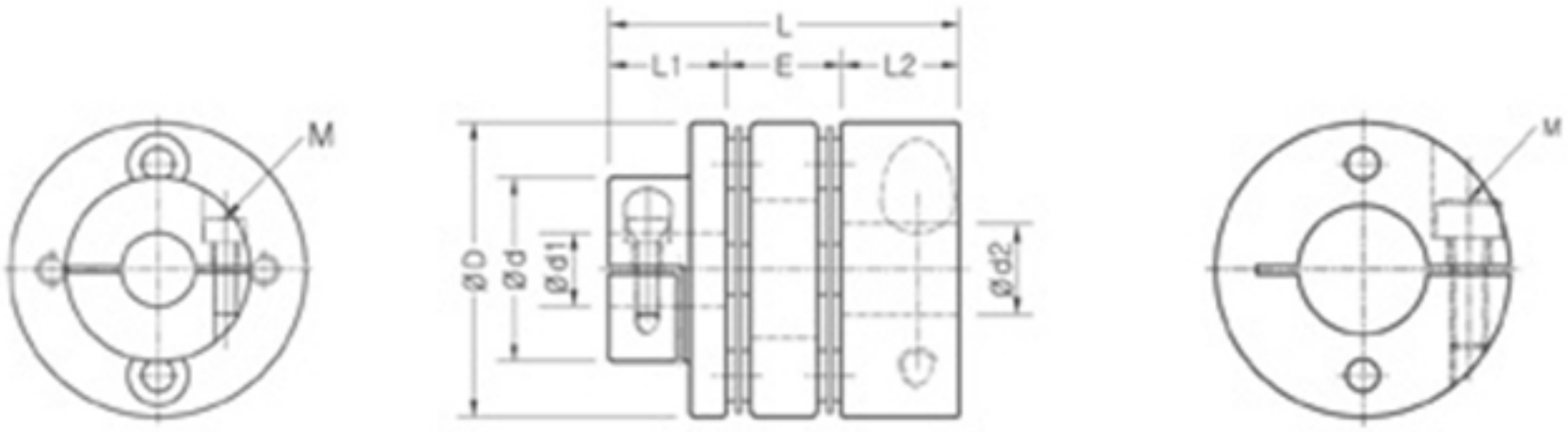
Series	Allowable Torque (N.m)	Maximum Torque (N.m)	Maximum RPM (r.p.m)	Moment of inertia ($kg.m^2$)	Static torsional stiffness (N.m/rad)	Allowable error of the eccentricity (mm)	Allowable error of the angularity (°)	Allowable error of the shaft end play (mm)	Mass (g)
DC 32 A	2.6	5.2	6,500	1.03×10^{-4}	1,000	0.1	1	0.1	75
DC 42 A	4.5	9	5,000	3.71×10^{-4}	1,400	0.1	1.5	0.2	102
DC 48 A	6.7	13.4	3,500	6.89×10^{-4}	1,850	0.13	1.5	0.2	151
DC 54 A	18.5	37.0	3,000	1.31×10^{-3}	2,300	0.15	2.0	0.2	260
DC 68 A	25.6	51.2	2,800	2.92×10^{-3}	2,900	0.2	2.0	0.2	438

DC-B





Miniature Disk Coupling
더블 디스크 타입



*You Can download the CAD data on the coupling from the website . " WWW.JITCOUPLING.CO.KR" *

Specifications

Series	Out-Diameter D/d	Length L	Bore Diameter Length		Depth of shaft		eccentricity E	bolt size M
			d1	d2	L1	L2		
DC 32 B	Ø32 / Ø20	38	4	14	13	13	12	M2.6 / M4
DC 42 B	Ø42 / Ø28	44.5	6	18	15	15	14.5	M3 / M4
DC 48 B	Ø48 / Ø31	50	8	20	17	17	16	M4 / M5
DC 54 B	Ø54 / Ø35	62	10	30	20	20	22	M5 / M6
DC 68 B	Ø68 / Ø44.5	69.2	12	36	22	22	25.2	M6

Stock Bores

Series	Standard Bore diameter Length										
DC 32 B	4	5	6	6.35	8	9.525	10				
		6	6.35	8	9.525	10	12	12.7	14		
DC 42 B	6	6.35	8	9.525	10	12	12.7	14			
		8	9.525	10	12	12.7	14	15	16	18	
DC 48 B	8	9.525	10	12	12.7	14	15	16			
		12	12.7	14	15	16	18	19	20		
DC 54 B	10	12	12.7	14	15	16	18	19			
		14	15	16	18	19	20	22	24	25	
DC 68 B	12	12.7	14	15	16	18	19	20	22	23	
		18	20	22	24	25	28	30	32	34	35

DC-B

This type is mounted effectively where to connect large-diameter shaft of the servomotor with small diameter shaft end of the ball screw.
The high elastic disc is composed of stainless steel plate, so it can expect the life-time longevity .



How to order

DC 42 B 8 - 10

- 10 : Bore Diameter 2
- 8 : Bore Diameter 1
- DC 42 B : Model Number

▶Please order by bore diameter and model number (ex **DC32B 6-8** or **DC48B 10-12**)
▶Please put additional mark if key slot is needed.

Performance

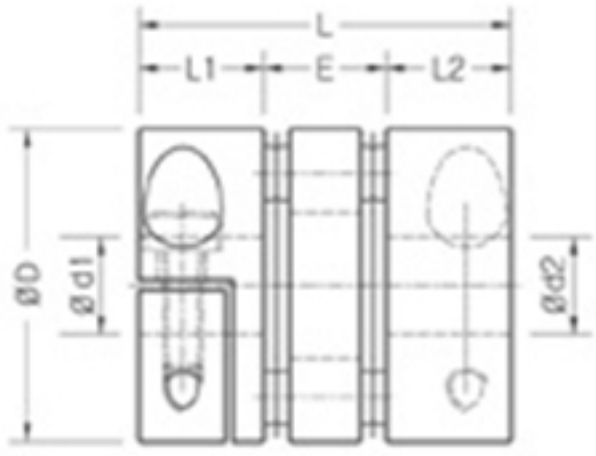
Series	Allowable Torque (N.m)	Maximum Torque (N.m)	Maximum RPM (r.p.m)	Moment of inertia ($kg.m^2$)	Static torsional stiffness (N.m/rad)	Allowable error of the eccentricity (mm)	Allowable error of the angularity (°)	Allowable error of the shaft end play (mm)	Mass (g)
DC 32 B	2.8	5.2	6,500	1.03×10^{-4}	1,000	0.1	1	0.1	79
DC 42 B	4.5	9	5,000	4.71×10^{-4}	1,400	0.1	1.5	0.2	143
DC 48 B	6.7	13.4	3,500	6.89×10^{-4}	1,850	0.13	1.5	0.2	171
DC 54 B	18.5	37.0	3,000	1.05×10^{-3}	2,300	0.15	2.0	0.2	280
DC 68 B	25.6	51.2	2,800	0.31×10^{-2}	2,900	0.2	2.0	0.2	502

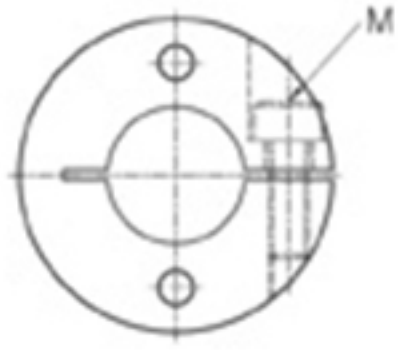
DC-C





Miniature Disk Coupling
더블 디스크 타입





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Specifications

Series	Out-Diameter D	Length L	Bore Diameter Length		Depth of shaft		eccentricity E	bolt size M
			d1	d2	L1	L2		
DC 25 C	Ø25	32	5	10	11	11	10	M3
DC 32 C	Ø32	38	6	14	13	13	12	M4
DC 42 C	Ø42	46	8	18	15	15	16	M4
DC 48 C	Ø48	50	12	20	17	17	16	M5
DC 54 C	Ø54	61	14	30	20	20	21	M6
DC 68 C	Ø68	72	18	36	22	22	28	M6

Stock Bores

Series	Standard Bore diameter Length											
DC 25 C	5	6	6.35	8	9.525	10						
DC 32 C	6	6.35	8	9.525	10	12	12.7	14				
DC 42 C	8	9.525	10	12	12.7	14	15	16	18			
DC 48 C	12	12.7	14	15	16	18	19	20				
DC 54 C	14	15	16	18	19	20	22	24	25			
DC 68 C	18	19	20	22	24	26	28	30	32	34	35	

DC-C

This type displays very excellent repeatability of tensile and compression force and has ideal structure & material with almost zero-backlash. This type should be aligned exactly because of very tight allowable tolerance of the eccentricity and has ideal performance with maintenance free and excellent resistance to oil and chemicals.



How to order

DC 32 C 8 - 10

- 10: Bore Diameter 2
- 8: Bore Diameter 1
- DC 32 C: Model Number

▶Please order by bore diameter and model number (ex **DC25C 6-8** or **DC48C 14-18**)
▶Please put additional mark if key slot is needed.

Performance

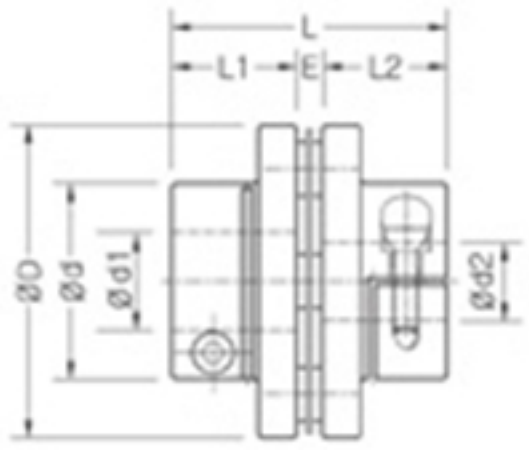
Series	Allowable Torque (N.m)	Maximum Torque (N.m)	Maximum RPM (r.p.m)	Moment of inertia ($kg.m^2$)	Static torsional stiffness (N.m/rad)	Allowable error of the eccentricity (mm)	Allowable error of the angularity (°)	Allowable error of the shaft end play (mm)	Mass (g)
DC 25 C	1.4	3.4	8,000	3.24×10^{-6}	450	0.1	1	0.1	42.4
DC 32 C	2.6	5.2	6,500	1.03×10^{-5}	1000	0.1	1	0.1	82.5
DC 42 C	4.5	9.0	5,000	3.71×10^{-5}	1400	0.15	1.5	0.2	172
DC 48 C	6.7	13.4	3,500	6.89×10^{-5}	1850	0.2	2.0	0.2	189
DC 54 C	18.5	37.0	3,000	1.36×10^{-4}	2300	0.2	2.0	0.2	293
DC 68 C	25.6	51.2	2,800	3.68×10^{-4}	2900	0.2	2.0	0.2	548

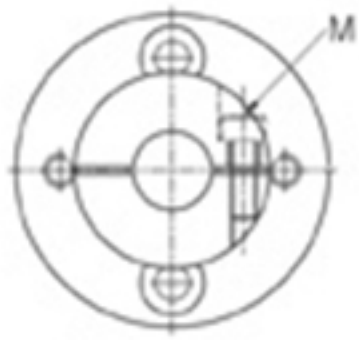
DC-SA





Miniature Disk Coupling
싱글 디스크 타입





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Specifications

Series	Out-Diameter D/d	Length L	Bore Diameter Length		Depth of shaft		eccentricity E	bolt size M
			d1	d2	L1	L2		
DC 32 SA	Ø32 / Ø20	28.1	4	10	13	13	2.1	M2.6
DC 42 SA	Ø42 / Ø28	30.2	6	14	15	15	3.2	M3
DC 48 SA	Ø48 / Ø31	37	8	16	17	17	3.0	M4
DC 54 SA	Ø54 / Ø35	47.1	10	19	20	20	7.1	M5
DC 68 SA	Ø68 / Ø44.5	50.5	12	23	22	22	6.5	M6

Stock Bores

Series	Standard Bore diameter Length											
DC 32 SA	4	5	6	6.35	8	9.525	10					
DC 42 SA	6	6.35	8	9.525	10	12	12.7	14				
DC 48 SA	8	9.525	10	12	12.7	14	15	16				
DC 54 SA	10	12	12.7	14	15	16	18	19				
DC 68 SA	12	12.7	14	15	16	18	19	20	22	23		

DC-SA

This type is assembled with single stainless steel plate,
and its short length makes it easy to mount in narrow space.
This type should be aligned exactly because of very tight allowable tolerance of the eccentricity.
The anodizing treatment on the surface displays the excellent anti-corrosion performance
and the resistance to oil and chemicals.



How to order

DC 42 SA 6 - 10

- 10 — Bore Diameter 2
- 6 — Bore Diameter 1
- DC 42 SA — Model Number

▶Please order by bore diameter and model number (ex **DC32SA 6-8** or **DC48SA 10-12**)
▶Please put additional mark if key slot is needed.

Performance

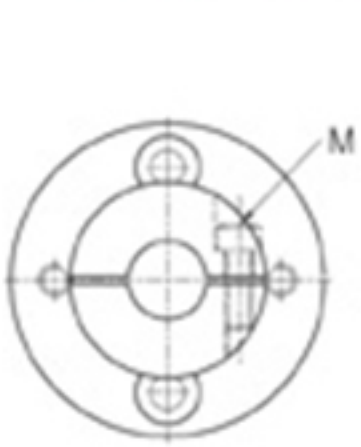
Series	Allowable Torque (N.m)	Maximum Torque (N.m)	Maximum RPM (r.p.m)	Moment of inertia ($kg.m^2$)	Static torsional stiffness (N.m/rad)	Allowable error of the eccentricity (mm)	Allowable error of the angularity (°)	Allowable error of the shaft end play (mm)	Mass (g)
DC 32 SA	2.6	5.2	6,500	3.98×10^{-6}	1,200	0.1	1	0.1	65
DC 42 SA	4.5	9	5,000	1.56×10^{-5}	1,400	0.1	1.5	0.2	71
DC 48 SA	6.7	13.4	3,500	1.32×10^{-5}	1,850	0.13	1.5	0.2	103
DC 54 SA	18.5	37.0	3,000	6.53×10^{-5}	2,300	0.15	2.0	0.2	166
DC 68 SA	25.6	51.2	2,800	1.07×10^{-4}	2,900	0.2	2.0	0.2	283

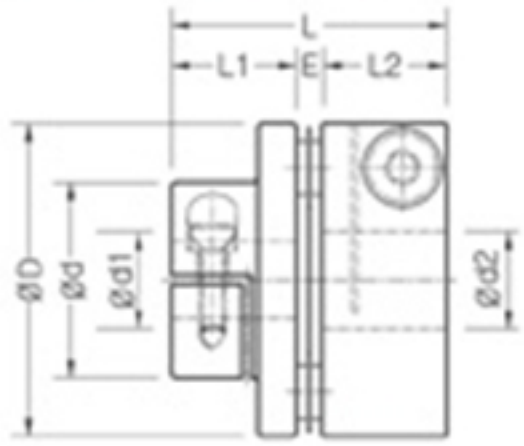
DC-SB

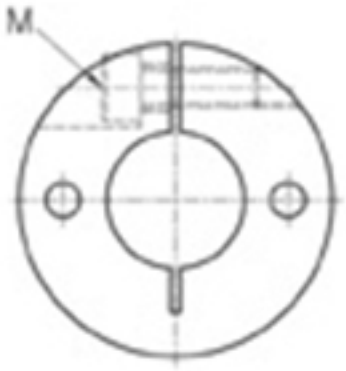




Miniature Disk Coupling
싱글 디스크 타입







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Specifications

Series	Out-Diameter D/d	Length L	Bore Diameter Length		Depth of shaft		eccentricity E	bolt size M
			d1	d2	L1	L2		
DC 32 SB	Ø32 / Ø20	28.1	4	14	13	13	2.1	M2.6 / M4
DC 42 SB	Ø42 / Ø28	31.7	6	18	15	15	1.7	M3 / M4
DC 48 SB	Ø48 / Ø31	37	8	20	17	17	3	M4 / M5
DC 54 SB	Ø54 / Ø35	46.1	10	30	20	20	6.1	M5 / M6
DC 68 SB	Ø68 / Ø44.5	53.3	12	36	22	22	9.3	M6

Stock Bores

Series	Standard Bore diameter Length										
DC 32 SB	4	5	6	6.35	8	9.525	10				
		6	6.35	8	9.525	10	12	12.7	14		
DC 42 SB	6	6.35	8	9.525	10	12	12.7	14			
		8	9.525	10	12	12.7	14	15	16	18	
DC 48 SB	8	9.525	10	12	12.7	14	15	16			
		12	12.7	14	15	16	18	19	20		
DC 54 SB	10	12	12.7	14	15	16	18	19			
		14	15	16	18	19	20	22	24	25	
DC 68 SB	12	12.7	14	15	16	18	19	20	22	23	
		18	20	22	24	25	28	30	32	34	35

DC-SB

This type is mounted effectively where to connect large-diameter shaft of the servomotor with small diameter shaft end of the ball screw. The high elastic disc is composed of the stainless steel plate, it can expect the lift-time longevity .



How to order

DC 42 SB 8 - 10

- 10 : Bore Diameter 2
- 8 : Bore Diameter 1
- DC 42 SB : Model Number

▶Please order by bore diameter and model number (ex **DC42SB 8-14** or **DC48SB 14-20**)
▶Please put additional mark if key slot is needed.

Performance

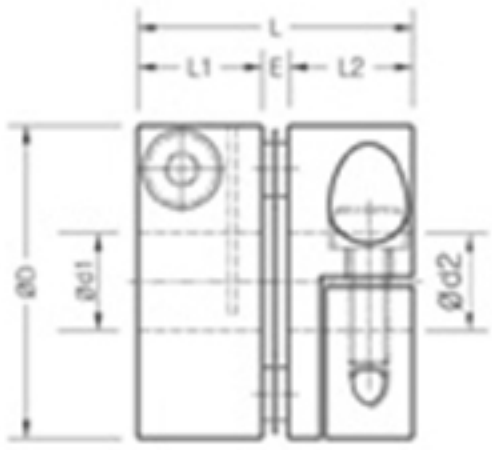
Series	Allowable Torque (N.m)	Maximum Torque (N.m)	Maximum RPM (r.p.m)	Moment of inertia ($kg.m^2$)	Static torsional stiffness (N.m/rad)	Allowable error of the eccentricity (mm)	Allowable error of the angularity (°)	Allowable error of the shaft end play (mm)	Mass (g)
DC 32 SB	2.6	5.2	6,500	4.02×10^{-4}	1,200	0.1	1	0.1	68
DC 42 SB	4.5	9	5,000	1.35×10^{-3}	1,400	0.1	1.5	0.2	108
DC 48 SB	6.7	13.4	3,500	4.18×10^{-3}	1,850	0.13	1.5	0.2	148
DC 54 SB	18.5	37.0	3,000	7.54×10^{-3}	2,300	0.15	2.0	0.2	182
DC 68 SB	25.6	51.2	2,800	2.65×10^{-2}	2,900	0.2	2.0	0.2	378

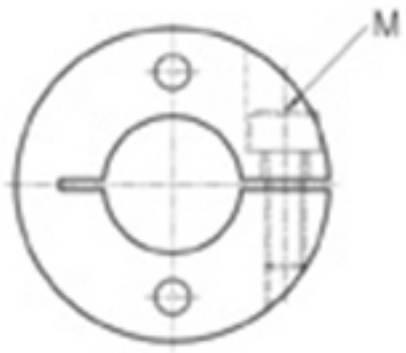
DC-SC





Miniature Disk Coupling
싱글 디스크 타입





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Specifications

Series	Out-Diameter D	Length L	Bore Diameter Length		Depth of shaft		eccentricity E	bolt size M
			d1	d2	L1	L2		
DC 25 SC	Ø25	23.5	5	10	11	11	1.5	M3
DC 32 SC	Ø32	28.1	6	14	13	13	2.1	M4
DC 42 SC	Ø42	33.2	8	18	15	15	3.2	M4
DC 48 SC	Ø48	37	12	20	17	17	3	M5
DC 54 SC	Ø54	45.1	14	30	20	20	5.1	M6
DC 68 SC	Ø68	56.1	18	36	22	22	12.1	M6

Stock Bores

Series	Standard Bore diameter Length											
DC 25 SC	5	6	6.35	8	9.525	10						
DC 32 SC	6	6.35	8	9.525	10	12	12.7	14				
DC 42 SC	8	9.525	10	12	12.7	14	15	16	18			
DC 48 SC	12	12.7	14	15	16	18	19	20				
DC 54 SC	14	15	16	18	19	20	22	24	25			
DC 68 SC	18	19	20	22	24	26	28	30	32	34	35	

DC-SC

This type expects the life-time longevity without wear,
or contact with each other by spring action of the stainless steel plate.
The high strength aluminum hub makes
it possible to display low inertia moment, and zero-backlash.
For safety, make sure to use below the allowable speed and torque value.



How to order

DC 32 SC 8 - 10

- 10 — Bore Diameter 2
- 8 — Bore Diameter 1
- DC 32 SC — Model Number

▶Please order by bore diameter and model number (ex **DC25SC 6-8** or **DC48SC 14-18**)
▶Please put additional mark if key slot is needed.

Performance

Series	Allowable Torque (N.m)	Maximum Torque (N.m)	Maximum RPM (r.p.m)	Moment of inertia ($kg.m^2$)	Static torsional stiffness (N.m/rad)	Allowable error of the eccentricity (mm)	Allowable error of the angularity (°)	Allowable error of the shaft end play (mm)	Mass (g)
DC 25 SC	1.4	3.4	8,000	3.24×10^{-6}	450	0.1	1	0.1	29.6
DC 32 SC	2.6	5.2	6,500	1.03×10^{-5}	1,000	0.1	1	0.1	57.8
DC 42 SC	4.5	9.0	5,000	2.66×10^{-5}	1,400	0.15	1.5	0.2	120
DC 48 SC	6.7	13.4	3,500	3.71×10^{-5}	1,850	0.2	2.0	0.2	170
DC 54 SC	18.5	37.0	3,000	9.86×10^{-5}	2,300	0.2	2.0	0.2	216
DC 68 SC	25.6	51.2	2,800	3.02×10^{-4}	2,900	0.2	2.0	0.2	427