Coupling

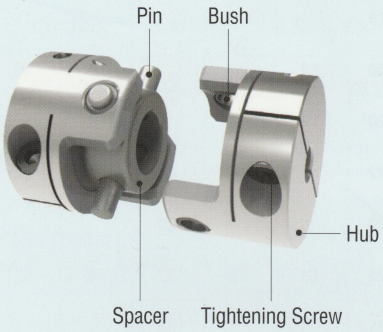
DRCJ

Features

- Flexible Coupling of the cross joint type.
- Absorbs very large eccentricity and declination due to Slip between Bush built in the hub and Spacer pin.
- In case of Clamp type, it implements a complete Balancing due to symmetry structure of clamping bolt and part crippled by side.
- Backlash is very small due to Pin and Bush are Assembled in high level.
- Axial load caused by misalignment is small, So minimize the load of relative axis.

Structure & Material

- Hub : Aluminum alloy with High Stiffness
- Surface treatment : Alumite process
- PIN : SUJ2
- Bush : Dry Bearing
- Spacer : SUS304
- Tightening Screw : SCM435

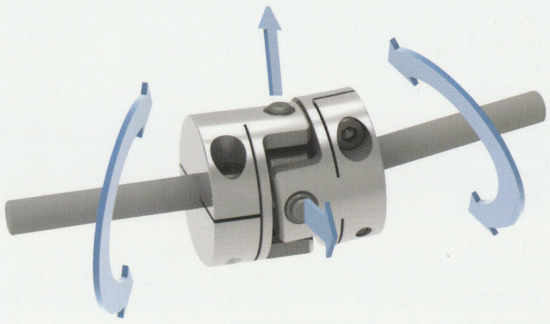


Usage

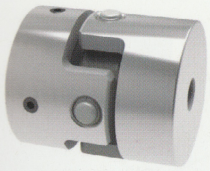
- Servo motor
- Stepping motor
- General wide use motor

Others

- When using at high temperatures, the change of torsional stiffness and Responsiveness is very small, but note the misalignment.
- Encourage h7 for tolerance of shaft.

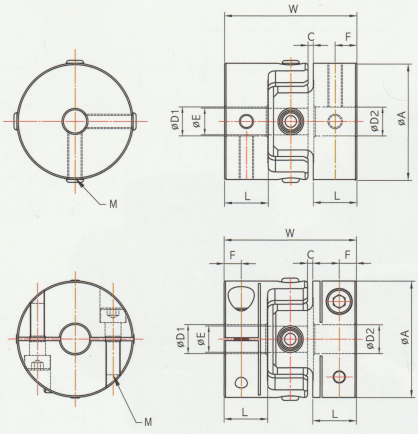


Order method DRCJ–32C–Ø8×Ø12
Product No. D1 D2



Set Screw Type

Clamp Type



Product NO.	Dimension(mm)						Tightening Screw		Rated. Torque	Max. Torque	Max. RPM	Moment of Inertia	Torsional Stiffness	Angle	Parallel	End Play	Mass
							Size	Torque									
	A	L	W	C	F	E	M	N · m	N · m	N · m	min^{-1}	kg · m^2	N·m/rad	°	mm	mm	g
DRCJ-15	15	7.4	22.2	0.7	3.7	2.7	M3	0.7	0.3	0.6	42,000	3.1×10^{-7}	210	1.5	0.3	0	11
DRCJ-20	20	7.4	23.4	0.8	3.7	4.2	M3	0.7	0.6	1.2	31,000	1.0×10^{-6}	472.5	1.5	0.5	0	21
DRCJ-25	25	10.4	30.4	1.3	5.2	5.2	M4	1.7	1.2	2.4	25,000	3.2×10^{-6}	840	1.5	0.5	0	42
DRCJ-32	32	12.9	39	1.6	6.45	8.2	M5	4	4	8	21,000	1.1×10^{-5}	1,260	1.5	0.5	0	90
DRCJ-40	40	15	45.6	1.8	7.5	15.2	M5	4	6	12	15,000	3.2×10^{-5}	1,995	1.5	0.5	0	158
DRCJ-15C	15	7.4	22.2	0.7	2.95	2.7	M2.5	1	0.3	0.6	42,000	3.2×10^{-7}	231	1.5	0.3	0	11
DRCJL-15C	15	7.4	24.2	1.7	2.95	2.7	M2.5	1	0.3	0.6	33,000	3.3×10^{-7}	210	2	0.3	0	12
DRCJ-20C	20	7.4	23.4	0.8	2.75	4.2	M2.5	1	0.6	1.2	31,000	1.0×10^{-6}	367.5	1.5	0.5	0	21
DRCJL-20C	20	7.4	26.4	2.3	2.75	4.2	M2.5	1	0.6	1.2	24,000	1.0×10^{-6}	315	2	0.5	0	22
DRCJ-25C	25	10.4	30.4	1.3	3.55	5.2	M3	2	1.2	2.4	25,000	3.1×10^{-6}	840	1.5	0.5	0	41
DRCJL-25C	25	10.4	33.4	2.8	3.55	5.2	M3	2	1.2	2.4	20,000	3.2×10^{-6}	735	2	0.5	0	43
DRCJ-32C	32	12.9	39	1.6	4.4	8.2	M4	4	4	8	21,000	1.1×10^{-5}	1,260	1.5	0.5	0	87
DRCJL-32C	32	12.9	43	3.6	4.4	8.2	M4	4	4	8	16,000	1.1×10^{-5}	1,050	2	0.5	0	90
DRCJ-40C	40	15	45.6	1.8	5.9	15.2	M5	8	6	12	15,000	3.1×10^{-5}	1,995	1.5	0.5	0	157
DRCJL-40C	40	15	51	4.5	5.9	15.2	M5	8	6	12	12,000	3.2×10^{-5}	1,890	2	0.5	0	160

Mass and Moment of inertia are measured with max bore size.

Product NO.	Standard Inner diameter(D1, D2) (mm)										
	3	4	5	6	6.35	8	10	11	12	14	15
DRCJ□-15□	•	•	•	•	•						
DRCJ□-20□		•	•	•	•	•					
DRCJ□-25□			•	•	•	•	•				
DRCJ□-32□				•	•	•	•	•	•	•	
DRCJ□-40□						•	•	•	•	•	•