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Technical Parameter of DC

Description:

Type DC is a sprag type freewheel cage without inner or outer races. It must be installed in a design providing races, bearing support for axial and radial loads, lubrication and sealing. The DC type version-N accepts all types of lubricants currently used in the power transmission equipment.

The sprag space tolerance must not be exceeded.

Inner and outer races must both have a minimum plain width “e”, without any recess, to ensure the freewheel functions correctly.

Alternatively, races can be made in case hardened steel shafts, or housings, to the specification below.

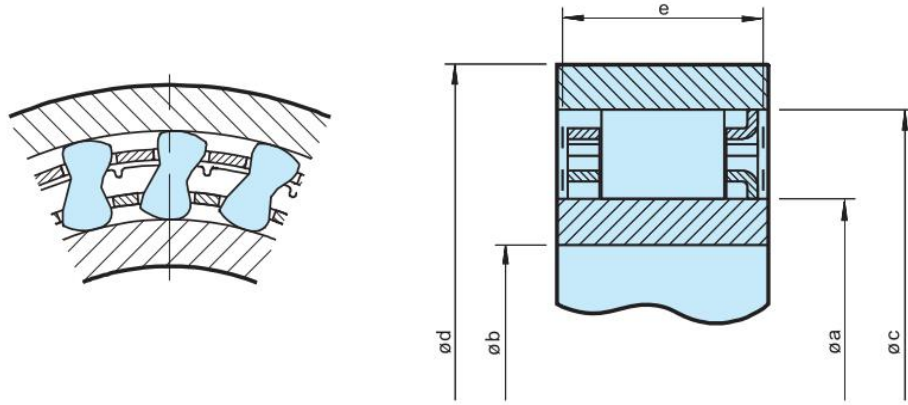
Surface hardness of the finished part should be HRC 60 to 62, for a depth of 0,6 mm minimum.

Core hardness to be HRC35 to 45.

Surface roughness not to exceed 22CLA.

Maximum taper between races: 0,007 mm for 25 mm width.

DC



Size	Torque	Overrunning speeds		ϕa + 0,008 - 0,005	ϕc $\pm 0,013$	Sprag space	e_{min}	ϕd_{min}	ϕb_{max}	Number of clips	Number of sprags	Weight [kg]
	T_{KN}^1 [Nm]	n_{imax}^2 [min ⁻¹]	N_{amax}^2 [min ⁻¹]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]			
DC2222G	63	8600	4300	22.225	38.885	8.33	10.0	50	15	-	12	0.030
DC2776	119	6900	3400	27.762	44.422	8.33	13.5	58	18	-	14	0.055
DC3034	124	6300	3100	30.340	47.000	8.33	13.5	62	20	-	14	0.060
DC3175(3C)	159	6000	3000	31.750	48.410	8.33	13.5	63	24	3	16	0.060
DC3809A	275	5000	2500	38.092	54.752	8.33	16	71	29	-	18	0.085
DC4127(3C)	224	4600	2300	41.275	57.935	8.33	13.5	75	32	3	18	0.090
DC4445A	363	4300	2100	44.450	61.11	8.33	16	79	34	-	20	0.095
DC4972(4C)	306	3800	1900	49.721	66.381	8.33	13.5	86	38	4	22	0.100
DC5476A	525	3500	1700	54.765	71.425	8.33	16	92	42	-	24	0.110
DC5476A(4C)	525	3500	1700	54.765	71.425	8.33	16	92	42	4	24	0.130
DC5476B(4C)	769	3500	1700	54.765	71.425	8.33	21	92	42	4	24	0.180
DC5476C(4C)	990	3500	1700	54.765	71.425	8.33	25.4	92	42	4	24	0.200
DC5776A	604	3300	1600	57.760	74.420	8.33	16	98	44	-	26	0.110
DC6334B	806	3000	1500	63.340	80.000	8.33	21	104	50	-	26	0.175
DC7221(5C)	675	2600	1300	72.217	88.877	8.33	13.5	115	56	5	30	0.140
DC7221B	1279	2600	1300	72.217	88.877	8.33	21	115	56	-	30	0.185
DC7221B(5C)	1279	2600	1300	72.217	88.877	8.33	21	115	56	5	30	0.210
DC7969C(5C)	2038	2400	1200	79.698	96.358	8.33	25.4	124	61	5	34	0.280
DC8334C	2055	2300	1100	83.340	100.00	8.33	25.4	132	65	-	34	0.270
DC8729A	1250	2200	1100	87.290	103.96	8.33	16	134	67	-	34	0.165
DC10323A(3C)*	1612	1800	900	103.231**	119.891	8.33	16	155	80	3	40	0.205
DC12334C*	4800	1500	750	123.34**	140.00	8.33	25.4	184	96	-	50	0.400
DC12388C(11C)	4875	1500	750	123.881	142.88	9.5	25.4	196	96	11	44	0.400



