



Subject	Symbol	Description
Seal type	ZZ	Metal shields on both sides
	2RS	Rubber seals on both sides
	Z	Metal shield on one side
	RS	Rubber seal on one side
Radial internal clearance	C2	Less than normal
	CN	Normal clearance. Is not indicated as a standard
	C3	Greater clearance than normal
	C4	Greater than C3
	C5	Greater than C4
Other technical modifications	NR	Groove with inserted snap ring in outer ring
	N	Snap ring groove in the outer ring
	SS	Stainless steel
Cage type	M	Brass cage ball guided
	MB	Brass cage, inner ring centered
	MA	Brass cage, outer ring centered
Speed ratings	V	Normal vibration level. Is not indicated as a standard
	V2	Lower vibration level than normal
	V3	Lower vibration level than V2
	V4	Lower vibration level than V3
Tolerances	P0	Normal tolerance level. Is not indicated as a standard
	P6	Greater tolerance level than P0
	P5	Greater tolerance level than P6

Features

Single row deep groove ball bearings are most frequently used bearing type. They are versatile, self-retaining bearings with solid outer rings, inner rings and ball and cage assemblies. Due to their low frictional torque, they are suitable for high and even very high speeds and are robust in operation, little maintenance. Due to the raceway geometry and the balls used as rolling elements, deep groove ball bearings can support relatively high radial loads, as well as small axial loads.

Sealing and lubrication

The most popular sizes of deep groove ball bearings are also produced in sealed versions. These bearings with Z and ZZ are greased using a high quality grease, lubricated for life and suitable for high speeds. Bearings with the suffix RS or 2RS have lip seals on one or both sides made from nitrile butadiene rubber. CRAFT bearings grease is a low noise bearing grease which is thickened by lithium 12-hydroxy stearic, it is made from deeply refined mineral oil with rust and oxidation inhibitors through special technical process. Applied temperature range -20 C - +120 C.

Radial internal clearance

Bearing internal clearance is defined as the total distance through which one bearing ring can be moved relative to the other in the radial direction (radial internal clearance). CRAFT bearings single row deep groove ball bearings are manufactured with normal radial internal clearance as standard (CN). Most of the bearings are also available with C3 radial internal clearance. Depending on working conditions you can choose bearing with different internal clearances, the values of radial internal clearance are in accordance to ISO 5753:1 and are valid for unmounted bearings under zero measuring load.

Cages

CRAFT single row deep groove ball bearings are supplied with one of the following cages: steel cage or brass cage. Single row deep groove ball bearings without a cage suffix have a steel cage. Most frequently deep groove ball bearing with ball-guided solid brass cages are indicated by suffix M. These brass cage bearings can also be with inner ring centered (MB), or outer ring centered (MA).

ISO	GOST	Dimensions (mm)			Basic Load Ratings (N)		Limiting speed (r/min)		Weight (kg)
							Lubrication		
		d	D	B	Dyn. C	Stat. C ₀	Grease	Oil	
61900	1000900	10	22	6	1950	750	30000	36000	0,010
61900 ZZ	1000900 ZZ	10	22	6	1950	750	30000	36000	0,010
61900 2RS	1000900 2RS	10	22	6	1950	750	19000	-	0,010
61901	1000901	12	24	6	2250	980	27000	32000	0,011
61901 ZZ	1000901 ZZ	12	24	6	2250	980	27000	32000	0,011
61901 2RS	1000901 2RS	12	24	6	2250	980	18000	-	0,011
61902	1000902	15	28	7	4030	2040	24000	28000	0,016
61902 ZZ	1000902 ZZ	15	28	7	4030	2040	24000	28000	0,016
61902 2RS	1000902 2RS	15	28	7	4030	2040	16000	-	0,016
61903	1000903	17	30	7	4360	2320	22000	26000	0,018
61903 ZZ	1000903 ZZ	17	30	7	4360	2320	22000	26000	0,018
61903 2RS	1000903 2RS	17	30	7	4360	2320	14000	-	0,018
61904	1000904	20	37	9	6370	3650	19000	23000	0,038
61904 ZZ	1000904 ZZ	20	37	9	6370	3650	19000	23000	0,038
61904 2RS	1000904 2RS	20	37	9	6370	3650	12000	-	0,038
61905	1000905	25	42	9	6630	4000	16000	19000	0,045
61905 ZZ	1000905 ZZ	25	42	9	6630	4000	16000	19000	0,045
61905 2RS	1000905 2RS	25	42	9	6630	4000	10000	-	0,045
61906	1000906	30	47	9	7280	4550	14000	17000	0,051
61906 ZZ	1000906 ZZ	30	47	9	7280	4550	14000	17000	0,051
61906 2RS	1000906 2RS	30	47	9	7280	4550	8500	-	0,051
61907	1000907	35	55	10	9560	6200	12000	15000	0,080
61907 ZZ	1000907 ZZ	35	55	10	9560	6200	12000	15000	0,080
61907 2RS	1000907 2RS	35	55	10	9560	6200	7500	-	0,080
61908	1000908	40	62	12	13800	9300	11000	13000	0,110
61908 ZZ	1000908 ZZ	40	62	12	13800	9300	11000	13000	0,110
61908 2RS	1000908 2RS	40	62	12	13800	9300	6700	-	0,110
61909	1000909	45	68	12	10100	6700	9800	12000	0,140
61909 ZZ	1000909 ZZ	45	68	12	10100	6700	9800	12000	0,140
61909 2RS	1000909 2RS	45	68	12	10100	6700	6000	-	0,140
61910	1000910	50	72	12	14600	10400	8900	11000	0,140
61910 ZZ	1000910 ZZ	50	72	12	14600	10400	8900	11000	0,140
61910 2RS	1000910 2RS	50	72	12	14600	10400	5600	-	0,140
61911	1000911	55	80	13	15900	11400	8200	9600	0,190
61911 ZZ	1000911 ZZ	55	80	13	15900	11400	8200	9600	0,190
61911 2RS	1000911 2RS	55	80	13	15900	11400	5000	-	0,190
61912	1000912	60	85	13	16500	12000	7600	8900	0,200
61912 ZZ	1000912 ZZ	60	85	13	16500	12000	7600	8900	0,200
61912 2RS	1000912 2RS	60	85	13	16500	12000	4500	-	0,200
61913	1000913	65	90	13	17400	13400	7000	8200	0,220
61913 ZZ	1000913 ZZ	65	90	13	17400	13400	7000	8200	0,220
61913 2RS	1000913 2RS	65	90	13	17400	13400	4300	-	0,220
61914	1000914	70	100	16	23800	18300	6500	7700	0,350
61914 ZZ	1000914 ZZ	70	100	16	23800	18300	6500	7700	0,350
61914 2RS	1000914 2RS	70	100	16	23800	18300	4000	-	0,350
61915	1000915	75	105	16	24200	19300	6100	7200	0,370
61915 ZZ	1000915 ZZ	75	105	16	24200	19300	6100	7200	0,370
61915 2RS	1000915 2RS	75	105	16	24200	19300	3600	-	0,370
61916	1000916	80	110	16	25100	20400	5700	6700	0,400
61916 ZZ	1000916 ZZ	80	110	16	25100	20400	5700	6700	0,400
61916 2RS	1000916 2RS	80	110	16	25100	20400	3400	-	0,400
61917	1000917	85	120	18	32000	29600	5400	6300	0,517
61917 ZZ	1000917 ZZ	85	120	18	32000	29600	5400	6300	0,517
61917 2RS	1000917 2RS	85	120	18	32000	29600	2800	-	0,517
61918	1000918	90	125	18	33000	31500	5100	6000	0,590
61918 ZZ	1000918 ZZ	90	125	18	33000	31500	5100	6000	0,590
61918 2RS	1000918 2RS	90	125	18	33000	31500	2400	-	0,590
61919	1000919	95	130	18	33500	33500	4800	5700	0,680

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							Lubrication		
		d	D	B	Dyn. C	Stat. C ₀	Grease	Oil	
61919 ZZ	1000919 ZZ	95	130	18	33500	33500	4800	5700	0,680
61920	1000920	100	140	20	42300	41500	4500	5300	0,830
61920 ZZ	1000920 ZZ	100	140	20	42300	41500	4500	5300	0,830
61922	1000920	110	150	20	43600	44500	4100	4800	0,900
61922 ZZ	1000920 ZZ	110	150	20	43600	44500	4100	4800	0,900
61924	1000924	120	165	22	53000	57000	3800	4400	1,200
61924 ZZ	1000924 ZZ	120	165	22	53000	57000	3800	4400	1,129
61926	1000926	130	180	24	65000	67000	3500	4100	1,600
61926 ZZ	1000926 ZZ	130	180	24	65000	67000	3500	4100	1,780
61928	1000928	140	190	24	66300	71000	3200	3800	1,700
61928 ZZ	1000928 ZZ	140	190	24	66300	71000	3200	3800	1,900
61930	1000930	150	210	28	85000	90500	3000	3500	2,470
61930 ZZ	1000930 ZZ	150	210	28	85000	90500	3000	3500	2,640
61932	1000932	160	220	28	87000	96000	2800	3300	2,610
61934	1000934	170	230	28	86000	95500	2600	3100	2,740
61936	1000936	180	250	33	110000	119000	2400	2900	4,760
61940	1000940	200	280	38	148000	166000	2200	2600	7,400
61944	1000944	220	300	38	151000	180000	2000	2300	8,000
61948	1000948	240	320	38	170000	203000	1800	2100	8,280
61952	1000952	260	360	46	212000	270000	1600	1900	14,500
61956	1000956	280	380	46	216000	285000	1500	1800	15,500
61960	1000960	300	420	56	276000	375000	1400	1600	23,500
61964	1000964	320	440	56	285000	405000	1300	1500	24,800
61968	1000968	340	460	56	293000	430000	1200	1400	26,200
61972	1000972	360	480	56	300000	455000	1100	1300	27,500
61976	1000976	380	520	65	325000	510000	1100	1200	39,800
61980	1000980	400	540	65	335000	535000	990	1200	41,600
61984	1000984	420	560	65	340000	560000	940	1100	43,400
61988	1000988	440	600	74	365000	615000	890	1000	60,000
61992	1000992	460	620	74	375000	645000	850	1000	62,200
61996	1000996	480	650	78	430000	770000	810	950	73,000