



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

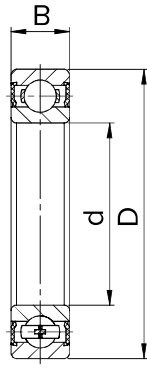
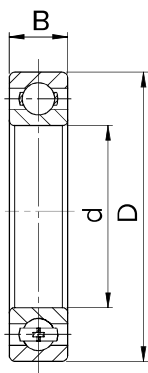
The most popular sizes of deep groove ball bearings are also produced in sealed versions. These bearings with Z and ZZ are greased using a high quality grease, lubricated for life and suitable for high speeds. Bearings with the suffix RS or 2RS have lip seals on one or both sides made from nitrile butadiene 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

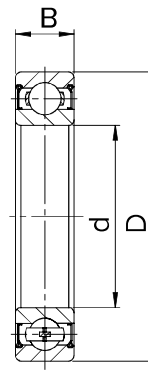
Bearing internal clearance is defined as the total distance through which one bearing ring can be moved relative to the other in the radial direction (radial internal clearance). CRAFT bearings single row deep groove ball bearings are manufactured with normal radial internal clearance as standard (CN). 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

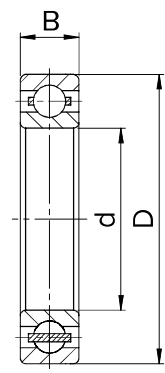
CRAFT single row deep groove ball bearings are supplied with one of the following cages: steel cage or brass cage. Single row deep groove ball bearings without a cage suffix have a steel cage. Most frequently deep groove ball bearing with ball-guided solid brass cages are indicated by suffix M. These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



2RS



ZZ



M

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	
61800	1000800	10	19	5	1380	585	32000	38000	0,006
61800 ZZ	1000800 ZZ	10	19	5	1380	585	32000	38000	0,006
61800 2RS	1000800 2RS	10	19	5	1380	585	20000	-	0,006
61801	1000801	12	21	5	1430	670	29000	35000	0,006
61801 ZZ	1000801 ZZ	12	21	5	1430	670	29000	35000	0,006
61801 2RS	1000801 2RS	12	21	5	1430	670	19000	-	0,006
61802	1000802	15	24	5	1560	800	26000	31000	0,007
61802 ZZ	1000802 ZZ	15	24	5	1560	800	26000	31000	0,007
61802 2RS	1000802 2RS	15	24	5	1560	800	17000	-	0,007
61803	1000803	17	26	5	1680	930	24000	28000	0,008
61803 ZZ	1000803 ZZ	17	26	5	1680	930	24000	28000	0,008
61803 2RS	1000803 2RS	17	26	5	1680	930	16000	-	0,008
61804	1000804	20	32	7	2700	1500	21000	25000	0,018
61804 ZZ	1000804 ZZ	20	32	7	2700	1500	21000	25000	0,018
61804 2RS	1000804 2RS	20	32	7	2700	1500	13000	-	0,018
61805	1000805	25	37	7	4360	2600	18000	21000	0,022
61805 ZZ	1000805 ZZ	25	37	7	4360	2600	18000	21000	0,022
61805 2RS	1000805 2RS	25	37	7	4360	2600	11000	-	0,022
61806	1000806	30	42	7	4490	2900	15000	18000	0,027
61806 ZZ	1000806 ZZ	30	42	7	4490	2900	15000	18000	0,027
61806 2RS	1000806 2RS	30	42	7	4490	2900	9500	-	0,027
61807	1000807	35	47	7	4750	3200	13000	16000	0,030
61807 ZZ	1000807 ZZ	35	47	7	4750	3200	13000	16000	0,030
61807 2RS	1000807 2RS	35	47	7	4750	3200	8000	-	0,030
61808	1000808	40	52	7	4940	3450	12000	14000	0,034
61808 ZZ	1000808 ZZ	40	52	7	4940	3450	12000	14000	0,034
61808 2RS	1000808 2RS	40	52	7	4940	3450	7500	-	0,034
61809	1000809	45	58	7	6050	4300	11000	12000	0,040
61809 ZZ	1000809 ZZ	45	58	7	6050	4300	11000	12000	0,040
61809 2RS	1000809 2RS	45	58	7	6050	4300	6700	-	0,040
61810	1000810	50	65	7	6240	4750	9600	11000	0,052
61810 ZZ	1000810 ZZ	50	65	7	6240	4750	9600	11000	0,052
61810 2RS	1000810 2RS	50	65	7	6240	4750	6000	-	0,052
61811	1000811	55	72	9	8320	6200	8700	10000	0,083
61811 ZZ	1000811 ZZ	55	72	9	8320	6200	8700	10000	0,083
61811 2RS	1000811 2RS	55	72	9	8320	6200	5300	-	0,083
61812	1000812	60	78	10	8710	6700	8000	9400	0,110
61812 ZZ	1000812 ZZ	60	78	10	8710	6700	8000	9400	0,110
61812 2RS	1000812 2RS	60	78	10	8710	6700	4800	-	0,110
61813	1000813	65	85	10	12000	11500	7400	8700	0,130
61813 ZZ	1000813 ZZ	65	85	10	12000	11500	7400	8700	0,130
61813 2RS	1000813 2RS	65	85	10	12000	11500	4500	-	0,130
61814	1000814	70	90	10	12100	11900	6900	8100	0,140
61814 ZZ	1000814 ZZ	70	90	10	12100	11900	6900	8100	0,140
61814 2RS	1000814 2RS	70	90	10	12100	11900	4300	-	0,140

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	
61815	1000815	75	95	10	12500	10800	6400	7600	0,150
61815 ZZ	1000815 ZZ	75	95	10	12500	10800	6400	7600	0,150
61815 2RS	1000815 2RS	75	95	10	12500	10800	4000	-	0,150
61816	1000816	80	100	10	13300	12400	6000	7100	0,155
61816 ZZ	1000816 ZZ	80	100	10	13300	12400	6000	7100	0,155
61816 2RS	1000816 2RS	80	100	10	13300	12400	3600	-	0,155
61817	1000817	85	110	13	19500	16600	5700	6700	0,270
61817 ZZ	1000817 ZZ	85	110	13	19500	16600	5700	6700	0,270
61817 2RS	1000817 2RS	85	110	13	19500	16600	3400	-	0,270
61818	1000818	90	115	13	19900	17000	5400	6300	0,280
61818 ZZ	1000818 ZZ	90	115	13	19900	17000	5400	6300	0,280
61818 2RS	1000818 2RS	90	115	13	19900	17000	3200	-	0,280
61819	1000819	95	120	13	19900	17600	5000	5900	0,300
61819 ZZ	1000819 ZZ	95	120	13	19900	17600	5000	5900	0,300
61819 2RS	1000819 2RS	95	120	13	19900	17600	3000	-	0,300
61820	1000820	100	125	13	19900	18300	4800	5600	0,310
61820 ZZ	1000820 ZZ	100	125	13	19900	18300	4800	5600	0,310
61820 2RS	1000820 2RS	100	125	13	19900	18300	3000	-	0,310
61821	1000821	105	130	13	20800	19600	4600	5400	0,320
61821 ZZ	1000821 ZZ	105	130	13	20800	19600	4600	5400	0,320
61821 2RS	1000821 2RS	105	130	13	20800	19600	2800	-	0,320
61822	1000822	110	140	16	28100	30700	4300	5100	0,600
61822 ZZ	1000822 ZZ	110	140	16	28100	30700	4300	5100	0,600
61822 2RS	1000822 2RS	110	140	16	28100	30700	2600	-	0,600
61824	1000824	120	150	16	29000	33000	4000	4700	0,650
61824 ZZ	1000824 ZZ	120	150	16	29000	33000	4000	4700	0,650
61824 2RS	1000824 2RS	120	150	16	29000	33000	2400	-	0,650
61826	1000826	130	165	18	39000	43000	3700	4300	0,930
61826 ZZ	1000826 ZZ	130	165	18	39000	43000	3700	4300	0,930
61826 2RS	1000826 2RS	130	165	18	39000	43000	2200	-	0,930
61828	1000828	140	175	18	40500	46500	3400	4000	0,990
61828 ZZ	1000828 ZZ	140	175	18	40500	46500	3400	4000	0,990
61828 2RS	1000828 2RS	140	175	18	40500	46500	2000	-	0,990
61830	1000830	150	190	20	47500	54500	3100	3700	1,200
61830 ZZ	1000830 ZZ	150	190	20	47500	54500	3100	3700	1,200
61832	1000832	160	200	20	49400	64000	2900	3400	1,300
61832 ZZ	1000832 ZZ	160	200	20	49400	64000	2900	3400	1,300
61834	1000834	170	215	22	61800	78000	2700	3200	1,850
61834 ZZ	1000834 ZZ	170	215	22	61800	78000	2700	3200	1,850
61836	1000836	180	225	22	62400	81500	2600	3000	2,000
61836 ZZ	1000836 ZZ	180	225	22	62400	81500	2600	3000	2,000
61838	1000838	190	240	24	73000	88000	2400	2900	2,620
61838 ZZ	1000838ZZ	190	240	24	73000	88000	2400	2900	2,620
61840	1000840	200	250	24	76100	102000	2300	2700	2,700
61844	1000844	220	270	24	78000	110000	2100	2400	3,000
61848	1000848	240	300	28	98500	127000	1900	2200	4,600
61852	1000852	260	320	28	111000	163000	1700	2000	4,800
61856	1000856	280	350	33	138000	200000	1600	1900	7,400
61860	1000860	300	380	38	162000	210000	1500	1700	10,500
61864	1000864	320	400	38	168000	228000	1400	1600	10,900
61868	1000868	340	420	38	170000	236000	1300	1500	11,500
61872	1000872	360	440	38	187000	258000	1200	1400	12,300
61876	1000876	380	480	46	231000	340000	1100	1300	19,700
61880	1000880	400	500	46	235000	350000	1100	1200	20,600
61884	1000884	420	520	46	260000	405000	1000	1200	21,600
61888	1000888	440	540	46	264000	420000	880	1000	22,500
61892	1000892	460	580	56	315000	515000	900	1100	34,800
61896	1000896	480	600	56	325000	600000	850	1000	36,500