



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	
6419 ZZ	80419	95	240	55	188000	153000	3000	3500	11,000
6419 2RS	180419	95	240	55	188000	153000	1100	-	11,000
6420	420	100	250	58	206000	175000	2900	3400	12,900
6420 ZZ	80420	100	250	58	206000	175000	2900	3400	12,900
6420 2RS	180420	100	250	58	206000	175000	900	-	12,900
6421	421	105	260	60	222000	179000	2700	3200	16,800
6422	422	110	280	65	247000	227000	2600	3000	21,300
6424	424	120	310	72	291000	287000	2300	2800	29,000
6426	426	130	340	78	300000	298000	2200	2500	38,000
62200 2RS	180500	10	30	14	5100	2400	17000	-	0,045
62201 2RS	180501	12	32	14	6900	3100	15000	-	0,048
62202 2RS	180502	15	35	14	7800	3750	13000	-	0,054
62203 2RS	180503	17	40	16	9500	4750	12000	-	0,083
62204 2RS	180504	20	47	18	12700	6550	10000	-	0,130
62205 2RS	180505	25	52	18	14000	7800	8500	-	0,150
62206 2RS	180506	30	62	20	16500	11200	7500	-	0,243
62207 2RS	180507	35	72	23	25500	15300	6300	-	0,388
62208 2RS	180508	40	80	23	30700	19000	5600	-	0,471
62209 2RS	180509	45	85	23	33200	21600	5000	-	0,523
62210 2RS	180510	50	90	23	35100	23200	4800	-	0,550
62211 2RS	180511	55	100	25	43600	29000	4300	-	0,700
62212 2RS	180512	60	110	28	47500	32500	4000	-	0,970
62213 2RS	180513	65	120	31	55900	40500	3600	-	1,250
62214 2RS	180514	70	125	31	60500	45000	3400	-	1,300
62300 2RS	180600	10	35	17	8000	3400	15000	-	0,060
62301 2RS	180601	12	37	17	9750	4150	14000	-	0,070
62302 2RS	180602	15	42	17	11400	5400	12000	-	0,110
62303 2RS	180603	17	47	19	13500	6550	11000	-	0,150
62304 2RS	180604	20	52	21	15900	7800	9500	-	0,207
62305 2RS	180605	25	62	24	22500	11600	7500	-	0,326
62306 2RS	180606	30	72	27	28100	16000	6300	-	0,493
62307 2RS	180607	35	80	31	33200	19000	6000	-	0,680
62308 2RS	180608	40	90	33	41000	24000	5000	-	0,890
62309 2RS	180609	45	100	36	52700	31500	4500	-	1,190
62310 2RS	180610	50	110	40	61800	38000	4300	-	1,500
62311 2RS	180611	55	120	43	71500	45000	3800	-	1,950
62312 2RS	180612	60	130	46	81900	52000	3400	-	2,500
62313 2RS	180613	65	140	48	92300	60000	3200	-	3,000
62314 2RS	180614	70	150	51	104000	68000	3000	-	3,550