



YUANHE

Deep groove ball bearings



Yuanhe Transmission (Zhenjiang) Co., Ltd.

1、Introduce

Deep groove ball bearings are the most commonly used type of rolling bearings. The deep groove raceway and the excellent tightness between the raceway and the steel ball make the deep groove ball bearing in addition to withstand high speed conditions. In addition to radial load, it can also bear bidirectional axial load.

The friction coefficient of deep groove ball bearings is very small, the limit speed is very high, and the products of its sealing structure can not need relubrication and maintenance.

In addition to the basic types, deep groove ball bearings have the following deformation structures: Deep groove ball bearings with dust caps Deep groove ball bearings with rubber seals Deep groove ball bearings with retaining grooves Deep groove ball bearings with ball filling openings Groove ball bearings, double row deep groove ball bearings.

Deep groove ball bearing with dust cover

The function of the dust cover is to prevent the leakage of grease in the bearing and the intrusion of external foreign matter, and it is divided into two types: single-sided and double-sided.

Bearings with dust cover are difficult to be lubricated separately, it is inconvenient to install the lubricating oil circuit and check the lubrication condition, and the low friction torque and high temperature are required.

The grease filling amount of each set of bearings is usually $1/4 \sim 1/3$ of the effective space of the bearing cavity, and the amount of grease filling can also be increased or decreased according to user requirements.

The injected grease can usually keep the bearing running in the environment of $-40^{\circ}\text{C} \sim 120^{\circ}\text{C}$. If users have higher requirements for bearings, Yuanhe will provide satisfactory solutions.

Bearings with dust caps are greased and can work effectively for a long time, and do not need to be greased during use.

Deep groove ball bearings with dust cover are mostly used at both ends of rotors of small and medium generators and motors, automobiles, tractors, air conditioners, fans, and occasions with special requirements for bearing noise and vibration.

Deep groove ball bearings with rubber seals

For deep groove ball bearings with sealing rings, there are contact and non-contact sealing forms, as well as single-sided and double-sided. The contact seals can be designed as light-contact, medium-contact, and heavy-contact according to different parts of use.

Bearings with seals have basically the same performance, grease filling and application as deep groove ball bearings with shields.

The difference is that the bearing with dust cover has a large gap between the dust cover and the inner ring, while the gap between the sealing ring and the inner ring of the non-contact sealed ball bearing is very small, and the sealing lip of the contact sealing ring bearing. There is no gap with the inner ring, the sealing effect is good, but the friction is increased.

Where low noise is required, 60 and 62 series of small size deep groove ball bearings are often used. Whether open or closed bearings (with dust cover or with sealing ring), low noise and low vibration can be requested when ordering.

Deep groove ball bearings with snap grooves and snap rings

The structure with retaining grooves, retaining rings and flanges on the outer ring can realize axial positioning and simplifies the installation structure of the housing.

Deep groove ball bearings with snap grooves and snap rings are mostly used in working parts such as automobiles and tractors.

Deep groove ball bearings with ball notches

The main dimensions of deep groove ball bearings with ball-loading notches are the same as those of the 62 or 63 series of deep groove ball bearings. Both the inner and outer rings have ball gaps, so the number of steel balls is more than that of ordinary deep groove ball bearings, and the rated dynamic load is 20% to 35% larger.

This type of bearing is not suitable for occasions with large axial load due to the notch in which the ball is installed. When used for combined loads dominated by radial loads, the condition of radial equivalent dynamic load $P_r < 0.5C_{or}$ should be satisfied.

Double row deep groove ball bearings

Double row deep groove ball bearings are not included in this document, please contact us if necessary.

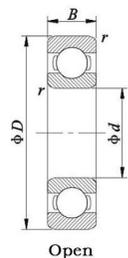
2. Sealed

Performance comparison of sealed deep groove ball bearings

Type characteristic	with dust cover	with sealing ring		
	Contactless	Contactless	contact	light-contact
	2Z	2RZ	2RS	2RS
friction torque	little	little	Big	smaller
high performance	better	Good	Restricted due to contact	better
Grease tightness	better	Better than ZZ type	Better than 2RZ at lower revs	very good
Dustproof	better	Better than ZZ type, can also be used in dusty occasions	Better than ZZ type, can also be used in dusty occasions	very good
Waterproof	not too good	Better than ZZ type, worse than 2RS type	very good	Good
Operating temperature range		-30°C~110°C	-30°C~110°C	-30°C~110°C

Note: The operating temperature range of standard bearings is shown here, and the range of use can be expanded by changing the type of grease and the material of the sealing ring, please contact us.

Deep groove ball bearings



Open



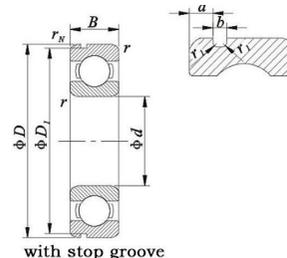
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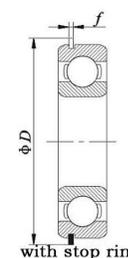
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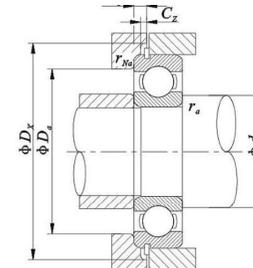
RS



with stop groove



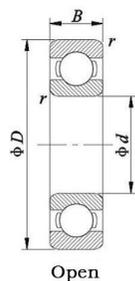
with stop ring



d 10~17 mm

Main Dimensions (mm)				Basic Rated Load (kN)		Limit Speed (r/min)				Nominal Model	Snap Ring Groove Dimensions (mm)					Stop Ring Size (mm)		Installation related dimensions (mm)						Reference Quality (kg)	
d	D	B	r (Min)	C _r	C _{0r}	Grease		Oil			a	b	D _i	r ₀	r _N	D _s	f	d _a	D _s	r _s	D _x	C _y	C _z		
						contactless	contact	light contact	open	Max	Min	Max	Max	Min	Max	Max	Min	Max	Max	Max	Min	Max	Max		
10	15	3	0.1	0.86	0.44	10,000	—	—	12,000	61700	—	—	—	—	—	—	10.8	—	14.2	0.1	—	—	—	0.002	
	19	5	0.3	1.83	0.93	32,000	24,000	—	38,000	61800	—	—	—	—	—	—	12	12.5	17	0.3	—	—	—	0.005	
	22	6	0.3	2.70	1.27	30,000	21,000	—	36,000	61900	1.05	0.8	20.8	0.2	0.3	24.8	0.7	12	13	20	0.3	25.5	1.5	0.7	0.009
	26	8	0.3	4.55	1.97	29,000	21,000	25,000	34,000	6000	—	—	—	—	—	—	—	12	13.5	24	0.3	—	—	—	0.018
	30	9	0.6	5.10	2.39	25,000	18,000	21,000	30,000	6200	2.06	1.35	28.17	0.4	0.5	34.7	1.12	14	16	26	0.6	35.5	2.9	1.2	0.032
	35	11	0.6	8.10	3.45	23,000	16,000	20,000	27,000	6300	2.06	1.35	33.17	0.4	0.5	39.7	1.12	14	17	31	0.6	40.5	2.9	1.2	0.053
12	18	4	0.2	1.10	0.70	8,300	—	—	9,500	61701	—	—	—	—	—	—	13.6	13.8	16.4	0.2	—	—	—	0.002	
	21	5	0.3	1.92	1.04	29,000	20,000	—	35,000	61801	—	—	—	—	—	—	14	14.5	19	0.3	—	—	—	0.006	
	24	6	0.3	2.89	1.46	27,000	19,000	—	32,000	61901	1.05	0.8	22.8	0.2	0.3	26.8	0.7	14	15	22	0.3	27.5	1.5	0.7	0.011
	28	7	0.3	5.10	2.37	26,000	—	—	30,000	16001	—	—	—	—	—	—	—	14	—	26	0.3	—	—	—	0.019
	28	8	0.3	5.10	2.37	26,000	18,000	21,000	30,000	6001	—	—	—	—	—	—	—	14	16	26	0.3	—	—	—	0.022
	32	10	0.6	6.82	3.06	22,000	16,000	20,000	26,000	6201	2.06	1.35	30.15	0.4	0.5	36.7	1.12	16	17	28	0.6	37.5	2.9	1.2	0.037
37	12	1	9.70	4.20	20,000	15,000	19,000	24,000	6301	2.06	1.35	34.77	0.4	0.5	41.3	1.12	17	18.5	32	1	42	2.9	1.2	0.060	
15	21	4	0.2	0.94	0.58	6,600	—	—	7,600	61702	—	—	—	—	—	—	16.6	16.8	19.4	0.2	—	—	—	0.003	
	24	5	0.3	2.10	1.25	26,000	17,000	—	31,000	61802	—	—	—	—	—	—	17	17.5	22	0.3	—	—	—	0.007	
	28	7	0.3	4.30	2.30	24,000	16,000	—	28,000	61902	1.3	0.95	26.7	0.25	0.3	30.8	0.85	17	17.5	26	0.3	31.5	1.9	0.9	0.016
	32	8	0.3	5.60	2.84	24,000	—	—	26,000	16002	—	—	—	—	—	—	—	17	—	30	0.3	—	—	—	0.025
	32	9	0.3	5.60	2.84	22,000	15,000	18,000	26,000	6002	2.06	1.35	30.15	0.4	0.3	36.7	1.12	17	19	30	0.3	37.5	2.9	1.2	0.030
	35	11	0.6	7.60	3.70	19,000	15,000	18,000	23,000	6202	2.06	1.35	33.17	0.4	0.5	39.7	1.12	19	20	31	0.6	40.5	2.9	1.2	0.045
42	13	1	11.40	5.43	17,000	12,000	15,000	21,000	6302	2.06	1.35	39.75	0.4	0.5	46.3	1.12	20	23	37	1	47	2.9	1.2	0.082	
17	23	4	0.2	1.00	0.66	5,000	—	—	6,700	61703	—	—	—	—	—	—	18.6	18.8	21.4	0.2	—	—	—	0.003	
	26	5	0.3	2.20	1.50	24,000	15,000	—	28,000	61803	—	—	—	—	—	—	19	19.5	24	0.3	—	—	—	0.008	
	30	7	0.3	4.60	2.60	22,000	14,000	—	26,000	61903	1.3	0.95	28.7	0.25	0.3	32.8	0.85	19	20	28	0.3	33.5	1.9	0.9	0.018
	35	8	0.3	6.00	3.25	20,000	—	—	24,000	16003	—	—	—	—	—	—	—	19	—	33	0.3	—	—	0.9	0.032
	35	10	0.3	6.00	3.25	20,000	14,000	16,000	24,000	6003	2.06	1.35	33.17	0.4	0.3	39.7	1.12	19	21	33	0.3	40.5	2.9	1.2	0.039
	40	12	0.6	9.57	4.80	18,000	12,000	15,000	21,000	6203	2.06	1.35	38.1	0.4	0.5	44.6	1.12	21	23	36	0.6	45.5	2.9	1.2	0.066
47	14	1	13.60	6.60	16,000	11,000	14,000	19,000	6303	2.46	1.35	44.6	0.4	0.5	52.7	1.12	22	25	42	1	53.5	3.3	1.2	0.115	
62	17	1.1	28.80	10.60	14,000	—	—	16,000	6403	—	—	—	—	—	—	—	23.5	—	55.5	1	—	—	—	0.270	

Deep groove ball bearings



Open



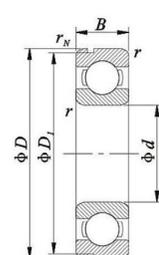
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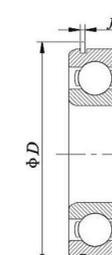
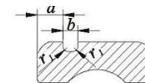
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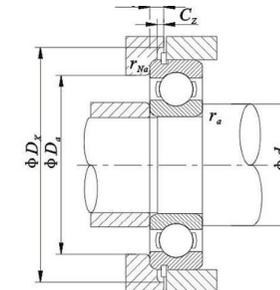
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with stop groove



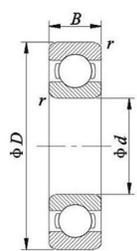
with stop ring



d 20~30 mm

Main Dimensions (mm)				Basic Rated Load (kN)		Limit Speed (r/min)				Nominal Model	Snap Ring Groove Dimensions (mm)					Stop Ring Size (mm)		Installation related dimensions (mm)						Reference Quality (kg)		
d	D	B	r (Min)	C _r	C _{0r}	Grease		Oil			a	b	D _i	r _o	r _N	D _s	f	d _a	D _a	r _a	D _x	C _y	C _z			
						contactless	contact	light contact	open	Max	Min	Max	Max	Min	Max	Max	Min	Max	Max	Max	Max	Max	Max			
20	27	4	0.2	1.04	0.73	5,000	—	—	5,700	6704	—	—	—	—	—	—	—	21.6	22.3	25.4	0.2	—	—	—	0.005	
	32	7	0.3	3.50	2.20	21,000	13,000	—	25,000	61804	1.3	0.95	30.7	0.25	0.3	34.8	0.85	22	22.5	30	0.3	35.5	1.9	0.9	0.019	
	37	9	0.3	6.40	3.70	19,000	12,000	—	23,000	61904	1.7	0.95	35.7	0.25	0.3	39.8	0.85	22	24	35	0.3	40.5	2.3	0.9	0.036	
	42	8	0.3	6.30	3.80	18,000	—	—	21,000	16004	—	—	—	—	—	—	—	22	—	40	0.3	—	—	—	0.051	
	42	12	0.6	9.38	5.03	18,000	11,000	13,000	21,000	6004	2.06	1.35	39.75	0.4	0.5	46.3	1.12	24	26	38	0.6	47	2.9	1.2	0.069	
	47	14	1	12.80	6.60	16,000	10,000	12,000	18,000	6204	2.46	1.35	44.6	0.4	0.5	52.7	1.12	25	26	42	1	53.5	3.3	1.2	0.106	
	52	15	1.1	15.90	7.80	14,000	10,000	12,000	17,000	6304	2.46	1.35	49.73	0.4	0.5	57.9	1.12	26.5	28.5	45.5	1	58.5	3.3	1.2	0.144	
	72	19	1.1	28.50	13.90	12,000	—	—	14,000	6404	—	—	—	—	—	—	—	26.5	—	65.5	1	—	—	—	0.400	
	22	44	12	0.6	9.40	5.05	17,000	10,000	13,000	20,000	60/22	2.06	1.35	41.75	0.4	0.5	48.3	1.12	26	26.5	40	0.6	49	2.9	1.2	0.074
		50	14	1	12.90	6.80	14,000	9,700	12,000	17,000	62/22	2.46	1.35	47.6	0.4	0.5	55.7	1.12	27	29.5	45	1	56.5	3.3	1.2	0.117
56		16	1.1	18.40	9.25	13,000	9,200	11,000	15,000	63/22	2.46	1.35	53.6	0.4	0.5	61.7	1.12	28.5	31	49.5	1	62.5	3.3	1.2	0.176	
25	32	4	0.2	1.89	1.50	4,000	—	—	4,600	6705	—	—	—	—	—	—	—	26.6	27.3	30.4	0.2	—	—	—	0.005	
	37	7	0.3	4.30	2.95	18,000	10,000	—	21,000	61805	1.3	0.95	35.7	0.25	0.3	39.8	0.85	27	28	35	0.3	40.5	1.9	0.9	0.022	
	42	9	0.3	7.02	4.53	16,000	9,800	—	19,000	61905	1.7	0.95	40.7	0.25	0.3	44.8	0.85	27	29	40	0.3	45.5	2.3	0.9	0.042	
	47	8	0.3	7.00	4.60	15,000	—	—	18,000	16005	—	—	—	—	—	—	—	27	—	45	0.3	—	—	—	0.060	
	47	12	0.6	10.07	5.82	15,000	9,400	11,000	18,000	6005	2.06	1.35	44.6	0.4	0.5	52.7	1.12	29	30	43	0.6	53.5	2.9	1.2	0.080	
	52	15	1	14.00	7.88	13,900	8,900	11,000	15,000	6205	2.46	1.35	49.73	0.4	0.5	57.9	1.12	30	32	47	1	58.5	3.3	1.2	0.128	
	62	17	1.1	20.60	11.20	12,000	8,100	9,700	14,000	6305	3.28	1.9	59.61	0.6	0.5	67.7	1.7	31.5	35	55.5	1	68.5	4.6	1.7	0.232	
	80	21	1.5	34.50	17.50	11,000	—	—	12,000	6405	—	—	—	—	—	—	—	33	—	72	1.5	—	—	—	0.530	
28	52	12	0.6	12.50	7.40	14,000	8,400	10,000	16,000	60/28	2.06	1.35	49.73	0.4	0.5	57.9	1.12	32	34	48	0.6	58.5	2.9	1.2	0.098	
	58	16	1	17.90	9.75	12,000	8,100	9,700	14,000	62/28	2.46	1.35	55.6	0.4	0.5	63.7	1.12	33	35.5	53	1	64.5	3.3	1.2	0.171	
	68	18	1.1	26.70	14.00	11,000	7,400	8,900	13,000	63/28	3.28	1.9	64.82	0.6	0.5	74.6	1.7	34.5	38.5	61.5	1	76	4.6	1.7	0.284	
30	37	4	0.2	1.14	0.95	3,300	—	—	3,800	6706	—	—	—	—	—	—	—	31.6	32.3	35.4	0.2	—	—	—	0.006	
	42	7	0.3	4.96	3.62	15,000	8,800	—	18,000	61806	1.3	0.95	40.7	0.25	0.3	44.8	0.85	32	33	40	0.3	45.5	1.9	0.9	0.026	
	47	9	0.3	7.24	5.00	14,000	8,400	—	17,000	61906	1.7	0.95	45.7	0.25	0.3	49.8	0.85	32	34	45	0.3	50.5	2.3	0.9	0.048	
	55	9	0.3	9.20	6.30	13,000	—	—	15,000	16006	—	—	—	—	—	—	—	32	—	53	0.3	—	—	—	0.091	
	55	13	1	13.20	8.27	13,000	7,700	9,200	15,000	6006	2.08	1.35	52.6	0.4	0.5	60.7	1.12	35	37	50	1	61.5	2.9	1.2	0.116	
	62	16	1	19.50	11.30	11,000	7,300	8,800	13,000	6206	3.28	1.9	59.61	0.6	0.5	67.7	1.7	35	39	57	1	68.5	4.6	1.7	0.199	

Deep groove ball bearings



Open



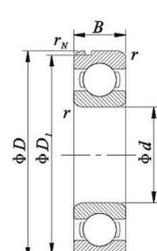
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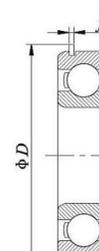
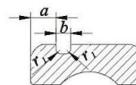
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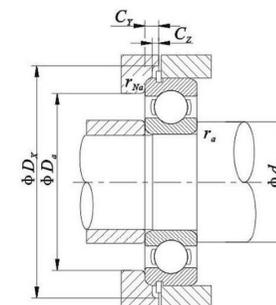
RS



with stop groove



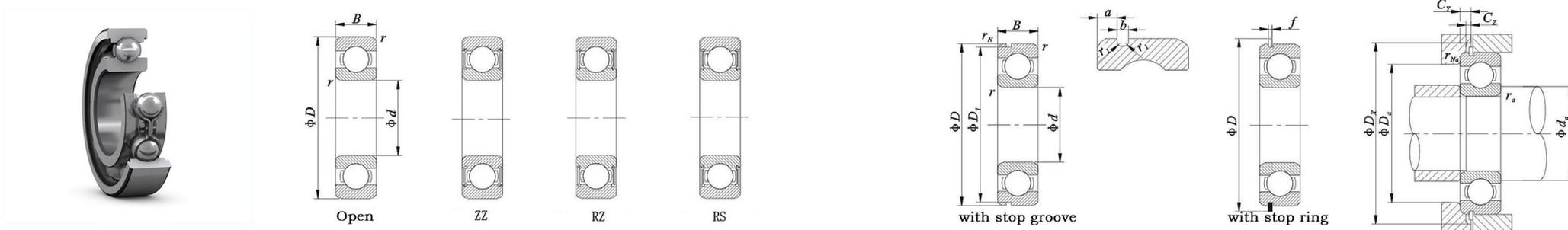
with stop ring



d 30~50 mm

Main Dimensions (mm)	Basic Rated Load (kN)		Limit Speed (r/min)				Nominal Model	Snap Ring Groove Dimensions (mm)					Stop Ring Size (mm)		Installation related dimensions (mm)						Reference Quality (kg)				
			Grease		Oil			a	b	D ₁	r _o	r _N	D ₂	f	d _a	D _a	r _a	D _z	C _y	C _z					
d D B (Min)	C _r	C _{0r}	contactless	contact	light contact	open	Max	Min	Max	Max	Min	Max	Max	Min	Max	Max	Min	Max	Max						
30	72	19	1.1	26.70	15.00	10,000	6,600	7,900	12,000	6306	3.28	1.9	68.81	0.6	0.5	78.6	1.7	36.5	43	65.5	1	80	4.6	1.7	0.360
	90	23	1.5	43.50	23.90	8,800	—	—	10,000	6406	—	—	—	—	—	—	—	38	—	82	1.5	—	—	—	0.735
32	58	13	1	11.80	8.05	12,000	7,200	8,700	15,000	60/32	2.08	1.35	55.6	0.4	0.5	63.7	1.12	37	39	53	1	64.5	2.9	1.2	0.129
	65	17	1	20.70	11.60	11,000	7,100	8,400	12,000	62/32	3.28	1.9	62.6	0.6	0.5	70.7	1.7	37	40	60	1	71.5	4.6	1.7	0.226
	75	20	1.1	29.80	16.90	9,500	6,500	7,700	11,000	63/32	3.28	1.9	71.83	0.6	0.5	81.6	1.7	38.5	43.5	68.5	1	83	4.6	1.7	0.382
35	47	7	0.3	4.20	3.50	13,000	7,600	—	16,000	61807	1.3	0.95	45.7	0.25	0.3	49.8	0.85	37	38	45	0.3	50.5	1.9	0.9	0.029
	55	10	0.6	9.60	6.80	12,000	7,100	—	15,000	61907	1.7	0.95	53.7	0.25	0.5	57.8	0.85	39	40	51	0.6	58.5	2.3	0.9	0.074
	62	9	0.3	12.20	8.80	12,000	—	—	14,000	16007	—	—	—	—	—	—	—	37	—	60	0.3	—	—	—	0.110
	62	14	1	15.90	10.30	12,000	6,800	8,200	14,000	6007	2.08	1.9	59.61	0.6	0.5	67.7	1.7	40	42	57	1	68.5	3.4	1.7	0.155
	72	17	1.1	25.70	15.30	9,800	6,300	7,600	11,000	6207	3.28	1.9	68.81	0.6	0.5	78.6	1.7	41.5	45	65.5	1	80	4.6	1.7	0.288
	80	21	1.5	33.50	19.20	8,800	6,000	7,300	10,000	6307	3.28	1.9	76.81	0.6	0.5	86.6	1.7	43	47	72	1.5	88	4.6	1.7	0.457
	100	25	1.5	55.00	31.00	7,800	—	—	9,100	6407	—	—	—	—	—	—	—	43	—	92	1.5	—	—	—	0.952
40	52	7	0.3	5.07	4.37	12,000	6,700	—	14,000	61808	1.3	0.95	50.7	0.25	0.3	54.8	0.85	42	43	50	0.3	55.5	1.9	0.9	0.033
	62	12	0.6	13.70	9.90	11,000	6,300	—	13,000	61908	1.7	0.95	60.7	0.25	0.5	64.8	0.85	44	45	58	0.6	65.5	2.3	0.9	0.110
	68	9	0.3	12.60	9.65	10,000	—	—	12,000	16008	1.7	—	—	—	—	—	—	42	—	66	0.3	—	—	—	0.125
	68	15	1	16.80	11.50	10,000	6,100	7,300	12,000	6008	2.49	1.9	64.82	0.6	0.5	74.6	1.7	45	47	63	1	76	3.8	1.7	0.190
	80	18	1.1	30.80	19.80	8,700	5,600	6,700	10,000	6208	3.28	1.9	76.81	0.6	0.5	86.6	1.7	46.5	51	73.5	1	88	4.6	1.7	0.366
	90	23	1.5	40.70	24.00	7,800	5,300	6,400	9,200	6308	3.28	2.7	86.79	0.6	0.5	96.5	2.46	48	54	82	1.5	98	5.4	2.5	0.630
110	27	2	52.50	30.2	7,000	—	—	8,200	6408	—	—	—	—	—	—	—	49	—	101	2	—	—	—	1.230	
45	58	7	0.3	5.35	4.95	11,000	5,900	—	12,000	61809	1.3	0.95	56.7	0.25	0.3	60.8	0.85	47	48	56	0.3	61.5	1.9	0.9	0.038
	68	12	0.6	14.10	10.90	9,800	5,600	—	12,000	61909	1.7	0.95	66.7	0.25	0.5	70.8	0.85	49	51	64	0.6	72	2.3	0.9	0.128
	75	10	0.6	15.60	12.20	9,200	—	—	11,000	16009	—	—	—	—	—	—	—	49	—	71	0.6	—	—	—	0.171
	75	16	1	19.90	14.00	9,200	5,400	6,500	11,000	6009	2.49	1.9	71.83	0.6	0.5	81.6	1.7	50	52.5	70	1	83	3.8	1.7	0.237
	85	19	1.1	31.20	20.30	7,800	5,200	6,200	9,200	6209	3.28	1.9	81.81	0.6	0.5	91.6	1.7	51.5	55.5	78.5	1	93	4.6	1.7	0.398
	100	25	1.5	52.80	31.80	7,000	4,700	5,600	8,200	6309	3.28	2.7	96.8	0.6	0.5	106.5	2.46	53	61.5	92	1.5	108	5.4	2.5	0.814
120	29	2	77.40	45.06	6,300	—	—	7,400	6409	—	—	—	—	—	—	—	54	—	111	2	—	—	—	1.530	
50	65	7	0.3	6.58	6.08	9,600	5,300	—	11,000	61810	1.3	0.95	63.7	0.25	0.3	67.8	0.85	52	54	63	0.3	68.5	1.9	0.9	0.050

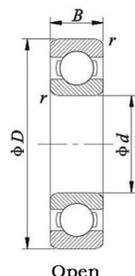
Deep groove ball bearings



d 50~60 mm

Main Dimensions (mm)	Basic Rated Load (kN)		Limit Speed (r/min)				Nominal Model	Snap Ring Groove Dimensions (mm)					Stop Ring Size (mm)		Installation related dimensions (mm)						Reference Quality (kg)				
								Grease		Oil		a Max	b Min	D ₁ Max	r _o Max	r _N Min	D ₂ Max	f Max	d _a Min	D _a Max		r _a Max	D _s Min	C _y Max	C _z Max
								contactless	contact	light contact	open														
50	72	12	0.6	16.10	13.10	9,000	5,300	—	11,000	61910	1.7	0.95	70.7	0.25	0.5	74.8	0.85	54	55.5	68	0.6	76	2.3	0.9	0.135
	80	10	0.6	16.10	13.10	8,500	—	—	10,000	16010	—	—	—	—	—	—	—	54	—	76	0.6	—	—	—	0.175
	80	16	1	21.80	16.60	8,500	4,800	6,000	10,000	6010	2.49	1.9	76.81	0.6	0.5	86.6	1.7	55	57.5	75	1	88	3.8	1.7	0.261
	90	20	1.1	35.00	23.20	7,100	4,700	5,700	8,300	6210	3.28	2.7	86.79	0.6	0.5	96.5	2.46	56.5	60	83.5	1	98	5.4	2.5	0.454
	110	27	2	62.00	38.50	6,400	4,200	5,000	7,500	6310	3.28	2.7	106.81	0.6	0.5	116.6	2.46	59	68.5	101	2	118	5.4	2.5	1.060
	130	31	2.1	83.00	49.50	5,700	—	—	6,700	6410	—	—	—	—	—	—	—	61	—	119	2	—	—	—	1.880
55	72	9	0.3	9.10	8.50	8,700	4,800	—	10,000	61811	1.7	0.95	70.7	0.25	0.3	74.8	0.85	57	59	70	0.3	76	2.3	0.9	0.083
	80	13	1	15.96	13.25	8,200	4,300	—	9,600	61911	2.1	1.3	77.9	0.4	0.5	84.4	0.12	60	61.5	75	1	86	2.9	1.2	0.180
	90	11	0.6	19.40	16.30	7,700	—	—	9,000	16011	—	—	—	—	—	—	—	59	—	86	0.6	—	—	—	0.258
	90	18	1.1	30.90	22.40	7,700	4,500	—	9,000	6011	2.87	2.7	86.79	0.6	0.5	96.5	2.46	61.5	64	83.5	1	98	5	2.5	0.388
	100	21	1.5	43.40	29.20	6,400	4,300	—	7,600	6211	3.28	2.7	96.8	0.6	0.5	106.5	2.46	63	67	92	1.5	108	5.4	2.5	0.601
	120	29	2	71.50	44.60	5,800	3,900	—	6,800	6311	4.06	3.1	115.21	0.6	0.5	129.7	2.82	64	74	111	2	131.5	6.5	2.9	1.370
140	33	2.1	100.70	62.50	5,200	—	—	6,100	6411	—	—	—	—	—	—	—	66	—	129	2	—	—	—	2.290	
60	78	10	0.3	9.10	8.70	8,000	4,400	—	9,400	61812	1.7	1.3	76.2	0.4	0.3	82.7	1.12	62	64.5	76	0.3	84	2.5	1.2	0.106
	85	13	1	28.70	17.20	7,600	4,300	—	8,900	61912	2.1	1.3	82.9	0.4	0.5	89.4	1.12	65	66.5	80	1	91	2.9	1.2	0.193
	95	11	0.6	19.90	17.50	7,000	—	—	8,300	16012	—	—	—	—	—	—	—	64	—	91	0.6	—	—	—	0.283
	95	18	1.1	30.70	22.70	7,000	4,100	—	8,300	6012	2.87	2.7	91.82	0.6	0.5	101.6	2.46	66.5	69	88.5	1	103	5	2.5	0.414
	110	22	1.5	52.40	35.90	6,000	3,800	—	7,000	6212	3.28	2.7	106.81	0.6	0.5	116.6	2.46	68	75	102	1.5	118	5.4	2.5	0.783
	130	31	2.1	81.80	51.80	5,400	3,600	—	6,300	6312	4.06	3.1	125.22	0.6	0.5	139.7	2.82	71	80.5	119	2	141.5	6.5	2.9	1.730
150	35	2.1	102.00	64.50	4,800	—	—	5,700	6412	—	—	—	—	—	—	—	71	—	139	2	—	—	—	2.770	

Deep groove ball bearings



Open



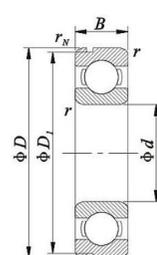
ZZ



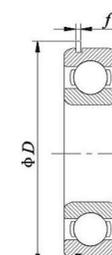
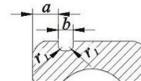
RZ



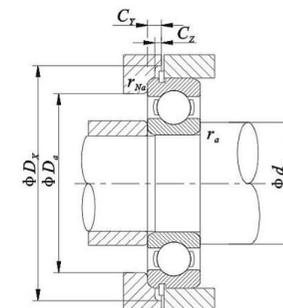
RS



with stop groove



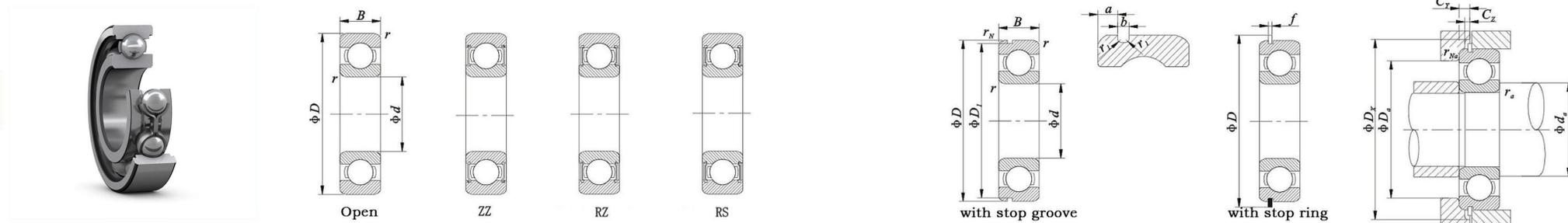
with stop ring



d 65~80 mm

Main Dimensions (mm)				Basic Rated Load (kN)		Limit Speed (r/min)				Nominal Model	Snap Ring Groove Dimensions (mm)					Stop Ring Size (mm)		Installation related dimensions (mm)						Reference Quality (kg)
d	D	B	r (Min)	C _r	C _{0r}	Grease		Oil			a	b	D ₁	r _o	r _N	D ₂	f	d _a	D _a	r _a	D _x	C _y	C _z	
						contactless	contact	light contact	open	Max	Min	Max	Max	Min	Max	Max	Min	Max	Max	Max	Max	Max	Max	
65	85	10	0.6	11.90	11.50	7400	4100	8700		1.7	1.3	82.9	0.4	0.5	89.4	1.12	69	70	81	0.6	91	2.5	1.2	0.128
	90	13	1	17.40	16.10	7000	4000	8200		2.1	1.3	87.9	0.4	0.5	94.4	1.12	70	71.5	85	1	96	2.9	1.2	0.206
	100	11	0.6	20.50	18.70	6500	—	7700		—	—	—	—	—	—	—	69	—	96	0.6	—	—	—	0.307
	100	18	1.1	29.20	23.50	6500	3900	7700		2.87	2.7	96.8	0.6	0.5	106.5	2.46	71.5	74	93.5	1	108	5	2.5	0.421
	120	23	1.5	57.20	40.00	5500	3600	6500		4.06	3.1	115.21	0.6	0.5	129.7	2.82	73	80.5	112	1.5	131.5	6.5	2.9	0.990
	140	33	2.1	92.70	59.80	4900	3300	5800		4.9	3.1	135.23	0.6	0.5	149.7	2.82	76	86	129	2	152	7.3	2.9	2.080
160	37	2.1	111.00	72.50	4400	—	5200		—	—	—	—	—	—	—	76	—	149	2	—	—	—	3.300	
70	90	10	0.6	12.20	11.90	6900	3800	8100		1.7	1.3	87.9	0.4	0.5	94.4	1.12	74	75.5	86	0.6	96	2.5	1.2	0.137
	100	16	1	23.70	21.10	6500	3700	7700		2.5	1.3	97.9	0.4	0.5	104.4	1.12	75	77.5	95	1	106	3.3	1.2	0.334
	110	13	0.6	26.80	23.60	6100	—	7100		—	—	—	—	—	—	—	74	—	106	0.6	—	—	—	0.441
	110	20	1.1	38.60	30.40	6100	3600	7100		2.87	2.7	106.81	0.6	0.5	116.6	2.46	76.5	80.5	103.5	1	118	5	2.5	0.604
	125	24	1.5	62.20	44.00	5100	3400	6000		4.06	3.1	120.22	0.6	0.5	134.7	2.82	78	85	117	1.5	136.5	6.5	2.9	1.070
	150	35	2.1	104.10	68.00	4600	3100	5400		4.9	3.1	145.24	0.6	0.5	159.7	2.82	81	92.5	139	2	162	7.3	2.9	2.520
180	42	3	128.00	89.50	4100	—	4800		—	—	—	—	—	—	—	83	—	167	2.5	—	—	—	4.830	
75	95	10	0.6	12.50	12.80	6400	3600	7600		1.7	1.3	92.9	0.4	0.5	99.4	1.12	79	80	91	0.6	101	2.5	1.2	0.145
	105	16	1	24.30	22.50	6100	3500	7200		2.5	1.3	102.6	0.4	0.5	110.7	1.12	80	82.5	100	1	112	3.3	1.2	0.353
	115	13	0.6	27.60	25.30	5700	—	6700		—	—	—	—	—	—	—	79	—	111	0.6	—	—	—	0.464
	115	20	1.1	40.10	33.10	5700	3300	6700		2.87	2.7	111.81	0.6	0.5	121.6	2.46	81.5	85.5	108.5	1	123	5	2.5	0.649
	130	25	1.5	66.20	49.30	4800	3200	5600		4.06	3.1	125.22	0.6	0.5	139.7	2.82	83	90.5	122	1.5	141.5	6.5	2.9	1.180
	160	37	2.1	114.00	76.50	4300	2900	5000		4.9	3.1	155.22	0.6	0.5	169.7	2.82	86	99	149	2	172	7.3	2.9	3.020
190	45	3	153.20	113.70	3800	—	4500		—	—	—	—	—	—	—	88	—	177	2.5	—	—	—	5.720	
80	100	10	0.6	12.60	12.70	6000	3400	7100		1.7	1.3	97.9	0.4	0.5	104.4	1.12	84	85	96	0.6	106	2.5	1.2	0.154
	110	16	1	25.00	23.90	5700	3200	6700		2.5	1.3	107.6	0.4	0.5	115.7	1.12	85	88	105	1	117	3.3	1.2	0.373
	125	14	0.6	31.90	29.60	5300	—	6200		—	—	—	—	—	—	—	84	—	121	0.6	—	—	—	0.597
	125	22	1.1	47.50	39.80	5300	3100	6200		2.87	3.1	120.22	0.6	0.5	134.7	2.82	86.5	91.5	118.5	1	136.5	5.3	2.9	0.854
	140	26	2	72.70	53.00	4500	3000	5300		4.9	3.1	135.23	0.6	0.5	149.7	2.82	89	95.5	131	2	152	7.3	2.9	1.400
	170	39	2.1	90.40	89.60	4000	2700	4700		5.69	3.5	163.65	0.6	0.5	182.9	3.1	91	105	159	2	185	8.4	3.1	3.590
200	48	3	163.20	124.50	3600	—	4200		—	—	—	—	—	—	—	93	—	187	2.5	—	—	—	6.760	

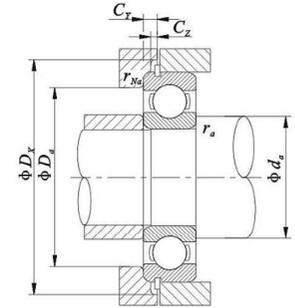
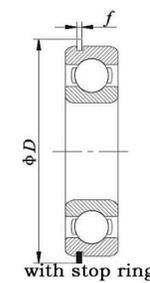
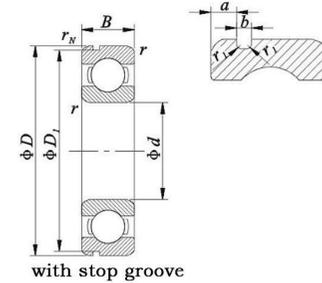
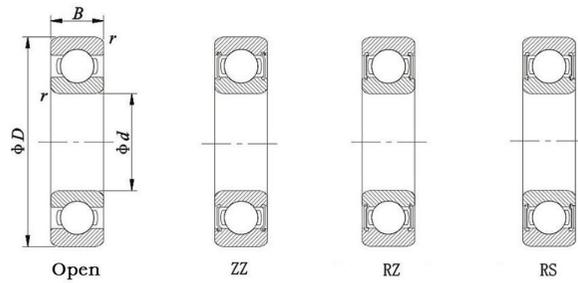
Deep groove ball bearings



d 85~105 mm

Main Dimensions (mm)				Basic Rated Load (kN)		Limit Speed (r/min)				Nominal Model	Snap Ring Groove Dimensions (mm)					Stop Ring Size (mm)		Installation related dimensions (mm)						Reference Quality (kg)	
d	D	B	r (Min)	C _r	C _{0r}	Grease		Oil			a	b	D _i	r _o	r _N	D _s	f	d _s	D _s	r _s	D _z	C _y	C _z		
						contactless	contact	light contact	open																Max
85	110	13	1	19.80	19.20	5700	3100	6700	61817	2.1	1.3	107.6	0.4	0.5	115.7	1.12	90	91	105	1	117	2.9	1.2	0.270	
	120	18	1.1	31.90	29.70	5400	3000	6300		61917	3.3	1.3	117.6	0.4	0.5	125.7	1.12	91.5	94	113.5	1	127	4.1	1.2	0.536
	130	14	0.6	32.80	31.50	5000	—	5900		16017	—	—	—	—	—	—	—	89	—	126	0.6	—	—	—	0.626
	130	22	1.1	52.80	44.50	5000	2900	5900	6017	2.87	3.1	125.22	0.6	0.5	139.7	2.82	91.5	97	123.5	1	141.5	5.3	2.9	0.890	
	150	28	2	83.30	63.80	4200	2800	5000	6217	4.9	3.1	145.24	0.6	0.5	159.7	2.82	94	103	141	2	162	7.3	2.9	1.790	
	180	41	3	132.70	96.60	3800	2600	4500	6317	5.69	3.5	173.66	0.6	0.5	192.9	3.1	98	112	167	2.5	195	8.4	3.1	4.230	
90	115	13	1	19.00	19.70	5400	3000	6300	61818	2.1	1.3	112.6	0.4	0.5	120.7	1.12	95	96	110	1	122	2.9	1.2	0.285	
	125	18	1.1	32.80	31.50	5100	2900	6000		61918	3.3	1.3	122.6	0.4	0.5	130.7	1.12	96.5	99	118.5	1	132	4.1	1.2	0.554
	140	16	1	41.50	39.30	4700	—	5600		16018	—	—	—	—	—	—	—	95	—	135	1	—	—	—	0.848
	140	24	1.5	61.20	50.60	4700	2800	5600	6018	3.71	3.1	135.23	0.6	0.5	149.7	2.82	98	102	132	1.5	152	6.1	2.9	1.020	
	160	30	2	96.00	71.50	4000	2600	4700	6218	4.9	3.1	155.22	0.6	0.5	169.7	2.82	99	109	151	2	172	7.3	2.9	2.150	
	190	43	3	142.60	107.20	3600	2400	4200	6318	5.69	3.5	183.64	0.6	0.5	202.9	3.1	103	118	177	2.5	205	8.4	3.1	4.910	
95	120	13	1	20.80	19.80	5000	2800	5900	61819	2.1	1.3	117.6	0.4	0.5	125.7	1.12	100	101	115	1	127	2.9	1.2	0.300	
	130	18	1.1	33.70	33.40	4800	2800	5700		61919	3.3	1.3	127.6	0.4	0.5	135.7	1.12	101.5	104	123.5	1	137	4.1	1.2	0.579
	145	16	1	42.70	41.90	4500	—	5300		16019	—	—	—	—	—	—	—	100	—	140	1	—	—	—	0.885
	145	24	1.5	60.80	51.00	4500	2600	5300	6019	3.71	3.1	140.23	0.6	0.5	154.7	2.82	103	109	137	1.5	157	6.1	2.9	1.080	
	170	32	2.1	109.00	82.00	3700	2500	4400	6219	5.69	3.5	163.65	0.6	0.5	182.9	3.1	106	116	159	2	185	8.4	3.1	2.620	
	200	45	3	156.60	121.80	3300	2300	3900	6319	5.69	3.5	193.65	0.6	0.5	212.9	3.1	108	125	187	2.5	215	8.4	3.1	5.670	
100	125	13	1	20.10	22.00	4800	2700	5600	61820	2.1	1.3	122.6	0.4	0.5	130.7	1.12	105	106	120	1	132	2.9	1.2	0.313	
	140	20	1.1	42.70	41.90	4500	2600	5300		61920	3.3	1.9	137.6	0.6	0.5	145.7	1.7	106.5	110	133.5	1	147	4.7	1.7	0.785
	150	16	1	43.80	44.30	4200	—	5000		16020	—	—	—	—	—	—	—	105	—	145	1	—	—	—	0.910
	150	24	1.5	60.20	54.20	4200	2600	5000	6020	3.71	3.1	145.24	0.6	0.5	159.7	2.82	108	110	142	1.5	162	6.1	2.9	1.150	
	180	34	2.1	122.00	92.70	3500	2300	4200	6220	5.69	3.5	173.66	0.6	0.5	192.9	3.1	111	122	169	2	195	8.4	3.1	3.140	
	215	47	3	173.00	140.20	3200	2200	3700	6320	—	—	—	—	—	—	—	113	133	202	2.5	—	—	—	7.000	
105	130	13	1	19.80	22.00	4600	—	5400	61821	2.1	1.3	127.6	0.4	0.5	135.7	1.12	110	—	125	1	137	2.9	1.2	0.330	
	145	20	1.1	42.50	42.00	4300	2500	5100		61921	3.3	1.9	142.6	0.6	0.5	150.7	1.7	111.5	115	138.5	1	152	4.7	1.7	0.816
	160	18	1	51.80	50.60	4000	—	4700		16021	—	—	—	—	—	—	—	110	—	155	1	—	—	—	1.200
	160	26	2	69.20	61.20	4000	2400	4700	6021	3.71	3.1	155.22	0.6	0.5	169.7	2.82	114	119	151	2	172	6.1	2.9	1.590	
	190	36	2.1	133.00	105.00	3400	2300	4000	6221	5.69	3.5	183.64	0.6	0.5	202.9	3.1	116	125	179	2	205	8.4	3.1	3.700	
	225	49	3	183.70	153.10	3000	2100	3600	6321	—	—	—	—	—	—	—	118	134	212	2.5	—	—	—	8.050	

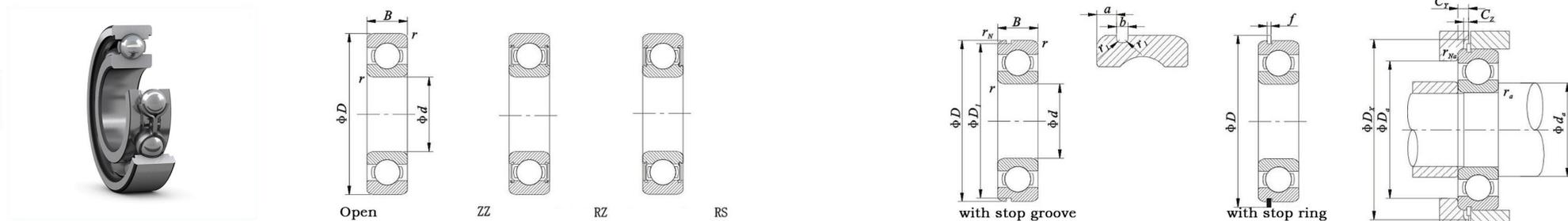
Deep groove ball bearings



d 110~120 mm

Main Dimensions			Basic Rated Load		Limit Speed				Nominal Model	Snap Ring Groove Dimensions					Stop Ring Size		Installation related dimensions						Reference Quality (kg)		
(mm)			(kN)		(r/min)					(mm)					(mm)		(mm)								
<i>d</i>	<i>D</i>	<i>B</i>	<i>r</i> (Min)	<i>C_r</i>	<i>C_{0r}</i>	Grease		Oil		<i>a</i>	<i>b</i>	<i>D_i</i>	<i>r₀</i>	<i>r_N</i>	<i>D_s</i>	<i>f</i>	<i>d_a</i>	<i>D_a</i>	<i>r_a</i>	<i>D_s</i>	<i>C_r</i>	<i>C_z</i>	<i>r_a</i>	<i>d_s</i>	
						contactless	contact	light contact	open	Max	Min	Max	Max	Min	Max	Max	Min	Max	Max	Max	Max	Max	Max	Max	Max
110	140	16	1	28.10	30.70	4300	—	5100	61822 61922 16022	2.5	1.9	137.6	0.6	0.5	145.7	1.7	115	—	135	1	147	3.9	1.7	—	0.515
	150	20	1.1	43.50	44.50	4100	2400	4800		3.3	1.9	147.6	0.6	0.5	155.7	1.7	116.5	120	143.5	1	157	4.7	1.7	—	0.849
	170	19	1	57.40	56.70	3800	—	4500		—	—	—	—	—	—	—	115	—	165	—	—	—	—	—	—
	170	28	2	82.00	73.00	3800	2300	4500	6022	3.71	3.5	163.65	0.6	0.5	182.9	3.1	119	126	161	2	185	6.4	3.1	—	1.960
	200	38	2.1	144.00	117.00	3200	2200	3800	6222	5.69	3.5	193.65	0.6	0.5	212.9	3.1	121	132	189	2	215	8.4	3.1	—	4.360
	240	50	3	205.00	178.30	2900	1900	3400	6322	—	—	—	—	—	—	—	123	149	227	2.5	—	—	—	—	9.540
120	150	16	1	28.90	32.10	4000	—	4700	61824 61924 16024	2.5	1.9	147.6	0.6	0.5	155.7	1.7	125	—	145	1	157	3.9	1.7	—	0.555
	165	22	1.1	53.00	53.90	3800	—	4400		3.7	1.9	161.8	0.6	0.5	171.5	1.7	126.5	—	158.5	1	173	5.1	1.7	—	1.150
	180	19	1	58.80	60.40	3500	—	4100		—	—	—	—	—	—	—	125	—	175	1	—	—	—	—	1.560
	180	28	2	88.10	79.70	3500	2100	4100	6024	3.71	3.5	173.66	0.6	0.5	192.9	3.1	129	136	171	2	195	6.4	3.1	—	2.070
	215	40	2.1	155.30	131.00	2900	2000	3400	6224	—	—	—	—	—	—	—	131	143	204	2	—	—	—	—	5.150
	260	55	3	227.60	207.40	2600	—	3100	6324	—	—	—	—	—	—	—	133	—	247	2.5	—	—	—	—	12.40

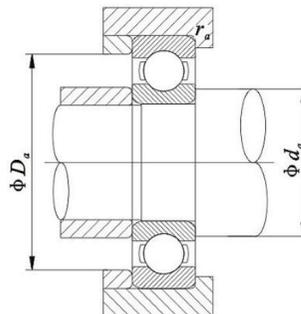
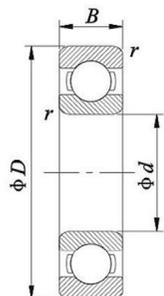
Deep groove ball bearings



d 130~170 mm

Main Dimensions (mm)				Basic Rated Load (kN)		Limit Speed (r/min)				Nominal Model	Snap Ring Groove Dimensions (mm)					Stop Ring Size (mm)		Installation related dimensions (mm)						Reference Quality (kg)
d	D	B	r _r (Min)	C _r	C _{0r}	Grease		Oil			a	b	D _i	r ₀	r _N	D _s	f	d _a	D _a	r _a	D _s	C _y	C _z	
						contactless	contact	light contact	open	Max	Min	Max	Max	Min	Max	Max	Min	Max	Max	Max	Min	Max	Max	
130	165	18	1.1	37.9	42.9	3600		4300		3.3	1.9	161.8	0.6	0.5	171.5	1.7	136.5	—	158.5	1	173	4.7	1.7	0.800
	180	24	1.5	65.1	67.2	3400		4000		3.7	1.9	176.8	0.6	0.5	186.5	1.7	138	—	172	1.5	188	5.1	1.7	1.520
	200	22	1.1	80.0	79.5	3200		3800		—	—	—	—	—	—	—	136.5	—	193.5	1	—	—	—	2.310
	200	33	2	105.0	96.8	3200		3800		5.69	3.5	193.65	0.6	0.5	212.9	3.1	139	148	191	2	215	8.4	3.1	3.160
	230	40	3	165.0	148.0	2600		3200		—	—	—	—	—	—	—	143	—	217	2.5	—	—	—	5.820
	280	58	4	250.9	238.7	2200		2800		—	—	—	—	—	—	—	146	—	264	3	—	—	—	15.30
140	175	18	1.1	38.2	44.3	3400		4000		3.3	1.9	171.8	0.6	0.5	181.5	1.7	146.5	—	168.5	1	183	4.7	1.7	0.850
	190	24	1.5	66.5	71.5	3200		3800		3.7	1.9	186.8	0.6	0.5	196.5	1.7	148	—	182	1.5	198	5.1	1.7	1.620
	210	22	1.1	82.1	85.0	3000		3600		—	—	—	—	—	—	—	146.5	—	203.5	1	—	—	—	2.450
	210	33	2	105.4	101.8	3000		3600		—	—	—	—	—	—	—	149	158	201	2	—	—	—	3.350
	250	42	3	166.0	150.0	2400		3000		—	—	—	—	—	—	—	153	—	237	2.5	—	—	—	7.570
	300	62	4	211.4	254.0	2000		2600		—	—	—	—	—	—	—	156	—	284	3	—	—	—	18.50
150	190	20	1.1	47.5	55.0	3000		3600		3.3	1.9	186.8	0.6	0.5	196.5	1.7	156.5	—	183.5	1	198	4.7	1.7	1.160
	210	28	2	84.7	90.2	2800		3400		—	—	—	—	—	—	—	159	—	201	2	—	—	—	2.470
	225	24	1.1	91.8	98.5	2600		3200		—	—	—	—	—	—	—	156.5	—	218.5	1	—	—	—	3.070
	225	35	2.1	131.7	124.5	2600		3200		—	—	—	—	—	—	—	161	169	214	2	—	—	—	4.080
	270	45	3	176.0	168.0	2000		2600		—	—	—	—	—	—	—	163	—	257	2.5	—	—	—	9.410
	320	65	4	221.6	270.0	1900		2400		—	—	—	—	—	—	—	166	—	304	3	—	—	—	22.00
160	200	20	1.1	49.6	59.1	2800		3400		3.3	1.9	196.8	0.6	0.5	206.5	1.7	166.5	—	193.5	1	208	4.7	1.7	1.230
	220	28	2	86.9	95.5	2600		3200		—	—	—	—	—	—	—	169	—	211	2	—	—	—	2.610
	240	25	1.5	99.0	108.0	2400		3000		—	—	—	—	—	—	—	168	—	232	1.5	—	—	—	3.640
	240	38	2.1	136.6	135.4	2400		3000		—	—	—	—	—	—	—	171	183	229	2	—	—	—	5.050
	290	48	3	215.0	218.0	1900		2400		—	—	—	—	—	—	—	173	—	277	2.5	—	—	—	11.70
	340	68	4	301.0	317.0	1800		2200		—	—	—	—	—	—	—	176	—	324	3	—	—	—	26.00
170	215	22	1.1	59.8	70.4	2600		3200		—	—	—	—	—	—	—	176.5	—	208.5	1	—	—	—	1.630
	230	28	2	86.0	95.5	2400		3000		—	—	—	—	—	—	—	179	—	221	2	—	—	—	2.740
	260	28	1.5	119.0	128.0	2200		2800		—	—	—	—	—	—	—	178	—	252	1.5	—	—	—	4.930
	260	42	2.1	168.0	172.0	2200		2800		—	—	—	—	—	—	—	181	—	249	2	—	—	—	6.760
	310	52	4	212.0	223.0	1900		2400		—	—	—	—	—	—	—	186	—	294	3	—	—	—	14.50
	360	72	4	335.5	378.1	1700		2000		—	—	—	—	—	—	—	186	—	344	3	—	—	—	30.70

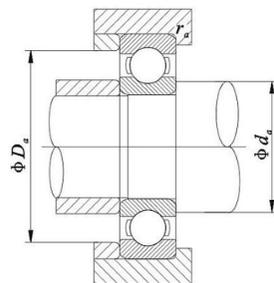
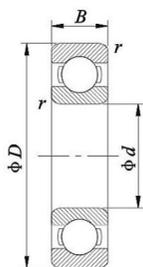
Deep groove ball bearings



d 180~200 mm

Main Dimensions (mm)				Basic Rated Load (kN)		Limit Speed (r/min)		Nominal Model	Installation related dimensions (mm)			Reference Quality (kg)
d	D	B	r (Min)	C _r	C _{0r}	Grease	Oil		d _a Min	D _a Max	r _a Max	
180	225	22	1.1	60.5	73.0	2400	3000	61836	186.5	218.5	1	2.030
	250	33	2	110.0	119.0	2200	2800	61936	189	241	2	4.760
	280	31	2	188.9	198.7	2000	2600	16036	189	271	2	6.490
	280	46	2.1	189.0	199.0	2000	2600	6036	191	269	2	8.800
	320	52	4	227.0	241.0	1800	2200	6236	196	304	3	15.10
	380	75	4	355.0	405.0	1600	2000	6336	196	364	3	35.60
190	240	24	1.5	73.0	88.0	2200	2800	61838	198	232	1.5	2.620
	260	33	2	117	133	2200	2800	61938	199	251	2	4.980
	290	31	2	145.5	160.0	2000	2600	16038	199	281	2	6.770
	290	46	2.1	172.0	187.0	2000	2600	6038	201	279	2	9.180
	340	55	4	255.0	281.0	1700	2000	6238	206	324	3	18.20
	400	78	5	378.0	439.0	1600	1900	6338	210	380	4	41.00
200	250	24	1.5	74.0	91.5	2200	2800	61840	208	242	1.5	2.730
	280	38	2.1	149	168.0	2000	2600	61940	211	269	2	7.100
	310	34	2	167	191	1900	2400	16040	209	301	2	8.680
	310	51	2.1	218.0	243.0	1900	2400	6040	211	299	2	11.90
	360	58	4	269.0	310.0	1700	2000	6240	216	344	3	21.60
	420	80	5	410.0	500.0	1500	1800	6340	220	400	4	46.30

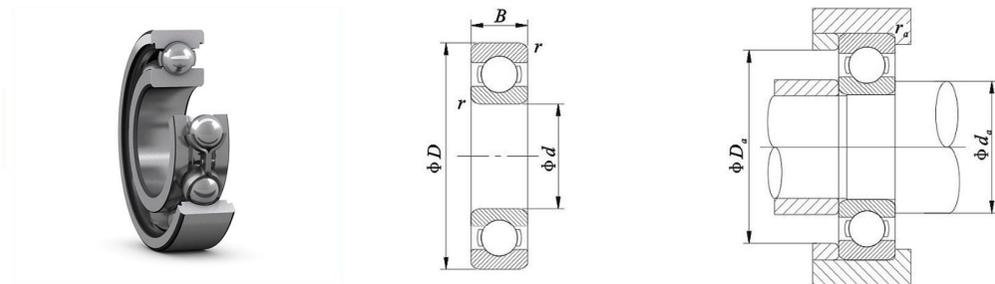
Deep groove ball bearings



d 220~380mm

Main Dimensions (mm)	Basic Rated Load (kN)		Limit Speed (r/min)		Nominal Model	Installation related dimensions (mm)			Reference Quality (kg)			
	d	D	B	r (Min)		C_r	C_{0r}	Grease		Oil	d_e Min	D_e Max
220	270	24	1.5	78	110	1900	2400	61844	228	262	1.5	3
	300	38	2.1	151	180	1900	2400	61944	231	289	2	8
	340	37	2.1	174	204	1800	2200	16044	231	329	2	11.2
	340	56	3	247	290	1800	2200	6044	233	327	2.5	18.5
	400	65	4	296	365	1500	1800	6244	236	284	3	37
	460	88	5	410	520	1300	1600	6344	240	440	4	72.5
240	300	28	2	108	150	1800	2200	61848	249	291	2	4.5
	320	38	2.1	159	200	1800	2200	61948	251	309	2	8.6
	360	37	2.1	178	220	1700	2000	16048	251	349	2	14.5
	360	56	3	255	315	1700	2000	6048	253	347	2.3	19.5
	440	72	4	358	475	1300	1600	6248	256	424	3	51
260	320	28	2	111	163	1700	2000	61852	269	311	2	4.8
	360	46	2.1	212	270	1600	1900	61952	271	349	2	14.5
	400	44	3	238	310	1500	1800	16052	273	387	2.5	21.5
	400	65	4	291	375	1500	1800	6052	276	384	3	29.5
	480	80	5	390	530	1100	1400	6252	280	460	4	65.5
280	350	33	2	138	200	1600	1900	61856	289	341	2	7.4
	380	46	2.1	216	285	1500	1800	61956	291	169	2	15.5
	420	44	3	242	335	1400	1700	16056	293	407	2.3	23
	420	65	4	302	405	1400	1700	6056	296	404	3	31
	500	80	5	423	600	1100	1400	6256	300	480	4	71
300	380	38	2.1	172	245	1400	1700	61060	311	369	2	10.5
	420	56	3	270	375	1300	1600	61960	313	407	2.5	24.5
	460	50	4	286	405	1200	1500	16060	316	444	3	32
	460	74	4	358	500	1200	1500	6060	316	444	3	44
320	400	38	2.1	172	255	1300	1600	61864	331	389	2	11
	440	56	3	276	400	1200	1500	61964	333	427	2.5	25.5
	480	50	4	281	405	1100	1400	16064	336	464	3	34
	480	74	4	371	540	1100	1400	6064	336	464	3	46
340	420	38	2.1	178	275	1200	1500	61868	351	409	2	11.5
	460	56	3	281	425	1100	1400	61968	353	447	2.5	26.5
	520	57	5	346	520	1000	1300	16068	356	504	3	45
	520	82	6	423	640	1000	1300	6068	360	500	4	62
360	440	38	2.1	182	285	1100	1400	61872	371	429	2	12
	480	56	3	291	450	1100	1400	61972	373	467	2.5	28
	540	57	5	351	550	1000	1300	16072	376	524	3	49
	540	82	6	462	735	1000	1300	6072	380	520	4	64.5
380	480	46	2.1	242	390	1000	1300	61876	391	469	2	20
	520	65	4	338	540	1000	1300	61976	396	504	3	40
	560	57	5	377	620	950	1200	16076	396	544	3	51
	560	82	5	462	750	950	1200	6076	400	540	4	67.5

Deep groove ball bearings



d 400~1000mm

Main Dimensions				Basic Rated Load		Limit Speed		Nominal Model	Installation related dimensions			Reference Quality
<i>d</i>	<i>D</i>	<i>B</i>	<i>r</i> (Min)	<i>C_r</i>	<i>C₀</i>	Grease	Oil		<i>d_s</i> Min	<i>D_s</i> Max	<i>r_s</i> Max	
400	500	46	2.1	247	405	1000	1000	61880	411	489	2	20.5
	540	65	4	345	570	950	950	61980	416	524	3	41.5
	600	90	5	520	865	900	900	6080	420	580	4	87.5
420	520	46	2.1	251	425	950	1200	61884	431	509	2	21.5
	560	65	4	351	600	900	1100	61984	436	544	3	43
	620	90	5	507	880	900	1100	6084	440	600	4	91.5
440	540	46	2.1	255	440	900	1100	61888	451	529	2	22.5
	600	74	4	410	720	900	1100	61988	456	584	3	60.5
	650	94	6	553	965	850	1000	6088	466	624	5	105
460	580	56	3	319	570	900	1100	61892	473	567	2.5	35
	620	74	4	423	750	650	1000	61990	476	604	3	62.5
	680	100	6	582	1,060	800	950	6092	486	654	5	120
480	600	56	3	325	600	850	1000	61896	493	587	2.5	36.5
	650	78	5	449	815	800	950	61996	500	630	4	74
	700	100	6	618	1,140	750	900	6096	506	674	5	125
500	620	56	3	332	620	800	950	618/500	513	607	2.5	37.5
	670	78	5	452	865	750	900	619/500	520	650	4	77
	720	100	6	605	1,140	750	900	60/500	526	694	5	135
530	650	56	3	332	655	750	900	618/530	543	637	2.5	39.5
	710	82	5	488	930	700	850	619/530	550	690	4	90.5
	780	112	6	650	1,270	670	800	60/530	556	754	5	185
560	680	56	3	345	695	700	850	618/560	573	667	2.5	42
	750	85	5	494	980	670	800	619/560	580	730	4	105
	820	115	6	663	1,470	630	750	60/560	586	794	5	210
600	730	60	3	364	765	670	800	618/500	613	717	2.5	52
	800	90	5	585	1,220	630	750	619/500	620	780	4	125
	780	69	4	442	965	630	750	618/530	646	764	3	73
630	850	110	6	624	1,340	600	700	619/530	656	824	5	160
	920	128	7.5	819	1,760	560	670	60/530	663	887	6	285
	820	69	4	442	1,000	560	670	618/570	686	804	3	77.5
670	900	103	6	676	1,500	530	630	619/570	696	874	5	185
	980	136	7.5	904	2,040	500	600	60/570	703	947	6	345
	870	74	4	475	1,100	530	630	618/710	726	854	3	93.5
710	950	106	6	663	1,500	500	600	619/710	736	924	5	220
	1030	140	7.5	956	2,200	560	560	60/710	743	997	6	375
	920	78	5	527	1,250	500	600	618/750	770	900	4	110
750	1000	112	6	761	1,800	480	560	619/750	776	974	5	255
	980	82	5	559	1,370	450	530	618/800	820	960	4	130
	850	82	5	559	1,430	430	500	618/850	870	1010	4	140
900	1090	85	5	618	1,600	380	450	618/900	920	1070	4	160
1000	1220	100	6	637	1,800	340	400	618/1000	1026	1194	5	245

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