SNIBO
Innovation in Motion

BEARING

SAIBO
Innovation in Motion

SAIBO is one of world recognized manufacturers of precision power transmission components. SAIBO group has two divisions, bearing division and linear motion division.

SAIBO Bearing Division produce precision deep groove ball bearing, high speed angular contact ball bearing, thin section bearing and linear bearing etc. Mainly supplies for the manufactures of automobile, household appliances, motors, machine tools, automation equipment and other industries. Our 60% sales are exported to European, North American and Asian markets.

SAIBO has over 33,000 square meters producing facilities totally and 350 employees with annual production capacity of 35 million bearings. SAIBO has all kinds of testing instruments, including metallographic microscope, video measuring instrument, steel ball vibration measuring instrument, roundness instrument, roughness instrument, groove curvature instrument, length measuring instrument, three coordinate measuring instrument, life testing instrument, velocity and acceleration type vibration measuring instrument. All of these provide an effective guarantee for producing high quality products.

SAIBO means aim for greatness, focus on details. We seek to work with you and promise the following:

- The right product from your application
- A quality product you can trust
- Engineering assistance that is proven and world renown

SNBO

Bearing Selection Method

Bearings are widely used in various mechanical devices and instruments. The performance and requirements of bearings in specific application are also diverse. In order to help users quickly select suitable bearings, we have compiled the following selection methods. The listed concerns are not in a fixed order and can be considered comprehensively according to practical applications.

No.	Consideration	Selection Method
1	Installation space	· Preliminary select the inner bore, outer diameter and width of the bearing according to the specific application
2	Load (static load and dynamic load)	· Magnitude and direction of force (Axial and radial direction)
		· Vibration or shock
		- Select the factor of safety fs according to the specific situation
3	Arrangement of bearings	· When using angular contact bearings in pairs, suitable arrangement can obtain the best rotation accuracy and force state.
4	Speed	· The limit speed of the specific application and the speed of long-term operation.
		· In the case of high-speed rotation, lubrication, cooling methods, and the influence of temperature rise on accuracy must be considered
5	Accuracy	· In general, it can be ordinary precision P0
		· high rotation accuracy, high speed, and low friction etc. applications need higher accuracy grade such as P5 and P4
6	Noise and Vibration	· Mainly for precision instruments, household appliances etc. which require low noise and vibration.
7	Rigidity	· For high rigidity requested applications such as machine tool spindles, the rigidity of the bearing must be improved
		· Roller bearings are more rigid than ball bearings
		· Applying preload (negative clearance) can increase the rigidity.
8	Working temperature	· Normal bearing working temperature is -20℃ to 120℃, if it exceeds this range, It should fill high / low temperature grease.
		· Big clearance can resist thermal expansion caused by temperature rise.
9	Sealing performance	· If the sealing requirement is strict, contact rubber seals could be selected, but the friction will be increased.
		· Steel shields could be selected if the friction can't be increased or sealing requirement is not strict
		· If it is to oil-lubricated such as gearboxes, open bearings are generally used
10	Anti-rust requirements	If need anti-rust , stainless steel bearings can be selected
11	Other requirements	For specific applications, please contact us

1. Basic static load rating and safety factor

When a bearing subject to an excessive load or a strong impact load, the bearing may incur a local permanent deformation of the rolling elements and raceway surface if the elastic limit is exceeded. The nonelastic deformation increases in area and depth as the load increases, and when the load exceeds a certain limit, the smooth running of the bearing is impeded. The Basic rated static load refers to the static load capacity by the bearing when the total permanent deformation of 0.0001 times the diameter of the rolling body occurs in the center of the contact surface between the rolling body and the raceway. The basic rated static load of radial bearings is divided into radial basic rated static load and axial basic rated static load, expressed by Cor and Coa.

Safety factor

The safety factor refers to the ratio of the basic rated static load to the equivalent static load. Higher factor indicate more security. In the preliminary selection, if the deep groove ball bearing only subjects to radial load, the equivalent static load can be replaced by radial load. The safety factor is equal to the ratio of the radial basic rated static load to the radial load. Please refer to the table below for the safety factor. If the equivalent static load is complicated, please refer to the bearing design manual.

Table 1.1 Safety Factor

Working Gondiction		MinSafety Factor
		Ball Bearing
Normal rotate	High rotating precision	2
	Normal working condition	1
	Shock load	1.5
Not rotate always (wiggle sometimes)	Normal workina condition	0.5
	Shock load or unevenly distributed loade	1

Rated load and life

For the general use environment, when the speed and load are not too large, the type can be selected simply according to the basic rated static load and safety factor. Then carry out the verification calculation. The load and life calculation of the bearing is professional and complicated. Please refer to the bearing design manual.

2. Limit speed

The limit speed of the bearing is mainly limited by the temperature rise caused by the frictional heat inside the bearing. When the speed exceeds a certain limit, the bearing will not be able to continue to rotate due to burns etc. The limit rotational speed of a bearing is the limit value of the rotational speed at which it can continue to rotate without generating frictional heat that would cause burns. The limit speed of the bearing depends on various factors such as the type, size and accuracy of the bearing, the lubrication method, the quality and quantity of the lubricant, the material and type of the cage, and the load conditions.

3. Accuracy

The accuracy of rolling bearings is divided into dimensional accuracy and rotational accuracy. The accuracy grades have been standardized according to Chinese standard GB307 and ISO492. They are divided into grades 0, 6, 5, 4 and 2 levels.

Table 3.1 Accuracy comparison

Country	Standard	Accurancy Grade				
CHINA	GB307	0	6	5	4	2
ISO	ISO492	0	6	5	4	2
GERMANY	DIN 620/2	P0	P6	P5	P4	P2
USA	ANSI B3.14	ABEC1	ABEC3	ABEC5	ABEC7	ABEC9
JAPAN	JIS B 1514	0	6	5	4	2

4. Noise and Vibration

The **noise** of deep groove ball bearings is rated by **vibration (acceleration).**
Please refer to below table for specific standards.

Table 4.1 Vibration (acceleration) limited value Unit：dB

Nomina O.D.		0 series					2 Series					3 Series				
>	≤	Z	Z1	Z2	Z3	Z4	Z	Z1	Z2	Z3	Z4	Z	Z1	Z2	Z3	Z4
10	15	36	33	30	27	24	36	33	30	27	24	41	37	33	29	25
15	20	37	34	31	28	25	37	34	31	28	25	42	38	34	30	26
20	25	38	35	32	29	26	40	37	33	29	26	43	39	35	31	27
25	30	39	36	33	30	27	41	38	34	30	27	44	40	36	31	27
30	40	41	38	35	32	29	42	39	36	33	30	46	42	38	33	29
40	50	43	40	37	34	31	44	41	38	35	32	48	44	40	35	31
50	60	45	42	39	36	33	46	43	40	37	34	50	46	42	37	33
60	70	48	45	42	38	35	49	46	42	39	36	52	48	44	39	35
70	80	50	47	44	40	37	51	48	44	41	38	54	50	46	41	37
80	90	52	49	46	42	39	53	50	46	43	40	57	53	48	43	39
90	100	54	51	48	44	41	55	52	48	45	42	59	55	50	45	41
100	110	56	53	50	46	43	58	54	50	47	44	61	57	52	47	43

The **vibration** of deep groove ball bearings is rated by the **vibration** (**speed**).

Please refer to below table for specific standards.

Table 4.2 Vibration (speed) limited value Unit: μ m/s

Nominal O.D.		V			V1			V2			V3			V4		
>	≤	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H
10	15	110	60	60	80	40	40	55	28	28	40	18	18	28	12	12
15	20	145	70	70	100	50	50	65	30	30	45	18	18	32	12	12
20	25	185	85	95	120	55	60	80	35	35	52	20	20	35	12	12
25	30	225	100	125	145	65	75	95	40	45	60	25	25	38	15	15
30	40	265	120	170	170	75	100	110	50	65	70	32	35	45	20	20
40	50	310	140	220	195	90	130	125	60	85	80	38	50	50	25	30
50	60	360	160	270	225	105	165	145	70	105	90	45	65	55	30	40
60	70	410	185	320	255	120	200	165	80	125	105	52	80	65	35	50
70	80	460	210	370	285	135	235	185	90	145	120	60	95	75	40	60
80	90	510	240	430	320	155	270	205	100	170	135	68	110	85	45	70
90	100	560	270	490	355	175	310	225	110	195	150	75	125	95	50	80
100	110	610	300	550	390	195	350	250	120	220	165	82	140	105	55	90

5. Tolerance and Fit

Bearing's gereral tolerance and fit could be refered to the tolerance and fit section in the mechanical design manual. In addition to considering the general fit and tolerance, the application conditions of the bearing should also be fully considered. It includes:

· Feature and magnitude of the load
· Temperature distribution during operation
· Internal clearance
· Machining quality, material and thick structure of shaft and housing
· Compensation of the thermal expansion of the shaft

6. Internal Clearance

The radial and axial clearances are defined as the total amount that one ring can be displaced relative to the other in the radial and axial directions respectively. Theoretically, when the bearing is in normal operation, a slightly negative clearance is beneficial to the life of the bearing. But it is very difficult to maintain this optimal state. Because once a certain use condition changes, the negative clearance of the bearing will increase accordingly, resulting in a significant decrease in the bearing life or heat generation. Therefore, when selecting the initial clearance, the running clearance is required to be slightly bigger than zero.

Table 6.1 Radial Internal clearances in Deep Groove Ball Bearings Unit: μ m

Nominal Bore Diameter d. mm		Clearance									
		C2		CN		C3		C4		C5	
over	incl.	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
2.5	6	0	7	2	13	8	23	14	29	20	37
6	10	0	7	2	13	8	23	14	29	20	37
10	18	0	9	3	18	11	25	18	33	25	45
18	24	0	10	5	20	13	28	20	36	28	48
24	30	1	11	5	20	13	28	23	41	30	53
30	40	1	11	6	20	15	33	28	46	40	64
40	50	1	11	6	23	18	36	30	51	45	73
50	65	1	15	8	28	23	43	38	61	55	90

7. Temperature

Under normal condition, the bearing can work in the temperature range of -20℃ to 120℃. If the temperature exceeds this range, special seals, retainers, grease and other components should be selected.

8. Lubrication

Normal bearings are usually lubricated with grease. Lubrication can form a thin oil film on surface of the raceways and the rolling elements to prevent direct contact between metal and metal. The effect of lubrication on rolling bearings:

· Reduce friction and wear
· Dissipate frictional heat
· Extend bearing life
· Prevents rust
· Protection against intrusion of external objects

Generally, grease fill 25-35% of the internal space volume of the bearing.

9. Seal

The function of the seal is to prevent the leakage of lubricant in the bearing, intrusion of external dust and water into the bearing. The main factors to consider when choosing a seal: the type of lubricant, the linear speed of the seal, the installation error of the shaft, the friction of between sealing and the inner ring etc. The seal of rolling bearing can be roughly divided into two types: contact type and non-contact type. Bearings that are not sealed are called open type.

10. Anti-rust

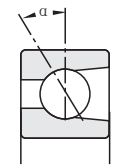
All bearing surfaces are sprayed with anti-rust oil before packing. Anti-rust treatment is required in time after installation. If need better anti-rust effect, stainless steel bearing is available.

11. Angular contact bearings

Angular contact bearings are suitable for high-speed and high-precision rotation. It can subject to complex radial and axial loads. Typical applications are machine tool spindles, mining machinery, wind power generation equipment, etc.

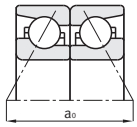
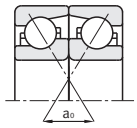
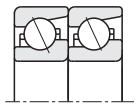
Angular contact bearings include: single row and combination angular contact bearings, double row angular contact ball bearings, four-point contact ball bearings etc.

The contact angle α is 15°, 25°, or 40°
· The contact angle is more bigger, the axial load is more bigger
· Smaller contact angle is more conducive to high-speed rotation



Combination structure of angular contact bearings

When using angular contact bearings in pairs, it is necessary to choose face-to-face, back-to-back or side-by-side pairing methods reasonably according to the force requirements, so as to obtain the best high rotation accuracy and force state. Applied preload can improve the rigidity and rotation accuracy of the bearings.

Figure	Arrangement	Features
	Back–to–back DB (Example) 7208 ADB	Radial loads and axial loads in both directions can be sustained. Since the distance between the effective load centers a0 is big. this type is suitable if moments are applied.
	Face–to–face DF (Example) 7208 BDF	Radial loads and axial loads in both directions can be sustained. Compared with the DB Type, the distance between the effective load centers is small, so the capacity to sustain moments is inferior to the DB Type.
	Tandem DT (Example) 7208 ADT	Radial loads and axial loads in one directions can be sustained. Since two bearings share the axial load, this arrangement is used when the load in one direction is heavy.

12. Thin-Section Bearing

Thin-section (Ultra-thin) bearings have the characteristics of Excellent rotational accuracy, save space, light weight, low friction etc. They are widely used in Robot joints, semiconductor equipment, aerospace equipment and precision instruments etc.

· SAIBO has 20 years' production technology and experience in ultra-thin bearing area
· The thinnest product can achieve a total section thickness of 2.5mm
· Provide bearings for extreme temperature -40°C ~ 260°C
· Customized products available

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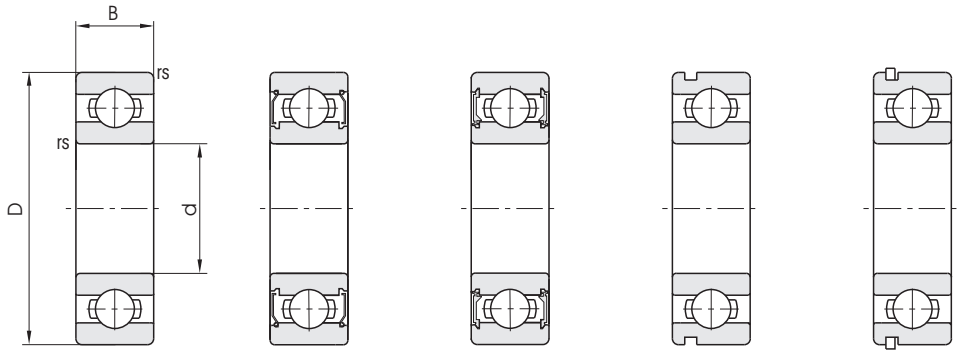
Super-Slim Bearing



Bearing Type					Basic Dimension mm				Load Rating kN		Weight kg
Open	Shielded	Sealed	With stop groove	With located snap ring	d	D	B	r s min	Cr	Cor	
6700	ZZ	2RS	N	NR	10	15	4	0.1	1.01	0.555	0.0015
6701	ZZ	2RS	N	NR	12	18	4	0.2	1.07	0.655	0.003
6702	ZZ	2RS	N	NR	15	21	4	0.2	1.15	0.790	0.0035
6703	ZZ	2RS	N	NR	17	23	4	0.2	1.20	0.865	0.004
6704	ZZ	2RS	N	NR	20	27	4	0.2	1.79	1.320	0.005
6705	ZZ	2RS	N	NR	25	32	4	0.2	1.93	1.550	0.006
6706	ZZ	2RS	N	NR	30	37	4	0.2	2.05	1.780	0.008
6707	ZZ	2RS	N	NR	35	44	5	0.2	1.862	1.637	0.015
6708	ZZ	2RS	N	NR	40	50	6	0.3	2.519	2.234	0.023
6709	ZZ	2RS	N	NR	45	55	6	0.3	2.577	2.401	0.025
6800	ZZ	2RS	N	NR	10	19	5	0.3	1.84	0.925	0.005
6801	ZZ	2RS	N	NR	12	21	5	0.3	1.90	1.04	0.006
6802	ZZ	2RS	N	NR	15	24	5	0.3	2.08	1.26	0.007
6803	ZZ	2RS	N	NR	17	30	7	0.3	2.81	1.72	0.008
6804	ZZ	2RS	N	NR	20	32	7	0.3	4.0	2.47	0.017
6805	ZZ	2RS	N	NR	25	37	7	0.3	4.3	2.95	0.021
6806	ZZ	2RS	N	NR	30	42	7	0.3	4.70	3.65	0.024
6807	ZZ	2RS	N	NR	35	47	7	0.3	4.75	3.90	0.027
6808	ZZ	2RS	N	NR	40	52	7	0.3	4.90	4.35	0.031
6809	ZZ	2RS	N	NR	45	58	7	0.3	5.35	5.25	0.038
6810	ZZ	2RS	N	NR	50	65	7	0.3	6.40	6.20	0.050

Bearing Type					Basic Dimension mm				Load Rating kN		Weight kg
Open	Shielded	Sealed	With stop groove	With located snap ring	d	D	B	r s min	Cr	Cor	
6811	ZZ	2RS	N	NR	55	72	9	0.3	9.10	8.40	0.070
6812	ZZ	2RS	N	NR	60	78	10	0.3	9.10	8.70	0.093
6813	ZZ	2RS	N	NR	65	85	10	0.6	11.9	11.5	0.130
6814	ZZ	2RS	N	NR	70	90	10	0.6	12.1	11.9	0.138
6815	ZZ	2RS	N	NR	75	92	10	0.6	12.5	12.8	0.147
6816	ZZ	2RS	N	NR	80	100	10	0.6	12.7	13.3	0.155
6900	ZZ	2RS	N	NR	10	22	6	0.3	2.70	1.27	0.009
6901	ZZ	2RS	N	NR	12	24	6	0.3	2.90	1.46	0.011
6902	ZZ	2RS	N	NR	15	28	7	0.3	4.40	2.06	0.016
6903	ZZ	2RS	N	NR	17	30	7	0.3	4.65	2.58	0.018
6904	ZZ	2RS	N	NR	20	37	9	0.3	6.40	3.70	0.036
6905	ZZ	2RS	N	NR	25	42	9	0.3	7.05	4.55	0.041
6906	ZZ	2RS	N	NR	30	47	9	0.3	7.25	5.00	0.045
6907	ZZ	2RS	N	NR	35	55	10	0.6	11.20	7.45	0.037
6908	ZZ	2RS	N	NR	40	62	12	0.6	13.9	9.90	0.109
6909	ZZ	2RS	N	NR	45	68	12	0.6	14.0	10.9	0.122
6910	ZZ	2RS	N	NR	50	72	12	0.6	14.6	11.7	0.127
6911	ZZ	2RS	N	NR	55	80	13	1	16.0	13.2	0.181
6912	ZZ	2RS	N	NR	60	85	13	1	16.4	14.2	0.195
6913	ZZ	2RS	N	NR	65	90	13	1	16.0	15.0	0.196
6914	ZZ	2RS	N	NR	70	100	16	1	23.7	21.1	0.342
6915	ZZ	2RS	N	NR	75	105	16	1	24.3	22.5	0.355
6916	ZZ	2RS	N	NR	80	110	16	1	24.9	23.9	0.375
6917	ZZ	2RS	N	NR	85	120	18	1.1	31.9	29.7	0.507

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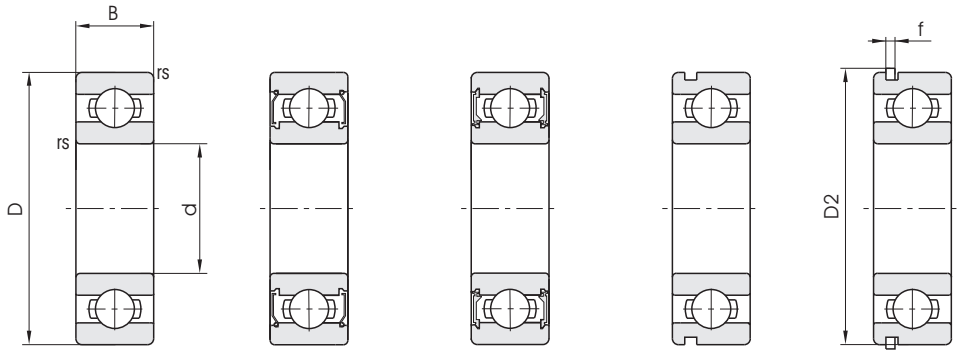
Deep Groove Ball Bearing



Bearing Type					Basic Dimension mm						Load Rating kN		Weight kg
Open	Shielded	Sealed	With stop groove	With located snap ring	d	D	B	r s min	D2 (max)	f (max)	Cr	Cor	
6000	ZZ	2RS	N	NR	10	26	8	0.3	29.2	0.7	4.55	1.97	0.018
6001	ZZ	2RS	N	NR	12	28	8	0.3	30.8	0.85	5.00	2.30	0.021
6002	ZZ	2RS	N	NR	15	32	9	0.3	36.7	1.12	5.50	2.80	0.030
6003	ZZ	2RS	N	NR	17	35	10	0.3	39.7	1.12	6.00	3.25	0.040
6004	ZZ	2RS	N	NR	20	42	12	0.6	46.3	1.12	9.38	5.03	0.068
6005	ZZ	2RS	N	NR	25	47	12	0.6	52.7	1.12	10.1	5.83	0.079
6006	ZZ	2RS	N	NR	30	55	13	1	60.7	1.12	13.2	8.30	0.113
6007	ZZ	2RS	N	NR	35	62	14	1	67.7	1.7	16.2	10.4	0.149
6008	ZZ	2RS	N	NR	40	68	15	1	74.6	1.7	17.0	11.7	0.185
6009	ZZ	2RS	N	NR	45	75	16	1	81.6	1.7	21.0	14.8	0.231
6010	ZZ	2RS	N	NR	50	80	16	1	86.6	1.7	22.0	16.3	0.250
6011	ZZ	2RS	N	NR	55	90	18	1.1	96.5	2.46	30.3	22.0	0.362
6012	ZZ	2RS	N	NR	60	95	18	1.1	101.6	2.46	31.7	24.2	0.385
6013	ZZ	2RS	N	NR	65	100	18	1.1	106.5	2.46	32.0	24.8	0.430
6014	ZZ	2RS	N	NR	70	110	20	1.1	116.6	2.46	38.6	30.4	0.569
6015	ZZ	2RS	N	NR	75	115	20	1.1	121.6	2.46	40.2	33.2	0.603
6016	ZZ	2RS	N	NR	80	125	22	1.1	134.7	2.82	47.5	39.8	0.821
6017	ZZ	2RS	N	NR	85	130	22	1.1	139.7	2.82	50.8	42.8	0.848
6018	ZZ	2RS	N	NR	90	140	24	1.5	149.7	2.82	58.0	49.9	1.12
6019	ZZ	2RS	N	NR	95	145	24	1.5	154.7	2.82	57.7	50.0	1.18
6020	ZZ	2RS	N	NR	100	150	24	1.5	159.7	2.82	60.5	54.0	1.25
6021	ZZ	2RS	N	NR	105	160	26	2	169.7	2.82	72.8	65.5	1.60

Bearing Type					Basic Dimension mm						Load Rating kN		Weight kg
Open	Shielded	Sealed	With stop groove	With located snap ring	d	D	B	r s min	D2 (max)	f (max)	Cr	Cor	
6022	ZZ	2RS	N	NR	110	170	28	2	182.9	3.1	81.9	72.9	1.93
6024	ZZ	2RS	N	NR	120	180	28	2	192.9	3.1	87.7	79.3	2.03
6026	ZZ	2RS	N	NR	130	200	33	2	212.9	3.1	105	96.8	3.15
6028	ZZ	2RS	N	NR	140	210	33	2	22.8	3.1	111	108	3.35
6030	ZZ	2RS	N	NR	150	225	35	2.1	237	3.5	125	125	4.80
6032	ZZ	2RS	-	-	160	240	38	2.1			137	135	5.15
6034	ZZ	2RS	-	-	170	260	42	2.1			161	161	6.89
6036	ZZ	2RS	-	-	180	280	46	2.1			180	185	8.88
6038	ZZ	2RS	-	-	190	290	46	2.1			188	201	9.39
6040	ZZ	2RS	-	-	200	310	51	2.1			207	226	12
6044	ZZ	2RS	-	-	220	340	56	3			235	271	18.6
6048	ZZ	2RS	-	-	240	360	56	3			244	296	19.9
6052	ZZ	2RS	-	-	260	400	65	4			291	375	29.4
6056	ZZ	2RS	-	-	280	420	65	4			300	410	31.2
6060	ZZ	2RS	-	-	300	460	74	4			355	500	44.2
6201	ZZ	2RS	N	NR	12	32	10	0.6	36.7	1.12	6.00	2.70	0.036
6202	ZZ	2RS	N	NR	15	35	11	0.6	39.7	1.12	7.80	3.75	0.045
6203	ZZ	2RS	N	NR	17	40	12	0.6	44.6	1.12	9.56	4.75	0.065
6204	ZZ	2RS	N	NR	20	47	14	1	52.7	1.12	12.7	6.55	0.103
6205	ZZ	2RS	N	NR	25	52	15	1	57.9	1.12	14.0	7.80	0.127
6206	ZZ	2RS	N	NR	30	62	16	1	87.7	1.7	19.5	11.2	0.203
6207	ZZ	2RS	N	NR	35	72	17	1.1	78.6	1.7	25.5	15.3	0.285
6208	ZZ	2RS	N	NR	40	80	18	1.1	86.6	1.7	30.7	19.0	0.367
6209	ZZ	2RS	N	NR	45	85	19	1.1	91.6	1.7	33.2	21.6	0.416
6210	ZZ	2RS	N	NR	50	90	20	1.1	96.5	2.46	35.1	23.2	0.462
6211	ZZ	2RS	N	NR	55	100	21	1.5	106.5	2.46	43.4	29.2	0.607
6212	ZZ	2RS	N	NR	60	110	22	1.5	116.6	2.46	47.5	32.5	0.783
6213	ZZ	2RS	N	NR	65	120	23	1.5	129.7	2.82	55.9	40.5	0.990
6214	ZZ	2RS	N	NR	70	125	24	1.5	134.7	2.82	60.5	45.0	1.10
6215	ZZ	2RS	N	NR	75	130	25	1.5	139.7	2.82	66.3	49.0	1.20
6216	ZZ	2RS	N	NR	80	140	26	2	149.7	2.82	70.2	55.0	1.40
6217	ZZ	2RS	N	NR	85	150	28	2	159.7	2.82	83.2	64.0	1.80
6218	ZZ	2RS	N	NR	90	160	30	2	169.7	2.82	95.6	73.5	2.15
6219	ZZ	2RS	N	NR	95	170	32	2.1	182.9	3.1	108	81.5	2.6
6220	ZZ	2RS	N	NR	100	180	34	2.1	192.9	3.1	122	92.7	3.20

Bearing Type					Basic Dimension mm						Load Rating kN		Weight kg
Open	Shielded	Sealed	With stop groove	With located snap ring	d	D	B	r s min	D2 (max)	f (max)	Cr	Cor	
6221	ZZ	2RS	N	NR	105	190	36	2.1	202.9	3.1	133	104	3.71
6222	ZZ	2RS	N	NR	110	200	38	2.1	212.9	3.1	144	117	4.44
6224	ZZ	2RS	N	NR	120	215	40	2.1	227.8	3.1	155	130	5.32
6226	ZZ	2RS	N	NR	130	230	40	3	242	3.5	165	147	6.13
6228	ZZ	2RS	N	NR	140	250	42	3	262	3.5	165	125	7.45
6230	ZZ	2RS	-	-	150	270	45	3	-	-	174	137	9.40
6232	ZZ	2RS	-	-	160	290	68	3	-	-	185	186	12.8
6234	ZZ	2RS	-	-	170	310	62	4	-	-	212	224	15.8
6236	ZZ	2RS	-	-	180	320	52	4	-	-	227	241	15.9
6238	ZZ	2RS	-	-	190	340	55	4	-	-	255	282	22.3
6240	ZZ	2RS	-	-	200	360	58	4	-	-	269	310	26.7
6244	ZZ	2RS	-	-	220	400	65	4	-	-	310	375	37.4
6248	ZZ	2RS	-	-	240	440	72	4	-	-	340	430	50.5
6252	ZZ	2RS	-	-	260	480	80	5	-	-	400	540	67
6256	ZZ	2RS	-	-	280	500	80	5	-	-	400	550	70.4
6260	ZZ	2RS	-	-	300	540	85	5	-	-	465	670	87.8
6301	ZZ	2RS	N	NR	12	37	12	1	41.3	1.12	9.7	4.20	0.060
6302	ZZ	2RS	N	NR	15	42	13	1	46.3	1.12	11.4	5.40	0.082
6303	ZZ	2RS	N	NR	17	47	14	1	52.7	1.12	13.5	6.55	0.115
6304	ZZ	2RS	N	NR	20	52	15	1.1	57.9	1.12	15.9	7.80	0.141
6305	ZZ	2RS	N	NR	25	62	17	1.1	67.7	1.7	22.5	11.6	0.219
6306	ZZ	2RS	N	NR	30	72	19	1.1	78.6	1.7	28.1	16.0	0.350
6307	ZZ	2RS	N	NR	35	80	21	1.5	86.6	1.7	33.2	19.0	0.454
6308	ZZ	2RS	N	NR	40	90	23	1.5	96.5	2.46	31.4	22.4	0.639
6309	ZZ	2RS	N	NR	45	100	25	1.5	106.5	2.46	52.7	31.5	0.836
6310	ZZ	2RS	N	NR	50	110	27	2	116.6	2.46	61.8	38.0	1.05
6311	ZZ	2RS	N	NR	55	120	29	2	129.7	2.82	71.5	45.0	1.35
6312	ZZ	2RS	N	NR	60	130	31	2.1	139.7	2.82	81.9	52.0	1.70
6313	ZZ	2RS	N	NR	65	140	33	2.1	149.7	2.82	92.3	60.0	2.10
6314	ZZ	2RS	N	NR	70	150	35	2.1	159.7	2.82	104	68.0	2.50
6315	ZZ	2RS	N	NR	75	160	37	2.1	169.7	2.82	114	76.5	3.00
6316	ZZ	2RS	N	NR	80	170	39	2.1	182.9	3.1	124	86.5	3.60
6317	ZZ	2RS	N	NR	85	180	41	3	192.9	3.1	133	96.5	4.25
6318	ZZ	2RS	N	NR	90	190	43	3	202.9	3.1	143	108	4.90
6319	ZZ	2RS	N	NR	95	200	45	3	212.9	3.1	153	119	5.75

Bearing Type					Basic Dimension mm						Load Rating kN		Weight kg
Open	Shielded	Sealed	With stop groove	With located snap ring	d	D	B	$r_{s\,min}$	D2 (max)	f (max)	Cr	Cor	
6320	ZZ	2RS	N	NR	100	215	47	3	227.8	3.1	174	140	7.00
6321	ZZ	2RS	-	-	105	225	49	3	237	3.5	182	153	8.25
6322	ZZ	2RS	-	-	110	240	50	3	252	3.5	205	178	9.54
6324	ZZ	2RS	-	-	120	260	55	3	-	-	228	207	12.2
6326	ZZ	2RS	-	-	130	280	58	4	-	-	229	216	18.0
6328	ZZ	2RS	-	-	140	300	62	4	-	-	251	245	22.0
6330	ZZ	2RS	-	-	150	320	65	4	-	-	274	284	22.7
6332	ZZ	2RS	-	-	160	340	68	4	-	-	278	287	26.2
6334	ZZ	2RS	-	-	170	360	72	4	-	-	325	355	36.6
6336	ZZ	2RS	-	-	180	380	75	4	-	-	355	405	43.1
6338	ZZ	2RS	-	-	190	400	78	5	-	-	355	415	49.7
6340	ZZ	2RS	-	-	200	420	80	5	-	-	380	445	55.3
6344	ZZ	2RS	-	-	220	460	88	5	-	-	410	520	73.9
6348	ZZ	2RS	-	-	240	500	95	5	-	-	470	625	94.4
6352	ZZ	2RS	N	NR	260	540	102	6	-	-	505	710	118
6356	ZZ	2RS	N	NR	280	580	108	6	-	-	570	840	144

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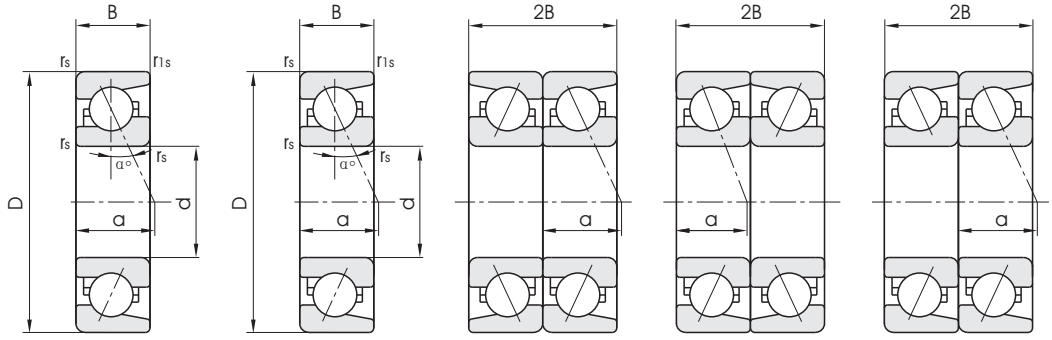
Angular Contact Ball Bearing(Super-Slim)



C: angle α=15°
AC: angle α=25°

B: angle α=40°

Back-to-back
DB

Face-to-face
DF

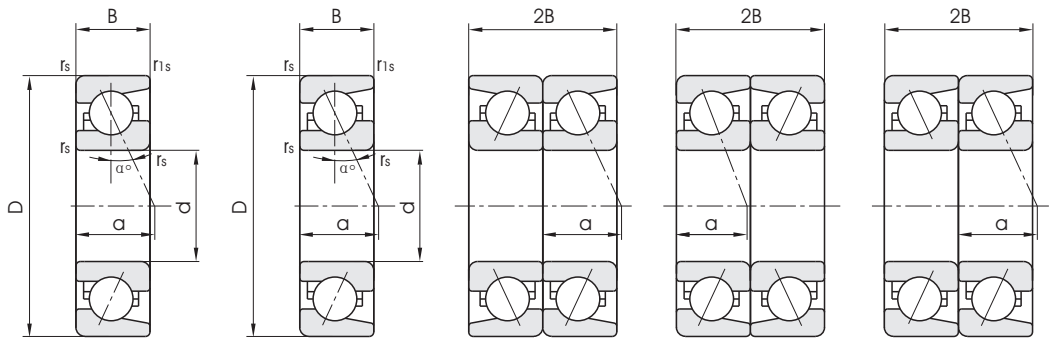
Single & Tandem
DT

Bearing Type	Basic Dimension mm					Point of action mm	Limited Speeds rpm		Load Rating kN		Weight kg
	d	D	B	r s min	r 1s min	a	Grease	Oil	Cr	Cor	
71805C	25	37	7	0.3	0.15	7.7	21500	27700	4.40	3.92	0.025
71805AC	25	37	7	0.3	0.15	10.7	18400	24600	4.13	3.66	0.025
71806C	30	42	7	0.3	0.15	8.3	18500	23800	4.73	4.62	0.029
71806AC	30	42	7	0.3	0.15	11.9	15900	21200	4.44	4.32	0.029
71807C	35	47	7	0.3	0.15	9	16300	20900	4.92	5.14	0.034
71807AC	35	47	7	0.3	0.15	13.1	13900	18600	4.62	4.81	0.034
71808C	40	52	7	0.3	0.15	9.7	14500	18600	5.20	5.84	0.040
71808AC	40	52	7	0.3	0.15	14.2	12400	16600	4.88	5.46	0.040
71809C	45	58	7	0.3	0.15	10.4	12900	16600	6.54	7.52	0.051
71809AC	45	58	7	0.3	0.15	15.5	11100	14800	6.14	7.03	0.051
71810C	50	65	7	0.3	0.15	11.2	11600	14900	6.85	8.41	0.068
71810AC	50	65	7	0.3	0.15	16.9	9900	13200	6.44	7.87	0.068
71811C	55	72	9	0.3	0.15	13	10500	13500	9.38	11.4	0.109
71811AC	55	72	9	0.3	0.15	19.3	9000	12000	8.81	10.7	0.109
71812C	60	78	10	0.3	0.15	14.2	9600	12400	9.69	12.4	0.139
71812AC	60	78	10	0.3	0.15	21.1	8300	11000	9.11	11.6	0.139
71813C	65	85	10	0.6	0.15	15	8900	11400	12.5	16.0	0.198
71813AC	65	85	10	0.6	0.15	22.5	7600	10100	11.8	15.0	0.198
71814C	70	90	10	0.6	0.15	15.7	8300	10700	13.0	17.4	0.217
71814AC	70	90	10	0.6	0.15	23.7	7100	9500	12.2	16.2	0.217
71815C	75	95	10	0.6	0.15	16.4	7800	10100	13.2	18.2	0.226
71815AC	75	95	10	0.6	0.15	24.8	6700	8900	12.4	17.1	0.226

Bearing Type	Basic Dimension mm					Point of action mm	Limited Speeds rpm		Load Rating kN		Weight kg
	d	D	B	r s min	r 1s min	a	Grease	Oil	Cr	Cor	
71816C	80	100	10	0.6	0.15	17.1	7400	9500	13.7	19.6	0.245
71816AC	80	100	10	0.6	0.15	26	6300	8400	12.8	18.3	0.245
71817C	85	110	13	1	0.3	19.6	6800	8800	20.4	28.1	0.404
71817AC	85	110	13	1	0.3	29.2	5800	7800	19.2	26.2	0.404
71818C	90	115	13	1	0.3	20.2	6500	8300	20.8	29.5	0.426
71905C	25	42	9	0.3	0.15	9	25600	28100	7.35	6.33	0.056
71905AC	25	42	9	0.3	0.15	12.3	22800	25500	6.91	5.91	0.056
71906C	30	47	9	0.3	0.15	9.7	22300	24300	7.61	6.96	0.064
71906AC	30	47	9	0.3	0.15	13.5	19800	22100	7.14	6.50	0.064
71907C	35	55	10	0.6	0.15	11	19000	21800	10.3	9.95	0.117
71907AC	35	55	10	0.6	0.15	15.5	16900	18900	9.73	9.29	0.117
71908C	40	62	12	0.6	0.15	12.8	16800	18500	14.4	14.0	0.164
71908AC	40	62	12	0.6	0.15	17.9	14900	17900	13.6	13.1	0.164
71909C	45	68	12	0.6	0.15	13.6	15200	17200	15.0	15.3	0.194
71909AC	45	68	12	0.6	0.15	19.2	13500	16400	14.1	14.3	0.194
71910C	50	72	12	0.6	0.15	14.4	13700	15300	15.9	17.3	0.213
71910AC	50	72	12	0.6	0.15	20.6	12200	14500	14.9	16.1	0.213
71911C	55	80	13	1	0.3	15.5	12700	13900	17.5	19.3	0.278
71911AC	55	80	13	1	0.3	22.2	11300	13100	16.4	18.1	0.278
71912C	60	85	13	1	0.3	16.2	11800	12600	18.0	20.8	0.301
71912AC	60	85	13	1	0.3	23.4	9000	10500	16.9	19.4	0.301
71913C	65	90	13	1	0.3	16.9	8600	11000	18.6	22.2	0.316
71913AC	65	90	13	1	0.3	24.6	7300	9800	17.4	20.8	0.316
71914C	70	100	16	1	0.3	19.4	7800	10100	26.2	31.1	0.555
71914AC	70	100	16	1	0.3	27.8	6700	8900	24.6	29.1	0.555
71915C	75	105	16	1	0.3	20.1	7400	9500	26.4	32.2	0.574
71915AC	75	105	16	1	0.3	29	6300	8400	24.8	30.1	0.571
71916C	80	110	16	1	0.3	20.7	7000	9000	27.2	34.4	0.616
71916AC	80	110	16	1	0.3	30.1	6000	8000	25.6	32.1	0.616
71917C	85	120	18	1.1	0.6	22.7	6500	8300	36.1	45.1	0.904
71917AC	85	120	18	1.1	0.6	32.9	5500	7400	33.9	42.1	0.904
71918C	90	125	18	1.1	0.6	23.4	6200	7900	36.4	46.6	0.930
71918AC	90	125	18	1.1	0.6	34.1	5300	7100	34.2	43.5	0.930
71919C	95	130	18	1.1	0.6	24.1	5900	7600	37.6	49.6	0.992
71919AC	95	130	18	1.1	0.6	35.2	5000	6700	35.3	46.4	0.992

SNBO
Innovation in Motion

Angular Contact Ball Bearing



C: angle α=15°
AC: angle α=25°

B: angle α=40°

Back-to-back
DB

Face-to-face
DF

Single & Tandem
DT

Bearing Type	Basic Dimension mm					Point of action mm	Limited Speeds rpm		Load Rating kN		Weight kg
	d	D	B	r s min	r 1s min	a	Grease	Oil	Cr	Cor	
7003C	17	35	10	0.3	0.15	8.5	25500	33000	6.61	3.76	0.038
7003AC	17	35	10	0.3	0.15	11.1	22000	29000	6.32	3.53	0.038
7004C	20	42	12	0.6	0.15	10.2	21500	28000	10.47	6.01	0.066
7004AC	20	42	12	0.6	0.15	13.2	18500	25000	10.0	5.58	0.066
7005C	25	47	12	0.6	0.15	10.8	18500	24000	11.68	7.43	0.078
7005AC	25	47	12	0.6	0.15	14.4	16000	21000	11.18	6.89	0.078
7006C	30	55	13	1	0.3	12.3	15500	20000	15.13	10.27	0.112
7006AC	30	55	13	1	0.3	16.5	13500	18000	14.49	9.56	0.112
7007C	35	62	14	1	0.3	13.5	14000	18000	19.45	13.72	0.15
7007AC	35	62	14	1	0.3	18.3	12000	16000	18.6	12.87	0.15
7008C	40	68	15	1	0.3	14.7	12500	16000	20.13	15.07	0.18
7008AC	40	68	15	1	0.3	20.1	11000	14000	19.26	14.14	0.18
7009C	45	75	16	1	0.3	16	11000	14000	25.85	20.21	0.23
7009AC	45	75	16	1	0.3	22	9500	13000	24.83	18.96	0.23
7010C	50	80	16	1	0.3	16.7	10500	13000	26.7	21.73	0.25
7010AC	50	80	16	1	0.3	23.2	8800	12000	25.53	20.38	0.25
7011C	55	90	18	1.1	0.6	18.7	9200	12000	37.29	30.09	0.37
7011AC	55	90	18	1.1	0.6	25.9	7900	10500	35.66	28.24	0.37
7012C	60	95	18	1.1	0.6	19.5	8500	11000	38.38	32.39	0.39
7012AC	60	95	18	1.1	0.6	27.3	7300	9700	36.7	30.39	0.39
7013C	65	100	18	1.1	0.6	20.1	8100	10000	40.25	35.14	0.42
7013AC	65	100	18	1.1	0.6	28.2	7000	9300	38.49	32.97	0.42

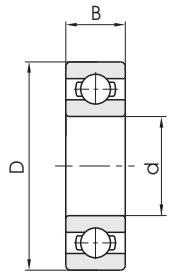
Bearing Type	Basic Dimension mm					Point of action mm	Limited Speeds rpm		Load Rating kN		Weight kg
	d	D	B	r s min	r 1s min	α	Grease	Oil	Cr	Cor	
7014C	70	110	20	1.1	0.6	22.1	7400	9500	48.51	42.96	0.58
7014AC	70	110	20	1.1	0.6	31	6400	8500	46.39	40.31	0.58
7015C	75	115	20	1.1	0.6	22.9	7000	9000	49.74	45.77	0.63
7015AC	75	115	20	1.1	0.6	32.4	6000	8000	47.57	42.95	0.63
7016C	80	125	22	1.1	0.6	24.9	6400	8300	58.85	54.9	0.82
7016AC	80	125	22	1.1	0.6	35.2	5500	7300	56.29	51.51	0.82
7017C	85	130	22	1.1	0.6	25.5	6200	8000	62.83	59.17	0.86
7017AC	85	130	22	1.1	0.6	36.3	5300	7000	60.09	55.52	0.86
7018C	90	140	24	1.5	0.6	27.7	5700	7300	71.82	68.68	1.12
7018AC	90	140	24	1.5	0.6	39.3	4900	6500	67.61	65.81	1.12
7019C	95	145	24	1.5	0.6	28.1	5600	7100	73.91	75.56	1.17
7019AC	95	145	24	1.5	0.6	40	4800	6400	70.68	68.08	1.17
7020C	100	150	24	1.5	0.6	28.7	5300	6900	79.8	77.44	1.25
7203C	17	40	12	0.6	0.3	9.9	23000	30000	10.83	5.78	0.062
7203AC	17	40	12	0.6	0.3	12.8	20000	26000	10.36	5.42	0.062
7203B	17	40	12	0.6	0.3	18.2	16500	23000	9.21	4.58	0.066
7204C	20	47	14	1	0.3	11.6	20000	25000	14.54	8.03	0.10
7204AC	20	47	14	1	0.3	15	17000	22000	13.9	7.53	0.10
7204B	20	47	14	1	0.3	21.5	14000	20000	12.36	6.37	0.11
7205C	25	52	15	1	0.3	12.7	17000	22000	16.57	10.14	0.12
7205AC	25	52	15	1	0.3	16.6	15000	20000	15.85	9.51	0.12
7205B	25	52	15	1	0.3	23.9	12000	17000	14.09	8.04	0.13
7206C	30	62	16	1	0.3	14.2	14000	18000	23.03	14.56	0.19
7206AC	30	62	16	1	0.3	18.8	12000	16000	22.0	13.66	0.19
7206B	30	62	16	1	0.3	27.5	10000	4000	19.56	11.55	0.20
7207C	35	72	17	1.1	0.6	15.7	12500	16000	30.34	19.7	0.27
7207AC	35	72	17	1.1	0.6	21	11000	14000	29.01	18.49	0.27
7207B	35	72	17	1.1	0.6	30.9	9000	12500	25.79	15.63	0.29
7208C	40	80	18	1.1	0.6	17	11000	14000	36.81	25.31	0.35
7208AC	40	80	18	1.1	0.6	23	9500	13000	35.2	23.75	0.35
7208B	40	80	18	1.1	0.6	34.2	8000	11000	31.29	20.07	0.37
7209C	45	85	19	1.1	0.6	18.3	10000	13000	38.67	27.96	0.40
7209AC	45	85	19	1.1	0.6	24.9	8700	12000	36.98	26.24	0.40
7209B	45	85	19	1.1	0.6	37.2	7000	10000	32.88	22.18	0.42
7210C	50	90	20	1.1	0.6	19.4	9500	12000	42.83	31.34	0.45

Bearing Type	Basic Dimension mm					Point of action mm	Limited Speeds rpm		Load Rating kN		Weight kg
	d	D	B	r s min	r 1s min	α	Grease	Oil	Cr	Cor	
7210AC	50	90	20	1.1	0.6	26.3	8200	11000	40.81	30.31	0.45
7210B	50	90	20	1.1	0.6	39.4	6800	9500	36.41	24.85	0.47
7211C	55	100	21	1.1	0.6	20.9	8600	11000	52.98	39.5	0.59
7211AC	55	100	21	1.1	0.6	28.6	7400	9900	50.98	37.06	0.59
7211B	55	100	21	1.5	0.6	43	6200	8600	45.04	31.33	0.61
7212C	60	110	22	1.5	0.6	22.4	7900	10000	61.05	47.7	0.76
7212AC	60	110	22	1.5	0.6	30.8	6700	9000	58.38	44.76	0.76
7212B	60	110	22	1.5	0.6	46.7	5600	7900	51.9	37.83	0.78
7213C	65	120	23	1.5	0.6	23.9	7200	9300	69.88	54.08	0.95
7213AC	65	120	23	1.5	0.6	33.1	6200	8300	66.83	50.74	0.95
7213B	65	120	23	1.5	0.6	50.3	5200	7200	59.41	42.89	0.98
7214C	70	125	24	1.5	0.6	25.3	6800	8700	72.98	59.3	1.04
7214AC	70	125	24	1.5	0.6	35.1	5800	7700	69.8	55.64	1.04
7214B	70	125	24	1.5	0.6	53.5	4800	6800	62.05	47.02	1.10
7215C	75	130	25	1.5	0.6	26.5	6400	8200	79.29	65.19	1.14
7215AC	75	130	25	1.5	0.6	36.9	5500	7300	75.83	61.17	1.14
7215B	75	130	25	1.5	0.6	56.3	4600	6400	67.41	51.7	1.18
7216C	80	140	26	2	1	27.9	6000	7700	89.65	76.28	1.39
7216AC	80	140	26	2	1	38.9	5200	6900	85.74	71.57	1.39
7216B	80	140	26	2	1	59.6	4300	6000	76.22	60.49	1.45
7217C	85	150	28	2	1	59.9	5600	7200	99.85	84.21	1.73
7217AC	85	150	28	2	1	41.7	4800	6400	95.5	79.01	1.73
7217B	85	150	28	2	1	63.9	4000	5600	84.89	66.78	1.80
7218C	90	160	30	2	1	31.7	5300	6900	122.7	103.5	2.13
7218AC	90	160	30	2	1	44.1	4600	6100	117.4	97.14	2.13
7218B	90	160	30	2	1	67.4	3800	5300	104.3	82.1	2.20
7219C	95	170	32	2.1	1.1	33.8	5000	6500	134.6	112.2	2.58
7219AC	95	170	32	2.1	1.1	46.9	4300	5800	128.3	108.2	2.58
7219B	95	170	32	2.1	1.1	71.6	3600	5000	114.4	88.99	2.66
7220C	100	180	34	2.1	1.1	35.8	4800	6100	149.1	125.3	3.08
7220AC	100	180	34	2.1	1.1	49.6	4100	5500	142.6	117.6	3.08
7220B	100	180	34	2.1	1.1	75.7	3400	4800	126.8	99.43	3.17
7302AC	15	42	13	1	0.3	13.4	19000	26000	12.62	6.33	0.06
7302B	15	42	13	1	0.3	18.9	16000	23000	11.22	5.35	0.07
7303AC	17	47	14	1	0.3	14.6	17000	23000	14.98	7.66	0.11

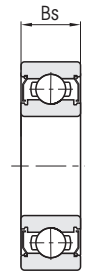
Bearing Type	Basic Dimension mm					Point of action mm	Limited Speeds rpm		Load Rating kN		Weight kg
	d	D	B	r s min	r 1s min	α	Grease	Oil	Cr	Cor	
7303B	17	47	14	1	0.3	20.6	15000	21000	13.32	6.47	0.12
7304AC	20	52	15	1.1	0.6	15.9	16000	21000	17.9	9.62	0.14
7304B	20	52	15	1.1	0.6	22.6	13000	19000	16.15	8.7	0.15
7305AC	25	62	17	1.1	0.6	18.6	13000	18000	25.17	14.04	0.22
7305B	25	62	17	1.1	0.6	26.8	11000	15000	21.98	11.33	0.23
7306AC	30	72	19	1.1	0.6	21.6	11000	15000	29.51	17.91	0.33
7306B	30	72	19	1.1	0.6	31.3	9200	13000	25.99	14.54	0.35
7307AC	35	80	21	1.5	0.6	24.1	9800	13000	38.82	24.72	0.44
7307B	35	80	21	1.5	0.6	35	8200	11000	34.63	22.1	0.46
7308AC	40	90	23	1.5	0.6	26.8	8700	11500	47.45	31.15	0.61
7308B	40	90	23	1.5	0.6	39	7300	10000	41.75	25.28	0.64
7309AC	45	100	25	1.5	0.6	29.4	7900	10500	60.9	39.46	0.83
7309B	45	100	25	1.5	0.6	42.9	6600	9200	54.14	33.35	0.86
7310AC	50	110	27	2	1	32.3	7100	9500	72.13	49.24	1.05
7310B	50	110	27	2	1	47.3	5900	8300	64.35	43.88	1.10
7311AC	55	120	29	2	1	35.1	6500	8600	83.4	58.04	1.34
7311B	55	120	29	2	1	51.6	5400	7600	73.31	46.95	1.40
7312AC	60	130	31	2.1	1.1	67.6	6000	8000	99.99	70.48	1.68
7312B	60	130	31	2.1	1.1	55.4	5000	7000	88.89	59.57	1.75
7313AC	65	140	33	2.1	1.1	40.4	5600	7500	113.3	81.11	2.06
7313B	65	140	33	2.1	1.1	59.5	4700	6500	100.7	68.56	2.14
7314AC	70	150	35	2.1	1.1	43.1	5200	6900	121.2	88.25	2.50
7314B	70	150	35	2.1	1.1	63.7	4300	6100	106.8	71.65	2.60
7315AC	75	160	37	2.1	1.1	45.9	4900	6500	138.7	104.6	3.09
7315B	75	160	37	2.1	1.1	67.8	4400	5700	123.3	88.43	3.18
7316AC	80	170	39	2.1	1.1	48.6	4600	6100	150.3	117.5	3.55
7316B	80	170	39	2.1	1.1	71.9	3800	5300	133.6	99.37	3.65
7317AC	85	180	41	3	1.1	51.4	4300	5800	153.1	121	4.18
7317B	85	180	41	3	1.1	76.1	3600	5000	136.1	102.3	4.28
7318AC	90	190	43	3	1.1	54.4	4100	5500	174.4	146.5	4.88
7318B	90	190	43	3	1.1	80.2	3400	4800	155.0	123.8	5.00
7319AC	95	200	45	3	1.1	56.9	3900	5200	191.6	165.0	5.65
7319B	95	200	45	3	1.1	84.4	3200	4500	170.3	140.1	5.80
7320AC	100	215	47	3	1.1	60.2	3600	4900	211.5	190.8	6.90
7320B	100	215	47	3	1.1	89.6	3000	4200	188.0	161.3	7.10
7321AC	105	225	49	3	1.1	72.1	3500	4400	208.0	193.0	8.62

SNBO
Innovation in Motion

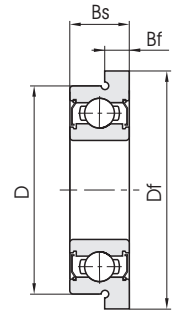
Miniature Bearing



Open



Sealed



FLANDED

Bearing Type	Basic Dimension mm				Load Rating kN		Flange Dia. Df		Flange Width Bf		Weight g	
	d	D	B Open	Bs Sealed	Cr	Cor	Open mm	Sealed mm	Open mm	Sealed mm	Open	Sealed
MR63	3	6	2.0	2.5	242	94	7.2	7.2	0.6	0.6	0.20	0.26
683	3	7	2.0	3.0	390	130	8.1	8.1	0.5	0.8	0.33	0.38
MR83	3	8	2.5	3.0	560	180	9.2	-	0.6	0.8	0.52	0.60
693	3	8	3.0	4.0	560	180	9.5	9.5	0.7	0.9	0.61	0.72
MR93	3	9	2.5	4.0	635	219	10.2	10.6	0.6	0.8	0.71	0.79
603	3	9	3.0	5.0	635	219	10.5	10.5	0.7	1.0	0.92	1.00
623	3	10	4.0	4.0	640	224	11.5	11.5	1.0	1.0	1.60	1.80
633	3	13	5.0	5.0	1301	488	15.0	15.0	1.0	1.0	3.27	3.43
MR74	4	7	2.0	2.5	311	117	8.2	8.2	0.6	0.6	0.28	0.35
MR84	4	8	2.0	3.0	395	141	9.2	9.2	0.6	0.6	0.38	0.46
684	4	9	2.5	4.0	641	227	10.3	10.3	0.6	1.0	0.67	0.76
MR104	4	10	3.0	4.0	711	272	11.2	11.6	0.6	0.8	1.0	1.1
694	4	11	4.0	4.0	957	350	12.5	12.5	1.0	1.0	1.80	2.00
604	4	12	4.0	4.0	970	360	13.5	13.5	1.0	1.0	2.1	2.3
624	4	13	5.0	5.0	1310	490	15.0	15.0	1.0	1.0	3.2	3.5
634	4	16	5.0	5.0	1760	680	18.0	18.0	1.0	1.0	5.1	5.44
MR85	5	8	2.0	2.5	308	124	9.2	9.2	0.6	0.6	0.32	0.4
MR95	5	9	2.5	3.0	500	211	10.2	10.2	0.6	0.6	0.55	0.63
MR105	5	10	3.0	4.0	715	276	11.2	11.6	0.6	0.8	0.88	0.97
MR115	5	11	-	4.0	716	282	12.6	12.6	-	0.8	1.8	2.0
685	5	11	3.0	5.0	716	282	12.5	12.5	0.8	1.0	1.1	1.3
698	5	13	4.0	4.0	1080	432	15.0	15.0	1.0	1.0	2.4	2.7

Bearing Type	Basic Dimension mm				Load Rating kN		Flange Dia. Df		Flange Width Bf		Weight g	
	d	D	B Open	Bs Sealed	Cr	Cor	Open mm	Sealed mm	Open mm	Sealed mm	Open	Sealed
605	5	14	5.0	5.0	1330	507	16.0	16.0	1.0	1.0	3.5	3.9
625	5	16	5.0	5.0	1760	680	18.0	18.0	1.0	1.0	4.8	5.2
635	5	19	6.0	6.0	2340	896	22.0	22.0	1.5	1.5	8.0	8.89
MR106	6	10	2.5	3.0	530	240	11.2	11.2	0.6	0.6	0.65	0.74
MR126	6	12	3.0	4.0	830	365	13.2	13.6	0.6	0.8	1.3	1.4
686	6	13	3.5	5.0	1082	442	15.0	15.0	1.0	1.1	1.9	2.2
696	6	15	5.0	5.0	1350	530	17.0	17.0	1.2	1.2	3.8	4.3
606	6	17	6.0	6.0	2263	865	19.0	19.0	1.2	1.2	6.0	6.5
626	6	19	6.0	6.0	2340	896	22.0	22.0	1.5	1.5	8.1	9.2
MR117	7	11	2.5	3.0	555	269	12.2	12.2	0.6	0.6	0.67	0.77
MR137	7	13	3.0	4.0	825	375	14.2	14.2	0.6	0.8	1.4	1.5
687	7	14	3.5	5.0	1173	513	16.0	16.0	1.0	1.1	2.1	2.4
697	7	17	5.0	5.0	1610	719	19.0	19.0	1.2	1.2	5.2	5.7
607	7	19	6.0	6.0	2336	910	22.0	22.0	1.5	1.5	8.0	8.24
627	7	22	7.0	7.0	3350	1400	25.0	22.0	1.5	1.5	13	13.10
MR128	8	12	2.5	3.5	575	298	13.2	13.6	0.6	0.8	0.75	0.86
MR148	8	14	3.5	4.0	820	386	15.6	15.6	0.8	0.8	1.8	1.9
688	8	16	4.0	5.0	1260	592	18.0	18.0	1.0	1.1	3.1	3.5
698	8	19	6.0	6.0	2240	910	22.0	22.0	1.5	1.5	7.3	8.4
608	8	22	7.0	7.0	3350	1400	25.0	25.0	1.5	1.5	12	13
628	8	24	8.0	8.0	4000	1590	-	-	-	-	17	18.50
609	9	24	7.0	7.0	3400	1450	27.0	-	1.5	1.5	14	16.00
629	9	26	8.0	8.0	4575	1983	-	-	-	-	20	21.80

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