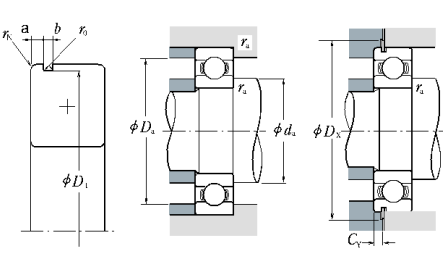
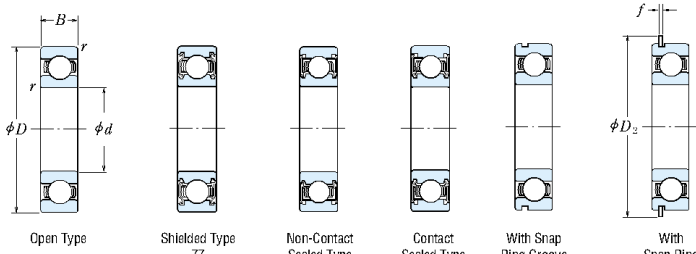


SINGLE-ROW DEEP GROOVE BALL BEARINGS

Bore Diameter 10 – 22 mm



Dynamic Equivalent Load

$P = X F_r + Y F_a$

$\frac{f_0 F_a}{C_{0r}}$	e	$\frac{F_a}{F_r} \leq e$		$\frac{F_a}{F_r} > e$	
		X	Y	X	Y
0.172	0.19	1	0	0.56	2.30
0.345	0.22	1	0	0.56	1.99
0.689	0.26	1	0	0.56	1.71
1.03	0.28	1	0	0.56	1.55
1.38	0.30	1	0	0.56	1.45
2.07	0.34	1	0	0.56	1.31
3.45	0.38	1	0	0.56	1.15
5.17	0.42	1	0	0.56	1.04
6.89	0.44	1	0	0.56	1.00

Static Equivalent Load

$\frac{F_r}{F_r} > 0.8, P_0 = 0.6 F_r + 0.5 F_a$

$\frac{F_r}{F_r} \leq 0.8, P_0 = F_r$

Boundary Dimensions (mm)				Basic Load Ratings (N)				Factor	Limiting Speeds (min ⁻¹)				Bearing Numbers			
d	D	B	r min.	C _r	C _{0r}	C _r	C _{0r}		f ₀	Grease		Oil		Open	Shielded	Sealed
										Open ZZ V V	DU DDU	Open Z	Open ZZ V V			
10	19	5	0.3	1 720	840	175	86	14.8	34 000	24 000	40 000	36 000	6800	ZZ	VV	DD
	22	6	0.3	2 700	1 270	275	129	14.0	32 000	22 000	38 000	36 000	6900	ZZ	VV	DD
	26	8	0.3	4 550	1 970	465	201	12.4	30 000	22 000	36 000	36 000	6000	ZZ	VV	DDU
	30	9	0.6	5 100	2 390	520	244	13.2	24 000	18 000	30 000	30 000	6200	ZZ	VV	DDU
	35	11	0.6	8 100	3 450	825	350	11.2	22 000	17 000	26 000	26 000	6300	ZZ	VV	DDU
12	21	5	0.3	1 920	1 040	195	106	15.3	32 000	20 000	38 000	38 000	6801	ZZ	VV	DD
	24	6	0.3	2 880	1 460	295	149	14.5	30 000	20 000	36 000	36 000	6901	ZZ	VV	DD
	28	7	0.3	5 100	2 370	520	241	13.0	28 000	—	32 000	—	16001	—	—	—
	28	8	0.3	5 100	2 370	520	241	13.0	28 000	18 000	32 000	32 000	6001	ZZ	VV	DDU
	32	10	0.6	6 800	3 050	695	310	12.3	22 000	17 000	28 000	28 000	6201	ZZ	VV	DDU
15	37	12	1	9 700	4 200	990	425	11.1	20 000	16 000	24 000	24 000	6301	ZZ	VV	DDU
	24	5	0.3	2 070	1 260	212	128	15.8	28 000	17 000	34 000	34 000	6802	ZZ	VV	DD
	28	7	0.3	4 350	2 260	440	230	14.3	26 000	17 000	30 000	30 000	6902	ZZ	VV	DD
	32	8	0.3	5 600	2 830	570	289	13.9	24 000	—	28 000	—	16002	—	—	—
	32	9	0.3	5 600	2 830	570	289	13.9	24 000	15 000	28 000	28 000	6002	ZZ	VV	DDU
17	35	11	0.6	7 650	3 750	780	380	13.2	20 000	14 000	24 000	24 000	6202	ZZ	VV	DDU
	42	13	1	11 400	5 450	1 170	555	12.3	17 000	13 000	20 000	20 000	6302	ZZ	VV	DDU
	26	5	0.3	2 630	1 570	268	160	15.7	26 000	15 000	30 000	30 000	6803	ZZ	VV	DD
	30	7	0.3	4 600	2 550	470	260	14.7	24 000	15 000	28 000	28 000	6903	ZZ	VV	DDU
	35	8	0.3	6 000	3 250	610	330	14.4	22 000	—	26 000	—	16003	—	—	—
20	35	10	0.3	6 000	3 250	610	330	14.4	22 000	13 000	26 000	26 000	6003	ZZ	VV	DDU
	40	12	0.6	9 550	4 800	975	490	13.2	17 000	12 000	20 000	20 000	6203	ZZ	VV	DDU
	47	14	1	13 600	6 650	1 390	675	12.4	15 000	11 000	18 000	18 000	6303	ZZ	VV	DDU
	32	7	0.3	4 000	2 470	410	252	15.5	22 000	13 000	26 000	26 000	6804	ZZ	VV	DD
	37	9	0.3	6 400	3 700	650	375	14.7	19 000	12 000	22 000	22 000	6904	ZZ	VV	DDU
22	42	8	0.3	7 900	4 450	810	455	14.5	18 000	—	20 000	—	16004	—	—	—
	42	12	0.6	9 400	5 000	955	510	13.8	18 000	11 000	20 000	20 000	6004	ZZ	VV	DDU
	47	14	1	12 800	6 600	1 300	670	13.1	15 000	11 000	18 000	18 000	6204	ZZ	VV	DDU
	52	15	1.1	15 900	7 900	1 620	805	12.4	14 000	10 000	17 000	17 000	6304	ZZ	VV	DDU
	44	12	0.6	9 400	5 050	960	515	14.0	17 000	11 000	20 000	20 000	60/22	ZZ	VV	DDU
22	50	14	1	12 900	6 800	1 320	695	13.5	14 000	9 500	16 000	16 000	62/22	ZZ	VV	DDU
	56	16	1.1	18 400	9 250	1 870	940	12.4	13 000	9 500	16 000	16 000	63/22	ZZ	VV	DDU

Notes (1) For tolerances for the snap ring grooves and snap ring dimensions, refer to Pages A50 to A53.

(2) When heavy axial loads are applied, increase d_a and decrease D_a from the above values.

(3) Ring types N and NR applicable only to open-type bearings.

Notes (1) Snap ring groove dimensions and snap ring dimensions are not conformed to ISO15.

Remarks 1. Diameter Series 7 (extra thin section bearings) are also available, please contact NSK.

2. When using bearings with rotating outer rings, contact NSK if they are sealed, shielded, or have snap rings.