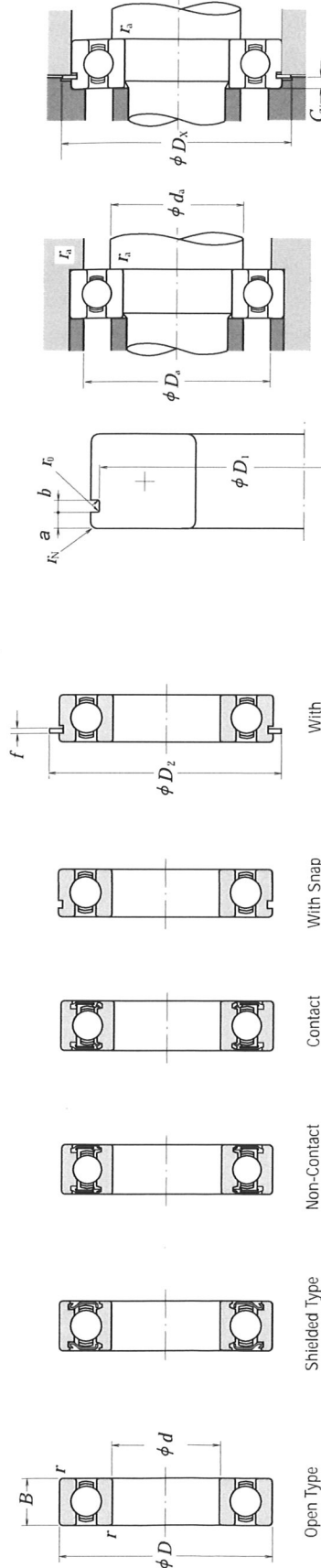


Bore Diameter 10 - 22 mm

Dynamic Equivalent Load

$$P = XF_T + YF_A$$



Boundary Dimensions (mm)				Basic Load Ratings (N)				Basic Load Ratings (kgf)			Factor	Limiting Speeds (min ⁻¹)				Bearing Numbers		
d	D	B	r min.	C _i	C _{0r}	C _r	C _{0r}	C _r	C _{0r}	f ₀		Open Z, VV	Grease DU, DDU	Oil Open Z	Open	Shielded	Sealed	
10	19	5	0.3	1 720	840	175	86	14.8	34 000	24 000	40 000	6800	ZZ	VV	DD			
	22	6	0.3	2 700	1 270	275	129	14.0	32 000	22 000	38 000	6900	ZZ	VV	DD			
	26	8	0.3	4 550	1 970	465	201	12.4	30 000	22 000	36 000	6000	ZZ	VV	DDU			
	30	9	0.6	5 100	2 390	520	244	13.2	24 000	18 000	30 000	6200	ZZ	VV	DDU			
	35	11	0.6	8 100	3 450	825	350	11.2	22 000	17 000	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	6801	ZZ	VV	DD			
	24	6	0.3	2 890	1 460	295	149	14.5	30 000	20 000	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	6001	ZZ	VV	DDU			
	32	10	0.6	6 800	3 050	695	310	12.3	22 000	17 000	28 000	6201	ZZ	VV	DDU			
15	37	12	1	9 700	4 200	990	425	11.1	20 000	16 000	24 000	6301	ZZ	VV	DDU			
	24	5	0.3	2 070	1 260	212	128	15.8	28 000	17 000	34 000	6802	ZZ	VV	DD			
	28	7	0.3	4 350	2 260	440	230	14.3	26 000	17 000	30 000	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	6002	ZZ	VV	DDU			
17	35	11	0.6	7 650	3 750	780	380	13.2	20 000	14 000	24 000	6202	ZZ	VV	DDU			
	42	13	1	11 400	5 450	1 170	555	12.3	17 000	13 000	20 000	6302	ZZ	VV	DDU			
	26	5	0.3	2 630	1 570	268	160	15.7	26 000	15 000	30 000	6803	ZZ	VV	DD			
	30	7	0.3	4 600	2 550	470	260	14.7	24 000	15 000	28 000	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	6003	ZZ	VV	DDU			
	40	12	0.6	9 550	4 800	975	490	13.2	17 000	12 000	20 000	6203	ZZ	VV	DDU			
	47	14	1	13 600	6 650	1 390	675	12.4	15 000	11 000	18 000	6303	ZZ	VV	DDU			
	32	7	0.3	4 000	2 470	410	252	15.5	22 000	13 000	26 000	6804	ZZ	VV	DD			
	37	9	0.3	6 400	3 700	650	375	14.7	19 000	12 000	22 000	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	6004	ZZ	VV	DDU			
	47	14	1	12 800	6 600	1 300	670	13.1	15 000	11 000	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	6304	ZZ	VV	DDU			
22	44	12	0.6	9 400	5 050	960	515	14.0	17 000	11 000	20 000	60/22	ZZ	VV	DDU			
	50	14	1	12 900	6 800	1 320	695	13.5	14 000	9 500	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	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_n and decrease D_n from the above values.

(3) Ring types N and NR applicable only to open-type bearings. Please consult NSK about the snap ring groove dimensions of sealed or shielded bearings.

With Groove	Snap Ring	Snap Ring Groove Dimensions (mm)					Snap Ring (°) Dimensions (mm)			Abutment and Fillet Dimensions (mm)						Mass (kg) approx.
		a	b	D ₁	r ₀	r _N	D ₂	f	d _a (°)	d _a (°)	D _a (°)	r _a	D _s	C _y		
—	—	—	—	—	—	—	—	—	min.	max.	max.	max.	min.	max.	—	
N ⁽³⁾	NR ⁽⁴⁾	1.05	0.8	20.8	0.2	0.2	24.8	0.7	12	12	12	17	0.3	25.5	1.5	
N ⁽⁴⁾	NR	1.35	0.87	24.5	0.2	0.3	28.7	0.84	12	13	12.5	20	0.3	29.4	1.9	
N	NR	2.06	1.35	28.17	0.4	0.5	34.7	1.12	14	16	16	26	0.6	35.5	2.9	
N	NR	2.06	1.35	33.17	0.4	0.5	39.7	1.12	14	14	16.5	31	0.6	40.5	2.9	
—	—	—	—	—	—	—	—	—	14	14	14	19	0.3	—	—	
N ⁽³⁾	NR ⁽⁴⁾	1.05	0.8	22.8	0.2	0.2	26.8	0.7	14	14.5	22	0.3	27.5	1.5	0.006	
N ⁽⁴⁾	NR	1.35	0.87	26.5	0.2	0.3	30.7	0.84	14	15.5	26	0.3	31.4	1.9	0.019	
N	NR	2.06	1.35	30.15	0.4	0.5	36.7	1.12	16	17	28	0.6	37.5	2.9	0.022	
N	NR	2.06	1.35	34.77	0.4	0.5	41.3	1.12	17	18	32	1	42	2.9	0.037	
—	—	—	—	—	—	—	—	—	17	17	22	0.3	—	—	0.060	
N ⁽³⁾	NR ⁽⁴⁾	1.3	0.95	26.7	0.25	0.3	30.8	0.85	17	17	26	0.3	31.5	1.8	0.007	
—	—	—	—	—	—	—	—	—	17	17	30	0.3	—	—	0.015	
N	NR	2.06	1.35	30.15	0.4	0.3	36.7	1.12	17	19	30	0.3	37.5	2.9	0.027	
N	NR	2.06	1.35	33.17	0.4	0.5	39.7	1.12	19	20.5	31	0.6	40.5	2.9	0.031	
N	NR	2.06	1.35	39.75	0.4	0.5	46.3	1.12	20	22.5	37	1	47	2.9	0.045	
—	—	—	—	—	—	—	—	—	19	19	24	0.3	—	—	0.083	
N ⁽³⁾	NR ⁽⁴⁾	1.3	0.95	28.7	0.25	0.3	32.8	0.85	19	19.5	28	0.3	33.5	1.8	0.007	
—	—	—	—	—	—	—	—	—	19	19	33	0.3	—	—	0.017	
N	NR	2.06	1.35	33.17	0.4	0.3	39.7	1.12	19	21.5	33	0.3	40.5	2.9	0.033	
N	NR	2.06	1.35	38.1	0.4	0.5	44.6	1.12	21	23.5	36	0.6	45.5	2.9	0.041	
N	NR	2.46	1.35	44.6	0.4	0.5	52.7	1.12	22	25.5	42	1	53.5	3.3	0.067	
N	NR	1.3	0.95	30.7	0.25	0.3	34.8	0.85	22	22	30	0.3	35.5	1.8	0.113	
N	NR	1.7	0.95	35.7	0.25	0.3	39.8	0.85	22	24	35	0.3	40.5	2.3	0.017	
—	—	—	—	—	—	—	—	—	22	—	40	0.3	—	—	0.037	
N	NR	2.06	1.35	39.75	0.4	0.5	46.3	1.12	24	25.5	38	0.6	47	2.9	0.048	
N	NR	2.46	1.35	44.6	0.4	0.5	52.7	1.12	25	26.5	42	1	53.5	3.3	0.068	
N	NR	2.46	1.35	49.73	0.4	0.5	57.9	1.12	26.5	28	45.5	1	58.5	3.3	0.107	
—	—	—	—	—	—	—	—	—	26	26.5	40	0.6	49	2.9	0.145	
N	NR	2.06	1.35	41.75	0.4	0.5	48.3	1.12	26	29.5	45	1	56.5	3.3	0.074	
N	NR	2.46	1.35	47.6	0.4	0.5	55.7	1.12	27	30.5	49.5	1	62.5	3.3	0.179	
N	NR	2.46	1.35	53.6	0.4	0.5	61.7	1.12	28.5	30.5	49.5	1	62.5	3.3	0.179	

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.

2. *containing bearings with rotating outer rings, attached, or have shafts fitted*