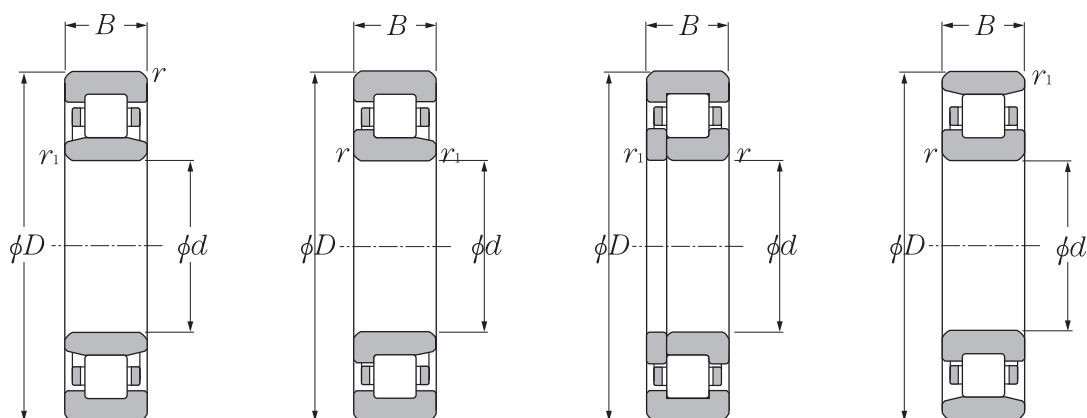


# Cylindrical Roller Bearings



Type NU

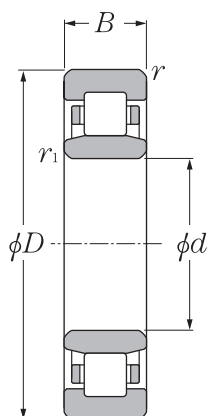
Type NJ

Type NUP

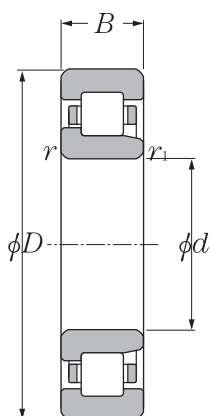
Type N

**d 20~50mm**

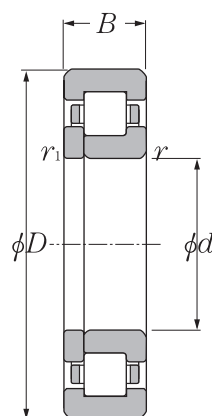
d	Boundary dimensions				Basic load ratings				Limiting speeds		Bearing numbers				Mass kg (approx.)
	mm				dynamic	static	dynamic	static	min <sup>-1</sup>		type	type	type	type	
	D	B	r <sub>s min</sub>	r <sub>1s min</sub>	C <sub>r</sub>	C <sub>or</sub>	C <sub>r</sub>	C <sub>or</sub>	grease	oil	NU	NJ	NUP	N	
20	47	14	1.0	0.6	25.7	22.6	2 620	2 310	15 000	18 000	NU204	NJ	NUP	—	0.122
	47	18	1.0	0.6	30.5	28.3	3 100	2 890	14 000	16 000	NU2204	NJ	NUP	—	0.158
	52	15	1.1	0.6	31.5	26.9	3 200	2 740	13 000	15 000	NU304	NJ	NUP	—	0.176
	52	21	1.1	0.6	42.0	39.0	4 300	3 950	12 000	14 000	NU2304	NJ	NUP	—	0.242
25	52	15	1.0	0.6	29.3	27.7	2 990	2 830	13 000	15 000	NU205	NJ	NUP	—	0.151
	52	18	1.0	0.6	35.0	34.5	3 550	3 550	11 000	13 000	NU2205	NJ	NUP	—	0.186
	62	17	1.1	1.1	41.5	37.5	4 250	3 800	11 000	13 000	NU305	NJ	NUP	—	0.275
	62	24	1.1	1.1	57.0	56.0	5 800	5 700	9 700	11 000	NU2305	NJ	NUP	—	0.386
30	62	16	1.0	0.6	39.0	37.5	4 000	3 800	11 000	13 000	NU206	NJ	NUP	—	0.226
	62	20	1.0	0.6	49.0	50.0	5 000	5 100	9 700	11 000	NU2206	NJ	NUP	—	0.297
	72	19	1.1	1.1	53.0	50.0	5 400	5 100	9 300	11 000	NU306	NJ	NUP	—	0.398
	72	27	1.1	1.1	74.5	77.5	7 600	7 900	8 300	9 700	NU2306	NJ	NUP	—	0.580
35	72	17	1.1	0.6	50.5	50.0	5 150	5 100	9 500	11 000	NU207	NJ	NUP	—	0.327
	72	23	1.1	0.6	61.5	65.5	6 300	6 650	8 500	10 000	NU2207	NJ	NUP	—	0.455
	80	21	1.5	1.1	71.0	71.0	7 200	7 200	8 100	9 600	NU307	NJ	NUP	—	0.545
	80	31	1.5	1.1	99.0	109.0	10 100	11 100	7 200	8 500	NU2307	NJ	NUP	—	0.780
40	80	18	1.1	1.1	43.5	43.0	4 450	4 350	9 400	11 000	NU208	NJ	NUP	N	0.378
	80	23	1.1	1.1	58.0	62.0	5 950	6 300	8 500	10 000	NU2208	NJ	NUP	N	0.490
	90	23	1.5	1.5	58.5	57.0	6 000	5 800	8 000	9 400	NU308	NJ	NUP	N	0.658
	90	33	1.5	1.5	82.5	88.0	8 400	8 950	7 000	8 200	NU2308	NJ	NUP	N	0.951
45	85	19	1.1	1.1	46.0	47.0	4 700	4 800	8 400	9 900	NU209	NJ	NUP	N	0.432
	85	23	1.1	1.1	61.5	68.0	6 250	6 900	7 600	9 000	NU2209	NJ	NUP	N	0.530
	100	25	1.5	1.5	74.0	71.0	7 550	7 250	7 200	8 400	NU309	NJ	NUP	N	0.877
	100	36	1.5	1.5	99.0	104.0	10 100	10 600	6 300	7 400	NU2309	NJ	NUP	N	1.270
50	90	20	1.1	1.1	48.0	51.0	4 900	5 200	7 600	9 000	NU210	NJ	NUP	N	0.470
	90	23	1.1	1.1	64.0	73.5	6 550	7 500	6 900	8 100	NU2210	NJ	NUP	N	0.571
	110	27	2.0	2.0	87.0	86.0	8 850	8 800	6 500	7 700	NU310	NJ	NUP	N	1.140
	110	40	2.0	2.0	121.0	131.0	12 300	13 400	5 700	6 700	NU2310	NJ	NUP	N	1.700



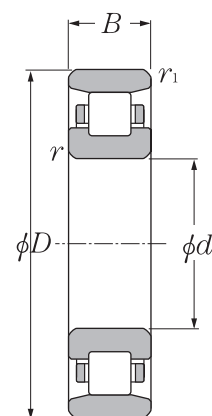
**Type NU**



**Type NJ**



**Type NUP**



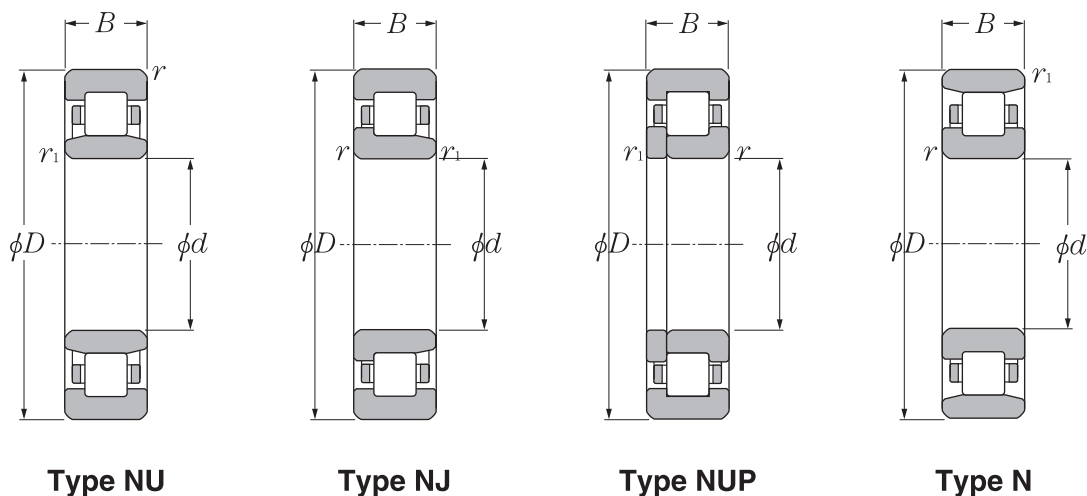
**Type N**

**d 55~85mm**

d	Boundary dimensions				Basic load ratings				Limiting speeds		Bearing numbers				Mass kg (approx.)
	mm				dynamic	static	dynamic	static	min <sup>-1</sup>		type	type	type	type	
	D	B	r <sub>s min</sub>	r <sub>1s min</sub>	C <sub>r</sub>	C <sub>or</sub>	C <sub>r</sub>	C <sub>or</sub>	grease	oil	NU	NJ	NUP	N	
55	100	21	1.5	1.1	58.0	62.5	5 900	6 350	6 900	8 200	NU211	NJ	NUP	N	0.638
	100	25	1.5	1.1	75.5	87.0	7 700	8 900	6 300	7 400	NU2211	NJ	NUP	N	0.773
	120	29	2.0	2.0	111.0	111.0	11 300	11 400	5 900	7 000	NU311	NJ	NUP	N	1.450
	120	43	2.0	2.0	148.0	162.0	15 100	16 500	5 200	6 100	NU2311	NJ	NUP	N	2.170
60	110	22	1.5	1.5	68.5	75.0	7 000	7 650	6 400	7 600	NU212	NJ	NUP	N	0.818
	110	28	1.5	1.5	96.0	116.0	9 800	11 800	5 800	6 800	NU2212	NJ	NUP	N	1.060
	130	31	2.1	2.1	124.0	126.0	12 600	12 900	5 500	6 500	NU312	NJ	NUP	N	1.800
	130	46	2.1	2.1	169.0	188.0	17 200	19 200	4 800	5 700	NU2312	NJ	NUP	N	2.710
65	120	23	1.5	1.5	84.0	94.5	8 550	9 650	5 900	7 000	NU213	NJ	NUP	N	1.020
	120	31	1.5	1.5	120.0	149.0	12 200	15 200	5 400	6 300	NU2213	NJ	NUP	N	1.400
	140	33	2.1	2.1	135.0	139.0	13 800	14 200	5 100	6 000	NU313	NJ	NUP	N	2.230
	140	48	2.1	2.1	188.0	212.0	19 100	21 700	4 400	5 200	NU2313	NJ	NUP	N	3.270
70	125	24	1.5	1.5	83.5	95.0	8 500	9 700	5 500	6 500	NU214	NJ	NUP	N	1.120
	125	31	1.5	1.5	119.0	151.0	12 200	15 400	5 000	5 900	NU2214	NJ	NUP	N	1.470
	150	35	2.1	2.1	158.0	168.0	16 100	17 200	4 700	5 500	NU314	NJ	NUP	N	2.710
	150	51	2.1	2.1	223.0	262.0	22 700	26 700	4 100	4 800	NU2314	NJ	NUP	N	3.980
75	130	25	1.5	1.5	96.5	111.0	9 850	11 300	5 100	6 000	NU215	NJ	NUP	N	1.230
	130	31	1.5	1.5	130.0	162.0	13 200	16 500	4 700	5 500	NU2215	NJ	NUP	N	1.550
	160	37	2.1	2.1	190.0	205.0	19 400	20 900	4 400	5 200	NU315	NJ	NUP	N	3.280
	160	55	2.1	2.1	258.0	300.0	26 300	31 000	3 800	4 500	NU2315	NJ	NUP	N	4.870
80	140	26	2.0	2.0	106.0	122.0	10 800	12 500	4 800	5 700	NU216	NJ	NUP	N	1.500
	140	33	2.0	2.0	147.0	186.0	15 000	19 000	4 400	5 100	NU2216	NJ	NUP	N	1.930
	170	39	2.1	2.1	190.0	207.0	19 400	21 100	4 100	4 800	NU316	NJ	NUP	N	3.860
	170	58	2.1	2.1	274.0	330.0	27 900	34 000	3 600	4 200	NU2316	NJ	NUP	N	5.790
85	150	28	2.0	2.0	120.0	140.0	12 300	14 300	4 500	5 300	NU217	NJ	NUP	N	1.870
	150	36	2.0	2.0	170.0	218.0	17 300	22 200	4 100	4 800	NU2217	NJ	NUP	N	2.440
	180	41	3.0	3.0	212.0	228.0	21 600	23 300	3 900	4 600	NU317	NJ	NUP	N	4.540
	180	60	3.0	3.0	315.0	380.0	32 000	39 000	3 400	4 000	NU2317	NJ	NUP	N	6.700

# Cylindrical Roller Bearings

**KYK**



**d 90~100mm**

d	Boundary dimensions				Basic load ratings				Limiting speeds		Bearing numbers				Mass kg (approx.)
	mm				dynamic	static	dynamic	static	min <sup>-1</sup>		type	type	type	type	
	D	B	r <sub>s min</sub>	r <sub>1s min</sub>	C <sub>r</sub>	C <sub>or</sub>	C <sub>r</sub>	C <sub>or</sub>	grease	oil	NU	NJ	NUP	N	
90	160	30	2.0	2.0	152.0	178.0	15 500	18 100	4 300	5 000	NU218	NJ	NUP	N	2.300
	160	40	2.0	2.0	197.0	248.0	20 100	25 300	3 900	4 600	NU2218	NJ	NUP	N	3.100
	190	43	3.0	3.0	240.0	265.0	24 500	27 100	3 700	4 300	NU318	NJ	NUP	N	5.300
	190	64	3.0	3.0	325.0	395.0	33 500	40 000	3 200	3 800	NU2318	NJ	NUP	N	7.950
95	170	32	2.1	2.1	166.0	195.0	16 900	19 900	4 000	4 700	NU219	NJ	NUP	N	2.780
	170	43	2.1	2.1	230.0	298.0	23 500	30 500	3 600	4 300	NU2219	NJ	NUP	N	3.790
	200	45	3.0	3.0	259.0	285.0	26 400	29 500	3 400	4 000	NU319	NJ	NUP	N	6.130
	200	67	3.0	3.0	370.0	460.0	38 000	47 000	3 000	3 500	NU2319	NJ	NUP	N	9.200
100	180	34	2.1	2.1	183.0	217.0	18 600	22 200	3 800	4 500	NU220	NJ	NUP	N	3.330
	180	46	2.1	2.1	258.0	340.0	26 300	34 500	3 500	4 100	NU2220	NJ	NUP	N	4.570
	215	47	3.0	3.0	299.0	335.0	30 500	34 500	3 300	3 800	NU320	NJ	NUP	N	7.490
	215	73	3.0	3.0	410.0	505.0	42 000	51 500	2 900	3 400	NU2320	NJ	NUP	N	11.700