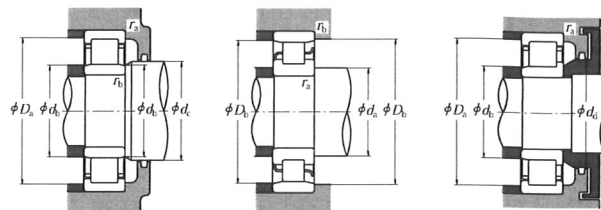
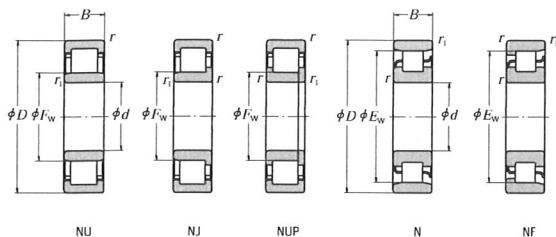


SINGLE-ROW CYLINDRICAL ROLLER BEARINGS

Bore Diameter 60 – 75 mm

NSK



Boundary Dimensions (mm)								Basic Load Ratings (N)		Limiting Speeds ⁽¹⁾ (min ⁻¹)	
d	D	B	r	r ₁	F _w	E _w		C _r	C _{0r}	Grease	Oil
60	95	18	1.1	1	69.5	85.5		40 000	48 500	6 700	8 500
	110	22	1.5	1.5	—	97.5		68 500	75 000	6 000	7 100
	110	22	1.5	1.5	72	—		97 500	107 000	5 300	6 300
	110	28	1.5	1.5	72	—		131 000	157 000	5 300	6 300
	130	31	2.1	2.1	—	113		124 000	126 000	4 800	5 600
	130	31	2.1	2.1	77	—		124 000	126 000	4 800	5 600
	130	31	2.1	2.1	77	—		150 000	157 000	4 800	5 600
	130	46	2.1	2.1	77	—		222 000	262 000	4 300	5 300
	150	35	2.1	2.1	83	127		167 000	168 000	4 300	5 300
	150	35	2.1	2.1	83	127		167 000	168 000	4 300	5 300
65	100	18	1.1	1	74.5	90.5		41 000	51 000	6 300	8 000
	120	23	1.5	1.5	—	105.6		84 000	94 500	5 300	6 300
	120	23	1.5	1.5	78.5	—		108 000	119 000	4 800	5 600
	120	31	1.5	1.5	78.5	—		149 000	181 000	4 800	6 000
	140	33	2.1	2.1	—	121.5		135 000	139 000	4 300	5 300
	140	33	2.1	2.1	83.5	—		135 000	139 000	4 300	5 300
	140	33	2.1	2.1	82.5	—		181 000	191 000	4 300	5 300
	140	48	2.1	2.1	82.5	—		233 000	265 000	3 800	4 800
	160	37	2.1	2.1	89.3	135.3		182 000	186 000	4 000	4 800
	160	37	2.1	2.1	89.3	135.3		182 000	186 000	4 000	4 800
70	110	20	1.1	1	80	100		58 500	70 500	6 000	7 100
	125	24	1.5	1.5	—	110.5		83 500	95 000	5 000	6 300
	125	24	1.5	1.5	83.5	—		119 000	137 000	5 000	6 300
	125	31	1.5	1.5	83.5	—		156 000	194 000	4 500	5 600
	150	35	2.1	2.1	—	130		149 000	156 000	4 000	5 000
	150	35	2.1	2.1	90	—		158 000	168 000	4 000	5 000
	150	35	2.1	2.1	89	—		205 000	222 000	4 000	5 000
	150	51	2.1	2.1	89	—		274 000	325 000	3 600	4 500
	180	42	3	3	100	152		228 000	236 000	3 600	4 300
	180	42	3	3	100	152		228 000	236 000	3 600	4 300
75	115	20	1.1	1	85	105		60 000	74 500	5 600	6 700
	130	25	1.5	1.5	—	116.5		96 500	111 000	4 800	6 000
	130	25	1.5	1.5	88.5	—		130 000	156 000	4 800	6 000
	130	31	1.5	1.5	88.5	—		162 000	207 000	4 300	5 300
	160	37	2.1	2.1	—	139.5		179 000	189 000	3 800	4 800
	160	37	2.1	2.1	95.5	—		179 000	189 000	3 800	4 800
	160	55	2.1	2.1	95	—		240 000	263 000	3 600	4 800
	190	45	3	3	104.5	160.5		330 000	395 000	3 400	4 300
	190	45	3	3	104.5	160.5		330 000	395 000	3 400	4 300
	190	45	3	3	104.5	160.5		330 000	395 000	3 400	4 300

Notes (1) The limiting speeds listed above apply to bearings with machined cages (No suffix). For bearings with pressed cages, reduce the limiting speed by 20%. (Not applicable to bearing numbers with an EM, EW, or ET suffix.)
(2) The bearings with suffix ET have polyamide cage. The maximum operating temperature should be less than 120 °C.

Bearing Numbers ⁽²⁾						Abutment and Fillet Dimensions (mm)										Mass (kg)
	NU	NJ	NUP	N	NF	$d_1^{(1)}$	d_2	$d_3^{(1)}$	d_4	d_5	$D_1^{(1)}$	D_2	D_3	r_1	r_2	approx.
						min.		max.	min.	min.	max.	max.		max.		
NU1012	NU	NJ	—	N	NF	66.5	65	68	71	—	88.5	90	87	1	1	0.474
N 212	—	—	—	—	N	68	—	70	75	—	102	100	—	1.5	1.5	0.823
NU 212 EW	NU	NJ	NUP	—	—	68	68	70	75	80	102	—	—	1.5	1.5	0.824
NU2212 ET	NU	NJ	NUP	—	—	68	68	70	75	80	102	—	—	1.5	1.5	1.06
N 312	—	—	—	N	NF	71	—	75	79	86	119	—	119	2	2	1.78
NU 312	NU	NJ	NUP	—	—	71	71	75	79	86	119	—	—	2	2	1.82
NU 312 EM	NU	NJ	NUP	—	—	71	71	75	79	86	119	—	—	2	2	2.06
NU2312 ET	NU	NJ	NUP	—	—	71	71	75	79	86	119	—	—	2	2	2.7
NU 412	NU	NJ	NUP	N	NF	71	71	80	85	94	139	139	130	2	2	3.04
NU1013	NU	NJ	—	N	NF	71.5	70	73	76	—	93.5	95	92	1	1	0.504
N 213	—	—	—	N	NF	73	—	—	—	—	112	108	—	1.5	1.5	1.05
NU 213 EW	NU	NJ	NUP	—	—	73	73	76	81	87	112	—	—	1.5	1.5	1.05
NU2213 ET	NU	NJ	NUP	—	—	73	73	76	81	87	112	—	—	1.5	1.5	1.41
N 313	—	—	—	N	NF	76	—	—	—	—	129	125	2	2	2.17	
NU 313	NU	NJ	NUP	—	—	76	76	81	85	93	129	—	—	2	2	2.23
NU 313 EM	NU	NJ	NUP	—	—	76	76	80	85	93	129	—	—	2	2	2.56
NU2313 ET	NU	NJ	NUP	—	—	76	76	80	85	93	129	—	—	2	2	3.16
NU 413	NU	NJ	—	N	NF	76	76	86	91	100	149	149	138.8	2	2	3.63
NU1014	NU	NJ	NUP	N	NF	76.5	75	79	82	—	103.5	105	101	1	1	0.693
N 214	—	—	—	N	NF	78	—	—	—	—	117	113	1.5	1.5	1.14	
NU 214 EM	NU	NJ	NUP	—	—	78	78	81	86	92	117	—	—	1.5	1.5	1.29
NU2214 ET	NU	NJ	NUP	—	—	78	78	81	86	92	117	—	—	1.5	1.5	1.49
N 314	—	—	—	N	NF	81	—	—	—	—	139	133.5	2	2	2.67	
NU 314	NU	NJ	NUP	—	—	81	81	87	92	100	139	—	—	2	2	2.75
NU 314 EM	NU	NJ	NUP	—	—	81	81	86	92	100	139	—	—	2	2	3.09
NU2314 ET	NU	NJ	NUP	—	—	81	81	86	92	100	139	—	—	2	2	3.92
NU 414	NU	NJ	NUP	N	NF	83	83	97	102	112	167	167	155	2.5	2.5	5.28
NU1015	NU	—	—	N	NF	81.5	80	83	87	—	108.5	110	106	1	1	0.731
N 215	—	—	—	N	NF	83	—	—	—	—	122	119	1.5	1.5	1.23	
NU 215 EM	NU	NJ	NUP	—	—	83	83	86	90	96	122	—	—	1.5	1.5	1.44
NU2215 ET	NU	NJ	NUP	—	—	83	83	86	90	96	122	—	—	1.5	1.5	1.57
N 315	—	—	—	N	NF	86	—	—	—	—	149	143	2	2	3.2	
NU 315	NU	NJ	NUP	—	—	86	86	93	97	106	149	—	—	2	2	3.26
NU 315 EM	NU	NJ	NUP	—	—	86	86	92	97	106	149	—	—	2	2	3.73
NU2315 ET	NU	NJ	NUP	—	—	86	86	92	97	106	149	—	—	2	2	4.86
NU 415	NU	NJ	—	N	NF	88	88	102	107	118	177	177	164	2.5	2.5	6.27

Notes (1) When L-shaped thrust collars (See section for L-Shaped Thrust Collars starting on page B104) are used, the bearings become the NH type.
(2) If axial loads are applied, increase d₁ and reduce D₂ from the values listed above.
(3) d₁ (max.) are values for adjusting rings for NU, NJ Types.