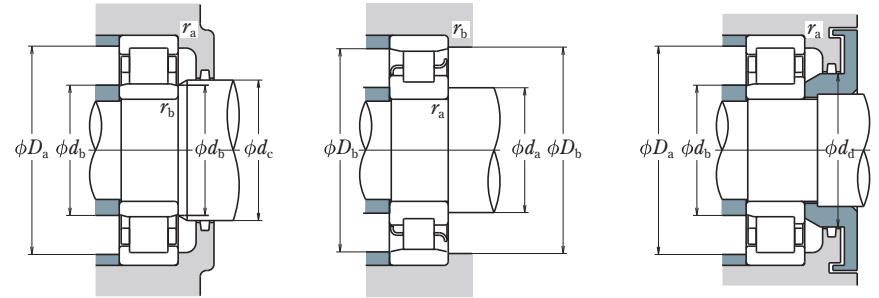
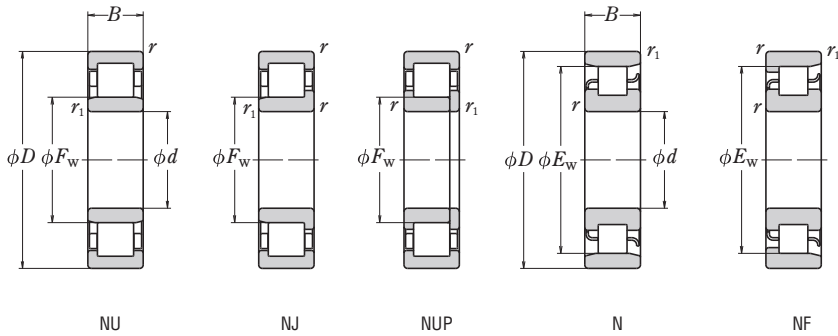


SINGLE-ROW CYLINDRICAL ROLLER BEARINGS

Bore Diameter 80 – 90 mm



Boundary Dimensions (mm)							Basic Load Ratings ⁽⁶⁾ (N)		Speeds ⁽⁵⁾ (min ⁻¹)			
<i>d</i>	<i>D</i>	<i>B</i>	<i>r</i> min.	<i>r</i> ₁ min.	<i>F</i> _W	<i>E</i> _W	<i>C</i> _r	<i>C</i> _{0r}	Limiting Speeds			
									Thermal Speed Rating (Oil Bath)	Mechanical (Forced Oil Circulation)	Grease	Oil (Oil Bath)
80	125	22	1.1	1	91.5	113.5	89 000	90 500	6 000	—	5 300	6 300
	140	26	2	2	—	125.3	131 000	122 000	5 600	—	3 600	4 300
	140	26	2	2	95.3	—	171 000	167 000	5 000	8 000	4 500	5 300
	140	33	2	2	95.3	—	229 000	243 000	5 000	6 000	4 000	5 000
	170	39	2.1	2.1	—	147	234 000	207 000	4 800	—	2 800	3 400
	170	39	2.1	2.1	101	—	315 000	282 000	4 300	7 100	3 600	4 300
	170	58	2.1	2.1	101	—	440 000	430 000	4 500	5 300	3 200	4 000
	130	22	1.1	1	96.5	118.5	91 500	95 500	5 600	—	5 000	6 000
	150	28	2	2	—	133.8	148 000	140 000	5 300	—	3 400	4 000
	150	28	2	2	100.5	—	206 000	199 000	4 800	7 500	4 300	5 000
85	150	36	2	2	100.5	—	268 000	279 000	4 800	5 600	3 800	4 500
	180	41	3	3	—	156	277 000	247 000	4 500	—	2 600	3 200
	180	41	3	3	108	—	261 000	228 000	4 800	—	2 600	3 200
	180	41	3	3	108	—	360 000	330 000	4 000	6 700	3 400	4 000
	180	60	3	3	108	—	485 000	485 000	4 300	6 000	3 000	3 800
	140	24	1.5	1.1	103	127	108 000	114 000	5 300	—	4 500	5 600
	160	30	2	2	—	143	187 000	178 000	5 000	—	3 200	3 800
	160	30	2	2	107	—	224 000	217 000	4 800	7 100	4 000	4 800
	160	40	2	2	107	—	298 000	315 000	4 800	5 300	3 600	4 300
	190	43	3	3	—	165	295 000	265 000	4 500	—	2 600	3 000
90	190	43	3	3	115	—	295 000	265 000	4 500	—	2 600	3 000
	190	43	3	3	113.5	—	390 000	355 000	4 000	6 300	3 200	3 800
	190	64	3	3	113.5	—	535 000	535 000	4 000	5 600	2 800	3 400

- Notes** ⁽¹⁾ Cage designation (M) is usually omitted from the bearing designation.
⁽²⁾ When L-shaped thrust collars (see Pages C156-C157) are used, the bearings are considered the NH type.
⁽³⁾ If axial loads are applied, increase *d*_a and reduce *D*_a from the values listed above.

Bearing Designations							Abutment and Fillet Dimensions (mm)										Mass (kg)
Cage ⁽¹⁾ Standard Option			⁽²⁾ NU NJ NUP N NF				<i>d</i> _a ⁽³⁾ min.	<i>d</i> _b min.	<i>d</i> _b ⁽⁴⁾ max.	<i>d</i> _c min.	<i>d</i> _d min.	<i>D</i> _a ⁽³⁾ max.	<i>D</i> _b max.	<i>D</i> _b min.	<i>r</i> _a max.	<i>r</i> _b max.	approx.
NU1016 N 216 NU216E	(M) W M	— M T, T7	NU — NJ	— NUP NUP	N — —	N NF —	86.5 89 89	85 — 89	90 — 93	94 — 97	— — 104	118.5 120 131	120 131 —	115 128 —	1 2 2	1 2 2	0.969 1.47 1.7
NU2216E N 316 NU316E NU2316E	T W M T	M, T7 M T, T7 M, T7	NU — NJ	NUP — NUP	— — —	N NF —	89 91 91 91	89 — 91 91	93 — 98 98	97 — 105 105	104 — 114 114	131 — 159 159	— — 159 —	— — 150 —	2 2 2 2	2 2 2 2	1.96 3.85 4.45 5.73
NU1017 N 217 NU217E	(M) W M	— M T, T7	NU — —	— — NUP	— — —	N NF —	91.5 94 94	90 — 94	95 — 98	99 — 104	— — 110	123.5 125 141	125 141 —	120 137 —	1 2 2	1 2 2	1.01 1.87 2.11
NU2217E N 317 NU317	T W W	M, T7 M M	NU — NJ	NUP — NUP	— — —	N NF —	94 98 98	94 — 98	98 — 105	104 — 110	110 — 119	141 — 167	— — 167	— 159 —	2 2.5 2.5	2 2.5 2.5	2.44 4.53 4.6
*NU317E *NU2317E	M T	T, T7 M, T7	NU — NJ	NUP — NUP	— — —	— — —	98 98	98 98	105 105	110 110	119 119	167 167	— —	— —	2.5 2.5	2.5 2.5	5.26 6.77
NU1018 N 218 NU218E	(M) W M	— M T, T7	NU — —	— NUP NUP	N — —	N NF —	98 99 99	96.5 — 99	101 — 104	106 — 109	— — 116	132 — 151	133.5 151 —	129 146 —	1.5 2 2	1 2 2	1.35 2.31 2.6
NU2218E N 318 NU318	T W W	M, T7 M —	NU — NJ	NUP — NUP	— — —	N NF —	99 103 103	99 — 103	104 — 112	109 — 117	116 — 127	151 — 177	— 177 —	— 168 —	2 2.5 2.5	2 2.5 2.5	3.11 5.31 5.38
*NU318E *NU2318E	M T	T, T7 M, T7	NU — NJ	NUP — NUP	— — —	— — —	103 103	103 103	111 111	117 117	127 127	177 177	— —	— —	2.5 2.5	2.5 2.5	6.1 7.9

- Notes** ⁽⁴⁾ *d*_b (max.) refers to values for adjusting rings for NU and NJ bearings.
⁽⁵⁾ The limiting speeds in the bearing tables are for standard cages.
⁽⁶⁾ The basic load ratings in the bearing tables are for standard cages.
Remark Bearings with an asterisk (*) may be manufactured with an optimized roller crowning. Consult NSK for details.