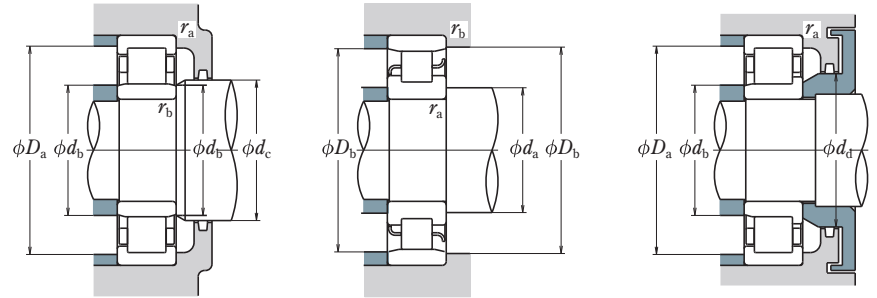
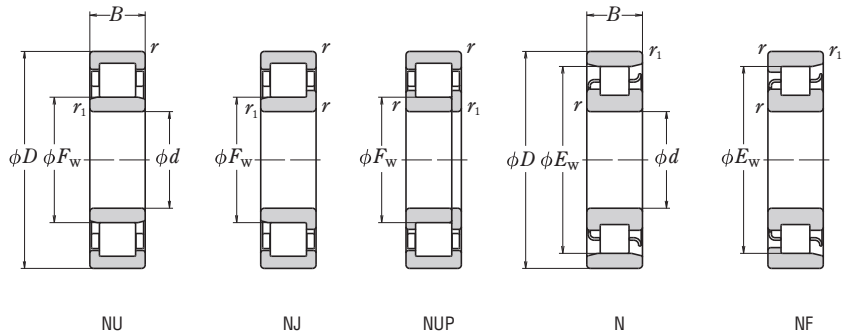


SINGLE-ROW CYLINDRICAL ROLLER BEARINGS

Bore Diameter 95 – 105 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)
95	145	24	1.5	1.1	108	132	111 000	120 000	5 000	—	4 300	5 300
	170	32	2.1	2.1	—	151.5	204 000	195 000	4 800	—	3 000	3 600
	170	32	2.1	2.1	112.5	—	271 000	265 000	4 300	6 700	3 800	4 500
	170	43	2.1	2.1	112.5	—	350 000	370 000	4 500	4 800	3 400	4 000
	200	45	3	3	—	173.5	320 000	289 000	4 300	—	2 400	3 000
	200	45	3	3	121.5	—	320 000	289 000	4 300	—	2 400	3 000
	200	45	3	3	121.5	—	410 000	385 000	3 800	6 000	3 000	3 600
	200	67	3	3	121.5	—	565 000	585 000	3 800	5 300	2 600	3 400
	150	24	1.5	1.1	113	137	114 000	126 000	4 800	—	4 300	5 300
	180	34	2.1	2.1	—	160	225 000	217 000	4 500	—	2 800	3 400
100	180	34	2.1	2.1	119	—	305 000	305 000	4 300	6 300	3 600	4 300
	180	46	2.1	2.1	119	—	410 000	445 000	4 300	4 500	3 200	3 800
	215	47	3	3	—	185.5	365 000	335 000	4 000	—	2 200	2 800
	215	47	3	3	129.5	—	365 000	335 000	4 000	—	2 200	2 800
	215	47	3	3	127.5	—	465 000	425 000	3 600	5 600	2 800	3 400
	215	73	3	3	127.5	—	700 000	715 000	3 400	4 000	2 400	3 000
	160	26	2	1.1	119.5	145.5	134 000	149 000	4 500	—	4 000	4 800
	190	36	2.1	2.1	—	168.8	247 000	241 000	4 500	—	2 600	3 200
	190	36	2.1	2.1	125	—	320 000	310 000	4 300	6 000	3 400	4 000
	225	49	3	3	—	195	420 000	390 000	3 800	—	2 200	2 600
105	225	49	3	3	133	—	525 000	480 000	3 400	5 300	2 600	3 200

- 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.
NU1019 N 219 NU219E	(M) W M	— M T, T7	NU — NU	NJ — NJ	— — NUP	N N —	103 106 106	101.5 — 106	106 — 110	111 — 116	— — 123	137 — 159	134 155 —	1.5 2 2	1 2 2	1.41 2.79 3.17	
NU2219E N 319 NU319	T W W	M, T7 M —	NU — NU	NJ — NJ	NUP — NUP	— N —	106 108 108	106 — 108	110 — 118	116 — 124	123 — 134	159 — 187	— 177 —	2 2.5 2.5	2 2.5 2.5	3.81 6.09 6.23	
*NU319E *NU2319E	M T	T, T7 M, T7	NU NU	NJ NJ	NUP NUP	— —	108 108	108 108	118 118	124 124	134 134	187 187	— —	2.5 2.5	2.5 2.5	7.13 9.21	
NU1020 N 220 *NU220E	(M) W M	— M T, T7	NU — NU	NJ — NJ	NUP — NUP	N N —	108 111 111	106.5 — 111	111 — 116	116 — 122	— — 130	142 — 169	143.5 163 —	139 2 2	1.5 2 2	1.47 3.36 3.81	
*NU2220E N 320 NU320	T W W	M, T7 M —	NU — NU	NJ — NJ	NUP — NUP	— N —	111 113 113	111 — 113	116 — 126	122 — 132	130 — 143	169 — 202	— 190 —	2 2.5 2.5	2 2.5 2.5	4.69 7.59 7.69	
*NU320E *NU2320E	M T	T, T7 M, T7	NU NU	NJ NJ	NUP NUP	— —	113 113	113 113	124 124	132 132	143 143	202 202	— —	2.5 2.5	2.5 2.5	8.63 11.8	
NU1021 N 221 *NU221E	(M) W M	— M —	NU — NU	— — NJ	— — NUP	N N —	114 116 116	111.5 — 116	118 — 121	122 — 129	— — 137	151 — 179	153.5 172 —	147 2 2	2 2 2	1.83 4.0 4.58	
N 321 *NU321E	W M	M —	— NU	— NJ	— NUP	N —	118 118	— 118	— 129	— 137	— 149	— 212	199 —	2.5 2.5	2.5 2.5	8.69 9.84	

- 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.