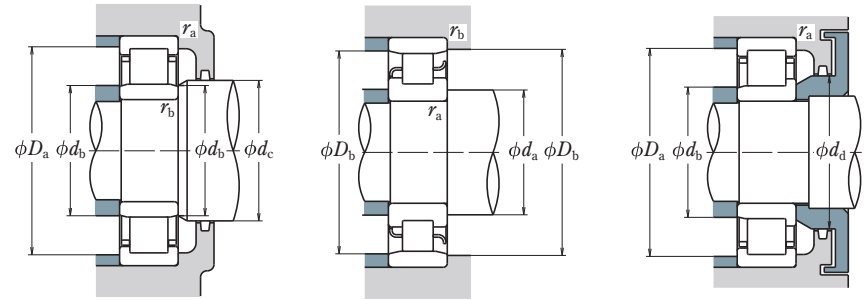
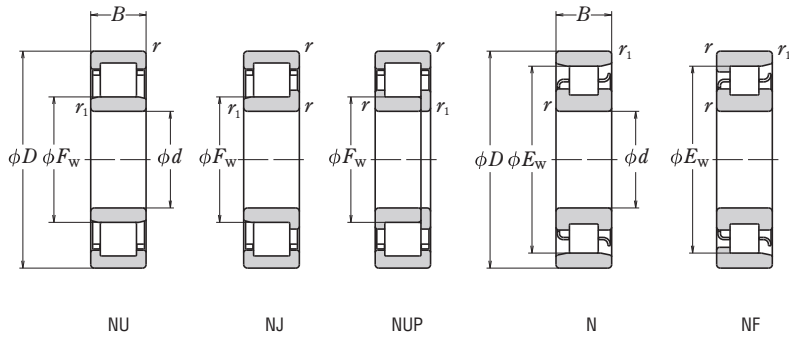


SINGLE-ROW CYLINDRICAL ROLLER BEARINGS

Bore Diameter 45 – 50 mm



Boundary Dimensions (mm)							Basic Load Ratings ⁽⁶⁾ (N)		Speeds ⁽⁵⁾ (min ⁻¹) Limiting Speeds			
<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}	Thermal Speed Rating (Oil Bath)	Mechanical (Forced Oil Circulation)	Grease	Oil (Oil Bath)
45	75	16	1	0.6	52.5	67.5	40 000	35 500	9 500	—	9 000	11 000
	85	19	1.1	1.1	—	75	56 500	47 000	9 000	—	6 300	7 500
	85	19	1.1	1.1	54.5	—	77 500	66 500	8 500	12 000	6 700	8 000
	85	23	1.1	1.1	54.5	—	93 500	84 500	8 500	10 000	6 700	8 500
	100	25	1.5	1.5	—	86.5	97 000	77 500	7 500	—	5 000	6 000
	100	25	1.5	1.5	58.5	—	120 000	98 500	7 100	11 000	6 000	7 500
50	100	36	1.5	1.5	58.5	—	169 000	153 000	7 100	9 000	5 300	6 700
	80	16	1	0.6	57.5	72.5	39 500	36 000	8 500	—	8 000	10 000
	90	20	1.1	1.1	—	80.4	59 500	51 000	8 500	—	5 600	6 700
	90	20	1.1	1.1	59.5	—	85 000	76 500	8 000	11 000	6 300	7 500
	90	23	1.1	1.1	59.5	—	102 000	97 000	7 500	9 000	6 300	8 000
	110	27	2	2	—	95	107 000	86 000	7 100	—	4 500	5 600
	110	27	2	2	65	—	135 000	113 000	6 700	10 000	5 000	6 000
	110	40	2	2	65	—	200 000	187 000	6 700	8 000	5 000	6 300

- 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.
NU1009 N 209 NU209E	(M) W W	— M M, T, T7	NU — NU	— — NJ	— — NUP	N NF N NF —	50 51.5 51.5	49 — 51.5	51 — 52	54 — 57	— — 61	70 — 78.5	71 78.5 —	68 77 —	1 1 1	0.6 1 1	0.279 0.429 0.438
NU2209E N 309 NU309E NU2309E	T W W T	M, T7 M M, T, T7 M, T7	NU — NU NU	NJ — NJ NJ	NUP — NUP NUP	— N NF — —	51.5 53 53 53	51.5 — 53 53	52 — 56 56	57 — 60 60	61 — 66 66	78.5 — 92 92	— 92 — —	— 77 — —	1 1.5 1.5 1.5	1 1.5 1.5 1.5	0.521 0.869 1.01 1.28
NU1010 N 210 NU210E	(M) W W	— M M, T, T7	NU — NU	NJ — NJ	NUP — NUP	N — N NF —	55 56.5 56.5	54 — 56.5	56 — 57	59 — 62	— — 67	75 — 83.5	76 83.5 —	73 82 —	1 1 1	0.6 1 1	0.301 0.483 0.50
NU2210E N 310 NU310E NU2310E	T W W T	M, T7 M M, T, T7 M, T7	NU — NU NU	NJ — NJ NJ	NUP — NUP NUP	— N NF — —	56.5 59 59 59	56.5 — 59 59	57 — 63 63	62 — 67 67	67 — 73 73	83.5 — 101 101	— 101 — —	— 97 — —	1 2 2 2	1 2 2 2	0.562 1.11 1.3 1.7

- 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.