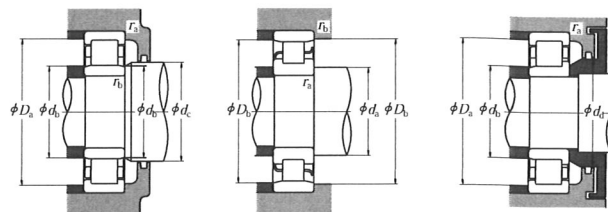
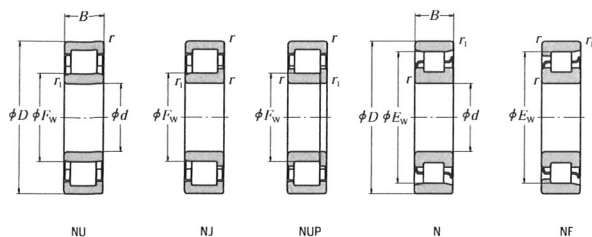


SINGLE-ROW CYLINDRICAL ROLLER BEARINGS

Bore Diameter 80 – 95 mm

NSK



d	Boundary Dimensions (mm)						Basic Load Ratings (N)		Limiting Speeds ⁽¹⁾ (min ⁻¹)	
	D	B	r min.	r1 min.	Fw	Ew	Cr	C0r	Grease	Oil
80	125	22	1.1	1	91.5	113.5	72 500	90 500	5 300	6 300
	140	26	2	2	95.3	125.3	106 000	122 000	4 500	5 300
	140	26	2	2	95.3	—	139 000	167 000	4 500	5 300
	140	33	2	2	95.3	—	186 000	243 000	4 000	5 000
	170	39	2.1	2.1	101	147	190 000	207 000	3 600	4 300
	170	39	2.1	2.1	101	—	256 000	282 000	3 600	4 300
	170	58	2.1	2.1	101	—	355 000	430 000	3 200	4 000
85	200	46	3	3	110	170	299 000	315 000	3 200	3 800
	130	22	1.1	1	96.5	118.5	74 500	95 500	5 000	6 000
	150	28	2	2	—	133.8	120 000	140 000	4 300	5 000
	150	28	2	2	100.5	—	167 000	199 000	4 300	5 000
	150	36	2	2	100.5	—	217 000	279 000	3 800	4 500
	180	41	3	3	—	156	225 000	247 000	3 400	4 000
	180	41	3	3	108	—	212 000	228 000	3 400	4 000
90	180	41	3	3	108	—	291 000	330 000	3 400	4 000
	180	60	3	3	108	—	395 000	485 000	3 000	3 800
	210	52	4	4	113	177	335 000	350 000	3 000	3 800
	160	24	1.5	1.1	103	127	88 000	114 000	4 500	5 600
	160	30	2	2	—	143	152 000	178 000	4 000	4 800
	160	30	2	2	107	—	182 000	217 000	4 000	4 800
	160	40	2	2	107	—	242 000	315 000	3 600	4 300
95	190	43	3	3	—	165	240 000	265 000	3 200	3 800
	190	43	3	3	115	—	240 000	265 000	3 200	3 800
	190	43	3	3	113.5	—	315 000	355 000	3 200	3 800
	190	64	3	3	113.5	—	435 000	535 000	2 800	3 400
	225	54	4	4	123.5	191.5	375 000	400 000	2 800	3 400
	145	24	1.5	1.1	108	132	90 500	120 000	4 300	5 300
	170	32	2.1	2.1	—	151.5	166 000	196 000	3 800	4 500
200	170	32	2.1	2.1	112.5	—	220 000	265 000	3 800	4 500
	170	43	2.1	2.1	112.5	—	286 000	370 000	3 400	4 000
	200	45	3	3	—	173.5	259 000	289 000	3 000	3 600
	200	45	3	3	121.5	—	259 000	289 000	3 000	3 600
	200	45	3	3	121.5	—	335 000	385 000	3 000	3 600
	200	67	3	3	121.5	—	460 000	585 000	2 600	3 400
	240	55	4	4	133.5	201.5	400 000	445 000	2 600	3 200

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 _s ⁽¹⁾	d ₁ ⁽¹⁾	d ₂ ⁽¹⁾	d ₃ ⁽¹⁾	d ₄ ⁽¹⁾	D ₁ ⁽¹⁾	D ₂ ⁽¹⁾	D ₃ ⁽¹⁾	r ₁ ⁽¹⁾	r ₂ ⁽¹⁾	approx.	
NU1016	—	—	NUP	N	86.5	85	90	94	—	118.5	120	115	1	1	0.969	
N 216	—	—	NUP	N	89	89	92	97	104	131	—	131	2	2	1.47	
NU 216 EM	—	—	NUP	N	89	89	92	97	104	131	—	—	2	2	1.7	
NU2216 ET	—	—	NUP	N	89	89	92	97	104	131	—	—	2	2	1.96	
N 316	—	—	NUP	N	91	91	98	105	114	159	—	159	2	2	3.85	
NU 316 EM	—	—	NUP	N	91	91	98	105	114	159	—	—	2	2	4.45	
NU2316 ET	—	—	NUP	N	91	91	98	105	114	159	—	—	2	2	5.73	
NU 416	—	—	NUP	N	93	93	107	112	124	187	187	173	2.5	2.5	7.36	
NU1017	—	—	NUP	N	91.5	90	95	99	—	123.5	125	120	1	1	1.01	
N 217	—	—	NUP	N	94	—	—	—	—	—	141	137	2	2	1.87	
NU 217 EM	—	—	NUP	N	94	94	98	104	110	141	—	—	2	2	2.11	
NU2217 ET	—	—	NUP	N	94	94	98	104	110	141	—	—	2	2	2.44	
N 317	—	—	NUP	N	98	—	—	—	—	—	167	159	2.5	2.5	4.53	
NU 317	—	—	NUP	N	98	98	105	110	119	167	—	—	2.5	2.5	4.6	
NU 317 EM	—	—	NUP	N	98	98	105	110	119	167	—	—	2.5	2.5	5.26	
NU2317 ET	—	—	NUP	N	98	98	105	110	119	167	—	—	2.5	2.5	6.77	
NU 417	—	—	NUP	N	101	101	110	115	128	194	194	180	3	3	9.56	
NU1018	—	—	NUP	N	98	96.5	101	106	—	132	133.5	129	1.5	1	1.35	
N 218	—	—	NUP	N	99	—	—	—	—	—	151	146	2	2	2.31	
NU 218 EM	—	—	NUP	N	99	99	104	109	116	151	—	—	2	2	2.6	
NU2218 ET	—	—	NUP	N	99	99	104	109	116	151	—	—	2	2	3.11	
N 318	—	—	NUP	N	103	—	—	—	—	—	177	168	2.5	2.5	5.31	
NU 318	—	—	NUP	N	103	103	112	117	127	177	—	—	2.5	2.5	5.38	
NU 318 EM	—	—	NUP	N	103	103	111	117	127	177	—	—	2.5	2.5	6.1	
NU2318 ET	—	—	NUP	N	103	103	111	117	127	177	—	—	2.5	2.5	7.9	
NU 418	—	—	NUP	N	106	106	120	125	139	209	209	196	3	3	11.5	
NU1019	—	—	NUP	N	103	101.5	106	111	—	137	138.5	134	1.5	1	1.41	
N 219	—	—	NUP	N	106	—	—	—	—	—	159	155	2	2	2.79	
NU 219 EM	—	—	NUP	N	106	106	110	116	123	159	—	—	2	2	3.17	
NU2219 ET	—	—	NUP	N	106	106	110	116	123	159	—	—	2	2	3.81	
N 319	—	—	NUP	N	108	—	—	—	—	—	187	177	2.5	2.5	6.09	
NU 319	—	—	NUP	N	108	108	118	124	134	187	—	—	2.5	2.5	6.23	
NU 319 EM	—	—	NUP	N	108	108	118	124	134	187	—	—	2.5	2.5	7.13	
NU2319 ET	—	—	NUP	N	108	108	118	124	134	187	—	—	2.5	2.5	9.21	
NU 419	—	—	NUP	N	111	111	130	136	149	224	224	206	3	3	13.6	

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 d_1 and reduce D_2 from the values listed above.
⁽³⁾ d_1 (max.) are values for adjusting rings for NU, NJ Types.