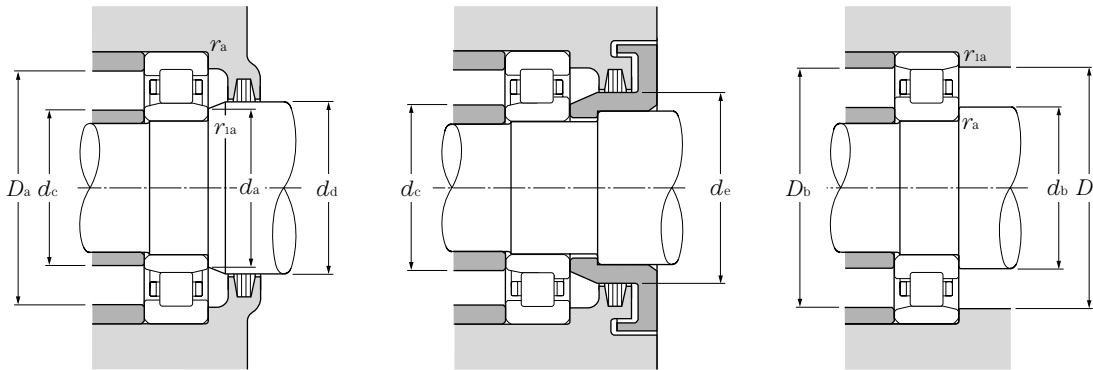


d 35 ~ 55mm

d	Boundary dimensions				Basic load ratings				Limiting speeds ^①		Bearing numbers			
	mm				dynamic	static	dynamic	static	rpm		type	type	type	type
	D	B	r _{s min} ^②	r _{1s min} ^②	C _r	C _{or}	C _r	C _{or}	grease	oil	NU	NJ	NUP	N
45	75	16	1	0.6	31.0	34.0	3,200	3,450	9,900	12,000	NU1009	NJ	NUP	N
	85	19	1.1	1.1	46.0	47.0	4,700	4,800	8,400	9,900	NU209	NJ	NUP	N
	85	19	1.1	1.1	63.0	66.5	6,450	6,800	7,600	9,000	NU209E	NJ	NUP	
	85	23	1.1	1.1	61.5	68.0	6,250	6,900	7,600	9,000	NU2209	NJ	NUP	N
	85	23	1.1	1.1	76.0	84.5	7,750	8,600	6,800	8,000	NU2209E	NJ	NUP	
	100	25	1.5	1.5	74.0	71.0	7,550	7,250	7,200	8,400	NU309	NJ	NUP	N
	100	25	1.5	1.5	97.5	98.5	9,950	10,000	6,500	7,600	NU309E	NJ	NUP	
	100	36	1.5	1.5	99.0	104	10,100	10,600	6,300	7,400	NU2309	NJ	NUP	N
	100	36	1.5	1.5	137	153	14,000	15,600	5,700	6,800	NU2309E	NJ	NUP	
120	29	2	2	107	102	10,900	10,400	5,100	6,000	NU409	NJ	NUP	N	
50	80	16	1	0.6	32.0	36.0	3,300	3,700	8,900	11,000	NU1010	NJ	NUP	N
	90	20	1.1	1.1	48.0	51.0	4,900	5,200	7,600	9,000	NU210	NJ	NUP	N
	90	20	1.1	1.1	66.0	72.0	6,750	7,350	6,900	8,100	NU210E	NJ	NUP	
	90	23	1.1	1.1	64.0	73.5	6,550	7,500	6,900	8,100	NU2210	NJ	NUP	N
	90	23	1.1	1.1	79.5	91.5	8,100	9,350	6,200	7,300	NU2210E	NJ	NUP	
	110	27	2	2	87.0	86.0	8,850	8,800	6,500	7,700	NU310	NJ	NUP	N
	110	27	2	2	110	113	11,200	11,500	5,900	6,900	NU310E	NJ	NUP	
	110	40	2	2	121	131	12,300	13,400	5,700	6,700	NU2310	NJ	NUP	N
	110	40	2	2	163	187	16,600	19,000	5,200	6,100	NU2310E	NJ	NUP	
130	31	2.1	2.1	129	124	13,200	12,600	4,700	5,500	NU410	NJ	NUP	N	
55	90	18	1.1	1	37.5	44.0	3,850	4,450	8,200	9,700	NU1011	NJ	NUP	N
	100	21	1.5	1.1	58.0	62.5	5,900	6,350	6,900	8,200	NU211	NJ	NUP	N
	100	21	1.5	1.1	82.5	93.0	8,400	9,500	6,300	7,400	NU211E	NJ	NUP	
	100	25	1.5	1.1	75.5	87.0	7,700	8,900	6,300	7,400	NU2211	NJ	NUP	N
	100	25	1.5	1.1	97.0	114	9,900	11,700	5,600	6,600	NU2211E	NJ	NUP	
	120	29	2	2	111	111	11,300	11,400	5,900	7,000	NU311	NJ	NUP	N
	120	29	2	2	137	143	14,000	14,600	5,300	6,300	NU311E	NJ	NUP	
	120	43	2	2	148	162	15,100	16,500	5,200	6,100	NU2311	NJ	NUP	N
	120	43	2	2	201	233	20,500	23,800	4,700	5,600	NU2311E	NJ	NUP	
140	33	2.1	2.1	139	138	14,200	14,100	4,300	5,000	NU411	NJ	NUP	N	
60	95	18	1.1	1	40.0	48.5	4,100	4,950	7,500	8,800	NU1012	NJ	NUP	N
	110	22	1.5	1.5	68.5	75.0	7,000	7,650	6,400	7,600	NU212	NJ	NUP	N
	110	22	1.5	1.5	97.5	107	9,950	10,900	5,800	6,800	NU212E	NJ	NUP	
	110	28	1.5	1.5	96.0	116	9,800	11,800	5,800	6,800	NU2212	NJ	NUP	N

① This value achieved with machined cages; when pressed cages are used, 80% of this value is acceptable.

② Minimal allowable dimension for chamfer dimension r or r_1 .



Equivalent bearing load
dynamic
 $P_r = F_r$
static
 $P_{or} = F_r$

type	Dimensions			Abutment and fillet dimensions										Mass	
	mm			mm										kg	
NF	F_w	E_w	J	d_a min	d_b min	d_c max	d_d min	d_e min	D_a max	D_b max	D_b min ^④	r_{as} max	r_{ias} max	type NU (approx.)	type N
NF	52.5	67.5	55.5	49	50	52	54	56	70	71	68.5	1	0.6	0.28	0.276
	55	75	59	51.5	51.5	54	57	61	78.5	78.5	77	1	1	0.432	0.423
	54.5		58.9	51.5		54	57	61	78.5			1	1	0.495	
NF	55	75	59	51.5	51.5	54	57	61	78.5	78.5	77	1	1	0.53	0.52
	54.5		58.9	51.5		54	57	61	78.5			1	1	0.6	
	58.5	86.5	64	53	53	57	60	66	92	92	89	1.5	1.5	0.877	0.857
NF	58.5		64.5	53		57	60	66	92			1.5	1.5	0.996	
	58.5	86.5	64	53	53	57	60	66	92	92	89	1.5	1.5	1.27	1.24
	58.5		64.5	53		57	60	66	92			1.5	1.5	1.41	
NF	64.5	100.5	71.8	54	54	63	66	74	111	111	102	2	2	1.62	1.58
NF	57.5	72.5	60.5	54	55	57	59	61	75	76	73.5	1	0.6	0.295	0.291
	60.4	80.4	64.6	56.5	56.5	58	62	67	83.5	83.5	83	1	1	0.47	0.46
	59.5		63.9	56.5		58	62	67	83.5			1	1	0.54	
	60.4	80.4	64.6	56.5	56.5	58	62	67	83.5	83.5	83	1	1	0.571	0.56
NF	59.5		63.9	56.5		58	62	67	83.5			1	1	0.652	
	65	95	71	59	59	63	67	73	101	101	98	2	2	1.14	1.11
	65		71.4	59		63	67	73	101			2	2	1.3	
	65	95	71	59	59	63	67	73	101	101	98	2	2	1.7	1.67
NF	65		71.4	59		63	67	73	101			2	2	1.9	
	70.8	110.8	78.8	61	61	69	73	81	119	119	112	2	2	2.02	1.97
NF	64.5	80.5	67.7	60	61.5	63	66	68.5	83.5	85	81.5	1	1	0.442	0.435
	66.5	88.5	70.8	61.5	63	65	68	73	92	93.5	91	1.5	1	0.638	0.626
	66		70.8	61.5		65	68	73	92			1.5	1	0.718	
	66.5	88.5	70.8	61.5	63	65	68	73	92	93.5	91	1.5	1	0.773	0.758
NF	66		70.8	61.5		65	68	73	92			1.5	1	0.968	
	70.5	104.5	77.2	64	64	69	72	80	111	111	107	2	2	1.45	1.42
	70.5		77.7	64		69	72	80	111			2	2	1.65	
	70.5	104.5	77.2	64	64	69	72	80	111	111	107	2	2	2.17	2.13
NF	70.5		77.7	64		69	72	80	111			2	2	2.37	
	77.2	117.2	85.2	66	66	76	79	87	129	129	119	2	2	2.48	2.42
NF	69.5	85.5	72.7	65	66.5	68	71	73.5	88.5	90	86.5	1	1	0.474	0.467
	73.5	97.5	78.4	68	68	71	75	80	102	102	100	1.5	1.5	0.818	0.802
	72		77.6	68		71	75	80	102			1.5	1.5	0.923	
	73.5	97.5	78.4	68	68	71	75	80	102	102	100	1.5	1.5	1.06	1.04

④ Does not apply to side of the outer ring rib of type NF bearings.