

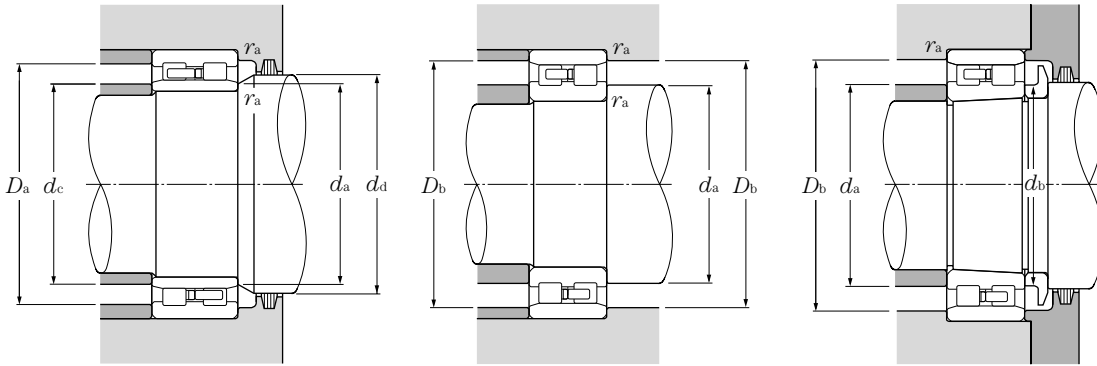
Type NNU
 Cylindrical bore Tapered bore taper 1:12

Type NN
 Cylindrical bore Tapered bore taper 1:12

d 25 ~ 110mm

d	Boundary dimensions			Basic load ratings				Limiting speeds		Bearing	
	mm			dynamic	static	dynamic	static	rpm		type NNU	
	D	B	$r_{s\ min}^{②}$	C_r kN	C_{or}	C_r kgf	C_{or}	grease	oil	cylindrical bore	tapered bore ^①
25	47	16	0.6	25.8	30.0	2,630	3,050	14,000	17,000		
30	55	19	1	31.0	37.0	3,150	3,800	12,000	15,000		
35	62	20	1	38.0	47.5	3,850	4,850	11,000	13,000		
40	68	21	1	43.5	55.5	4,400	5,650	9,700	11,000		
45	75	23	1	52.0	68.5	5,300	7,000	8,800	10,000		
50	80	23	1	53.0	72.5	5,400	7,400	8,000	9,400		
55	90	26	1.1	69.5	96.5	7,050	9,850	7,300	8,600		
60	95	26	1.1	71.0	102	7,250	10,400	6,700	7,900		
65	100	26	1.1	75.0	111	7,650	11,400	6,200	7,300		
70	110	30	1.1	94.5	143	9,650	14,600	5,800	6,800		
75	115	30	1.1	96.5	149	9,850	15,200	5,400	6,300		
80	125	34	1.1	116	179	11,800	18,200	5,100	5,900		
85	130	34	1.1	122	194	12,400	19,800	4,800	5,600		
90	140	37	1.5	143	228	14,600	23,200	4,500	5,300		
95	145	37	1.5	146	238	14,900	24,200	4,300	5,000		
100	140	40	1.1	131	260	13,300	26,500	4,300	5,100	NNU4920	NNU4920K
	150	37	1.5	153	256	15,600	26,100	4,000	4,800		
105	145	40	1.1	133	268	13,500	27,400	4,100	4,800	NNU4921	NNU4921K
	160	41	2	198	320	20,200	33,000	3,800	4,500		
110	150	40	1.1	137	284	14,000	28,900	3,900	4,600	NNU4922	NNU4922K
	170	45	2	229	375	23,300	38,000	3,600	4,300		

① "K" indicates bearings have tapered bore with a taper ratio of 1: 12. ② Smallest allowable dimension for chamfer dimension r .



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

numbers		Dimensions		Abutment and fillet dimensions							Mass (approx.)				
type NN cylindrical bore	tapered ¹ bore	mm		d_a min	d_b min	d_c max	d_d min	D_a max	D_b max	r_a min	r_{as} max	type NNU		type NN	
		F_w	E_w									cylindrical bore	tapered bore	cylindrical bore	tapered bore
NN3005	NN3005K	41.3	29	30					43	42	0.6		0.124	0.121	
NN3006	NN3006K	48.5	35	36.5					50	49	1		0.199	0.193	
NN3007	NN3007K	55	40	41.5					57	56	1		0.242	0.235	
NN3008	NN3008K	61	45	47					63	62	1		0.312	0.303	
NN3009	NN3009K	67.5	50	52					70	69	1		0.405	0.393	
NN3010	NN3010K	72.5	55	57					75	74	1		0.433	0.419	
NN3011	NN3011K	81	61.5	63.5					83.5	82	1		0.651	0.631	
NN3012	NN3012K	86.1	66.5	68.5					88.5	87	1		0.704	0.683	
NN3013	NN3013K	91	71.5	73.5					93.5	92	1		0.758	0.735	
NN3014	NN3014K	100	76.5	79					103.5	101	1		1.04	1.01	
NN3015	NN3015K	105	81.5	84					108.5	106	1		1.14	1.11	
NN3016	NN3016K	113	86.5	89.5					118.5	114	1		1.52	1.47	
NN3017	NN3017K	118	91.5	94.5					123.5	119	1		1.61	1.56	
NN3018	NN3018K	127	98	101					132	129	1.5		2.07	2.01	
NN3019	NN3019K	132	103	106					137	134	1.5		2.17	2.1	
NN4920	NN4920K	113	129	106.5	110	111	115	133.5	133.5	131	1	1.83	1.75	1.75	1.67
NN3020	NN3020K		137	108	111				142	139	1.5		2.26	2.19	
NN4921	NN4921K	118	134	111.5	115	116	120	138.5	138.5	136	1	1.91	1.82	1.82	1.73
NN3021	NN3021K		146	114	117				151	148	2		2.89	2.8	
NN4922	NN4922K	123	139	116.5	120	121	125	143.5	143.5	141	1	1.99	1.9	1.9	1.81
NN3022	NN3022K		155	119	123				161	157	2		3.69	3.56	