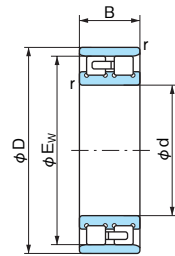
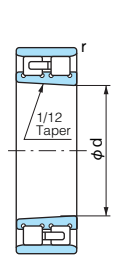


Double-row Cylindrical Roller Bearings

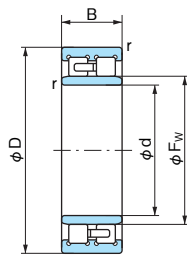
Bore Diameter: 25~180mm



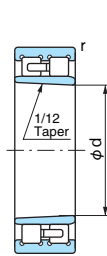
NN
Cylindrical bore



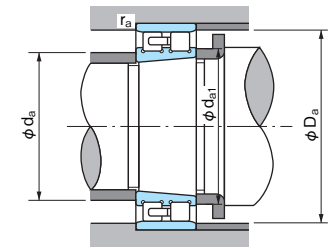
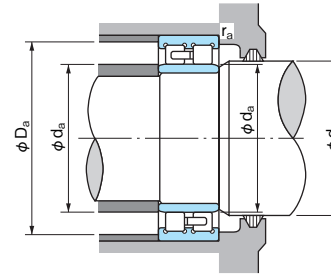
NN
Tapered bore (Taper: 1/12)



NNU
Cylindrical bore



NNU
Tapered bore (Taper: 1/12)

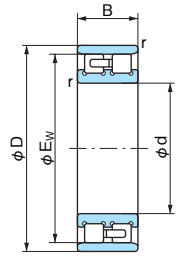


1N=0.102kgf

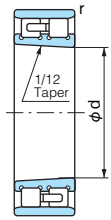
Boundary dimensions (mm)						Bearing No.		Basic dynamic load rating Cr (N)	Basic static load rating Cor (N)	Limiting speed (min ⁻¹)		Abutment and fillet dimensions (mm)						Mass (kg) (Reference Tapered bore)	Bearing No.																				
d	D	B	E _w	F _w	r (min)	Cylindrical bore	Tapered bore			Grease lubrication	Oil lubrication	d _a		d _{a1}	d _c	D _a				r _a																			
																	(min)	(max)	(min)	(max)	(min)	(max)																	
25	47	16	41.3	—	0.6	NN3005	NN3005K	25800	30000	15000	17000	30	—	30	—	42	41.8	0.6	0.123	NN3005K																			
30	55	19	48.5	—	1	NN3006	NN3006K	31000	37000	12000	15000	36	—	37	—	49	49	1	0.199	NN3006K																			
35	62	20	55	—	1	NN3007	NN3007K	39500	50000	11000	13000	41	—	42	—	56	56	1	0.258	NN3007K																			
40	68	21	61	—	1	NN3008	NN3008K	43500	55500	9800	11000	46	—	48	—	62	62	1	0.312	NN3008K																			
45	75	23	67.5	—	1	NN3009	NN3009K	52000	68500	8800	10000	51	—	52	—	69	69	1	0.405	NN3009K																			
50	80	23	72.5	—	1	NN3010	NN3010K	53000	72500	8200	9600	56	—	58	—	74	74	1	0.454	NN3010K																			
55	90	26	81	—	1.1	NN3011	NN3011K	69500	96500	7300	8600	62	—	64	—	83	82	1	0.651	NN3011K																			
60	95	26	86.1	—	1.1	NN3012	NN3012K	73500	106000	6800	8000	67	—	68	—	88	87	1	0.704	NN3012K																			
65	100	26	91	—	1.1	NN3013	NN3013K	77000	116000	6400	7600	72	—	74	—	93	92	1	0.758	NN3013K																			
70	110	30	100	—	1.1	NN3014	NN3014K	97500	148000	5700	6800	77	—	78	—	103	101	1	1.04	NN3014K																			
75	115	30	105	—	1.1	NN3015	NN3015K	96500	149000	5500	6400	82	—	84	—	108	106	1	1.14	NN3015K																			
80	125	34	113	—	1.1	NN3016	NN3016K	119000	186000	5000	6000	87	—	90	—	118	114	1	1.52	NN3016K																			
85	130	34	118	—	1.1	NN3017	NN3017K	125000	201000	4800	5600	92	—	96	—	123	119	1	1.61	NN3017K																			
90	140	37	127	—	1.5	NN3018	NN3018K	143000	228000	4500	5200	98.5	—	100	—	131.5	129	1.5	2.07	NN3018K																			
95	145	37	132	—	1.5	NN3019	NN3019K	150000	246000	4300	5000	103.5	—	106	—	136.5	134	1.5	2.17	NN3019K																			
100	140	40	—	113	1.1	NNU4920	NNU4920K	155000	305000	4200	5000	106.5	111	110	115	133.5	—	1	1.77	NNU4920K																			
	150	37	137	—	1.5	NN3020	NN3020K	157000	265000	4000	4800	108.5	—	112	—	141.5	139	1.5	2.26	NN3020K																			
105	145	40	—	118	1.1	NNU4921	NNU4921K	161000	325000	4000	4800	111.5	116	115	120	138.5	—	1	1.85	NNU4921K																			
	160	41	146	—	2	NN3021	NN3021K	198000	320000	3800	4500	115	—	116	—	150	148	2	2.89	NN3021K																			
110	150	40	—	123	1.1	NNU4922	NNU4922K	167000	335000	3900	4600	116.5	121	120	125	143.5	—	1	1.93	NNU4922K																			
	170	45	155	—	2	NN3022	NN3022K	229000	375000	3600	4300	120	—	122	—	160	157	2	3.68	NN3022K																			
120	165	45	—	134.5	1.1	NNU4924	NNU4924K	183000	360000	3500	4200	126.5	133	130	137	158.5	—	1	2.65	NNU4924K																			
	180	46	165	—	2	NN3024	NN3024K	239000	405000	3300	3900	130	—	132	—	170	167	2	3.98	NN3024K																			
130	180	50	—	146	1.5	NNU4926	NNU4926K	275000	565000	3200	3800	138	144	142	148	172	—	1.5	3.55	NNU4926K																			
	200	52	182	—	2	NN3026	NN3026K	284000	475000	3000	3600	140	—	144	—	190	183	2	5.92	NN3026K																			
140	190	50	—	156	1.5	NNU4928	NNU4928K	283000	585000	3000	3600	148	154	151	158	182	—	1.5	3.80	NNU4928K																			
	210	53	192	—	2	NN3028	NN3028K	298000	515000	2800	3400	150	—	154	—	200	194	2	6.44	NN3028K																			
150	210	60	—	168.5	2	NNU4930	NNU4930K	350000	715000	2700	3300	159	166	162	171	201	—	2	5.95	NNU4930K																			
	225	56	206	—	2.1	NN3030	NN3030K	335000	585000	2600	3100	162	—	164	—	213	208	2	7.81	NN3030K																			
160	220	60	—	178.5	2	NNU4932	NNU4932K	365000	760000	2600	3100	169	176	172	182	211	—	2	6.25	NNU4932K																			
	240	60	219	—	2.1	NN3032	NN3032K	375000	660000	2500	2900	172	—	174	—	228	221	2	8.92	NN3032K																			
170	230	60	—	188.5	2	NNU4934	NNU4934K	375000	805000	2400	2900	179	186	182	192	221	—	2	6.60	NNU4934K																			
	260	67	236	—	2.1	NN3034	NN3034K	450000	805000	2300	2700	182	—	184	—	248	238	2	12.6	NN3034K																			
180	250	69	—	202	2	NNU4936	NNU4936K	480000	1020000	2200	2700	189	199	194	205	241	—	2	9.50	NNU4936K																			
	280	74	255	—	2.1	NN3036	NN3036K	565000	995000	2100	2500	192	—	196	—	268	257	2	16.6	NN3036K																			

Double-row Cylindrical Roller Bearings

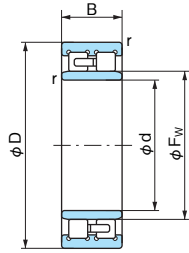
Bore Diameter: 190~320mm



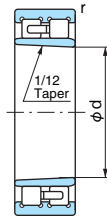
NN
Cylindrical bore



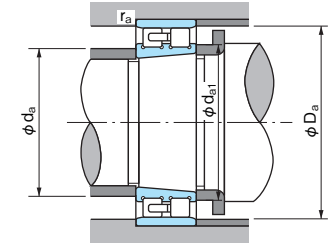
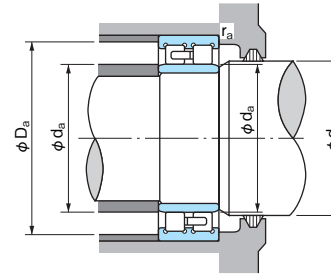
NN
Tapered bore (Taper: 1/12)



NNU
Cylindrical bore



NNU
Tapered bore (Taper: 1/12)



1N=0.102kgf

Boundary dimensions (mm)						Bearing No.		Basic dynamic load rating Cr (N)	Basic static load rating Cor (N)	Limiting speed (min ⁻¹)		Abutment and fillet dimensions (mm)						Mass (kg) (Reference Tapered bore)	Bearing No.	
d	D	B	Ew	Fw	r (min)	Cylindrical bore	Tapered bore			Grease lubrication	Oil lubrication	da		da1	dc	Da				ra
											(min)	(max)	(min)	(min)	(max)	(min)	(max)			
190	260	69	—	212	2	NNU4938	NNU4938K	485000	1060000	2100	2600	199	209	204	215	251	—	2	10.0	NNU4938K
	290	75	265	—	2.1	NN3038	NN3038K	595000	1080000	2000	2400	202	—	206	—	278	267	2	17.5	NN3038K
200	280	80	—	225	2.1	NNU4940	NNU4940K	570000	1220000	2000	2400	211	222	214	228	269	—	2	10.1	NNU4940K
	310	82	282	—	2.1	NN3040	NN3040K	655000	1170000	1900	2200	212	—	216	—	298	285	2	21.6	NN3040K
220	300	80	—	245	2.1	NNU4944	NNU4944K	600000	1330000	1800	2200	231	242	234	248	289	—	2	15.5	NNU4944K
	340	90	310	—	3	NN3044	NN3044K	815000	1480000	1700	2000	234	—	238	—	326	313	2.5	28.4	NN3044K
240	320	80	—	265	2.1	NNU4948	NNU4948K	625000	1450000	1700	2000	251	262	254	269	309	—	2	17.0	NNU4948K
	360	92	330	—	3	NN3048	NN3048K	855000	1600000	1600	1900	254	—	256	—	346	333	2.5	31.8	NN3048K
260	360	100	—	292	2.1	NNU4952	NNU4952K	935000	2100000	1500	1800	271	288	276	296	349	—	2	28.3	NNU4952K
	400	104	364	—	4	NN3052	NN3052K	1080000	2070000	1400	1700	278	—	280	—	382	367	3	46.0	NN3052K
280	380	100	—	312	2.1	NNU4956	NNU4956K	960000	2230000	1400	1700	291	308	296	316	369	—	2	30.3	NNU4956K
	420	106	384	—	4	NN3056	NN3056K	1080000	2080000	1300	1600	298	—	300	—	402	387	3	49.6	NN3056K
300	420	118	—	339	3	NNU4960	NNU4960K	1230000	2880000	1300	1500	313	335	320	343	407	—	2.5	46.7	NNU4960K
	460	118	418	—	4	NN3060	NN3060K	1430000	2740000	1200	1400	318	—	325	—	442	421	3	68.7	NN3060K
320	440	118	—	359	3	NNU4964	NNU4964K	1270000	3050000	1200	1400	333	335	340	363	427	—	2.5	49.6	NNU4964K
	480	121	438	—	4	NN3064	NN3064K	1430000	2750000	1200	1400	338	—	345	—	462	442	3	74.0	NN3064K