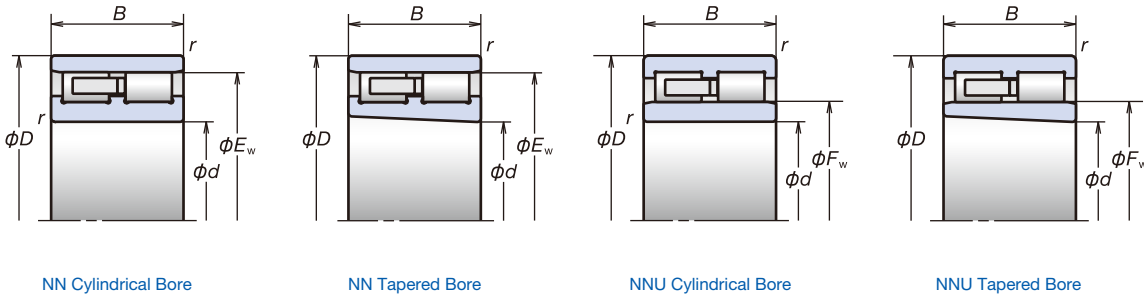


2. Cylindrical Roller Bearings

Bore Diameter 110-160mm

Double-Row Cylindrical Roller Bearings



Bearing Numbers (°)(°)	Boundary Dimensions (mm)				Basic Load Ratings (kN)		E _w (F _w in case of NNU type) (mm) (reference)	Mass (kg) (approx.)	Limiting Speeds (°) (min ⁻¹)	
	d	D	B	r (min.)	C _r (Dynamic)	C _{or} (Static)			Grease	Oil
NN3922MBKR	110	150	30	1.1	131	207	140	1.44	5 800	7 000
NN4922MBKR	110	150	40	1.1	192	335	140	1.92	5 800	7 000
NNU4922MBKR	110	150	40	1.1	192	335	122	1.90	5 800	7 000
*NN3022MBKR	110	170	45	2	263	375	155	4.35	5 400	6 500
*NN3022TBKR	110	170	45	2	263	375	155	3.21	6 100	7 200
*NN3022ZTBKR	110	170	45	2	156	188	155	2.78	6 400	8 500
NN3924MBKR	120	165	34	1.1	158	251	153.5	2.02	5 300	6 400
NN4924MBKR	120	165	45	1.1	211	360	153.5	2.62	5 300	6 400
NNU4924MBKR	120	165	45	1.1	211	360	133.5	2.59	5 300	6 400
*NN3024MBKR	120	180	46	2	275	405	165	4.72	5 000	6 000
*NN3024TBKR	120	180	46	2	275	405	165	3.50	5 700	6 700
*NN3024ZTBKR	120	180	46	2	164	203	165	3.03	6 000	7 900
NN3926MBKR	130	180	37	1.5	199	325	167	2.64	4 900	5 900
NN4926MBKR	130	180	50	1.5	315	545	168	3.51	4 900	5 900
NNU4926MBKR	130	180	50	1.5	315	545	144	3.48	4 900	5 900
*NN3026MBKR	130	200	52	2	325	475	182	5.53	4 600	5 500
*NN3026TBKR	130	200	52	2	325	475	182	5.10	5 200	6 100
*NN3026ZTBKR	130	200	52	2	195	238	182	4.46	5 500	7 200
NN3928MBKR	140	190	37	1.5	232	375	178	2.79	4 600	5 500
NN4928MBKR	140	190	50	1.5	325	585	178	3.73	4 600	5 500
NNU4928MBKR	140	190	50	1.5	325	585	154	3.70	4 600	5 500
*NN3028MBKR	140	210	53	2	345	515	192	5.95	4 300	5 200
*NN3028TBKR	140	210	53	2	345	515	192	5.51	4 900	5 700
*NN3028ZTBKR	140	210	53	2	204	258	192	4.81	5 200	6 800
NN3930MBKR	150	210	45	2	300	490	195	4.47	4 200	5 000
NN4930MBKR	150	210	60	2	405	715	195	5.79	4 200	5 000
NNU4930MBKR	150	210	60	2	405	715	167	5.85	4 200	5 000
*NN3030MBKR	150	225	56	2.1	385	585	206	7.29	4 000	4 800
*NN3030TBKR	150	225	56	2.1	385	585	206	6.70	4 500	5 300
*NN3030ZTBKR	150	225	56	2.1	229	294	206	5.87	4 800	6 300
NN3932MBKR	160	220	45	2	310	520	205	4.72	4 000	4 800
NN4932MBKR	160	220	60	2	420	760	205	6.19	4 000	4 800
NNU4932MBKR	160	220	60	2	420	760	177	6.18	4 000	4 800
*NN3032MBKR	160	240	60	2.1	430	660	219	8.83	3 800	4 500
*NN3032TBKR	160	240	60	2.1	430	660	219	8.18	4 300	5 000
*NN3032ZTBKR	160	240	60	2.1	255	330	219	7.20	4 500	6 000

Abutment and Fillet Dimensions (mm)					Clearances in Bearings with Tapered Bores (µm)						Clearances in Bearings with Cylindrical Bores (µm)		E44 Specification Lubrication Holes Dimensions (mm)		
d _a (min.)	d _{1a} (min.)	D _a		r _a (max.)	CC9 (°)		CC0		CC1		CC1		Hole Dia. dh	Oil Groove Width W	Number of Holes m
		(max.)	(min.)		min.	max.	min.	max.	min.	max.	min.	max.			
116.5	118	143.5	142	1	10	25	20	35	25	50	10	30	2	3.5	4
116.5	118	143.5	142	1	10	25	20	35	25	50	10	30	2.5	5	4
116.5	118	143.5	—	1	10	25	20	35	25	50	10	30	2.5	5	4
119	121	161	157	2	10	25	20	35	25	50	10	30	3	6	4
119	121	161	157	2	10	25	20	35	25	50	10	30	3	6	4
119	121	161	157	2	10	25	20	35	25	50	10	30	3	6	4
126.5	128	158.5	156	1	10	25	20	35	25	50	10	30	2.5	5	4
126.5	128	158.5	156	1	10	25	20	35	25	50	10	30	3	6	4
126.5	128	158.5	—	1	10	25	20	35	25	50	10	30	3	6	4
129	131	171	167	2	10	25	20	35	25	50	10	30	3	6	4
129	131	171	167	2	10	25	20	35	25	50	10	30	3	6	4
129	131	171	167	2	10	25	20	35	25	50	10	30	3	6	4
138	140	172	169	1.5	15	30	25	40	30	60	10	35	2.5	5	4
138	140	172	170	1.5	15	30	25	40	30	60	10	35	3	6	4
138	140	172	—	1.5	15	30	25	40	30	60	10	35	3	6	4
139	141	191	185	2	15	30	25	40	30	60	10	35	4	8	4
139	141	191	185	2	15	30	25	40	30	60	10	35	4	8	4
139	141	191	185	2	15	30	25	40	30	60	10	35	4	8	4
148	150	182	180	1.5	15	30	25	40	30	60	10	35	2.5	5	4
148	150	182	180	1.5	15	30	25	40	30	60	10	35	3	6	4
148	150	182	—	1.5	15	30	25	40	30	60	10	35	3	6	4
149	151	201	195	2	15	30	25	40	30	60	10	35	4	8	4
149	151	201	195	2	15	30	25	40	30	60	10	35	4	8	4
149	151	201	195	2	15	30	25	40	30	60	10	35	4	8	4
159	162	201	197	2	15	35	30	50	35	65	10	35	3	6	4
159	162	201	197	2	15	35	30	50	35	65	10	35	4	8	4
159	162	201	—	2	15	35	30	50	35	65	10	35	4	8	4
161	162	214	209	2	15	35	30	50	35	65	10	35	4	8	4
161	162	214	209	2	15	35	30	50	35	65	10	35	4	8	4
161	162	214	209	2	15	35	30	50	35	65	10	35	4	8	4
169	172	211	207	2	15	35	30	50	35	65	10	35	3	6	4
169	172	211	207	2	15	35	30	50	35	65	10	35	4	8	4
169	172	211	—	2	15	35	30	50	35	65	10	35	4	8	4
171	172	229	222	2	15	35	30	50	35	65	10	35	4	8	4
171	172	229	222	2	15	35	30	50	35	65	10	35	4	8	4
171	172	229	222	2	15	35	30	50	35	65	10	35	4	8	4

(°) The suffix "K" or "KR" represents bearings with tapered bores (1 : 12). For the cylindrical bore type, eliminate the symbol and leave this symbol blank.
(°) GN gauge is available for the bearings denoted by an asterisk (*). For GN gauge, please refer to Page 180.
(°) For application of limiting speeds, please refer to Page 216.
(°) Clearance CC9 is applicable to cylindrical roller bearings with tapered bores in ISO Tolerance Classes 5 and 4.

For additional information:
● Dynamic equivalent load ······ P191
● Static equivalent load ······ P198
● Nozzle Position ······ P240
● Recommended Grease Quantities ··· P257