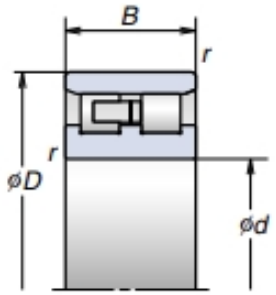
Double Row Cylindrical Roller Bearings (High Rigidity Series)



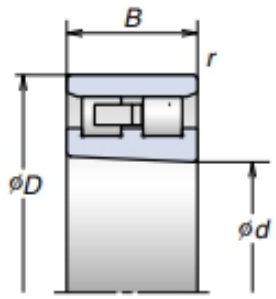
*Cylindrical Bore

30 Series

Bore Diameter 25-200 mm

Bearing Numbers	Boundary Dimensions (mm)				Basic Load Ratings (kN)		Mass (kg)	Limiting Speeds (¹) (min⁻¹)	
	d	D	B	r	C_r (Dynamic)	C_{0r} (Static)	(approx)	Grease	Oil
NN3005MBKR	25	47	16	0.6	25.8	30.0	0.127	20 900	25 000
NN3006MBKR	30	55	19	1.0	31.0	37.0	0.198	17 700	21 200
NN3006TBKR	30	55	19	1.0	31.0	37.0	0.172	20 000	23 600
NN3007MBKR	35	62	20	1.0	39.5	50.0	0.258	15 500	18 600
NN3007TBKR	35	62	20	1.0	39.5	50.0	0.224	17 600	20 700
NN3008MBKR	40	68	21	1.0	43.5	55.5	0.309	13 900	16 700
NN3008TBKR	40	68	21	1.0	43.5	55.5	0.283	15 800	18 600
NN3009MBKR	45	75	23	1.0	52.0	68.5	0.407	12 500	15 000
NN3009TBKR	45	75	23	1.0	52.0	68.5	0.373	14 200	16 700
NN3010MBKR	50	80	23	1.0	53.0	72.5	0.436	11 600	13 900
NN3010TBKR	50	80	23	1.0	53.0	72.5	0.402	13 100	15 400
NN3011MBKR	55	90	26	1.1	69.5	96.5	0.647	10 400	12 500
NN3011TBKR	55	90	26	1.1	69.5	96.5	0.592	11 800	13 800
NN3012MBKR	60	95	26	1.1	73.5	106	0.693	9 700	11 700
NN3012TBKR	60	95	26	1.1	73.5	106	0.635	11 000	13 000
NN3013MBKR	65	100	26	1.1	77.0	116	0.741	9 100	11 000
NN3013TBKR	65	100	26	1.1	77.0	116	0.681	10 400	12 200
NN3014MBKR	70	110	30	1.1	94.5	143	1.060	8 400	10 000
NN3014TBKR	70	110	30	1.1	94.5	143	0.988	9 500	11 200
NN3015MBKR	75	115	30	1.1	96.5	149	1.110	7 900	9 500
NN3015TBKR	75	115	30	1.1	96.5	149	1.030	9 000	10 600
NN3016MBKR	80	125	34	1.1	119	186	1.540	7 400	8 800
NN3016TBKR	80	125	34	1.1	119	186	1.440	8 300	9 800
NN3017MBKR	85	130	34	1.1	122	194	1.630	7 000	8 400
NN3017TBKR	85	130	34	1.1	122	194	1.520	8 000	9 400

(¹) For application of limiting speeds, please refer to Page 152.
*For the cylindrical bore type, eliminate the "KR" symbol and leave this symbol blank.



Tapered Bore

30 Series (continued)

Bearing Numbers	Boundary Dimensions (mm)				Basic Load Ratings (kN)		Mass (kg)	Limiting Speeds (1) (min⁻¹)	
	d	D	B	r	C_r (Dynamic)	C_{or} (Static)	(approx)	Grease	Oil
NN3018MBKR	**90**	**140**	**37**	1.5	143	228	2.090	6 600	7 900
NN3018TBKR	**90**	**140**	**37**	1.5	143	228	1.930	7 400	8 700
NN3019MBKR	**95**	**145**	**37**	1.5	146	238	2.190	6 300	7 500
NN3019TBKR	**95**	**145**	**37**	1.5	146	238	2.030	7 100	8 400
NN3020MBKR	**100**	**150**	**37**	1.5	149	247	2.280	6 000	7 200
NN3020TBKR	**100**	**150**	**37**	1.5	149	247	2.120	6 800	8 000
NN3021MBKR	**105**	**160**	**41**	2.0	192	310	2.880	5 700	6 800
NN3021TBKR	**105**	**160**	**41**	2.0	192	310	2.690	6 500	7 600
NN3022MBKR	**110**	**170**	**45**	2.0	222	360	3.710	5 400	6 500
NN3022TBKR	**110**	**170**	**45**	2.0	222	360	3.440	6 100	7 200
NN3024MBKR	**120**	**180**	**46**	2.0	233	390	4.040	5 000	6 000
NN3024TBKR	**120**	**180**	**46**	2.0	233	390	3.750	5 700	6 700
NN3026MBKR	**130**	**200**	**52**	2.0	284	475	5.880	4 600	5 500
NN3026TBKR	**130**	**200**	**52**	2.0	284	475	5.470	5 200	6 100
NN3028MBKR	**140**	**210**	**53**	2.0	298	515	6.340	4 300	5 200
NN3030MBKR	**150**	**225**	**56**	2.1	335	585	7.760	4 000	4 800
NN3032MBKR	**160**	**240**	**60**	2.1	375	660	9.410	3 800	4 500
NN3034MBKR	**170**	**260**	**67**	2.1	450	805	12.80	3 500	4 200
NN3036MBKR	**180**	**280**	**74**	2.1	565	995	16.80	3 300	4 000
NN3038MBKR	**190**	**290**	**75**	2.1	595	1 080	17.80	3 200	3 800
NN3040MBKR	**200**	**310**	**82**	2.1	655	1 170	22.70	3 000	3 600

(1) For application of limiting speeds, please refer to Page 152.

For additional information: Page No.
- Dynamic equivalent load ····· 121
- Static equivalent load ····· 128
- Radial clearance ····· 151
- Abutment and fillet dimensions ····· 168
- Nozzle position ····· 174
- Quantity of packed grease ····· 157

Lubrication Holes Dimensions (E44 Specification)

Unit: mm

Outer Ring Width		Lubrication Hole	Machined Lubrication Groove	Number of Holes
Over	incl.	dh	W	m
–	30	2	3.5	4
30	40	2.5	5	
40	50	3	6	
50	60	4	8	
60	80	5	9	
80	120	6	12	
120	160	8	15	
160	200	10	18	
200	–	12	20	

