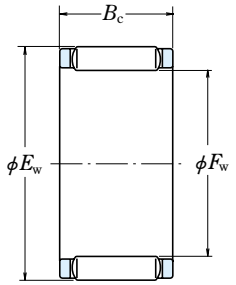
FWF • FWJ

Inscribed Circle Diameter 5 – 22 mm

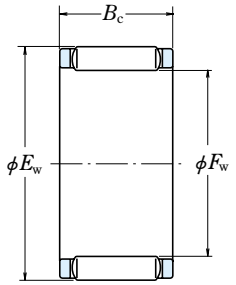


Boundary Dimensions (mm)			Basic Load Ratings (N)		Basic Load Ratings {kgf}		Limiting Speeds (min^{-1})		Bearing Numbers	Mass (g)
F_W	E_W	$B_C{}^{-0.2}_{-0.55}$	C_r	C_{0r}	C_r	C_{0r}	Grease	Oil		approx.
5	8	8	2 330	1 860	237	189	60 000	95 000	✻ **FBNP-588**	1.0
6	9	8	2 200	1 780	224	182	48 000	75 000	✻ **FBNP-698**	1.2
	9	10	3 350	3 050	340	310	48 000	75 000	✻ **FBNP-6910**	1.5
7	10	8	2 840	2 560	290	261	40 000	67 000	✻ **FBNP-7108**	1.3
	10	10	3 650	3 550	375	360	40 000	67 000	✻ **FBNP-71010**	1.6
8	11	10	3 950	4 000	400	410	34 000	56 000	✻ **FBNP-81110**	1.8
	11	13	4 750	5 150	485	525	34 000	56 000	✻ **FBNP-81113**	2.6
9	12	10	3 750	3 850	380	395	30 000	50 000	✻ **FBNP-91210**	2.0
	12	13	5 100	5 750	520	585	30 000	50 000	✻ **FBNP-91213**	2.6
10	13	10	3 950	4 300	405	435	28 000	45 000	**FBN-101310**	2.2
	13	13	5 400	6 350	550	650	28 000	45 000	**FBN-101313**	2.9
	14	13	6 500	6 750	660	690	28 000	45 000	**FWF-101413**	4.0
12	15	10	4 350	5 100	445	520	22 000	36 000	**FBN-121510**	2.6
	15	13	5 950	7 600	605	775	22 000	36 000	**FBN-121513**	3.4
	16	13	7 350	8 350	750	850	22 000	38 000	**FWF-121613**	4.6
14	18	10	6 750	7 750	690	790	19 000	32 000	**FWF-141810**	4.1
	18	13	8 050	9 750	820	995	19 000	32 000	**FWF-141813**	5.3
	20	17	13 400	14 600	1 370	1 490	20 000	32 000	**FWF-142017**	11
15	19	10	7 050	8 400	720	855	18 000	28 000	**FWF-151910**	4.3
	19	13	8 400	10 500	860	1 070	18 000	28 000	**FWF-151913**	5.6
	21	17	13 400	14 800	1 370	1 510	19 000	30 000	**FWF-152117**	12
16	20	10	7 350	9 000	750	920	17 000	26 000	**FWF-162010**	4.6
	20	13	8 800	11 300	895	1 150	17 000	26 000	**FWF-162013**	6.0
	22	17	14 700	16 900	1 500	1 720	17 000	28 000	**FWF-162217**	12
17	21	10	7 650	9 650	780	985	16 000	26 000	**FWF-172110**	4.8
	21	13	10 200	14 000	1 040	1 420	16 000	26 000	**FWJ-172113**	6.3
	23	17	15 100	17 800	1 540	1 810	16 000	26 000	**FWF-172317**	14
18	22	10	7 900	10 300	805	1 050	15 000	24 000	**FWF-182210**	5.1
	22	13	9 450	12 900	965	1 310	15 000	24 000	**FWF-182213**	6.6
	24	17	17 400	21 600	1 770	2 210	15 000	24 000	**FWJ-182417**	14
20	24	10	8 000	10 700	815	1 090	13 000	20 000	**FWF-202410**	5.6
	24	13	9 700	13 700	990	1 400	13 000	20 000	**FWF-202413**	7.3
	26	17	18 000	23 200	1 830	2 370	14 000	22 000	**FWJ-202617**	15
22	26	10	8 600	12 200	880	1 240	12 000	19 000	**FWF-222610**	6.1
	26	13	10 300	15 300	1 050	1 560	12 000	19 000	**FWF-222613**	7.9
	28	17	17 300	22 700	1 760	2 310	12 000	20 000	**FWF-222817**	16

Note (✻) These bearings have polyamide cages. The maximum permissible operating temperature for these bearings is 100 °C for continued operation and 120 °C for short periods.

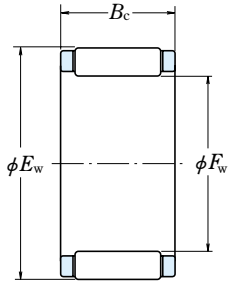
FWF • FWJ

Inscribed Circle Diameter 25 – 100 mm



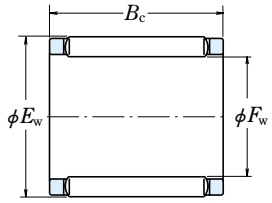
Boundary Dimensions (mm)			Basic Load Ratings (N)		Basic Load Ratings {kgf}		Limiting Speeds (min^{-1})		Bearing Numbers	Mass (g)
F_W	E_W	$B_C{}^{-0.2}_{-0.55}$	C_r	C_{0r}	C_r	C_{0r}	Grease	Oil		approx.
25	29	10	9 350	14 100	950	1 440	10 000	17 000	**FWF-252910**	6.9
	29	13	11 300	18 000	1 150	1 830	10 000	17 000	**FWF-252913**	8.9
	31	17	19 200	26 800	1 950	2 740	10 000	17 000	**FWF-253117**	18
28	33	13	13 700	20 400	1 400	2 080	9 500	15 000	**FWF-283313**	13
	33	17	17 600	28 300	1 800	2 890	9 500	15 000	**FWF-283317**	16
	34	17	19 900	29 100	2 020	2 970	9 500	15 000	**FWF-283417**	20
30	35	13	14 000	21 600	1 430	2 200	8 500	14 000	**FWF-303513**	14
	35	17	18 700	31 500	1 910	3 200	8 500	14 000	**FWF-303517A**	18
	37	20	26 000	38 000	2 650	3 850	9 000	14 000	**FWF-303720**	30
32	37	13	15 100	24 400	1 540	2 480	8 000	13 000	**FWF-323713**	14
	37	17	18 500	31 500	1 880	3 200	8 000	13 000	**FWJ-323717**	19
	39	20	27 300	41 000	2 780	4 200	8 500	13 000	**FWF-323920**	32
35	40	13	14 900	24 600	1 520	2 500	7 500	12 000	**FWF-354013**	16
	40	17	20 500	37 000	2 090	3 750	7 500	12 000	**FWF-354017**	20
	42	20	30 000	47 500	3 050	4 850	7 500	12 000	**FWJ-354220**	34
40	45	17	21 000	40 000	2 150	4 050	6 300	10 000	**FWF-404517A**	23
	45	27	32 000	68 000	3 250	6 900	6 300	10 000	**FWF-404527**	36
	48	25	40 500	66 500	4 150	6 800	6 700	10 000	**FWF-404825**	56
45	50	17	21 600	43 000	2 200	4 350	5 600	9 000	**FWF-455017**	26
	50	27	34 000	77 500	3 500	7 900	5 600	9 000	**FWF-455027**	41
	53	25	44 000	77 000	4 500	7 850	5 600	9 500	**FWF-455325**	62
50	55	20	26 900	59 000	2 750	6 050	5 000	8 000	**FWF-505520**	37
	55	27	35 000	83 000	3 600	8 450	5 000	8 000	**FWF-505527**	50
	58	25	48 500	90 500	4 950	9 200	5 300	8 500	**FWF-505825**	77
55	61	20	31 000	64 000	3 150	6 500	4 500	7 500	**FWF-556120**	53
	61	30	47 000	109 000	4 750	11 100	4 500	7 500	**FWF-556130**	81
	63	25	50 000	97 500	5 100	9 950	4 800	7 500	**FWF-556325**	85
60	66	20	33 000	71 500	3 350	7 300	4 300	6 700	**FWF-606620**	57
	66	30	50 000	122 000	5 100	12 400	4 300	6 700	**FWF-606630**	87
	68	25	52 000	105 000	5 300	10 700	4 300	6 700	**FWF-606825**	91
65	73	30	61 000	132 000	6 200	13 400	4 000	6 300	**FWF-657330**	120
70	78	30	63 000	140 000	6 400	14 300	3 600	6 000	**FWF-707830**	125
75	83	30	65 000	151 000	6 650	15 400	3 400	5 600	**FWF-758330**	135
80	88	30	69 000	166 000	7 050	17 000	3 200	5 000	**FWF-808830**	145
85	93	30	71 000	176 000	7 250	17 900	3 000	4 800	**FWF-859330**	150
90	98	30	70 000	177 000	7 150	18 000	2 800	4 500	**FWF-909830**	160
95	103	30	69 500	177 000	7 100	18 100	2 600	4 300	**FWF-9510330**	175
100	108	30	75 500	201 000	7 700	20 500	2 400	4 000	**FWF-10010830**	185

Cage & Needle Roller Assemblies for Large Ends of Connecting Rods
Inscribed Circle Diameter 12 – 30 mm



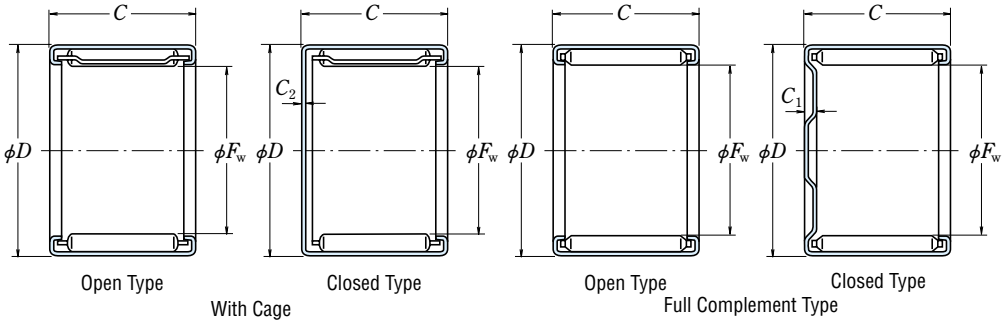
Boundary Dimensions (mm)			Basic Load Ratings (N)		Basic Load Ratings {kgf}		Bearing Numbers	Mass (g)
F_W	E_W	$B_C{}^{-0.2}_{-0.4}$	C_r	C_{0r}	C_r	C_{0r}		approx.
12	16	10	6 100	6 500	620	665	**FWF-121610-E**	4.0
14	19	10	7 800	8 050	795	820	**FWF-141910-E**	6.2
	20	12	8 900	8 600	910	880	**FWF-142012-E**	8.3
15	19	9	5 650	6 250	575	640	**FWF-15199-E**	4.1
	20	10	7 300	7 600	745	775	**FWF-152010-E**	6.0
	21	10	7 950	7 500	810	765	**FWF-152110-E**	8.5
16	21	11	8 650	9 600	880	980	**FWF-162111-E**	7.5
	22	12	9 500	9 600	965	980	**FWF-162212-E**	9.5
18	23	14	11 800	14 800	1 200	1 510	**FWF-182314-E**	10
	24	12	10 000	10 600	1 020	1 080	**FWF-182412-E**	11
20	26	12	12 200	14 100	1 250	1 440	**FWF-202612-E**	13
	26	17	16 800	21 200	1 710	2 160	**FWF-202617-E**	17
	28	18	18 100	19 400	1 840	1 970	**FWF-202818-E**	25
22	28	14	13 900	17 100	1 420	1 740	**FWF-222814-E**	14
	29	15	16 300	19 000	1 660	1 930	**FWF-222915-E**	19
	32	16	19 700	19 400	2 010	1 970	**FWF-223216-E**	31
23	31	16	17 600	19 400	1 800	1 980	**FWF-233116-E**	23
24	30	15	15 600	20 300	1 590	2 070	**FWF-243015-E**	17
	30	17	17 900	24 300	1 830	2 480	**FWF-243017-E**	19
	31	20	21 600	27 800	2 200	2 840	**FWF-243120-E**	30
25	32	16	17 700	21 900	1 810	2 230	**FWF-253216-E**	24
28	35	16	18 400	23 700	1 880	2 410	**FWF-283516-E**	25
29.75	36.75	16.5	19 600	26 000	1 990	2 650	**FWF-293616Z-E**	28
30	37	16	21 900	30 500	2 230	3 100	**FWF-303716-E**	29
	38	18	25 500	34 000	2 600	3 450	**FWF-303818-E**	35

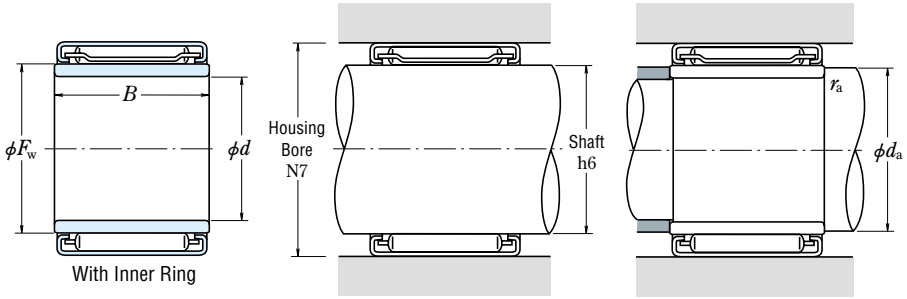
Cage & Needle Roller Assemblies for Small Ends of Connecting Rods
Inscribed Circle Diameter 9 – 19 mm



Boundary Dimensions (mm)			Basic Load Ratings (N)		Basic Load Ratings {kgf}		Bearing Numbers	Mass (g)
F_W	E_W	$B_C{}^{-0.2}_{-0.4}$	C_r	C_{0r}	C_r	C_{0r}		approx.
9	12	11.5	4 300	4 650	440	475	**FBN-91211Z-E**	3.5
10	14	12.7	5 900	5 950	605	610	**FBN-101412Z-E**	5.0
12	15	14.3	6 400	8 400	655	855	**FBN-121514Z-E**	4.8
	16	13	7 250	8 200	740	835	**FBN-121613-E**	6.4
	16	15.5	8 500	10 000	865	1 020	**FBN-121615Z-E**	7.0
	16	16	8 500	10 000	865	1 020	**FBN-121616-E**	7.5
14	18	12	6 950	8 050	710	820	**FBN-141812-E**	6.5
	18	16.5	9 250	11 600	945	1 180	**FBN-141816Z-E**	8.5
	18	18	10 700	14 000	1 090	1 430	**FBN-141818-E**	11.5
	18	20	9 550	12 000	975	1 230	**FBN-141820-E1**	13
15	19	18	11 300	15 300	1 150	1 560	**FBN-151918-E**	11
	21	18	12 900	13 900	1 310	1 420	**FBN-152118-E**	13
16	20	22	13 700	20 000	1 400	2 040	**FBN-162022-E**	14
	20	23.5	14 900	22 300	1 520	2 280	**FBN-162023Z-E**	15
	21	20	14 200	18 100	1 450	1 840	**FBN-162120-E**	16
17	21	23	14 800	22 500	1 510	2 290	**FBN-172123-E**	16
18	22	17	11 500	16 500	1 170	1 680	**FBN-182217-E**	12
	22	22	14 200	21 600	1 440	2 200	**FBN-182222-E**	15
	22	23.6	15 400	24 100	1 570	2 460	**FBN-182223Z-E**	16
19	23	23.7	16 000	25 800	1 630	2 630	**FBN-192323Z-E**	17

FJ • MFJ (With Cage)
F • MF (Full Complement Type)
Inscribed Circle Diameter 4 – 16 mm



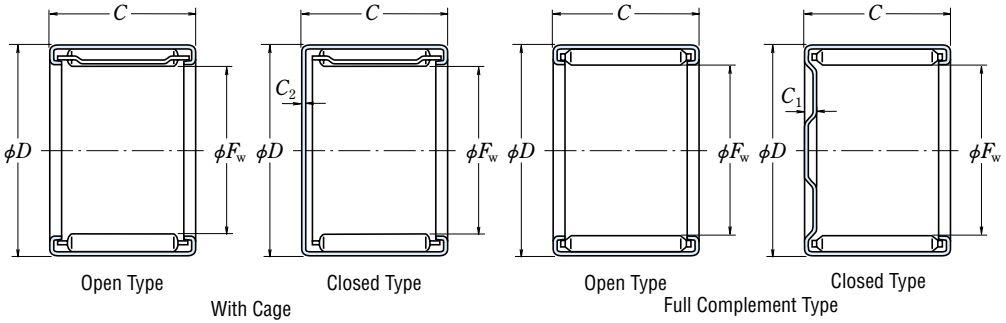


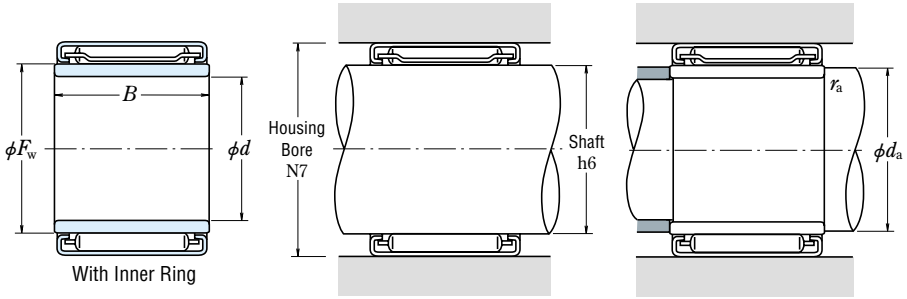
Boundary Dimensions (mm)				Basic Dynamic Load Ratings (N)	{kgf}	Limiting Loads (N)	{kgf}	Limiting Speeds (min⁻¹)		Bearing Numbers With Cage	
F_W	D	$C^{0}_{-0.25}$	C_1, C_2 max.	C_r		P_{max}		Grease	Oil	Open	Closed
4	8	8	0.8	1 720	175	675	69	45 000	75 000	* **FJP-48**	—
5	9	9	0.8	1 860	190	745	76	43 000	71 000	**FJ-59**	**MFJ-59**
6	10	9	0.8	2 320	237	985	101	36 000	56 000	**FJ-69**	**MFJ-69**
7	11	9	0.8	2 550	260	1 110	113	30 000	48 000	**FJ-79**	**MFJ-79**
8	12	10	0.8	2 840	289	1 270	130	26 000	43 000	**FJ-810**	**MFJ-810**
	14	10	1.0	4 300	435	1 770	180	28 000	45 000	**FJH-810**	**MFJH-810**
	14	10	1.9	5 550	565	2 980	305	6 300	10 000	—	—
9	13	10	0.8	3 300	335	1 600	163	22 000	36 000	**FJ-910**	**MFJ-910**
	15	10	1.0	4 550	465	1 910	194	24 000	40 000	**FJH-910**	**MFJH-910**
	15	10	1.8	6 100	625	3 350	340	6 000	10 000	—	—
10	14	10	0.8	3 500	360	1 760	179	20 000	32 000	**FJ-1010**	**MFJ-1010**
	16	10	1.0	4 900	500	2 100	214	22 000	34 000	**FJH-1010**	**MFJH-1010**
	16	10	1.9	6 650	680	3 700	375	5 600	9 000	—	—
12	16	10	0.8	4 150	420	2 210	225	17 000	26 000	**FJ-1210**	**MFJ-1210**
	18	12	1.0	6 450	655	3 050	310	17 000	28 000	**FJH-1212**	**MFJH-1212**
	18	12	1.9	9 000	920	5 700	580	4 500	7 500	—	—
13	19	12	1.0	6 950	710	3 400	345	16 000	26 000	**FJ-1312**	**MFJ-1312**
	19	12	1.9	9 550	975	6 100	625	4 300	7 100	—	—
14	20	12	1.0	6 500	665	3 250	335	15 000	24 000	**FJ-1412**	**MFJ-1412**
	20	12	2.2	9 450	965	6 350	645	3 800	6 000	—	—
	20	16	1.0	9 500	970	5 300	540	15 000	24 000	**FJ-1416**	**MFJ-1416**
	20	16	2.2	13 300	1 360	9 850	1 000	3 800	6 000	—	—
15	21	12	1.0	7 650	780	3 900	400	14 000	22 000	**FJ-1512**	**MFJ-1512**
	21	12	1.8	10 300	1 050	6 900	705	3 800	6 000	—	—
	21	14	1.8	12 400	1 270	8 800	895	3 800	6 000	—	—
	21	16	1.0	11 000	1 120	6 200	635	14 000	22 000	**FJ-1516**	**MFJ-1516**
	21	16	1.8	14 500	1 480	10 700	1 090	3 800	6 000	—	—
16	22	12	1.0	7 100	725	3 750	380	12 000	20 000	**FJ-1612**	**MFJ-1612**
	22	12	2.2	10 200	1 040	7 100	725	3 400	5 300	—	—
	22	16	1.0	10 400	1 060	6 050	620	12 000	20 000	**FJ-1616**	**MFJ-1616**
	22	16	2.2	14 400	1 460	11 100	1 130	3 400	5 300	—	—

Numbers Full Complement Type		In case of inner ring is used					Mass Without Inner Ring (g)	
		Bearing Numbers of Inner Ring	Boundary Dimensions (mm)		Abutment and Fillet Dimensions (mm)		approx.	
Open	Closed		d	B	d_a(min.)	r_a(max.)	Open	Closed
—	—	—	—	—	—	—	1.3	—
—	—	—	—	—	—	—	1.7	1.9
—	—	—	—	—	—	—	2.2	2.4
—	—	—	—	—	—	—	2.3	2.7
—	—	—	—	—	—	—	2.7	3.2
—	—	—	—	—	—	—	5.2	5.5
FH-810	**MFH-810**	—	—	—	—	—	6.0	6.3
—	—	—	—	—	—	—	3.2	3.6
—	—	—	—	—	—	—	5.7	6.1
FH-910	**MFH-910**	—	—	—	—	—	6.4	6.8
—	—	**FIR-71010**	7	10.5	9	0.3	3.6	4.1
—	—	**FIR-71010**	7	10.5	9	0.3	6.1	6.6
FH-1010	**MFH-1010**	**FIR-71010**	7	10.5	9	0.3	6.9	7.3
—	—	**FIR-81210**	8	10.5	10	0.3	4.1	4.5
—	—	**FIR-81212**	8	12.5	10	0.3	7.7	8.2
FH-1212	**MFH-1212**	**FIR-81212**	8	12.5	10	0.3	10	11
—	—	**FIR-101312**	10	12.5	12	0.3	8.6	9.5
F-1312	**MF-1312**	**FIR-101312**	10	12.5	12	0.3	11	12
—	—	**FIR-101412**	10	12.5	12	0.3	10	11
F-1412	**MF-1412**	**FIR-101412**	10	12.5	12	0.3	12	14
—	—	**FIR-101416**	10	16.5	12	0.3	13	14
F-1416	**MF-1416**	**FIR-101416**	10	16.5	12	0.3	18	19
—	—	**FIR-121512**	12	12.5	14	0.3	10	11
F-1512	**MF-1512**	**FIR-121512**	12	12.5	14	0.3	12	14
F-1514	**MF-1514**	—	—	—	—	—	15	16
—	—	**FIR-121516**	12	16.5	14	0.3	13	14
F-1516	**MF-1516**	**FIR-121516**	12	16.5	14	0.3	17	18
—	—	**FIR-121612**	12	12.5	14	0.3	11	12
F-1612	**MF-1612**	**FIR-121612**	12	12.5	14	0.3	14	15
—	—	**FIR-121616**	12	16.5	14	0.3	14	15
F-1616	**MF-1616**	**FIR-121616**	12	16.5	14	0.3	18	20

Note (*) These bearing have polyamide cages. The maximum permissible operating temperature for these bearings is 100 °C for continued operation and 120 °C for short periods.

FJ • MFJ (With Cage)
F • MF (Full Complement Type)
Inscribed Circle Diameter 17 – 28 mm

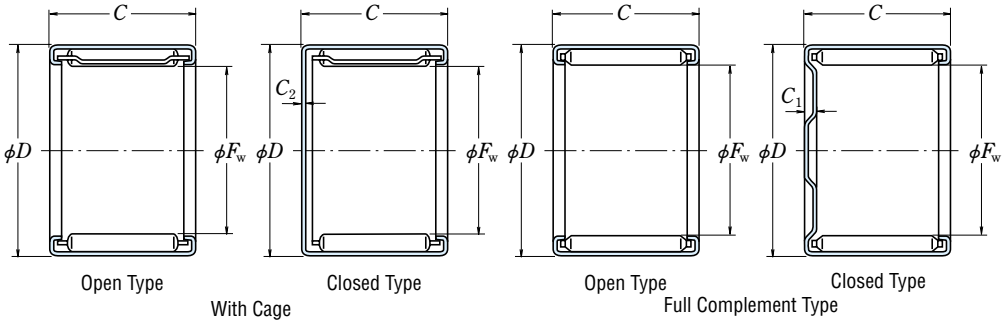


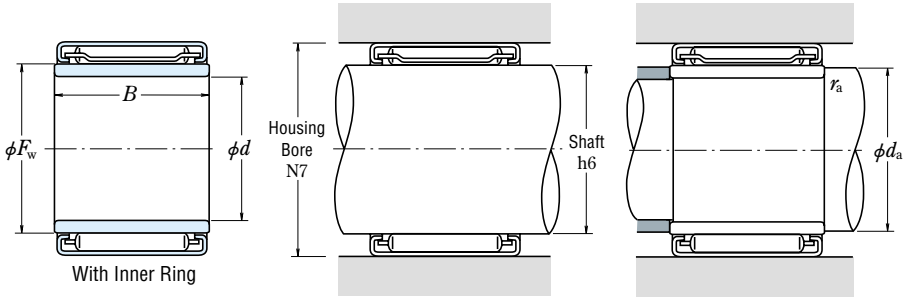


Boundary Dimensions (mm)				Basic Dynamic Load Ratings (N)	{kgf}	Limiting Loads (N)	{kgf}	Limiting Speeds (min⁻¹)		Bearing Numbers With Cage	
F_W	D	$C^{0}_{-0.25}$	C_1, C_2 max.	C_r		P_{max}		Grease	Oil	Open	Closed
17	23	12	1.0	8 450	860	4 450	455	12 000	19 000	**FJ-1712**	**MFJ-1712**
	23	12	1.8	11 300	1 150	7 750	790	3 400	5 600	—	—
	23	16	1.0	12 100	1 230	7 100	720	12 000	19 000	**FJ-1716**	**MFJ-1716**
	23	16	1.8	15 800	1 610	12 000	1 220	3 400	5 600	—	—
18	24	12	1.0	7 650	780	4 200	430	11 000	18 000	**FJ-1812**	**MFJ-1812**
	24	12	2.2	10 900	1 110	7 900	805	3 000	5 000	—	—
	24	16	1.0	11 200	1 140	6 800	695	11 000	18 000	**FJ-1816**	**MFJ-1816**
	24	16	2.2	15 300	1 560	12 300	1 250	3 000	5 000	—	—
20	26	12	1.0	8 150	835	4 650	475	10 000	16 000	**FJ-2012**	**MFJ-2012**
	26	12	2.2	11 500	1 170	8 700	885	2 800	4 500	—	—
	26	16	1.0	11 900	1 210	7 550	770	10 000	16 000	**FJ-2016**	**MFJ-2016**
	26	16	2.2	16 200	1 650	13 500	1 380	2 800	4 500	—	—
	26	20	1.0	15 300	1 560	10 500	1 070	10 000	16 000	**FJ-2020**	**MFJ-2020**
	26	20	2.2	20 500	2 090	18 300	1 870	2 800	4 500	—	—
22	28	12	1.0	8 650	880	5 150	525	9 000	14 000	**FJ-2212**	**MFJ-2212**
	28	12	2.2	12 100	1 230	9 500	970	2 400	4 000	—	—
	28	16	1.0	12 600	1 290	8 350	850	9 000	14 000	**FJ-2216**	**MFJ-2216**
	28	16	2.2	17 100	1 740	14 800	1 510	2 400	4 000	—	—
	28	20	1.0	16 200	1 660	11 500	1 180	9 000	14 000	**FJ-2220**	**MFJ-2220**
	28	20	2.2	21 600	2 200	20 000	2 040	2 400	4 000	—	—
25	32	16	1.0	15 200	1 550	9 350	955	8 000	13 000	**FJ-2516**	**MFJ-2516**
	32	16	2.5	20 200	2 060	16 200	1 650	2 800	4 500	—	—
	32	20	1.0	19 800	2 020	13 100	1 340	8 000	13 000	**FJ-2520**	**MFJ-2520**
	32	20	2.5	25 900	2 640	22 200	2 260	2 800	4 500	—	—
	32	26	1.0	26 200	2 670	18 800	1 920	8 000	13 000	**FJ-2526**	**MFJ-2526**
	32	26	2.5	34 000	3 450	31 500	3 200	2 800	4 500	—	—
28	35	16	1.0	15 600	1 590	9 950	1 020	7 100	11 000	**FJ-2816**	**MFJ-2816**
	35	16	2.5	21 300	2 170	17 900	1 820	2 400	4 000	—	—
	35	20	1.0	20 500	2 090	14 200	1 450	7 100	11 000	**FJ-2820**	**MFJ-2820**
	35	20	2.5	27 300	2 780	24 600	2 510	2 400	4 000	—	—
	35	26	1.0	26 900	2 750	20 200	2 060	7 100	11 000	**FJ-2826**	**MFJ-2826**
	35	26	2.5	35 500	3 650	34 500	3 550	2 400	4 000	—	—

Numbers		In case of inner ring is used					Mass Without Inner Ring (g)	
Full Complement Type		Bearing Numbers of Inner Ring	Boundary Dimensions (mm)		Abutment and Fillet Dimensions (mm)		approx.	
Open	Closed		d	B	$d_{a(min.)}$	$r_{a(max.)}$	Open	Closed
—	—	—	—	—	—	—	10	11
F-1712	**MF-1712**	—	—	—	—	—	14	15
—	—	—	—	—	—	—	14	16
F-1716	**MF-1716**	—	—	—	—	—	18	20
—	—	**FIR-151812**	15	12.5	17	0.3	12	14
F-1812	**MF-1812**	**FIR-151812**	15	12.5	17	0.3	14	16
—	—	**FIR-151816**	15	16.5	17	0.3	16	18
F-1816	**MF-1816**	**FIR-151816**	15	16.5	17	0.3	19	22
—	—	**FIR-172012**	17	12.5	19	0.3	13	15
F-2012	**MF-2012**	**FIR-172012**	17	12.5	19	0.3	17	19
—	—	**FIR-172016**	17	16.5	19	0.3	17	19
F-2016	**MF-2016**	**FIR-172016**	17	16.5	19	0.3	22	25
—	—	**FIR-172020**	17	20.5	19	0.3	22	24
F-2020	**MF-2020**	**FIR-172020**	17	20.5	19	0.3	28	30
—	—	**FIR-172212**	17	12.5	19	0.3	14	17
F-2212	**MF-2212**	**FIR-172212**	17	12.5	19	0.3	18	21
—	—	**FIR-172216**	17	16.5	19	0.3	19	22
F-2216	**MF-2216**	**FIR-172216**	17	16.5	19	0.3	24	27
—	—	**FIR-172220**	17	20.5	19	0.3	23	26
F-2220	**MF-2220**	**FIR-172220**	17	20.5	19	0.3	30	33
—	—	**FIR-202516**	20	16.5	22	0.3	24	27
F-2516	**MF-2516**	**FIR-202516**	20	16.5	22	0.3	31	35
—	—	**FIR-202520**	20	20.5	22	0.3	31	34
F-2520	**MF-2520**	**FIR-202520**	20	20.5	22	0.3	40	43
—	—	**FIR-202526**	20	26.5	22	0.3	40	43
F-2526	**MF-2526**	**FIR-202526**	20	26.5	22	0.3	52	55
—	—	**FIR-222816**	22	16.5	24	0.3	27	31
F-2816	**MF-2816**	**FIR-222816**	22	16.5	24	0.3	35	40
—	—	**FIR-222820**	22	20.5	24	0.3	34	38
F-2820	**MF-2820**	**FIR-222820**	22	20.5	24	0.3	44	48
—	—	**FIR-222826**	22	26.5	24	0.3	45	49
F-2826	**MF-2826**	**FIR-222826**	22	26.5	24	0.3	57	62

FJ • MFJ (With Cage)
F • MF (Full Complement Type)
Inscribed Circle Diameter 30 – 55 mm

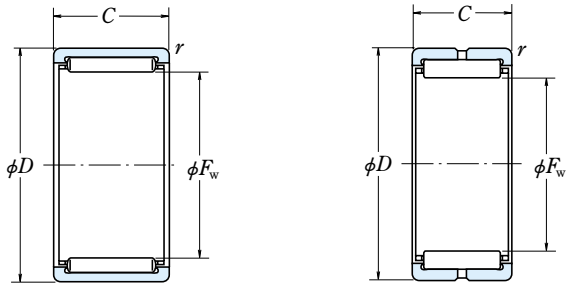




Boundary Dimensions (mm)				Basic Dynamic Load Ratings (N)		Limiting Loads (N)		Limiting Speeds (min⁻¹)		Bearing Numbers	
F_W	D	$C^{0}_{-0.25}$	C_1, C_2 max.	C_r	{kgf}	P_{max}	{kgf}	Grease	Oil	With Cage Open	With Cage Closed
30	37	16	1.0	15 600	1 590	10 100	1 030	6 700	10 000	**FJ-3016L**	**MFJ-3016**
	37	16	2.5	22 100	2 250	18 900	1 930	2 400	3 800	—	—
	37	20	1.0	19 400	1 970	13 300	1 360	6 700	10 000	**FJ-3020**	**MFJ-3020**
	37	20	2.5	28 400	2 900	26 200	2 670	2 400	3 800	—	—
	37	26	1.0	26 000	2 660	19 500	1 990	6 700	10 000	**FJ-3026**	**MFJ-3026**
	37	26	2.5	37 000	3 800	37 000	3 750	2 400	3 800	—	—
35	42	16	1.0	18 100	1 850	12 800	1 300	5 600	9 000	**FJ-3516**	**MFJ-3516**
	42	16	2.5	24 000	2 450	22 000	2 240	2 000	3 400	—	—
	42	20	1.0	23 600	2 410	17 900	1 830	5 600	9 000	**FJ-3520**	**MFJ-3520**
	42	20	2.5	31 000	3 150	30 000	3 100	2 000	3 400	—	—
	42	26	1.0	31 500	3 200	25 800	2 630	5 600	9 000	**FJ-3526**	**MFJ-3526**
	42	26	2.5	40 000	4 100	42 500	4 350	2 000	3 400	—	—
40	47	16	1.0	18 600	1 890	13 600	1 390	4 800	7 500	**FJ-4016**	**MFJ-4016**
	47	16	2.5	25 700	2 620	24 900	2 540	1 800	3 000	—	—
	47	20	1.0	23 500	2 400	18 500	1 890	4 800	7 500	**FJ-4020**	**MFJ-4020**
	47	20	2.5	32 500	3 350	34 000	3 450	1 800	3 000	—	—
	47	26	1.0	31 500	3 200	26 900	2 740	4 800	7 500	**FJ-4026**	**MFJ-4026**
45	52	16	1.0	19 900	2 030	15 400	1 570	4 300	6 700	**FJ-4516**	**MFJ-4516**
	52	16	2.5	27 300	2 790	27 800	2 840	1 600	2 600	—	—
	52	20	1.0	25 500	2 600	21 200	2 160	4 300	6 700	**FJ-4520**	**MFJ-4520**
	52	20	2.5	35 000	3 550	38 500	3 900	1 600	2 600	—	—
50	58	20	1.1	28 900	2 940	23 100	2 350	3 800	6 300	**FJ-5020L**	**MFJ-5020**
	58	20	2.8	39 500	4 050	41 500	4 250	1 700	2 800	—	—
	58	24	1.1	36 000	3 700	30 500	3 150	3 800	6 300	**FJ-5024**	**MFJ-5024**
	58	24	2.8	48 000	4 900	53 000	5 400	1 700	2 800	—	—
55	63	20	1.1	30 000	3 100	25 100	2 560	3 400	5 600	**FJ-5520**	**MFJ-5520**
	63	20	2.8	41 500	4 250	45 500	4 650	1 600	2 400	—	—
	63	24	1.1	37 500	3 850	33 500	3 400	3 400	5 600	**FJ-5524**	**MFJ-5524**
	63	24	2.8	50 500	5 150	58 000	5 950	1 600	2 400	—	—

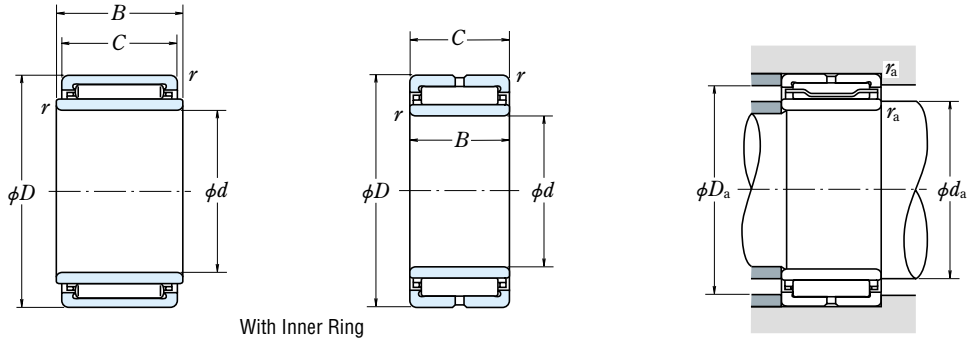
Numbers		In case of inner ring is used					Mass Without Inner Ring (g)	
Full Complement Type		Bearing Numbers of Inner Ring	Boundary Dimensions (mm)		Abutment and Fillet Dimensions (mm)			
Open	Closed		d	B	$d_{a(min.)}$	$r_{a(max.)}$	approx. Open	approx. Closed
—	—	—	—	—	—	—	26	31
F-3016	**MF-3016**	—	—	—	—	—	35	40
—	—	**FIR-253020**	25	20.5	27	0.3	35	39
F-3020	**MF-3020**	**FIR-253020**	25	20.5	27	0.3	46	51
—	—	**FIR-253026**	25	26.5	27	0.3	46	50
F-3026	**MF-3026**	**FIR-253026**	25	26.5	27	0.3	61	66
—	—	—	—	—	—	—	32	38
F-3516	**MF-3516**	—	—	—	—	—	53	60
—	—	**FIR-303520**	30	20.5	34	0.6	41	45
F-3520	**MF-3520**	**FIR-303520**	30	20.5	34	0.6	42	49
—	—	**FIR-303526**	30	26.5	34	0.6	54	58
F-3526	**MF-3526**	**FIR-303526**	30	26.5	34	0.6	70	76
—	—	—	—	—	—	—	34	43
F-4016	**MF-4016**	—	—	—	—	—	48	56
—	—	**FIR-354020**	35	20.5	39	0.6	46	51
F-4020	**MF-4020**	**FIR-354020**	35	20.5	39	0.6	60	69
—	—	**FIR-354026**	35	26.5	39	0.6	60	65
—	—	—	—	—	—	—	39	50
F-4516	**MF-4516**	—	—	—	—	—	53	64
—	—	**FIR-404520**	40	20.5	44	0.6	53	59
F-4520	**MF-4520**	**FIR-404520**	40	20.5	44	0.6	67	78
—	—	**FIR-455020**	45	20.5	49	0.6	56	71
F-5020	**MF-5020**	—	—	—	—	—	81	95
—	—	—	—	—	—	—	69	84
F-5024	**MF-5024**	—	—	—	—	—	98	110
—	—	—	—	—	—	—	60	79
F-5520	**MF-5520**	—	—	—	—	—	88	105
—	—	—	—	—	—	—	72	90
F-5524	**MF-5524**	—	—	—	—	—	105	125

RLM • LM
RNA • NA
Inscribed Circle Diameter 9 – 22 mm



Without Inner Ring

RLM RNA



With Inner Ring

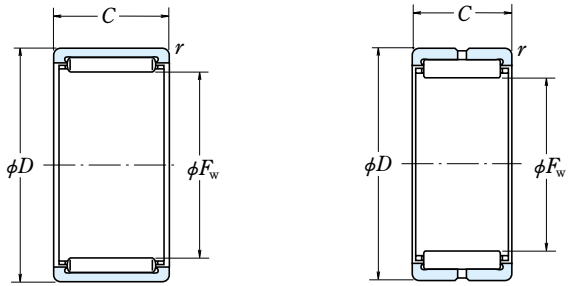
LM NA

Boundary Dimensions (mm)				Basic Load Ratings (N)		Basic Load Ratings {kgf}		Limiting Speeds (min⁻¹)		Bearing Without Inner Ring
F_W	D	C	r min.	C_r	C_{0r}	C_r	C_{0r}	Grease	Oil	
9	16	12	0.3	6 150	5 400	625	550	24 000	40 000	**RLM 912**
	16	16	0.3	7 900	7 450	805	760	24 000	40 000	**RLM 916**
10	17	10	0.3	5 350	4 650	545	470	22 000	36 000	**RLM 101710**
	17	15	0.3	8 050	7 800	820	795	22 000	36 000	**RLM 101715**
12	17	12	0.3	6 150	7 650	625	780	18 000	30 000	**RLM 1212**
	19	12	0.3	7 300	7 150	745	730	18 000	30 000	**RLM 121912**
14	22	13	0.3	9 150	9 950	930	1 010	20 000	32 000	—
	22	16	0.3	12 100	12 700	1 230	1 300	15 000	24 000	**RLM 1416**
	22	20	0.3	15 500	17 500	1 580	1 790	15 000	24 000	**RLM 1420**
15	20	15	0.3	8 100	11 700	825	1 190	14 000	24 000	**RLM 1515**
	20	20	0.3	11 100	17 400	1 130	1 770	14 000	24 000	**RLM 1520**
	22	15	0.3	9 900	11 100	1 010	1 140	14 000	24 000	**RLM 152215**
16	24	13	0.3	10 100	11 700	1 030	1 190	17 000	28 000	—
	24	16	0.3	12 900	14 200	1 310	1 450	13 000	22 000	**RLM 1616**
	24	20	0.3	16 500	19 500	1 680	1 990	13 000	22 000	**RLM 1620**
	24	22	0.3	17 900	24 500	1 830	2 500	17 000	28 000	—
17	22	10	0.3	5 850	7 950	595	810	13 000	20 000	**RLM 1710**
	24	25	0.5	18 200	25 300	1 850	2 580	13 000	20 000	**RLM 172425**
18	25	15	0.5	11 500	14 300	1 170	1 450	12 000	20 000	**RLM 1815**
	25	20	0.5	15 800	21 500	1 610	2 190	12 000	20 000	**RLM 1820**
20	27	10	0.5	7 950	9 150	810	930	11 000	18 000	**RLM 2010**
	27	15	0.5	11 900	15 400	1 220	1 570	11 000	18 000	**RLM 2015**
	27	20	0.5	16 400	23 200	1 670	2 370	11 000	18 000	**RLM 2020**
	27	25	0.5	19 800	29 500	2 010	3 000	11 000	18 000	**RLM 2025**
	28	13	0.3	10 800	13 600	1 100	1 390	13 000	22 000	—
	28	18	0.3	15 700	21 900	1 600	2 240	13 000	22 000	—
	28	23	0.3	19 300	28 600	1 960	2 920	13 000	22 000	—
22	29	20	0.5	17 700	26 400	1 810	2 690	10 000	16 000	**RLM 2220**
	29	25	0.5	21 300	33 500	2 170	3 400	10 000	16 000	**RLM 2225**
	30	13	0.3	11 600	15 400	1 190	1 570	12 000	20 000	—
	30	18	0.3	16 800	24 800	1 720	2 530	12 000	20 000	—
	30	20	0.5	20 000	27 200	2 030	2 780	10 000	16 000	**RLM 223020**
	30	23	0.3	20 700	32 500	2 110	3 300	12 000	20 000	—

Numbers		Boundary Dimensions (mm)		Abutment and Fillet Dimensions (mm)			Mass (kg)	
Without Inner Ring	With Inner Ring	d	B	d_a min.	D_a max.	r_a max.	approx. Without Inner Ring	With Inner Ring
—	**LM 91612-1**	6	12	8	14	0.3	0.009	0.013
—	—	—	—	—	14	0.3	0.011	—
—	—	—	—	—	15	0.3	0.008	—
—	—	—	—	—	15	0.3	0.012	—
—	**LM 1212**	8	12.2	10	15	0.3	0.007	0.013
—	**LM 121912**	8	12.2	10	17	0.3	0.011	0.017
RNA 4900	**NA 4900**	10	13	12	20	0.3	0.016	0.024
—	**LM 1416**	10	16.2	12	20	0.3	0.019	0.028
—	**LM 1420**	10	20.2	12	20	0.3	0.024	0.036
—	**LM 1515**	10	15.2	12	18	0.3	0.011	0.022
—	**LM 1520**	10	20.2	12	18	0.3	0.015	0.03
—	**LM 152215**	10	15.2	12	20	0.3	0.016	0.027
RNA 4901	**NA 4901**	12	13	14	22	0.3	0.018	0.027
—	**LM 1616**	12	16.2	14	22	0.3	0.021	0.032
—	**LM 1620**	12	20.2	14	22	0.3	0.027	0.041
RNA 6901	**NA 6901**	12	22	14	22	0.3	0.03	0.045
—	**LM 1710**	12	10.2	14	20	0.3	0.008	0.017
—	**LM 172425**	12	25.2	16	20	0.5	0.03	0.052
—	**LM 1815**	15	15.2	19	21	0.5	0.019	0.028
—	**LM 1820**	15	20.2	19	21	0.5	0.025	0.037
—	**LM 2010**	15	10.2	19	23	0.5	0.014	0.025
—	**LM 2015**	15	15.2	19	23	0.5	0.021	0.037
—	**LM 2020**	15	20.2	19	23	0.5	0.028	0.049
—	**LM 2025**	15	25.2	19	23	0.5	0.035	0.061
RNA 4902	**NA 4902**	15	13	17	26	0.3	0.021	0.035
RNA 5902	**NA 5902**	15	18	17	26	0.3	0.032	0.051
RNA 6902	**NA 6902**	15	23	17	26	0.3	0.039	0.064
—	**LM 2220**	17	20.2	21	25	0.5	0.03	0.054
—	**LM 2225**	17	25.2	21	25	0.5	0.038	0.068
RNA 4903	**NA 4903**	17	13	19	28	0.3	0.023	0.038
RNA 5903	**NA 5903**	17	18	19	28	0.3	0.034	0.055
—	**LM 223020**	17	20.2	21	26	0.5	0.035	0.06
RNA 6903	**NA 6903**	17	23	19	28	0.3	0.041	0.068

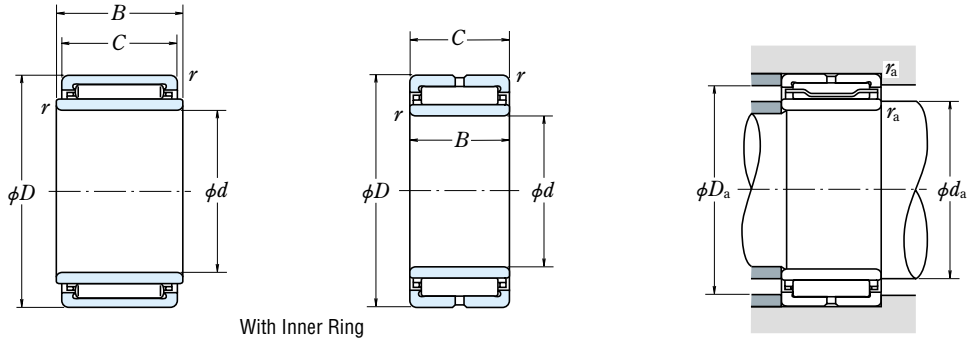
Remarks If a full complement roller bearing is required, please contact NSK.

RLM • LM
RNA • NA
Inscribed Circle Diameter 25 – 35 mm



Without Inner Ring

RLM RNA



With Inner Ring

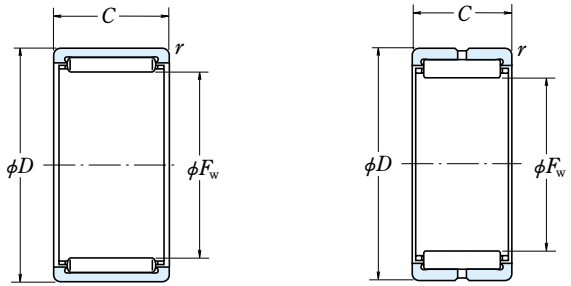
LM NA

Boundary Dimensions (mm)				Basic Load Ratings (N)		Basic Load Ratings {kgf}		Limiting Speeds (min⁻¹)		Bearing Numbers
F_W	D	C	r min.	C_r	C_{0r}	C_r	C_{0r}	Grease	Oil	Without Inner Ring
25	32	12	0.5	10 300	13 700	1 050	1 400	8 500	14 000	**RLM 2512**
	32	20	0.5	18 800	29 700	1 920	3 050	8 500	14 000	**RLM 2520**
	32	25	0.5	22 700	37 500	2 310	3 850	8 500	14 000	**RLM 2525**
	37	17	0.3	19 700	22 900	2 010	2 340	11 000	18 000	—
	37	23	0.3	27 800	35 500	2 830	3 650	11 000	18 000	—
	37	30	0.3	36 500	50 500	3 700	5 150	11 000	18 000	—
28	35	20	0.5	19 900	33 000	2 030	3 350	7 500	12 000	**RLM 2820**
	35	25	0.5	23 900	42 000	2 440	4 250	7 500	12 000	**RLM 2825**
	37	30	0.5	34 000	52 500	3 450	5 350	7 500	12 000	**RLM 283730**
	39	17	0.3	22 400	30 500	2 290	3 150	9 500	15 000	—
	39	23	0.3	28 300	41 500	2 890	4 200	9 500	15 000	—
	39	30	0.3	37 000	58 500	3 800	6 000	9 500	15 000	—
30	37	25	0.5	24 500	44 000	2 490	4 500	7 100	12 000	**RLM 3025**
	40	20	0.5	25 000	36 000	2 550	3 650	7 100	12 000	**RLM 304020**
	40	30	0.5	35 000	56 000	3 600	5 700	7 100	12 000	**RLM 304030**
	42	17	0.3	21 400	26 800	2 180	2 740	9 000	14 000	—
	42	23	0.3	30 000	41 500	3 100	4 250	9 000	14 000	—
	42	30	0.3	39 500	59 000	4 050	6 050	9 000	14 000	—
32	42	20	0.5	25 800	38 000	2 630	3 900	6 700	11 000	**RLM 3220**
	42	30	0.5	36 500	59 000	3 700	6 050	6 700	11 000	**RLM 3230**
	45	17	0.3	22 200	28 700	2 270	2 930	8 500	13 000	—
	45	23	0.3	31 500	44 500	3 200	4 550	8 500	13 000	—
	45	30	0.3	41 000	63 500	4 200	6 450	8 500	13 000	—
35	42	20	0.5	22 300	41 000	2 270	4 200	6 300	10 000	**RLM 3520**
	42	30	0.5	31 000	63 500	3 200	6 450	6 300	10 000	**RLM 3530**
	45	20	0.5	27 500	42 500	2 800	4 350	6 300	10 000	**RLM 354520**
	45	25	0.5	33 000	54 500	3 400	5 550	6 300	10 000	**RLM 354525**
	45	30	0.5	38 500	66 000	3 950	6 750	6 300	10 000	**RLM 354530**
	47	17	0.3	23 900	32 500	2 430	3 300	7 500	12 000	—
	47	23	0.3	33 500	50 500	3 450	5 150	7 500	12 000	—
	47	30	0.3	44 000	71 500	4 500	7 300	7 500	12 000	—

Numbers		Boundary Dimensions (mm)		Abutment and Fillet Dimensions (mm)			Mass (kg)	
Without Inner Ring	With Inner Ring	d	B	d_a min.	D_a max.	r_a max.	approx. Without Inner Ring	With Inner Ring
—	**LM 2512**	20	12.2	24	28	0.5	0.02	0.036
—	**LM 2520**	20	20.2	24	28	0.5	0.034	0.061
—	**LM 2525**	20	25.2	24	28	0.5	0.042	0.076
RNA 4904	**NA 4904**	20	17	22	35	0.3	0.055	0.077
RNA 5904	**NA 5904**	20	23	22	35	0.3	0.089	0.12
RNA 6904	**NA 6904**	20	30	22	35	0.3	0.098	0.14
—	**LM 2820**	22	20.2	26	31	0.5	0.038	0.062
—	**LM 2825**	22	25.2	26	31	0.5	0.047	0.092
—	**LM 283730**	22	30.2	26	33	0.5	0.075	0.13
RNA 49/22	**NA 49/22**	22	17	24	37	0.3	0.056	0.086
RNA 59/22	**NA 59/22**	22	23	24	37	0.3	0.091	0.135
RNA 69/22	**NA 69/22**	22	30	24	37	0.3	0.096	0.15
—	**LM 3025**	25	25.2	29	33	0.5	0.05	0.092
—	**LM 304020**	25	20.2	29	36	0.5	0.06	0.093
—	**LM 304030**	25	30.2	29	36	0.5	0.09	0.14
RNA 4905	**NA 4905**	25	17	27	40	0.3	0.063	0.091
RNA 5905	**NA 5905**	25	23	27	40	0.3	0.10	0.14
RNA 6905	**NA 6905**	25	30	27	40	0.3	0.11	0.16
—	**LM 3220**	28	20.2	32	38	0.5	0.064	0.09
—	**LM 3230**	28	30.2	32	38	0.5	0.096	0.14
RNA 49/28	**NA 49/28**	28	17	30	43	0.3	0.076	0.099
RNA 59/28	**NA 59/28**	28	23	30	43	0.3	0.11	0.145
RNA 69/28	**NA 69/28**	28	30	30	43	0.3	0.13	0.175
—	**LM 3520**	30	20.2	34	38	0.5	0.046	0.085
—	**LM 3530**	30	30.2	34	38	0.5	0.07	0.13
—	**LM 354520**	30	20.2	34	41	0.5	0.069	0.11
—	**LM 354525**	30	25.2	34	41	0.5	0.086	0.135
—	**LM 354530**	30	30.2	34	41	0.5	0.10	0.16
RNA 4906	**NA 4906**	30	17	32	45	0.3	0.072	0.105
RNA 5906	**NA 5906**	30	23	32	45	0.3	0.11	0.15
RNA 6906	**NA 6906**	30	30	32	45	0.3	0.13	0.19

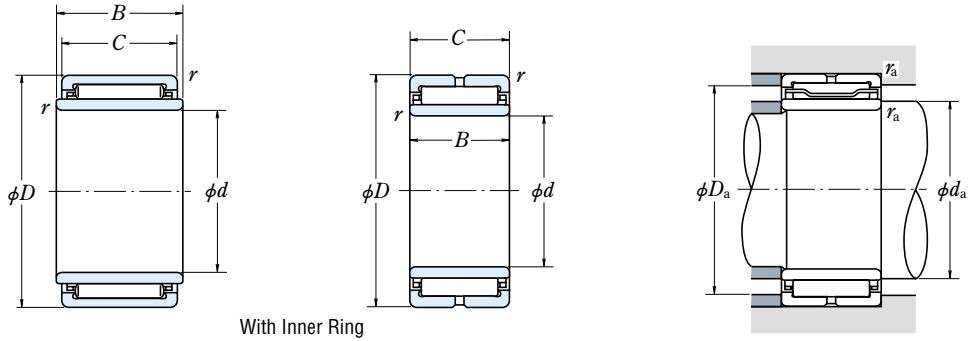
Remarks If a full complement roller bearing is required, please contact NSK.

RLM • LM
RNA • NA
Inscribed Circle Diameter 37 – 58 mm



Without Inner Ring

RLM RNA



With Inner Ring

LM NA

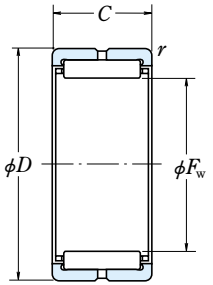
Boundary Dimensions (mm)				Basic Load Ratings (N)		Basic Load Ratings {kgf}		Limiting Speeds (min⁻¹)		Bearing Without Inner Ring
F_W	D	C	r min.	C_r	C_{0r}	C_r	C_{0r}	Grease	Oil	
37	47	20	0.6	28 200	45 000	2 880	4 550	6 000	9 500	**RLM 3720**
	47	30	0.6	39 500	69 500	4 050	7 100	6 000	9 500	**RLM 3730**
38	48	20	0.6	29 000	47 000	2 960	4 800	5 600	9 000	**RLM 3820**
	48	30	0.6	41 000	73 000	4 150	7 450	5 600	9 000	**RLM 3830**
40	50	20	0.6	29 700	49 000	3 050	5 000	5 300	9 000	**RLM 4020**
	50	30	0.6	42 000	76 500	4 250	7 800	5 300	9 000	**RLM 4030**
	52	20	0.6	29 900	45 000	3 050	4 600	6 700	10 000	—
	52	27	0.6	40 500	66 000	4 100	6 750	6 700	10 000	—
	52	36	0.6	56 000	101 000	5 700	10 300	6 700	10 000	—
42	55	20	0.6	30 500	47 500	3 100	4 800	6 300	10 000	—
	55	27	0.6	41 500	69 500	4 200	7 100	6 300	10 000	—
	55	36	0.6	57 500	106 000	5 850	10 900	6 300	10 000	—
45	55	20	0.6	31 000	53 500	3 150	5 500	4 800	8 000	**RLM 4520**
	55	30	0.6	43 500	83 500	4 450	8 500	4 800	8 000	**RLM 4530**
48	62	22	0.6	39 000	61 500	3 950	6 300	5 600	9 000	—
	62	30	0.6	54 500	95 000	5 550	9 700	5 600	9 000	—
	62	40	0.6	72 000	137 000	7 350	13 900	5 600	9 000	—
50	62	20	0.6	35 500	60 500	3 600	6 150	4 300	7 100	**RLM 506220**
	62	25	0.6	43 000	77 500	4 400	7 900	4 300	7 100	**RLM 506225**
52	68	22	0.6	41 000	67 500	4 150	6 900	5 000	8 000	—
	68	30	0.6	57 000	104 000	5 800	10 600	5 000	8 000	—
	68	40	0.6	76 000	149 000	7 750	15 200	5 000	8 000	—
55	65	30	0.6	49 000	104 000	5 000	10 600	4 000	6 300	**RLM 5530**
	67	20	0.6	38 000	68 000	3 850	6 900	4 000	6 300	**RLM 556720**
58	72	22	0.6	42 500	73 500	4 350	7 500	4 500	7 100	—
	72	30	0.6	59 500	113 000	6 050	11 500	4 500	7 100	—
	72	40	0.6	79 000	163 000	8 050	16 600	4 500	7 100	—

Numbers		Boundary Dimensions (mm)		Abutment and Fillet Dimensions (mm)			Mass (kg)	
Without Inner Ring	With Inner Ring	d	B	d_a min.	D_a max.	r_a max.	approx. Without Inner Ring	With Inner Ring
—	**LM 3720**	32	20.3	36	43	0.6	0.072	0.115
—	**LM 3730**	32	30.3	36	43	0.6	0.11	0.17
—	**LM 3820**	32	20.3	36	44	0.6	0.074	0.125
—	**LM 3830**	32	30.3	36	44	0.6	0.11	0.195
—	**LM 4020**	35	20.3	39	46	0.6	0.078	0.125
—	**LM 4030**	35	30.3	39	46	0.6	0.12	0.19
RNA 49/32	**NA 49/32**	32	20	36	48	0.6	0.092	0.16
RNA 59/32	**NA 59/32**	32	27	36	48	0.6	0.15	0.24
RNA 69/32	**NA 69/32**	32	36	36	48	0.6	0.17	0.29
RNA 4907	**NA 4907**	35	20	39	51	0.6	0.11	0.17
RNA 5907	**NA 5907**	35	27	39	51	0.6	0.175	0.25
RNA 6907	**NA 6907**	35	36	39	51	0.6	0.20	0.315
—	**LM 4520**	40	20.3	44	51	0.6	0.086	0.14
—	**LM 4530**	40	30.3	44	51	0.6	0.13	0.21
RNA 4908	**NA 4908**	40	22	44	58	0.6	0.15	0.24
RNA 5908	**NA 5908**	40	30	44	58	0.6	0.23	0.355
RNA 6908	**NA 6908**	40	40	44	58	0.6	0.265	0.435
—	**LM 506220**	42	20.3	46	58	0.6	0.12	0.21
—	**LM 506225**	42	25.3	46	58	0.6	0.155	0.265
RNA 4909	**NA 4909**	45	22	49	64	0.6	0.19	0.28
RNA 5909	**NA 5909**	45	30	49	64	0.6	0.27	0.39
RNA 6909	**NA 6909**	45	40	49	64	0.6	0.335	0.495
—	**LM 5530**	45	30.3	49	61	0.6	0.16	0.34
—	**LM 556720**	45	20.3	49	63	0.6	0.13	0.25
RNA 4910	**NA 4910**	50	22	54	68	0.6	0.18	0.295
RNA 5910	**NA 5910**	50	30	54	68	0.6	0.25	0.405
RNA 6910	**NA 6910**	50	40	54	68	0.6	0.32	0.53

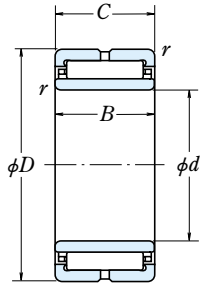
Remarks If a full complement roller bearing is required, please contact NSK.

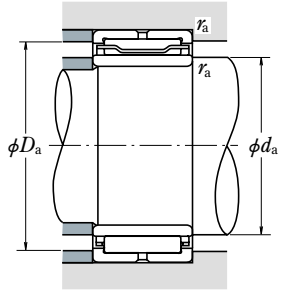
RNA • NA

Inscribed Circle Diameter 63 – 120 mm



Without Inner Ring
RNA





With Inner Ring
NA

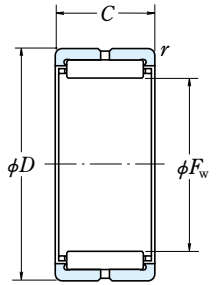
Boundary Dimensions (mm)				Basic Load Ratings (N)		{kgf}		Limiting Speeds (min⁻¹)		Bearing Numbers
F_W	D	C	r min.	C_r	C_{0r}	C_r	C_{0r}	Grease	Oil	Without Inner Ring
63	80	25	1	53 500	87 500	5 450	8 950	4 000	6 700	**RNA 4911**
	80	34	1	73 500	133 000	7 500	13 600	4 000	6 700	**RNA 5911**
	80	45	1	93 500	181 000	9 550	18 500	4 000	6 700	**RNA 6911**
68	85	25	1	56 000	95 500	5 700	9 750	3 800	6 300	**RNA 4912**
	85	34	1	77 500	145 000	7 900	14 800	3 800	6 300	**RNA 5912**
	85	45	1	98 000	197 000	10 000	20 100	3 800	6 300	**RNA 6912**
72	90	25	1	58 500	103 000	5 950	10 500	3 600	5 600	**RNA 4913**
	90	34	1	81 000	157 000	8 250	16 000	3 600	5 600	**RNA 5913**
	90	45	1	103 000	213 000	10 500	21 800	3 600	5 600	**RNA 6913**
80	100	30	1	80 500	143 000	8 200	14 600	3 200	5 300	**RNA 4914**
	100	40	1	107 000	206 000	10 900	21 000	3 200	5 300	**RNA 5914**
	100	54	1	143 000	298 000	14 500	30 500	3 200	5 300	**RNA 6914**
85	105	30	1	84 000	155 000	8 600	15 800	3 000	5 000	**RNA 4915**
	105	40	1	112 000	222 000	11 400	22 700	3 000	5 000	**RNA 5915**
	105	54	1	149 000	325 000	15 200	33 000	3 000	5 000	**RNA 6915**
90	110	30	1	87 500	166 000	8 950	17 000	2 800	4 500	**RNA 4916**
	110	40	1	116 000	239 000	11 900	24 400	2 800	4 500	**RNA 5916**
	110	54	1	157 000	350 000	16 000	36 000	2 800	4 500	**RNA 6916**
100	120	35	1.1	104 000	214 000	10 600	21 800	2 600	4 000	**RNA 4917**
	120	46	1.1	138 000	310 000	14 100	31 500	2 600	4 000	**RNA 5917**
	120	63	1.1	174 000	415 000	17 800	42 500	2 600	4 000	**RNA 6917**
105	125	35	1.1	108 000	228 000	11 000	23 300	2 400	4 000	**RNA 4918**
	125	46	1.1	143 000	330 000	14 600	33 500	2 400	4 000	**RNA 5918**
	125	63	1.1	181 000	445 000	18 400	45 000	2 400	4 000	**RNA 6918**
110	130	35	1.1	111 000	242 000	11 400	24 700	2 200	3 800	**RNA 4919**
	130	46	1.1	148 000	350 000	15 100	35 500	2 200	3 800	**RNA 5919**
	130	63	1.1	187 000	470 000	19 100	48 000	2 200	3 800	**RNA 6919**
115	140	40	1.1	144 000	295 000	14 700	30 000	2 200	3 600	**RNA 4920**
	140	54	1.1	193 000	430 000	19 700	43 500	2 200	3 600	**RNA 5920**
120	140	30	1	99 500	214 000	10 100	21 900	2 000	3 400	**RNA 4822**

Numbers	Boundary Dimensions (mm)		Abutment and Fillet Dimensions (mm)			Mass (kg)	
With Inner Ring	d	B	d_a min.	D_a max.	r_a max.	approx. Without Inner Ring	With Inner Ring
NA 4911	55	25	60	75	1	0.26	0.40
NA 5911	55	34	60	75	1	0.37	0.56
NA 6911	55	45	60	75	1	0.475	0.73
NA 4912	60	25	65	80	1	0.28	0.435
NA 5912	60	34	65	80	1	0.415	0.625
NA 6912	60	45	65	80	1	0.485	0.76
NA 4913	65	25	70	85	1	0.32	0.465
NA 5913	65	34	70	85	1	0.48	0.675
NA 6913	65	45	70	85	1	0.53	0.79
NA 4914	70	30	75	95	1	0.47	0.74
NA 5914	70	40	75	95	1	0.69	1.05
NA 6914	70	54	75	95	1	0.89	1.4
NA 4915	75	30	80	100	1	0.5	0.79
NA 5915	75	40	80	100	1	0.735	1.1
NA 6915	75	54	80	100	1	0.96	1.5
NA 4916	80	30	85	105	1	0.53	0.835
NA 5916	80	40	85	105	1	0.75	1.15
NA 6916	80	54	85	105	1	0.99	1.55
NA 4917	85	35	91.5	113.5	1	0.68	1.25
NA 5917	85	46	91.5	113.5	1	0.99	1.75
NA 6917	85	63	91.5	113.5	1	1.2	2.25
NA 4918	90	35	96.5	118.5	1	0.72	1.35
NA 5918	90	46	96.5	118.5	1	1.05	1.85
NA 6918	90	63	96.5	118.5	1	1.35	2.45
NA 4919	95	35	101.5	123.5	1	0.74	1.4
NA 5919	95	46	101.5	123.5	1	1.15	2.0
NA 6919	95	63	101.5	123.5	1	1.5	2.65
NA 4920	100	40	106.5	133.5	1	1.15	1.95
NA 5920	100	54	106.5	133.5	1	1.8	2.85
NA 4822	110	30	115	135	1	0.67	1.1

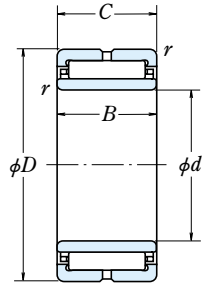
Remarks If a full complement roller bearing is required, please contact NSK.

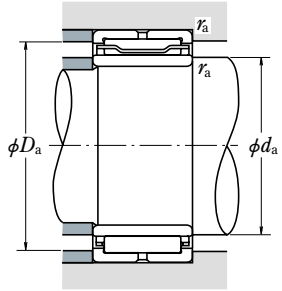
RNA • NA

Inscribed Circle Diameter 125 – 390 mm



Without Inner Ring
RNA





With Inner Ring
NA

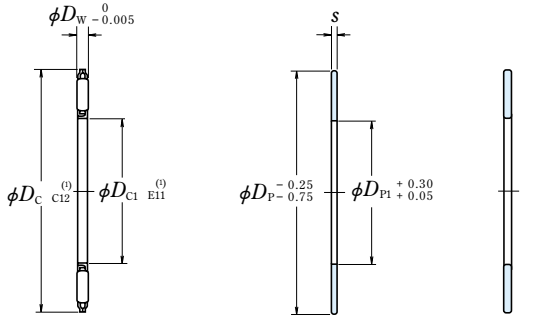
Boundary Dimensions (mm)				Basic Load Ratings (N)		{kgf}		Limiting Speeds (min⁻¹)		Bearing Without Inner Ring
F_W	D	C	r min.	C_r	C_{0r}	C_r	C_{0r}	Grease	Oil	
125	150	40	1.1	149 000	315 000	15 200	32 500	2 000	3 200	**RNA 4922**
	150	54	1.1	200 000	460 000	20 300	47 000	2 000	3 200	**RNA 5922**
130	150	30	1	105 000	238 000	10 700	24 300	1 900	3 200	**RNA 4824**
135	165	45	1.1	192 000	395 000	19 600	40 500	1 900	3 000	**RNA 4924**
	165	60	1.1	253 000	565 000	25 800	58 000	1 900	3 000	**RNA 5924**
145	165	35	1.1	127 000	315 000	12 900	32 000	1 700	2 800	**RNA 4826**
150	180	50	1.5	228 000	515 000	23 200	52 500	1 700	2 800	**RNA 4926**
	180	67	1.5	299 000	725 000	30 500	74 000	1 700	2 800	**RNA 5926**
155	175	35	1.1	133 000	340 000	13 600	35 000	1 600	2 600	**RNA 4828**
160	190	50	1.5	235 000	545 000	24 000	55 500	1 600	2 600	**RNA 4928**
	190	67	1.5	310 000	775 000	31 500	79 000	1 600	2 600	**RNA 5928**
165	190	40	1.1	180 000	440 000	18 300	45 000	1 500	2 400	**RNA 4830**
175	200	40	1.1	184 000	465 000	18 700	47 000	1 400	2 200	**RNA 4832**
185	215	45	1.1	224 000	540 000	22 900	55 000	1 400	2 200	**RNA 4834**
195	225	45	1.1	230 000	570 000	23 500	58 000	1 300	2 000	**RNA 4836**
210	240	50	1.5	268 000	705 000	27 300	72 000	1 200	1 900	**RNA 4838**
220	250	50	1.5	274 000	740 000	27 900	75 500	1 100	1 800	**RNA 4840**
240	270	50	1.5	286 000	805 000	29 100	82 000	1 000	1 700	**RNA 4844**
265	300	60	2	375 000	1 070 000	38 500	109 000	950	1 500	**RNA 4848**
285	320	60	2	395 000	1 160 000	40 000	118 000	900	1 400	**RNA 4852**
305	350	69	2	510 000	1 390 000	52 000	142 000	800	1 300	**RNA 4856**
330	380	80	2.1	660 000	1 810 000	67 500	185 000	750	1 200	**RNA 4860**
350	400	80	2.1	675 000	1 900 000	69 000	194 000	710	1 100	**RNA 4864**
370	420	80	2.1	690 000	1 990 000	70 500	203 000	670	1 100	**RNA 4868**
390	440	80	2.1	705 000	2 080 000	72 000	212 000	630	1 000	**RNA 4872**

Numbers	Boundary Dimensions (mm)		Abutment and Fillet Dimensions (mm)			Mass (kg)	
With Inner Ring	d	B	d_a min.	D_a max.	r_a max.	approx. Without Inner Ring	With Inner Ring
NA 4922	110	40	116.5	143.5	1	1.25	2.1
NA 5922	110	54	116.5	143.5	1	1.95	3.05
NA 4824	120	30	125	145	1	0.71	1.15
NA 4924	120	45	126.5	158.5	1	1.9	2.9
NA 5924	120	60	126.5	158.5	1	2.7	4.05
NA 4826	130	35	136.5	158.5	1	0.92	1.8
NA 4926	130	50	138	172	1.5	2.3	4.0
NA 5926	130	67	138	172	1.5	3.3	5.55
NA 4828	140	35	146.5	168.5	1	0.98	1.9
NA 4928	140	50	148	182	1.5	2.45	4.25
NA 5928	140	67	148	182	1.5	3.55	6.0
NA 4830	150	40	156.5	183.5	1	1.6	2.75
NA 4832	160	40	166.5	193.5	1	1.75	2.95
NA 4834	170	45	176.5	208.5	1	2.55	4.0
NA 4836	180	45	186.5	218.5	1	2.65	4.2
NA 4838	190	50	198	232	1.5	3.2	5.6
NA 4840	200	50	208	242	1.5	3.35	5.9
NA 4844	220	50	228	262	1.5	3.65	6.45
NA 4848	240	60	249	291	2	5.45	10
NA 4852	260	60	269	311	2	5.9	11
NA 4856	280	69	289	341	2	9.5	15.5
NA 4860	300	80	311	369	2	13	22
NA 4864	320	80	331	389	2	13.5	23.5
NA 4868	340	80	351	409	2	14	24.5
NA 4872	360	80	371	429	2	15	26

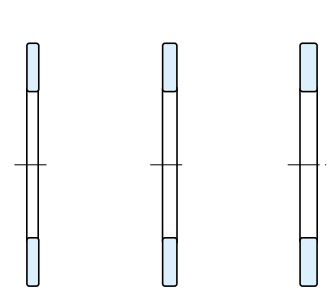
Remarks If a full complement roller bearing is required, please contact NSK.

FNTA (Thrust Cage & Needle Roller Assemblies)

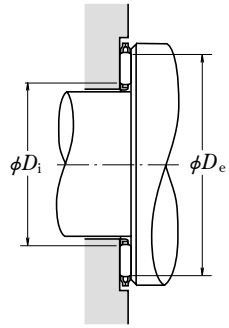
Thrust raceway washers
FTRA (s=1.0)
FTRB (s=1.5)
FTRC (s=2.0)
FTRD (s=2.5)
FTRE (s=3.0)
Bore Diameter 10 – 100 mm



FNTA FTRA FTRB



FTRC FTRD FTRE

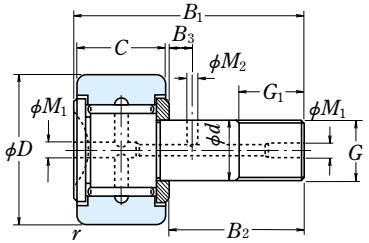


Boundary Dimensions (mm)			Basic Load Ratings (N)		Basic Load Ratings {kgf}		Limiting Speeds (min^{-1})	Bearing Numbers	
D_{c1},D_{p1}	D_c,D_p	D_W	C_a	C_{0a}	C_a	C_{0a}	Oil		s=1.0 $^{\pm 0.05}$
10	24	2	7 750	23 000	790	2 350	17 000	**FNTA-1024**	✻FTRA-1024
12	26	2	8 350	26 300	855	2 680	16 000	**FNTA-1226**	FTRA-1226
15	28	2	7 950	25 800	810	2 630	15 000	**FNTA-1528**	FTRA-1528
16	29	2	8 200	27 100	835	2 770	14 000	**FNTA-1629**	FTRA-1629
17	30	2	8 400	28 400	855	2 900	14 000	**FNTA-1730**	FTRA-1730
18	31	2	8 600	29 700	875	3 050	13 000	**FNTA-1831**	FTRA-1831
20	35	2	11 900	47 000	1 220	4 800	12 000	**FNTA-2035**	FTRA-2035
25	42	2	14 800	66 000	1 510	6 750	9 500	**FNTA-2542**	FTRA-2542
30	47	2	16 500	79 000	1 680	8 100	8 500	**FNTA-3047**	FTRA-3047
35	52	2	17 300	88 000	1 770	8 950	8 000	**FNTA-3552**	FTRA-3552
40	60	3	26 900	122 000	2 740	12 400	6 700	**FNTA-4060**	FTRA-4060
45	65	3	28 700	137 000	2 930	14 000	6 300	**FNTA-4565**	FTRA-4565
50	70	3	30 500	152 000	3 100	15 500	5 600	**FNTA-5070**	FTRA-5070
55	78	3	37 000	201 000	3 750	20 500	5 300	**FNTA-5578**	FTRA-5578
60	85	3	43 000	252 000	4 400	25 700	4 800	**FNTA-6085**	FTRA-6085
65	90	3	45 500	274 000	4 600	28 000	4 500	**FNTA-6590**	FTRA-6590
70	95	4	59 000	320 000	6 000	33 000	4 300	**FNTA-7095**	FTRA-7095
75	100	4	60 000	335 000	6 150	34 500	4 000	**FNTA-75100**	FTRA-75100
80	105	4	63 000	365 000	6 450	37 500	3 800	**FNTA-80105**	FTRA-80105
85	110	4	64 500	380 000	6 550	39 000	3 600	**FNTA-85110**	FTRA-85110
90	120	4	80 000	515 000	8 150	52 500	3 400	**FNTA-90120**	FTRA-90120
100	135	4	98 500	695 000	10 000	71 000	3 000	**FNTA-100135**	FTRA-100135

Bearing Numbers of Matching Bearing Rings				Roller Contact Surfaces (mm)		Mass (g)	
s=1.5 $^{0}_{-0.08}$	s=2.0 $^{0}_{-0.08}$	s=2.5 $^{0}_{-0.08}$	s=3.0 $^{0}_{-0.08}$	Outside Diameter D_e min.	Bore Diameter D_i max.	approx. FNTA	approx. FTRA
FTRB-1024	FTRC-1024	—	—	22.0	11.5	2.3	2.9
FTRB-1226	FTRC-1226	—	—	24.0	13.5	3.4	3.3
FTRB-1528	FTRC-1528	FTRD-1528	FTRE-1528	26.0	16.5	3.5	3.5
FTRB-1629	FTRC-1629	FTRD-1629	FTRE-1629	27.0	17.5	3.7	3.6
FTRB-1730	FTRC-1730	FTRD-1730	FTRE-1730	28.0	18.5	3.8	3.8
FTRB-1831	FTRC-1831	FTRD-1831	FTRE-1831	29.0	19.5	4	3.9
FTRB-2035	FTRC-2035	FTRD-2035	FTRE-2035	33.0	21.5	5.4	5.1
FTRB-2542	FTRC-2542	FTRD-2542	FTRE-2542	40.0	26.5	7.7	7
FTRB-3047	FTRC-3047	FTRD-3047	FTRE-3047	45.0	31.5	8.9	7.9
FTRB-3552	FTRC-3552	FTRD-3552	FTRE-3552	50.5	36.5	9.7	9.1
FTRB-4060	FTRC-4060	FTRD-4060	FTRE-4060	57.0	42.0	18	12
FTRB-4565	FTRC-4565	FTRD-4565	FTRE-4565	62.0	47.0	20	13
FTRB-5070	FTRC-5070	FTRD-5070	FTRE-5070	67.0	51.5	22	15
FTRB-5578	FTRC-5578	FTRD-5578	FTRE-5578	75.0	57.0	29	19
FTRB-6085	FTRC-6085	FTRD-6085	FTRE-6085	82.0	61.5	35	22
FTRB-6590	FTRC-6590	FTRD-6590	FTRE-6590	87.5	66.5	38	24
FTRB-7095	FTRC-7095	FTRD-7095	FTRE-7095	92.5	71.5	52	25
FTRB-75100	FTRC-75100	FTRD-75100	FTRE-75100	97.5	76.5	54	27
FTRB-80105	FTRC-80105	FTRD-80105	FTRE-80105	102.5	81.5	58	28
FTRB-85110	FTRC-85110	FTRD-85110	FTRE-85110	107.5	86.5	63	30
FTRB-90120	FTRC-90120	FTRD-90120	FTRE-90120	117.5	91.5	80	38
FTRB-100135	FTRC-100135	FTRD-100135	FTRE-100135	132.5	101.5	105	50

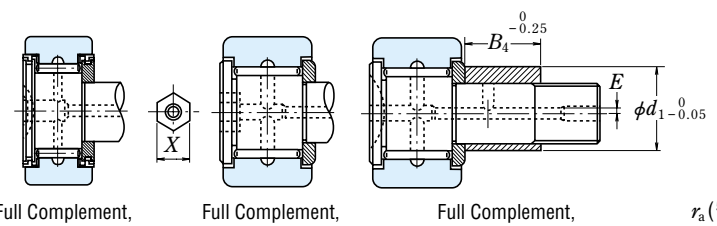
Note (1) For tolerance classes C12 and E11, please refer to ISO 286-1 and 286-2 (ISO system of limits and fits), respectively.
(✻) The tolerance of this bearing bore diameter is +0.025 to +0.175mm and outside diameter tolerance is −0.040 to −0.370mm

FCR (Full Complement)
FCRS [Full Complement, Sealed With Thrust Washer]
FCJ (With Cage)
FCJS [Sealed, with Cage and Thrust Washer]
Outside Diameter 16 – 90 mm



Full Complement

FCR



Full Complement, Sealed With Thrust Washer

FCRS

Full Complement, With Hexagonal Socket

FCRB

Full Complement, With Eccentric Bush

FCRE

Boundary Dimensions (mm)			Dimensions (mm)								Bearing Numbers	
D	C	d	Screw G	G_1	B_1	B_2	B_3	M_2	M_1	r min.	FCR FCJ	FCRS FCJS
16	11	6	M 6×1	8	28	16	—	—	4(1)	0.3	**FCR-16**	**FCRS-16**
	11	6	M 6×1	8	28	16	—	—	4(1)	0.3	**FCJ-16**	**FCJS-16**
19	11	8	M 8×1.25	10	32	20	—	—	4(1)	0.3	**FCR-19**	**FCRS-19**
	11	8	M 8×1.25	10	32	20	—	—	4(1)	0.3	**FCJ-19**	**FCJS-19**
22	12	10	M10×1.25	12	36	23	—	—	4(1)	0.3	**FCR-22**	**FCRS-22**
	12	10	M10×1.25	12	36	23	—	—	4(1)	0.3	**FCJ-22**	**FCJS-22**
26	12	10	M10×1.25	12	36	23	—	—	4(1)	0.3	**FCR-26**	**FCRS-26**
	12	10	M10×1.25	12	36	23	—	—	4(1)	0.3	**FCJ-26**	**FCJS-26**
30	14	12	M12×1.5	13	40	25	6	3	6	0.6	**FCR-30**	**FCRS-30**
	14	12	M12×1.5	13	40	25	6	3	6	0.6	**FCJ-30**	**FCJS-30**
32	14	12	M12×1.5	13	40	25	6	3	6	0.6	**FCR-32**	**FCRS-32**
	14	12	M12×1.5	13	40	25	6	3	6	0.6	**FCJ-32**	**FCJS-32**
35	18	16	M16×1.5	17	52	32.5	8	3	6	0.6	**FCR-35**	**FCRS-35**
	18	16	M16×1.5	17	52	32.5	8	3	6	0.6	**FCJ-35**	**FCJS-35**
40	20	18	M18×1.5	19	58	36.5	8	3	6	1	**FCR-40**	**FCRS-40**
	20	18	M18×1.5	19	58	36.5	8	3	6	1	**FCJ-40**	**FCJS-40**
47	24	20	M20×1.5	21	66	40.5	9	4	8	1	**FCR-47**	**FCRS-47**
	24	20	M20×1.5	21	66	40.5	9	4	8	1	**FCJ-47**	**FCJS-47**
52	24	20	M20×1.5	21	66	40.5	9	4	8	1	**FCR-52**	**FCRS-52**
	24	20	M20×1.5	21	66	40.5	9	4	8	1	**FCJ-52**	**FCJS-52**
62	29	24	M24×1.5	25	80	49.5	11	4	8	1	**FCR-62**	**FCRS-62**
	29	24	M24×1.5	25	80	49.5	11	4	8	1	**FCJ-62**	**FCJS-62**
72	29	24	M24×1.5	25	80	49.5	11	4	8	1	**FCR-72**	**FCRS-72**
	29	24	M24×1.5	25	80	49.5	11	4	8	1	**FCJ-72**	**FCJS-72**
80	35	30	M30×1.5	32	100	63	15	4	8	1	**FCR-80**	**FCRS-80**
	35	30	M30×1.5	32	100	63	15	4	8	1	**FCJ-80**	**FCJS-80**
85	35	30	M30×1.5	32	100	63	15	4	8	1	**FCR-85**	**FCRS-85**
	35	30	M30×1.5	32	100	63	15	4	8	1	**FCJ-85**	**FCJS-85**
90	35	30	M30×1.5	32	100	63	15	4	8	1	**FCR-90**	**FCRS-90**
	35	30	M30×1.5	32	100	63	15	4	8	1	**FCJ-90**	**FCJS-90**

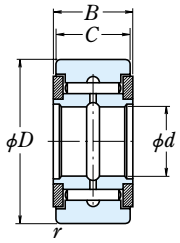
Basic Dynamic Load Ratings (N)	{kgf}	Limiting Loads (N)	{kgf}	Limiting Track Loads (N)	{kgf}	Mass (kg)	Dimensions of Hexagonal Socket (2) (width across flats) (mm)	Eccentric Bush Dimensions (3) (mm)			Shoulder Dimensions (mm)	Tightening Torque (4) (N·cm)	{kgf·cm}
C_r		P_{max}				approx.	X	B_4	d_1	E	F (min.)	(max.)	(max.)
5 800	590	2 360	240	3 350	340	0.020	4	8	9	0.5	11	226	23
2 830	288	2 360	240	3 350	340	0.018	4	8	9	0.5	11	226	23
6 600	670	4 200	425	4 150	425	0.031	4	10	11	0.5	13	550	56
3 450	355	4 200	425	4 150	425	0.030	4	10	11	0.5	13	550	56
8 550	875	6 550	665	5 300	540	0.047	5	11	13	0.5	15	1 060	108
4 350	445	6 550	665	5 300	540	0.045	5	11	13	0.5	15	1 060	108
8 550	875	6 550	665	6 000	610	0.060	5	11	13	0.5	15	1 060	108
4 350	445	6 550	665	6 000	610	0.058	5	11	13	0.5	15	1 060	108
12 500	1 280	9 250	945	7 800	795	0.088	6	12	17	1	20	1 450	148
7 200	735	9 250	945	7 800	795	0.086	6	12	17	1	20	1 450	148
12 500	1 280	9 250	945	8 050	820	0.099	6	12	17	1	20	1 450	148
7 200	735	9 250	945	8 050	820	0.096	6	12	17	1	20	1 450	148
18 600	1 900	17 000	1 740	11 800	1 200	0.17	10	15.5	22	1	24	4 000	410
9 700	990	17 000	1 740	11 800	1 200	0.165	10	15.5	22	1	24	4 000	410
20 500	2 090	21 700	2 220	14 300	1 460	0.25	10	17.5	24	1	26	5 950	605
10 300	1 050	21 700	2 220	14 300	1 460	0.24	10	17.5	24	1	26	5 950	605
28 200	2 880	26 400	2 690	20 800	2 120	0.39	12	19.5	27	1	31	8 450	860
19 200	1 950	26 400	2 690	20 800	2 120	0.38	12	19.5	27	1	31	8 450	860
28 200	2 880	26 400	2 690	22 900	2 340	0.47	12	19.5	27	1	31	8 450	860
19 200	1 950	26 400	2 690	22 900	2 340	0.455	12	19.5	27	1	31	8 450	860
40 000	4 100	38 500	3 950	34 000	3 450	0.80	14	24.5	34	1	45	15 200	1 550
24 900	2 540	38 500	3 950	34 000	3 450	0.79	14	24.5	34	1	45	15 200	1 550
40 000	4 100	38 500	3 950	38 000	3 860	1.05	14	24.5	34	1	45	15 200	1 550
24 900	2 540	38 500	3 950	38 000	3 860	1.05	14	24.5	34	1	45	15 200	1 550
60 500	6 200	61 000	6 200	52 000	5 300	1.55	17	31	40	1.5	52	30 500	3 120
39 000	4 000	61 000	6 200	52 000	5 300	1.55	17	31	40	1.5	52	30 500	3 120
60 500	6 200	61 000	6 200	55 500	5 650	1.75	17	31	40	1.5	52	30 500	3 120
39 000	4 000	61 000	6 200	55 500	5 650	1.75	17	31	40	1.5	52	30 500	3 120
60 500	6 200	61 000	6 200	59 000	6 000	1.95	17	31	40	1.5	52	30 500	3 120
39 000	4 000	61 000	6 200	59 000	6 000	1.95	17	31	40	1.5	52	30 500	3 120

Notes (1) Only the head of the stud has on oil hole.
(2) Applicable to FCRB only.
Remarks Standard grease is packed in sealed cam followers, but not in cam followers without seals.

Notes (3) Applicable to FCRE only.
(4) These values are for when the screw is oiled ; they should be approximately doubled when the screw is dry.
(5) Should not be greater than r (min).

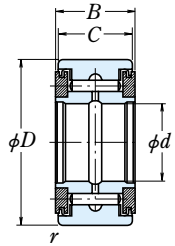
FYCR (Full Complement)
FYCRS [Full Complement, Sealed with Thrust Washer]
FYCJ (With Cage)
FYCJS [Sealed, with Cage and Thrust Washer]

Bore Diameter 5 – 50 mm



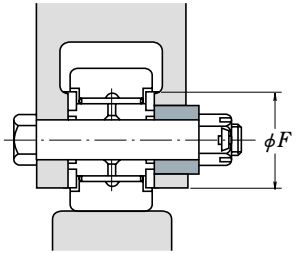
Full Complement

FYCR



Full Complement, Sealed with Thrust Washer

FYCRS



Boundary Dimensions (mm)					Basic Load Ratings (N)		Basic Load Ratings {kgf}		Limiting Track Loads (N)	Limiting Track Loads {kgf}
d	D	C	$B_{-0.38}^{0}$	r min.	C_r	C_{0r}	C_r	C_{0r}		
5	16	11	12	0.3	5 800	8 000	590	815	3 350	340
	16	11	12	0.3	2 830	2 620	288	267	3 350	340
6	19	11	12	0.3	6 550	9 900	665	1 010	4 150	425
	19	11	12	0.3	3 450	3 600	355	365	4 150	425
8	24	14	15	0.3	10 100	15 000	1 030	1 530	6 500	665
	24	14	15	0.3	5 700	6 000	580	610	6 500	665
10	30	14	15	0.6	11 700	18 500	1 190	1 890	7 800	795
	30	14	15	0.6	6 950	8 200	705	835	7 800	795
12	32	14	15	0.6	12 600	21 000	1 280	2 140	8 050	820
	32	14	15	0.6	7 650	9 650	780	985	8 050	820
15	35	18	19	0.6	18 700	29 300	1 910	2 990	11 800	1 200
	35	18	19	0.6	12 200	14 100	1 250	1 440	11 800	1 200
17	40	20	21	0.6	21 100	35 000	2 160	3 600	14 300	1 460
	40	20	21	0.6	13 700	16 700	1 390	1 700	14 300	1 460
20	47	24	25	1	28 900	50 000	2 940	5 100	20 800	2 120
	47	24	25	1	18 200	22 600	1 850	2 310	20 800	2 120
25	52	24	25	1	32 500	60 000	3 300	6 100	22 900	2 340
	52	24	25	1	22 200	31 000	2 270	3 150	22 900	2 340
30	62	28	29	1	47 500	96 000	4 800	9 800	33 000	3 350
	62	28	29	1	31 500	47 000	3 200	4 800	33 000	3 350
35	72	28	29	1	49 500	106 000	5 050	10 800	36 500	3 700
	72	28	29	1	33 000	52 500	3 400	5 350	36 500	3 700
40	80	30	32	1	54 500	126 000	5 600	12 800	43 500	4 450
	80	30	32	1	38 500	67 500	3 950	6 900	43 500	4 450
45	85	30	32	1	57 500	139 000	5 850	14 100	46 500	4 750
	85	30	32	1	40 000	73 000	4 100	7 450	46 500	4 750
50	90	30	32	1	60 500	152 000	6 150	15 500	49 500	5 050
	90	30	32	1	41 500	78 000	4 200	7 950	49 500	5 050

Bearing Numbers		Mass (kg)	Shoulder Dimensions (mm)
FYCR FYCJ	FYCRS FYCJS	approx.	F min.
FYCR-5	**FYCRS-5**	0.016	10
FYCJ-5	**FYCJS-5**	0.014	10
FYCR-6	**FYCRS-6**	0.022	12
FYCJ-6	**FYCJS-6**	0.020	12
FYCR-8	**FYCRS-8**	0.044	14
FYCJ-8	**FYCJS-8**	0.042	14
FYCR-10	**FYCRS-10**	0.069	17
FYCJ-10	**FYCJS-10**	0.067	17
FYCR-12	**FYCRS-12**	0.076	19
FYCJ-12	**FYCJS-12**	0.074	19
FYCR-15	**FYCRS-15**	0.105	23
FYCJ-15	**FYCJS-15**	0.097	23
FYCR-17	**FYCRS-17**	0.145	25
FYCJ-17	**FYCJS-17**	0.14	25
FYCR-20	**FYCRS-20**	0.255	29
FYCJ-20	**FYCJS-20**	0.245	29
FYCR-25	**FYCRS-25**	0.285	34
FYCJ-25	**FYCJS-25**	0.275	34
FYCR-30	**FYCRS-30**	0.48	51
FYCJ-30	**FYCJS-30**	0.47	51
FYCR-35	**FYCRS-35**	0.64	58
FYCJ-35	**FYCJS-35**	0.635	58
FYCR-40	**FYCRS-40**	0.88	66
FYCJ-40	**FYCJS-40**	0.865	66
FYCR-45	**FYCRS-45**	0.93	72
FYCJ-45	**FYCJS-45**	0.91	72
FYCR-50	**FYCRS-50**	0.995	76
FYCJ-50	**FYCJS-50**	0.965	76

Remarks Standard grease is packed in sealed cam followers, but not in cam followers without seals.