

Needle Roller Bearings

└ Cage & Needle Roller Assemblies

Boundary Dimensions (mm)			Basic Load Ratings (N)		Limiting Speeds (min ⁻¹)		Bearing Numbers	NSKHPS
F _w	E _w	B _c	C _r	C _{0r}	Grease	Oil		
5	8	8	2330	1860	60000	95000	FBNP-588	
6	9	8	2200	1780	48000	75000	FBNP-698	
6	9	10	3350	3050	48000	75000	FBNP-6910	
7	10	8	2840	2560	40000	67000	FBNP-7108	
7	10	10	3650	3550	40000	67000	FBNP-71010	
8	11	10	3950	4000	34000	56000	FBNP-81110	
8	11	13	4750	5150	34000	56000	FBNP-81113	
9	12	10	3750	3850	30000	50000	FBNP-91210	
9	12	11.5	4200	4500	-	-	FBN-91211Z-E	
9	12	13	5100	5750	30000	50000	FBNP-91213	
10	13	10	3950	4300	28000	45000	FBN-101310	
10	13	13	5400	6350	28000	45000	FBN-101313	
10	14	12.7	5900	5950	-	-	FBN-101412Z-E	
10	14	13	6500	6750	28000	45000	FWF-101413	
12	15	10	4350	5100	22000	36000	FBN-121510	
12	15	13	5950	7600	22000	36000	FBN-121513	
12	15	14.3	6400	8400	-	-	FBN-121514Z-E	
12	16	10	6100	6500	-	-	FWF-121610-E	
12	16	13	7350	8350	22000	38000	FWF-121613	
12	16	13	7250	8200	-	-	FBN-121613-E	
12	16	15.5	8500	10000	-	-	FBN-121615Z-E	
12	16	16	8500	10000	-	-	FBN-121616-E	
14	18	10	6750	7750	19000	32000	FWF-141810	
14	18	12	6950	8050	-	-	FBN-141812-E	
14	18	13	8050	9750	19000	32000	FWF-141813	
14	18	16.5	9250	11600	-	-	FBN-141816Z-E	
14	18	18	10700	14000	-	-	FBN-141818-E	
14	18	20	9550	12000	-	-	FBN-141820-E1	
14	19	10	7800	8050	-	-	FWF-141910-E	
14	20	12	8900	8600	-	-	FWF-142012-E	
14	20	17	13400	14600	20000	32000	FWF-142017	
15	19	9	5650	6250	-	-	FWF-15199-E	
15	19	10	7050	8400	18000	28000	FWF-151910	
15	19	13	8400	10500	18000	28000	FWF-151913	
15	19	18	11300	15300	-	-	FBN-151918-E	
15	20	10	7300	7600	-	-	FWF-152010-E	
15	21	10	7950	7500	-	-	FWF-152110-E	
15	21	17	13400	14800	19000	30000	FWF-152117	
15	21	18	12900	13900	-	-	FBN-152118-E	
16	20	10	7350	9000	17000	26000	FWF-162010	
16	20	13	8800	11300	17000	26000	FWF-162013	
16	20	22	13700	20000	-	-	FBN-162022-E	
16	20	23.5	14900	22300	-	-	FBN-162023Z-E	
16	21	11	8650	9600	-	-	FWF-162111-E	
16	21	20	14200	18100	-	-	FBN-162120-E	
16	22	12	9500	9600	-	-	FWF-162212-E	

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16	22	17	14700	16900	17000	28000	FWF-162217	
17	21	10	7650	9650	16000	26000	FWF-172110	
17	21	13	10200	14000	16000	26000	FWJ-172113	
17	21	23	14800	22500	-	-	FBN-172123-E	
17	23	17	15100	17800	16000	26000	FWF-172317	
18	22	10	7900	10300	15000	24000	FWF-182210	
18	22	13	9450	12900	15000	24000	FWF-182213	
18	22	17	11500	16500	-	-	FBN-182217-E	
18	22	22	14200	21600	-	-	FBN-182222-E	
18	22	23.6	15400	24100	-	-	FBN-182223Z-E	
18	23	14	11800	14800	-	-	FWF-182314-E	
18	24	12	10000	10600	-	-	FWF-182412-E	
18	24	17	17400	21600	15000	24000	FWJ-182417	
19	23	23.7	16000	25800	-	-	FBN-192323Z-E	
20	24	10	8000	10700	13000	20000	FWF-202410	
20	24	13	9700	13700	13000	20000	FWF-202413	
20	26	12	12200	14100	-	-	FWF-202612-E	
20	26	17	18000	23200	14000	22000	FWJ-202617	
20	26	17	16800	21200	-	-	FWF-202617-E	
20	28	18	18100	19400	-	-	FWF-202818-E	
22	26	10	8600	12200	12000	19000	FWF-222610	
22	26	13	10300	15300	12000	19000	FWF-222613	
22	28	14	13900	17100	-	-	FWF-222814-E	
22	28	17	17300	22700	12000	20000	FWF-222817	
22	29	15	16300	19000	-	-	FWF-222915-E	
22	32	16	19700	19400	-	-	FWF-223216-E	
23	31	16	17600	19400	-	-	FWF-233116-E	
24	30	15	15600	20300	-	-	FWF-243015-E	
24	30	17	17900	24300	-	-	FWF-243017-E	
24	31	20	21600	27800	-	-	FWF-243120-E	
25	29	10	9350	14100	10000	17000	FWF-252910	
25	29	13	11300	18000	10000	17000	FWF-252913	
25	31	17	19200	26800	10000	17000	FWF-253117	
25	32	16	17700	21900	-	-	FWF-253216-E	
28	33	13	13700	20400	9500	15000	FWF-283313	
28	33	17	17600	28300	9500	15000	FWF-283317	
28	34	17	19900	29100	9500	15000	FWF-283417	
28	35	16	18400	23700	-	-	FWF-283516-E	
30	35	13	14000	21600	8500	14000	FWF-303513	
30	35	17	18700	31500	8500	14000	FWF-303517A	
30	36.75	16.5	19600	26000	-	-	FWF-293616Z-E	
30	37	16	21900	30500	-	-	FWF-303716-E	
30	37	20	26000	38000	9000	14000	FWF-303720	
30	38	18	25500	34000	-	-	FWF-303818-E	
32	37	13	15100	24400	8000	13000	FWF-323713	
32	37	17	18500	31500	8000	13000	FWJ-323717	

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F _w	E _w	B _c	C _r	C _{0r}	Grease	Oil		
32	39	20	27300	41000	8500	13000	FWF-323920	
35	40	13	15800	26400	7500	12000	FWF-354013	
35	40	17	20500	37000	7500	12000	FWF-354017	
35	42	20	30000	47500	7500	12000	FWJ-354220	
40	45	17	21000	40000	6300	10000	FWF-404517A	
40	45	27	32000	68000	6300	10000	FWF-404527	
40	48	25	40500	66500	6700	10000	FWF-404825	
45	50	17	21600	43000	5600	9000	FWF-455017	
45	50	27	34000	77500	5600	9000	FWF-455027	
45	53	25	44000	77000	5600	9500	FWF-455325	
50	55	20	26900	59000	5000	8000	FWF-505520	
50	55	27	35000	83000	5000	8000	FWF-505527	
50	58	25	48500	90500	5300	8500	FWF-505825	
55	61	20	31000	64000	4500	7500	FWF-556120	
55	61	30	47000	109000	4500	7500	FWF-556130	
55	63	25	50000	97500	4800	7500	FWF-556325	
60	66	20	33000	71500	4300	6700	FWF-606620	
60	66	30	50000	122000	4300	6700	FWF-606630	
60	68	25	52000	105000	4300	6700	FWF-606825	
65	73	30	61000	132000	4000	6300	FWF-657330	
70	78	30	63000	140000	3600	6000	FWF-707830	
75	83	30	65000	151000	3400	5600	FWF-758330	
80	88	30	69000	166000	3200	5000	FWF-808830	
85	93	30	71000	176000	3000	4800	FWF-859330	
90	98	30	70000	177000	2800	4500	FWF-909830	
95	103	30	69500	177000	2600	4300	FWF-9510330	
100	108	30	75500	201000	2400	4000	FWF-10010830	