

F _w	Boundary Dimensions (mm)			Basic Load Ratings (N)		Limiting Speeds (min ⁻¹)		Bearing Numbers	Boundary Dimensions (mm)		NSKHPS
	D	C	r min.	C _r	C _{0r}	Grease	Oil		d	B	
9	16	12	0.3	6150	5400	24000	40000	LM91612-1	6	12	
9	16	12	0.3	6150	5400	24000	40000	RLM912	-	-	
9	16	16	0.3	7900	7450	24000	40000	RLM916	-	-	
10	17	10	0.3	5350	4650	22000	36000	RLM101710	-	-	
10	17	15	0.3	8050	7800	22000	36000	RLM101715	-	-	
12	17	12	0.3	6150	7650	18000	30000	RLM1212	-	-	
12	17	12	0.3	6150	7650	18000	30000	LM1212	8	12.2	
12	19	12	0.3	7300	7150	18000	30000	RLM121912	-	-	
12	19	12	0.3	7300	7150	18000	30000	LM121912	8	12.2	
14	22	13	0.3	9150	9950	20000	32000	NA4900	10	13	
14	22	13	0.3	9150	9950	20000	32000	RNA4900	-	-	
14	22	16	0.3	12100	12700	15000	24000	RLM1416	-	-	
14	22	16	0.3	12100	12700	15000	24000	LM1416	10	16.2	
14	22	20	0.3	15500	17500	15000	24000	RLM1420	-	-	
14	22	20	0.3	15500	17500	15000	24000	LM1420	10	20.2	
15	20	15	0.3	8100	11700	14000	24000	RLM1515	-	-	
15	20	15	0.3	8100	11700	14000	24000	LM1515	10	15.2	
15	20	20	0.3	11100	17400	14000	24000	RLM1520	-	-	
15	20	20	0.3	11100	17400	14000	24000	LM1520	10	20.2	
15	22	15	0.3	9900	11100	14000	24000	RLM152215	-	-	
15	22	15	0.3	9900	11100	14000	24000	LM152215	10	15.2	
16	24	13	0.3	10100	11700	17000	28000	NA4901	12	13	
16	24	13	0.3	10100	11700	17000	28000	RNA4901	-	-	
16	24	16	0.3	12900	14200	13000	22000	RLM1616	-	-	
16	24	16	0.3	12900	14200	13000	22000	LM1616	12	16.2	
16	24	20	0.3	16500	19500	13000	22000	RLM1620	-	-	
16	24	20	0.3	16500	19500	13000	22000	LM1620	12	20.2	
16	24	22	0.3	17900	24500	17000	28000	NA6901	12	22	
16	24	22	0.3	17900	24500	17000	28000	RNA6901	-	-	
17	22	10	0.3	5850	7950	13000	20000	RLM1710	-	-	
17	22	10	0.3	5850	7950	13000	20000	LM1710	12	10.2	
17	24	25	0.5	18200	25300	13000	20000	RLM172425	-	-	
17	24	25	0.5	18200	25300	13000	20000	LM172425	12	25.2	
18	25	15	0.5	11500	14300	12000	20000	RLM1815	-	-	
18	25	15	0.5	11500	14300	12000	20000	LM1815	15	15.2	
18	25	20	0.5	15800	21500	12000	20000	RLM1820	-	-	
18	25	20	0.5	15800	21500	12000	20000	LM1820	15	20.2	
20	27	10	0.5	7950	9150	11000	18000	RLM2010	-	-	
20	27	10	0.5	7950	9150	11000	18000	LM2010	15	10.2	
20	27	15	0.5	11900	15400	11000	18000	RLM2015	-	-	
20	27	15	0.5	11900	15400	11000	18000	LM2015	15	15.2	
20	27	20	0.5	16400	23200	11000	18000	RLM2020	-	-	
20	27	20	0.5	16400	23200	11000	18000	LM2020	15	20.2	
20	27	25	0.5	19800	29500	11000	18000	RLM2025	-	-	
20	27	25	0.5	19800	29500	11000	18000	LM2025	15	25.2	

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	D	C	r min.	C _r	C _{0r}	Grease	Oil		d	B	
20	28	13	0.3	10800	13600	13000	22000	NA4902	15	13	
20	28	13	0.3	10800	13600	13000	22000	RNA4902	-	-	
20	28	18	0.3	15700	21900	13000	22000	NA5902	15	18	
20	28	18	0.3	15700	21900	13000	22000	RNA5902	-	-	
20	28	23	0.3	19300	28600	13000	22000	NA6902	15	23	
20	28	23	0.3	19300	28600	13000	22000	RNA6902	-	-	
22	29	20	0.5	17700	26400	10000	16000	RLM2220	-	-	
22	29	20	0.5	17700	26400	10000	16000	LM2220	17	20.2	
22	29	25	0.5	21300	33500	10000	16000	RLM2225	-	-	
22	29	25	0.5	21300	33500	10000	16000	LM2225	17	25.2	
22	30	13	0.3	11600	15400	12000	20000	NA4903	17	13	
22	30	13	0.3	11600	15400	12000	20000	RNA4903	-	-	
22	30	18	0.3	16800	24800	12000	20000	NA5903	17	18	
22	30	18	0.3	16800	24800	12000	20000	RNA5903	-	-	
22	30	20	0.5	20000	27200	10000	16000	RLM223020	-	-	
22	30	20	0.5	20000	27200	10000	16000	LM223020	17	20.2	
22	30	23	0.3	20700	32500	12000	20000	NA6903	17	23	
22	30	23	0.3	20700	32500	12000	20000	RNA6903	-	-	
25	32	12	0.5	10300	13700	8500	14000	RLM2512	-	-	
25	32	12	0.5	10300	13700	8500	14000	LM2512	20	12.2	
25	32	20	0.5	18800	29700	8500	14000	RLM2520	-	-	
25	32	20	0.5	18800	29700	8500	14000	LM2520	20	20.2	
25	32	25	0.5	22700	37500	8500	14000	RLM2525	-	-	
25	32	25	0.5	22700	37500	8500	14000	LM2525	20	25.2	
25	37	17	0.3	19700	22900	11000	18000	NA4904	20	17	
25	37	17	0.3	19700	22900	11000	18000	RNA4904	-	-	
25	37	23	0.3	27800	35500	11000	18000	NA5904	20	23	
25	37	23	0.3	27800	35500	11000	18000	RNA5904	-	-	
25	37	30	0.3	36500	50500	11000	18000	NA6904	20	30	
25	37	30	0.3	36500	50500	11000	18000	RNA6904	-	-	
28	35	20	0.5	19900	33000	7500	12000	RLM2820	-	-	
28	35	20	0.5	19900	33000	7500	12000	LM2820	22	20.2	
28	35	25	0.5	23900	42000	7500	12000	RLM2825	-	-	
28	35	25	0.5	23900	42000	7500	12000	LM2825	22	25.2	
28	37	30	0.5	34000	52500	7500	12000	RLM283730	-	-	
28	37	30	0.5	34000	52500	7500	12000	LM283730	22	30.2	
28	39	17	0.3	22400	30500	9500	15000	NA49/22	22	17	
28	39	17	0.3	22400	30500	9500	15000	RNA49/22	-	-	
28	39	23	0.3	28300	41500	9500	15000	NA59/22	22	23	
28	39	23	0.3	28300	41500	9500	15000	RNA59/22	-	-	
28	39	30	0.3	37000	58500	9500	15000	NA69/22	22	30	
28	39	30	0.3	37000	58500	9500	15000	RNA69/22	-	-	
30	37	25	0.5	24500	44000	7100	12000	RLM3025	-	-	
30	37	25	0.5	24500	44000	7100	12000	LM3025	25	25.2	
30	40	20	0.5	25000	36000	7100	12000	RLM304020	-	-	

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	D	C	r min.	C _r	C _{0r}	Grease	Oil		d	B	
30	40	20	0.5	25000	36000	7100	12000	LM304020	25	20.2	
30	40	30	0.5	35000	56000	7100	12000	RLM304030	-	-	
30	40	30	0.5	35000	56000	7100	12000	LM304030	25	30.2	
30	42	17	0.3	21400	26800	9000	14000	NA4905	25	17	
30	42	17	0.3	21400	26800	9000	14000	RNA4905	-	-	
30	42	23	0.3	30000	41500	9000	14000	NA5905	25	23	
30	42	23	0.3	30000	41500	9000	14000	RNA5905	-	-	
30	42	30	0.3	39500	59000	9000	14000	NA6905	25	30	
30	42	30	0.3	39500	59000	9000	14000	RNA6905	-	-	
32	42	20	0.5	25800	38000	6700	11000	RLM3220	-	-	
32	42	20	0.5	25800	38000	6700	11000	LM3220	28	20.2	
32	42	30	0.5	36500	59000	6700	11000	RLM3230	-	-	
32	42	30	0.5	36500	59000	6700	11000	LM3230	28	30.2	
32	45	17	0.3	22200	28700	8500	13000	NA49/28	28	17	
32	45	17	0.3	22200	28700	8500	13000	RNA49/28	-	-	
32	45	23	0.3	31500	44500	8500	13000	NA59/28	28	23	
32	45	23	0.3	31500	44500	8500	13000	RNA59/28	-	-	
32	45	30	0.3	41000	63500	8500	13000	NA69/28	28	30	
32	45	30	0.3	41000	63500	8500	13000	RNA69/28	-	-	
35	42	20	0.5	22300	41000	6300	10000	RLM3520	-	-	
35	42	20	0.5	22300	41000	6300	10000	LM3520	30	20.2	
35	42	30	0.5	31000	63500	6300	10000	RLM3530	-	-	
35	42	30	0.5	31000	63500	6300	10000	LM3530	30	30.2	
35	45	20	0.5	27500	42500	6300	10000	RLM354520	-	-	
35	45	20	0.5	27500	42500	6300	10000	LM354520	30	20.2	
35	45	25	0.5	33000	54500	6300	10000	RLM354525	-	-	
35	45	25	0.5	33000	54500	6300	10000	LM354525	30	25.2	
35	45	30	0.5	38500	66000	6300	10000	RLM354530	-	-	
35	45	30	0.5	38500	66000	6300	10000	LM354530	30	30.2	
35	47	17	0.3	23900	32500	7500	12000	NA4906	30	17	
35	47	17	0.3	23900	32500	7500	12000	RNA4906	-	-	
35	47	23	0.3	33500	50500	7500	12000	NA5906	30	23	
35	47	23	0.3	33500	50500	7500	12000	RNA5906	-	-	
35	47	30	0.3	44000	71500	7500	12000	NA6906	30	30	
35	47	30	0.3	44000	71500	7500	12000	RNA6906	-	-	
37	47	20	0.6	28200	45000	6000	9500	RLM3720	-	-	
37	47	20	0.6	28200	45000	6000	9500	LM3720	32	20.3	
37	47	30	0.6	39500	69500	6000	9500	RLM3730	-	-	
37	47	30	0.6	39500	69500	6000	9500	LM3730	32	30.3	
38	48	20	0.6	29000	47000	5600	9000	RLM3820	-	-	
38	48	20	0.6	29000	47000	5600	9000	LM3820	32	20.3	
38	48	30	0.6	41000	73000	5600	9000	RLM3830	-	-	
38	48	30	0.6	41000	73000	5600	9000	LM3830	32	30.3	
40	50	20	0.6	29700	49000	5300	9000	RLM4020	-	-	
40	50	20	0.6	29700	49000	5300	9000	LM4020	35	20.3	

Needle Roller Bearings

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F _w	D	C	r min.	C _r	C _{0r}	Grease	Oil		d	B	
40	50	30	0.6	42000	76500	5300	9000	RLM4030	-	-	
40	50	30	0.6	42000	76500	5300	9000	LM4030	35	30.3	
40	52	20	0.6	29900	45000	6700	10000	NA49/32	32	20	
40	52	20	0.6	29900	45000	6700	10000	RNA49/32	-	-	
40	52	27	0.6	40500	66000	6700	10000	NA59/32	32	27	
40	52	27	0.6	40500	66000	6700	10000	RNA59/32	-	-	
40	52	36	0.6	56000	101000	6700	10000	NA69/32	32	36	
40	52	36	0.6	56000	101000	6700	10000	RNA69/32	-	-	
42	55	20	0.6	30500	47500	6300	10000	NA4907	35	20	
42	55	20	0.6	30500	47500	6300	10000	RNA4907	-	-	
42	55	27	0.6	41500	69500	6300	10000	NA5907	35	27	
42	55	27	0.6	41500	69500	6300	10000	RNA5907	-	-	
42	55	36	0.6	57500	106000	6300	10000	NA6907	35	36	
42	55	36	0.6	57500	106000	6300	10000	RNA6907	-	-	
45	55	20	0.6	31000	53500	4800	8000	RLM4520	-	-	
45	55	20	0.6	31000	53500	4800	8000	LM4520	40	20.3	
45	55	30	0.6	43500	83500	4800	8000	RLM4530	-	-	
45	55	30	0.6	43500	83500	4800	8000	LM4530	40	30.3	
48	62	22	0.6	39000	61500	5600	9000	NA4908	40	22	
48	62	22	0.6	39000	61500	5600	9000	RNA4908	-	-	
48	62	30	0.6	54500	95000	5600	9000	NA5908	40	30	
48	62	30	0.6	54500	95000	5600	9000	RNA5908	-	-	
48	62	40	0.6	72000	137000	5600	9000	NA6908	40	40	
48	62	40	0.6	72000	137000	5600	9000	RNA6908	-	-	
50	62	20	0.6	35500	60500	4300	7100	RLM506220	-	-	
50	62	20	0.6	35500	60500	4300	7100	LM506220	42	20.3	
50	62	25	0.6	43000	77500	4300	7100	RLM506225	-	-	
50	62	25	0.6	43000	77500	4300	7100	LM506225	42	25.3	
52	68	22	0.6	41000	67500	5000	8000	NA4909	45	22	
52	68	22	0.6	41000	67500	5000	8000	RNA4909	-	-	
52	68	30	0.6	57000	104000	5000	8000	NA5909	45	30	
52	68	30	0.6	57000	104000	5000	8000	RNA5909	-	-	
52	68	40	0.6	76000	149000	5000	8000	NA6909	45	40	
52	68	40	0.6	76000	149000	5000	8000	RNA6909	-	-	
55	65	30	0.6	49000	104000	4000	6300	RLM5530	-	-	
55	65	30	0.6	49000	104000	4000	6300	LM5530	45	30.3	
55	67	20	0.6	38000	68000	4000	6300	RLM556720	-	-	
55	67	20	0.6	38000	68000	4000	6300	LM556720	45	20.3	
58	72	22	0.6	42500	73500	4500	7100	NA4910	50	22	
58	72	22	0.6	42500	73500	4500	7100	RNA4910	-	-	
58	72	30	0.6	59500	113000	4500	7100	NA5910	50	30	
58	72	30	0.6	59500	113000	4500	7100	RNA5910	-	-	
58	72	40	0.6	79000	163000	4500	7100	NA6910	50	40	
58	72	40	0.6	79000	163000	4500	7100	RNA6910	-	-	
63	80	25	1	53500	87500	4000	6700	NA4911	55	25	

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F _w	D	C	r min.	C _r	C _{0r}	Grease	Oil		d	B	
63	80	25	1	53500	87500	4000	6700	RNA4911	-	-	
63	80	34	1	73500	133000	4000	6700	NA5911	55	34	
63	80	34	1	73500	133000	4000	6700	RNA5911	-	-	
63	80	45	1	93500	181000	4000	6700	NA6911	55	45	
63	80	45	1	93500	181000	4000	6700	RNA6911	-	-	
68	85	25	1	56000	95500	3800	6300	NA4912	60	25	
68	85	25	1	56000	95500	3800	6300	RNA4912	-	-	
68	85	34	1	77500	145000	3800	6300	NA5912	60	34	
68	85	34	1	77500	145000	3800	6300	RNA5912	-	-	
68	85	45	1	98000	197000	3800	6300	NA6912	60	45	
68	85	45	1	98000	197000	3800	6300	RNA6912	-	-	
72	90	25	1	58500	103000	3600	5600	NA4913	65	25	
72	90	25	1	58500	103000	3600	5600	RNA4913	-	-	
72	90	34	1	81000	157000	3600	5600	NA5913	65	34	
72	90	34	1	81000	157000	3600	5600	RNA5913	-	-	
72	90	45	1	103000	213000	3600	5600	NA6913	65	45	
72	90	45	1	103000	213000	3600	5600	RNA6913	-	-	
80	100	30	1	80500	143000	3200	5300	NA4914	70	30	
80	100	30	1	80500	143000	3200	5300	RNA4914	-	-	
80	100	40	1	107000	206000	3200	5300	NA5914	70	40	
80	100	40	1	107000	206000	3200	5300	RNA5914	-	-	
80	100	54	1	143000	298000	3200	5300	NA6914	70	54	
80	100	54	1	143000	298000	3200	5300	RNA6914	-	-	
85	105	30	1	84000	155000	3000	5000	NA4915	75	30	
85	105	30	1	84000	155000	3000	5000	RNA4915	-	-	
85	105	40	1	112000	222000	3000	5000	NA5915	75	40	
85	105	40	1	112000	222000	3000	5000	RNA5915	-	-	
85	105	54	1	149000	325000	3000	5000	NA6915	75	54	
85	105	54	1	149000	325000	3000	5000	RNA6915	-	-	
90	110	30	1	87500	166000	2800	4500	NA4916	80	30	
90	110	30	1	87500	166000	2800	4500	RNA4916	-	-	
90	110	40	1	116000	239000	2800	4500	NA5916	80	40	
90	110	40	1	116000	239000	2800	4500	RNA5916	-	-	
90	110	54	1	155000	345000	2800	4500	NA6916	80	54	
90	110	54	1	155000	345000	2800	4500	RNA6916	-	-	
100	120	35	1.1	104000	214000	2600	4000	NA4917	85	35	
100	120	35	1.1	104000	214000	2600	4000	RNA4917	-	-	
100	120	46	1.1	138000	310000	2600	4000	NA5917	85	46	
100	120	46	1.1	138000	310000	2600	4000	RNA5917	-	-	
100	120	63	1.1	174000	415000	2600	4000	NA6917	85	63	
100	120	63	1.1	174000	415000	2600	4000	RNA6917	-	-	
105	125	35	1.1	108000	228000	2400	4000	NA4918	90	35	
105	125	35	1.1	108000	228000	2400	4000	RNA4918	-	-	
105	125	46	1.1	143000	330000	2400	4000	NA5918	90	46	
105	125	46	1.1	143000	330000	2400	4000	RNA5918	-	-	

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105	125	63	1.1	181000	445000	2400	4000	NA6918	90	63	
105	125	63	1.1	181000	445000	2400	4000	RNA6918	-	-	
110	130	35	1.1	111000	242000	2200	3800	NA4919	95	35	
110	130	35	1.1	111000	242000	2200	3800	RNA4919	-	-	
110	130	46	1.1	148000	350000	2200	3800	NA5919	95	46	
110	130	46	1.1	148000	350000	2200	3800	RNA5919	-	-	
110	130	63	1.1	187000	470000	2200	3800	NA6919	95	63	
110	130	63	1.1	187000	470000	2200	3800	RNA6919	-	-	
115	140	40	1.1	144000	295000	2200	3600	NA4920	100	40	
115	140	40	1.1	144000	295000	2200	3600	RNA4920	-	-	
115	140	54	1.1	193000	430000	2200	3600	NA5920	100	54	
115	140	54	1.1	193000	430000	2200	3600	RNA5920	-	-	
120	140	30	1	99500	214000	2000	3400	NA4822	110	30	
120	140	30	1	99500	214000	2000	3400	RNA4822	-	-	
125	150	40	1.1	149000	315000	2000	3200	NA4922	110	40	
125	150	40	1.1	149000	315000	2000	3200	RNA4922	-	-	
125	150	54	1.1	200000	460000	2000	3200	NA5922	110	54	
125	150	54	1.1	200000	460000	2000	3200	RNA5922	-	-	
130	150	30	1	105000	238000	1900	3200	NA4824	120	30	
130	150	30	1	105000	238000	1900	3200	RNA4824	-	-	
135	165	45	1.1	192000	395000	1900	3000	NA4924	120	45	
135	165	45	1.1	192000	395000	1900	3000	RNA4924	-	-	
135	165	60	1.1	253000	565000	1900	3000	NA5924	120	60	
135	165	60	1.1	253000	565000	1900	3000	RNA5924	-	-	
145	165	35	1.1	127000	315000	1700	2800	NA4826	130	35	
145	165	35	1.1	127000	315000	1700	2800	RNA4826	-	-	
150	180	50	1.5	228000	515000	1700	2800	NA4926	130	50	
150	180	50	1.5	228000	515000	1700	2800	RNA4926	-	-	
150	180	67	1.5	299000	725000	1700	2800	NA5926	130	67	
150	180	67	1.5	299000	725000	1700	2800	RNA5926	-	-	
155	175	35	1.1	133000	340000	1600	2600	NA4828	140	35	
155	175	35	1.1	133000	340000	1600	2600	RNA4828	-	-	
160	190	50	1.5	235000	545000	1600	2600	NA4928	140	50	
160	190	50	1.5	235000	545000	1600	2600	RNA4928	-	-	
160	190	67	1.5	310000	775000	1600	2600	NA5928	140	67	
160	190	67	1.5	310000	775000	1600	2600	RNA5928	-	-	
165	190	40	1.1	180000	440000	1500	2400	NA4830	150	40	
165	190	40	1.1	180000	440000	1500	2400	RNA4830	-	-	
175	200	40	1.1	184000	465000	1400	2200	NA4832	160	40	
175	200	40	1.1	184000	465000	1400	2200	RNA4832	-	-	
185	215	45	1.1	224000	540000	1400	2200	NA4834	170	45	
185	215	45	1.1	224000	540000	1400	2200	RNA4834	-	-	
195	225	45	1.1	230000	565000	1300	2000	NA4836	180	45	
195	225	45	1.1	230000	565000	1300	2000	RNA4836	-	-	
210	240	50	1.5	268000	705000	1200	1900	NA4838	190	50	

F_w	Boundary Dimensions (mm)			Basic Load Ratings (N)		Limiting Speeds (min^{-1})		Bearing Numbers	Boundary Dimensions (mm)		NSKHPS
	D	C	r min.	C_r	C_{0r}	Grease	Oil		d	B	
210	240	50	1.5	268000	705000	1200	1900	RNA4838	-	-	
220	250	50	1.5	274000	740000	1100	1800	NA4840	200	50	
220	250	50	1.5	274000	740000	1100	1800	RNA4840	-	-	
240	270	50	1.5	286000	805000	1000	1700	NA4844	220	50	
240	270	50	1.5	286000	805000	1000	1700	RNA4844	-	-	
265	300	60	2	375000	1070000	950	1500	NA4848	240	60	
265	300	60	2	375000	1070000	950	1500	RNA4848	-	-	
285	320	60	2	395000	1160000	900	1400	NA4852	260	60	
285	320	60	2	395000	1160000	900	1400	RNA4852	-	-	
305	350	69	2	510000	1390000	800	1300	NA4856	280	69	
305	350	69	2	510000	1390000	800	1300	RNA4856	-	-	
330	380	80	2.1	660000	1810000	750	1200	NA4860	300	80	
330	380	80	2.1	660000	1810000	750	1200	RNA4860	-	-	
350	400	80	2.1	675000	1900000	710	1100	NA4864	320	80	
350	400	80	2.1	675000	1900000	710	1100	RNA4864	-	-	
370	420	80	2.1	690000	1990000	670	1100	NA4868	340	80	
370	420	80	2.1	690000	1990000	670	1100	RNA4868	-	-	
390	440	80	2.1	705000	2080000	630	1000	NA4872	360	80	
390	440	80	2.1	705000	2080000	630	1000	RNA4872	-	-	