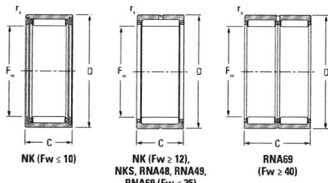


NEEDLE ROLLER BEARINGS

NEEDLE ROLLER BEARINGS WITHOUT INNER RINGS

METRIC SERIES  
NK, NKS, RNA48, RNA49  
RNA69 SERIES



Shaft Dia. mm in	F <sub>w</sub> mm in	D mm in	C mm in	r <sub>max</sub> mm in	Bearing Designation	Load Ratings		Fatigue Load Limit kN lbf	Speed Ratings		Approx. Wt. kg lbs
						Dynamic C	Static C <sub>0</sub>		Grits	Oil	
25 0.9843	25 0.9843	30 1.1811	15 0.5906	0.6 0.024	NK32SA	29.1 842	33 745	5.30	12000	18000	0.076 0.168
25 0.9843	25 0.9843	34 1.3386	16 0.63	0.3 0.012	NK36SA	16.4 370	25.7 578	3.05	11000	17000	0.030 0.066
25 0.9843	25 0.9843	34 1.3386	20 0.787	0.3 0.012	NK36SA	19.7 442	32 719	5.05	11000	17000	0.048 0.106
25 0.9843	25 0.9843	37 1.4567	20 0.787	0.3 0.012	NK36SA	22.6 508	24.4 545	5.50	10000	16000	0.063 0.139
25 0.9843	25 0.9843	37 1.4567	30 1.181	0.3 0.012	NK36SA	29 650	53.8 1200	8.30	10000	16000	0.088 0.194
25 0.9843	25 0.9843	39 1.5354	17 0.669	0.3 0.012	RNA48/22	23.3 524	29.6 663	4.55	10000	16000	0.069 0.150
25 0.9843	25 0.9843	39 1.5354	30 1.181	0.3 0.012	RNA48/22A	30.6 686	50.7 1130	3.05	10000	16000	0.103 0.228
25 0.9843	25 0.9843	42 1.6535	20 0.787	0.6 0.024	NK42SA	20.3 457	28.4 635	6.15	11000	17000	0.094 0.207
25 0.9843	25 0.9843	42 1.6535	38 1.496	0.3 0.012	NK42SA	22.4 500	26.4 588	5.80	9800	16000	0.069 0.150
25 0.9843	25 0.9843	48 1.8898	20 0.787	0.3 0.012	NK48SA	22.4 500	26.4 588	5.80	9800	16000	0.069 0.150
25 0.9843	25 0.9843	48 1.8898	30 1.181	0.3 0.012	NK48SA	29.8 667	56.4 1250	8.30	9300	15000	0.090 0.199
30 1.1811	30 1.1811	40 1.5748	20 0.787	0.3 0.012	NK30/20A	24.2 540	28.3 630	6.10	9800	15000	0.071 0.157
30 1.1811	30 1.1811	40 1.5748	30 1.181	0.3 0.012	NK30/20A	34.1 760	47.1 1050	9.45	9500	15000	0.103 0.228
30 1.1811	30 1.1811	42 1.6535	17 0.669	0.3 0.012	RNA49/24	24.3 542	31.7 707	4.50	9300	15000	0.071 0.157
30 1.1811	30 1.1811	42 1.6535	30 1.181	0.3 0.012	RNA49/24A	29.9 665	58.5 1300	5.30	9300	15000	0.122 0.269
30 1.1811	30 1.1811	45 1.7717	22 0.866	0.6 0.024	NK45SA	34.3 762	42.8 950	6.85	9800	15000	0.114 0.251
32 1.2598	32 1.2598	42 1.6535	20 0.787	0.3 0.012	NK32SA	24.8 553	48.4 1070	6.45	9800	14000	0.074 0.163
32 1.2598	32 1.2598	42 1.6535	30 1.181	0.3 0.012	NK32SA	35.6 790	54.3 1200	9.95	9800	14000	0.112 0.247
32 1.2598	32 1.2598	45 1.7717	25.1 0.989	0.3 0.012	RNA49/28	25.1 559	33.8 750	5.20	9000	14000	0.080 0.176
32 1.2598	32 1.2598	45 1.7717	30 1.181	0.3 0.012	RNA49/28A	43.2 961	62.5 1390	9.75	9100	14000	0.140 0.309
32 1.2598	32 1.2598	47 1.8504	22 0.866	0.6 0.024	NK52SA	35 780	46.2 1030	7.40	9200	14000	0.120 0.265
35 1.378	35 1.378	45 1.7717	20 0.787	0.3 0.012	NK35SA	25.1 560	44.4 980	7.05	8000	12000	0.081 0.179
35 1.378	35 1.378	45 1.7717	30 1.181	0.3 0.012	NK35SA	31.4 699	50.6 1120	11.0	8000	12000	0.122 0.269

B-4-22 NEEDLE ROLLER BEARINGS

Heavy-Duty Needle Roller Bearings

Shaft Dia. mm in	F <sub>w</sub> mm in	D mm in	C mm in	r <sub>max</sub> mm in	Bearing Designation	Load Ratings		Fatigue Load Limit kN lbf	Speed Ratings		Approx. Wt. kg lbs
						Dynamic C	Static C <sub>0</sub>		Grits	Oil	
35 1.378	35 1.378	47 1.8504	18 0.709	0.3 0.012	RNA49/30	25.9 580	35 780	5.55	9000	13000	0.081 0.179
35 1.378	35 1.378	47 1.8504	30 1.181	0.3 0.012	RNA49/30A	42.6 950	62.2 1390	10.6	9000	13000	0.168 0.369
35 1.378	35 1.378	50 1.9685	22 0.866	0.6 0.024	NK50SA	31.5 700	49.9 1100	8.00	9400	13000	0.130 0.287
37 1.4567	37 1.4567	47 1.8504	20 0.787	0.3 0.012	NK37SA	26.6 590	46.4 1030	7.40	7800	12000	0.084 0.185
37 1.4567	37 1.4567	47 1.8504	30 1.181	0.3 0.012	NK37SA	38.2 850	73.9 1640	11.5	7800	12000	0.128 0.282
38 1.4961	38 1.4961	52 2.0472	22 0.866	0.6 0.024	NK52SA	39 860	53.4 1190	8.55	7900	12000	0.134 0.295
38 1.4961	38 1.4961	48 1.8898	20 0.787	0.3 0.012	NK38SA	21.7 480	46.9 1040	6.40	7200	11000	0.087 0.192
38 1.4961	38 1.4961	48 1.8898	30 1.181	0.3 0.012	NK38SA	31.9 710	67 1480	10.4	7200	11000	0.131 0.289
40 1.5748	40 1.5748	50 1.9685	20 0.787	0.3 0.012	NK40SA	27.8 615	58.4 1300	8.05	7000	11000	0.089 0.196
40 1.5748	40 1.5748	50 1.9685	30 1.181	0.3 0.012	NK40SA	40 890	62.2 1390	12.4	7000	11000	0.137 0.302
40 1.5748	40 1.5748	52 2.0472	20 0.787	0.6 0.024	RNA49/32	32 710	49.3 1100	7.85	7100	11000	0.100 0.220
40 1.5748	40 1.5748	52 2.0472	35 1.417	0.6 0.024	RNA49/32A	48.6 1080	84.5 1860	26.1	7100	11000	0.185 0.409
40 1.5748	40 1.5748	55 2.1653	22 0.866	0.6 0.024	NK55SA	40.3 900	57 1260	9.15	7200	11000	0.140 0.308
42 1.6535	42 1.6535	52 2.0472	20 0.787	0.3 0.012	NK42SA	28.3 630	46.6 1040	8.25	6600	10000	0.085 0.187
42 1.6535	42 1.6535	52 2.0472	30 1.181	0.3 0.012	NK42SA	40.7 910	63.5 1410	13.0	6600	10000	0.141 0.311
42 1.6535	42 1.6535	55 2.1653	20 0.787	0.6 0.024	RNA49/37	32.8 730	51.7 1150	8.25	6300	10000	0.114 0.251
42 1.6535	42 1.6535	55 2.1653	35 1.417	0.6 0.024	RNA49/37A	49.8 1100	88.7 1950	13.7	6300	10000	0.218 0.481
43 1.6929	43 1.6929	53 2.0866	20 0.787	0.3 0.012	NK43SA	29 650	54.4 1210	8.65	6400	9500	0.095 0.212
43 1.6929	43 1.6929	53 2.0866	30 1.181	0.3 0.012	NK43SA	41.6 920	66.6 1480	13.4	6400	9500	0.134 0.295
43 1.6929	43 1.6929	55 2.1653	22 0.866	0.6 0.024	NK55SA	41.6 920	60.7 1350	9.75	6700	10000	0.150 0.331
45 1.7717	45 1.7717	55 2.1653	20 0.787	0.3 0.012	NK45SA	29.5 655	56.4 1250	9.00	6100	9400	0.100 0.220
45 1.7717	45 1.7717	55 2.1653	30 1.181	0.3 0.012	NK45SA	42.3 935	69.8 1540	13.5	6100	9400	0.151 0.333
45 1.7717	45 1.7717	60 2.3622	22 0.866	0.6 0.024	NK60SA	43 950	64.2 1430	10.3	6400	9800	0.156 0.344
47 1.8504	47 1.8504	57 2.2441	20 0.787	0.3 0.012	NK47SA	30 670	58.5 1300	9.30	5900	9000	0.104 0.229
47 1.8504	47 1.8504	57 2.2441	30 1.181	0.3 0.012	NK47SA	43 950	70.1 1550	14.4	5900	9000	0.158 0.348
48 1.8898	48 1.8898	62 2.4409	22 0.866	0.6 0.024	RNA49/40	44.2 980	67.8 1500	10.9	5800	9100	0.154 0.340
48 1.8898	48 1.8898	62 2.4409	40 1.575	0.6 0.024	RNA49/40A	70.8 1560	124 2750	19.8	5800	9100	0.300 0.661
50 1.9685	50 1.9685	62 2.4409	25 0.984	0.3 0.012	NK50SA	49.7 1100	79.3 1750	12.5	5600	8500	0.171 0.377

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NEEDLE ROLLER BEARINGS B-4-23