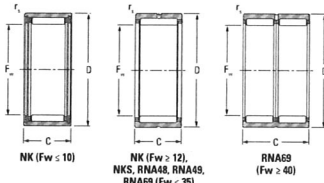


NEEDLE ROLLER BEARINGS

NEEDLE ROLLER BEARINGS WITHOUT INNER RINGS

METRIC SERIES
NK, NKS, RNA48, RNA49
RNA69 SERIES



Shaft Dia. mm in	F _w mm in	D mm in	C mm in	r _{max} mm in	Bearing Designation	Load Ratings			Fatigue Load Limit C ₁₀ kN lbf	Speed Ratings		Approx. Wt. kg lb
						Dynamic C	Static C ₀	Grease mm/s		Oil mm/s		
50 1.9685	50 1.9685	62 2.445	25 1.378	0.6 0.024	NK50/25A	55 2400	113 26200	18.2	9500	8500	0.242 0.534	
50 1.9685	50 1.9685	62 2.445	22 1.1	0.6 0.024	NK50/22A	45.5 12200	71.3 16000	11.4	9300	8300	0.178 0.375	
52 2.0472	52 2.0472	68 2.6772	22 0.866	0.6 0.024	RNA48/22	48.8 12000	74.8 16600	12.0	9400	8400	0.201 0.442	
52 2.0472	52 2.0472	68 2.6772	22 1.575	0.6 0.024	RNA48/22A	44.7 1800	137 30600	21.7	9400	8400	0.202 0.444	
55 2.1654	55 2.1654	68 2.6772	25 0.984	0.6 0.024	NK55/25A	46.1 12400	87.3 19600	13.6	9500	8500	0.207 0.456	
55 2.1654	55 2.1654	68 2.6772	25 1.378	0.6 0.024	NK55/25A	42.3 9000	129 28900	20.0	9500	8500	0.203 0.446	
55 2.1654	55 2.1654	72 2.8346	22 0.866	0.6 0.024	NK55/22A	47.8 12600	78.4 17500	13.6	9100	7900	0.225 0.496	
58 2.2832	58 2.2832	72 2.8346	22 0.866	0.6 0.024	RNA49/22	48.9 11200	82 18400	13.2	8800	7400	0.179 0.395	
58 2.2832	58 2.2832	72 2.8346	22 1.575	0.6 0.024	RNA49/22A	35.7 7900	144 32400	22.6	8800	7400	0.204 0.452	
60 2.3622	60 2.3622	72 2.8346	25 0.984	0.6 0.024	NK60/25A	44.3 9960	54 21100	14.6	8400	7200	0.202 0.446	
60 2.3622	60 2.3622	72 2.8346	25 1.378	0.6 0.024	NK60/25A	59.9 13500	129 28900	21.5	8400	7200	0.286 0.631	
60 2.3622	60 2.3622	80 3.1496	28 1.1	0.6 0.024	NK60/28A	66.8 15000	109 24300	16.5	8600	7300	0.337 0.743	
63 2.4813	63 2.4813	80 3.1496	25 0.984	0.6 0.024	RNA49/25	62 13900	107 23900	17.1	8500	7500	0.295 0.650	
63 2.4813	63 2.4813	80 3.1496	25 1.378	0.6 0.024	RNA49/25A	54.2 12000	112 24900	27.8	8500	7500	0.346 0.760	
65 2.5591	65 2.5591	80 3.1496	25 0.984	0.6 0.024	NK65/25A	48.2 10800	97.7 22000	15.5	8000	6800	0.257 0.568	
65 2.5591	65 2.5591	80 3.1496	25 1.378	0.6 0.024	NK65/25A	63.2 14100	114 25400	22.4	8000	6800	0.298 0.657	
65 2.5591	65 2.5591	88 3.4646	28 1.1	0.6 0.024	NK65/28A	71 16000	114 25400	18.3	8000	6900	0.362 0.798	
68 2.6772	68 2.6772	82 3.2283	25 0.984	0.6 0.024	NK68/25A	49 10900	101 22700	16.1	8000	6900	0.287 0.633	
68 2.6772	68 2.6772	82 3.2283	25 1.378	0.6 0.024	NK68/25A	66.2 14600	119 26500	23.2	8000	6900	0.390 0.862	
68 2.6772	68 2.6772	85 3.3465	25 0.984	0.6 0.024	RNA49/25	64.8 14000	116 26100	18.6	8100	6900	0.304 0.670	
68 2.6772	68 2.6772	85 3.3465	25 1.378	0.6 0.024	RNA49/25A	59.2 13200	119 26500	30.5	8100	6900	0.346 0.764	
70 2.7559	70 2.7559	85 3.3465	25 0.984	0.6 0.024	NK70/25A	43.6 9800	87.9 19600	16.6	7600	6500	0.298 0.657	

Heavy-Duty Needle Roller Bearings

Shaft Dia. mm in	F _w mm in	D mm in	C mm in	r _{max} mm in	Bearing Designation	Load Ratings			Fatigue Load Limit C ₁₀ kN lbf	Speed Ratings		Approx. Wt. kg lb
						Dynamic C	Static C ₀	Grease mm/s		Oil mm/s		
70 2.7559	70 2.7559	85 3.3465	25 1.378	0.6 0.024	NK70/25A	62.2 14000	139 31000	24.0	9000	8000	0.411 0.908	
70 2.7559	70 2.7559	85 3.3465	25 1.1	0.6 0.024	NK70/25A	72.6 16300	139 31000	19.3	9000	8000	0.363 0.804	
72 2.8346	72 2.8346	90 3.5433	25 0.984	0.6 0.024	RNA49/25	66 14800	121 27200	19.4	9000	8000	0.346 0.763	
72 2.8346	72 2.8346	90 3.5433	25 1.777	0.6 0.024	RNA49/25A	107 24100	132 29700	34.5	9000	8000	0.679 1.502	
73 2.874	73 2.874	90 3.5433	25 0.984	0.6 0.024	NK73/25A	61.5 13800	119 26800	19.0	8800	7800	0.328 0.735	
73 2.874	73 2.874	90 3.5433	25 1.378	0.6 0.024	NK73/25A	82.5 18500	132 29700	27.1	8800	7800	0.458 1.012	
75 2.9528	75 2.9528	92 3.622	25 0.984	0.6 0.024	NK75/25A	43.7 9800	66.2 14800	16.0	8600	7600	0.264 0.582	
75 2.9528	75 2.9528	92 3.622	25 1.378	0.6 0.024	NK75/25A	68.9 15300	138 31000	27.1	8600	7600	0.518 1.142	
75 2.9528	75 2.9528	95 3.7402	25 1.1	0.6 0.024	NK75/25A	76.5 17000	132 29700	21.1	8700	7700	0.413 0.911	
80 3.1496	80 3.1496	95 3.7402	25 0.984	0.6 0.024	NK80/25A	66 14800	121 27200	21.0	8400	7400	0.321 0.713	
80 3.1496	80 3.1496	95 3.7402	25 1.378	0.6 0.024	NK80/25A	79.7 17600	144 32000	28.7	8400	7400	0.380 0.838	
80 3.1496	80 3.1496	100 3.937	28 1.1	0.6 0.024	RNA49/28	86.3 19400	132 29700	25.1	8500	7500	0.500 1.107	
80 3.1496	80 3.1496	100 3.937	28 1.575	0.6 0.024	RNA49/28A	137 30800	286 64000	45.7	8500	7500	0.946 2.086	
85 3.3465	85 3.3465	105 4.1329	25 0.984	0.6 0.024	RNA49/25	76.4 17000	132 29700	22.2	8300	7300	0.506 1.116	
85 3.3465	85 3.3465	105 4.1329	25 1.378	0.6 0.024	RNA49/25A	92.4 20800	175 39000	28.0	8300	7300	0.628 1.394	
85 3.3465	85 3.3465	105 4.1329	25 1.777	0.6 0.024	RNA49/25A	108 24300	214 48100	34.7	8300	7300	0.818 1.806	
85 3.3465	85 3.3465	105 4.1329	28 1.1	0.6 0.024	RNA49/28	142 32100	308 69000	48.3	8300	7300	1.009 2.248	
90 3.5433	90 3.5433	110 4.3307	25 0.984	0.6 0.024	NK90/25A	79.5 17600	147 32800	23.6	8100	7100	0.460 1.012	
90 3.5433	90 3.5433	110 4.3307	25 1.378	0.6 0.024	RNA49/25	91.9 20600	176 39000	28.1	8100	7100	0.556 1.235	
90 3.5433	90 3.5433	110 4.3307	25 1.777	0.6 0.024	RNA49/25A	113 25400	230 51300	36.1	8100	7100	0.745 1.645	
95 3.7402	95 3.7402	115 4.5275	25 1.1	0.6 0.024	RNA49/25	126 28000	329 73500	50.6	8100	7100	1.050 2.315	
95 3.7402	95 3.7402	115 4.5275	25 1.575	0.6 0.024	RNA49/25A	143 32100	308 69000	48.3	8000	7000	0.946 2.086	
95 3.7402	95 3.7402	120 4.7244	25 0.984	0.6 0.024	NK95/25A	114 25600	238 53500	37.3	7900	6900	0.803 1.770	
100 3.937	100 3.937	120 4.7244	25 1.378	0.6 0.024	NK100/25A	83.6 18600	163 36300	25.9	7800	6700	0.530 1.168	
100 3.937	100 3.937	120 4.7244	25 1.777	0.6 0.024	RNA49/25	118 26100	230 51300	36.0	7800	6700	0.715 1.578	
100 3.937	100 3.937	120 4.7244	25 1.1	0.6 0.024	NK100/25A	118 26100	230 51300	39.1	7800	6700	0.715 1.578	
100 3.937	100 3.937	120 4.7244	25 1.575	0.6 0.024	RNA49/25A	159 35700	416 92500	63.0	7800	6700	1.290 2.879	
105 4.1329	105 4.1329	125 4.9213	26 1.024	0.6 0.024	NK105/25A	52.2 11700	127 28200	19.9	7600	6600	0.395 0.871	

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