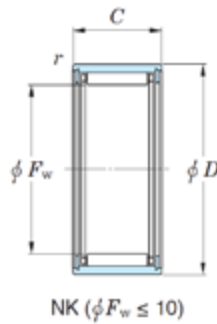


Machined Type without Inner Ring

NK Series - Metric

Koyo

Finer Power Transmissions P/L | www.finerpt.com



| Shaft dia. | Boundary dimensions(mm) | | | Bearing No. | Basic load ratings(kN) | | Fatigue load limit(kN) | Limiting speeds(min-1) | | Mass(kg) |
|------------|-------------------------|----|----|-------------|------------------------|------|------------------------|------------------------|-------------|----------|
| | Fw | D | C | | Cr | COr | | Cu | Grease lub. | |
| 8 | 8 | 15 | 12 | NK8/12 | 4.57 | 4.89 | 0.74 | 26 000 | 41 000 | 0.011 |
| | 8 | 15 | 16 | NK8/16 | 5.22 | 5.78 | 0.88 | 26 000 | 41 000 | 0.013 |
| 10 | 10 | 17 | 12 | NK10/12 | 5.4 | 6.43 | 0.980 | 25000 | 39000 | 0.015 |
| | 10 | 17 | 16 | NK10/16TN | 5.3 | 6.27 | 0.94 | 25 000 | 39 000 | 0.015 |
| 12 | 12 | 19 | 12 | NK12/12 | 6.86 | 7.6 | 1.15 | 19 000 | 30 000 | 0.013 |
| | 12 | 19 | 16 | NK12/16 | 6.78 | 9.03 | 1.4 | 24 000 | 37 000 | 0.018 |
| 14 | 14 | 22 | 16 | NK14/16 | 12.4 | 14.8 | 2.25 | 16 000 | 24 000 | 0.023 |
| | 14 | 22 | 20 | NK14/20 | 14.7 | 18.4 | 2.9 | 16 000 | 24 000 | 0.028 |
| 15 | 15 | 23 | 16 | NK15/16 | 12.4 | 15 | 2.3 | 15000 | 24000 | 0.024 |
| | 15 | 23 | 20 | NK15/20 | 14.7 | 18.6 | 2.95 | 15 000 | 24 000 | 0.031 |
| 16 | 16 | 24 | 16 | NK16/16 | 15.4 | 20.2 | 2.5 | 18 000 | 28 000 | 0.025 |
| | 16 | 24 | 20 | NK16/20 | 16.1 | 21.3 | 3.2 | 18000 | 28000 | 0.036 |
| 17 | 17 | 25 | 16 | NK17/16 | 13.6 | 17.5 | 2.7 | 17000 | 27000 | 0.027 |
| | 17 | 25 | 20 | NK17/20 | 15.4 | 20.4 | 3.25 | 17000 | 27000 | 0.034 |
| 18 | 18 | 26 | 16 | NK18/16 | 13.6 | 17.7 | 2.7 | 16 000 | 25 000 | 0.028 |
| 19 | 19 | 27 | 16 | NK19/16 | 14.1 | 19 | 2.9 | 15 000 | 24 000 | 0.029 |
| 20 | 20 | 28 | 16 | NK20/16 | 14.1 | 19.1 | 2.9 | 14 000 | 22 000 | 0.03 |
| | 20 | 28 | 20 | NK20/20 | 17.5 | 25.3 | 4 | 14 000 | 22 000 | 0.038 |
| 21 | 21 | 29 | 16 | NK21/16 | 15.3 | 21.6 | 3.3 | 14000 | 21000 | 0.032 |
| | 21 | 29 | 20 | NK21/20 | 18.1 | 26.9 | 4.25 | 14000 | 21000 | 0.040 |
| 22 | 22 | 30 | 16 | NK22/16 | 15.2 | 21.7 | 3.3 | 13 000 | 20 000 | 0.033 |
| | 22 | 30 | 20 | NK22/20 | 18 | 27 | 4.3 | 13 000 | 20 000 | 0.041 |
| 24 | 24 | 32 | 16 | NK24/16 | 16.2 | 24.3 | 3.7 | 12 00 | 12 000 | 0.035 |
| | 24 | 32 | 20 | NK24/20 | 19.3 | 30.3 | 4.8 | 12 000 | 18 000 | 0.045 |
| 25 | 25 | 33 | 16 | NK25/16 | 16.1 | 24.4 | 3.75 | 11 000 | 17 000 | 0.037 |
| | 25 | 33 | 20 | NK25/20 | 19.1 | 30.4 | 30.4 | 11 000 | 17 000 | 0.047 |
| 26 | 26 | 34 | 16 | NK26/16 | 16.6 | 25.7 | 3.95 | 11 000 | 17 000 | 0.039 |
| | 26 | 34 | 20 | NK26/20 | 19.7 | 32 | 5.05 | 11 000 | 17 000 | 0.048 |
| 28 | 28 | 37 | 20 | NK28/20 | 22.6 | 34.4 | 5.5 | 10 000 | 16 000 | 0.057 |
| | 28 | 37 | 30 | NK28/30 | 29 | 53.8 | 8.3 | 10 000 | 16 000 | 0.088 |
| 29 | 29 | 38 | 20 | NK29/20 | 23.4 | 36.4 | 5.8 | 9 800 | 15 000 | 0.059 |
| | 29 | 38 | 30 | NK29/30 | 29.8 | 56.4 | 8.7 | 9 700 | 15 000 | 0.09 |
| 30 | 30 | 40 | 20 | NK30/20 | 24.2 | 38.3 | 6.1 | 9 500 | 15 000 | 0.071 |
| | 30 | 40 | 30 | NK30/30 | 34.7 | 61 | 9.45 | 9 500 | 15 000 | 0.107 |
| 32 | 32 | 42 | 20 | NK32/20 | 24.8 | 40.4 | 6.45 | 8 800 | 14 000 | 0.074 |
| | 32 | 42 | 30 | NK32/30 | 35.6 | 64.3 | 9.95 | 8 800 | 14 000 | 0.112 |
| 35 | 35 | 45 | 20 | NK35/20 | 26.1 | 44.4 | 7.05 | 8 000 | 12 000 | 0.081 |
| | 35 | 45 | 30 | NK35/30 | 37.4 | 70.6 | 11 | 8 000 | 12 000 | 0.122 |
| 37 | 37 | 47 | 30 | NK37/30 | 38.2 | 73.9 | 11.5 | 7 600 | 12 000 | 0.128 |
| 40 | 40 | 50 | 20 | NK40/20 | 27.8 | 50.4 | 8.05 | 7000 | 11000 | 0.089 |
| | 40 | 50 | 30 | NK40/30 | 40 | 80.2 | 12.4 | 7000 | 11000 | 0.137 |

TN = Poly Cage

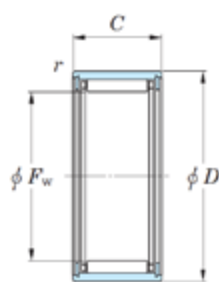
Every effort has been taken to ensure that the data listed in this catalogue is correct. Finer Power Transmissions P/L will not accept liability for any damage or loss caused as a result of the data in this catalogue.

Machined Type without Inner Ring

NK Series - Metric

Koyo

Finer Power Transmissions P/L | www.finerpt.com



NK ($\phi F_w \leq 10$)

| Shaft dia. | Boundary dimensions(mm) | | | Bearing No. | Basic load ratings(kN) | | Fatigue load limit(kN) | Limiting speeds(min-1) | | Mass(kg) |
|------------|-------------------------|-----|----|-------------|------------------------|------|------------------------|------------------------|----------|----------|
| | Fw | D | C | | Cr | C0r | Cu | Grease lub. | Oil lub. | |
| 42 | 42 | 52 | 20 | NK42/20 | 28.3 | 52.4 | 8.35 | 6600 | 10000 | 0.085 |
| | 42 | 52 | 30 | NK42/30 | 40.7 | 83.5 | 13.5 | 6600 | 10000 | 0.141 |
| | 42 | 52 | 30 | NK42/30 | 40.7 | 83.5 | 13 | 6 600 | 10 000 | 0.141 |
| 45 | 45 | 55 | 20 | NK45/20 | 29.5 | 56.4 | 9 | 6100 | 9400 | 0.100 |
| | 45 | 55 | 30 | NK45/30 | 42.3 | 89.8 | 13.9 | 6100 | 9400 | 0.151 |
| 47 | 47 | 57 | 20 | NK47/20 | 30 | 58.5 | 9.3 | 5900 | 9000 | 0.104 |
| 50 | 50 | 62 | 25 | NK50/25 | 40.7 | 79.3 | 12.5 | 5500 | 8500 | 0.171 |
| 55 | 55 | 68 | 35 | NK55/35 | 62.3 | 129 | 20 | 5000 | 7800 | 0.293 |
| 60 | 60 | 72 | 25 | NK60/25 | 44.3 | 94 | 14.9 | 4400 | 7000 | 0.202 |
| | 60 | 72 | 35 | NK60/35 | 59.9 | 139 | 21.5 | 4400 | 7000 | 0.286 |
| 65 | 65 | 78 | 35 | NK65/35 | 65.2 | 144 | 22.4 | 4 200 | 6 500 | 0.298 |
| 70 | 70 | 85 | 25 | NK70/25 | 43.6 | 87.9 | 16.6 | 3 900 | 6 000 | 0.298 |
| 75 | 75 | 92 | 25 | NK75/25 | 43.7 | 90.2 | 19 | 3 600 | 5 600 | 0.364 |
| 80 | 80 | 95 | 35 | NK80/35 | 79.7 | 184 | 28.7 | 3400 | 5300 | 0.380 |
| 85 | 85 | 105 | 25 | NK85/25 | 76.4 | 137 | 22.2 | 3 300 | 5 000 | 0.506 |
| | 85 | 105 | 35 | NK85/35 | 108 | 214 | 34.7 | 3 300 | 5 000 | 0.61 |
| 90 | 90 | 110 | 25 | NK90/25 | 79.5 | 147 | 23.8 | 3100 | 4700 | 0.450 |
| 100 | 100 | 120 | 26 | NK100/26 | 83.6 | 163 | 25.8 | 2 800 | 4 200 | 0.53 |
| | 100 | 120 | 36 | NK100/36 | 118 | 254 | 39.1 | 2 800 | 4 200 | 0.658 |
| 110 | 110 | 130 | 30 | NK110/30 | 103 | 220 | 33.6 | 2 500 | 3 800 | 0.66 |
| | 110 | 130 | 40 | NK110/40 | 132 | 301 | 45.7 | 2 500 | 3 800 | 0.9 |