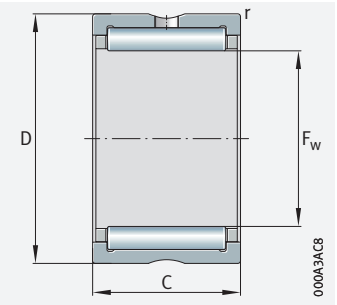
# Needle roller bearings with ribs

Without inner ring
Open




*NK, NKS, RNA49, RNA69*

## $F_w$ = 20 – 29 mm

| Main dimensions | | | Basic load ratings | | Fatigue limit load | Limiting speed | Speed rating | Mass | Designation |
|---|---|---|---|---|---|---|---|---|---|
| $F_w$ | D | C | dyn. $C_r$ | stat. $C_{0r}$ | $C_{ur}$ | $n_G$ | $n_{\vartheta r}$ | m | ➤*936*\|*1.12* ➤*937*\|*1.13* X-life ➤*930* |
| | | | N | N | N | $min^{-1}$ | $min^{-1}$ | ≈ g | |
| **20** | 28 | 16 | 18 500 | 23 900 | 4 100 | 21 100 | 12 100 | 28,4 | **NK20/16-D-XL** |
| | 28 | 16 | 14 600 | 17 500 | 3 300 | 21 100 | 13 200 | 27 | **NK20/16-XL** |
| | 28 | 20 | 18 600 | 23 800 | 4 200 | 21 100 | 12 900 | 33,9 | **NK20/20-XL** |
| | 28 | 13 | 12 000 | 13 600 | 2 470 | 21 100 | 12 000 | 21,7 | **RNA4902-XL** |
| | 28 | 23 | 19 500 | 25 500 | 4 550 | 21 100 | 11 700 | 39,7 | **RNA6902-XL** |
| | 32 | 20 | 26 000 | 25 000 | 4 500 | 20 000 | 11 800 | 48,7 | **NKS20-XL** |
| **21** | 29 | 16 | 15 200 | 18 700 | 3 500 | 20 600 | 12 600 | 28,1 | **NK21/16-XL** |
| | 29 | 20 | 19 300 | 25 500 | 4 500 | 20 600 | 12 300 | 35,2 | **NK21/20-XL** |
| **22** | 30 | 16 | 15 800 | 19 900 | 3 750 | 20 000 | 12 000 | 30 | **NK22/16-XL** |
| | 30 | 20 | 20 000 | 27 000 | 4 800 | 20 000 | 11 700 | 37 | **NK22/20-XL** |
| | 30 | 13 | 12 400 | 14 600 | 2 650 | 20 000 | 10 900 | 22,2 | **RNA4903-XL** |
| | 30 | 23 | 21 100 | 29 000 | 5 200 | 20 000 | 10 500 | 42,4 | **RNA6903-XL** |
| | 35 | 20 | 27 500 | 28 000 | 5 000 | 18 500 | 10 900 | 61,5 | **NKS22-XL** |
| **24** | 32 | 16 | 16 900 | 22 300 | 4 200 | 18 500 | 11 000 | 31,9 | **NK24/16-XL** |
| | 32 | 20 | 21 400 | 30 500 | 5 400 | 18 500 | 10 700 | 40 | **NK24/20-XL** |
| | 37 | 20 | 29 500 | 31 000 | 5 500 | 17 200 | 10 100 | 65,5 | **NKS24-XL** |
| **25** | 33 | 16 | 16 800 | 22 400 | 4 200 | 17 800 | 10 700 | 32,6 | **NK25/16-XL** |
| | 33 | 20 | 21 300 | 30 500 | 5 400 | 17 800 | 10 400 | 42 | **NK25/20-XL** |
| | 37 | 17 | 23 700 | 25 500 | 4 700 | 16 900 | 9 900 | 52,3 | **RNA4904-XL** |
| | 37 | 30 | 40 500 | 51 000 | 9 200 | 16 900 | 9 500 | 100 | **RNA6904-XL** |
| | 38 | 20 | 31 000 | 33 500 | 5 900 | 16 600 | 9 700 | 68,1 | **NKS25-XL** |
| **26** | 34 | 16 | 17 300 | 23 600 | 4 450 | 17 200 | 10 300 | 34 | **NK26/16-XL** |
| | 34 | 20 | 22 000 | 32 000 | 5 700 | 17 200 | 10 100 | 42 | **NK26/20-XL** |
| **28** | 37 | 20 | 29 000 | 41 500 | 7 500 | 15 800 | 8 800 | 58 | **NK28/20-D-XL** |
| | 37 | 20 | 24 800 | 34 000 | 6 000 | 15 800 | 9 300 | 52,2 | **NK28/20-XL** |
| | 37 | 30 | 37 000 | 57 000 | 10 700 | 15 800 | 9 000 | 82 | **NK28/30-XL** |
| | 39 | 17 | 26 000 | 29 500 | 5 400 | 15 300 | 8 600 | 50,2 | **RNA49/22-XL** |
| | 39 | 30 | 42 000 | 55 000 | 10 000 | 15 300 | 8 400 | 98 | **RNA69/22-XL** |
| | 42 | 20 | 32 500 | 36 500 | 6 500 | 15 100 | 8 900 | 83,6 | **NKS28-XL** |
| **29** | 38 | 20 | 27 500 | 39 000 | 7 000 | 15 300 | 8 700 | 50 | **NK29/20-TV-XL** |
| | 38 | 30 | 37 000 | 57 000 | 10 700 | 15 300 | 8 800 | 84,3 | **NK29/30-XL** |

***medias*** *https://www.schaeffler.de/std/1F9A*

[1] For unsealed needle roller bearings, dimensionally matched sealing rings of series G or SD can be used to provide protection against contamination.