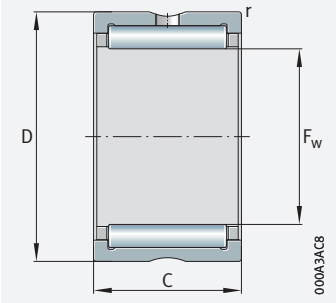
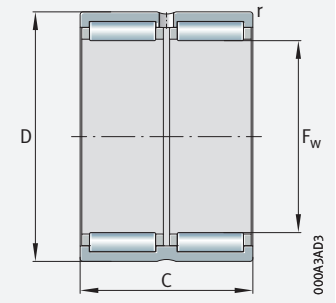
# Needle roller bearings with ribs

## Without inner ring
## Open




*NK, NKS, RNA49, RNA69*




*RNA69..-ZW*

## $F_w$ = 30 – 42 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 | |
| **30** | 40 | 20 | 27 500 | 35 500 | 7 400 | 14 800 | 8 900 | 61 | **NK30/20-TW-XL** |
| | 40 | 20 | 28 000 | 41 000 | 7 300 | 14 800 | 8 500 | 61 | **NK30/20-TV-XL** |
| | 40 | 30 | 42 000 | 69 000 | 12 900 | 14 800 | 8 200 | 92,4 | **NK30/30-TV-XL** |
| | 42 | 17 | 26 500 | 31 500 | 5 800 | 14 400 | 8 100 | 61 | **RNA4905-XL** |
| | 42 | 30 | 44 000 | 59 000 | 10 800 | 14 400 | 7 900 | 112 | **RNA6905-XL** |
| | 45 | 22 | 36 500 | 40 000 | 7 000 | 14 000 | 8 500 | 104 | **NKS30-XL** |
| **32** | 42 | 20 | 29 500 | 44 500 | 8 000 | 14 000 | 8 000 | 64 | **NK32/20-TV-XL** |
| | 42 | 30 | 39 000 | 63 000 | 11 900 | 14 000 | 8 200 | 102 | **NK32/30-XL** |
| | 45 | 17 | 27 500 | 33 500 | 6 200 | 13 600 | 7 600 | 73,2 | **RNA49/28-XL** |
| | 45 | 30 | 45 500 | 63 000 | 11 600 | 13 600 | 7 400 | 135 | **RNA69/28-XL** |
| | 47 | 22 | 38 000 | 43 500 | 7 600 | 13 200 | 8 000 | 110 | **NKS32-XL** |
| **35** | 45 | 20 | 31 000 | 48 500 | 8 600 | 12 900 | 7 400 | 69,4 | **NK35/20-TV-XL** |
| | 45 | 30 | 46 000 | 81 000 | 15 300 | 12 900 | 7 100 | 106 | **NK35/30-TV-XL** |
| | 47 | 17 | 28 500 | 35 500 | 6 600 | 12 600 | 6 900 | 69,4 | **RNA4906-XL** |
| | 47 | 30 | 49 000 | 71 000 | 13 100 | 12 600 | 6 600 | 126 | **RNA6906-XL** |
| | 50 | 22 | 39 500 | 47 000 | 8 200 | 12 300 | 7 400 | 118 | **NKS35-XL** |
| **37** | 47 | 20 | 34 000 | 56 000 | 10 000 | 12 300 | 6 800 | 83 | **NK37/20-D-XL** |
| | 47 | 20 | 28 000 | 43 500 | 7 800 | 12 300 | 7 400 | 77 | **NK37/20-XL** |
| | 47 | 30 | 42 000 | 73 000 | 13 700 | 12 300 | 7 200 | 113 | **NK37/30-XL** |
| | 52 | 22 | 41 500 | 50 000 | 8 800 | 11 700 | 7 100 | 123 | **NKS37-XL** |
| **38** | 48 | 20 | 29 000 | 45 000 | 8 100 | 12 000 | 7 200 | 79,4 | **NK38/20-XL** |
| | 48 | 30 | 43 000 | 76 000 | 14 300 | 12 000 | 7 000 | 116 | **NK38/30-XL** |
| **40** | 50 | 20 | 33 500 | 56 000 | 10 000 | 11 400 | 6 500 | 78 | **NK40/20-TV-XL** |
| | 50 | 30 | 44 000 | 79 000 | 14 900 | 11 400 | 6 700 | 125 | **NK40/30-XL** |
| | 52 | 20 | 34 500 | 47 500 | 9 100 | 11 100 | 6 400 | 89,1 | **RNA49/32-XL** |
| | 52 | 36 | 53 000 | 82 000 | 15 400 | 11 100 | 6 500 | 162 | **RNA69/32-ZW-XL** |
| | 55 | 22 | 42 500 | 54 000 | 9 400 | 10 900 | 6 600 | 129 | **NKS40-XL** |
| **42** | 52 | 20 | 30 000 | 49 000 | 8 800 | 10 900 | 6 600 | 85,8 | **NK42/20-XL** |
| | 52 | 30 | 44 500 | 82 000 | 15 500 | 10 900 | 6 400 | 130 | **NK42/30-XL** |
| | 55 | 20 | 35 500 | 50 000 | 9 600 | 10 700 | 6 100 | 107 | **RNA4907-XL** |
| | 55 | 36 | 54 000 | 86 000 | 16 200 | 10 700 | 6 200 | 193 | **RNA6907-ZW-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.