

# RNA 2204.2RSSupport roller (yoke-type track roller), without flange rings and inner ring, with integral sealing

## Support roller (yoke-type track roller), without flange rings and inner ring, with integral sealing

Support rollers (yoke-type track rollers) are designed to run on all types of tracks and to be used in cam drives, conveyor systems, etc. They are based on a single row needle roller bearing without an inner ring, intended for applications where hardened and ground raceways can be provided on the pin or shaft. They have a thick-walled outer ring with a crowned running surface and are supplied sealed and ready-to-mount.

- High radial load carrying capacity
- Able to withstand shock loads
- Long service life
- Ready to mount
- Integral sealing prolongs bearing service life

## Overview

### Dimensions

| | |
|---|---|
| Functional outside diameter | 47 mm |
| Bore diameter | 25 mm |
| Width, total | 17.8 mm |
| Width, outer ring | 17.8 mm |

### Performance

| | |
|---|---|
| Basic dynamic load rating | 16.1 kN |
| Basic static load rating | 18 kN |
| Limiting speed | 4 000 r/min |

### Properties

| | |
|---|---|
| Bearing part | Track roller without inner ring |
| Rolling elements | Needle rollers |
| Number of rows | 1 |
| Outer ring profile | Crowned |
| Axial guidance of outer ring | Yes |
| Number of flanges, outer ring | 2 |
| Cage | With |

| | |
|---|---|
| Radial internal clearance | Not applicable |
| Tolerance class | Other |
| Material, bearing | Bearing steel |
| Coating | Without |
| Sealing | Seal on both sides |
| Sealing type | Contact |
| Lubricant | Grease |
| Relubrication feature | Without |

# Technical Specification




## Dimensions

| | | |
|---|---|---|
| D | 47 mm | Outside diameter |
| $F_w$ | 25 mm | Diameter under rollers |
| C | 17.8 mm | Width |
| $D_1$ | 33 mm | Recess diameter outer ring shoulder |
| $r_{1,2}$ | min. 1 mm | Chamfer dimension outer ring |

## Calculation data

| | | |
|---|---|---|
| Basic dynamic load rating | C | 16.1 kN |
| Basic static load rating | $C_0$ | 18 kN |
| Fatigue load limit | $P_u$ | 2.16 kN |
| Maximum dynamic radial load | $F_r$ | max. 17.6 kN |
| Maximum static radial load | $F_{0r}$ | max. 25.5 kN |
| Limiting speed | | 4 000 r/min |

## Mass

| | |
|---|---|
| Mass support roller | 0.15 kg |

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