



NUTR 2052 A Support roller (yoke-type track roller) with flange rings, integral sealing and

relubrication feature Support roller (yoke-type track roller) with flange rings, integral sealing and relubrication feature

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 double row full complement cylindrical roller bearing with an inner ring and have a thick-walled outer ring with an improved crowned running surface. They are supplied sealed and ready-to-mount. The inner ring contains a lubrication hole to facilitate relubrication.

- High radial load carrying capacity
- Accommodate relatively heavy axial loads due to skew or tilting
- Long service life
- Ready to mount
- Sealed for increased reliability, with relubrication feature

Overview

Dimensions

| | |
|-----------------------------|-------|
| Functional outside diameter | 52 mm |
| Bore diameter | 20 mm |
| Width, total | 25 mm |
| Width, outer ring | 24 mm |

Performance

| | |
|---------------------------|-------------|
| Basic dynamic load rating | 31.9 kN |
| Basic static load rating | 39 kN |
| Limiting speed | 3 800 r/min |

Properties

| | |
|-------------------------------|-----------------------|
| Bearing part | Complete track roller |
| Rolling elements | Cylindrical rollers |
| Number of rows | 2 |
| Outer ring profile | Crowned |
| Axial guidance of outer ring | Yes |
| Number of flanges, outer ring | 2 |
| Cage | Without |
| Radial internal clearance | Between C2 and CN |
| Tolerance class | Other |

| | |
|-----------------------|--------------------|
| Material, bearing | Bearing steel |
| Coating | Without |
| Sealing | Seal on both sides |
| Sealing type | Labyrinth |
| Lubricant | Grease |
| Relubrication feature | With |

Technical Specification



Dimensions

| | | |
|------------------|-------------|------------------------------------|
| D | 52 mm | Outside diameter |
| d | 20 mm | Bore diameter |
| C | 24 mm | Width outer ring |
| B | 25 mm | Width inner ring |
| d ₁ | 27 mm | Outside diameter flange ring |
| r _{1,2} | min. 1 mm | Chamfer dimension outer ring |
| r _{3,4} | min. 0.5 mm | Chamfer dimension flange ring bore |

Calculation data

| | | |
|------------------------------|-----------------|--------------|
| Basic dynamic load rating | C | 31.9 kN |
| Basic static load rating | C ₀ | 39 kN |
| Fatigue load limit | P _u | 4.55 kN |
| Maximum dynamic radial loads | F _r | max. 30 kN |
| Maximum static radial loads | F _{0r} | max. 42.5 kN |
| Limiting speed | | 3 800 r/min |

Mass

| | |
|---------------------|---------|
| Mass support roller | 0.32 kg |
|---------------------|---------|

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