

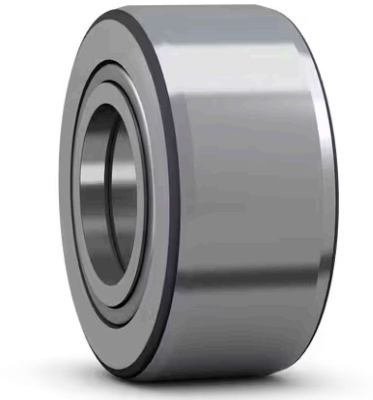


Image may differ from product. See technical specification for details.

## NUTR 50 A

**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 | 90 mm |
| Bore diameter               | 50 mm |
| Width, total                | 32 mm |
| Width, outer ring           | 30 mm |

Performance

|                           |             |
|---------------------------|-------------|
| Basic dynamic load rating | 58.3 kN     |
| Basic static load rating  | 78 kN       |
| Limiting speed            | 1 600 r/min |

Properties

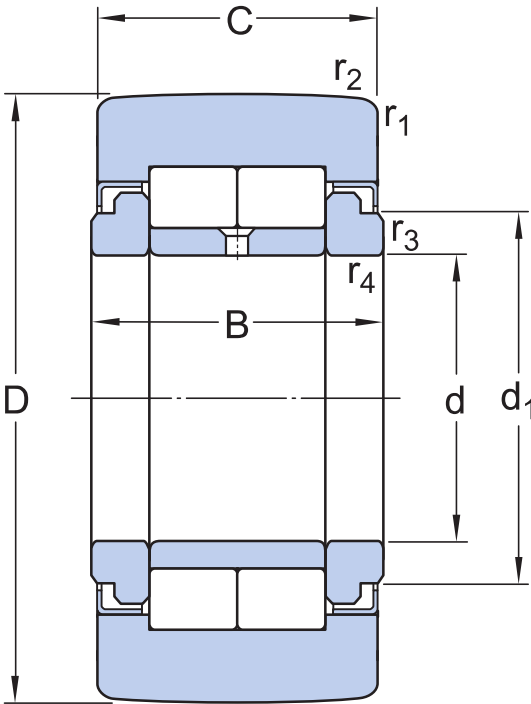
|                               |                       |
|-------------------------------|-----------------------|
| Bearing part                  | Complete track roller |
| Rolling elements              | Cylindrical rollers   |
| Number of rows                | 2                     |
| Outer ring 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                  |

Logistics

|                    |             |
|--------------------|-------------|
| Product net weight | 0.95 kg     |
| eClass code        | 23-05-09-03 |
| UNSPSC code        | 31171512    |



Technical specification



Dimensions

|                  |             |                                    |
|------------------|-------------|------------------------------------|
| D                | 90 mm       | Outside diameter                   |
| d                | 50 mm       | Bore diameter                      |
| C                | 30 mm       | Width outer ring                   |
| B                | 32 mm       | Width inner ring                   |
| d <sub>1</sub>   | 59.8 mm     | Outside diameter flange ring       |
| r <sub>1,2</sub> | min. 1.1 mm | Chamfer dimension outer ring       |
| r <sub>3,4</sub> | min. 0.6 mm | Chamfer dimension flange ring bore |

Calculation data

|                              |                 |              |
|------------------------------|-----------------|--------------|
| Basic dynamic load rating    | C               | 58.3 kN      |
| Basic static load rating     | C <sub>0</sub>  | 78 kN        |
| Fatigue load limit           | P <sub>u</sub>  | 9.65 kN      |
| Maximum dynamic radial loads | F <sub>r</sub>  | max. 32.5 kN |
| Maximum static radial loads  | F <sub>0r</sub> | max. 47.5 kN |
| Limiting speed               |                 | 1 600 r/min  |

## Tolerances and clearances

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### GENERAL SUPPORT ROLLER SPECIFICATIONS

- [Tolerances: Normal, Other](#)
- [Radial internal clearance: table](#)

## BEARING INTERFACES

- [Seat tolerances for standard conditions](#)
- [Tolerances and resultant fit](#)

More Information

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                   |
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| <div> <b>Product details</b></div> <div><div><a href="#">Designs and variants</a></div><div><a href="#">Lubrication</a></div><div><a href="#">General support roller specifications</a></div><div><a href="#">Loads</a></div><div><a href="#">Temperature limits</a></div><div><a href="#">Speed limits</a></div><div><a href="#">Design considerations</a></div><div><a href="#">Mounting</a></div><div><a href="#">Designation system</a></div></div> | <div><div> <b>Engineering information</b></div><div><div><a href="#">Principles of rolling bearing selection</a></div><div><a href="#">General bearing knowledge</a></div><div><a href="#">Bearing selection process</a></div><div><a href="#">Bearing interfaces</a></div><div><a href="#">Lubrication</a></div><div><a href="#">External sealing, mounting and dismounting</a></div><div><a href="#">Bearing failure and how to prevent it</a></div></div></div> | <div><div> <b>Tools</b></div><div><div><a href="#">SKF Product select</a></div><div><a href="#">Bearing Frequency Calculator</a></div><div><a href="#">SimPro Quick</a></div><div><a href="#">LubeSelect for SKF greases</a></div><div><a href="#">Heater selection tool</a></div></div></div> |
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