



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

## RSTO 6 TN

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

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 ready-to-mount. The outer ring and the needle roller and cage assembly can be mounted separately.

- High radial load carrying capacity
- Able to withstand shock loads
- Long service life
- Ready to mount
- Separable design

## Overview

### Dimensions

|                             |        |
|-----------------------------|--------|
| Functional outside diameter | 19 mm  |
| Bore diameter               | 10 mm  |
| Width, total                | 9.8 mm |
| Width, outer ring           | 9.8 mm |

### Performance

|                           |             |
|---------------------------|-------------|
| Basic dynamic load rating | 3.74 kN     |
| Basic static load rating  | 4.5 kN      |
| Limiting speed            | 7 000 r/min |

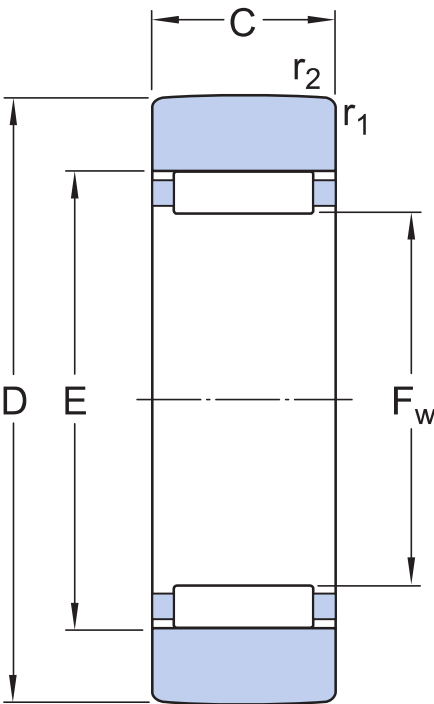
### Properties

|                               |                                 |
|-------------------------------|---------------------------------|
| Bearing part                  | Track roller without inner ring |
| Rolling elements              | Needle rollers                  |
| Number of rows                | 1                               |
| Outer ring profile            | Crowned                         |
| Axial guidance of outer ring  | No                              |
| Number of flanges, outer ring | 0                               |
| Cage                          | With                            |
| Radial internal clearance     | Not applicable                  |
| Tolerance class               | Other                           |
| Material, bearing             | Bearing steel                   |
| Coating                       | Without                         |
| Sealing                       | Without                         |
| Lubricant                     | Grease                          |
| Relubrication feature         | Without                         |

### Logistics

|                    |             |
|--------------------|-------------|
| Product net weight | 0.014 kg    |
| eClass code        | 23-05-09-03 |
| UNSPSC code        | 31171512    |

Technical specification



Dimensions

|                  |             |                              |
|------------------|-------------|------------------------------|
| D                | 19 mm       | Outside diameter             |
| F <sub>w</sub>   | 10 mm       | Diameter under rollers       |
| C                | 9.8 mm      | Width                        |
| E                | 13 mm       | Raceway diameter outer ring  |
| r <sub>1,2</sub> | min. 0.3 mm | Chamfer dimension outer ring |

Calculation data

|                             |                 |              |
|-----------------------------|-----------------|--------------|
| Basic dynamic load rating   | C               | 3.74 kN      |
| Basic static load rating    | C <sub>0</sub>  | 4.5 kN       |
| Fatigue load limit          | P <sub>u</sub>  | 0.5 kN       |
| Maximum dynamic radial load | F <sub>r</sub>  | max. 4.25 kN |
| Maximum static radial load  | F <sub>0r</sub> | max. 6.1 kN  |
| Limiting speed              |                 | 7 000 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

|   |  |  |
|---|--|--|
| <div> <b>Product details</b></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> <b>Engineering information</b></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> <b>Tools</b></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> |
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