

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

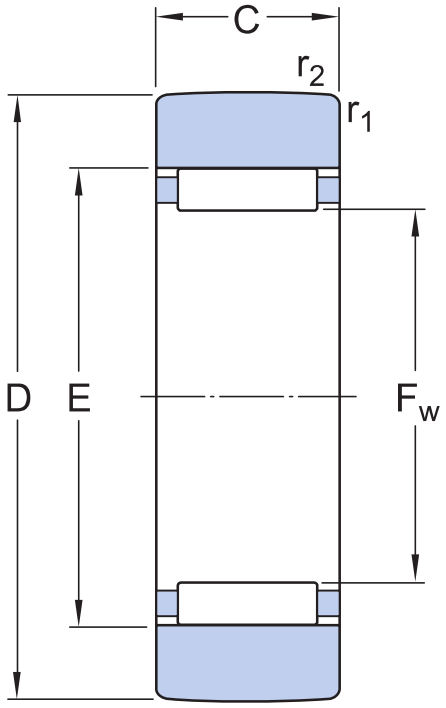
Properties

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_w	10 mm	Diameter under rollers
C	9.8 mm	Width
E	13 mm	Raceway diameter outer ring
$r_{1,2}$	min. 0.3 mm	Chamfer dimension outer ring

Calculation data

Basic dynamic load rating	C	3.74 kN
Basic static load rating	C_0	4.5 kN
Fatigue load limit	P_u	0.5 kN
Maximum dynamic radial load	F_r	max. 4.25 kN
Maximum static radial load	F_{0r}	max. 6.1 kN
Limiting speed		7 000 r/min

Tolerances and clearances

GENERAL SUPPORT ROLLER SPECIFICATIONS

- Tolerances: Normal, Other
- Radial internal clearance: table

BEARING INTERFACES

- Seat tolerances for standard conditions
- Tolerances and resultant fit

More Information

Product details

- Designs and variants
- Lubrication
- General support roller specifications
- Loads
- Temperature limits
- Speed limits
- Design considerations
- Mounting
- Designation system

Engineering information

- Principles of rolling bearing selection
- General bearing knowledge
- Bearing selection process
- Bearing interfaces
- Lubrication
- External sealing, mounting and dismounting
- Bearing failure and how to prevent it

Tools

- SKF Product select
- Bearing Frequency Calculator
- SimPro Quick
- LubeSelect for SKF greases
- Heater selection tool

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