



RSTO 6 TN Support roller (yoke-type track roller), without flange rings and inner ring

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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

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

Mass

Mass support roller	0.012 kg
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