



RSTO 5 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	16 mm
Bore diameter	7 mm
Width, total	7.8 mm
Width, outer ring	7.8 mm

Performance

Basic dynamic load rating	2.51 kN
Basic static load rating	2.5 kN
Limiting speed	8 000 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	16 mm	Outside diameter
F_w	7 mm	Diameter under rollers
C	7.8 mm	Width
E	10 mm	Raceway diameter outer ring
$r_{1,2}$	min. 0.3 mm	Chamfer dimension outer ring

Calculation data

Basic dynamic load rating	C	2.51 kN
Basic static load rating	C_0	2.5 kN
Fatigue load limit	P_u	0.27 kN
Maximum dynamic radial load	F_r	max. 3.55 kN
Maximum static radial load	F_{0r}	max. 5 kN
Limiting speed		8 000 r/min

Mass

Mass support roller	0.008 kg
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