

STO 8 TNSupport roller (yoke-type track roller), without flange rings



Support roller (yoke-type track roller), without flange rings

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 with an inner ring. They have a thick-walled outer ring with a crowned running surface and are supplied ready-to-mount. The inner ring contains a lubrication hole to facilitate relubrication. The outer ring, the inner 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	24 mm
Bore diameter	8 mm
Width, total	10 mm
Width, outer ring	9.8 mm

Performance

Basic dynamic load rating	4.13 kN
Basic static load rating	5.4 kN
Limiting speed	7 000 r/min

Properties

Bearing part	Complete track roller
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	CN
Tolerance class	Other
Material, bearing	Bearing steel

Coating	Without
Sealing	Without
Lubricant	Grease
Relubrication feature	With

Technical Specification



Dimensions

D	24 mm	Outside diameter
d	8 mm	Bore diameter
C	9.8 mm	Width outer ring
B	10 mm	Width inner ring
E	15 mm	Raceway diameter outer ring
F	12 mm	Raceway diameter inner ring
r _{1,2}	min. 0.3 mm	Chamfer dimension outer ring
r _{3,4}	min. 0.3 mm	Chamfer dimension inner ring

Calculation data

Basic dynamic load rating	C	4.13 kN
Basic static load rating	C ₀	5.4 kN
Fatigue load limit	P _u	0.6 kN
Maximum dynamic radial load	F _r	max. 7.5 kN
Maximum static radial load	F _{0r}	max. 10.8 kN
Limiting speed		7 000 r/min

Mass

Mass support roller	0.026 kg
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