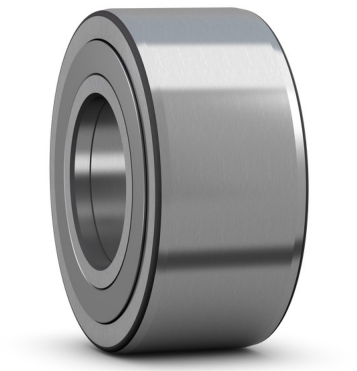


NATR 10 XSupport rollers (yoke-type track rollers) with flange rings and relubrication feature

Support rollers (yoke-type track rollers) with flange rings and relubrication feature

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 needle roller bearing with an inner ring. They have a thick-walled outer ring with a cylindrical running surface and are supplied ready-to-mount. A narrow gap between the outer ring and the pressed-on flange rings forms a gap-type seal. The inner ring contains a lubrication hole to facilitate relubrication.

- High radial load carrying capacity
- Accommodate axial loads due to skew or tilting
- Long service life
- Ready to mount
- Sealed for increased reliability, with relubrication feature

Overview

Dimensions

Functional outside diameter	30 mm
Bore diameter	10 mm
Width, total	15 mm
Width, outer ring	14 mm

Performance

Basic dynamic load rating	6.82 kN
Basic static load rating	6.4 kN
Limiting speed	4 500 r/min

Properties

Bearing part	Complete track roller
Rolling elements	Needle rollers
Number of rows	1
Outer ring profile	Cylindrical
Axial guidance of outer ring	Yes
Number of flanges, outer ring	2
Cage	With
Radial internal clearance	Between C2 and CN
Tolerance class	Other

Material, bearing	Bearing steel
Coating	Without
Sealing	Seal on both sides
Sealing type	Gap-type
Lubricant	Grease
Relubrication feature	With

Technical Specification



Dimensions

D	30 mm	Outside diameter
d	10 mm	Bore diameter
C	14 mm	Width outer ring
B	15 mm	Width inner ring
d_1	23.2 mm	Outside diameter flange ring
$r_{1,2}$	min. 0.6 mm	Chamfer dimension outer ring

Calculation data

Basic dynamic load rating	C	6.82 kN
Basic static load rating	C_0	6.4 kN
Fatigue load limit	P_u	0.75 kN
Maximum dynamic radial loads	F_r	max. 6 kN
Maximum static radial loads	F_{0r}	max. 8.65 kN
Limiting speed		4 500 r/min

Mass

Mass support roller	0.065 kg

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