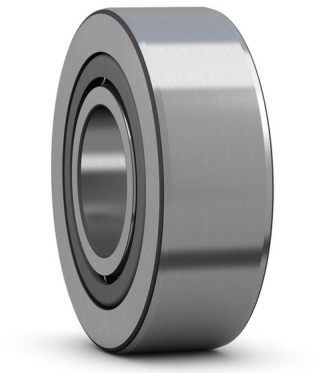

STO 20Support roller (yoke-type track roller), without flange rings

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	47 mm
Bore diameter	20 mm
Width, total	16 mm
Width, outer ring	15.8 mm

Performance

Basic dynamic load rating	16.1 kN
Basic static load rating	21.2 kN
Limiting speed	4 000 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	47 mm	Outside diameter
d	20 mm	Bore diameter
C	15.8 mm	Width outer ring
B	16 mm	Width inner ring
E	32 mm	Raceway diameter outer ring
F	25 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	16.1 kN
Basic static load rating	C_0	21.2 kN
Fatigue load limit	P_u	2.5 kN
Maximum dynamic radial load	F_r	max. 18.6 kN
Maximum static radial load	F_{0r}	max. 26.5 kN
Limiting speed		4 000 r/min

Mass

Mass support roller	0.15 kg

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