

Image may differ from product. See technical specification for details.

NA 2204.2RS

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

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 and have a thick-walled outer ring with a crowned running surface. They are supplied sealed and are ready-to-mount. The inner ring contains a

lubrication hole to facilitate relubrication. The inner ring can be mounted separately from the outer ring and roller and cage assembly.

- High radial load carrying capacity
- Able to withstand shock loads
- Ready to mount
- Separable design
- Integral sealing prolongs bearing service life

Overview

Dimensions

Functional outside diameter	47 mm
Bore diameter	20 mm
Width, total	18 mm
Width, outer ring	17.8 mm

Performance

Basic dynamic load rating	16.1 kN
Basic static load rating	18 kN
Limiting speed	4 000 r/min

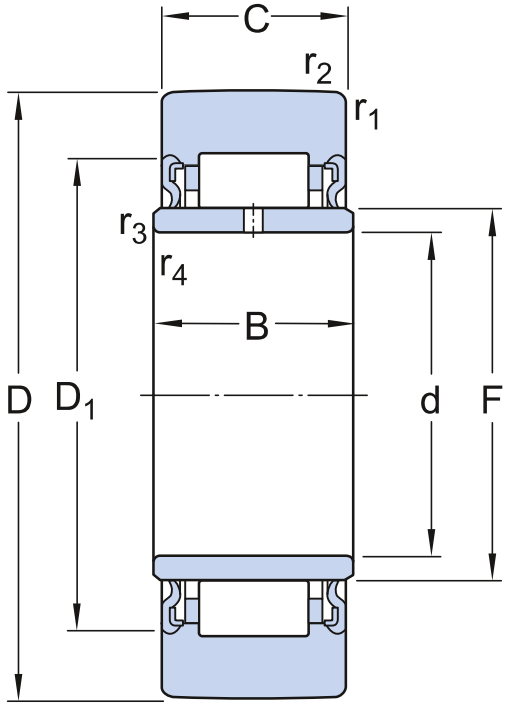
Properties

Bearing part	Complete track roller
Rolling elements	Needle rollers
Number of rows	1
Outer ring profile	Crowned
Axial guidance of outer ring	Yes
Number of flanges, outer ring	2
Cage	With
Radial internal clearance	CN
Tolerance class	Other
Material, bearing	Bearing steel
Coating	Without
Sealing	Seal on both sides
Sealing type	Contact
Lubricant	Grease
Relubrication feature	With

Logistics

Product net weight	0.174 kg
eClass code	23-05-09-03
UNSPSC code	31171512

Technical specification



Dimensions

D	47 mm	Outside diameter
d	20 mm	Bore diameter
C	17.8 mm	Width outer ring
B	18 mm	Width inner ring
D_1	33 mm	Recess diameter outer ring shoulder
F	25 mm	Raceway diameter inner ring
$r_{1,2}$	min. 1 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	18 kN
Fatigue load limit	P_u	2.16 kN
Maximum dynamic radial load	F_r	max. 17.6 kN
Maximum static radial load	F_{0r}	max. 25.5 kN
Limiting speed		4 000 r/min

Tolerances and clearances

GENERAL SUPPORT ROLLER SPECIFICATIONS

- Tolerances: Normal, Other
- Radial internal clearance: table

BEARING INTERFACES

- Seat tolerances for standard conditions
- Tolerances and resultant fit

More Information

Product details

- Designs and variants
- Lubrication
- General support roller specifications
- Loads
- Temperature limits
- Speed limits
- Design considerations
- Mounting
- Designation system

Engineering information

- Principles of rolling bearing selection
- General bearing knowledge
- Bearing selection process
- Bearing interfaces
- Lubrication
- External sealing, mounting and dismounting
- Bearing failure and how to prevent it

Tools

- SKF Product select
- Bearing Frequency Calculator
- SimPro Quick
- LubeSelect for SKF greases
- Heater selection tool

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