



RNA 22/8.2RS Support roller

(yoke-type track roller), without flange rings and inner ring, with

integral sealing

Support roller (yoke-type track roller), without flange rings and inner ring, 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 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 sealed and ready-to-mount.

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

Overview

Dimensions

Functional outside diameter	24 mm
Bore diameter	12 mm
Width, total	11.8 mm
Width, outer ring	11.8 mm

Performance

Basic dynamic load rating	4.68 kN
Basic static load rating	4.55 kN
Limiting speed	6 700 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	Yes
Number of flanges, outer ring	2
Cage	With

Radial internal clearance	Not applicable
Tolerance class	Other
Material, bearing	Bearing steel
Coating	Without
Sealing	Seal on both sides
Sealing type	Contact
Lubricant	Grease
Relubrication feature	Without

Technical Specification



Dimensions

D	24 mm	Outside diameter
F_w	12 mm	Diameter under rollers
C	11.8 mm	Width
D_1	18 mm	Recess diameter outer ring shoulder
$r_{1,2}$	min. 0.3 mm	Chamfer dimension outer ring

Calculation data

Basic dynamic load rating	C	4.68 kN
Basic static load rating	C_0	4.55 kN
Fatigue load limit	P_u	0.54 kN
Maximum dynamic radial load	F_r	max. 5.3 kN
Maximum static radial load	F_{0r}	max. 7.5 kN
Limiting speed		6 700 r/min

Mass

Mass support roller	0.029 kg
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