



# 361204 R Single row cam roller with crowned outer surface and seals on both sides

Single row cam roller with crowned outer surface and seals on both sides

Single row cam rollers, with seals on both sides, 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 deep groove ball bearing and have a thick-walled outer ring with a crowned running surface. They are supplied sealed and greased for the life of the bearing, and are ready-to-mount. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Run on all types of tracks, for use in cam drives, conveyor systems, etc. Crowned outer running surface
- Greased, sealed and ready to mount
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

## Overview

### Dimensions

Functional outside diameter	52 mm
Bore diameter	20 mm
Width	14 mm

### Performance

Basic dynamic load rating	11.4 kN
Basic static load rating	5.5 kN
Limiting speed	7 000 r/min

### Properties

Bearing part	Complete track roller
Rolling elements	Balls
Number of rows	1
Outer ring profile	Crowned
Axial guidance of outer ring	Yes
Number of flanges, outer ring	0
Cage	With
Radial internal	C3

clearance

Axial internal clearance	Not applicable
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Tolerance class	Normal (except crowned running surface)
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Material, bearing	Bearing steel
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Coating	Without
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Sealing	Seal on both sides
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Sealing type	Contact
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Lubricant	Grease
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Relubrication feature	Without
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## Technical Specification



### Dimensions

D	52 mm	Outside diameter
d	20 mm	Bore diameter
B	14 mm	Width
$d_1$	$\approx 28.8$ mm	Shoulder/recess diameter inner ring
$D_1$	$\approx 40.6$ mm	Recess diameter outer ring
R	400 mm	Profile running surface (crown) outer ring
$r_{1,2}$	min. 1 mm	Chamfer dimension

### Calculation data

Basic dynamic load rating	C	11.4 kN
Basic static load rating	$C_0$	5.5 kN
Fatigue load limit	$P_u$	0.232 kN
Maximum dynamic radial load	$F_r$	max. 7.5 kN
Maximum static radial load	$F_{0r}$	max. 10.6 kN
Limiting speed		7 000 r/min
Calculation factor	$f_0$	13.1

### Mass

Mass cam roller	0.15 kg
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