



# 305804 C-2Z Cam roller (yoke-type track roller) with crowned outside surface, integral sealing and

## relubrication feature

Cam roller (yoke-type track roller) with crowned outside surface, integral sealing and relubrication feature

These cam 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 double row angular contact ball bearings. They have a thick-walled outer ring with a crowned running surface prevents edge stresses under skewing. They are supplied greased, sealed and ready-to-mount. A lubrication hole in the inner ring facilitates relubrication.

- High radial load carrying capacity and relatively high speed capability
- Accommodate tilting moments
- Long service life
- Ready to mount
- Integral sealing, for increased reliability, with relubrication feature

## Overview

### Dimensions

Functional outside diameter	52 mm
Bore diameter	20 mm
Width	20.6 mm

### Performance

Basic dynamic load rating	17.8 kN
Basic static load rating	9.8 kN
Limiting speed	9 500 r/min

### Properties

Bearing part	Complete track roller
Rolling elements	Balls
Number of rows	2
Outer ring profile	Crowned
Axial guidance of outer ring	Yes
Number of flanges, outer ring	0

Cage	With
Radial internal clearance	Not applicable
Axial internal clearance	Normal
Tolerance class	Normal (except crowned running surface)
Material, bearing	Bearing steel
Coating	Without
Sealing	Shield on both sides
Sealing type	Non-contact
Lubricant	Grease
Relubrication feature	With

## Technical Specification



### Dimensions

D	52 mm	Outside diameter
d	20 mm	Bore diameter
B	20.6 mm	Width
$d_1$	$\approx 27.7$ mm	Shoulder/recess diameter inner ring
$D_1$	$\approx 40.9$ mm	Recess diameter outer ring
R	400 mm	Profile running surface (crown) outer ring
$r_{1,2}$	min. 1 mm	Chamfer dimension
a	28 mm	Distance pressure points

### Calculation data

Basic dynamic load rating	C	17.8 kN
Basic static load rating	$C_0$	9.8 kN
Fatigue load limit	$P_u$	0.45 kN
Maximum dynamic radial load	$F_r$	max. 8.3 kN
Maximum static radial load	$F_{0r}$	max. 12 kN
Limiting speed		9 500 r/min

### Mass

Mass cam roller	0.22 kg
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