



# 305704 C-2Z Cam roller (yoke-type track roller) with flat outside surface, integral sealing and relubrication feature

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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 flat running surface and 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	Cylindrical
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

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
$r_{1,2}$	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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