



# 305805 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 | 62 mm   |
| Bore diameter               | 25 mm   |
| Width                       | 20.6 mm |

### Performance

|                           |             |
|---------------------------|-------------|
| Basic dynamic load rating | 19.9 kN     |
| Basic static load rating  | 12.2 kN     |
| Limiting speed            | 8 000 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         | 62 mm             | Outside diameter                           |
| d         | 25 mm             | Bore diameter                              |
| B         | 20.6 mm           | Width                                      |
| $d_1$     | $\approx 32.7$ mm | Shoulder/recess diameter inner ring        |
| $D_1$     | $\approx 45.9$ mm | Recess diameter outer ring                 |
| R         | 400 mm            | Profile running surface (crown) outer ring |
| $r_{1,2}$ | min. 1 mm         | Chamfer dimension                          |
| a         | 30 mm             | Distance pressure points                   |

### Calculation data

|                             |          |              |
|-----------------------------|----------|--------------|
| Basic dynamic load rating   | C        | 19.9 kN      |
| Basic static load rating    | $C_0$    | 12.2 kN      |
| Fatigue load limit          | $P_u$    | 0.56 kN      |
| Maximum dynamic radial load | $F_r$    | max. 15.3 kN |
| Maximum static radial load  | $F_{0r}$ | max. 21.6 kN |
| Limiting speed              |          | 8 000 r/min  |

### Mass

|                 |         |
|-----------------|---------|
| Mass cam roller | 0.32 kg |
|-----------------|---------|

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