



# 361200 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 | 32 mm |
| Bore diameter               | 10 mm |
| Width                       | 9 mm  |

## Performance

|                           |              |
|---------------------------|--------------|
| Basic dynamic load rating | 4.68 kN      |
| Basic static load rating  | 2.04 kN      |
| Limiting speed            | 12 000 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 |
|--------------------------|----------------|

|                 |   |
|-----------------|---|
| Tolerance class | Normal (except crowned running surface) |
|-----------------|---|

|                   |               |
|-------------------|---------------|
| Material, bearing | Bearing steel |
|-------------------|---------------|

|         |         |
|---------|---------|
| Coating | Without |
|---------|---------|

|         |                    |
|---------|--------------------|
| Sealing | Seal on both sides |
|---------|--------------------|

|              |         |
|--------------|---------|
| Sealing type | Contact |
|--------------|---------|

|           |        |
|-----------|--------|
| Lubricant | Grease |
|-----------|--------|

|                       |         |
|-----------------------|---------|
| Relubrication feature | Without |
|-----------------------|---------|

## Technical Specification



### Dimensions

|           |             |  |
|-----------|-------------|--|
| D         | 32 mm       | Outside diameter                           |
| d         | 10 mm       | Bore diameter                              |
| B         | 9 mm        | Width                                      |
| $d_1$     | ≈ 17 mm     | Shoulder/recess diameter inner ring        |
| $D_1$     | ≈ 24.8 mm   | Recess diameter outer ring                 |
| R         | 400 mm      | Profile running surface (crown) outer ring |
| $r_{1,2}$ | min. 0.6 mm | Chamfer dimension                          |

### Calculation data

|                             |          |              |
|-----------------------------|----------|--------------|
| Basic dynamic load rating   | C        | 4.68 kN      |
| Basic static load rating    | $C_0$    | 2.04 kN      |
| Fatigue load limit          | $P_u$    | 0.085 kN     |
| Maximum dynamic radial load | $F_r$    | max. 3.45 kN |
| Maximum static radial load  | $F_{0r}$ | max. 5 kN    |
| Limiting speed              |          | 12 000 r/min |
| Calculation factor          | $f_0$    | 13.1         |

### Mass

|                 |         |
|-----------------|---------|
| Mass cam roller | 0.04 kg |
|-----------------|---------|

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