

Image may differ from product. See technical specification for details.

361207 R

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	80 mm
Bore diameter	35 mm
Width	17 mm

Performance

Basic dynamic load rating	22.1 kN
Basic static load rating	11.8 kN
Limiting speed	4 500 r/min

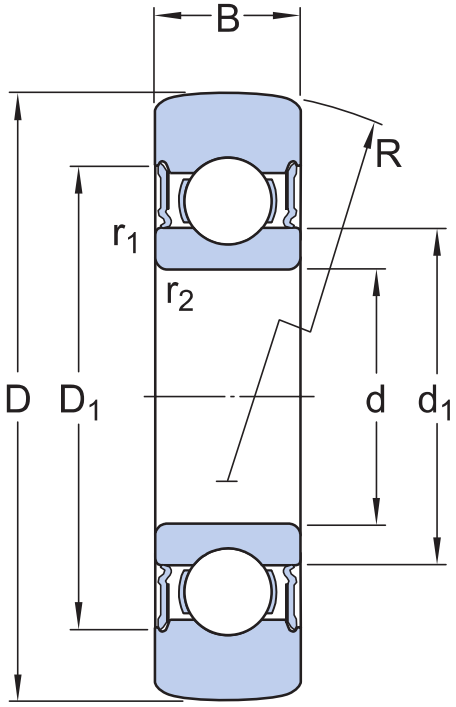
Properties

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 clearance	C3
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

Logistics

Product net weight	0.414 kg
eClass code	23-05-08-01
UNSPSC code	31171504

Technical specification



Dimensions

D	80 mm	Outside diameter
d	35 mm	Bore diameter
B	17 mm	Width
d_1	≈ 46.9 mm	Shoulder/recess diameter inner ring
D_1	≈ 62.7 mm	Recess diameter outer ring
R	400 mm	Profile running surface (crown) outer ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension

Calculation data

Basic dynamic load rating	C	22.1 kN
Basic static load rating	C_0	11.8 kN
Fatigue load limit	P_u	0.5 kN
Maximum dynamic radial load	F_r	max. 12.9 kN
Maximum static radial load	F_{0r}	max. 18.3 kN
Limiting speed		4 500 r/min
Calculation factor	f_0	13.8

Tolerances and clearances

GENERAL CAM ROLLER SPECIFICATIONS

- Tolerances: Normal
- Internal clearance: Single row cam rollers, Double row cam rollers

CAM ROLLER INTERFACES

- Seat tolerances for standard conditions
- Tolerances and resultant fit

More Information

Product details

- Designs and variants
- General cam roller specifications
- Loads
- Temperature limits
- Speed limits
- Design consideration
- Designation system

Engineering information

- Principles of rolling bearing selection
- General bearing knowledge
- Bearing selection process
- Bearing interfaces
- Lubrication
- External sealing, mounting and dismounting
- Bearing failure and how to prevent it

Tools

- SKF Product select
- Bearing Frequency Calculator
- SimPro Quick
- LubeSelect for SKF greases
- Heater selection tool

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