

361202 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

Bore diameter	15 mm
Functional outside diameter	40 mm
Width	11 mm

Performance

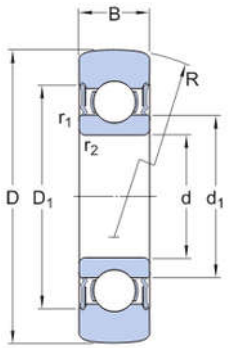
Basic dynamic load rating	7.02 kN
Basic static load rating	3.2 kN
Limiting speed	9 500 r/min

Properties

Axial guidance of outer ring	Yes
Axial internal clearance	Not applicable
Bearing part	Complete track roller
Cage	With
Coating	Without
Lubricant	Grease
Material, bearing	Bearing steel
Number of flanges, outer ring	0
Number of rows	1
Outer ring profile	Crowned
Radial internal	C3

clearance	
Relubrication feature	Without
Rolling elements	Balls
Sealing	Seal on both sides
Sealing type	Contact
Tolerance class	Normal (except crowned running surface)

Technical Specification



Dimensions

D	40 mm	Outside diameter
d	15 mm	Bore diameter
B	11 mm	Width
d_1	≈ 21.7 mm	Shoulder/recess diameter inner ring
D_1	≈ 30.4 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	7.02 kN
Basic static load rating	C_0	3.2 kN
Fatigue load limit	P_u	0.137 kN
Maximum dynamic radial load	F_r	max. 5.1 kN
Maximum static radial load	F_{0r}	max. 7.35 kN
Limiting speed		9 500 r/min
Calculation factor	f_0	13.1

Mass

Mass cam roller	0.048 kg

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