



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

305807 C-2Z

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	3.15 in
Bore diameter	1.378 in
Width	1.063 in

Performance

Basic dynamic load rating	7 756 lbf
Basic static load rating	4 856 lbf
Limiting speed	5 600 r/min

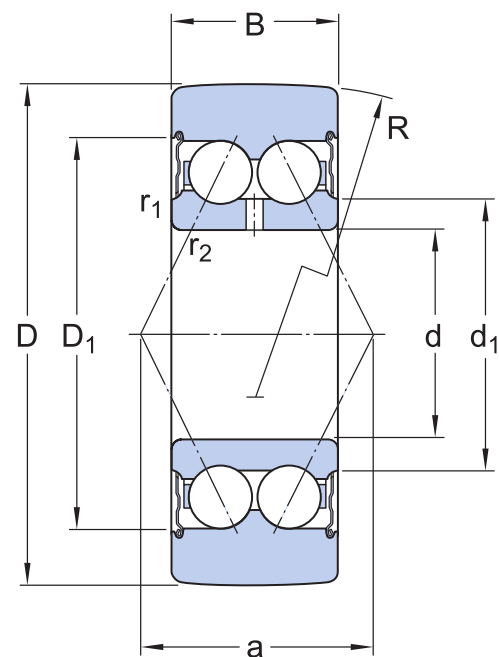
Properties

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

Logistics

Product net weight	1.411 lb
eClass code	23-05-08-03
UNSPSC code	31171531

Technical specification



Dimensions

D	3.15 in	Outside diameter
d	1.378 in	Bore diameter
B	1.063 in	Width
d ₁	≈ 1.787 in	Shoulder/recess diameter inner ring
D ₁	≈ 2.516 in	Recess diameter outer ring
R	15.748 in	Profile running surface (crown) outer ring
r _{1,2}	min. 0.043 in	Chamfer dimension
a	1.654 in	Distance pressure points

Calculation data

Basic dynamic load rating	C	7 756 lbf
Basic static load rating	C ₀	4 856 lbf
Fatigue load limit	P _u	225 lbf
Maximum dynamic radial load	F _r	max. 3 507 lbf
Maximum static radial load	F _{0r}	max. 5 036 lbf
Limiting speed		5 600 r/min

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

<div> Product details</div> <div>Designs and variants</div> <div>General cam roller specifications</div> <div>Loads</div> <div>Temperature limits</div> <div>Speed limits</div> <div>Design consideration</div> <div>Designation system</div>	<div> Engineering information</div> <div>Principles of rolling bearing selection</div> <div>General bearing knowledge</div> <div>Bearing selection process</div> <div>Bearing interfaces</div> <div>Lubrication</div> <div>External sealing, mounting and dismounting</div> <div>Bearing failure and how to prevent it</div>	<div> Tools</div> <div>SKF Product select</div> <div>Bearing Frequency Calculator</div> <div>SimPro Quick</div> <div>LubeSelect for SKF greases</div> <div>Heater selection tool</div>
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