



# C 2226

## CARB toroidal roller bearing

CARB toroidal roller bearings are unique: as well as accommodating misalignment without increased stress levels, they also provide frictionless axial movement within the bearing in the non-locating position in self-aligning bearing arrangements. Being SKF Explorer bearings, they can accommodate higher load levels and provide significantly extended service life.

- Accommodate misalignment and axial displacement within the bearing
- High radial load carrying capacity
- Provide frictionless axial movement
- Long bearing system life
- Reduce noise and vibration levels

## Overview

### Dimensions

Bore diameter	5.118 in
Outside diameter	9.055 in
Width	2.52 in

### Performance

Basic dynamic load rating	165 235 lbf
Basic static load rating	209 072 lbf
Limiting speed	3 800 r/min
Reference speed	2 800 r/min
SKF performance class	SKF Explorer

### Properties

Bore type	Cylindrical
Cage	Sheet metal
Locating feature, bearing outer ring	Without
Lubricant	None
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

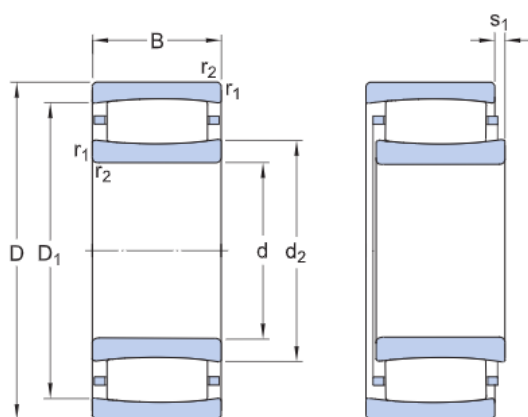
# Technical Specification

SKF performance class

SKF Explorer

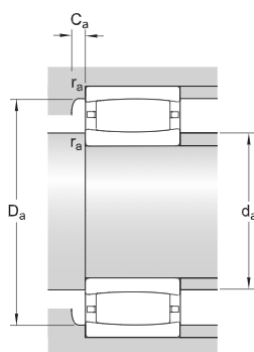
Bore type

Cylindrical



## Dimensions

d	5.118 in	Bore diameter
D	9.055 in	Outside diameter
B	2.52 in	Width
d <sub>2</sub>	≈ 5.984 in	Shoulder diameter of inner ring
D <sub>1</sub>	≈ 7.835 in	Shoulder or recess diameter of outer ring
s <sub>1</sub>	max. 0.378 in	Permissible axial displacement
r <sub>1,2</sub>	min. 0.118 in	Chamfer dimension



## Abutment dimensions

d <sub>a</sub>	min. 5.669 in	Diameter of shaft abutment
d <sub>a</sub>	max. 6.732 in	Diameter of shaft abutment
D <sub>c</sub>	min. 7.283 in	Diameter of housing abutment
D <sub>c</sub>	max. 8.504 in	Abutment diameter housing
C <sub>a</sub>	min. 0.043 in	Minimum width of space required in housing
r <sub>a</sub>	max. 0.098 in	Radius of fillet
A negative value for C <sub>a</sub>		

## Calculation data

Basic dynamic load rating

C

165 235 lbf

Basic static load rating	$C_0$	209 072 lbf
Fatigue load limit	$P_u$	20 570 lbf
Reference speed		2 800 r/min
Limiting speed		3 800 r/min
Misalignment factor	$k_1$	0.113
Internal clearance factor	$k_2$	0.101

## Mass

Mass		25.353 lb
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