



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

C 2217

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	85 mm
Outside diameter	150 mm
Width	36 mm

Performance

Basic dynamic load rating	275 kN
Basic static load rating	320 kN
Reference speed	4 000 r/min
Limiting speed	5 600 r/min
SKF performance class	SKF Explorer

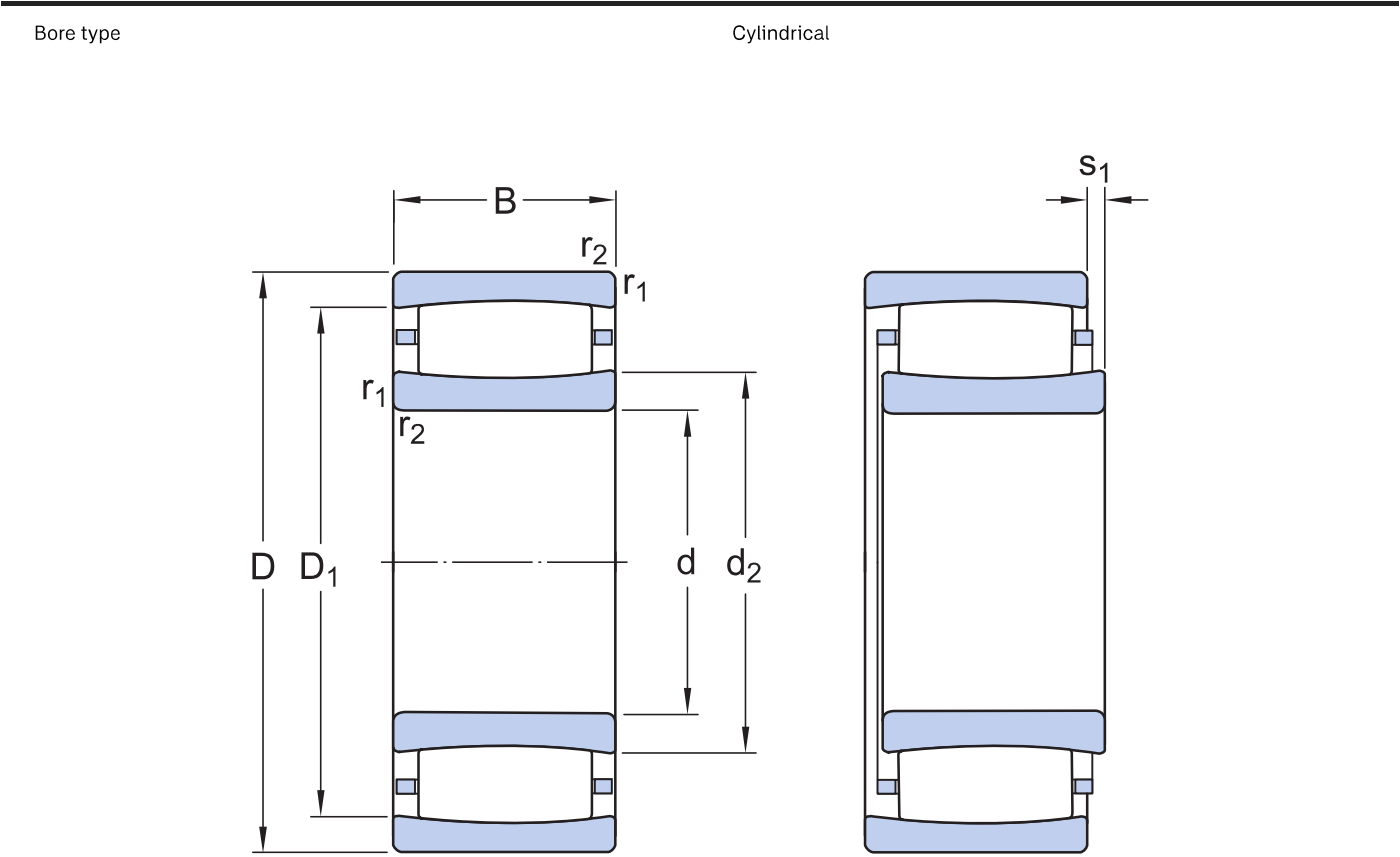
Properties

Number of rows	1
Locating feature, bearing outer ring	Without
Bore type	Cylindrical
Cage	Sheet metal
Radial internal clearance	CN
Tolerance class	Normal
Sealing	Without
Lubricant	None
Relubrication feature	Without
Candidate for remanufacturing	Yes

Logistics

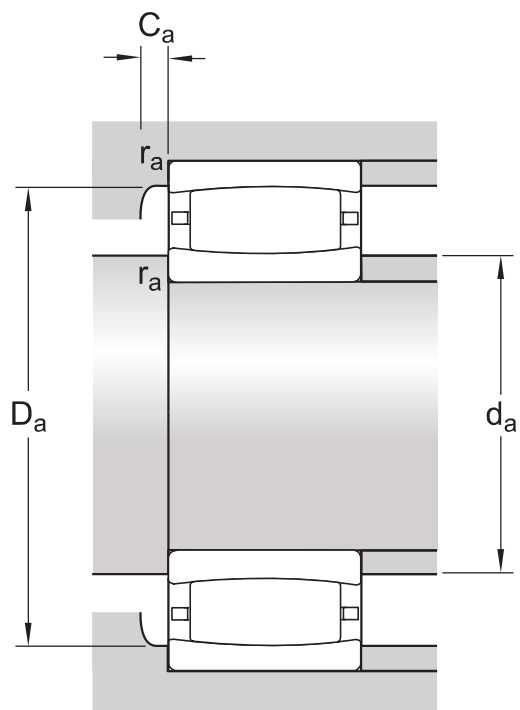
Product net weight	2.61 kg
eClass code	23-05-09-13
UNSPSC code	31171505

Technical specification



Dimensions

d	85 mm	Bore diameter
D	150 mm	Outside diameter
B	36 mm	Width
d ₂	≈ 103 mm	Shoulder diameter of inner ring
D ₁	≈ 133 mm	Shoulder or recess diameter of outer ring
s ₁	max. 7.1 mm	Permissible axial displacement
r _{1,2}	min. 2 mm	Chamfer dimension



Abutment dimensions

d _a	min. 96 mm	Diameter of shaft abutment
d _a	max. 114 mm	Diameter of shaft abutment
D _a	min. 123 mm	Diameter of housing abutment
D _a	max. 139 mm	Abutment diameter housing
C _a	min. 1.3 mm	Minimum width of space required in housing
r _a	max. 2 mm	Radius of fillet
A negative value for C _a is theoretical.		Notes - Bullet list

Calculation data

SKF performance class		SKF Explorer
Basic dynamic load rating	C	275 kN
Basic static load rating	C ₀	320 kN
Fatigue load limit	P _u	35.5 kN
Reference speed		4 000 r/min
Limiting speed		5 600 r/min
Misalignment factor	k ₁	0.114
Internal clearance factor	k ₂	0.105

Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

- Tolerances: Normal, P5, tapered bore 1:12, tapered bore 1:30
- Radial internal clearance: cylindrical bore, tapered bore

BEARING INTERFACES

- [Seat tolerances for standard conditions](#)
- [Tolerances and resultant fit](#)

More Information

 Product details Designs and variants General bearing specifications Loads Temperature limits Permissible speed Design considerations Mounting Designation system	 Engineering information Principles of rolling bearing selection General bearing knowledge Bearing selection process Bearing failure and how to prevent it	 Tools SimPro Quick SKF Product select - Select and evaluate bearing SKF Product select - Combine bearing with housing LubeSelect for SKF greases Drive-up Method Program Heater selection tool Oil Injection Method Program Tool and Accessory Selector for sleeves and shafts
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