



C 2218 KCARB toroidal roller bearing with tapered bore (1:12)

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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	90 mm
Outside diameter	160 mm
Width	40 mm

Performance

Basic dynamic load rating	325 kN
Basic static load rating	380 kN
Reference speed	3 800 r/min
Limiting speed	5 300 r/min
SKF performance class	SKF Explorer

Properties

Number of rows	1
Locating feature, bearing outer ring	Without
Bore type	Tapered 1:12
Cage	Sheet metal
Radial internal clearance	CN
Tolerance class	Normal
Sealing	Without
Lubricant	None
Relubrication feature	Without

Technical Specification

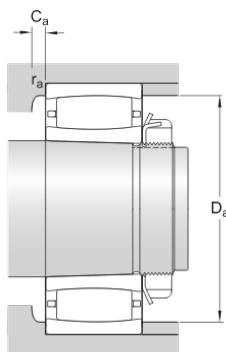
SKF performance class	SKF Explorer
Bore type	Tapered 1:12



Dimensions

d	90 mm	Bore diameter
D	160 mm	Outside diameter
B	40 mm	Width
d_2	≈ 111 mm	Shoulder diameter of inner ring
D_1	≈ 144 mm	Shoulder or recess diameter of outer ring
s_1	max. 9.5 mm	Permissible axial displacement
$r_{1,2}$	min. 2 mm	Chamfer dimension

Abutment dimensions



D_a	min. 133 mm	Diameter of housing abutment
D_a	max. 149 mm	Abutment diameter housing
C_a	min. 1.4 mm	Minimum width of space required in housing
r_a	max. 2 mm	Radius of fillet
A negative value for C_a		

Calculation data

Basic dynamic load rating	C	325 kN
Basic static load rating	C_0	380 kN

Fatigue load limit	P_u	41.5 kN
Reference speed		3 800 r/min
Limiting speed		5 300 r/min
Misalignment factor	k_1	0.104
Internal clearance factor	k_2	0.117

Mass

Mass		3.25 kg
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