

C 2316 K

Popular item
SKF Explorer

CARB toroidal roller bearings

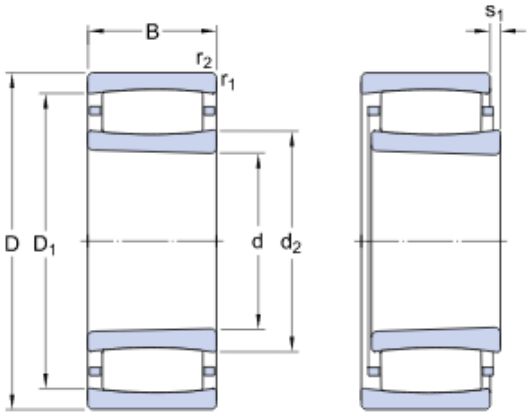
Bearing data

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

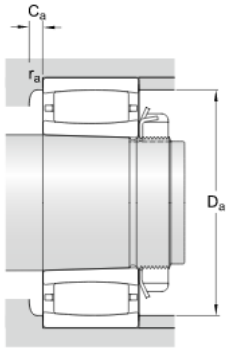
Technical specification



DIMENSIONS

d	80 mm
D	170 mm
B	58 mm
d_2	≈ 102 mm
D_1	≈ 146 mm
s_1	max. 10.1 mm
$r_{1,2}$	min. 2.1 mm

Tapered bore, taper 1:12



ABUTMENT DIMENSIONS

D_a	min. 133 mm
D_a	max. 158 mm
C_a	min. 2.4 mm
r_a	max. 2 mm

A negative value for C_a

CALCULATION DATA

Basic dynamic load rating	C	510 kN
Basic static load rating	C_0	550 kN
Fatigue load limit	P_u	60 kN
Reference speed		3400 r/min
Limiting speed		4500 r/min
Misalignment factor	k_1	0.107
Operating clearance factor	k_2	0.101

MASS

Mass bearing	6.15 kg

More information

Product details

- Designs and variants
- Bearing data
- 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
- Bearing Select
- Engineering Calculator
- Housing Select
- LubeSelect for SKF greases
- Drive-up Method Program
- Heater selection tool
- Oil Injection Method Program
- Rolling bearings mounting and dismounting instructions
- Tool and Accessory Selector for sleeves and shafts

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