



## 21312 EK

# Spherical roller bearing with tapered bore and relubrication features

Spherical roller bearings can accommodate heavy loads in both directions. They are self-aligning and accommodate misalignment and shaft deflections, with virtually no increase in friction or temperature. The design includes features to facilitate relubrication. The bearings can be used in a modular system, including housings, sleeves and nuts.

- Accommodate misalignment
- High load carrying capacity
- Relubrication features
- Low friction and long service life
- Increased wear resistance

#### Overview

#### **Dimensions**

Bore diameter	60 mm
Outside diameter	130 mm
Width	31 mm

#### Performance

Basic dynamic load rating	217 kN
Basic static load rating	240 kN
Reference speed	4 800 r/min
Limiting speed	6 300 r/min
SKF performance class	SKF Explorer

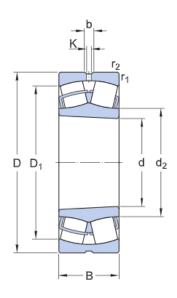
## **Properties**

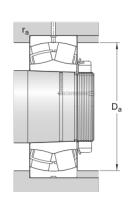
Number of rows	2
Locating feature, bearing outer ring	Without
Bore type	Tapered 1:12
Cage	Sheet metal
Radial internal clearance	CN
Tolerance class for dimensions	Normal
Tolerance class for run-out	P5
Sealing	Without
Lubricant	None
Relubrication feature	With



# Technical Specification

SKF performance class	SKF Explorer
Bore type	Tapered 1:12





## Dimensions

d	60 mm	Bore diameter
D	130 mm	Outside diameter
В	31 mm	Width
$d_2$	≈ 87.8 mm	Shoulder diameter of inner ring
$D_1$	≈ 115 mm	Shoulder/recess diameter of outer ring
b	6 mm	Width of lubrication groove
K	3 mm	Diameter of lubrication hole
r <sub>1,2</sub>	min. 2.1 mm	Chamfer dimension

## Abutment dimensions

D <sub>a</sub> max. 118 mm	Diameter of housing abutment
r <sub>a</sub> max. 2 mm	Radius of fillet

## Calculation data

Basic dynamic load rating	С	217 kN
Basic static load rating	$C_0$	240 kN



Fatigue load limit	$P_{u}$	26.5 kN
Reference speed		4 800 r/min
Limiting speed		6 300 r/min
Limiting value	е	0.22
Calculation factor	Y <sub>1</sub>	3
Calculation factor	Y <sub>2</sub>	4.6
Calculation factor	Y <sub>0</sub>	2.8

## Mass

Mass		2.05 kg
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# Mounting information

Recommended tightening angle for lock nut	α	115 °
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## Tolerance class

Dimensional tolerances	Normal
Radial run-out	P5



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