



## 22213 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	65 mm
Outside diameter	120 mm
Width	31 mm

#### Performance

Basic dynamic load rating	198 kN
Basic static load rating	216 kN
Reference speed	5 000 r/min
Limiting speed	7 000 r/min
SKF performance class	SKF Explorer

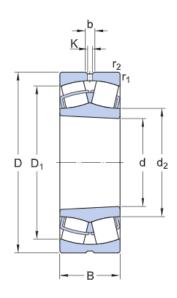
## Properties

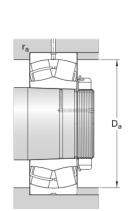
Number of rows	2
Locating feature, bearing outer ring	Without
Bore type	Tapered 1:12
Cage	Sheet metal
Radial internal clearance	CN
Tolerance class for dimensions	Normal
Tolerance class for run-out	P5
Sealing	Without
Lubricant	None
Relubrication feature	With



## Technical Specification

SKF performance class	SKF Explorer
Bore type	Tapered 1:12





## Dimensions

d	65 mm	Bore diameter
D	120 mm	Outside diameter
В	31 mm	Width
$d_2$	≈ 80.1 mm	Shoulder diameter of inner ring
$D_1$	≈ 106 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. 1.5 mm	Chamfer dimension

#### Abutment dimensions

D <sub>a</sub> max. 111 mm	Diameter of housing abutment
r <sub>a</sub> max. 1.5 mm	Radius of fillet

## Calculation data

Basic dynamic load rating	С	198 kN
Basic static load rating	$C_0$	216 kN



Fatigue load limit	$P_{u}$	23.6 kN
Reference speed		5 000 r/min
Limiting speed		7 000 r/min
Limiting value	е	0.24
Calculation factor	Y <sub>1</sub>	2.8
Calculation factor	Y <sub>2</sub>	4.2
Calculation factor	Y <sub>0</sub>	2.8

## Mass

## 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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