





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	46 mm

#### Performance

Basic dynamic load rating	325 kN
Basic static load rating	335 kN
Reference speed	4 000 r/min
Limiting speed	5 300 r/min
SKF performance class	SKF Explorer

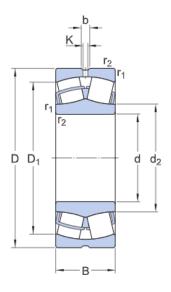
### **Properties**

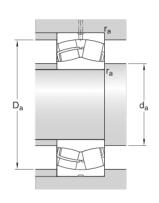
Number of rows	2
Locating feature, bearing outer ring	Without
Bore type	Cylindrical
Cage	Sheet metal
Radial internal clearance	CN
Tolerance class for dimensions	Normal
Tolerance class for run-out	P5
Sealing	Without
Lubricant	None
Relubrication feature	With



# **Technical Specification**

SKF performance class	SKF Explorer
Bore type	Cylindrical





### Dimensions

Bore diameter	60 mm	d
Outside diameter	130 mm	D
Width	46 mm	В
Shoulder diameter of inner ring	≈ 77.9 mm	$d_2$
Shoulder/recess diameter of outer ring	≈ 110 mm	D <sub>1</sub>
Width of lubrication groove	8.3 mm	b
Diameter of lubrication hole	4.5 mm	K
m Chamfer dimension	min. 2.1 mm	r <sub>1,2</sub>

### Abutment dimensions

d <sub>a</sub> min. 72 mm	Diameter of shaft abutment
D <sub>ε</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	325 kN
Basic static load rating	$C_0$	335 kN



Fatigue load limit	$P_{u}$	36 kN
Reference speed		4 000 r/min
Limiting speed		5 300 r/min
Limiting value	е	0.35
Calculation factor	$Y_1$	1.9
Calculation factor	Y <sub>2</sub>	2.9
Calculation factor	$Y_0$	1.8

### Mass

Mass 2.95
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# Tolerance class

Dimensional tolerances	Normal
Radial run-out	P5



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