

21314 EK

Popular item
SKF Explorer

Spherical roller bearings

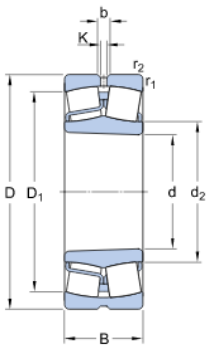
Bearing data

Tolerances,
Normal, P6, P5, tapered bore 1:12, tapered bore 1:30,
Radial internal clearance,
cylindrical bore, tapered bore

Bearing interfaces

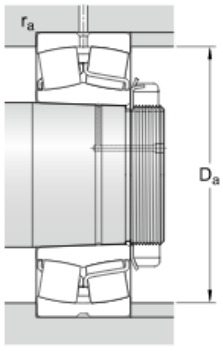
Seat tolerances for standard conditions,
Tolerances and resultant fit

Technical specification



DIMENSIONS

d	70 mm
D	150 mm
B	35 mm
d_2	≈ 101 mm
D_1	≈ 133 mm
b	6 mm
K	3 mm
$r_{1,2}$	min. 2.1 mm
Tapered bore, taper 1:12	



ABUTMENT DIMENSIONS

D_a	max. 138 mm
r_a	max. 2 mm

CALCULATION DATA

Basic dynamic load rating	C	291 kN
Basic static load rating	C_0	325 kN
Fatigue load limit	P_u	34.5 kN
Reference speed		4000 r/min
Limiting speed		5600 r/min
Calculation factor	e	0.22
Calculation factor	Y_1	3
Calculation factor	Y_2	4.6
Calculation factor	Y_0	2.8

MASS

Mass bearing	3.1 kg

MOUNTING INFORMATION

Recommended lock nut tightening angle	α	130 °

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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