

BS2-2220-2RS5K/VT143

SKF Explorer

Spherical roller bearings

Bearing data

Tolerances,

Normal, P6, P5, tapered bore 1:12, tapered bore 1:30,

Radial internal clearance,

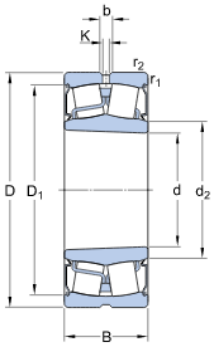
cylindrical bore, tapered bore

Bearing interfaces

Seat tolerances for standard conditions,

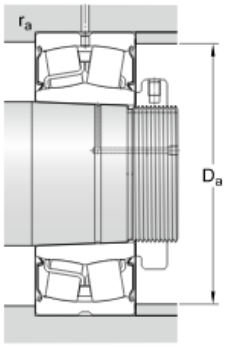
Tolerances and resultant fit

Technical specification



DIMENSIONS

d	100 mm
D	180 mm
B	55 mm
d_2	≈ 114 mm
D_1	≈ 163 mm
b	8.3 mm
K	4.5 mm
$r_{1,2}$	min. 2.1 mm
Tapered bore, taper 1:12	



ABUTMENT DIMENSIONS

D_a	max. 168 mm
r_a	max. 2 mm

CALCULATION DATA

Basic dynamic load rating	C	433 kN
Basic static load rating	C_0	490 kN
Fatigue load limit	P_u	49 kN
Limiting speed		1600 r/min
Calculation factor	e	0.24
Calculation factor	Y_1	2.8
Calculation factor	Y_2	4.2
Calculation factor	Y_0	2.8

MASS

Mass bearing	5.5 kg

MOUNTING INFORMATION

Recommended lock nut tightening angle	α	150 °

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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