

# 6312

Popular item
SKF Explorer

## Deep groove ball bearings

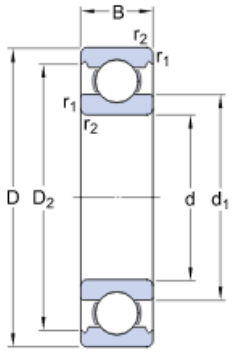
### Bearing data

Tolerances,
Normal (metric), P6, P5, Normal (inch),
Radial internal clearance,
Matched bearing pairs, Stainless steel
d < 10 mm, Other bearings

### Bearing interfaces

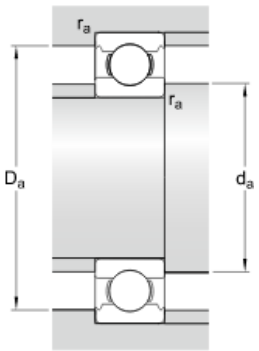
Seat tolerances for standard conditions,
Tolerances and resultant fits

## Technical specification




### DIMENSIONS

| | |
|---|---|
| d | 60 mm |
| D | 130 mm |
| B | 31 mm |
| $d_1$ | ≈ 81.86 mm |
| $D_2$ | ≈ 112.2 mm |
| $r_{1,2}$ | min. 2.1 mm |




### ABUTMENT DIMENSIONS

| | |
|---|---|
| $d_a$ | min. 72 mm |
| $D_a$ | max. 118 mm |
| $r_a$ | max. 2 mm |

## CALCULATION DATA

| | | |
|---|---|---|
| Basic dynamic load rating | C | 85.2 kN |
| Basic static load rating | $C_0$ | 52 kN |
| Fatigue load limit | $P_u$ | 2.2 kN |
| Reference speed | | 11000 r/min |
| Limiting speed | | 7000 r/min |
| Calculation factor | $k_r$ | 0.03 |
| Calculation factor | $f_0$ | 13.1 |

## MASS

| | |
|---|---|
| Mass bearing | 1.72 kg |

## More information

### Product details

- Single row deep groove ball bearings
- Stainless steel deep groove ball bearings
- Single row deep groove ball bearings with filling slots
- Double row deep groove ball bearings
- Bearing data
- Loads
- Temperature limits
- Permissible speed
- Designation system

### Engineering information

- Principles of rolling bearing selection
- General bearing knowledge
- Bearing selection process
- Bearing interfaces
- Seat tolerances for standard conditions
- Selecting internal clearance
- Lubrication
- Sealing, mounting and dismounting
- Bearing failure and how to prevent it

### Tools

- Bearing Select
- SimPro Quick
- Engineering Calculator
- LubeSelect for SKF greases
- Heater selection tool
- Rolling bearings mounting and dismounting instructions

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