



# 231/530 CAK/W33

SKF Explorer

## Spherical roller bearings

### Bearing data

[Tolerances,](#)

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

[Radial internal clearance,](#)

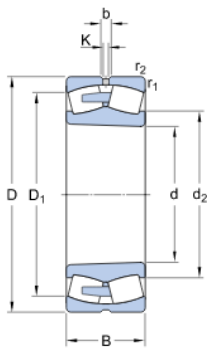
cylindrical bore, tapered bore

### Bearing interfaces

[Seat tolerances for standard conditions,](#)

[Tolerances and resultant fit](#)

## Technical specification

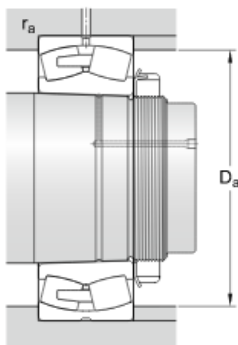


## DIMENSIONS

|                          |             |
|--------------------------|-------------|
| d                        | 530 mm      |
| D                        | 870 mm      |
| B                        | 272 mm      |
| d <sub>2</sub>           | ≈ 638 mm    |
| D <sub>1</sub>           | ≈ 763 mm    |
| b                        | 22.3 mm     |
| K                        | 12 mm       |
| r <sub>1,2</sub>         | min. 7.5 mm |
| Tapered bore, taper 1:12 |             |

## ABUTMENT DIMENSIONS

|                |             |
|----------------|-------------|
| D <sub>a</sub> | max. 838 mm |
| r <sub>a</sub> | max. 6 mm   |



## CALCULATION DATA

|                           |                |           |
|---------------------------|----------------|-----------|
| Basic dynamic load rating | C              | 8526 kN   |
| Basic static load rating  | C <sub>0</sub> | 14000 kN  |
| Fatigue load limit        | P <sub>u</sub> | 880 kN    |
| Reference speed           |                | 360 r/min |
| Limiting speed            |                | 670 r/min |
| Calculation factor        | e              | 0.3       |
| Calculation factor        | Y <sub>1</sub> | 2.3       |
| Calculation factor        | Y <sub>2</sub> | 3.4       |
| Calculation factor        | Y <sub>0</sub> | 2.2       |

## MASS

|              |        |
|--------------|--------|
| Mass bearing | 620 kg |
|--------------|--------|

More information

| Product details                       | Product details                       | Engineering information                                 | Engineering information                                 | Tools   | Tools   |
|---------------------------------------|---------------------------------------|---|---|---|---|
| <a href="#">Designs and variants</a>  | <a href="#">Designs and variants</a>  | <a href="#">Principles of rolling bearing selection</a> | <a href="#">Principles of rolling bearing selection</a> | <a href="#">SimPro Quick</a>  | <a href="#">SimPro Quick</a>  |
| <a href="#">Bearing data</a>          | <a href="#">Bearing data</a>          | <a href="#">General bearing knowledge</a>               | <a href="#">General bearing knowledge</a>               | <a href="#">Bearing Select</a>  | <a href="#">Bearing Select</a>  |
| <a href="#">Loads</a>                 | <a href="#">Loads</a>                 |   |   | <a href="#">Engineering Calculator</a>                                | <a href="#">Engineering Calculator</a>                                |
| <a href="#">Temperature limits</a>    | <a href="#">Temperature limits</a>    | <a href="#">Bearing selection process</a>               | <a href="#">Bearing selection process</a>               | <a href="#">Housing Select</a>  | <a href="#">Housing Select</a>  |
| <a href="#">Permissible speed</a>     | <a href="#">Permissible speed</a>     | <a href="#">Bearing failure and how to prevent it</a>   | <a href="#">Bearing failure and how to prevent it</a>   | <a href="#">LubeSelect for SKF greases</a>                            | <a href="#">LubeSelect for SKF greases</a>                            |
| <a href="#">Design considerations</a> | <a href="#">Design considerations</a> |   |   | <a href="#">Drive-up Method Program</a>                               | <a href="#">Drive-up Method Program</a>                               |
| <a href="#">Mounting</a>              | <a href="#">Mounting</a>              |   |   | <a href="#">Heater selection tool</a>                                 | <a href="#">Heater selection tool</a>                                 |
| <a href="#">Designation system</a>    | <a href="#">Designation system</a>    |   |   | <a href="#">Oil Injection Method Program</a>                          | <a href="#">Oil Injection Method Program</a>                          |
|                                       |                                       |   |   | <a href="#">Rolling bearings mounting and dismounting instruction</a> | <a href="#">Rolling bearings mounting and dismounting instruction</a> |
|                                       |                                       |   |   | <a href="#">Cool and Accessory Selector for sleeves and shafts</a>    | <a href="#">Cool and Accessory Selector for sleeves and shafts</a>    |

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