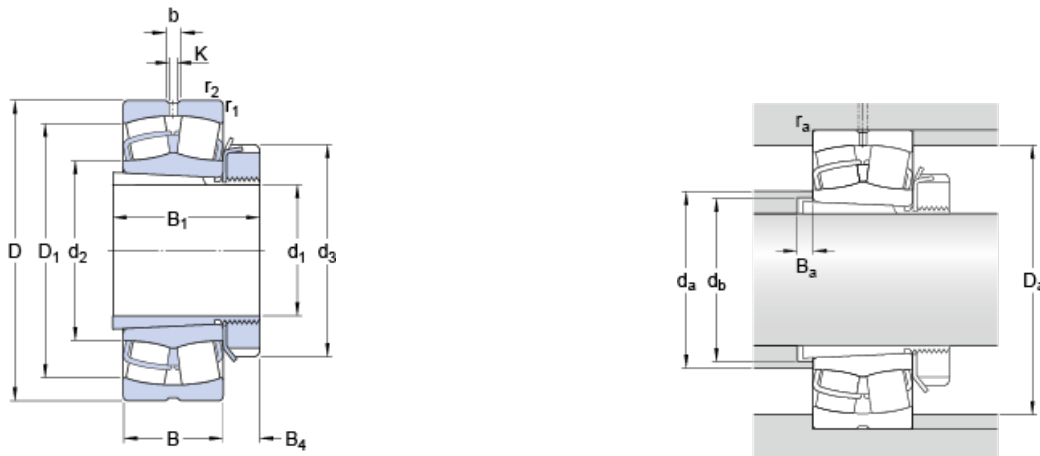


## 22211 EK + H 311



### Technical sheet of 22211 EK + H 311

#### What are the Benefits of choosing 22211 EK + H 311 bearings?

- **Self-aligning:** Allows for significant angular errors or shaft deflection between the shaft and bearing housing, effectively compensating for installation errors and shaft deformation.
- **High load capacity:** Featuring a double-row roller structure, it boasts extremely high radial load capacity while also withstanding certain bidirectional axial loads.
- **Adaptable to vibration applications:** Performs excellently under impact and vibration loads, exhibiting good durability.
- **Easy installation:** Models with tapered bores are typically available, allowing for convenient installation at any position on different optical shafts using adapter sleeves or withdrawal sleeves.

|                          |   |                                    |
|--------------------------|---|------------------------------------|
| <b>Type :</b>            | Spherical Roller Bearings   |                                    |
| <b>Model :</b>           | <a href="https://en.tradebearings.com/22211_EK+_H_311-277434.html">22211 EK + H 311</a> |                                    |
| <b>Main demensions :</b> | 50 mm × 100 mm × 25 mm  | Bore Dia × Outside Dia × Width Dia |
| <b>M kg:</b>             | 1.1   | Mass                               |
| <b>HS Code :</b>         | 8482300000  | Bearing customs code               |
| <b>d mm:</b>             | 50  | inner ring diameter                |
| <b>D mm:</b>             | 100   | Outer ring diameter                |
| <b>B(T) mm:</b>          | 25  | Overall Width                      |
| <b>Cr kN:</b>            | 129   | Radial dynamic load rating         |
| <b>C0r kN:</b>           | 127   | Radial static load rating          |
| <b>Grease r/min:</b>     | 6300  | Reference speed                    |

Oil r/min:

8500

Limiting speed

### Detailed parameters and installation dimensions:

D1: 50 mm

D: 100 mm

B: 25 mm

d2: 65.3 mm

d3: 75 mm

D1: 88 mm

B1: 45 mm

B4: 12.5 mm

b: 6 mm

K: 3 mm

r1,2 min.: 1.5 mm

Da max.: 65 mm

db min.: 60 mm

Da max.: 91 mm

B<sub>a</sub> min.: 10 mm

ra max.: 1.5 mm

Cr: 129 kN

Cor: 127 kN

Pu: 14 kN

n<sub>B</sub>: 6300 r/min

n<sub>G</sub>: 8500 r/min

e: 0.24

Y1: 2.8

Y2: 4.2

Y0: 2.8

### What are the applications of the 22211 EK + H 311 bearing?

- **Mining/Metallurgy/Cement:** Used in crushers and vibrating screens. Impact resistant, withstands extreme heavy loads, and adaptable to harsh environments.
- **Paper/Steel:** Used in rolling mills and roller conveyors. Automatic self-aligning compensation effectively addresses shaft deflection or misalignment.
- **Industrial Transmission:** Used in speed reducers and fans. Smooth operation, long service life, and withstands complex composite loads.

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