



## SKF 2306

### Self-aligning ball bearing

Self-aligning ball bearings have two rows of balls, a common sphered raceway in the outer ring and two deep uninterrupted raceway grooves in the inner ring. They are insensitive to angular misalignment of the shaft relative to the housing, which can be caused, for example, by shaft deflection.

## Technical specifications

Bore type	Cylindrical
<b>Dimensions</b>	
Bore diameter	30 mm
Outside diameter	72 mm
Width	27 mm
Shoulder diameter inner ring	41.9 mm
Shoulder diameter outer ring	59.8 mm
Chamfer dimension	1.1 mm
<b>Abutment dimensions</b>	
Abutment diameter shaft	37 mm
Abutment diameter housing	65 mm
Fillet radius	1.1 mm
<b>Calculation data</b>	
Basic dynamic load rating	31.2 kN
Basic static load rating	8.8 kN
Fatigue load limit	0.45 kN
Reference speed	18000 r/min
Limiting speed	13000 r/min
Permissible angular misalignment	3 °
Calculation factor	0.05
Limiting value	0.44
Calculation factor	1.4
Calculation factor	1.4
Calculation factor	2.2
<b>Performance</b>	
Basic dynamic load rating	31.2 kN
Basic static load rating	8.8 kN
Reference speed	18000 r/min
Limiting speed	13000 r/min
<b>Properties</b>	
Retaining feature, inner ring	None
Locating feature, bearing outer ring	Without
Number of rows	2
Bore type	Cylindrical
Cage	Sheet metal
Radial internal clearance	CN
Tolerance class	Normal
Material, bearing	Bearing steel
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

Indicative carbon footprint for new product

1.8 kg CO<sub>2</sub>e

<b>Logistics</b>	
Product net weight	0.496 kg
eClass code	23-05-08-06
UNSPSC code	31171532

**SKF drawings**

