



## SKF 2314

### 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	70 mm
Outside diameter	150 mm
Width	51 mm
Shoulder diameter inner ring	92 mm
Shoulder diameter outer ring	128.1 mm
Chamfer dimension	2.1 mm
<b>Abutment dimensions</b>	
Abutment diameter shaft	82 mm
Abutment diameter housing	138 mm
Fillet radius	2 mm
<b>Calculation data</b>	
Basic dynamic load rating	111 kN
Basic static load rating	37.5 kN
Fatigue load limit	1.86 kN
Reference speed	8000 r/min
Limiting speed	6000 r/min
Permissible angular misalignment	3 °
Calculation factor	0.05
Limiting value	0.37
Calculation factor	1.8
Calculation factor	1.7
Calculation factor	2.6
<b>Performance</b>	
Basic dynamic load rating	111 kN
Basic static load rating	37.5 kN
Reference speed	8000 r/min
Limiting speed	6000 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

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

<b>Logistics</b>	
Product net weight	3.95 kg
eClass code	23-05-08-06
UNSPSC code	31171532

SKF drawings

