



## SKF 1316

### 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	80 mm
Outside diameter	170 mm
Width	39 mm
Shoulder diameter inner ring	110 mm
Shoulder diameter outer ring	144.4 mm
Chamfer dimension	2.1 mm
<b>Abutment dimensions</b>	
Abutment diameter shaft	92 mm
Abutment diameter housing	158 mm
Fillet radius	2 mm
<b>Calculation data</b>	
Basic dynamic load rating	88.4 kN
Basic static load rating	33.5 kN
Fatigue load limit	1.5 kN
Reference speed	7500 r/min
Limiting speed	5300 r/min
Permissible angular misalignment	3 °
Calculation factor	0.05
Limiting value	0.22
Calculation factor	2.8
Calculation factor	2.9
Calculation factor	4.5
<b>Performance</b>	
Basic dynamic load rating	88.4 kN
Basic static load rating	33.5 kN
Reference speed	7500 r/min
Limiting speed	5300 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

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

<b>Logistics</b>	
Product net weight	4.14 kg
eClass code	23-05-08-06
UNSPSC code	31171532

**SKF drawings**

