



SKF 31318

Single row tapered roller bearing

Single row tapered roller bearings are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

Technical specifications

General	
Dimension series	7GB
Dimensions	
Bore diameter	90 mm
Outside diameter	190 mm
Bearing width, total	46.5 mm
Shoulder diameter of inner ring	138.88 mm
Width of inner ring	43 mm
Width of outer ring	30 mm
Chamfer dimension of inner ring	4 mm
Chamfer dimension of outer ring	3 mm
Distance side face to pressure point	57.3 mm
Width, total	46.5 mm
Width, inner ring	43 mm
Width, outer ring	30 mm
Contact angle	28.8 °
Abutment dimensions	
Diameter of shaft abutment	110 mm
Diameter of shaft abutment	105.5 mm
Diameter of housing abutment	151 mm
Diameter of housing abutment	177.5 mm
Diameter of housing abutment	179 mm
Minimum width of space required in housing on large side face	5 mm
Minimum width of space required in housing on small side face	16.5 mm
Radius of shaft fillet	4 mm
Radius of housing fillet	3 mm
Calculation data	
Basic dynamic load rating	283 kN
Basic static load rating	315 kN
Fatigue load limit	35.5 kN
Reference speed	2400 r/min
Limiting speed	3400 r/min
Limiting value	0.83
Calculation factor	0.72
Calculation factor	0.4
Performance	
Basic dynamic load rating	283 kN
Basic static load rating	315 kN
Reference speed	2400 r/min
Limiting speed	3400 r/min
Properties	
Bearing part	Complete bearing
Number of rows	1

Locating feature, bearing outer ring	Without
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without
Unit system	Metric
Indicative carbon footprint for new product	19 kg CO ₂ e

Logistics	
Product net weight	5.29 kg
eClass code	23-05-09-10
UNSPSC code	31171516

SKF drawings