



SKF 31328 X

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	140 mm
Outside diameter	300 mm
Bearing width, total	77 mm
Shoulder diameter of inner ring	220.275 mm
Width of inner ring	70 mm
Width of outer ring	47 mm
Chamfer dimension of inner ring	5 mm
Chamfer dimension of outer ring	4 mm
Distance side face to pressure point	90.1 mm
Width, total	77 mm
Width, inner ring	70 mm
Width, outer ring	47 mm
Contact angle	28.8 °
Abutment dimensions	
Diameter of shaft abutment	169 mm
Diameter of shaft abutment	159.5 mm
Diameter of housing abutment	235 mm
Diameter of housing abutment	284 mm
Diameter of housing abutment	280 mm
Minimum width of space required in housing on large side face	9 mm
Minimum width of space required in housing on small side face	30 mm
Radius of shaft fillet	5 mm
Radius of housing fillet	4 mm
Calculation data	
Basic dynamic load rating	693 kN
Basic static load rating	900 kN
Fatigue load limit	90 kN
Reference speed	1500 r/min
Limiting speed	2200 r/min
Limiting value	0.83
Calculation factor	0.72
Calculation factor	0.4
Performance	
Basic dynamic load rating	693 kN
Basic static load rating	900 kN
Reference speed	1500 r/min
Limiting speed	2200 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	81.4 kg CO ₂ e

Logistics	
Product net weight	22.6 kg
eClass code	23-05-09-10
UNSPSC code	31171516

SKF drawings