



SKF 33210

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	3DE

Dimensions	
Bore diameter	50 mm
Outside diameter	90 mm
Bearing width, total	32 mm
Shoulder diameter of inner ring	70.8 mm
Width of inner ring	32 mm
Width of outer ring	24.5 mm
Chamfer dimension of inner ring	1.5 mm
Chamfer dimension of outer ring	1.5 mm
Distance side face to pressure point	22.975 mm
Width, total	32 mm
Width, inner ring	32 mm
Width, outer ring	24.5 mm
Contact angle	15.4 °

Abutment dimensions	
Diameter of shaft abutment	57 mm
Diameter of shaft abutment	59 mm
Diameter of housing abutment	77 mm
Diameter of housing abutment	82 mm
Diameter of housing abutment	87 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	7.5 mm
Radius of shaft fillet	1.5 mm
Radius of housing fillet	1.5 mm

Calculation data	
SKF performance class	SKF Explorer
Basic dynamic load rating	142 kN
Basic static load rating	160 kN
Fatigue load limit	18.3 kN
Reference speed	5300 r/min
Limiting speed	7000 r/min
Limiting value	0.4
Calculation factor	1.5
Calculation factor	0.8

Performance	
Basic dynamic load rating	142 kN
Basic static load rating	160 kN
Reference speed	5300 r/min
Limiting speed	7000 r/min
SKF performance class	SKF Explorer

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	3.1 kg CO ₂ e

Logistics	
Product net weight	0.851 kg
eClass code	23-05-09-10
UNSPSC code	31171516

SKF drawings