



SKF 32224

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	4FD

Dimensions	
Bore diameter	120 mm
Outside diameter	215 mm
Bearing width, total	61.5 mm
Shoulder diameter of inner ring	164.37 mm
Width of inner ring	58 mm
Width of outer ring	50 mm
Chamfer dimension of inner ring	3 mm
Chamfer dimension of outer ring	2.5 mm
Distance side face to pressure point	51.2 mm
Width, total	61.5 mm
Width, inner ring	58 mm
Width, outer ring	50 mm
Contact angle	16.2 °

Abutment dimensions	
Diameter of shaft abutment	137 mm
Diameter of shaft abutment	134 mm
Diameter of housing abutment	181 mm
Diameter of housing abutment	203 mm
Diameter of housing abutment	204 mm
Minimum width of space required in housing on large side face	7 mm
Minimum width of space required in housing on small side face	11.5 mm
Radius of shaft fillet	3 mm
Radius of housing fillet	2.5 mm

Calculation data	
SKF performance class	SKF Explorer
Basic dynamic load rating	573 kN
Basic static load rating	695 kN
Fatigue load limit	72 kN
Reference speed	2400 r/min
Limiting speed	3000 r/min
Limiting value	0.43
Calculation factor	1.4
Calculation factor	0.8

Performance	
Basic dynamic load rating	573 kN
Basic static load rating	695 kN
Reference speed	2400 r/min
Limiting speed	3000 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	32.6 kg CO ₂ e

Logistics	
Product net weight	9.05 kg
eClass code	23-05-09-10
UNSPSC code	31171516

SKF drawings