



SKF 22230 CCK/W33

Spherical roller bearing with tapered bore and relubrication features

Spherical roller bearings can accommodate heavy loads in both directions. They are self-aligning and accommodate misalignment and shaft deflections, with virtually no increase in friction or temperature. The design includes features to facilitate relubrication. The bearings can be used in a modular system, including housings, sleeves and nuts.

Technical specifications

General	
Bore type	Tapered 1:12

Dimensions	
Bore diameter	150 mm
Deviation limits of mid-range bore diameter	0..0.04 mm
Deviation limits of tapered slope	0..0.04 mm
Outside diameter	270 mm
Deviation limits of mid-range outside diameter	-0.035..0 mm
Width	73 mm
Deviation limits of ring width	-0.08..0 mm
Shoulder diameter of inner ring	178 mm
Shoulder/recess diameter of outer ring	234 mm
Width of lubrication groove	13.9 mm
Diameter of lubrication hole	7.5 mm
Chamfer dimension	3 mm
ISO tolerance class for dimensions	Normal

Abutment dimensions	
Diameter of housing abutment	256 mm
Radius of fillet	2.5 mm

Calculation data	
SKF performance class	SKF Explorer
Basic dynamic load rating	898 kN
Basic static load rating	1080 kN
Fatigue load limit	102 kN
Reference speed	2200 r/min
Limiting speed	3000 r/min
Limiting value	0.26
Calculation factor	2.6
Calculation factor	3.9
Calculation factor	2.5

Tolerances of run-out	
Range of section height at inner ring of assembled bearing	8 µm
Maximum run-out of inner ring side face to the bore	10 µm
Range of section height at outer ring of assembled bearing	18 µm
Perpendicularity of outer ring outside surface	6.5 µm
ISO tolerance class for geometrical tolerances	P5

Radial internal clearance	
Minimum initial clearance	130 µm
Maximum initial clearance	180 µm

Performance	
Basic dynamic load rating	898 kN
Basic static load rating	1080 kN

Reference speed	2200 r/min
Limiting speed	3000 r/min
SKF performance class	SKF Explorer

Properties	
Number of rows	2
Locating feature, bearing outer ring	Without
Bore type	Tapered 1:12
Cage	Sheet metal
Radial internal clearance	CN
Tolerance class for dimensions	Normal
Tolerance class for run-out	P5
Sealing	Without
Lubricant	None
Relubrication feature	With
Candidate for remanufacturing	Yes
Indicative carbon footprint for new product	62.6 kg CO ₂ e
Indicative carbon footprint for remanufactured product	21.9 kg CO ₂ e

Logistics	
Product net weight	17.4 kg
eClass code	23-05-09-11
UNSPSC code	31171510

SKF drawings

