

Image may differ from product. See specification for details.

22226 EK/C4

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.

- Accommodate misalignment
- High load carrying capacity
- Relubrication features
- Low friction and long service life
- Increased wear resistance

Overview

Dimensions

Bore diameter	5.1181 in
Outside diameter	9.0551 in
Width	2.5197 in

Performance

Basic dynamic load rating	170 405 lbf
Basic static load rating	209 072 lbf
Reference speed	2 600 r/min
Limiting speed	3 600 r/min
SKF performance class	SKF Explorer

Properties

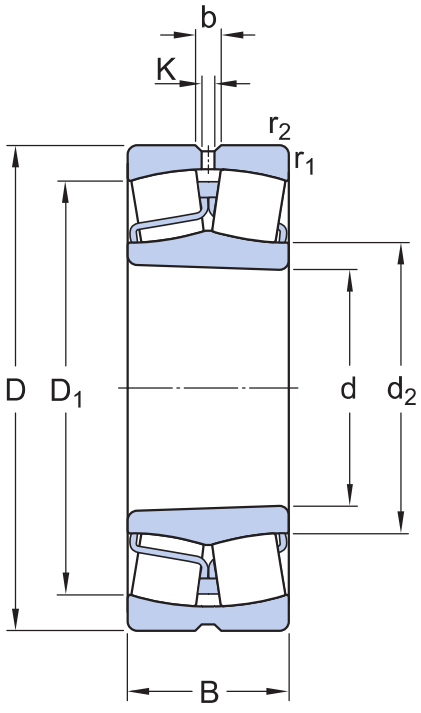
Number of rows	2
Locating feature, bearing outer ring	Without
Bore type	Tapered 1:12
Cage	Sheet metal
Radial internal clearance	C4
Tolerance class for dimensions	Normal
Tolerance class for run-out	P5
Sealing	Without
Lubricant	None
Relubrication feature	With
Candidate for remanufacturing	Yes
Indicative carbon footprint for new product	87.1 lb CO_2e
Indicative carbon footprint for remanufactured product	30.5 lb CO_2e

Logistics

Product net weight	24.2 lb
eClass code	23-05-09-11
UNSPSC code	31171510

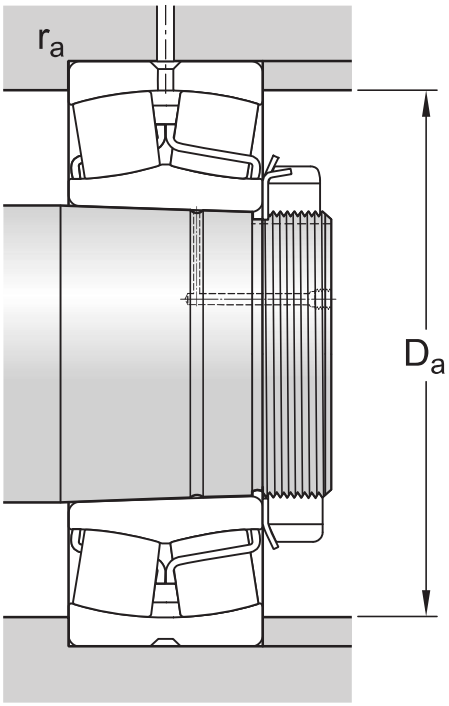
Technical specification

Bore type	Tapered 1:12



Dimensions

d	5.1181 in	Bore diameter
$t_{\Delta dmp}$	0 – 40 µm	Deviation limits of mid-range bore diameter
$t_{\Delta SL}$	0 – 40 µm	Deviation limits of tapered slope
D	9.0551 in	Outside diameter
$t_{\Delta Dmp}$	-30 – 0 µm	Deviation limits of mid-range outside diameter
B	2.5197 in	Width
$t_{\Delta Bs}$	-80 – 0 µm	Deviation limits of ring width
d_2	≈ 5.9843 in	Shoulder diameter of inner ring
D_1	≈ 7.9134 in	Shoulder/recess diameter of outer ring
b	0.437 in	Width of lubrication groove
K	0.2362 in	Diameter of lubrication hole
$r_{1,2}$	min. 0.1181 in	Chamfer dimension
	Normal	ISO tolerance class for dimensions



Abutment dimensions

D_a	max. 8.5039 in	Diameter of housing abutment
r_a	max. 0.0984 in	Radius of fillet

Calculation data

SKF performance class		SKF Explorer
Basic dynamic load rating	C	170 405 lbf
Basic static load rating	C_0	209 072 lbf
Fatigue load limit	P_u	19 783 lbf
Reference speed		2 600 r/min
Limiting speed		3 600 r/min
Limiting value	e	0.27
Calculation factor	Y_1	2.5
Calculation factor	Y_2	3.7
Calculation factor	Y_0	2.5

Tolerances of run-out

Range of section height at inner ring of assembled bearing	t_{Kia}	8 µm
Maximum run-out of inner ring side face to the bore	t_{Sd}	10 µm
Range of section height at outer ring of assembled bearing	t_{Kea}	15 µm
Perpendicularity of outer ring outside surface	t_{SD}	5.5 µm
ISO tolerance class for geometrical tolerances		P5

Radial internal clearance

Minimum initial clearance	0.0079 in
Maximum initial clearance	0.0102 in

Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

- Tolerances: Normal, P6, P5,
  tapered bore 1:12, tapered bore 1:30
- Radial internal clearance: cylindrical bore, tapered bore

BEARING INTERFACES

- Seat tolerances for standard conditions
- Tolerances and resultant fit

Compatible products

Recommended product

Withdrawal sleeve, basic design, ISO standards	AHX 3126
Adapter sleeve with KM lock nut and MB lock washer, metric dimensions	H 3126
Adapter sleeve with KM lock nut and MB lock washer, metric dimensions	H 3126 L
Adapter sleeve with KM lock nut and MB lock washer, metric dimensions with inch bore	HA 3126
Adapter sleeve	HA 3126 E
Adapter sleeve with KM lock nut and MB lock washer, metric dimensions with inch bore	HA 3126 L
Adapter sleeve with KM lock nut and MB lock washer, metric dimensions with inch bore	HE 3126
Adapter sleeve with KM lock nut and MB lock washer, metric dimensions with inch bore	HE 3126 L
Adapter sleeve with AN or N lock nut and W lock washer, inch dimensions	SNW 26X4.7/16

More Information

Product details

- Designs and variants
- General bearing specifications
- Loads
- Temperature limits
- Permissible speed
- Design considerations
- Mounting
- Designation system

Engineering information

- Principles of rolling bearing selection
- General bearing knowledge
- Bearing selection process
- Bearing failure and how to prevent it

Tools

- SimPro Quick
- SKF Product select - Select and evaluate bearing
- SKF Product select - Combine housing with bearing
- LubeSelect for SKF greases
- Drive-up Method Program
- Heater selection tool
- Oil Injection Method Program
- Tool and Accessory Selector for sleeves and shafts

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