



Image may differ from product. See technical specification for details.

22315 EKJA/VA405

Spherical roller bearing for vibratory applications, 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. This bearing design offers excellent performance in many types

of vibrating machinery. 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
- Accommodate very high vibration levels
- Low friction and long service life
- Increased wear resistance

Overview

Dimensions

Bore diameter	75 mm
Outside diameter	160 mm
Width	55 mm

Performance

Basic dynamic load rating	462 kN
Basic static load rating	475 kN
Reference speed	3 200 r/min
Limiting speed	4 300 r/min
SKF performance class	SKF Explorer

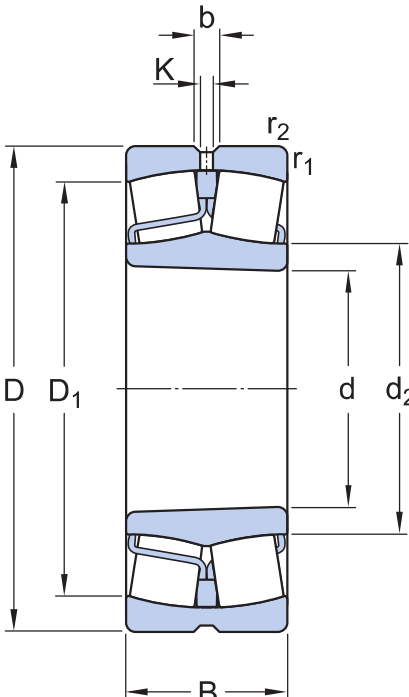
Properties

Number of rows	2
Locating feature, bearing outer ring	Without
Bore type	Tapered 1:12
Cage	Surface-hardened sheet metal
Radial internal clearance	C4
Tolerance class for dimensions	Normal, bore to P5 and outside diameter P6
Tolerance class for run-out	Normal
Sealing	Without
Lubricant	None
Relubrication feature	With

Logistics

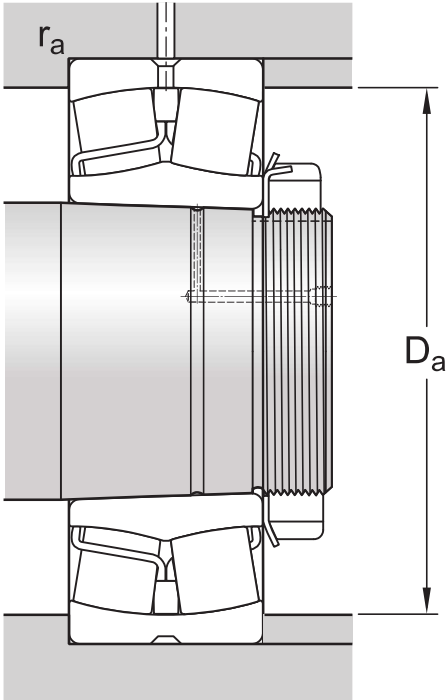
Product net weight	5.24 kg
eClass code	23-05-09-11
UNSPSC code	31171510

Technical specification

Bore type	Tapered 1:12
	

Dimensions

d	75 mm	Bore diameter
D	160 mm	Outside diameter
B	55 mm	Width
d ₂	≈ 92.8 mm	Shoulder diameter of inner ring
D ₁	≈ 135 mm	Shoulder/recess diameter of outer ring
b	8.3 mm	Width of lubrication groove
K	4.5 mm	Diameter of lubrication hole
r _{1,2}	min. 2.1 mm	Chamfer dimension



Abutment dimensions

D _a	max. 148 mm	Diameter of housing abutment
r _a	max. 2 mm	Radius of fillet

Calculation data

SKF performance class		SKF Explorer
Basic dynamic load rating	C	462 kN
Basic static load rating	C ₀	475 kN
Fatigue load limit	P _u	48 kN
Reference speed		3 200 r/min
Limiting speed		4 300 r/min
Limiting value	e	0.35
Calculation factor	Y ₁	1.9
Calculation factor	Y ₂	2.9
Calculation factor	Y ₀	1.8
Permissible rotational acceleration for oil lubrication		863 m/s ²
Permissible linear acceleration for oil lubrication		226 m/s ²

Mounting information

Recommended tightening angle for lock nut	α	130 °
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Tolerance class

Dimensional tolerances	Normal, bore to P5 and outside diameter P6
Radial run-out	Normal

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 2315 G
Adapter sleeve with KM lock nut and MB lock washer, metric dimensions	H 2315
Adapter sleeve with KM lock nut and MB lock washer, metric dimensions with inch bore	HA 2315
Adapter sleeve with KM lock nut and MB lock washer, metric dimensions with inch bore	HE 2315
Adapter sleeve with AN or N lock nut and W lock washer, inch dimensions	SNW 115X2.7/16

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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