



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

HK 2212

Drawn cup needle roller bearing with open ends

Drawn cup needle roller bearings are typically used in applications where the housing bore cannot be used as a raceway for a needle roller and cage assembly, but where a very compact and economical bearing arrangement is required. Owing to their large number of rollers, the bearings have a high load carrying capacity and stiffness.

- High radial load carrying capacity
- High stiffness
- Very low cross-sectional height

Overview

Dimensions

Bore diameter of needle roller complement	22 mm
Outside diameter	28 mm
Width	12 mm

Performance

Basic dynamic load rating	8.8 kN
Basic static load rating	13.7 kN
Reference speed	11 000 r/min
Limiting speed	12 000 r/min

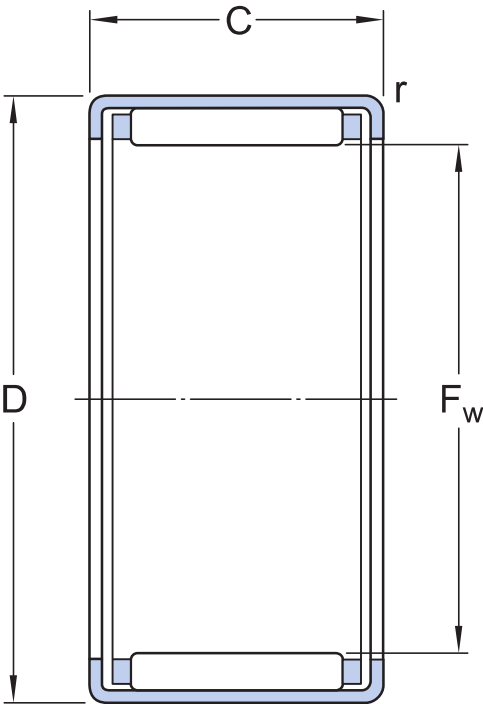
Properties

Bearing part	Bearing without inner ring
Number of rows	1
Outer ring type	Drawn cup with open ends
Aligning feature	Without
Cage	Sheet steel
Number of flanges, outer ring	2
Tolerance class	Normal
Material, bearing	Bearing steel
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

Logistics

Product net weight	0.014 kg
eClass code	23-05-09-03
UNSPSC code	31171512

Technical specification



Dimensions

F _w	22 mm	Diameter under rollers
D	28 mm	Outside diameter
C	12 mm	Width
r	min. 0.8 mm	Chamfer dimension drawn cup (outer ring)

Calculation data

Basic dynamic load rating	C	8.8 kN
Basic static load rating	C ₀	13.7 kN
Fatigue load limit	P _u	1.56 kN
Reference speed		11 000 r/min
Limiting speed		12 000 r/min

Associated products

Inner ring IR series	IR 17x22x13
Radial shaft seal with a low cross-sectional height, single lip	G 22x28x4

Radial shaft seal with a low cross-sectional height, double lip

SD 22x28x4

Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

- Tolerances: [table](#)

DESIGN CONSIDERATIONS

- [Shaft and housing tolerances: table](#)

Compatible products

Recommended product

Inner ring for needle roller bearings, IR series	IR 17X22X13
Radial shaft seal with low cross-sectional height for needle roller bearings, G design	G 22X28X4
Radial shaft seal with low cross-sectional height for needle roller bearings, SD design	SD 22X28X4

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 Bearing Select Engineering Calculator LubeSelect for SKF greases Heater Selection Tool skf.com/mount
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