



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

HK 5520

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	55 mm
Outside diameter	63 mm
Width	20 mm

Performance

Basic dynamic load rating	30.3 kN
Basic static load rating	67 kN
Reference speed	4 500 r/min
Limiting speed	5 000 r/min

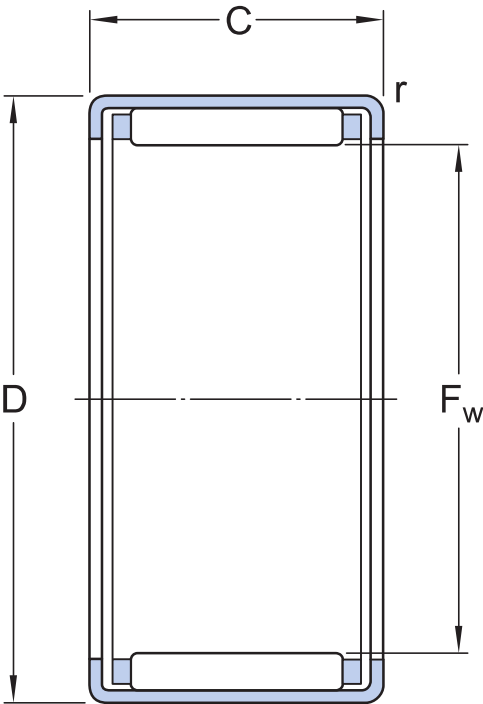
Properties

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	0.078 kg
eClass code	23-05-09-03
UNSPSC code	31171512

Technical specification



Dimensions

F _w	55 mm	Diameter under rollers
D	63 mm	Outside diameter
C	20 mm	Width
r	min. 0.8 mm	Chamfer dimension drawn cup (outer ring)

Calculation data

Basic dynamic load rating	C	30.3 kN
Basic static load rating	C ₀	67 kN
Fatigue load limit	P _u	8.3 kN
Reference speed		4 500 r/min
Limiting speed		5 000 r/min

Associated products

Inner ring LR series	LR 50x55x20.5
Radial shaft seal with a low cross-sectional height, single lip	G 55x63x5

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, LR series	LR 50X55X20.5
Radial shaft seal with low cross-sectional height for needle roller bearings, G design	G 55X63X5

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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