

HK 0509

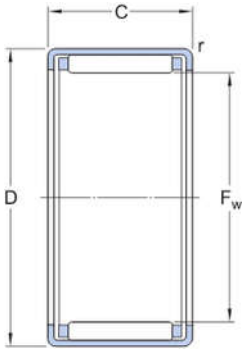
- Popular item

Drawn cup needle roller bearings

Bearing data
Tolerances,
table

Design considerations
Shaft and housing tolerances,
table

Technical specification



DIMENSIONS

F_w	5 mm	Diameter under rollers
D	9 mm	Outside diameter
C	9 mm	Width
r	min.0.4 mm	Chamfer dimension drawn cup (outer ring)

CALCULATION DATA

Basic dynamic load rating	C	2.38 kN
Basic static load rating	C_0	2.08 kN
Fatigue load limit	P_u	0.22 kN
Reference speed		22 000 r/min
Limiting speed		24 000 r/min

MASS

Mass bearing	0.002 kg

ASSOCIATED PRODUCTS

Radial shaft seal with a low cross-sectional height, single lip	G 5x9x2 S

More information

Product details

- Designs and variants
- Bearing data
- 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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