

HK 0709

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	7 mm
Outside diameter	11 mm
Width	9 mm

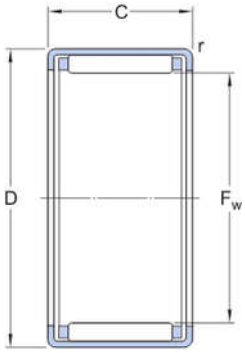
Performance

Basic dynamic load rating	3.03 kN
Basic static load rating	3.05 kN
Limiting speed	22 000 r/min
Reference speed	20 000 r/min

Properties

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

Technical Specification



Dimensions

F_w	7 mm	Diameter under rollers
D	11 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	3.03 kN
Basic static load rating	C_0	3.05 kN
Fatigue load limit	P_u	0.325 kN
Reference speed		20 000 r/min
Limiting speed		22 000 r/min

Mass

Mass bearing	0.0026 kg

Associated products

Radial shaft seal with a low cross-sectional height, single lip	G 7x11x2 S

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