



HK 1012 RSDrawn cup needle roller bearing with open ends and integral sealing

Drawn cup needle roller bearing with open ends and integral sealing

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. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out. Sealed bearings are delivered with an initial grease fill.

- High radial load carrying capacity
- High stiffness
- Very low cross-sectional height
- Sealed for increased reliability

Overview

Dimensions

Bore diameter of needle roller complement	10 mm
Outside diameter	14 mm
Width	12 mm

Performance

Basic dynamic load rating	4.29 kN
Basic static load rating	5.3 kN
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	Seal on one side
Sealing type	Contact
Lubricant	Grease
Relubrication feature	Without

Technical Specification



Dimensions

F_w	10 mm	Diameter under rollers
D	14 mm	Outside diameter
C	12 mm	Width
r	min. 0.4 mm	Chamfer dimension drawn cup (outer ring)

Calculation data

Basic dynamic load rating	C	4.29 kN
Basic static load rating	C_0	5.3 kN
Fatigue load limit	P_u	0.57 kN
Limiting speed		12 000 r/min

Mass

Mass bearing	0.0042 kg
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