



HK 1014.2RS

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	0.394 in
Outside diameter	0.551 in
Width	0.551 in

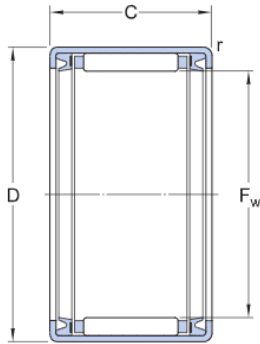
Performance

Basic dynamic load rating	964 lbf
Basic static load rating	1 191 lbf
Limiting speed	12 000 r/min

Properties

Aligning feature	Without
Bearing part	Bearing without inner ring
Cage	Sheet steel
Coating	Without
Lubricant	Grease
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	Seal on both sides
Sealing type	Contact
Tolerance class	Normal

Technical Specification



Dimensions

F_w	0.394 in	Diameter under rollers
D	0.551 in	Outside diameter
C	0.551 in	Width
r	min. 0.016 in	Chamfer dimension drawn cup (outer ring)

Calculation data

Basic dynamic load rating	C	964 lbf
Basic static load rating	C_0	1 191 lbf
Fatigue load limit	P_u	128 lbf
Limiting speed		12 000 r/min

Mass

Mass bearing		0.01 lb
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