

# HK 1412 Drawn cup needle roller bearing with open ends

## bearing with open ends

### 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	14 mm
Outside diameter	20 mm
Width	12 mm

### Performance

Basic dynamic load rating	6.82 kN
Basic static load rating	8.65 kN
Reference speed	15 000 r/min
Limiting speed	17 000 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

## Technical Specification



### Dimensions

$F_w$	14 mm	Diameter under rollers
D	20 mm	Outside diameter
C	12 mm	Width
r	min. 0.8 mm	Chamfer dimension drawn cup (outer ring)

### Calculation data

Basic dynamic load rating	C	6.82 kN
Basic static load rating	$C_0$	8.65 kN
Fatigue load limit	$P_u$	0.98 kN
Reference speed		15 000 r/min
Limiting speed		17 000 r/min

### Mass

Mass bearing	0.011 kg
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### Associated products

Inner ring IR series	IR 10x14x13
Radial shaft seal with a low cross-sectional height, single lip	G 14x20x3
Radial shaft seal with a low cross-sectional height, double lip	SD 14x20x3

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