



# HK 4020.2RS Drawn cup needle roller bearing with open ends and integral sealing

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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	40 mm
Outside diameter	47 mm
Width	20 mm

### Performance

Basic dynamic load rating	19 kN
Basic static load rating	39 kN
Limiting speed	4 500 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 both sides
Sealing type	Contact
Lubricant	Grease
Relubrication feature	Without

## Technical Specification



### Dimensions

$F_w$	40 mm	Diameter under rollers
D	47 mm	Outside diameter
C	20 mm	Width
r	min. 0.8 mm	Chamfer dimension drawn cup (outer ring)

### Calculation data

Basic dynamic load rating	C	19 kN
Basic static load rating	$C_0$	39 kN
Fatigue load limit	$P_u$	4.55 kN
Limiting speed		4 500 r/min

### Mass

Mass bearing	0.048 kg
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### Associated products

Inner ring IR series	IR 35x40x20.5
Inner ring LR series	LR 35x40x20.5

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