# HK 2512Drawn cup needle roller 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 | 25 mm |
| Outside diameter | 32 mm |
| Width | 12 mm |

### Performance

| | |
|---|---|
| Basic dynamic load rating | 10.5 kN |
| Basic static load rating | 15.3 kN |
| Reference speed | 9 500 r/min |
| Limiting speed | 11 000 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

| | | |
|---|---|---|
| $F_w$ | 25 mm | Diameter under rollers |
| D | 32 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 | 10.5 kN |
| Basic static load rating | $C_0$ | 15.3 kN |
| Fatigue load limit | $P_u$ | 1.76 kN |
| Reference speed | | 9 500 r/min |
| Limiting speed | | 11 000 r/min |

## Mass

| | |
|---|---|
| Mass bearing | 0.02 kg |

## Associated products

| | |
|---|---|
| Inner ring LR series | LR 20x25x12.5 |
| Radial shaft seal with a low cross-sectional height, single lip | G 25x32x4 |

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