

HK 3026

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	30 mm
Outside diameter	37 mm
Width	26 mm

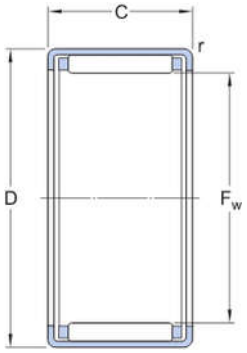
Performance

Basic dynamic load rating	27 kN
Basic static load rating	54 kN
Limiting speed	9 000 r/min
Reference speed	8 000 r/min

Properties

Aligning feature	Without
Bearing part	Bearing without inner ring
Cage	Sheet steel
Coating	Without
Lubricant	None
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	Without
Tolerance class	Normal

Technical Specification



Dimensions

F_w	30	mm	Diameter under rollers
D	37	mm	Outside diameter
C	26	mm	Width
r	min. 0.8	mm	Chamfer dimension drawn cup (outer ring)

Calculation data

Basic dynamic load rating	C	27 kN
Basic static load rating	C_0	54 kN
Fatigue load limit	P_u	6.55 kN
Reference speed		8 000 r/min
Limiting speed		9 000 r/min

Mass

Mass bearing	0.051 kg

Associated products

Inner ring IR series	IR 25x30x26.5
Inner ring LR series	LR 25x30x26.5
Radial shaft seal with a low cross-sectional height, single lip	G 30x37x4
Radial shaft seal with a low cross-sectional height, double lip	SD 30x37x4

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