

HK 1516

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	15 mm
Outside diameter	21 mm
Width	16 mm

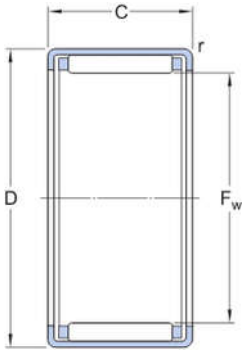
Performance

Basic dynamic load rating	10.1 kN
Basic static load rating	14.6 kN
Limiting speed	16 000 r/min
Reference speed	15 000 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	15	mm	Diameter under rollers
D	21	mm	Outside diameter
C	16	mm	Width
r	min. 0.8	mm	Chamfer dimension drawn cup (outer ring)

Calculation data

Basic dynamic load rating	C	10.1 kN
Basic static load rating	C_0	14.6 kN
Fatigue load limit	P_u	1.7 kN
Reference speed		15 000 r/min
Limiting speed		16 000 r/min

Mass

Mass bearing	0.015 kg

Associated products

Inner ring IR series	IR 12x15x16.5
Inner ring LR series	LR 12x15x16.5
Radial shaft seal with a low cross-sectional height, single lip	G 15x21x3
Radial shaft seal with a low cross-sectional height, double lip	SD 15x21x3

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