

HK 4516



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



Dimensions

F_w	45 mm	Diameter under rollers
D	52 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	20.5 kN
Basic static load rating	C_0	43 kN
Fatigue load limit	P_u	5.1 kN
Reference speed		5 600 r/min
Limiting speed		6 300 r/min

Associated products

Inner ring IR series	IR 40x45x17
Inner ring LR series	LR 40x45x16.5
Radial shaft seal with a low cross-sectional height, single lip	G 45x52x4

Radial shaft seal with a low cross-sectional height, double lip

SD 45x52x4

Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

- Tolerances: table

DESIGN CONSIDERATIONS

- Shaft and housing tolerances: table

AGA BEARINGS