

HK 4512



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	12 mm	Width
r	min. 0.8 mm	Chamfer dimension drawn cup (outer ring)

Calculation data

Basic dynamic load rating	C	14.2 kN
Basic static load rating	C_0	27.5 kN
Fatigue load limit	P_u	3.2 kN
Reference speed		5 600 r/min
Limiting speed		6 300 r/min

Associated products

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