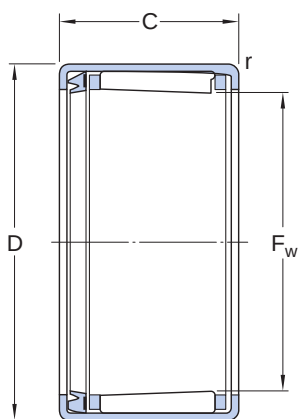


HK 4518 RS

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. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out. Sealed bearings are delivered with an initial grease fill.



- High radial load carrying capacity
- High stiffness
- Very low cross-sectional height
- Sealed for increased reliability



Dimensions

F_w	45 mm	Diameter under rollers
D	52 mm	Outside diameter
C	18 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
Limiting speed		4 000 r/min

Associated products

Inner ring IR series	IR 40x45x20.5
Inner ring LR series	LR 40x45x20.5

Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

- Tolerances: table

DESIGN CONSIDERATIONS

- Shaft and housing tolerances: table

AGA BEARINGS