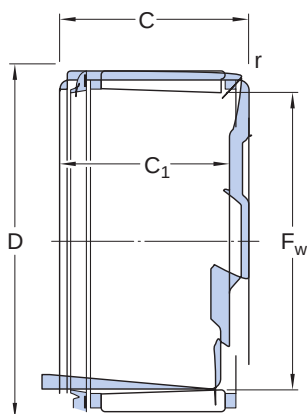


BK 1514 RS

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 the large number of rollers, the bearings have a high load carrying capacity and stiffness. The closed end makes them suitable for bearing arrangements where they are situated at the end of a shaft. 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
- Accommodate small axial guidance forces
- High stiffness
- Very low cross-sectional height
- Sealed at open end for increased reliability



Dimensions

F_w	15 mm	Diameter under rollers
D	21 mm	Outside diameter
C	14 mm	Width
C_1	min. 11.3 mm	Depth of the drawn cup BK
r	min. 0.8 mm	Chamfer dimension drawn cup (outer ring)

Calculation data

Basic dynamic load rating	C	7.48 kN
Basic static load rating	C_0	10 kN
Fatigue load limit	P_u	1.14 kN
Limiting speed		9 500 r/min

Associated products

Inner ring IR series	IR 12x15x16.5
Inner ring LR series	LR 12x15x16.5

Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

- Tolerances: table

DESIGN CONSIDERATIONS

- Shaft and housing tolerances: table

AGA BEARINGS