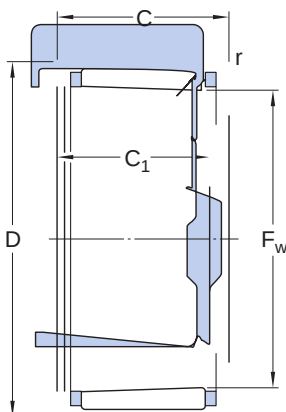


BK 0509



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.

- High radial load carrying capacity
- Accommodate small axial guidance forces
- High stiffness
- Very low cross-sectional height



Dimensions

F_w	5 mm	Diameter under rollers
D	9 mm	Outside diameter
C	9 mm	Width
C_1	min. 7.4 mm	Depth of the drawn cup BK
r	min. 0.4 mm	Chamfer dimension drawn cup (outer ring)

Calculation data

Basic dynamic load rating	C	2.38 kN
Basic static load rating	C_0	2.08 kN
Fatigue load limit	P_u	0.22 kN
Reference speed		22 000 r/min
Limiting speed		24 000 r/min

Associated products

Radial shaft seal with a low cross-sectional height, single lip	G 5x9x2 S
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Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

- Tolerances: table

DESIGN CONSIDERATIONS

- Shaft and housing tolerances: table

AGA BEARINGS