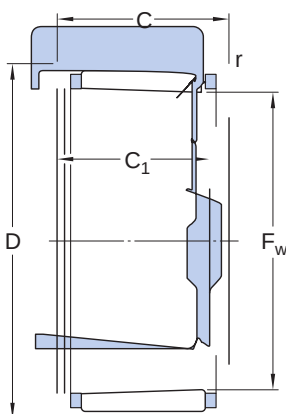


BK 3012



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	30 mm	Diameter under rollers
D	37 mm	Outside diameter
C	12 mm	Width
C_1	min. 9.3 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	11.7 kN
Basic static load rating	C_0	18.3 kN
Fatigue load limit	P_u	2.12 kN
Reference speed		8 000 r/min
Limiting speed		9 000 r/min

Associated products

Inner ring LR series	LR 25x30x12.5
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Radial shaft seal with a low cross-sectional height, single lip	G 30x37x4
Radial shaft seal with a low cross-sectional height, double lip	SD 30x37x4

Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

- Tolerances: table

DESIGN CONSIDERATIONS

- Shaft and housing tolerances: table

AGA BEARINGS