



Image may differ from product. See technical specification for details.

RNA 6916

Double row needle roller bearing with machined rings, with flanges, without an inner ring

Double row needle roller bearings without an inner ring consist of an outer ring with two needle roller and cage assemblies. They are an excellent choice for compact bearing arrangements in applications where hardened and ground raceways can be provided on the shaft. The outer ring includes flanges to guide the roller and cage assemblies and has

features to facilitate relubrication. The roller and cage assemblies and the outer ring form a non-separable unit.

- High radial load carrying capacity
- High stiffness
- Low cross-sectional height
- Accommodate axial displacement in both directions
- Enable a larger shaft diameter and a more rigid bearing arrangement

Overview

Dimensions

Bore diameter of needle roller complement	90 mm
Outside diameter	110 mm
Width	54 mm

Performance

Basic dynamic load rating	156 kN
Basic static load rating	315 kN
Reference speed	4 500 r/min
Limiting speed	5 000 r/min
SKF performance class	SKF Explorer

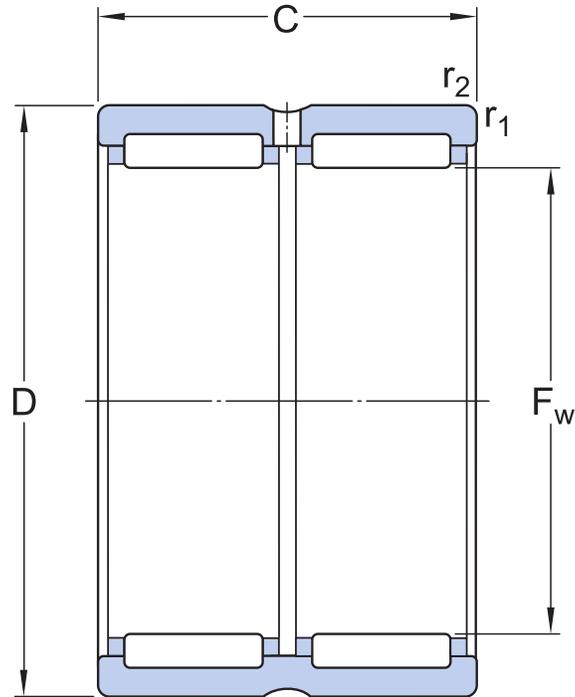
Properties

Bearing part	Bearing without inner ring
Number of rows	2
Outer ring type	Machined (solid)
Aligning feature	Without
Cage	Sheet steel
Number of flanges, outer ring	3
Tolerance class	Normal
Material, bearing	Bearing steel
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	With

Logistics

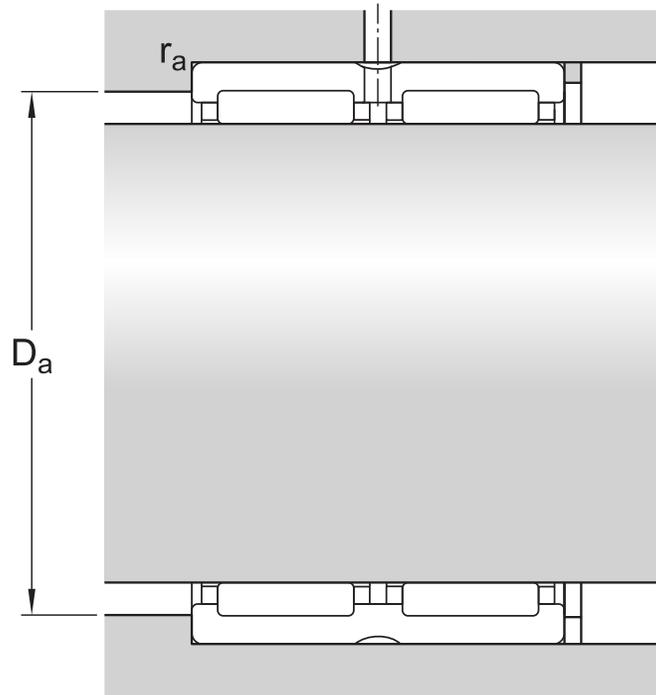
Product net weight	0.987 kg
eClass code	23-05-09-03
UNSPSC code	31171512

Technical specification



Dimensions

F _w	90 mm	Diameter under rollers
D	110 mm	Outside diameter
C	54 mm	Width
r _{1,2}	min. 1 mm	Chamfer dimension outer ring

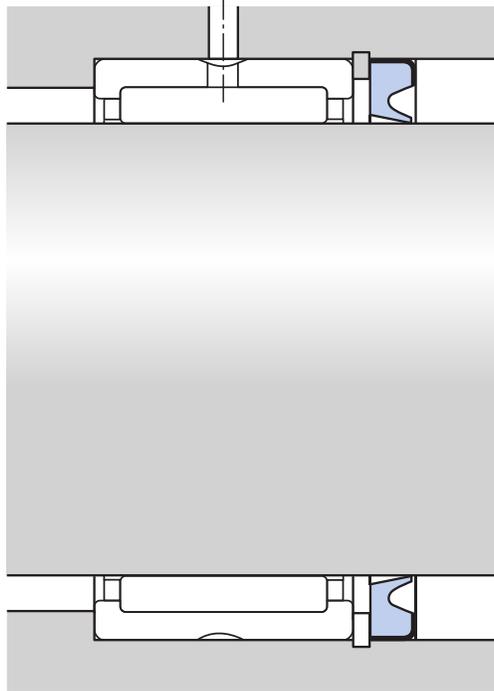


Abutment dimensions

D_a	max. 105 mm	Diameter of housing abutment
r_a	max. 1 mm	Fillet radius

Calculation data

SKF performance class		SKF Explorer
Basic dynamic load rating	C	156 kN
Basic static load rating	C_0	315 kN
Fatigue load limit	P_u	40 kN
Reference speed		4 500 r/min
Limiting speed		5 000 r/min



Associated seals

90x110x10 HMS5 RG

Radial shaft seal

Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

- Tolerances: Normal, P6, P5, ISO - F6 (F_w)
- Radial internal clearance: table

DESIGN CONSIDERATIONS

- [Housing tolerances: table](#)
- [Shaft tolerances: Operating clearance](#)

Compatible products

Recommended product

Radial shaft seal with rubber outside diameter and single sealing lip,
for oil or grease

[90X110X10 HMS5 RG](#)

More Information

 Product details	 Engineering information	 Tools
Designs and variants		SimPro Quick
General bearing specifications	Principles of rolling bearing selection	Bearing Select
Loads	General bearing knowledge	Engineering Calculator
Temperature limits	Bearing selection process	LubeSelect for SKF greases
Permissible speed	Bearing failure and how to prevent it	Heater Selection Tool
Design considerations		skf.com/mount
Designation system		



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