

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

RNA 6911

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	63 mm
Outside diameter	80 mm
Width	45 mm

Performance

Basic dynamic load rating	104 kN
Basic static load rating	190 kN
Reference speed	6 300 r/min
Limiting speed	7 000 r/min
SKF performance class	SKF Explorer

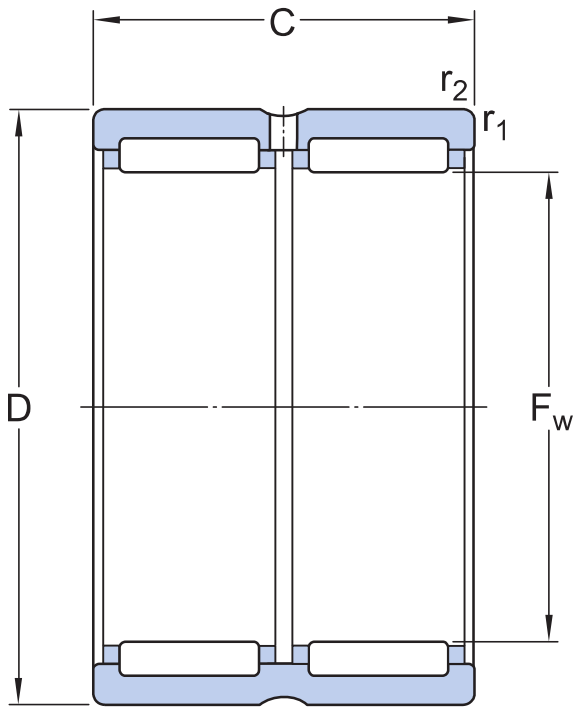
Properties

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
Indicative carbon footprint for new product	1.7 kg CO_2e

Logistics

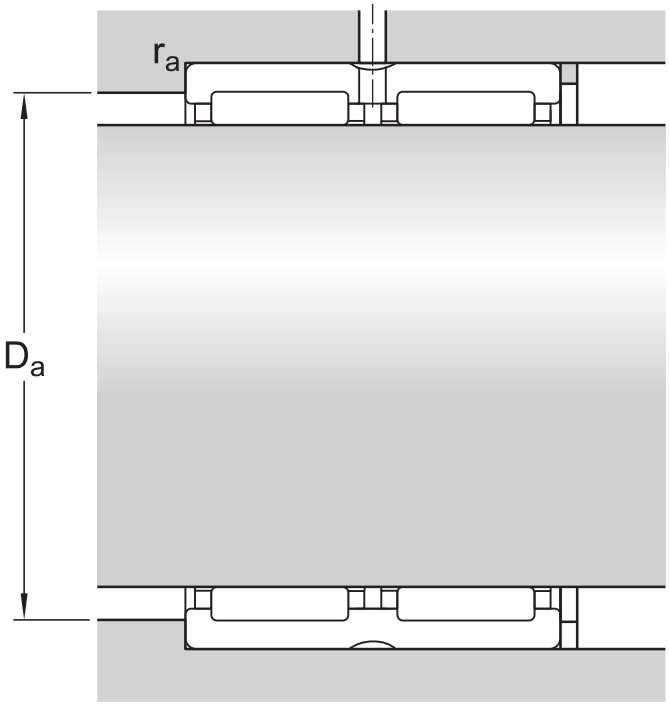
Product net weight	0.47 kg
eClass code	23-05-09-03
UNSPSC code	31171512

Technical specification



Dimensions

F_w	63 mm	Diameter under rollers
D	80 mm	Outside diameter
C	45 mm	Width
$r_{1,2}$	min. 1 mm	Chamfer dimension outer ring

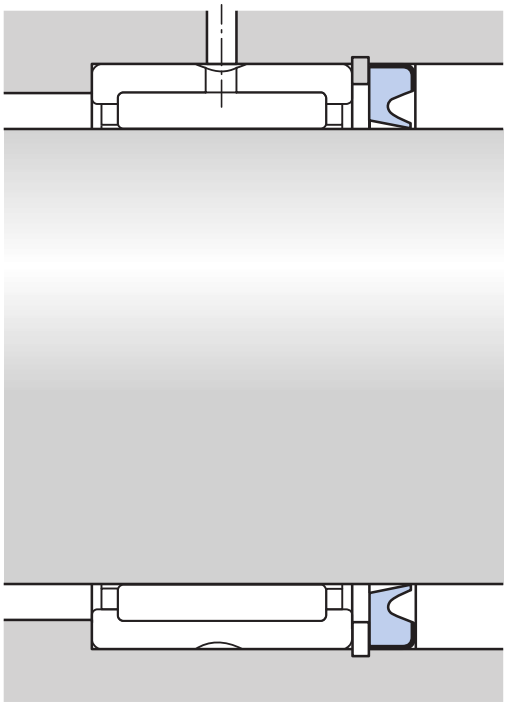


Abutment dimensions

D_a	max. 75 mm	Diameter of housing abutment
r_a	max. 1 mm	Fillet radius

Calculation data

SKF performance class		SKF Explorer
Basic dynamic load rating	C	104 kN
Basic static load rating	C_0	190 kN
Fatigue load limit	P_u	24 kN
Reference speed		6 300 r/min
Limiting speed		7 000 r/min



Associated seals

63x80x8 CRW1 R	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 metal case and SKF Wave lip, for oil or grease	63X80X8 CRW1 R

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