



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

RNA 6910

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 | 58 mm |
| Outside diameter | 72 mm |
| Width | 40 mm |

Performance

| | |
|---------------------------|--------------|
| Basic dynamic load rating | 85 kN |
| Basic static load rating | 150 kN |
| Reference speed | 7 000 r/min |
| Limiting speed | 8 000 r/min |
| SKF performance class | SKF Explorer |

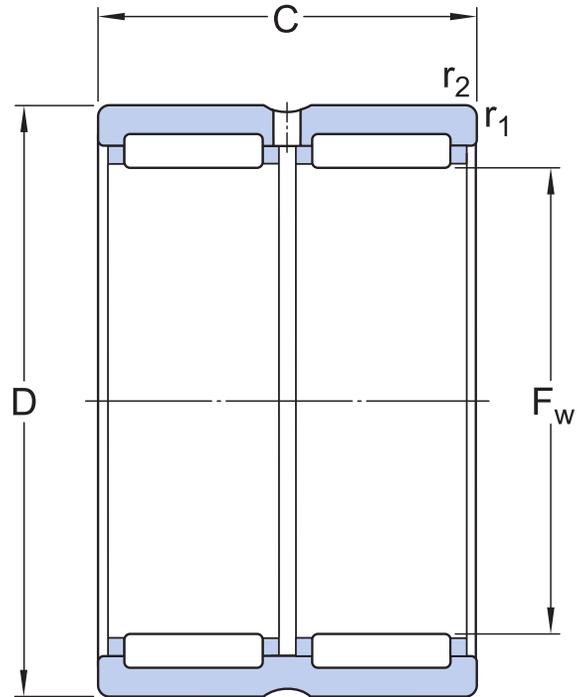
Properties

| | |
|-------------------------------|----------------------------|
| 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

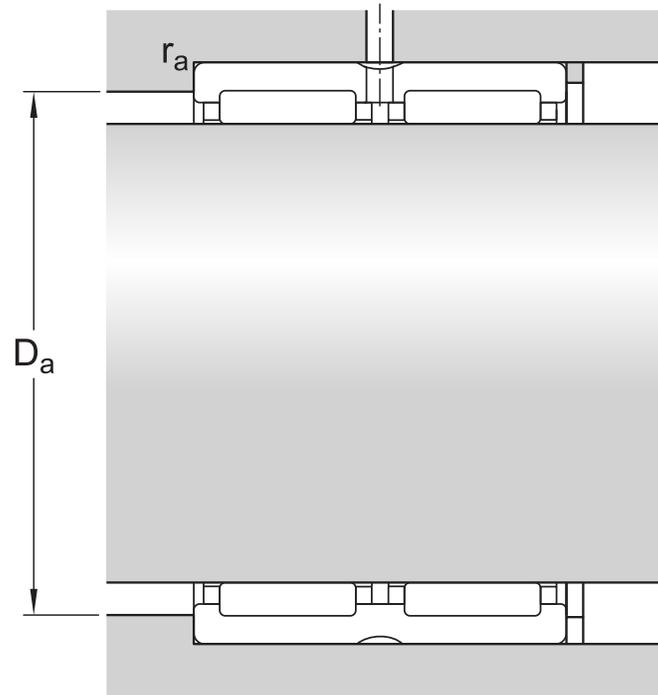
| | |
|--------------------|-------------|
| Product net weight | 0.31 kg |
| eClass code | 23-05-09-03 |
| UNSPSC code | 31171512 |

Technical specification



Dimensions

| | | |
|-----------|-------------|------------------------------|
| F_w | 58 mm | Diameter under rollers |
| D | 72 mm | Outside diameter |
| C | 40 mm | Width |
| $r_{1,2}$ | min. 0.6 mm | Chamfer dimension outer ring |

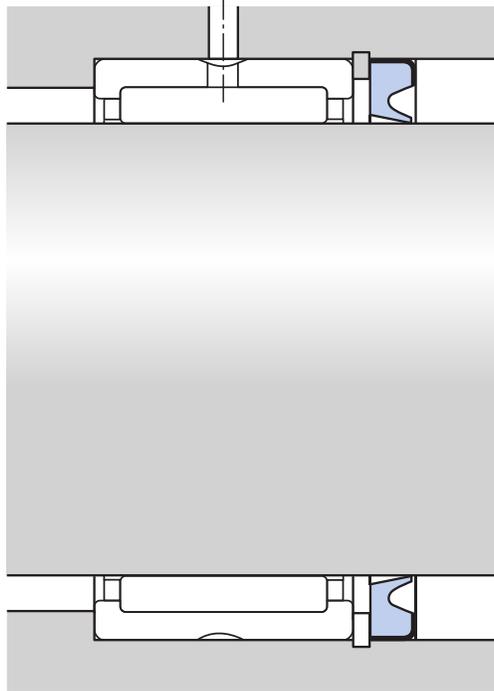


Abutment dimensions

| | | |
|-------|-------------|------------------------------|
| D_a | max. 68 mm | Diameter of housing abutment |
| r_a | max. 0.6 mm | Fillet radius |

Calculation data

| | | |
|---------------------------|-------|--------------|
| SKF performance class | | SKF Explorer |
| Basic dynamic load rating | C | 85 kN |
| Basic static load rating | C_0 | 150 kN |
| Fatigue load limit | P_u | 19 kN |
| Reference speed | | 7 000 r/min |
| Limiting speed | | 8 000 r/min |



Associated seals

58x72x8 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

[58X72X8 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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