



# RNA 6909 Double row needle roller bearing with machined rings, with flanges, without an inner ring

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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	52 mm
Outside diameter	68 mm
Width	40 mm

### Performance

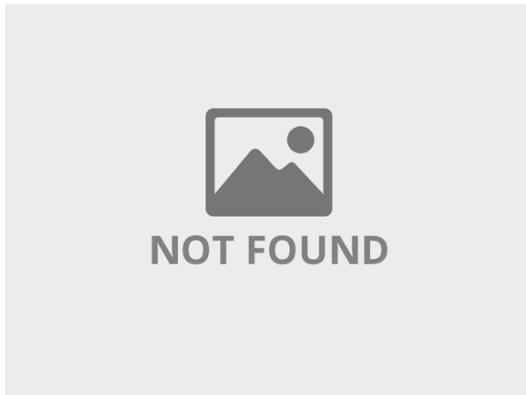
Basic dynamic load rating	70.4 kN
Basic static load rating	137 kN
Reference speed	7 500 r/min
Limiting speed	8 500 r/min

### 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

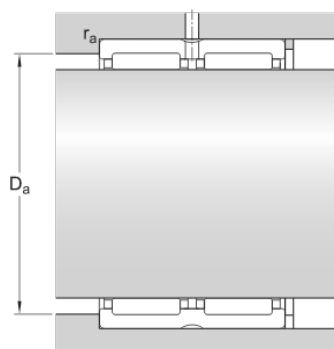
## Technical Specification



### Dimensions

$F_w$	52 mm	Diameter under rollers
$D$	68 mm	Outside diameter
$C$	40 mm	Width
$r_{1,2}$	min. 0.6 mm	Chamfer dimension outer ring

### Abutment dimensions



$D_a$	max. 64 mm	Abutment diameter housing (with flanges)
$r_a$	max. 0.6 mm	Fillet radius

### Calculation data

Basic dynamic load rating	$C$	70.4 kN
Basic static load rating	$C_0$	137 kN
Fatigue load limit	$P_u$	17 kN
Reference speed		7 500 r/min
Limiting speed		8 500 r/min

### Mass

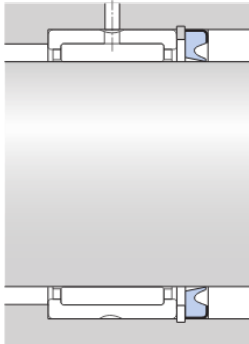
Mass bearing

0.34 kg

### Associated seals

52x68x8 HMS5 RG

Radial shaft seal



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