



# RNA 6907 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	42 mm
Outside diameter	55 mm
Width	36 mm

### Performance

Basic dynamic load rating	48.4 kN
Basic static load rating	93 kN
Reference speed	9 500 r/min
Limiting speed	11 000 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

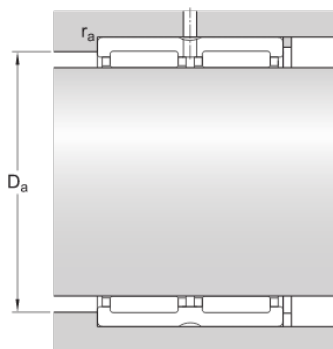
# Technical Specification



## Dimensions

$F_w$	42 mm	Diameter under rollers
$D$	55 mm	Outside diameter
$C$	36 mm	Width
$r_{1,2}$	min. 0.6 mm	Chamfer dimension outer ring

## Abutment dimensions



$D_a$	max. 51 mm	Abutment diameter housing (with flanges)
$r_a$	max. 0.6 mm	Fillet radius

## Calculation data

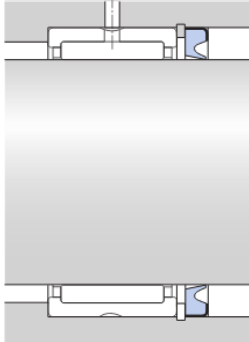
Basic dynamic load rating	$C$	48.4 kN
Basic static load rating	$C_0$	93 kN
Fatigue load limit	$P_u$	11.4 kN
Reference speed		9 500 r/min
Limiting speed		11 000 r/min

## Mass

Mass bearing

0.19 kg

### Associated seals



42x55x7 HMS5 RG

Radial shaft seal

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