



RNA 6916 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	90 mm
Outside diameter	110 mm
Width	54 mm

Performance

Basic dynamic load rating	134 kN
Basic static load rating	315 kN
Reference speed	4 500 r/min
Limiting speed	5 000 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

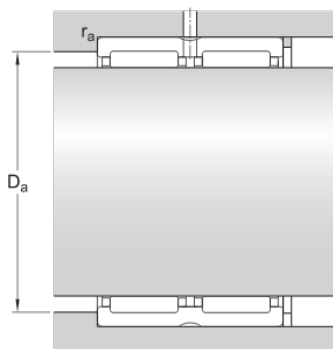


Dimensions

F_w	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	Abutment diameter housing (with flanges)
r_a	max. 1 mm	Fillet radius



Calculation data

Basic dynamic load rating	C	134 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

Mass

Mass bearing

0.99 kg

Associated seals

90x110x10 HMS5 RG

Radial shaft seal



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