

RNA 6908 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	48 mm
Outside diameter	62 mm
Width	40 mm

Performance

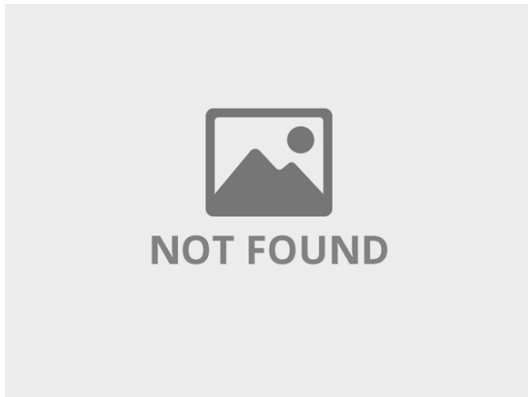
Basic dynamic load rating	67.1 kN
Basic static load rating	125 kN
Reference speed	8 000 r/min
Limiting speed	9 500 r/min

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

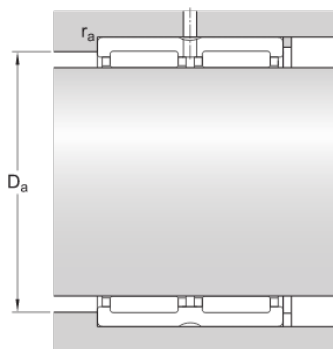
Technical Specification



Dimensions

F_w	48 mm	Diameter under rollers
D	62 mm	Outside diameter
C	40 mm	Width
$r_{1,2}$	min. 0.6 mm	Chamfer dimension outer ring

Abutment dimensions



D_a	max. 58 mm	Abutment diameter housing (with flanges)
r_a	max. 0.6 mm	Fillet radius

Calculation data

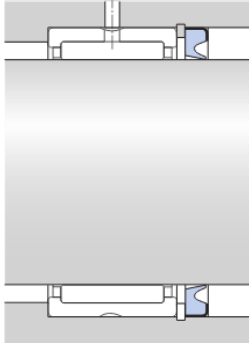
Basic dynamic load rating	C	67.1 kN
Basic static load rating	C_0	125 kN
Fatigue load limit	P_u	15.3 kN
Reference speed		8 000 r/min
Limiting speed		9 500 r/min

Mass

Mass bearing

0.26 kg

Associated seals



48x62x8 HMS5 RG

Radial shaft seal

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