



RNA 69/32 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	40 mm
Outside diameter	52 mm
Width	36 mm

Performance

Basic dynamic load rating	47.3 kN
Basic static load rating	90 kN
Reference speed	10 000 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

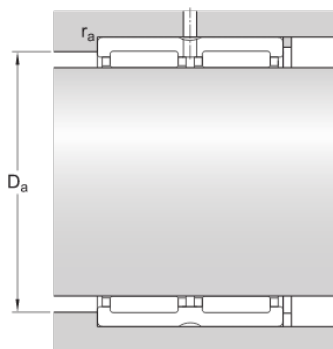
Technical Specification



Dimensions

F_w	40 mm	Diameter under rollers
D	52 mm	Outside diameter
C	36 mm	Width
$r_{1,2}$	min. 0.6 mm	Chamfer dimension outer ring

Abutment dimensions



D_a	max. 48 mm	Abutment diameter housing (with flanges)
r_a	max. 0.6 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	47.3 kN
Basic static load rating	C_0	90 kN
Fatigue load limit	P_u	10.8 kN
Reference speed		10 000 r/min
Limiting speed		11 000 r/min

Mass

Mass bearing

0.16 kg

Associated seals



G 40x52x5	Radial shaft seal with a low cross-sectional height, single lip
SD 40x52x5	Radial shaft seal with a low cross-sectional height, double lip

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