



RNA 4907.2RS Single row needle roller bearing with machined rings, with flanges and integral sealing,

without inner ring

Single row needle roller bearing with machined rings, with flanges and integral sealing, without inner ring

Single row needle roller bearings without an inner ring consist of an outer ring with a needle roller and cage assembly. 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 two integral flanges to guide the bearing axially and an annular groove with one or more lubrication holes to facilitate relubrication.

- High radial load carrying capacity
- High stiffness
- Low cross-sectional height
- Accommodate axial displacement in both directions
- Integral sealing prolongs bearing service life

Overview

Dimensions

Bore diameter of needle roller complement	42 mm
Outside diameter	55 mm
Width	20 mm

Performance

Basic dynamic load rating	27 kN
Basic static load rating	43 kN
Limiting speed	4 800 r/min

Properties

Bearing part	Bearing without inner ring
Number of rows	1
Outer ring type	Machined (solid)
Aligning feature	Without
Cage	Sheet steel
Number of flanges, outer ring	2
Tolerance class	Normal
Material, bearing	Bearing steel

Coating	Without
Sealing	Seal on both sides
Sealing type	Contact
Lubricant	Grease
Relubrication feature	With

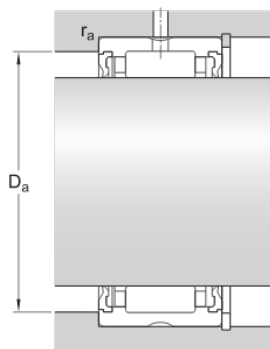
Technical Specification



Dimensions

F_w	42 mm	Diameter under rollers
D	55 mm	Outside diameter
C	20 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	27 kN
Basic static load rating	C_0	43 kN
Fatigue load limit	P_u	5.3 kN
Limiting speed		4 800 r/min

Mass

Mass bearing	0.11 kg
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