

RNA 4908.2RS



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	48 mm
Outside diameter	62 mm
Width	22 mm

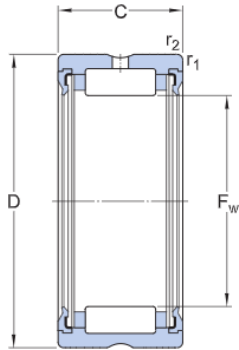
Performance

Basic dynamic load rating	36.9 kN
Basic static load rating	58.5 kN
Limiting speed	4 000 r/min

Properties

Aligning feature	Without
Bearing part	Bearing without inner ring
Cage	Sheet steel
Coating	Without
Lubricant	Grease
Material, bearing	Bearing steel
Number of flanges, outer ring	2
Number of rows	1
Outer ring type	Machined (solid)
Relubrication feature	With
Sealing	Seal on both sides
Sealing type	Contact
Tolerance class	Normal

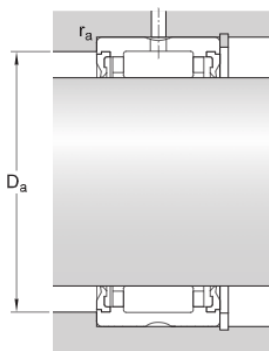
Technical Specification



Dimensions

F _w	48 mm	Diameter under rollers
D	62 mm	Outside diameter
C	22 mm	Width
r _{1,2}	min. 0.6 mm	Chamfer dimension outer ring

Abutment dimensions



D _z	max. 58 mm	Abutment diameter housing (with flanges)
r _a	max. 0.6 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	36.9 kN
Basic static load rating	C ₀	58.5 kN
Fatigue load limit	P _u	7.1 kN
Limiting speed		4 000 r/min

Mass

Mass bearing	0.15 kg
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