

RNA 4836



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



Dimensions		
F _w	195 mm	Diameter under rollers
D	225 mm	Outside diameter
C	45 mm	Width
r _{1,2}	min. 1.1 mm	Chamfer dimension outer ring



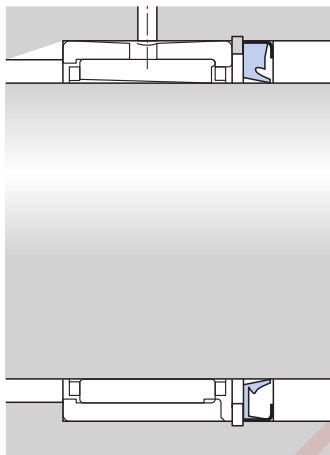
Abutment dimensions		
D _a	max. 218.5 mm	Diameter of housing abutment
r _a	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	190 kN
Basic static load rating	C ₀	570 kN

Fatigue load limit	P_u	60 kN
Reference speed		2 000 r/min
Limiting speed		2 400 r/min

Associated seals



Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

- Tolerances: Normal, P6, P5, ISO - F6 (F_w)
- Radial internal clearance: table

DESIGN CONSIDERATIONS

- Housing tolerances: table
- Shaft tolerances: Operating clearance