

RNA 4832

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	175 mm	Diameter under rollers
D	200 mm	Outside diameter
C	40 mm	Width
$r_{1,2}$	min. 1.1 mm	Chamfer dimension outer ring



Abutment dimensions		
D_a	max. 193.5 mm	Diameter of housing abutment
r_a	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	157 kN
Basic static load rating	C_0	450 kN

Fatigue load limit	P_u	49 kN
Reference speed		2 200 r/min
Limiting speed		2 600 r/min



Associated seals	
175x200x15 HMS5 RG	Radial shaft seal

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