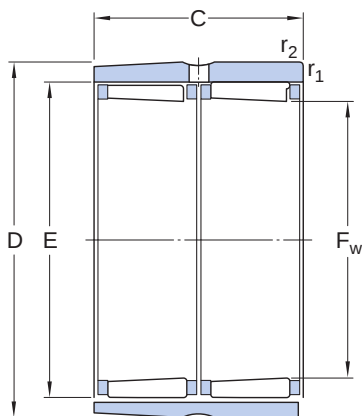


RNAO 40X55X40

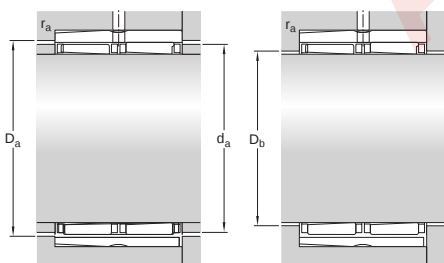
Double row needle roller bearings without an inner ring and without flanges consist of an outer ring with two needle roller and cage assemblies. They are an excellent choice for compact bearing arrangements in applications where hardened and ground raceways can be provided on the shaft. Bearings without flanges on the outer ring are separable, i.e. the outer ring and the needle roller and cage assemblies can be mounted separately. The outer ring includes features to facilitate relubrication.



- High radial load carrying capacity
- High stiffness and low cross-sectional height
- Accommodate axial displacement in both directions
- Separable design
- Enable a larger shaft diameter and a more rigid bearing arrangement



Dimensions		
F _w	40 mm	Diameter under rollers
D	55 mm	Outside diameter
C	40 mm	Width
E	48 mm	Raceway diameter outer ring
r _{1,2}	min. 0.3 mm	Chamfer dimension outer ring



Abutment dimensions		
d _a	47.2 mm	Smallest permissible abutment diameter shaft, bearings without flanges
D _a	47.5 mm	Diameter of housing abutment
D _b	40.6 mm	Smallest permissible abutment diameter housing, bearings without flanges
r _a	max. 0.3 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	59.4 kN
Basic static load rating	C ₀	118 kN
Fatigue load limit	P _u	14.6 kN
Reference speed		10 000 r/min
Limiting speed		11 000 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