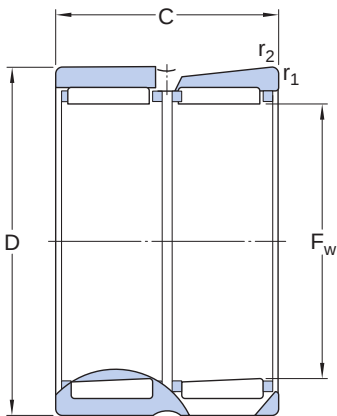


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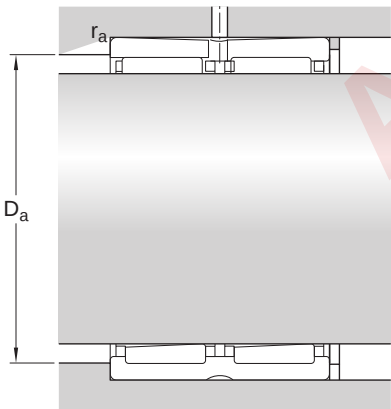
Double row needle roller bearings without an inner ring consist of an outer ring with two needle roller and cage assemblies. They are an excellent choice for compact bearing arrangements in applications where hardened and ground raceways can be provided on the shaft. The outer ring includes flanges to guide the roller and cage assemblies and has features to facilitate relubrication. The roller and cage assemblies and the outer ring form a non-separable unit.



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



Dimensions		
F_w	40 mm	Diameter under rollers
D	52 mm	Outside diameter
C	36 mm	Width
$r_{1,2}$	min. 0.6 mm	Chamfer dimension outer ring



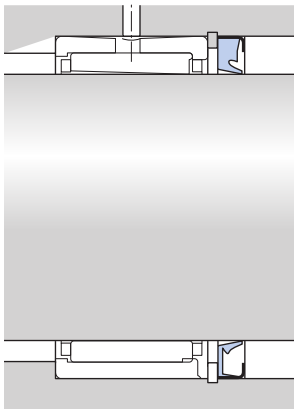
Abutment dimensions		
D_a	max. 48 mm	Diameter of housing abutment
r_a	max. 0.6 mm	Fillet radius

Calculation data

AGA performance class

AGA Explorer

Basic dynamic load rating	C	55 kN
Basic static load rating	C ₀	90 kN
Fatigue load limit	P _u	11.2 kN
Reference speed		10 000 r/min
Limiting speed		11 000 r/min



Associated seals

G 40x52x5

Radial shaft seal
with a low cross-
sectional height,
single lip

SD 40x52x5

Radial shaft seal
with a low cross-
sectional height,
double lip

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