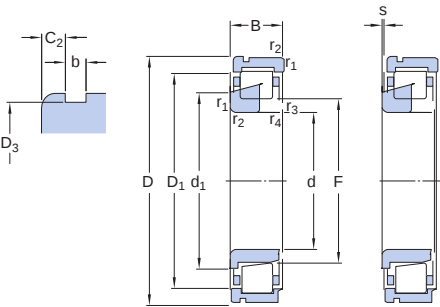


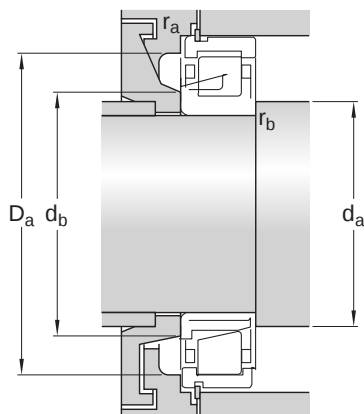
NJ 2209 ECNJ

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An annular groove in the outer ring enables the bearings to retain a snap ring. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design



Dimensions		
d	45 mm	Bore diameter
D	85 mm	Outside diameter
B	23 mm	Width
d ₁	≈ 59 mm	Shoulder diameter of inner ring
D ₁	≈ 72.4 mm	Shoulder diameter of outer ring
D ₃	81.81 mm	Diameter of snap ring groove
F	54.5 mm	Raceway diameter of inner ring
C ₂	3.28 mm	Distance from outer ring side face to snap ring groove
b	1.9 mm	Width of snap ring groove
r _{1,2}	min. 1.1 mm	Chamfer dimension
r _{3,4}	min. 1.1 mm	Chamfer dimension
s	max. 1.7 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 52 mm	Diameter of spacer sleeve
d_a	max. 53 mm	Diameter of spacer sleeve
d_b	min. 61 mm	Diameter of shaft abutment
D_a	max. 77.6 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet
r_b	max. 1 mm	Radius of fillet

Calculation data

AGA performance class		AGA Explorer
Basic dynamic load rating	C	85 kN
Basic static load rating	C_0	81.5 kN
Fatigue load limit	P_u	10.6 kN
Reference speed		9 000 r/min
Limiting speed		9 500 r/min
Minimum load factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

- Tolerances: Normal ($\emptyset$), P6, Normal (inch)
- Radial internal clearance: cylindrical bore, tapered bore
- Axial internal clearance: NUP, NJ + HJ

BEARING INTERFACES

- Seat tolerances for standard conditions
- Tolerances and resultant fit

AGA BEARINGS