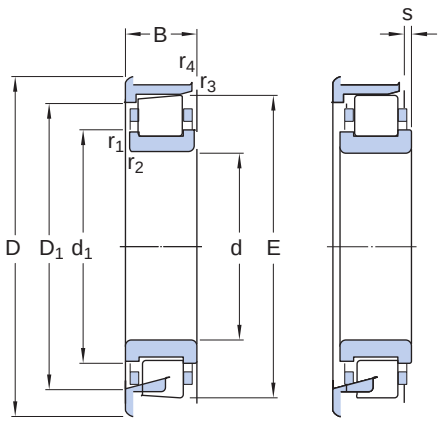
NF 307 ECP

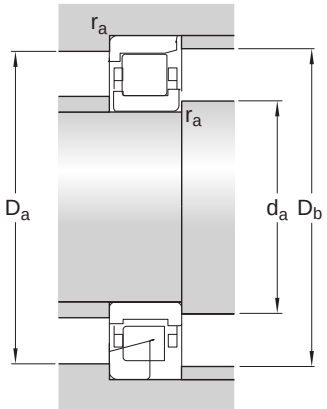
Single row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The NR assortment includes many designs and variants, such as standard, full complement and high capacity bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life



Dimensions

d	35 mm	Bore diameter
D	80 mm	Outside diameter
B	21 mm	Width
d_1	≈ 51 mm	Shoulder diameter of inner ring
D_1	≈ 65.8 mm	Shoulder diameter of outer ring
E	70.2 mm	Raceway diameter of outer ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1.2 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 43 mm	Diameter of spacer sleeve
D_a	max. 72.2 mm	Diameter of housing abutment
D_b	min. 71.8 mm	Diameter of housing abutment
r_a	max. 1.5 mm	Radius of fillet

Calculation data

AGA performance class		AGA Explorer
Basic dynamic load rating	C	75 kN
Basic static load rating	C_0	63 kN
Fatigue load limit	P_u	8.15 kN
Reference speed		9 500 r/min
Limiting speed		11 000 r/min
Minimum load factor	k_r	0.12
Limiting value	e	0.2
Calculation factor	Y	0.6

Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

- Tolerances: Normal (), 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