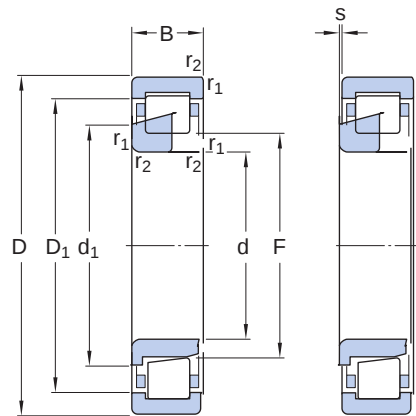


NJ 2980 ECMA

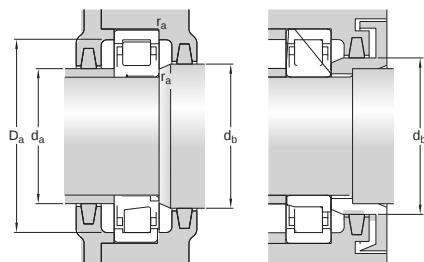
Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable 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	400 mm	Bore diameter
D	540 mm	Outside diameter
B	82 mm	Width
d ₁	≈ 448 mm	Shoulder diameter of inner ring
D ₁	≈ 495 mm	Shoulder diameter of outer ring
F	435 mm	Raceway diameter of inner ring
r _{1,2}	min. 4 mm	Chamfer dimension
s	max. 0.9 mm	Permissible axial displacement



Abutment dimensions		
d _a	min. 415 mm	Diameter of spacer sleeve
d _a	max. 430 mm	Diameter of spacer sleeve
d _b	min. 454 mm	Diameter of shaft abutment
D _a	max. 525 mm	Diameter of housing abutment

r_a	max. 3 mm	Radius of fillet
r_a	max. 3 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	1 380 kN
Basic static load rating	C_0	2 800 kN
Fatigue load limit	P_u	245 kN
Reference speed		1 200 r/min
Limiting speed		1 600 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.3
Calculation factor	Y	0.4

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