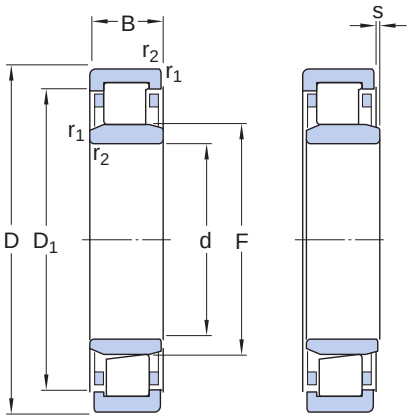
NU 1968 ECMA

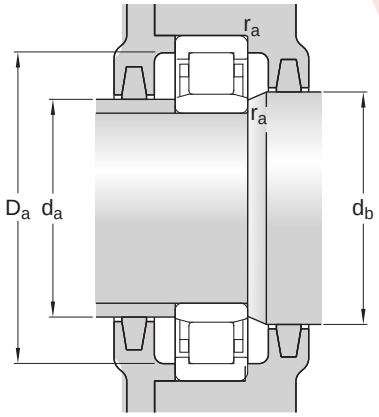
Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design



Dimensions

d	340 mm	Bore diameter
D	460 mm	Outside diameter
B	56 mm	Width
D_1	≈ 421 mm	Shoulder diameter of outer ring
F	370 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 3 mm	Chamfer dimension
s	max. 1.8 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 353 mm	Diameter of spacer sleeve
d_a	max. 365 mm	Diameter of spacer sleeve
d_b	min. 374 mm	Diameter of shaft abutment
D_a	max. 447 mm	Diameter of housing abutment
r_a	max. 2.5 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	682 kN
Basic static load rating	C_0	1 200 kN
Fatigue load limit	P_u	108 kN
Reference speed		1 400 r/min
Limiting speed		1 900 r/min
Minimum load factor	k_r	0.07
Limiting value	e	0.2
Calculation factor	Y	0

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