

NU 20/850 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	850 mm	Bore diameter
D	1 220 mm	Outside diameter
B	212 mm	Width
D ₁	≈ 1 110 mm	Shoulder diameter of outer ring
F	942 mm	Raceway diameter of inner ring
r _{1,2}	min. 7.5 mm	Chamfer dimension
s	max. 2 mm	Permissible axial displacement



Abutment dimensions		
da	min. 878 mm	Diameter of spacer sleeve
da	max. 936 mm	Diameter of spacer sleeve
db	min. 956 mm	Diameter of shaft abutment
Da	max. 1 190 mm	Diameter of housing abutment
ra	max. 6 mm	Radius of fillet

r_a	max. 6 mm	Radius of fillet
r_b	max. 6 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	8 420 kN
Basic static load rating	C_0	18 600 kN
Fatigue load limit	P_u	1 200 kN
Reference speed		360 r/min
Limiting speed		560 r/min
Minimum load factor	k_r	0.17
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