

NU 19/900 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	900 mm	Bore diameter
D	1 180 mm	Outside diameter
B	122 mm	Width
D ₁	≈ 1 095 mm	Shoulder diameter of outer ring
F	966.5 mm	Raceway diameter of inner ring
r _{1,2}	min. 6 mm	Chamfer dimension
s	max. 4.1 mm	Permissible axial displacement



Abutment dimensions		
da	min. 923 mm	Diameter of spacer sleeve
da	max. 957 mm	Diameter of spacer sleeve
db	min. 973 mm	Diameter of shaft abutment
Da	max. 1 157 mm	Diameter of housing abutment
ra	max. 5 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	4 130 kN
Basic static load rating	C ₀	8 800 kN
Fatigue load limit	P _u	560 kN
Reference speed		430 r/min
Limiting speed		560 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