

NU 29/500 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	500 mm	Bore diameter
D	670 mm	Outside diameter
B	100 mm	Width
D ₁	≈ 619 mm	Shoulder diameter of outer ring
F	539.5 mm	Raceway diameter of inner ring
r _{1,2}	min. 5 mm	Chamfer dimension
s	max. 3 mm	Permissible axial displacement



Abutment dimensions		
d _a	min. 518 mm	Diameter of spacer sleeve
d _a	max. 534 mm	Diameter of spacer sleeve
d _b	min. 549 mm	Diameter of shaft abutment
D _a	max. 652 mm	Diameter of housing abutment
r _a	max. 4 mm	Radius of fillet

r_a	max. 4 mm	Radius of fillet
r_b	max. 4 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	2 050 kN
Basic static load rating	C_0	4 250 kN
Fatigue load limit	P_u	355 kN
Reference speed		900 r/min
Limiting speed		1 200 r/min
Minimum load factor	k_r	0.1
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