

NU 31/500 ECMA/HB1

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	830 mm	Outside diameter
B	264 mm	Width
D ₁	≈ 728 mm	Shoulder diameter of outer ring
F	576 mm	Raceway diameter of inner ring
r _{1,2}	min. 7.5 mm	Chamfer dimension
s	max. 14.5 mm	Permissible axial displacement



Abutment dimensions		
da	min. 532 mm	Diameter of spacer sleeve
da	max. 564 mm	Diameter of spacer sleeve
db	min. 581 mm	Diameter of shaft abutment
Da	max. 798 mm	Diameter of housing abutment
ra	max. 6 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	6 440 kN
Basic static load rating	C ₀	12 000 kN
Fatigue load limit	P _u	880 kN
Reference speed		600 r/min
Limiting speed		1 000 r/min
Minimum load factor	k _r	0.21
Limiting value	e	0.3
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