

NU 3156 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	280 mm	Bore diameter
D	460 mm	Outside diameter
B	146 mm	Width
D ₁	≈ 406 mm	Shoulder diameter of outer ring
F	321 mm	Raceway diameter of inner ring
r _{1,2}	min. 5 mm	Chamfer dimension
s	max. 9.6 mm	Permissible axial displacement



Abutment dimensions		
d _a	min. 300 mm	Diameter of spacer sleeve
d _a	max. 316 mm	Diameter of spacer sleeve
d _b	min. 325 mm	Diameter of shaft abutment
D _a	max. 440 mm	Diameter of housing abutment
r _a	max. 4 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	2 290 kN
Basic static load rating	C ₀	3 900 kN
Fatigue load limit	P _u	335 kN
Reference speed		1 200 r/min
Limiting speed		2 000 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