NU 2256 ECMASingle row cylindrical roller bearing, NU design

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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

Overview

Dimensions

Bore diameter	280 mm
Outside diameter	500 mm
Width	130 mm

Performance

Basic dynamic load rating	2 200 kN
Basic static load rating	3 450 kN
Reference speed	1 200 r/min
Limiting speed	1 900 r/min

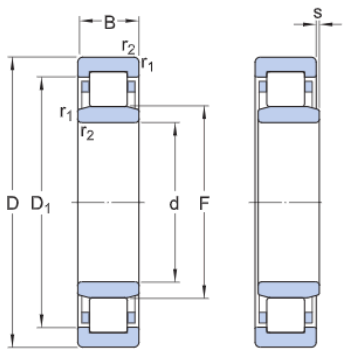
Properties

Bearing part	Complete bearing
Axial displacement capability	In both directions
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Machined metal
Number of flanges, outer ring	2
Number of flanges, inner ring	0
Loose flange	None
Radial internal clearance	CN
Coating	Without
Sealing	Without
Lubricant	None

Relubrication feature	Without

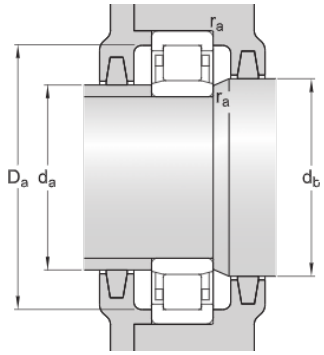
Technical Specification

Dimensions



d	280 mm	Bore diameter
D	500 mm	Outside diameter
B	130 mm	Width
D_1	≈ 433 mm	Shoulder diameter of outer ring
F	333 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 5 mm	Chamfer dimension
s	max. 10.2 mm	Permissible axial displacement

Abutment dimensions



d_a	min. 300 mm	Diameter of spacer sleeve
d_a	max. 320 mm	Diameter of spacer sleeve
d_b	min. 331 mm	Diameter of shaft abutment
D_a	max. 480 mm	Diameter of housing abutment
r_a	max. 4 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	2 200 kN
Basic static load rating	C_0	3 450 kN
Fatigue load limit	P_u	305 kN
Reference speed		1 200 r/min
Limiting speed		1 900 r/min
Minimum load factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	115 kg

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