

# NU 252 MA



## Single row cylindrical roller bearing, NU design

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	260 mm
Outside diameter	480 mm
Width	80 mm

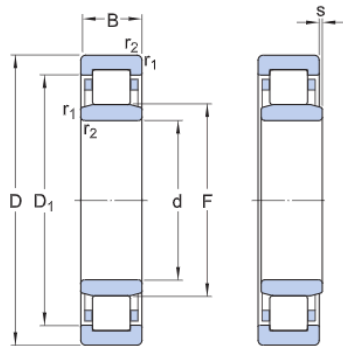
### Performance

Basic dynamic load rating	1 170 kN
Basic static load rating	1 700 kN
Reference speed	1 400 r/min
Limiting speed	2 000 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

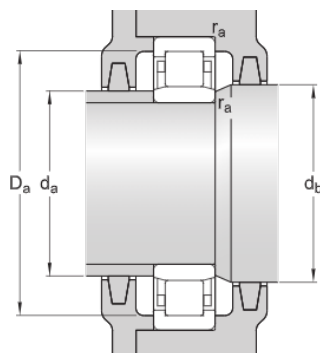
## Technical Specification



### Dimensions

d	260 mm	Bore diameter
D	480 mm	Outside diameter
B	80 mm	Width
D <sub>1</sub>	≈ 397 mm	Shoulder diameter of outer ring
F	320 mm	Raceway diameter of inner ring
r <sub>1,2</sub>	min. 5 mm	Chamfer dimension
s	max. 3.4 mm	Permissible axial displacement

### Abutment dimensions



d <sub>a</sub> min.	280 mm	Diameter of spacer sleeve
d <sub>a</sub> max.	313 mm	Diameter of spacer sleeve
d <sub>b</sub> min.	324 mm	Diameter of shaft abutment
D <sub>a</sub> max.	460 mm	Diameter of housing abutment
r <sub>a</sub> max.	4 mm	Radius of fillet

## Calculation data

Basic dynamic load rating	C	1 170 kN
Basic static load rating	C <sub>0</sub>	1 700 kN
Fatigue load limit	P <sub>u</sub>	150 kN
Reference speed		1 400 r/min
Limiting speed		2 000 r/min
Minimum load factor	k <sub>r</sub>	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

## Mass

Mass	68.5 kg
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