

# NU 1040 ML Single 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	200 mm
Outside diameter	310 mm
Width	51 mm

### Performance

Basic dynamic load rating	440 kN
Basic static load rating	570 kN
Reference speed	2 400 r/min
Limiting speed	3 600 r/min
SKF performance class	SKF Explorer

### 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
Tolerance class	Normal
Coating	Without
Sealing	Without

Lubricant

None

Relubrication feature

Without

# Technical Specification

SKF performance class

SKF Explorer



## Dimensions

d	200 mm	Bore diameter
D	310 mm	Outside diameter
B	51 mm	Width
$D_1$	≈ 269 mm	Shoulder diameter of outer ring
F	229 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 2.1 mm	Chamfer dimension
$r_{3,4}$	min. 2.1 mm	Chamfer dimension
s	max. 7 mm	Permissible axial displacement

## Abutment dimensions

$d_a$	min. 211 mm	Diameter of spacer sleeve
$d_a$	max. 225 mm	Diameter of spacer sleeve
$d_b$	min. 234 mm	Diameter of shaft abutment
$D_a$	max. 300 mm	Diameter of housing abutment
$r_a$	max. 2 mm	Radius of fillet
$r_b$	max. 2 mm	Radius of fillet



## Calculation data

Basic dynamic load rating	C	440 kN
Basic static load rating	$C_0$	570 kN
Fatigue load limit	$P_u$	58.5 kN

Reference speed		2 400 r/min
Limiting speed		3 600 r/min
Minimum load factor	$k_r$	0.15
Limiting value	$e$	0.2
Calculation factor	$\gamma$	0.6

## Mass

Mass		13.9 kg
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## Associated products

Angle ring		HJ 1040
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