

# NU 1038 ML Single row cylindrical roller bearing, NU design

## 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	190 mm
Outside diameter	290 mm
Width	46 mm

### Performance

Basic dynamic load rating	400 kN
Basic static load rating	500 kN
Reference speed	2 600 r/min
Limiting speed	3 800 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	190 mm	Bore diameter
D	290 mm	Outside diameter
B	46 mm	Width
$D_1$	$\approx 256.1$ mm	Shoulder diameter of outer ring
F	215 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. 6.1 mm	Permissible axial displacement

## Abutment dimensions

$d_a$	min. 200 mm	Diameter of spacer sleeve
$d_a$	max. 212 mm	Diameter of spacer sleeve
$d_b$	min. 219 mm	Diameter of shaft abutment
$D_a$	max. 280 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	400 kN
Basic static load rating	$C_0$	500 kN
Fatigue load limit	$P_u$	53 kN

Reference speed		2 600 r/min
Limiting speed		3 800 r/min
Minimum load factor	$k_r$	0.15
Limiting value	$e$	0.2
Calculation factor	$\gamma$	0.6

## Mass

Mass		10.9 kg
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## Associated products

Angle ring		HJ 1038
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