

# NCF 2920 CV



## Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

## Overview

### Dimensions

Bore diameter	100 mm
Outside diameter	140 mm
Width	24 mm

## Performance

Basic dynamic load rating	128 kN
Basic static load rating	200 kN
Reference speed	2 000 r/min
Limiting speed	2 600 r/min

## Properties

Bearing part	Complete bearing
Axial displacement capability	In one direction
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Without
Design	Non-separable
Number of flanges, outer ring	1
Number of flanges, inner ring	2
Loose flange	None
Radial internal clearance	CN
Coating	Without
Sealing	Without

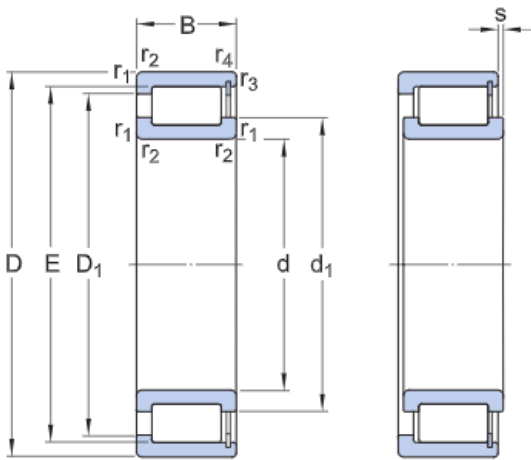
Lubricant

None

Relubrication feature

Without

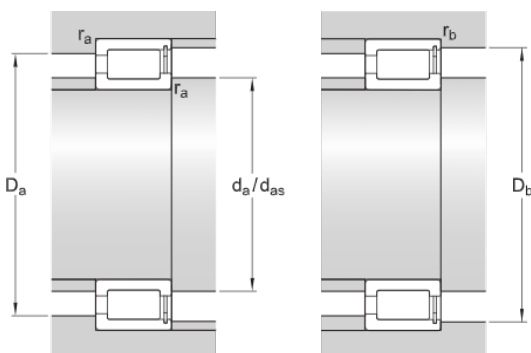
## Technical Specification



### Dimensions

d	100 mm	Bore diameter
D	140 mm	Outside diameter
B	24 mm	Width
$d_1$	≈ 114 mm	Shoulder diameter inner ring
$D_1$	≈ 126 mm	Shoulder diameter outer ring
E	130.6 mm	Raceway diameter outer ring
s	max. 1.3 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1 mm	Chamfer dimension

### Abutment dimensions



$d_a$	min. 106 mm	Abutment diameter shaft
$d_{a\epsilon}$	111 mm	Abutment diameter shaft
$D_a$	max. 134 mm	Abutment diameter housing
$D_b$	max. 134 mm	Abutment diameter housing
$r_a$	max. 1 mm	Fillet radius
$r_b$	max. 1 mm	Fillet radius

## Calculation data

Basic dynamic load rating	C	128 kN
Basic static load rating	$C_0$	200 kN
Fatigue load limit	$P_u$	24.5 kN
Reference speed		2 000 r/min
Limiting speed		2 600 r/min
Calculation factor	$k_r$	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

## Mass

Mass bearing		1.09 kg
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