



# SKF NNF 5010 ADB-2LSV Double row full complement cylindrical roller bearing, NNF design, with integral sealing and relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the two-piece inner ring and one central flange on the outer ring, NNF design bearings can locate the shaft axially in both directions. Two snap ring grooves in the outer ring simplify mounting and save space axially.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in both directions
- Sealed for increased reliability, with relubrication feature

## Overview

### Dimensions

Bore diameter	50 mm
Outside diameter	80 mm
Width	40 mm

## Performance

Basic dynamic load rating	108 kN
Basic static load rating	160 kN
Limiting speed	1 700 r/min

### Properties

Bearing part	Complete bearing
Axial displacement capability	None
Number of rows	2
Locating feature, bearing outer ring	Snap ring groove
Bore type	Cylindrical
Cage	Without
Number of flanges, outer ring	1
Number of flanges, inner ring	2
Loose flange	None

Radial internal clearance	CN
Tolerance class	Normal
Coating	Without
Sealing	Seal on both sides
Sealing type	Contact
Lubricant	Grease
Relubrication feature	With

## Technical Specification

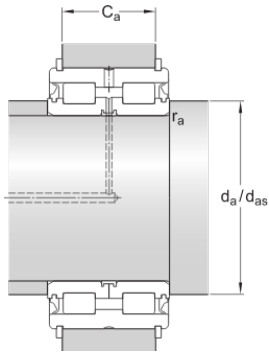


### Dimensions

d	50 mm	Bore diameter
D	80 mm	Outside diameter
B	40 mm	Width
C	39 mm	Outer ring width (sealed bearing)
$d_1$	$\approx 61.8$ mm	Shoulder diameter inner ring
$D_3$	77.8 mm	Snap ring groove diameter at outer ring
$C_1$	34.2 mm	Distance between two snap ring grooves of the outer ring outside surface
	+ 0.2 mm	Tolerance for distance $C_1$
$C_2$	2.4 mm	Distance outer ring side face - snap ring groove (sealed bearing)
b	2.7 mm	Width snap ring groove outer ring
$b_1$	8.5 mm	Width annular lubrication groove outer ring
K	4.5 mm	Diameter lubrication hole (outer ring)
r	min. 0.8 mm	Chamfer dimension (sealed bearing)
$r_{3,4}$	min. 0.6 mm	Chamfer dimension

### Abutment dimensions

$d_a$	min. 54 mm	Abutment diameter shaft
$d_{as}$	59.5 mm	Abutment diameter shaft



$C_{a1}$	30 mm	Abutment width applying for SW snap rings (sealed brg.)
	- 0.2 mm	Tolerance for abutment $C_a$
$C_{a2}$	29 mm	Abutment width applying for DIN 471 snap rings (sealed brg.)
	- 0.2 mm	Tolerance for abutment $C_a$
$r_a$	max. 0.4 mm	Fillet radius

## Calculation data

Basic dynamic load rating	C	108 kN
Basic static load rating	$C_0$	160 kN
Fatigue load limit	$P_u$	18.6 kN
Limiting speed		1 700 r/min
Minimum load factor	$k_r$	0.4

## Mass

Mass bearing	0.76 kg
--------------	---------

## Associated products

Snap ring Seeger	SW 80
Snap ring in accordance with DIN 471	80x2.5

# Terms and conditions

By accessing and using this website / app owned and published by AB SKF (publ.) (556007-3495 · Gothenburg) ("SKF"), you agree to the following terms and conditions:

## Warranty Disclaimer and Limitation of Liability

Although every care has been taken to assure the accuracy of the information on this website / app, SKF provides this information "AS IS" and DISCLAIMS ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. You acknowledge that your use of this website / app is at your sole risk, that you assume full responsibility for all costs associated with use of this website / app, and that SKF shall not be liable for any direct, incidental, consequential, or indirect damages of any kind arising out of your access to, or use of the information or software made available on this website / app. Any warranties and representations in this website / app for SKF products or services that you purchase or use will be subject to the agreed upon terms and conditions in the contract for such product or service. Further, for non-SKF websites / apps that are referenced in our website / app or where a hyperlink appears, SKF makes no warranties concerning the accuracy or reliability of the information in these websites / apps and assumes no responsibility for material created or published by third parties contained therein. In addition, SKF does not warrant that this website / app or these other linked websites / apps are free from viruses or other harmful elements.

## Third Party Services

When viewing YouTube content via the SKF website(s) (i.e. using YouTube API Services), you agree to be bound by the YouTube Terms of Service.

## Copyright

Copyright in this website / app copyright of the information and software made available on this website / app rest with SKF or its licensors. All rights are reserved. All licensed material will reference the licensor that has granted SKF the right to use the material. The information and software made available on this website / app may not be reproduced, duplicated, copied, transferred, distributed, stored, modified, downloaded or otherwise exploited for any commercial use without the prior written approval of SKF. However, it may be reproduced, stored and downloaded for use by individuals without prior written approval of SKF. Under no circumstances may this information or software be supplied to third parties.

This website /app includes certain images used under license from Shutterstock, Inc.

## Trademarks and Patents

All trademarks, brand names, and corporate logos displayed on the website / app are the property of SKF or its licensors, and may not be used in any way without prior written approval by SKF. All licensed trademarks published on this website / app reference the licensor that has granted SKF the right to use the trademark. Access to this website / app does not grant to the user any license under any patents owned by or licensed to SKF.

## Changes

SKF reserves the right to make changes or additions to this website / app at any time.