



Image may differ from product. See technical specification for details.

## NNF 5020 ADA-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	100 mm
Outside diameter	150 mm
Width	67 mm

Performance

Basic dynamic load rating	336 kN
Basic static load rating	570 kN
Limiting speed	850 r/min

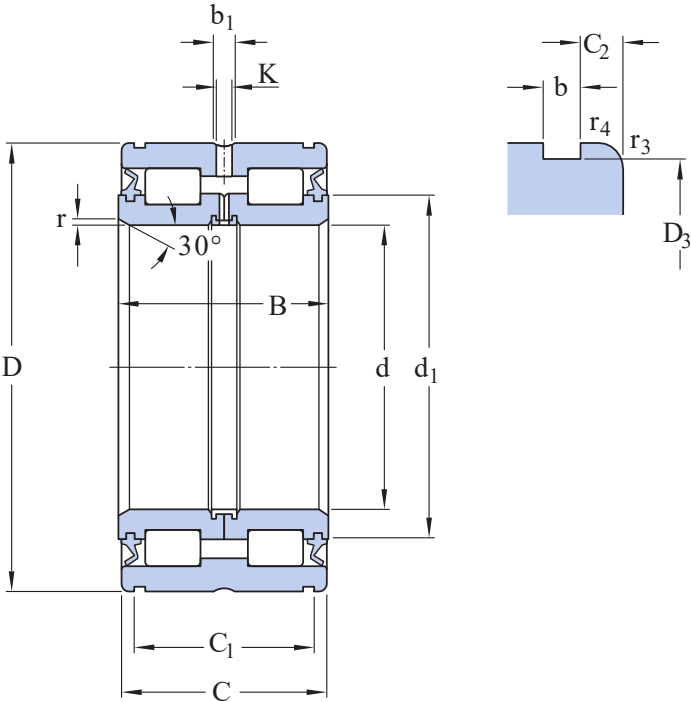
Properties

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
Candidate for remanufacturing	Yes
Indicative product carbon footprint to remanufacture	5.05 kg CO <sub>2</sub> e
Indicative product carbon footprint to manufacture	14.4 kg CO <sub>2</sub> e

Logistics

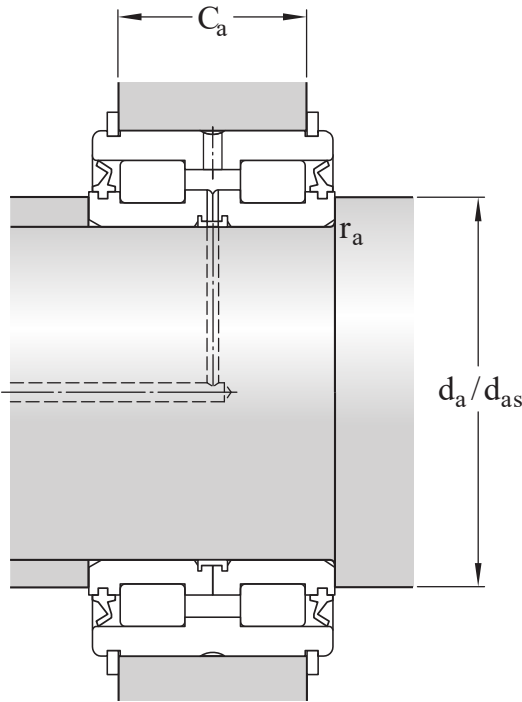
Product net weight	4.01 kg
eClass code	23-05-09-01
UNSPSC code	31171505

# Technical specification



## Dimensions

d	100 mm	Bore diameter
D	150 mm	Outside diameter
B	67 mm	Width
C	66 mm	Outer ring width (sealed bearing)
d <sub>1</sub>	≈ 118.5 mm	Shoulder diameter inner ring
D <sub>3</sub>	147 mm	Snap ring groove diameter at outer ring
E	138 mm	Raceway diameter outer ring
C <sub>1</sub>	59.2 mm	Distance between two snap ring grooves of the outer ring outside surface
	+ 0.2 mm	Tolerance for distance C <sub>1</sub>
C <sub>2</sub>	3.4 mm	Distance outer ring side face - snap ring groove (sealed bearing)
b	4.2 mm	Width snap ring groove outer ring
b <sub>1</sub>	7 mm	Width annular lubrication groove outer ring
K	3.5 mm	Diameter lubrication hole (outer ring)
r	min. 1.5 mm	Chamfer dimension (sealed bearing)
r <sub>3,4</sub>	min. 0.6 mm	Chamfer dimension



Abutment dimensions

$d_a$	min. 106 mm	Abutment diameter shaft
$d_{as}$	115 mm	Abutment diameter shaft
$C_{a1}$	54 mm	Abutment width applying for SW snap rings (sealed brg.)
	– 0.2 mm	Tolerance for abutment $C_a$ (SW snap rings)
$C_{a2}$	51 mm	Abutment width applying for DIN 471 snap rings (sealed brg.)
	– 0.2 mm	Tolerance for abutment $C_a$ (DIN 471 snap rings)
$r_a$	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	336 kN
Basic static load rating	$C_0$	570 kN
Fatigue load limit	$P_u$	68 kN
Limiting speed		850 r/min
Minimum load factor	$k_r$	0.4

Associated products

Snap ring Seeger	SW 150
Snap ring in accordance with DIN 471	150x4

Tolerances and clearances




GENERAL BEARING SPECIFICATIONS

- [Tolerances: Normal](#)
- [Radial internal clearance: table](#)
- [Axial internal clearance](#)

## BEARING INTERFACES

- [Seat tolerances for standard conditions](#)
- [Tolerances and resultant fit](#)

More Information

<div> <b>Product details</b></div> <div><div><a href="#">Designs and variants</a></div><div><a href="#">General bearing specifications</a></div><div><a href="#">Loads</a></div><div><a href="#">Temperature limits</a></div><div><a href="#">Permissible speed</a></div><div><a href="#">Design considerations</a></div><div><a href="#">Designation system</a></div></div>	<div> <b>Engineering information</b></div> <div><div><a href="#">Principles of rolling bearing selection</a></div><div><a href="#">General bearing knowledge</a></div><div><a href="#">Bearing selection process</a></div><div><a href="#">Bearing failure and how to prevent it</a></div></div>	<div> <b>Tools</b></div> <div><div><a href="#">SimPro Quick</a></div><div><a href="#">SKF Product select</a></div><div><a href="#">LubeSelect for SKF greases</a></div><div><a href="#">Heater selection tool</a></div><div><a href="#">Oil Injection Method Program</a></div></div>
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