

NNCF 5010 CV

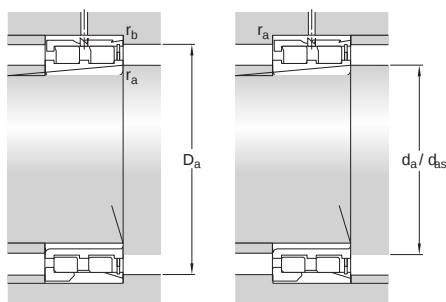
Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the inner ring and one flange on the outer ring, NNCF design bearings can accommodate limited axial displacement in one direction. A retaining ring in 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
- Relubrication feature



Dimensions		
d	50 mm	Bore diameter
D	80 mm	Outside diameter
B	40 mm	Width
d ₁	≈ 59 mm	Shoulder diameter inner ring
D ₁	≈ 67.5 mm	Shoulder diameter outer ring
b ₁	4.5 mm	Width annular lubrication groove outer ring
K	3 mm	Diameter lubrication hole (outer ring)
s	max. 1.5 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
r _{1,2}	min. 1 mm	Chamfer dimension (open bearings)
r _{3,4}	min. 0.3 mm	Chamfer dimension
Parameter r _{3,4} has either the value specified here or the same value as r _{1,2} .		



Abutment dimensions

d_a	min. 55.5 mm	Abutment diameter shaft
d_{as}	56.7 mm	Abutment diameter shaft
D_a	max. 74.8 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius
r_b	max. 0.3 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	142 kN
Basic static load rating	C_0	196 kN
Fatigue load limit	P_u	23.6 kN
Reference speed		4 000 r/min
Limiting speed		5 000 r/min
Minimum load factor	k_r	0.5

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