

NCF 18/1000 V

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



Dimensions		
d	1 000 mm	Bore diameter
D	1 220 mm	Outside diameter
B	100 mm	Width
d ₁	≈ 1 073 mm	Shoulder diameter inner ring
D ₁	≈ 1 148 mm	Shoulder diameter outer ring
E	1 165 mm	Raceway diameter outer ring
s	max. 12 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
r _{1,2}	min. 6 mm	Chamfer dimension



Abutment dimensions		
d _a	min. 1 023 mm	Abutment diameter shaft
d _{as}	1 063 mm	Abutment diameter shaft
D _a	max. 1 197 mm	Abutment diameter housing

D_b	max. 1 197 mm	Abutment diameter housing
r_a	max. 5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	2 920 kN
Basic static load rating	C_0	7 500 kN
Fatigue load limit	P_u	455 kN
Reference speed		160 r/min
Limiting speed		200 r/min
Calculation factor	k_r	0.1
Limiting value	e	0.2
Calculation factor	Y	0.6

Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

- Tolerances: Normal
- Radial internal clearance: table

BEARING INTERFACES

- Seat tolerances for standard conditions
- Tolerances and resultant fit