

NCF 18/530 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	530 mm	Bore diameter
D	650 mm	Outside diameter
B	56 mm	Width
d ₁	≈ 573 mm	Shoulder diameter inner ring
D ₁	≈ 612 mm	Shoulder diameter outer ring
E	624.5 mm	Raceway diameter outer ring
s	max. 5 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
r _{1,2}	min. 3 mm	Chamfer dimension



Abutment dimensions		
d _a	min. 543 mm	Abutment diameter shaft
d _{as}	567 mm	Abutment diameter shaft
D _a	max. 637 mm	Abutment diameter housing

D_b	max. 637 mm	Abutment diameter housing
r_a	max. 2.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	990 kN
Basic static load rating	C_0	2 240 kN
Fatigue load limit	P_u	180 kN
Reference speed		360 r/min
Limiting speed		450 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