

# NUP 309 ECNP

- SKF Explorer

## Cylindrical roller bearings, single row

### Bearing data

[Tolerances,](#)

Normal (metric), P6, Normal (inch),

[Radial internal clearance,](#)

cylindrical bore, tapered bore,

[Axial internal clearance,](#)

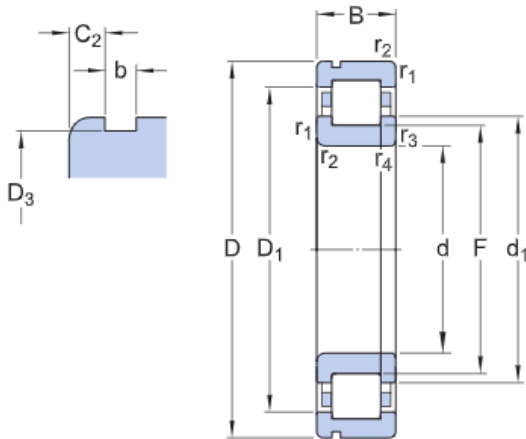
NUP, NJ + HJ

### Bearing interfaces

[Seat tolerances for standard conditions,](#)

[Tolerances and resultant fit](#)

## Technical specification



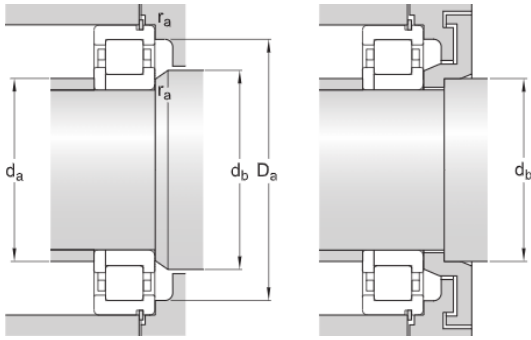
## DIMENSIONS

d	45 mm	Bore diameter
D	100 mm	Outside diameter
B	25 mm	Width
d1	≈64.4 mm	Shoulder diameter of inner ring
D1	≈83.2 mm	Shoulder diameter of outer ring
D <sub>3</sub>	96.8 mm	Diameter of snap ring groove
F	58.5 mm	Chamfer dimension of loose flange ring
C <sub>2</sub>	3.28 mm	Distance from outer ring side face to snap ring groove
b	2.7 mm	Width of snap ring groove
r <sub>1,2</sub>	min.1.5 mm	Chamfer dimension
r <sub>3,4</sub>	min.1.5 mm	Chamfer dimension of loose flange ring

## ABUTMENT DIMENSIONS

min.54

Diameter of



$d_a$	mm	spacer sleeve
$d_b$	min.67 mm	Diameter of shaft abutment
$D_a$	max.91.4 mm	Diameter of housing abutment
$r_a$	max.1.5 mm	Radius of fillet

## CALCULATION DATA

Basic dynamic load rating	C	112 kN
Basic static load rating	$C_0$	100 kN
Fatigue load limit	$P_u$	12.9 kN
Reference speed		7 500 r/min
Limiting speed		8 500 r/min
Minimum load factor	$k_r$	0.15
Limiting value	e	0.2
Axial load factor	Y	0.6

## MASS

Mass	0.9 kg
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