



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

NUP 304 ECP

Single row cylindrical roller bearing, NUP design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one integral flange and one loose flange ring on the inner ring, NUP design bearings can locate the shaft axially in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in both directions
- Separable design

Overview

Dimensions

Bore diameter	0.787 in
Outside diameter	2.047 in
Width	0.591 in

Performance

Basic dynamic load rating	7 981 lbf
Basic static load rating	5 845 lbf
Reference speed	15 000 r/min
Limiting speed	18 000 r/min
SKF performance class	SKF Explorer

Properties

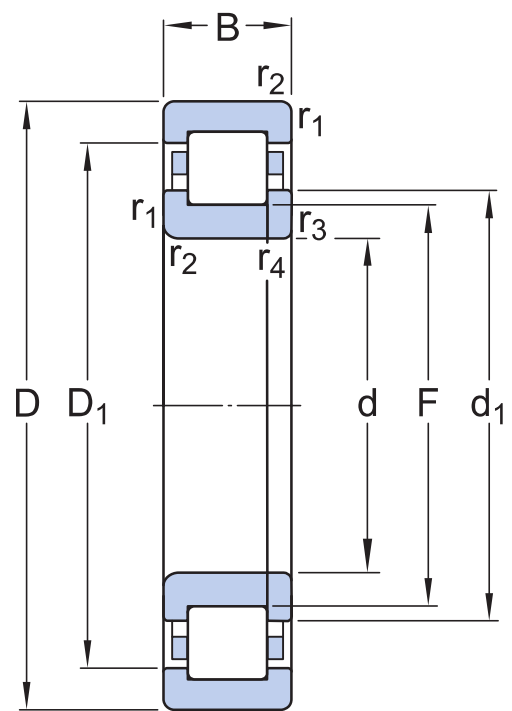
Bearing part	Complete bearing
Axial displacement capability	None
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Non-metallic
Number of flanges, outer ring	2
Number of flanges, inner ring	1
Loose flange	Inner ring loose flange
Radial internal clearance	CN
Tolerance class	Normal
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

Logistics

Product net weight	0.3439 lb
eClass code	23-05-09-01

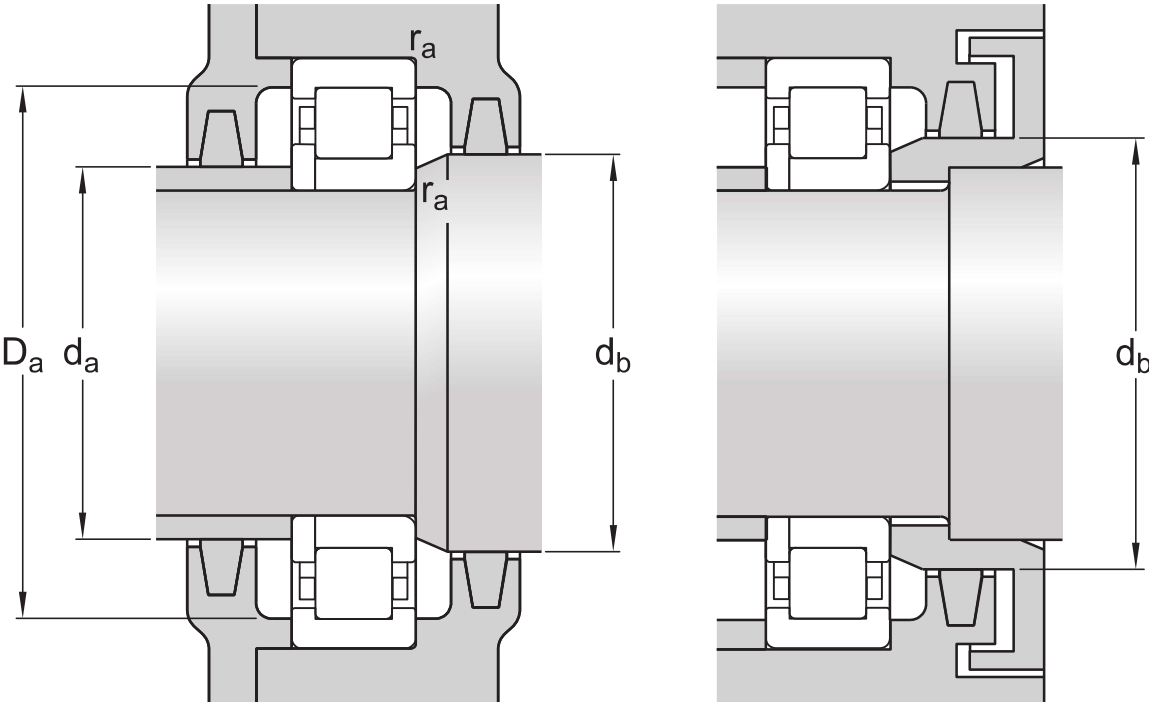
UNSPSC code	31171505
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Technical specification



Dimensions

d	0.787 in	Bore diameter
D	2.047 in	Outside diameter
B	0.591 in	Width
d ₁	≈ 1.228 in	Shoulder diameter of inner ring
D ₁	≈ 1.648 in	Shoulder diameter of outer ring
F	1.083 in	Raceway diameter of inner ring
r _{1,2}	min. 0.043 in	Chamfer dimension
r _{3,4}	min. 0.024 in	Chamfer dimension of loose flange ring



Abutment dimensions

d_a	min. 1.028 in	Diameter of spacer sleeve
d_b	min. 1.299 in	Diameter of shaft abutment
D_a	max. 1.787 in	Diameter of housing abutment
r_a	max. 0.039 in	Radius of fillet

Calculation data

SKF performance class		SKF Explorer
Basic dynamic load rating	C	7 981 lbf
Basic static load rating	C_0	5 845 lbf
Fatigue load limit	P_u	731 lbf
Reference speed		15 000 r/min
Limiting speed		18 000 r/min

Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

- [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](#)

More Information

 Product details Designs and variants General bearing specifications Loads Temperature limits Permissible speed Design considerations Designation system	 Engineering information Principles of rolling bearing selection General bearing knowledge Bearing selection process Bearing failure and how to prevent it	 Tools SimPro Quick SKF Product select Bearing Frequency Calculator LubeSelect for SKF greases Heater selection tool Oil Injection Method Program
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