



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

NKIS 65

Single row needle roller bearing with machined rings, with flanges

Single row needle roller bearings incorporate cylindrical rollers that are small in diameter relative to their length. Owing to their large number of rollers, the bearings have a high load carrying capacity. The outer ring includes two integral flanges to guide the bearing axially and an annular groove with one or more lubrication holes to facilitate relubrication.

- High radial load carrying capacity
- High stiffness
- Low cross-sectional height
- Accommodate axial displacement in both directions
- Separable design

Overview

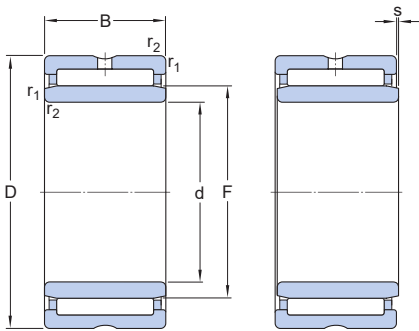
Dimensions

Bore diameter	65 mm
Outside diameter	95 mm
Width	28 mm

Properties

Bearing part	Complete bearing
Number of rows	1
Outer ring type	Machined (solid)
Aligning feature	Without
Cage	Sheet metal
Number of flanges, outer ring	2
Radial internal clearance	CN
Tolerance class	Normal
Material, bearing	Bearing steel
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	With
Indicative carbon footprint for new product	2.4 kg CO ₂ e

Technical specification



Performance

Basic dynamic load rating	81.5 kN
Basic static load rating	132 kN
Reference speed	5 300 r/min
Limiting speed	6 000 r/min
SKF performance class	SKF Explorer

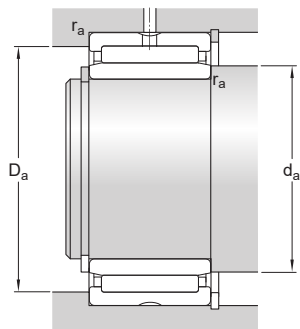
Logistics

Product net weight	0.641 kg
eClass code	23-05-09-03
UNSPSC code	31171512

Dimensions

d	65 mm	Bore diameter
D	95 mm	Outside diameter
B	28 mm	Width
F	75 mm	Raceway diameter inner ring
r _{1,2}	min. 1.1 mm	Chamfer dimension outer ring
s	max. 2 mm	Permissible axial displacement from the normal position of one bearing ring

relative to the
other



Abutment dimensions

d_a	min. 71.5 mm	Smallest permissible abutment diameter shaft, bearings with flanges
D_a	max. 88.5 mm	Diameter of housing abutment
r_a	max. 1 mm	Fillet radius

Calculation data

SKF performance class		SKF Explorer
Basic dynamic load rating	C	81.5 kN
Basic static load rating	C_0	132 kN
Fatigue load limit	P_u	16.6 kN
Reference speed		5 300 r/min
Limiting speed		6 000 r/min

Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

- [Tolerances: Normal, P6, P5, ISO - F6 \(\$F_w\$ \)](#)
- [Radial internal clearance: table](#)

DESIGN CONSIDERATIONS

- Housing tolerances: table
- Shaft tolerances: Operating clearance

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