



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

NK 55/25

Single row needle roller bearing with machined rings, with flanges, without inner ring

Single row needle roller bearings without an inner ring consist of an outer ring with a needle roller and cage assembly. They are an excellent choice for compact bearing arrangements in applications where hardened and ground raceways can be provided on the shaft. 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

Overview

Dimensions

Bore diameter of needle roller complement	55 mm
Outside diameter	68 mm
Width	25 mm

Performance

Basic dynamic load rating	45 kN
Basic static load rating	85 kN
Reference speed	7 500 r/min
Limiting speed	8 500 r/min
SKF performance class	SKF Explorer

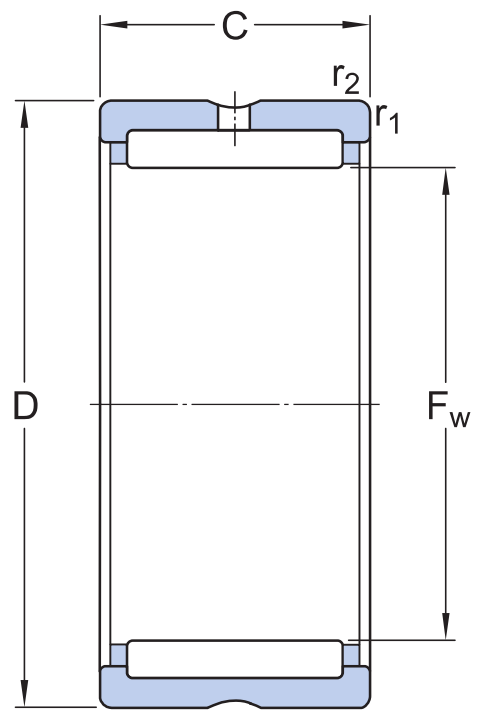
Properties

Bearing part	Bearing without inner ring
Number of rows	1
Outer ring type	Machined (solid)
Aligning feature	Without
Cage	Sheet steel
Number of flanges, outer ring	2
Tolerance class	Normal
Material, bearing	Bearing steel
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	With

Logistics

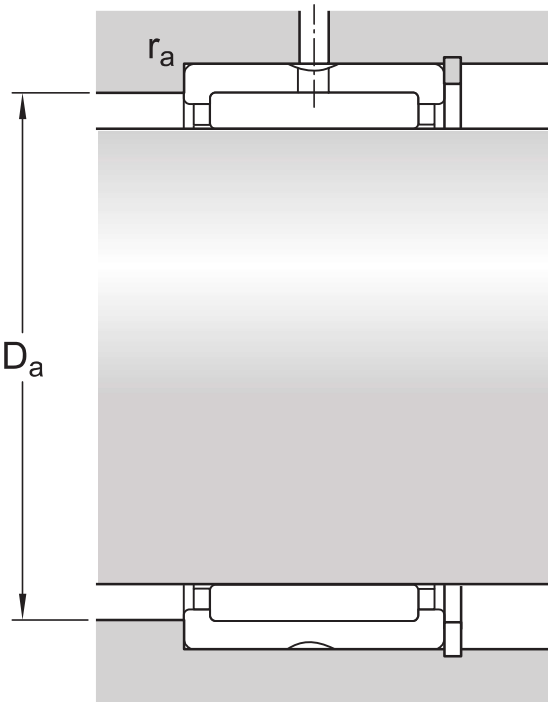
Product net weight	0.191 kg
eClass code	23-05-09-03
UNSPSC code	31171512

Technical specification



Dimensions

F _w	55 mm	Diameter under rollers
D	68 mm	Outside diameter
C	25 mm	Width
r _{1,2}	min. 0.6 mm	Chamfer dimension outer ring

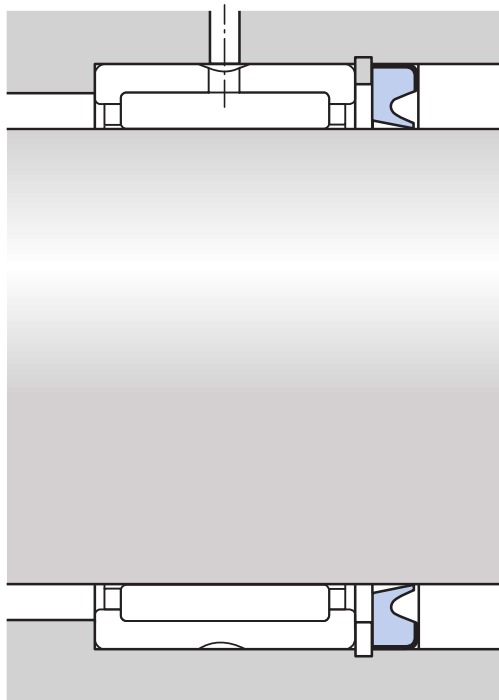


Abutment dimensions

D_a	max. 64 mm	Diameter of housing abutment
r_a	max. 0.6 mm	Fillet radius

Calculation data

SKF performance class		SKF Explorer
Basic dynamic load rating	C	45 kN
Basic static load rating	C_0	85 kN
Fatigue load limit	P_u	10.6 kN
Reference speed		7 500 r/min
Limiting speed		8 500 r/min



Associated seals

55x68x8 HMS5 RG

Radial shaft seal

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](#)

Compatible products

Recommended product

Radial shaft seal with rubber outside diameter and single sealing lip,
for oil or grease

[55X68X8 HMS5 RG](#)

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 Bearing Select Engineering Calculator LubeSelect for SKF greases Heater Selection Tool skf.com/mount
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