



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

# RNA 69/28

#### 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	32 mm
Outside diameter	45 mm
Width	30 mm

#### Performance

Basic dynamic load rating	45.5 kN
Basic static load rating	65.5 kN
Reference speed	12 000 r/min
Limiting speed	14 000 r/min
SKF performance class	SKF Explorer

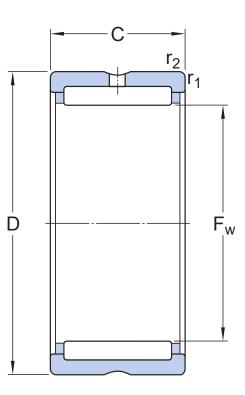
## Properties

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
Indicative product carbon footprint to manufacture	0.486 kg CO <sub>2</sub> e

## Logistics

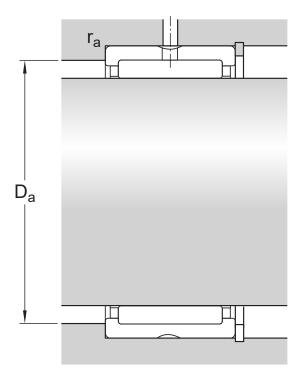
Product net weight	0.135 kg
eClass code	23-05-09-03
UNSPSC code	31171512

## **Technical specification**



## Dimensions

F <sub>w</sub>	32 mm	Diameter under rollers
D	45 mm	Outside diameter
С	30 mm	Width
٢ <sub>1,2</sub>	min. 0.3 mm	Chamfer dimension outer ring

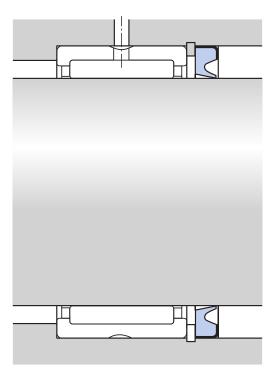


## Abutment dimensions

D <sub>a</sub>	max. 43 mm	Diameter of housing abutment
r <sub>a</sub>	max. 0.3 mm	Fillet radius

## Calculation data

SKF performance class		SKF Explorer
Basic dynamic load rating	С	45.5 kN
Basic static load rating	C <sub>0</sub>	65.5 kN
Fatigue load limit	Pu	8.5 kN
Reference speed		12 000 r/min
Limiting speed		14 000 r/min



## Associated seals

G 32x45x4

Radial shaft seal with a low cross-sectional height, single lip

**Tolerances and clearances** 

#### **GENERAL BEARING SPECIFICATIONS**

- Tolerances: Normal, P6, P5, ISO F6 (F<sub>w</sub>)
- Radial internal clearance: table

#### **DESIGN CONSIDERATIONS**

- Housing tolerances: table
- Shaft tolerances: Operating clearance

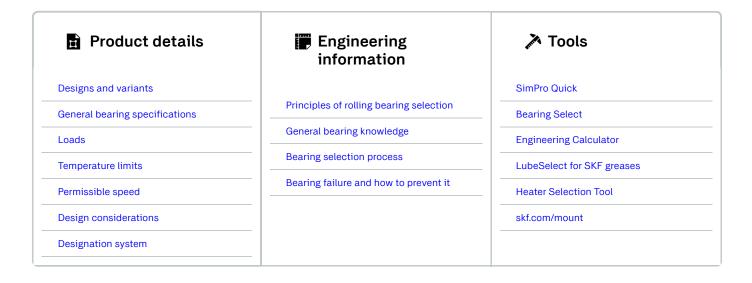
## **Compatible products**

## **Recommended product**

Radial shaft seal with low cross-sectional height for needle roller bearings, G design

G 32X45X4

## **More Information**





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