

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

# AXK 130170

## Needle roller and cage thrust assembly

Needle roller and cage thrust assemblies are designed to accommodate heavy axial loads and peak loads in one direction. They provide a high degree of stiffness within a minimum axial space. In applications where the faces of adjacent machine components serve as raceways, needle roller thrust bearings take up no more space than a conventional thrust

washer. The bearings can also be combined with bearing washers to create complete bearings.

- High axial load carrying capacity
- High stiffness
- Long service life
- Require minimal axial space
- Can be combined with bearing washers

# Overview

## Dimensions

| | |
|---|---|
| Bore diameter | 130 mm |
| Outside diameter | 170 mm |
| Height | 5 mm |

## Performance

| | |
|---|---|
| Basic dynamic load rating | 112 kN |
| Basic static load rating | 830 kN |
| Reference speed | 1 100 r/min |
| Limiting speed | 2 200 r/min |

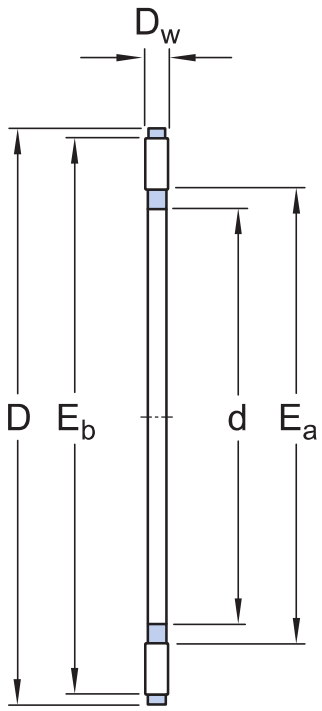
## Properties

| | |
|---|---|
| Bearing part | Needle roller and cage assembly |
| Cage | Sheet steel |
| Roller grade | G2 |
| Material, bearing | Bearing steel |
| Coating | Without |

## Logistics

| | |
|---|---|
| Product net weight | 0.19 kg |
| eClass code | 23-05-09-03 |
| UNSPSC code | 31171512 |

# Technical specification




## Dimensions

| | | |
|---|---|---|
| d | 130 mm | Bore diameter |
| D | 170 mm | Outside diameter |
| $D_w$ | 5 mm | Diameter roller |
| $E_a$ | min. 136 mm | Raceway diameter (min.) roller and cage thrust assembly |
| $E_b$ | max. 167 mm | Raceway diameter (max.) roller and cage thrust assembly |

## Calculation data

| | | |
|---|---|---|
| Basic dynamic load rating | C | 112 kN |
| Basic static load rating | $C_0$ | 830 kN |
| Fatigue load limit | $P_u$ | 93 kN |
| Reference speed | | 1 100 r/min |
| Limiting speed | | 2 200 r/min |

## Associated products

| | |
|---|---|
| Universal washer | LS 130170 |
| Thin universal washer | AS 130170 |
| Shaft washer | WS 81126 |
| Housing washer | GS 81126 |

## Tolerances and clearances

### GENERAL BEARING SPECIFICATIONS

- Tolerances: table, values

### DESIGN CONSIDERATIONS

- table

## BEARING INTERFACES

- Seat tolerances for standard conditions

# Compatible products

## Recommended product

| | |
|---|---|
| AS thin universal washer for needle roller thrust bearings | AS 130170 |
| WS shaft washer for cylindrical and needle roller thrust bearings | WS 81126 |
| GS housing washer for cylindrical and needle roller thrust bearings | GS 81126 |

## 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

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