

# AXK 100135

## 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 | 100 mm |
| Height | 4 mm |
| Outside diameter | 135 mm |

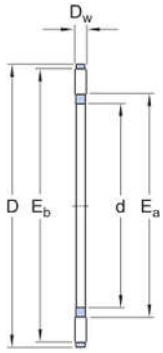
### Performance

| | |
|---|---|
| Basic dynamic load rating | 76.5 kN |
| Basic static load rating | 560 kN |
| Limiting speed | 2 800 r/min |
| Reference speed | 1 400 r/min |

### Properties

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

# Technical Specification




## Dimensions

| | | |
|---|---|---|
| d | 100 mm | Bore diameter |
| D | 135 mm | Outside diameter |
| $D_w$ | 4 mm | Diameter roller |
| $E_a$ | min. 105 mm | Raceway diameter (min.) roller and cage thrust assembly |
| $E_b$ | max. 133 mm | Raceway diameter (max.) roller and cage thrust assembly |

## Calculation data

| | | |
|---|---|---|
| Basic dynamic load rating | C | 76.5 kN |
| Basic static load rating | $C_0$ | 560 kN |
| Fatigue load limit | $P_u$ | 65.5 kN |
| Reference speed | | 1 400 r/min |
| Limiting speed | | 2 800 r/min |

## Mass

| | |
|---|---|
| Mass roller and cage thrust assembly | 0.1 kg |

## Associated products

| | |
|---|---|
| Universal washer | LS 100135 |
| Thin universal washer | AS 100135 |
| Shaft washer | WS 81120 |
| Housing washer | GS 81120 |

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