

AXK 3552



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 | 35 mm |
| Outside diameter | 52 mm |
| Thickness | 2 mm |

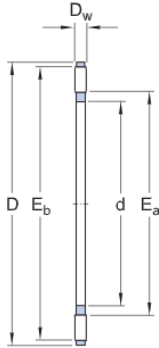
Performance

| | |
|---------------------------|-------------|
| Basic dynamic load rating | 16.6 kN |
| Basic static load rating | 83 kN |
| Limiting speed | 6 300 r/min |
| Reference speed | 3 200 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 | 35 mm | Bore diameter |
| D | 52 mm | Outside diameter |
| D _w | 2 mm | Diameter roller |
| E _a | min. 39 mm | Raceway diameter (min.) roller and cage thrust assembly |
| E _b | max. 51 mm | Raceway diameter (max.) roller and cage thrust assembly |

Calculation data

| | | |
|---------------------------|----------------|-------------|
| Basic dynamic load rating | C | 16.6 kN |
| Basic static load rating | C ₀ | 83 kN |
| Fatigue load limit | P _u | 9.8 kN |
| Reference speed | | 3 200 r/min |
| Limiting speed | | 6 300 r/min |

Mass

| | |
|--------------------------------------|---------|
| Mass roller and cage thrust assembly | 0.01 kg |
|--------------------------------------|---------|

Associated products

| | |
|-----------------------|----------|
| Universal washer | LS 3552 |
| Thin universal washer | AS 3552 |
| Shaft washer | WS 81107 |
| Housing washer | GS 81107 |

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