



AXK 2542 Needle roller and cage thrust assembly

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 | 25 mm |
| Outside diameter | 42 mm |
| Height | 2 mm |

Performance

| | |
|---------------------------|-------------|
| Basic dynamic load rating | 13.4 kN |
| Basic static load rating | 60 kN |
| Reference speed | 3 800 r/min |
| Limiting speed | 7 500 r/min |

Properties

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

Technical Specification



Dimensions

| | | |
|-------|------------|---|
| d | 25 mm | Bore diameter |
| D | 42 mm | Outside diameter |
| D_w | 2 mm | Diameter roller |
| E_a | min. 29 mm | Raceway diameter (min.) roller and cage thrust assembly |
| E_b | max. 41 mm | Raceway diameter (max.) roller and cage thrust assembly |

Calculation data

| | | |
|---------------------------|-------|-------------|
| Basic dynamic load rating | C | 13.4 kN |
| Basic static load rating | C_0 | 60 kN |
| Fatigue load limit | P_u | 6.95 kN |
| Reference speed | | 3 800 r/min |
| Limiting speed | | 7 500 r/min |

Mass

| | |
|--------------------------------------|----------|
| Mass roller and cage thrust assembly | 0.007 kg |
|--------------------------------------|----------|

Associated products

| | |
|-----------------------|----------|
| Universal washer | LS 2542 |
| Thin universal washer | AS 2542 |
| Shaft washer | WS 81105 |
| Housing washer | GS 81105 |

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