

AXK 2542



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

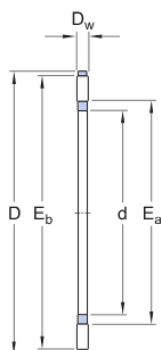
Basic dynamic load rating	13.4 kN
Basic static load rating	60 kN
Reference speed	3 800 r/min
Limiting speed	7 500 r/min

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
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Associated products

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

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