

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

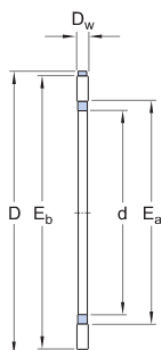
Performance

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
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Associated products

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

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