



AXK 0821 TN 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	8 mm
Outside diameter	21 mm
Height	2 mm

Performance

Basic dynamic load rating	7.2 kN
Basic static load rating	20 kN
Reference speed	5 600 r/min
Limiting speed	11 000 r/min

Properties

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

Technical Specification



Dimensions

d	8 mm	Bore diameter
D	21 mm	Outside diameter
D _w	2 mm	Diameter roller
E _a	min. 9 mm	Raceway diameter (min.) roller and cage thrust assembly
E _b	max. 20 mm	Raceway diameter (max.) roller and cage thrust assembly

Calculation data

Basic dynamic load rating	C	7.2 kN
Basic static load rating	C ₀	20 kN
Fatigue load limit	P _u	2.32 kN
Reference speed		5 600 r/min
Limiting speed		11 000 r/min

Mass

Mass roller and cage thrust assembly	0.002 kg
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Associated products

Universal washer	LS 0821
Thin universal washer	AS 0821

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