

AXK 6085

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	60 mm
Height	3 mm
Outside diameter	85 mm

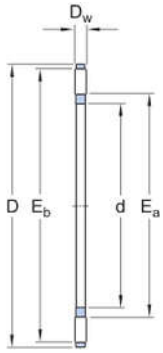
Performance

Basic dynamic load rating	37.5 kN
Basic static load rating	232 kN
Limiting speed	4 300 r/min
Reference speed	2 200 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	60 mm	Bore diameter
D	85 mm	Outside diameter
D_w	3 mm	Diameter roller
E_a	min. 65 mm	Raceway diameter (min.) roller and cage thrust assembly
E_b	max. 83 mm	Raceway diameter (max.) roller and cage thrust assembly

Calculation data

Basic dynamic load rating	C	37.5 kN
Basic static load rating	C_0	232 kN
Fatigue load limit	P_u	28.5 kN
Reference speed		2 200 r/min
Limiting speed		4 300 r/min

Mass

Mass roller and cage thrust assembly	0.033 kg

Associated products

Universal washer	LS 6085
Thin universal washer	AS 6085
Shaft washer	WS 81112
Housing washer	GS 81112

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