

AXK 150190Needle 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	150 mm
Outside diameter	190 mm
Height	5 mm

Performance

Basic dynamic load rating	120 kN
Basic static load rating	950 kN
Reference speed	1 000 r/min
Limiting speed	2 000 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	150 mm	Bore diameter
D	190 mm	Outside diameter
D_w	5 mm	Diameter roller
E_a	min. 156 mm	Raceway diameter (min.) roller and cage thrust assembly
E_b	max. 187 mm	Raceway diameter (max.) roller and cage thrust assembly

Calculation data

Basic dynamic load rating	C	120 kN
Basic static load rating	C_0	950 kN
Fatigue load limit	P_u	102 kN
Reference speed		1 000 r/min
Limiting speed		2 000 r/min

Mass

Mass roller and cage thrust assembly	0.23 kg

Associated products

Universal washer	LS 150190
Thin universal washer	AS 150190
Shaft washer	WS 81130
Housing washer	GS 81130

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