

AXK 90120

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	3.543 in
Outside diameter	4.724 in
Height	0.157 in

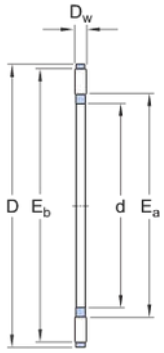
Performance

Basic dynamic load rating	14 725 lbf
Basic static load rating	91 048 lbf
Reference speed	1 500 r/min
Limiting speed	3 000 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	3.543 in	Bore diameter
D	4.724 in	Outside diameter
D_w	0.157 in	Diameter roller
E_a	min. 3.701 in	Raceway diameter (min.) roller and cage thrust assembly
E_b	max. 4.646 in	Raceway diameter (max.) roller and cage thrust assembly

Calculation data

Basic dynamic load rating	C	14 725 lbf
Basic static load rating	C_0	91 048 lbf
Fatigue load limit	P_u	11 016 lbf
Reference speed		1 500 r/min
Limiting speed		3 000 r/min

Mass

Mass roller and cage thrust assembly	0.19 lb

Associated products

Universal washer	LS 90120
Thin universal washer	AS 90120
Shaft washer	WS 81118
Housing washer	GS 81118

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