

K 81118 TN

Cylindrical roller and cage thrust assembly



Cylindrical roller and cage thrust assemblies are designed to accommodate heavy axial loads and peak loads in one direction, but not radial loads. Thrust assemblies can be used in applications where the adjacent components serve as raceways and enable bearing arrangements with a low axial section heights. Where the adjacent components cannot serve as raceways, they can be combined with one or two bearing washers to create complete bearings.

- High axial load carrying capacity
- High stiffness
- Long service life
- Require little axial space
- Can be combined with bearing washers

Overview

Dimensions

Bore diameter	90 mm
Outside diameter	120 mm
Height	9 mm

Performance

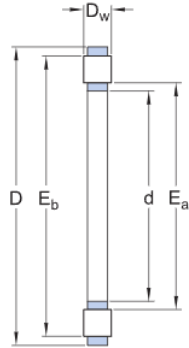
Basic dynamic load rating	110 kN
Basic static load rating	450 kN
Reference speed	1 300 r/min
Limiting speed	2 600 r/min

Properties

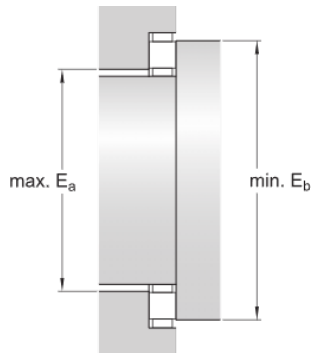
Bearing part	Roller and cage assembly
Axial load capability	Single-direction
Number of rows	1
Cage	Non-metallic
Tolerance class	Normal
Material, bearing	Bearing steel
Coating	Without

Technical Specification

Dimensions



d	90 mm	Bore diameter
D	120 mm	Outside diameter
D _w	9 mm	Diameter roller
E _a	93 mm	Raceway diameter (min.) roller and cage thrust assembly
E _b	117 mm	Raceway diameter (max.) roller and cage thrust assembly



Calculation data

Basic dynamic load rating	C	110 kN
Basic static load rating	C ₀	450 kN
Fatigue load limit	P _u	45.5 kN
Reference speed		1 300 r/min
Limiting speed		2 600 r/min
Minimum axial load factor	A	0.0162

Mass

Mass roller and cage thrust assembly

0.15 kg

Associated products

Shaft washer

WS 81118

Housing washer

GS 81118

Universal washer

LS 90120

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