

K 81116 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	80 mm
Outside diameter	105 mm
Height	7.5 mm

Performance

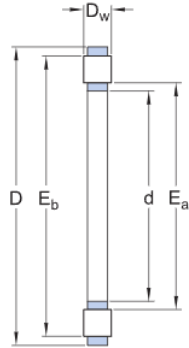
Basic dynamic load rating	81.5 kN
Basic static load rating	335 kN
Reference speed	1 500 r/min
Limiting speed	3 000 r/min

Properties

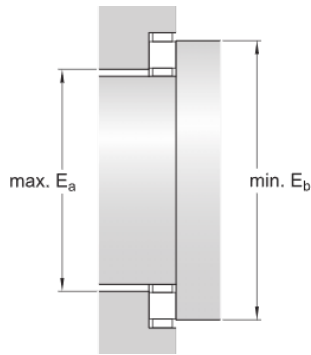
Bearing part	Roller and cage assembly
Axial load capability	Single-direction
Number of rows	1
Cage	Non-metallic
Tolerance class	Normal
Material, bearing	Bearing steel
Coating	Without

Technical Specification

Dimensions



d	80 mm	Bore diameter
D	105 mm	Outside diameter
D _w	7.5 mm	Diameter roller
E _a	83 mm	Raceway diameter (min.) roller and cage thrust assembly
E _b	102 mm	Raceway diameter (max.) roller and cage thrust assembly



Calculation data

Basic dynamic load rating	C	81.5 kN
Basic static load rating	C ₀	335 kN
Fatigue load limit	P _u	34 kN
Reference speed		1 500 r/min
Limiting speed		3 000 r/min
Minimum axial load factor	A	0.00898

Mass

Mass roller and cage thrust assembly

0.095 kg

Associated products

Shaft washer

WS 81116

Housing washer

GS 81116

Universal washer

LS 80105

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