

# K 81106 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	30 mm
Outside diameter	47 mm
Thickness	5 mm

### Performance

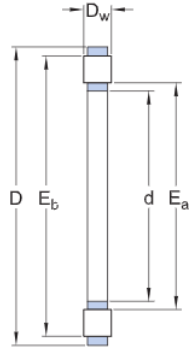
Basic dynamic load rating	27 kN
Basic static load rating	78 kN
Limiting speed	6 000 r/min
Reference speed	3 000 r/min

## Properties

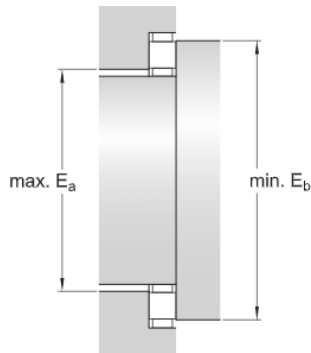
Axial load capability	Single-direction
Bearing part	Roller and cage assembly
Cage	Non-metallic
Coating	Without
Material, bearing	Bearing steel
Number of rows	1
Tolerance class	Normal

# Technical Specification

## Dimensions



d	30 mm	Bore diameter
D	47 mm	Outside diameter
D <sub>w</sub>	5 mm	Diameter roller
E <sub>a</sub>	31 mm	Raceway diameter (min.) roller and cage thrust assembly
E <sub>b</sub>	46 mm	Raceway diameter (max.) roller and cage thrust assembly



## Calculation data

Basic dynamic load rating	C	27 kN
Basic static load rating	C <sub>0</sub>	78 kN
Fatigue load limit	P <sub>u</sub>	7.65 kN
Reference speed		3 000 r/min
Limiting speed		6 000 r/min
Minimum axial load factor	A	0.000487

## Mass

Mass roller and cage thrust assembly	0.017 kg
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## Associated products

Shaft washer	WS 81106
Housing washer	GS 81106
Universal washer	LS 3047

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