



# AXK 3047 Needle 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	30 mm
Outside diameter	47 mm
Height	2 mm

## Performance

Basic dynamic load rating	15 kN
Basic static load rating	72 kN
Reference speed	3 600 r/min
Limiting speed	7 000 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	30 mm	Bore diameter
D	47 mm	Outside diameter
$D_w$	2 mm	Diameter roller
$E_a$	min. 34 mm	Raceway diameter (min.) roller and cage thrust assembly
$E_b$	max. 46 mm	Raceway diameter (max.) roller and cage thrust assembly

### Calculation data

Basic dynamic load rating	C	15 kN
Basic static load rating	$C_0$	72 kN
Fatigue load limit	$P_u$	8.3 kN
Reference speed		3 600 r/min
Limiting speed		7 000 r/min

### Mass

Mass roller and cage thrust assembly	0.008 kg
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### Associated products

Universal washer	LS 3047
Thin universal washer	AS 3047
Shaft washer	WS 81106
Housing washer	GS 81106

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