

# 81111 TN



## Single row cylindrical roller thrust bearing, single direction

Single row cylindrical roller thrust bearings are designed to accommodate heavy axial loads and peak loads in one direction, but not radial loads. They provide a high degree of stiffness and require little axial space. They are mainly used in applications where thrust ball bearings do not have sufficient load carrying capacity. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High axial load carrying capacity
- High stiffness
- Long service life
- Require little axial space
- Separable design

## Overview

### Dimensions

Bore diameter	55 mm
Outside diameter	78 mm
Height	16 mm

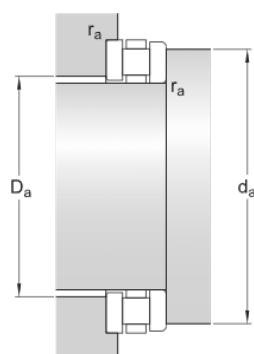
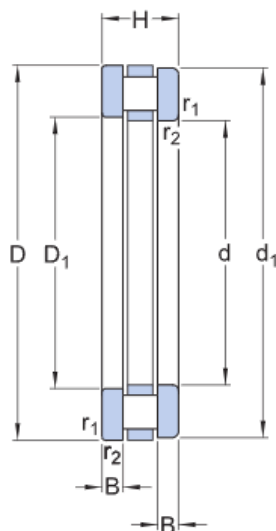
### Performance

Basic dynamic load rating	69.5 kN
Basic static load rating	285 kN
Reference speed	1 900 r/min
Limiting speed	3 800 r/min

### Properties

Bearing part	Complete bearing
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	55 mm	Bore diameter
D	78 mm	Outside diameter
H	16 mm	Height
d <sub>1</sub>	78 mm	Outside diameter shaft washer
D <sub>1</sub>	57 mm	Bore diameter housing washer
B	5 mm	Height shaft washer
r <sub>1,2</sub>	min. 0.6 mm	Chamfer dimension housing washer

## Abutment dimensions

d <sub>a</sub>	min. 77 mm	Abutment diameter shaft
D <sub>a</sub>	max. 56 mm	Abutment diameter housing
r <sub>a</sub>	max. 0.6 mm	Fillet radius

## Calculation data

Basic dynamic load rating	C	69.5 kN
Basic static load rating	C <sub>0</sub>	285 kN
Fatigue load limit	P <sub>u</sub>	29 kN
Reference speed		1 900 r/min
Limiting speed		3 800 r/min
Minimum axial load factor	A	0.0065

## Mass

Mass bearing	0.23 kg
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## Included products

Roller and cage thrust assembly	K 81111 TN
Shaft washer	WS 81111
Housing washer	GS 81111

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