

81120 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	100 mm
Outside diameter	135 mm
Height	25 mm

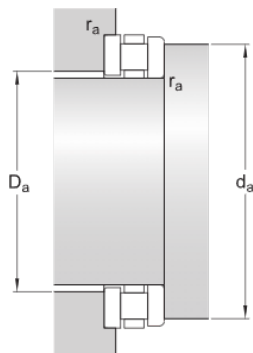
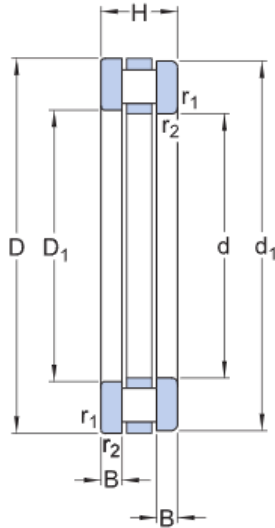
Performance

Basic dynamic load rating	156 kN
Basic static load rating	630 kN
Reference speed	1 200 r/min
Limiting speed	2 400 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	100 mm	Bore diameter
D	135 mm	Outside diameter
H	25 mm	Height
d ₁	135 mm	Outside diameter shaft washer
D ₁	102 mm	Bore diameter housing washer
B	7 mm	Height shaft washer
r _{1,2}	min. 1 mm	Chamfer dimension housing washer

Abutment dimensions

d _a	min. 131 mm	Abutment diameter shaft
D _a	max. 104 mm	Abutment diameter housing
r _a	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	156 kN
Basic static load rating	C ₀	630 kN
Fatigue load limit	P _u	62 kN
Reference speed		1 200 r/min
Limiting speed		2 400 r/min
Minimum axial load factor	A	0.0318

Mass

Mass bearing	0.95 kg
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Included products

Roller and cage thrust assembly	K 81120 TN
Shaft washer	WS 81120
Housing washer	GS 81120

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