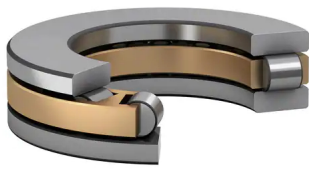


81156 M



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	280 mm
Outside diameter	350 mm
Height	53 mm

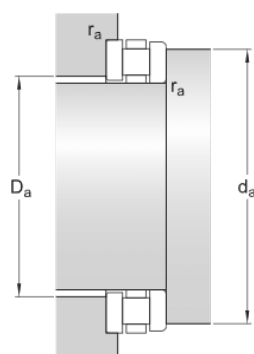
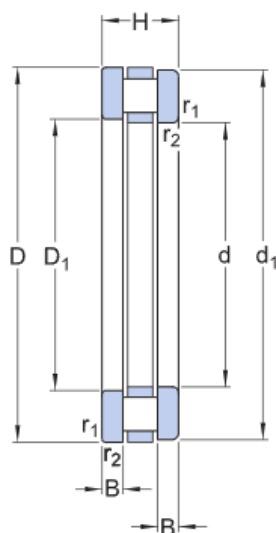
Performance

Basic dynamic load rating	680 kN
Basic static load rating	3 550 kN
Reference speed	480 r/min
Limiting speed	950 r/min

Properties

Bearing part	Complete bearing
Axial load capability	Single-direction
Number of rows	1
Cage	Machined metal
Tolerance class	Normal
Material, bearing	Bearing steel
Coating	Without

Technical Specification



Dimensions

d	280 mm	Bore diameter
D	350 mm	Outside diameter
H	53 mm	Height
d ₁	347 mm	Outside diameter shaft washer
D ₁	283 mm	Bore diameter housing washer
B	15.5 mm	Height shaft washer
r _{1,2}	min. 1.5 mm	Chamfer dimension housing washer

Abutment dimensions

d _a	min. 346 mm	Abutment diameter shaft
D _a	max. 288 mm	Abutment diameter housing
r _a	max. 1.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	680 kN
Basic static load rating	C ₀	3 550 kN
Fatigue load limit	P _u	275 kN
Reference speed		480 r/min
Limiting speed		950 r/min
Minimum axial load factor	A	1.008

Mass

Mass bearing	12.6 kg
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Included products

Roller and cage thrust assembly	K 81156 M
Shaft washer	WS 81156
Housing washer	GS 81156

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