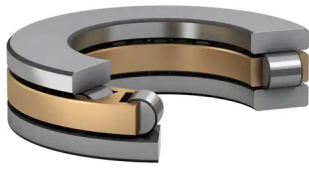


81144 M



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	220 mm
Outside diameter	270 mm
Height	37 mm

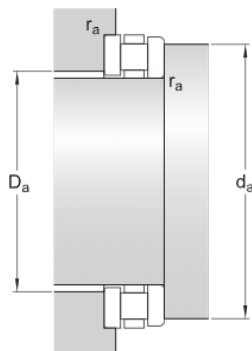
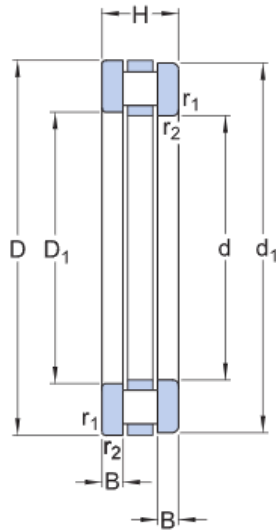
Performance

Basic dynamic load rating	335 kN
Basic static load rating	1 700 kN
Reference speed	670 r/min
Limiting speed	1 300 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	220 mm	Bore diameter
D	270 mm	Outside diameter
H	37 mm	Height
d ₁	267 mm	Outside diameter shaft washer
D ₁	223 mm	Bore diameter housing washer
B	11 mm	Height shaft washer
r _{1,2}	min. 1.1 mm	Chamfer dimension housing washer

Abutment dimensions

d _a	min. 263 mm	Abutment diameter shaft
D _a	max. 226 mm	Abutment diameter housing
r _a	max. 1.1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	335 kN
Basic static load rating	C ₀	1 700 kN
Fatigue load limit	P _u	137 kN
Reference speed		670 r/min
Limiting speed		1 300 r/min
Minimum axial load factor	A	0.231

Mass

Mass bearing	5.22 kg
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Included products

Roller and cage thrust assembly	K 81144 M
Shaft washer	WS 81144
Housing washer	GS 81144

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