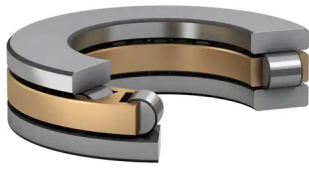


81152 M



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	260 mm
Outside diameter	320 mm
Height	45 mm

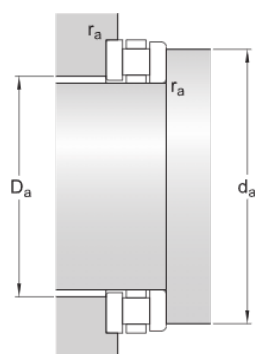
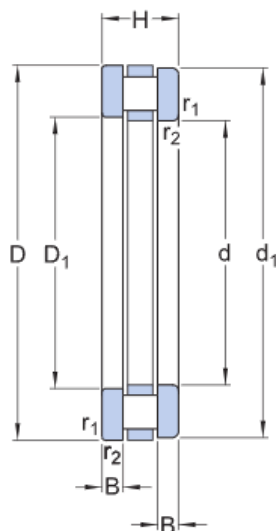
Performance

Basic dynamic load rating	490 kN
Basic static load rating	2 600 kN
Reference speed	530 r/min
Limiting speed	1 100 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	260 mm	Bore diameter
D	320 mm	Outside diameter
H	45 mm	Height
d ₁	317 mm	Outside diameter shaft washer
D ₁	263 mm	Bore diameter housing washer
B	13.5 mm	Height shaft washer
r _{1,2}	min. 1.5 mm	Chamfer dimension housing washer

Abutment dimensions

d _a	min. 316 mm	Abutment diameter shaft
D _a	max. 268 mm	Abutment diameter housing
r _a	max. 1.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	490 kN
Basic static load rating	C ₀	2 600 kN
Fatigue load limit	P _u	200 kN
Reference speed		530 r/min
Limiting speed		1 100 r/min
Minimum axial load factor	A	0.541

Mass

Mass bearing	9.08 kg
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Included products

Roller and cage thrust assembly	K 81152 M
Shaft washer	WS 81152
Housing washer	GS 81152

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