

81138 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	190 mm
Outside diameter	240 mm
Height	37 mm

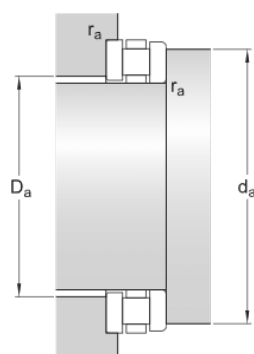
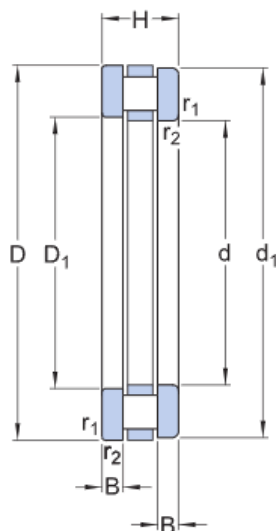
Performance

Basic dynamic load rating	310 kN
Basic static load rating	1 460 kN
Reference speed	700 r/min
Limiting speed	1 400 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	190 mm	Bore diameter
D	240 mm	Outside diameter
H	37 mm	Height
d ₁	237 mm	Outside diameter shaft washer
D ₁	193 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. 233 mm	Abutment diameter shaft
D _a	max. 197 mm	Abutment diameter housing
r _a	max. 1.1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	310 kN
Basic static load rating	C ₀	1 460 kN
Fatigue load limit	P _u	125 kN
Reference speed		700 r/min
Limiting speed		1 400 r/min
Minimum axial load factor	A	0.171

Mass

Mass bearing	4.74 kg
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Included products

Roller and cage thrust assembly	K 81138 M
Shaft washer	WS 81138
Housing washer	GS 81138

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