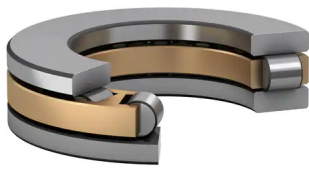# 81232 M

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	160 mm
Outside diameter	225 mm
Height	51 mm

Performance

Basic dynamic load rating	480 kN
Basic static load rating	2 000 kN
Reference speed	600 r/min
Limiting speed	1 200 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
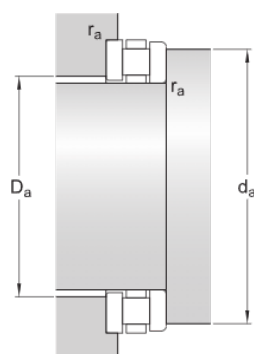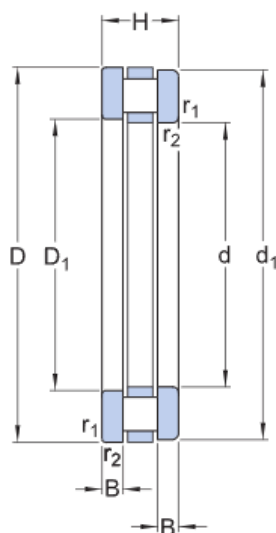
Dimensions

d	160	mm	Bore diameter
D	225	mm	Outside diameter
H	51	mm	Height
d_1	222	mm	Outside diameter shaft washer
D_1	163	mm	Bore diameter housing washer
B	15	mm	Height shaft washer
$r_{1,2}$	min. 1.5	mm	Chamfer dimension housing washer

Abutment dimensions

d_a	min. 220	mm	Abutment diameter shaft
D_a	max. 168	mm	Abutment diameter housing
r_a	max. 1.5	mm	Fillet radius

Calculation data

Basic dynamic load rating	C	480	kN
Basic static load rating	C_0	2 000	kN
Fatigue load limit	P_u	176	kN
Reference speed		600	r/min
Limiting speed		1 200	r/min
Minimum axial load factor	A	0.32	

Mass

Mass bearing	7.61 kg

Included products

Roller and cage thrust assembly	K 81232 M
Shaft washer	WS 81232
Housing washer	GS 81232

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