



Image may differ from product. See technical specification for details.

81222 TN

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	110 mm
Outside diameter	160 mm
Height	38 mm

Performance

Basic dynamic load rating	260 kN
Basic static load rating	1 000 kN
Reference speed	850 r/min
Limiting speed	1 700 r/min

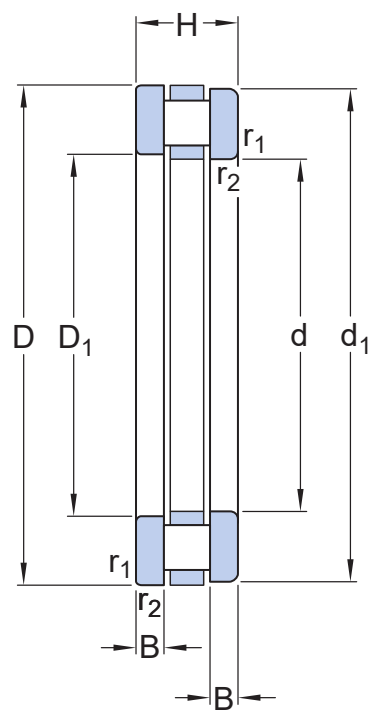
Properties

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

Logistics

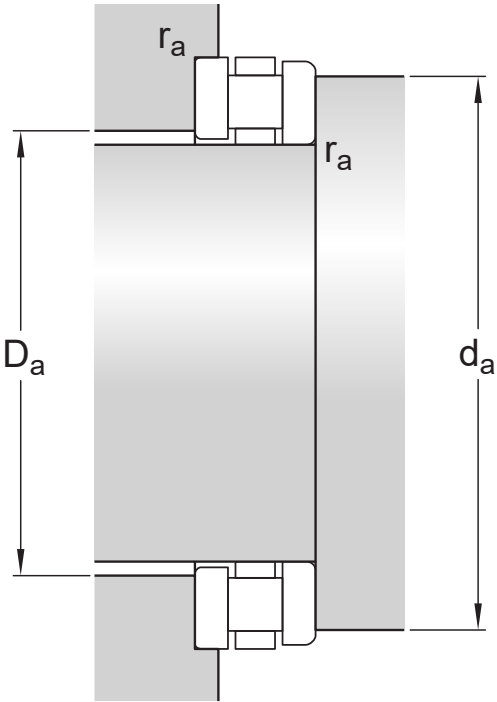
Product net weight	2.29 kg
UNSPSC code	31171505

Technical specification



Dimensions

d	110 mm	Bore diameter
D	160 mm	Outside diameter
H	38 mm	Height
d ₁	160 mm	Outside diameter shaft washer
D ₁	113 mm	Bore diameter housing washer
B	11.5 mm	Height shaft washer
r _{1,2}	min. 1.1 mm	Chamfer dimension housing washer



Abutment dimensions

d_a	min. 152 mm	Abutment diameter shaft
D_a	max. 117 mm	Abutment diameter housing
r_a	max. 1.1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	260 kN
Basic static load rating	C_0	1 000 kN
Fatigue load limit	P_u	98 kN
Reference speed		850 r/min
Limiting speed		1 700 r/min
Minimum axial load factor	A	0.08

Included products

Roller and cage thrust assembly	K 81222 TN
Shaft washer	WS 81222
Housing washer	GS 81222

Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

- Tolerances: [table](#), [table](#), [values](#)

DESIGN CONSIDERATIONS

- [table](#)

BEARING INTERFACES

- [Seat tolerances for standard conditions](#)

Compatible products

Component

WS shaft washer for cylindrical and needle roller thrust bearings	WS 81222
GS housing washer for cylindrical and needle roller thrust bearings	GS 81222

More Information

 Product details Designs and variants General bearing specifications Loads Temperature limits Permissible speed Design considerations Designation system	 Engineering information Principles of rolling bearing selection General bearing knowledge Bearing selection process Bearing failure and how to prevent it	 Tools SimPro Quick SKF Product select Bearing Frequency Calculator LubeSelect for SKF greases Heater selection tool
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