81104 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	20 mm
Outside diameter	35 mm
Height	10 mm

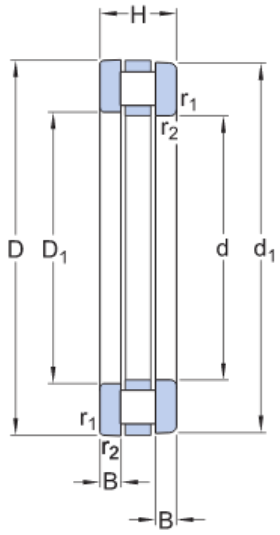
Performance

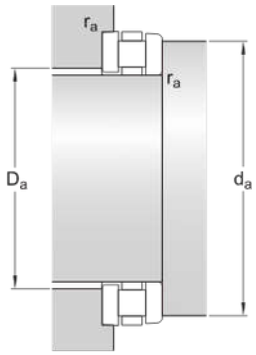
Basic dynamic load rating	18.6 kN
Basic static load rating	48 kN
Reference speed	3 800 r/min
Limiting speed	7 500 r/min

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

Technical Specification





Dimensions

d	20 mm	Bore diameter
D	35 mm	Outside diameter
H	10 mm	Height
d_1	35 mm	Outside diameter shaft washer
D_1	21 mm	Bore diameter housing washer
B	2.75 mm	Height shaft washer
$r_{1,2}$	min. 0.3 mm	Chamfer dimension housing washer

Abutment dimensions

d_a	min. 34 mm	Abutment diameter shaft
D_a	max. 21 mm	Abutment diameter housing
r_a	max. 0.3 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	18.6 kN
Basic static load rating	C_0	48 kN
Fatigue load limit	P_u	4.65 kN
Reference speed		3 800 r/min
Limiting speed		7 500 r/min
Minimum axial load factor	A	0.000184

Mass

Mass bearing	0.037 kg

Included products

Roller and cage thrust assembly	K 81104 TN
Shaft washer	WS 81104
Housing washer	GS 81104

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