



# 81110 TN

- Popular item

## Cylindrical roller thrust bearings

Bearing data, Design considerations

[Tolerances,](#)

table, table, values,

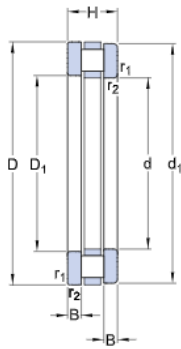
[Design considerations,](#)

table

Bearing interfaces

[Seat tolerances for standard conditions](#)

## Technical specification

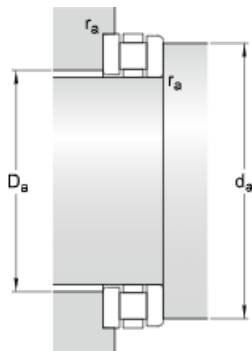


### DIMENSIONS

d	50 mm	Bore diameter
D	70 mm	Outside diameter
H	14 mm	Nominal height
d1	70 mm	Outside diameter shaft washer
D1	52 mm	Bore diameter housing washer
B	4 mm	Height shaft washer
r1,2	min.0.6 mm	Chamfer dimension housing washer

### ABUTMENT DIMENSIONS

da	min.68 mm	Abutment diameter shaft
Da	max.52 mm	Abutment diameter housing
ra	max.0.6 mm	Fillet radius



## CALCULATION DATA

Basic dynamic load rating	C	47.5 kN
Basic static load rating	$C_0$	166 kN
Fatigue load limit	$P_u$	16.6 kN
Reference speed		2 200 r/min
Limiting speed		4 300 r/min
Minimum axial load factor	A	0.002

## MASS

Mass bearing	0.14 kg
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## INCLUDED PRODUCTS

Roller and cage thrust assembly	K 81110 TN
Shaft washer	WS 81110
Housing washer	GS 81110

More information

Product details	Product details	Engineering information	Engineering information	Tools	Tools
<a href="#">Designs and variants</a>	<a href="#">Designs and variants</a>	<a href="#">Principles of rolling bearing selection</a>	<a href="#">Principles of rolling bearing selection</a>	<a href="#">SimPro Quick</a>	<a href="#">SimPro Quick</a>
<a href="#">Bearing data</a>	<a href="#">Bearing data</a>	<a href="#">General bearing knowledge</a>	<a href="#">General bearing knowledge</a>	<a href="#">Bearing Select</a>	<a href="#">Bearing Select</a>
<a href="#">Loads</a>	<a href="#">Loads</a>	<a href="#">Bearing selection process</a>	<a href="#">Bearing selection process</a>	<a href="#">Engineering Calculator</a>	<a href="#">Engineering Calculator</a>
<a href="#">Temperature limits</a>	<a href="#">Temperature limits</a>	<a href="#">Bearing failure and how to prevent it</a>	<a href="#">Bearing failure and how to prevent it</a>	<a href="#">LubeSelect for SKF greases</a>	<a href="#">LubeSelect for SKF greases</a>
<a href="#">Permissible speed</a>	<a href="#">Permissible speed</a>			<a href="#">Heater selection tool</a>	<a href="#">Heater selection tool</a>
<a href="#">Design considerations</a>	<a href="#">Design considerations</a>				
<a href="#">Designation system</a>	<a href="#">Designation system</a>				

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