

81220 TN

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



Dimensions		
d	100 mm	Bore diameter
D	150 mm	Outside diameter
H	38 mm	Height
d ₁	150 mm	Outside diameter shaft washer
D ₁	103 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. 142 mm	Abutment diameter shaft
D _a	max. 107 mm	Abutment diameter housing
r _a	max. 1.1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	270 kN
Basic static load rating	C ₀	1 060 kN
Fatigue load limit	P _u	104 kN
Reference speed		900 r/min
Limiting speed		1 800 r/min
Minimum axial load factor	A	0.0899

Included products

Roller and cage thrust assembly	K 81220 TN
Shaft washer	WS 81220
Housing washer	GS 81220

Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

- Tolerances: table, table, values

DESIGN CONSIDERATIONS

- table

BEARING INTERFACES

- Seat tolerances for standard conditions