

SKF 81111 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.

Technical specifications

Dimensions	
Bore diameter	55 mm
Outside diameter	78 mm
Height	16 mm
Outside diameter shaft washer	78 mm
Bore diameter housing washer	57 mm
Height shaft washer	5 mm
Chamfer dimension housing washer	0.6 mm

Abutment dimensions	
Abutment diameter shaft	77 mm
Abutment diameter housing	56 mm
Fillet radius	0.6 mm

Calculation data	
Basic dynamic load rating	69.5 kN
Basic static load rating	285 kN
Fatigue load limit	29 kN
Reference speed	1900 r/min
Limiting speed	3800 r/min
Minimum axial load factor	0.006

Included products	
Roller and cage thrust assembly	K 81111 TN
Shaft washer	WS 81111
Housing washer	GS 81111

Performance	
Basic dynamic load rating	69.5 kN
Basic static load rating	285 kN
Reference speed	1900 r/min
Limiting speed	3800 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
Indicative carbon footprint for new product	0.83 kg CO ₂

Logistics	
Product net weight	0.231 kg
UNSPSC code	31171505

SKF drawings