

SKF 81109 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	45 mm
Outside diameter	65 mm
Height	14 mm
Outside diameter shaft washer	65 mm
Bore diameter housing washer	47 mm
Height shaft washer	4 mm
Chamfer dimension housing washer	0.6 mm

Abutment dimensions	
Abutment diameter shaft	63 mm
Abutment diameter housing	47 mm
Fillet radius	0.6 mm

Calculation data	
Basic dynamic load rating	45 kN
Basic static load rating	153 kN
Fatigue load limit	15.3 kN
Reference speed	2200 r/min
Limiting speed	4500 r/min
Minimum axial load factor	0.002

Included products	
Roller and cage thrust assembly	K 81109 TN
Shaft washer	WS 81109
Housing washer	GS 81109

Performance	
Basic dynamic load rating	45 kN
Basic static load rating	153 kN
Reference speed	2200 r/min
Limiting speed	4500 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	0.47 kg CO ₂ e

Logistics	
Product net weight	0.13 kg
UNSPSC code	31171505

SKF drawings

