

SKF 81209 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	73 mm
Height	20 mm
Outside diameter shaft washer	73 mm
Bore diameter housing washer	47 mm
Height shaft washer	5.5 mm
Chamfer dimension housing washer	1 mm

Abutment dimensions	
Abutment diameter shaft	70 mm
Abutment diameter housing	48 mm
Fillet radius	1 mm

Calculation data	
Basic dynamic load rating	83 kN
Basic static load rating	255 kN
Fatigue load limit	26.5 kN
Reference speed	1800 r/min
Limiting speed	3600 r/min
Minimum axial load factor	0.005

Included products	
Roller and cage thrust assembly	K 81209 TN
Shaft washer	WS 81209
Housing washer	GS 81209

Performance	
Basic dynamic load rating	83 kN
Basic static load rating	255 kN
Reference speed	1800 r/min
Limiting speed	3600 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	1 kg CO ₂ e

Logistics	
Product net weight	0.288 kg
UNSPSC code	31171505

SKF drawings

