

SKF 81210 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	50 mm
Outside diameter	78 mm
Height	22 mm
Outside diameter shaft washer	78 mm
Bore diameter housing washer	52 mm
Height shaft washer	6.5 mm
Chamfer dimension housing washer	1 mm

Abutment dimensions	
Abutment diameter shaft	75 mm
Abutment diameter housing	53 mm
Fillet radius	1 mm

Calculation data	
Basic dynamic load rating	91.5 kN
Basic static load rating	300 kN
Fatigue load limit	31 kN
Reference speed	1700 r/min
Limiting speed	3400 r/min
Minimum axial load factor	0.007

Included products	
Roller and cage thrust assembly	K 81210 TN
Shaft washer	WS 81210
Housing washer	GS 81210

Performance	
Basic dynamic load rating	91.5 kN
Basic static load rating	300 kN
Reference speed	1700 r/min
Limiting speed	3400 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	1.3 kg CO ₂

Logistics	
Product net weight	0.364 kg
UNSPSC code	31171505

SKF drawings

