



SKF RNAO 12X22X12 TN

Single row needle roller bearing with machined rings, without flanges and inner ring

Single row needle roller bearings without an inner ring consist of an outer ring with a needle roller and cage assembly. They are an excellent choice for compact bearing arrangements in applications where hardened and ground raceways can be provided on the shaft. Bearings without flanges on the outer ring are separable, i.e. the outer ring and the needle roller and cage assembly can be mounted separately.

Technical specifications

Dimensions	
Diameter under rollers	12 mm
Outside diameter	22 mm
Width	12 mm
Raceway diameter outer ring	18 mm
Chamfer dimension outer ring	0.3 mm
Bore diameter of needle roller complement	12 mm

Abutment dimensions	
Smallest permissible abutment diameter shaft, bearings without flanges	17.6 mm
Diameter of housing abutment	18.3 mm
Smallest permissible abutment diameter housing, bearings without flanges	12.3 mm
Fillet radius	0.3 mm

Calculation data	
Basic dynamic load rating	9.52 kN
Basic static load rating	10 kN
Fatigue load limit	1.18 kN
Reference speed	26000 r/min
Limiting speed	30000 r/min

Performance	
Basic dynamic load rating	9.52 kN
Basic static load rating	10 kN
Reference speed	26000 r/min
Limiting speed	30000 r/min

Properties	
Bearing part	Bearing without inner ring
Number of rows	1
Outer ring type	Machined (solid)
Aligning feature	Without
Cage	Non-metallic
Number of flanges, outer ring	0
Tolerance class	Normal
Material, bearing	Bearing steel
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without
Indicative carbon footprint for new product	0.06 kg CO ₂ e

Logistics	
Product net weight	0.017 kg
eClass code	23-05-09-03
UNSPSC code	31171512

SKF drawings

