



SKF K 45X50X27

Single row needle roller and cage assembly

Needle roller and cage assemblies are self-contained, ready-to-mount bearings without inner and outer rings. In applications where the shaft and housing bore can serve as raceways, the assemblies can be used to create bearing arrangements that require minimal radial space. As the clearance of the bearing arrangement is only affected by the roller sorting and the finish of shaft and housing, very precise bearing arrangements can be achieved.

Technical specifications

Dimensions	
Diameter under rollers	45 mm
Outside diameter roller complement	50 mm
Width needle roller and cage assembly	27 mm
Bore diameter of needle roller complement	45 mm
Outside diameter	50 mm
Outside diameter of needle roller complement	50 mm
Width	27 mm

Calculation data	
Basic dynamic load rating	33 kN
Basic static load rating	81.5 kN
Fatigue load limit	10 kN
Reference speed	9000 r/min
Limiting speed	10000 r/min

Performance	
Basic dynamic load rating	33 kN
Basic static load rating	81.5 kN
Reference speed	9000 r/min
Limiting speed	10000 r/min

Properties	
Bearing part	Needle roller and cage assembly
Number of rows	1
Outer ring type	Not applicable
Aligning feature	Without
Cage	Sheet steel
Tolerance class	Normal
Material, bearing	Bearing steel
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without
Indicative carbon footprint for new product	0.19 kg CO ₂

Logistics	
Product net weight	0.053 kg
eClass code	23-05-09-03
UNSPSC code	31171512

SKF drawings

