



Image may differ from product. See technical specification for details.

K 9X12X10 TN

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.

- High radial load carrying capacity
- High stiffness
- High precision
- Lowest cross-sectional height among rolling bearings
- Accommodate axial displacement in both directions

Overview

Dimensions

Bore diameter of needle roller complement	9 mm
Outside diameter	12 mm
Outside diameter of needle roller complement	12 mm
Width	10 mm

Performance

Basic dynamic load rating	4.4 kN
Basic static load rating	5.2 kN
Reference speed	30 000 r/min
Limiting speed	34 000 r/min

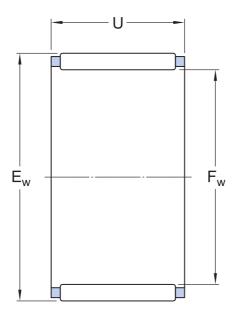
Properties

Bearing part	Needle roller and cage assembly	
Number of rows	1	
Outer ring type	Not applicable	
Aligning feature	Without	
Cage	Non-metallic	
Tolerance class	Normal	
Material, bearing	Bearing steel	
Coating	Without	
Sealing	Without	
Lubricant	None	
Relubrication feature	Without	

Logistics

Product net weight	0.0014 kg
eClass code	23-05-09-03
UNSPSC code	31171512

Technical specification



Dimensions

F _w	9 mm	Diameter under rollers
E _w	12 mm	Outside diameter roller complement
U	10 mm	Width needle roller and cage assembly

Calculation data

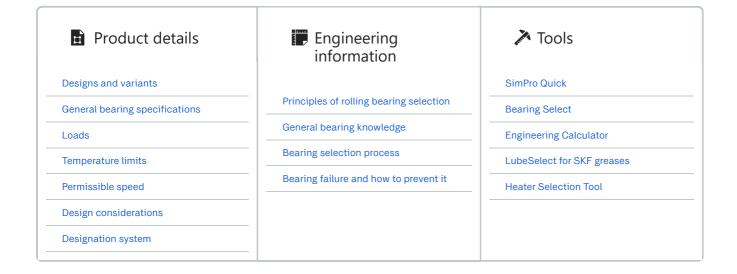
Basic dynamic load rating	С	4.4 kN
Basic static load rating	C_0	5.2 kN
Fatigue load limit	P_{u}	0.57 kN
Reference speed		30 000 r/min
Limiting speed		34 000 r/min

Mass

Mass needle roller and cage assembly

0.0015 kg

More Information





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