



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

K 10X14X13 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	10 mm
Outside diameter	14 mm
Outside diameter of needle roller complement	14 mm
Width	13 mm

Performance

Basic dynamic load rating	7.21 kN
Basic static load rating	8.5 kN
Reference speed	28 000 r/min
Limiting speed	32 000 r/min

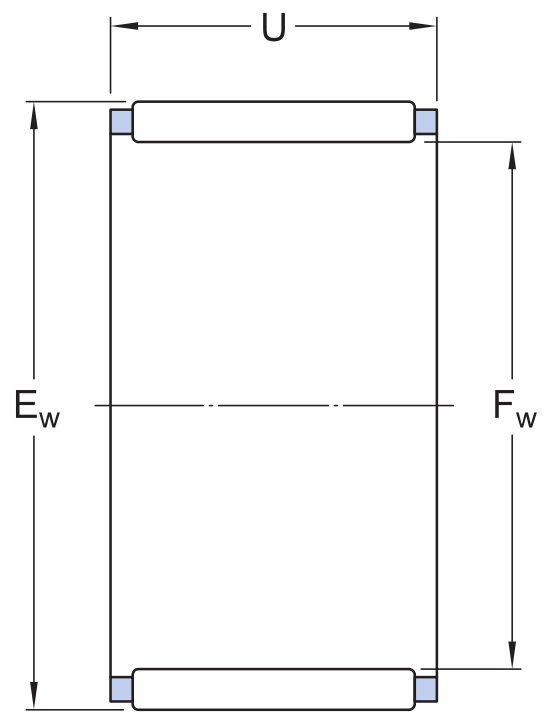
Properties

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	0.004 kg
eClass code	23-05-09-03
UNSPSC code	31171512

Technical specification



Dimensions

F _w	10 mm	Diameter under rollers
E _w	14 mm	Outside diameter roller complement
U	13 mm	Width needle roller and cage assembly

Calculation data

Basic dynamic load rating	C	7.21 kN
Basic static load rating	C ₀	8.5 kN
Fatigue load limit	P _u	0.98 kN
Reference speed		28 000 r/min
Limiting speed		32 000 r/min

Associated products

Designation associated G design radial shaft seal with a low cross-sectional height	G 10x14x3
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Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

- Tolerances: gauges
- Radial internal clearance

DESIGN CONSIDERATIONS

- [Shaft and housing tolerances](#)

Compatible products

Recommended product

Radial shaft seal with low cross-sectional height for needle roller bearings, G design

[G 10X14X3](#)

More Information

 Product details Designs and variants General bearing specifications Loads Temperature limits Permissible speed Design considerations Designation system	 Engineering information Principles of rolling bearing selection General bearing knowledge Bearing selection process Bearing failure and how to prevent it	 Tools SimPro Quick Bearing Select Engineering Calculator LubeSelect for SKF greases Heater Selection Tool
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