



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

K 12X15X10 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	12 mm
Outside diameter	15 mm
Outside diameter of needle roller complement	15 mm
Width	10 mm

Performance

Basic dynamic load rating	4.73 kN
Basic static load rating	6.2 kN
Reference speed	26 000 r/min
Limiting speed	30 000 r/min

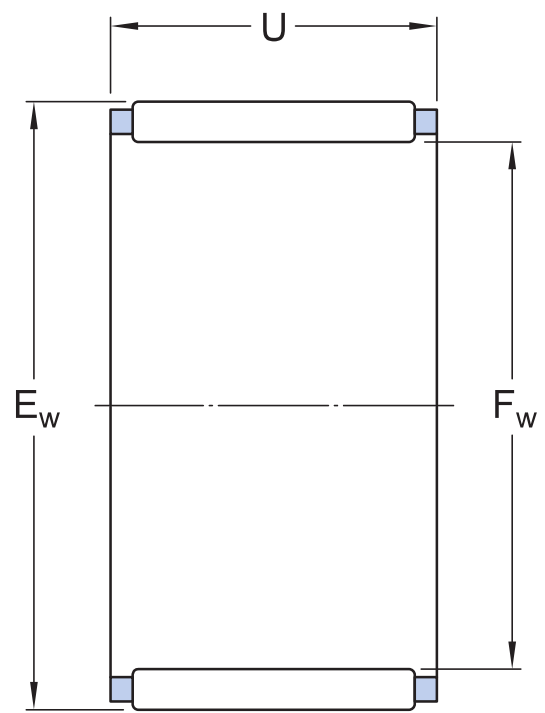
Properties

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

Technical specification



Dimensions

F_w	12 mm	Diameter under rollers
E_w	15 mm	Outside diameter roller complement
U	10 mm	Width needle roller and cage assembly

Calculation data

Basic dynamic load rating	C	4.73 kN
Basic static load rating	C_0	6.2 kN
Fatigue load limit	P_u	0.695 kN
Reference speed		26 000 r/min
Limiting speed		30 000 r/min

Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

- [Tolerances: gauges](#)
- [Radial internal clearance](#)

DESIGN CONSIDERATIONS

- [Shaft and housing tolerances](#)

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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