K 10X13X10 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	13 mm
Outside diameter of needle roller complement	13 mm
Width	10 mm

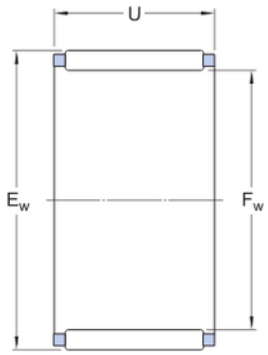
Performance

Basic dynamic load rating	4.57 kN
Basic static load rating	5.7 kN
Limiting speed	32 000 r/min
Reference speed	28 000 r/min

Properties

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

Technical Specification



Dimensions

F_w	10 mm	Diameter under rollers
E_w	13 mm	Outside diameter roller complement
U	10 mm	Width needle roller and cage assembly

Calculation data

Basic dynamic load rating	C	4.57 kN
Basic static load rating	C_0	5.7 kN
Fatigue load limit	P_u	0.63 kN
Reference speed		28 000 r/min
Limiting speed		32 000 r/min

Mass

Mass needle roller and cage assembly	0.0016 kg

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