

# 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

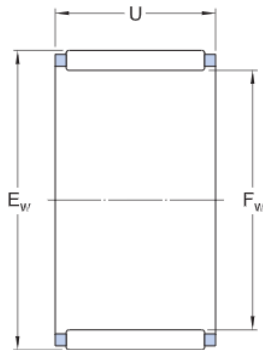
### Performance

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

$F_w$	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

### Mass

Mass needle roller and cage assembly	0.0029 kg
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