

K 43X48X17

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	43 mm
Outside diameter	48 mm
Outside diameter of needle roller complement	48 mm
Width	17 mm

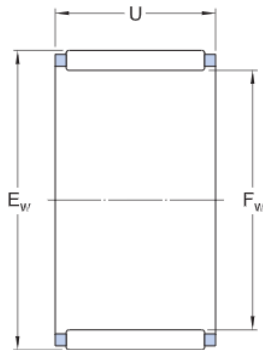
Performance

Basic dynamic load rating	20.9 kN
Basic static load rating	43 kN
Limiting speed	11 000 r/min
Reference speed	9 500 r/min

Properties

Aligning feature	Without
Bearing part	Needle roller and cage assembly
Cage	Sheet steel
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	43 mm	Diameter under rollers
E _w	48 mm	Outside diameter roller complement
U	17 mm	Width needle roller and cage assembly

Calculation data

Basic dynamic load rating	C	20.9 kN
Basic static load rating	C ₀	43 kN
Fatigue load limit	P _u	5.2 kN
Reference speed		9 500 r/min
Limiting speed		11 000 r/min

Mass

Mass needle roller and cage assembly	0.03 kg
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