

K 3X5X7 TN

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



Dimensions		
F_w	3 mm	Diameter under rollers
E_w	5 mm	Outside diameter roller complement
U	7 mm	Width needle roller and cage assembly

Calculation data

Basic dynamic load rating	C	1.51 kN
Basic static load rating	C_0	1.34 kN
Fatigue load limit	P_u	0.134 kN
Reference speed		40 000 r/min
Limiting speed		45 000 r/min

Associated products

Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

- Tolerances: gauges
- Radial internal clearance

DESIGN CONSIDERATIONS

- Shaft and housing tolerances

AGA BEARINGS