

K 45X52X18

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	45 mm	Diameter under rollers
E_w	52 mm	Outside diameter roller complement
U	18 mm	Width needle roller and cage assembly

Calculation data

Basic dynamic load rating	C	30.3 kN
Basic static load rating	C_0	57 kN
Fatigue load limit	P_u	6.95 kN
Reference speed		9 000 r/min
Limiting speed		10 000 r/min

Associated products

Designation associated G design radial shaft seal with a low cross-sectional	G 45x52x4
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height

Designation associated SD design radial shaft seal with a low cross-sectional height SD 45x52x4

Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

- Tolerances: gauges
- Radial internal clearance

DESIGN CONSIDERATIONS

- Shaft and housing tolerances

AGA BEARINGS