



**Mounting of rolling bearings
Mounting of needle roller and
cage assemblies**

Mounting of special types

Features Selection of the suitable mounting method is based not only on the bearing type but also on the adjacent construction and the relevant dimensions. In the case of some rolling bearing types, attention must be paid during mounting to particular features or a particular procedure must be applied, which is discussed in detail below. Further details are given in the product-specific catalogues and brochures. The decisive factor for correct mounting is, however, the mounting manual relating to the application.

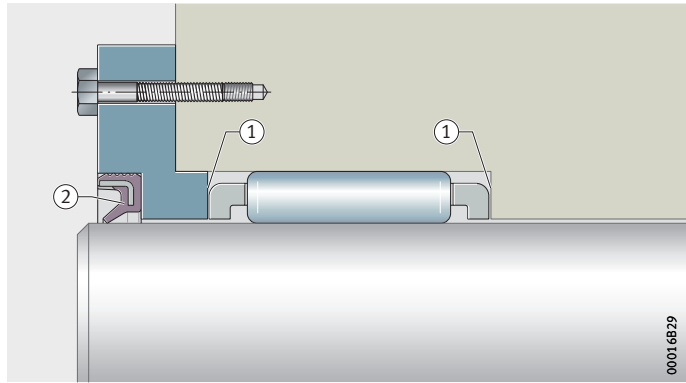
Mounting of needle roller and cage assemblies

Needle roller and cage assemblies are either slid onto the shaft and the parts are then inserted together into the housing, or needle roller and cage assemblies are slid into the housing and the shaft is then inserted. Mounting is carried out without load and using a screw-driver type motion.

Needle roller and cage assemblies can be laterally guided on the shaft or on the housing, *Figure 1*.

- ① Guidance on housing
- ② Guidance on shaft

Figure 1
Guidance of needle roller and cage assemblies



The spacing between the lateral contact running surfaces of the cage must be sufficiently large (tolerance H11), in order to avoid jamming of the needle roller and cage assemblies.

The radial internal clearance of a bearing arrangement with needle roller and cage assemblies is based on the machining tolerances of the hardened and ground raceways on the shaft and in the housing. Needle roller and cage assemblies arranged adjacent to each other must contain needle rollers of the same grade.

Further information

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