

Inner Rings – General Information

General Description

Inner rings are precision, hardened and ground races, used with needle roller and precision needle roller bearings. The rings eliminate the requirement to harden and grind the shaft in the area of the bearing. Many of the inner rings have holes to allow for bearing lubrication.

Precision

The inner rings are precision ground on the bore and outside diameter, the typical tolerance ranges between .0004"-.0010" depending on the size.

Fitting and Mounting

Inner rings can be mounted with a transition fit on the shaft, they should be held in place by shoulders or retaining rings. A press fit can be used when the shaft is rotating at high speed. The outside diameter of the mounted ring must fall within the limits required for the bearing. If the inner ring is a press fit on the shaft then the bearing should be a slip fit in the housing.

