

THE DETERMINATION OF VARIOUS FACTORS INFLUENCING ON CHANGE OF THE MOUNTING FIT AND CALCULATION PROCEDURE OF THE LOAD DISTRIBUTION IN THE CYLINDRICAL ROLLER BEARINGS OPERATED IN TIGHTNESS

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In present work the evaluation of various factors influencing on change of the mounting fit in high speed rolling bearing is presented. Prime factors are thermal effect and influence of centrifugal forces on the sizes of bearing races. The relation between volumetric and contact deformations of mating parts and bearing is considered. A calculation procedure of the load distribution in the cylindrical roller bearings of gas-turbine engines operated in tightness conditions.

Bearing, clearance, tightness, load distribution

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