

This invention relates to induction heating devices and can be used in industry, agriculture and other fields for removing the inner rings of bearings which are mounted on shafts in hot way. Induction heater comprises an annular coil with a yoke covering it, with two side poles, the first of those is in contact with the bearing ring disposed on the shaft and is to be heated directly, and the other - directly or through a transitional magnetic circuit, which is configured as a ring centered in the bore of the side pole and having a through slot. According to the invention, the first side pole is equipped with magnetic centralizer. The transition magnetic conductor is arranged in the form of at least two arcs having contacts in the area of placement of the through slot and interconnected by at least one hinge, and prefabricated ring - with an elastic member mounted on the arc contact elements. The shape and dimensions of the inner surface of the prefabricated ring in the zone of contact with the bearing ring correspond to the shape and size of the outer surface of the bearing ring. Electric heater provides increase of the efficiency of bearings ring heating.