

Equipment for the heat treatment of welded rail joints, in which inductors with magnetic cores are positioned opposite one another and can be moved in the direction of the side surfaces of the rails, has a heating unit, a unit with a sprayer for hardening the running surface of the rails, a control panel, clamps for positioning the equipment on the rails, and clamping devices for securing it at the welded joint. Inductors with magnetic cores are equipped with mechanical retainers that maintain air openings between the inductive wires and side surfaces of the rails. The heating unit is designed as a transformer with a U-shaped strip rod magnetic core, where two primary multi-turn windings are placed on opposite sides of the magnetic core rods and connected in series to a high-frequency power source, features two secondary single-turn windings designed to rotate around the primary windings by an angle necessary to separate the inductors when the equipment is installed on the rail, and connected to the inductors by rigid current-carrying conductors capable of ensuring that the induced current flows on the side surfaces of the rails in opposite directions.