

Portable module for heat treatment of rail welded joints features inductors with magnetic cores positioned opposite each other and capable of moving toward the side surfaces of the rails; it includes a unit with a sprayer for hardening the rolling surface of the rails, a control panel, traps for positioning the equipment on the rails and locking devices for securing it at the welded joint, as well as mechanical spacers to maintain the air gap between the inductors' induction wires and the side surfaces of the rails. The portable module has a heating unit designed as a transformer with a U-shaped strip and shaft magnetic core, in which two primary multi-turn windings are located on opposite shafts of the magnetic core, and has two secondary single-turn windings designed to rotate around the primary windings by the angle required to space the inductors apart when the equipment is installed on the rail. The heating unit's transformer is located above the rail on an additional movable platform and is installed such that the axes of the primary windings are parallel to the rails; the inductors with magnetic cores are located beneath the transformer's secondary windings and are directly connected to them without the use of rigid current leads