

# High frequency induction brazing copper bars for the stator winding

United Induction Heating Machine Limited

We are experienced in Induction Heating, induction heating machine, Induction Heating equipment. They are widely used in induction heating service, induction heat treatment, induction brazing, induction hardening, induction welding, induction forging, induction quenching, induction soldering induction melting and induction surface treatment applications  
<http://www.uihm.com>

High frequency induction brazing is an energy-saving technology. High power densities that are implemented in induction heating, allow to rapidly heat the local area to the soldering temperature 600 - 1200 ° C, at a cost of minimum energy process compared to the traditional method of heating the gas. This is particularly noticeable when soldering massive copper parts when due high thermal conductivity of copper heat quickly from the heating zone to the adjacent oblasti. Krome unnecessary energy consumption during slow heating of soldering quality is deteriorating due to lower efficiency of flux, broken insulation adjacent to the area of soldering area of the conductor, heat adjacent components, reduced productivity.

An example of the possibility of effective application of induction heating can serve as soldering copper bars stator windings of DC motors.

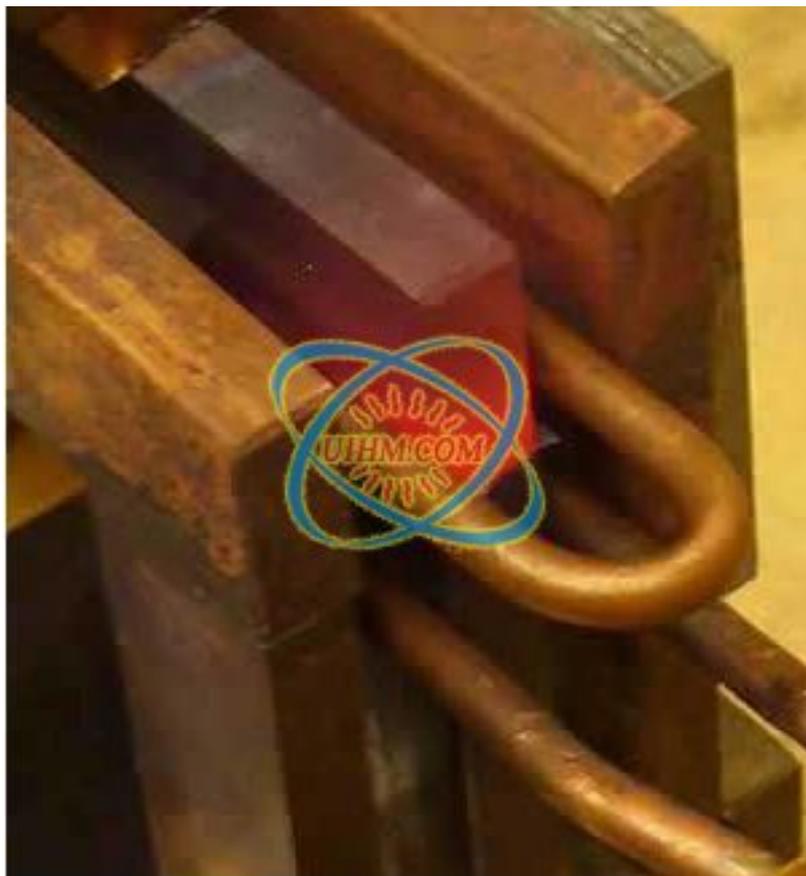
Gas heating does not allow the solder directly when laying in the slots of the stator windings for the above reasons, therefore, as a rule, soldering windings gas on a special stand to isolate and then fully welded multi-turn coil is partially insulated fit into slots of the stator and then finally isolated.

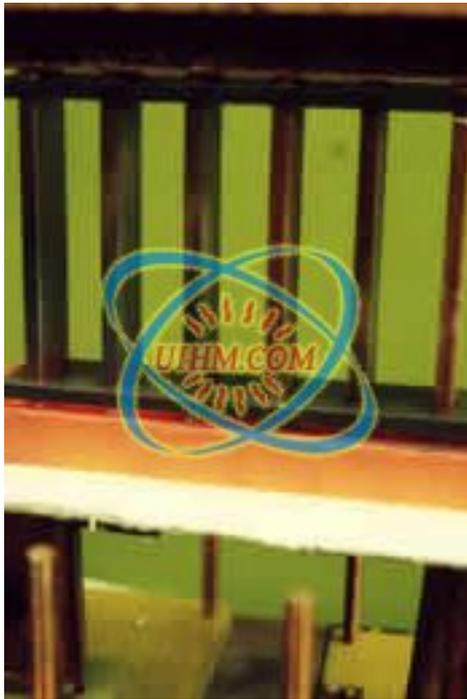
When laying the finished stator windings in the slots tires is inevitably deformed, thereby reducing the quality and reliability of motors. Soldering copper bars stator windings of DC motors using induction heating is free of these shortcomings gas heating.

Plants for soldering consist of a transistor oscillator TGI capacity of 12, 40, 60, 100,

160 kW, the heating unit with an inductor and a snap.

Form inductor heating mode, brazing technology and equipment designed for a specific task.





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