

Induction Heating multi wire bundles of rotor with different shape induction coils

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>

Objective • Heating the ends of multi wires on a starter motor to remove the electrical varnishes

Material Starter motor with multi wire bundles, each wire consists of 3 wires 0.04" (1.0mm) diameter each

Temperature 1202 °F (650 °C)

Frequency • 300 kHz

Equipment • Power of 20kW (UM-20AB-UHF) induction heating system, equipped with a remote workhead containing two 0.5µF capacitors for a total of 0.25 µF.

- An induction heating coil, designed and developed specifically for this application.

Process A six position coil with three turn helical coils at each position is used to simultaneously heat 0.8" (20mm) length at the end of each copper wire bundle for 2~10 seconds to burn off the electrical varnish.

Results Induction heating provides:

- Hands-free heating that involves no operator skill for manufacturing.
- Multi-position coil provides simultaneous heating for quicker production times.
- Complete removal of varnish improves electrical performance of connections.
- Even distribution of heating.

Induction Heating multi wire bundles of rotor with a cambered induction coil

Induction Heating multi wire bundles with a cambered induction coil

Induction Heating 3 wire bundles with a 3 heads induction coil

Induction Heating 3 wire bundles of rotor with a 3 heads induction coil

Induction Heating 3 wire bundles of motor with a 3 heads induction coil





