

Induction Annealing Brass crimping

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 To anneal a small area of an electrical contact for crimping

Material Brass female spade electrical contact with single transverse loop at end
0.5h(12.7mm) long, 0.25h(6.3mm) wide and 0.03h (0.8mm) thick, 1000oF (538oC) heat paint

Temperature 1000oF (538oC)

Frequency 300 kHz

Equipment . UM-30AB-UHF induction heating system, equipped with a remote workhead containing two 1.0uF capacitors for a total of 0.5 uF

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

Process A one turn hairpin coil is used to heat the electrical contact to 1000oF (538oC) in 1.5 seconds. The contacts are in strips at 0.75h (19mm) centers and will run continuously at a rate of 50f (15.24m) per minute.

Results/Benefits Induction heating provides:

- . Hands-free heating that involves no operator skill for manufacturing
- . Pinpoint accuracy
- . Consistent results

Electrical contact with 1000°F (538°C) temperature paint

Induction Heating is so precise that only the very end is heated to the desired temperature and melts the 1000°F (538°C) temperature paint

