

Induction Annealing steel tubes

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 heat steel tubes to 2000 °F (1093 °C) in an inert atmosphere

Material 0.1" (2.54mm) diameter stainless steel tube

Temperature 2000 °F

Frequency 333 kHz

Equipment •

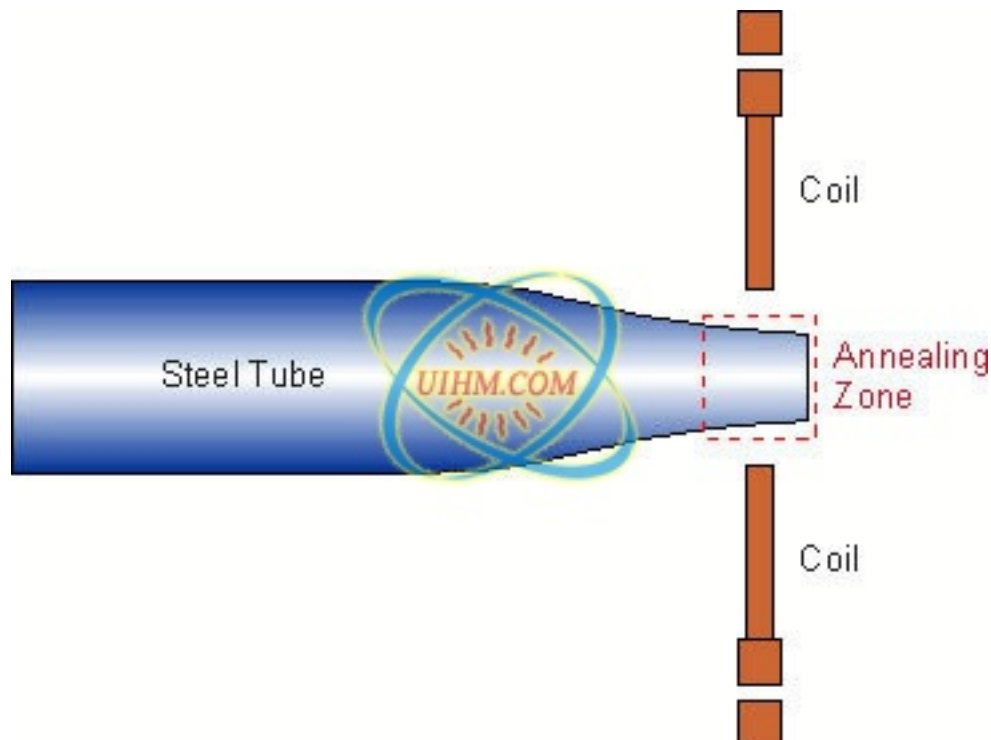
10 kW induction heating system, equipped with a remote workhead containing one 1.0µF capacitor.

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

Process A two turn concentrator coil is used to heat the stainless steel tube. The annealing process takes place in an inert atmosphere to prevent oxidation. The stainless steel tube is placed in the inert atmosphere and heats to 2000 °F (1093 °C) in 15 seconds to achieve the desired characteristics.

Results/Benefits Induction heating provides:

- Fast, controllable process
- Heat very small areas within precise production tolerances
- Hands-free heating that involves no operator skill for manufacturing
- Even distribution of heating



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