

Induction Annealing aluminum tubing

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 Annealing aluminum fuel tank fill neck to 650 °F (343 °C)

Material Aluminum fill neck 2.5" (63.5mm) diameter, 14" (35.5cm) long

Temperature 650 °F (343 °C)

Frequency 85 kHz

Equipment • 40kW induction heating system, equipped with a remote workhead containing eight 1.0µF capacitors for a total of 2.0µF

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

Process An eight turn helical is used to heat the tube for annealing. To anneal the full length of the tube, the tube is placed in the coil and heated for 30 seconds then rotated and the bottom half is heated for an additional 30. The tube is then bent while hot to prevent cracking.

Results/Benefits Induction heating provides:

- High efficiency, low energy cost
- Fast, controllable and repeatable process
- Prevention of cracks
- Hands-free heating that involves no operator skill for manufacturing.
- Even distribution of heating

annealing-aluminum-tubing

service@uihm.com

United Induction Heating Machine Limited

