

# Induction Heating carbon graphite anodes

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>

Heating carbon graphite anodes Objective Heating carbon graphite anodes to destructively oxidize the parts to process embedded contaminants

Material anodes 2.5 x 2.5 x 4 (63 x 63 x 102) h x w x d in (mm)

Temperature 1900 °F 1000°C

Frequency 54 kHz

Equipment Power of 70kW induction heating system, custom multi-turn helical coil, 4 cap 1.0µF workhead

Process An air purge system is used to provide fresh air (~25 f3/hr) to the part during the heat cycle and to provide a swirling action for maximum contact with the surface of the anode.

The anode is placed inside the induction-heating coil and heated to a temperature of 1000°C. After 2.5 hours, the anode burns to about 0.375 inch diameter piece.

A pyrometer/controller is used to provide constant temperature as the anode reduces in size.

Results/Benefits Induction heating allows this process to be very efficient and controllable Heating carbon graphite anodes

[service@uihm.com](mailto:service@uihm.com)

United Induction Heating Machine Limited

