

Induction Hardening steel screw threads or steel nails

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 Heat steel roofing screw to 1650 °F to harden the threads

Material Steel roofing screws of varying diameters less than 1.25" (31.75mm) diameter, 5" (127mm) long

Temperature: 1650 °F (899 °C)

Frequency: 291 kHz

Equipment

- Power of 6 kW induction heating system, such as UM-05AB-UHF, UM-06AB-UHF, equipped with a remote work head containing two 0.33µF capacitors for a total of 0.66µF
- An induction heating coil designed and developed specifically for this application.

Process A five turn helical coil is used heat the screw threads. The screw is placed in the coil, heat is applied for 8 seconds to achieve a 2" long zone at the required hardness.

Results/Benefits Induction heating provides:

- Very rapid heating, faster production rates, efficient
- Ability to incorporate into existing production lines
- Repeatable, consistent results
- Even distribution of heating

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