

Induction Hardening Steel

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 harden various size ends of hand held marking stamps. The area to be hardened is 3/4" (19mm) up the shank.

Material Steel stamps 1/4" (6.3mm), 3/8" (9.5mm), 1/2" (12.7mm) and 5/8" (15.8mm) square

Temperature 1550 °F (843 °C)

Frequency 99 kHz

Equipment • Power of 45kW 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 A two turn channel coil is used to cover the range of steel stamps being heated. The 5/8" steel stamp is heated for 60 seconds to reach 1550 °F (843 °C) and the desired hardness.

Smaller parts will also heat easily.

Results/Benefits Induction heating provides:

- Faster process time and production rates
- Hands-free heating that involves no operator skill for manufacturing
- Controlled precise application of heat

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