

Induction Forging Steel Horse Shoes

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
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Objective To heat a strip of 1025 steel to 1800 oF prior to a forging process for the production of horse shoes.

Presently, blanks are cut and heated in a gas fired oven and then forged in the press.

With an induction coil in place, the steel would be fed continuously from a roll through the induction coil and into the forging press.

In order to meet the increased production rate, heating of the 13" steel section must occur within 10 seconds.

Material 1025 Steel strip approximately 3/4" wide and 1/4" thick.

Temperature 1800 oF

Frequency 15 KHz

Equipment UM-40AB-MF output solid state induction power supply including a heat station with a total capacitance of 0.5 μ F.

Process UM-40AB-MF output solid state induction power supply was found to efficiently achieve the following results:

- . 1800 oF was reached in 10 seconds.
- . The production rate of 1 part every 5-10 seconds was met.
- . The above results were achieved through the use of a 39 turn helical style work coil measuring 1 1/2" ID and 11 1/2" OAL.

