

# Induction Stainless Steel Hot Forming

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 stainless steel "J" tape to 3000F from room temperature at a rate of 15 feet per minute. The material is to be heated to aid in forming the "J" shape from flat stock.

**Material:** Stainless Steel "J" Tape measuring 0.562" wide, 0.028" thick and continuously fed.

**Temperature:** 3000F      **Frequency:** 52 kHz

**Application:** Power of 35KW output solid state induction power supply along with a fifteen (15) turn rectangular helical coil were found to produce the following result:

3000F was reached on a 6" section within 2 seconds in a static test which translates into over 15 feet per minute.

**Equipment:** Power of 35KW output solid state induction power supply including one (1) remote heat station containing one (1) capacitor with a value of 1.2  $\mu$ F, and a unique fifteen (15) turn oval coil 6" long, 1 1/4" wide and 1" high

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