

Induction Curing Paint

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 heat measuring tape stock at a maximum rate of 600 feet per minute to cure the applied paint. The heating coil is to accommodate the 3/8" wide stock within the customer's current framework. Curing must occur above 400°F at the rate specified.

Material Steel Measuring Tape stock, 3/8" wide on a continuous feed.

Temperature Above 400°F

Frequency 75 kHz

Equipment Power of 45kW output solid state induction power supply with remote heat station housing eight (8) 0.33 μ F capacitors totaling 0.66 μ F, along with a 30" multi turn helical coil designed specifically for this application.

Process The UIHM 20kW output solid state induction power supply along with a unique 30" long multi turn helical coil was found to produce the following results.

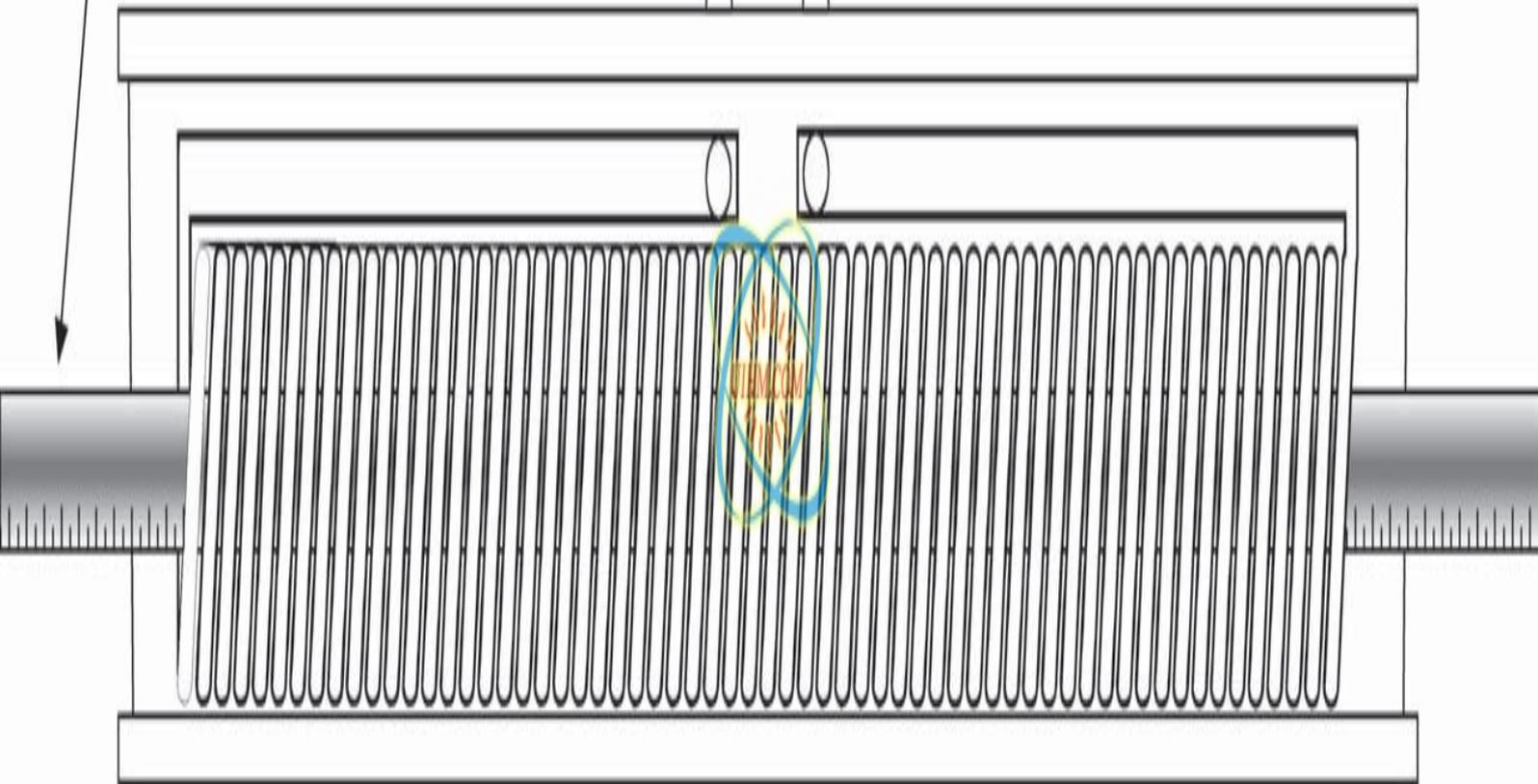
Results • A temperature of 500°F was achieved, at the necessary rate, using the unique 30" multi-turn helical coil which surpasses the customer's requirement of 400°F.

- The helical coil was designed to integrate with the customer's present framework to eliminate any re-fixturing.
- The helical coil allows for the tape to travel internally with absolutely no contact thus maximizing surface quality.

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To Heat Station

Measuring Tape Stack 3/8" Wide
Continuous At 600 ft/min



Approximately 3 Feet