

Induction Coating Aluminum

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 an aluminum molding shape in order to activate an adhesive coating prior to applying the vinyl

Material Aluminum molding folded from a flat sheet measuring 2" wide and 0.03" thick. The final form measures 5/8" by 1"

Temperature 500°F

Frequency 118 kHz

Equipment Power of 60kW power supply including a remote heat station holding three capacitors totaling 0.83 μ F. A

specially designed 14-turn helical coil made from 1/2" flattened copper tube.

Process Processing is to be continuous at a rate over 20 feet per minute with the temperature reaching 500°F. The aluminum is formed from a roll of flat sheet, after which the molding is coated with adhesive and is sent through an induction coil.

Warping of the molding must be kept to an absolute minimum throughout the heating process.

Results Heating to 500°F is accomplished through the use of the unique coil; molding is continuously processed at a rate over 20 feet per minute. Due to the even heating produced through induction, warping of the aluminum molding was kept to a minimum.

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To Heat Station

