

Induction Heat seat springs for powder coat

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>

Heat seat springs for powder coat Objective Heat the steel spring assemblies of automotive seats to powder coat

Material · Steel wire springs ~24" (61 cm) long, 1/8 " (3.175mm) diameter cross section

Temperature 500 °F (250 °C)

Frequency 57 kHz

Equipment Power of 70 kW, induction heating system, equipped with a remote heat station containing four 1.0 mF capacitors for a total of 1.0 mF

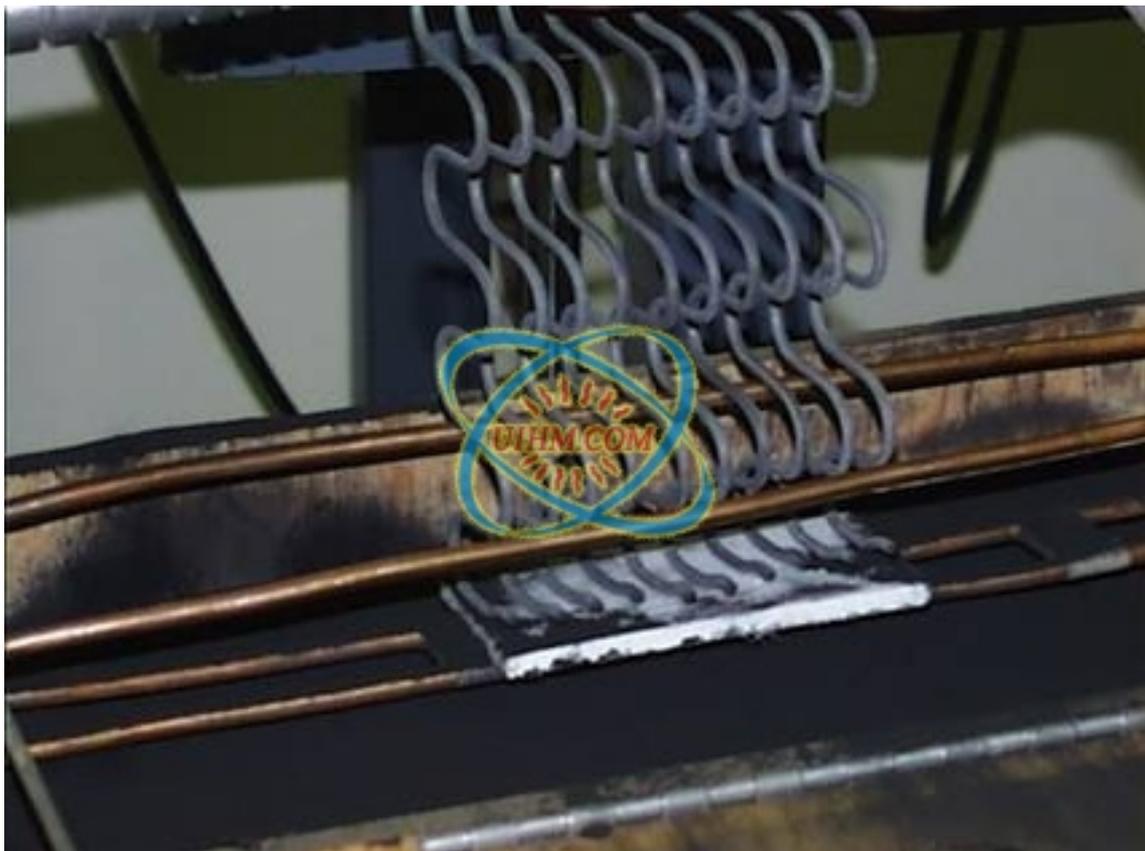
An induction heating coil designed and developed specifically for this application

Process A multi-turn helical coil is wound in a special cross pattern to heat the bottom 1.5 turns of the steel to be coated. This coil efficiency heats the special geometry of the springs. The springs are heated for 10-15 seconds and then soak for another 10-15 seconds before being dipped in the UIHM powder bath. This insures good even flow of the UIHM.

Results/Benefits · Even heating of the spring before dipping provides uniform flow and provides consistent thickness of the nylon coating

· Higher quality end product vs. using an open flame convection furnace. Ovens are sensitive to ambient

temperature and humidity variations and tend to produce uneven results. Heat seat springs for powder coat



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