

Induction Heating Light Bulbs

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 two 0.5" getters to a red glow inside a light bulb in order to fire the getters within 8 seconds. Presently the bulbs are lowered onto an eight station turnstile with an index time of 8 seconds.

Material Metal Halide Lamp containing two 0.5" diameter getters of unknown composition.

Temperature 1300°F to 1500°F

Frequency 350 kHz

Equipment Power of 6 kW solid state induction power supply including one remote heat station containing one (1) capacitor totaling 0.66 μ F, and a unique coil comprised of four (4) parallel two (2) turn coils.

Process By using the UIHM 5 kW solid state induction power supply the following results were achieved:

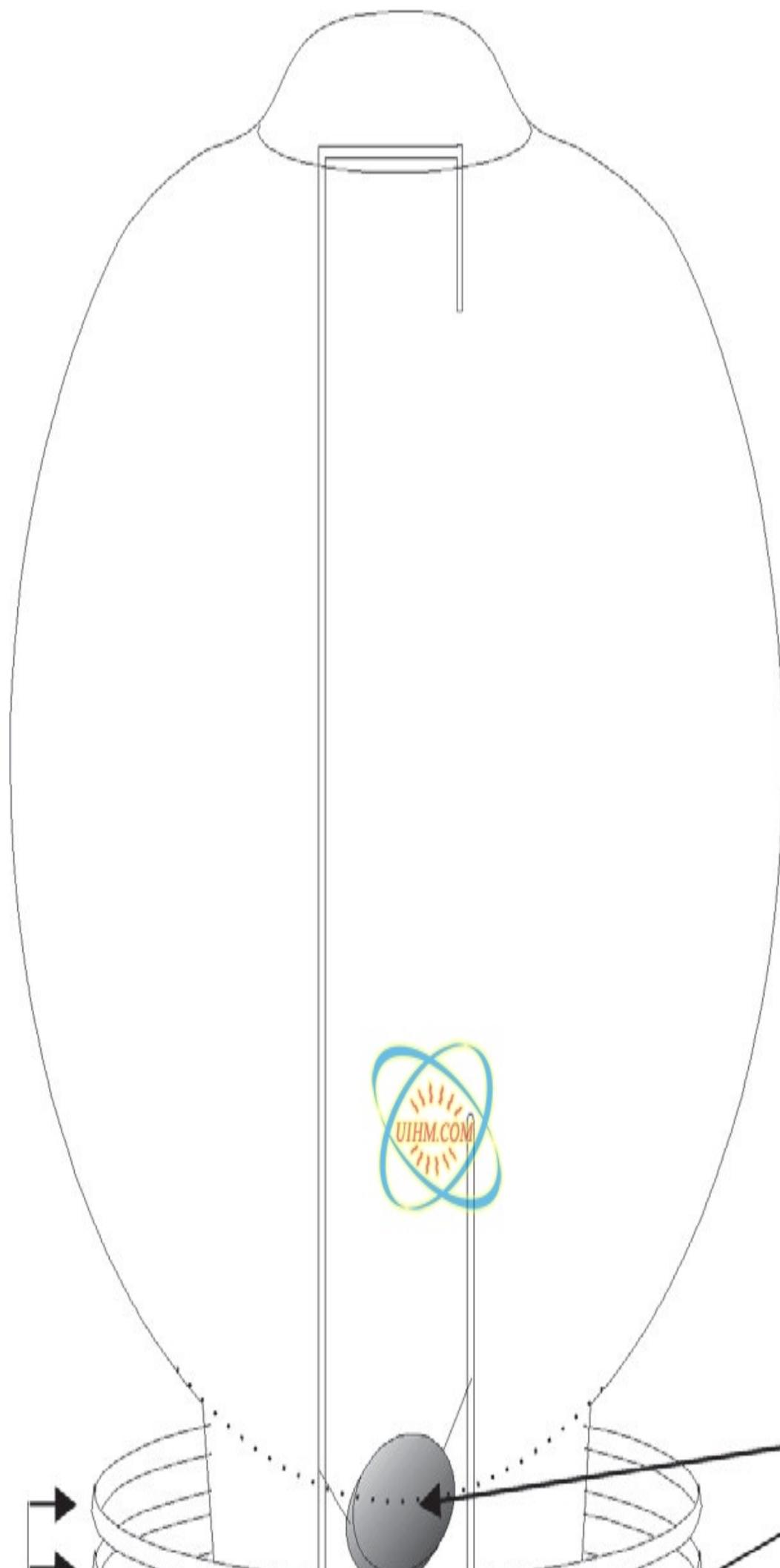
Results • Both getters were fired within 2.5 seconds through the use of a unique helical coil comprising of four (4) parallel two (2) turn coils and the 4-20 mA fast ramp input.

- The 2.5 second firing cycle allows for the coil to be move around the part and away within the indexing time of the turnstile table.

service@uihm.com

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Approximately 7.5"



Two 1/2"
Diameter
Getter
Disk