

Induction Shrink fit steel ring

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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Shrink fit steel ring Objective Heating a steel band to 1000 °F (538 °C) and inserting a carbon graphite ring in the center of the steel band

Material 4340 steel ring 8" (20.3cm) OD x 7.75" (19.7cm) ID, .895" (22.7mm) thick, carbon graphite ring insert

Temperature 1000 °F (538 °C)

Frequency 32 kHz

Equipment • Power of 45 kW induction heating system, equipped with a remote workhead containing eight capacitors.

- An induction heating coil designed and developed specifically for this application. Process A four turn, two over two helical coil is used for heating the steel ring. Power is applied for 14 seconds to reach the 1000°F (538 °C), the carbon graphite ring is inserted and the assembly is allowed to cool creating a strong joint between the two pieces.

Results/Benefits Induction heating provides:

- A highly effective joint
- Accurate & repeatable heat
- Precise control of cycle times
- Uniform and repeatable results
- Hands-free heating that involves no operator skill for manufacturing Shrink fit steel ring

service@uihm.com

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