

# Induction Sintering copper powder

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>

Sintering copper powder      Objective Sintering copper powder to a stainless steel shaft

Material Steel shaft & shell assembly, approx 2" (50.8mm) diameter, 2" (50.8mm) tall, copper powder

Temperature 1600 °F (871 °C)

Frequency 54 kHz

Equipment • Power of 45kW induction heating system, equipped with a remote workhead containing eight 1.0 µF capacitors for a total of 8.0 µF.

- An induction heating coil designed and developed specifically for this application. Process A four-turn helical coil is used to heat the assembly for five minutes. This provides slow, even heat for good penetration through the shell into the powder.

Results/Benefits Induction heating provides:

- Even heat through the shell to sinter the powder.
- A method that is easily integrated into an automated production line. The design may be adapted to accommodate the indexed heating of several assemblies at the same time.
- Hand- free operation that involves no operator skill for manufacturing.

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