## Induction Melting lead ingots

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

Melting lead ingots Objective Melting 30 lb(13.6 kg) & 60 lb(27.2 kg) lead ingots to form

battery posts & connectors

Material 30 lb(13.6 kg) & 60 lb(27.2 kg) lead ingots and 5" (12.7cm) ID

Zircar Ceramic Alumina tube

Temperature 620 °F

Frequency 10 kHz

Equipment • Power of 90 kW induction heating system, equipped with a remote workhead containing three  $26\mu F$  capacitors for a total of  $80\mu F$ 

• An induction heating coil designed and developed specifically for this application. Process A five turn helical coil is used for this application. Lead ingots are placed inside the ceramic tube which is inside the coil. Different size ingots are melted at specified power, voltage and frequencies, see table below. As the lead melts and flows out of the tube the coil coupling decreases, a constant feed of lead is required for a consistent flow and coil coupling.melting leadWeightPower (kW)VoltageFrequency (kHz)Time (Secs)60 lb26375930030 lb455009980Results/Benefits Induction heating provides:

- Faster startup/shutdown time saves energy
- Cleaner process than furnace melting
- Safer and more cost effective
- Hands-free heating that involves no operator skill for manufacturing
- Even distribution of heating

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