

Induction Melting gold with UM Induction Heater

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>

Overview

Melting metals with solid state RF induction heating is usually accomplished by heating the metal in a crucible made from a non-conductive refractory material. The charge of metal within the crucible is melted down to liquid form.

This process is commonly used to produce high quality steels and nonferrous alloys for casting operations. The liquified metal is poured into a cavity having the desired shape. The metal solidifies with a minimum of shrinkage, after which the mold is removed to reveal a finished, machinable product

Using Induction

Modern induction

heating provides reliable, repeatable, non-contact and energy-efficient heat in a minimal amount of time. Induction produces circular eddy currents within the molten mass, creating a stirring action which results in a very uniform product. Induction heating provides fast, controllable temperature ramp, allowing for consistent quality results. Both ferrous and non-ferrous alloys can be melted in induction furnaces. The flexibility and cleanliness of induction melting cannot be duplicated by conventional steel mill and foundry methods.

Typical induction furnaces for melting

range from 1 to 20kW, depending on the metal and application requirements.

