

Difference between UHF, HF, RF and MF induction heaters

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>

Type

UHF(Ultra-high Frequency)

HF(High Frequency)

RF(Radio Frequency)

MF(Medium Frequency)

Frequency

≥ 200 KHz

30KHz~150KHz

20KHz~80KHz

5KHz~20KHz

Based

IGBT or MOSFET or SiC

IGBT

IGBT

IGBT or SCR

Cooled Type

Water

Water

Water or Air

Water or Air

Application Description

Ultra-high frequency induction heaters are often used for quenching or hardening work, higher output frequency will bring thinner hardening depth and faster heating speed (some applications need 0.1mm~2mm hardening depth, then only ultra-high frequency machines can satisfy these works).

High frequency induction heaters are often used for brazing, jointing, normal quenching or small forging work.

Radio frequency induction heaters are often used for hardening, brazing, welding, normal quenching, forging and forging work.

Medium frequency induction heaters are often used for forging or melting or big depth quenching work.

Samples







