

Induction Bonding plastic handle to knife

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>

Bonding plastic handle to knife Objective Bonding handle of a stainless steel surgical knife into a plastic handle

Material Plastic tool handle, 0.125" (3.18mm) diameter steel knife

Temperature 450 °F (232 °C)

Frequency 390 kHz

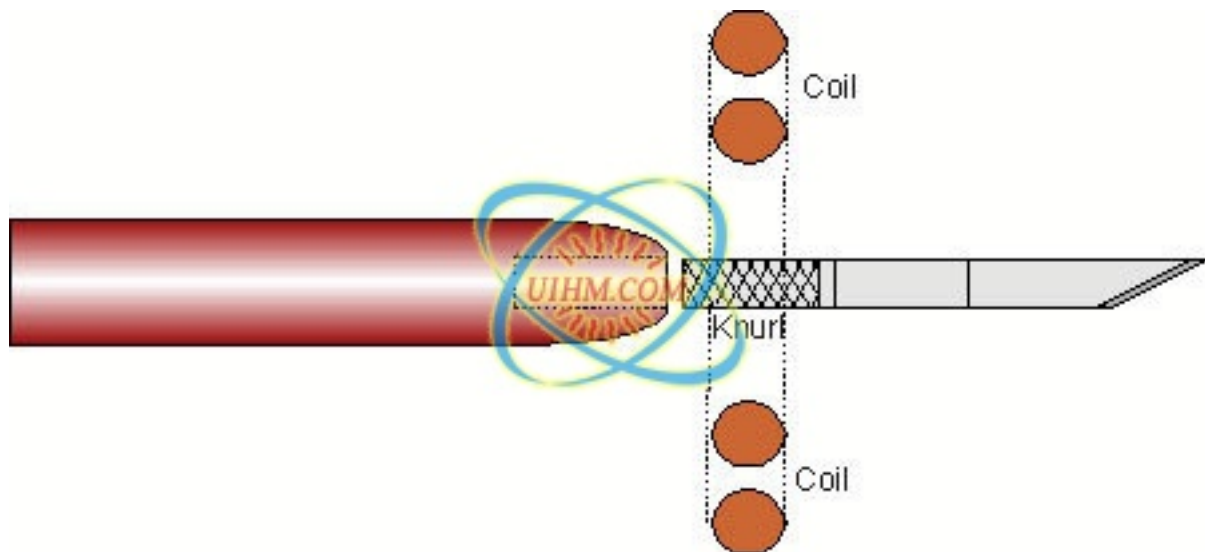
Equipment • Power of 6 kW induction heating system, equipped with a remote workhead containing one 0.66µF capacitor.

• An induction heating coil designed and developed specifically for this application. Process A four turn split helical coil is used for this application. Power is applied to the steel knife for 2.0 seconds to reach 450 °F (232 °C). The steel knife is then inserted into the plastic handle to create a solid bond.

Results/Benefits Induction heating provides:

- Fast, accurate, repeatable heat
- Able to heat very small areas within precise production tolerances
- Hands-free heating that involves no operator skill for manufacturing
- Even distribution of heating

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