

Induction Shrink fitting impeller blades to shaft

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
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Shrink fitting impeller blades to shaft Objective Heat aluminum impeller blades to 200 °F (93 °C) and shrink fit onto a shaft.

Material Aluminum impeller blades with a .28" (7.109mm) bore, aluminum shaft
Temperature 200 °F (93 °C)

Frequency 255 kHz

Equipment • Power of 6 kW induction heating system, equipped with a remote workhead containing one 1.0µF capacitor.

- An induction heating coil designed and developed specifically for this application. Process A split two turn helical coil is used to evenly heat the opening on the impeller blade. The impeller blade is heated for 20 seconds to reach the 200 °F (93 °C). The impeller blades are then removed from the coil & slipped over the shaft to complete the shrink fitting application.

Results/Benefits Induction heating provides:

- Repeatable results
 - Reduced cycle time, lower consumables cost
 - Even distribution of heating
- Shrink fitting impeller blades to shaft

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