

Induction Heating fan blades for welding

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>

Heating fan blades for welding Objective To uniformly heat jet engine turbine fan blades to 1800°F (982.2°C) within five minutes for a welding application

Material Jet engine turbine fan blades with 2"(50.8mm) length tip

Temperature 1800°F (982.2°C)

Frequency 216 kHz

Equipment • Power of 6kW induction heating system equipped with a remote workhead.

- An induction heating coil designed and developed specifically for this application. Process A four-turn helical coil with a kidney shape is used to provide uniform heat for this application. The turbine blade is placed inside the coil and power is applied for 5 minutes until the top 0.25" (6.35mm) of the blade reaches 1800°F (982.2°C). An optical pyrometer is used to measure the temperature of the part.

Results/Benefits Induction heating provides:

- Even and consistent distribution of heat
 - Faster production rate
 - Reduces product waste through rapid heat-up and cool down cycles
- Heating fan blades for welding

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