

Induction Preheating Titanium Rods

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>

Objective To heat titanium rod blanks prior to forging into a turbine blade.

Material Titanium rod blanks 0.591" (15.01mm) OD by 11.8" (299.7mm) long

Temperature 2030°F (1110°C)

Frequency 64 kHz

Equipment • Power of 45kW induction heating system equipped with a remote workhead comprised of eight (8) capacitors totaling 0.66 μF.

• An induction heating coil designed and developed specifically for this application.

Process A nineteen turn helical coil is used to heat the titanium rod blanks to 2030°F (1110°C) in 25 seconds.

Results/Benefits Induction heating provides:

- Increased production rates
- Repeatable, reliable & consistent heat without flame.
- Hands free heating that involves no operator skill for manufacturing

