

# Induction Annealing steel 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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Objective Heating a steel rod to 1200°F (649°C) for an annealing, stress relief application

Material 1.062" (26.97mm) dia type T-410 stainless steel bar 6' (1.82m) long & 1.25" (31.75mm) dia T-416 stainless steel bar 6' (1.82m) long

Temperature 1200°F (649°C)

Frequency 106 kHz

Equipment • 70kW induction heating system, equipped with a remote workhead containing eight 1.0 µF capacitors for a total of 8.0 µF

- An induction heating coil designed and developed specifically for this application. Process A two position 8 turn helical parallel coil is used to heat the stainless steel rod for 30 seconds to reach the requested 1200°F (649°C).

Results/Benefits Induction heating benefits:

- Process currently done in batch furnaces, induction heating allows process to be done in-line saving time and energy.
- No rotation of part needed
- Flameless process

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