

# Induction Annealing Motor 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  
<http://www.uihm.com>

**Objective** Annealing the end of a steel hydraulic motor shaft prior to machining

**Material** .75" (19mm) diameter steel rod, 6" (152.4mm) long with a keyway at the end

**Temperature** 1350 °F (732 °C)

**Frequency** 359 kHz

**Equipment** • UM-06A-UHF induction heating system, equipped with a remote workhead containing one 1.0 µF capacitor

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

Process A three turn helical coil is used for annealing the motor shaft.

The end of the motor shaft is placed in the coil and power is applied for 20 seconds to reach 1350 °F (732 °C) and turn the steel red hot

**Results/Benefits** Induction heating provides:

- High efficiency, low energy cost
- Precise and controllable placement of heat to anneal only the required area
- Faster production process
- Consistent results

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