

# Induction Hardening Steel Cam

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 harden the perimeter of ¼" thick steel cam assemblies

**Material** ¼" thick steel cam assemblies of varying geometries

**Temperature** 1650 °F (900 °C)

**Frequency** 177 kHz

**Equipment** Power of 20 kW, induction heating system, equipped with a remote heat station containing one 1.0µF capacitor and an induction heating coil designed and developed specifically for this application

**Process** A two-turn helical coil is used to heat the cams. The heat time varies from 120-150 seconds. After heating, the parts are quenched in water.

**Results/Benefits** Hardening the cam outer surfaces with induction results in:

- uniform heating for uniform results
- one coil can be used for many geometries
- consistent results from piece to piece

[service@uihm.com](mailto:service@uihm.com)

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