

# Induction Annealing Steel Wire

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** To heat 3" (76.2mm) from the end of the wire on a woven wire cloth 60" (1.52m) long. This prepares the wire mesh for bending in a press brake.

**Material** Woven wire cloth (steel) made of 1/2" (12.7) diameter wire, 60" (1.52m) long. Wires are 1.5" (38.1) apart

Temperature 1400 °F (760 °C)

Frequency 9.1 kHz

**Equipment** • 400kW induction heating system, equipped with a remote workhead containing three 25µF capacitors for a total of 75µF

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

**Process** A two turn oval coil is used to heat the woven wire. The woven wire is placed in the coil and heated for 15 seconds to soften a 60" (1.52m) length of the wire 3" (76.2mm) deep. The woven wire is then placed in a press brake for the bending process.

**Results/Benefits** Induction heating provides:

- Faster production process
- High efficiency, low energy costs compared to gas furnace
- Fast, controllable process
- Hands-free heating that involves no operator skill for manufacturing woven-wire-annealing

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