

# Induction Soldering copper wires

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>

**Soldering copper wires Objective Soldering two copper wires to pre-installed turrets on a copper buss bar**

**Material Solder dipped copper/nickel buss bar, 2 tinned stranded copper wires, brazing stick**

**Temperature 446 °F (230 °C)**

**Frequency 230 kHz**

**Equipment** • Power of 3.2 kW induction heating system, equipped with a remote workhead containing one 1.2µF capacitor.

- An induction heating coil designed and developed specifically for this application. Process A four turn split helical coil is used to solder the buss bar assembly. The 2 copper wires are applied to the turrets and power is applied for 30 seconds. The brazing stick is fed by hand to the heated parts and the braze flows evenly, creating the joint.

**Results/Benefits Induction heating provides:**

- Reduced solder time
- Even distribution of heating
- Joint to joint consistency Soldering copper wires to copper bar

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