



# Induction Brazing System



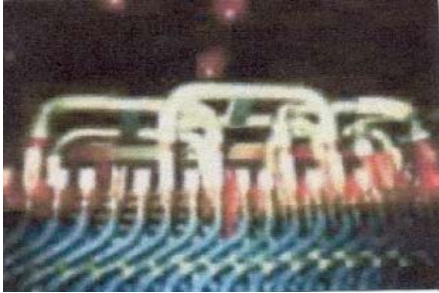
Induction brazing and soldering has become the preferred method of joining many electrical connections in the power industry. Utilizing induction heating, the parts can be heated faster than any other method. This reduces the possibility of damaging insulation in proximity of the joint and reduces possible "Corona" effect damage. Injury by fire or combustion by products to personnel is virtually eliminated.

## Design Features

- Complete Solid State System—Reliable, high power factor, transistor based inverter, fully tested and 100% duty cycle rated.
- Automatic Frequency Matching— The inverter frequency will automatically match to the load resonant frequency.
- Electronic Circuit Protection—Automatic fast action transistor shutdown for system protection. No special fuses required.
- Soft Start Front End—No excessive power surge when the primary power is applied.
- Electronic Control—A single electronic circuit board, common to all power levels and frequencies, controls the inverter functions.
- Regulated Power Output—Constant power regulation within  $\pm 5\%$  at a  $\pm 10\%$  input line voltage.
- Conservative Power Rating—Component specifications exceed power requirements. Full power rating output at 100% duty cycle.
- Automatic Limiting—Out of range tuning limits automatically hold the system within safe power ranges.
- Operator Control—Optically isolated full function interface circuit board provided.
- Operator Interface—Front panel LED indicators for limit, fault, and heat on. LCD screen message display for operating condition. Analog meters display power level and load resonant frequency.
- Access Safety Switches—Safety switches on all access doors to prevent or cease operation if doors are not closed.
- Isolated Short/Grounding Detector—For additional safety.
- Product Specifications—Output 100KW 8-25kHz
- DIMENSIONS: 47"h x 47"L x 20"W WEIGHT: 900LBS / 1980 KG

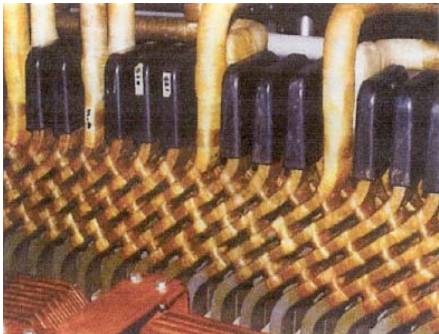
## System Benefits

- Water Cooled System—No open flames or exposed heating elements.
- Fast & Efficient.
- Highly Portable—Can be used virtually everywhere.
- Easily Adaptable for a variety of applications.
- Equipment & Technology are proven and reliable.



**Brazed Connections**

Mannings induction brazing equipment was developed after many years of exhaustive research and trials to reach current technology. After several years of testing, Mannings introduces systems for shop or field use, which have the reliability and capability of brazing connections, in small transformers, to the largest copper connector of any generator.



Accurate control of the brazing process is achieved by the use of a remote foot pedal. This allows the operator to instantly control the amount of heat without ever taking his eyes off the process.

The lightweight design of Mannings handheld transformer makes the task of brazing fast, simple and comfortable for the operator.



**Mannings USA**

Since 1989, Mannings USA has established an international reputation for manufacturing well-designed, functional and reliable products. Along with our field services division, Mannings USA has become a leader in the power generation industries by providing quality products and services worldwide. Mannings integrity coupled with customer satisfaction is the cornerstone upon which this successful business has been built.

For more information on the reliable induction brazing equipment or other Mannings products and services, please give us a call today.

**Nationwide Locations**

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