

Pipe End Heating

Induction Heating

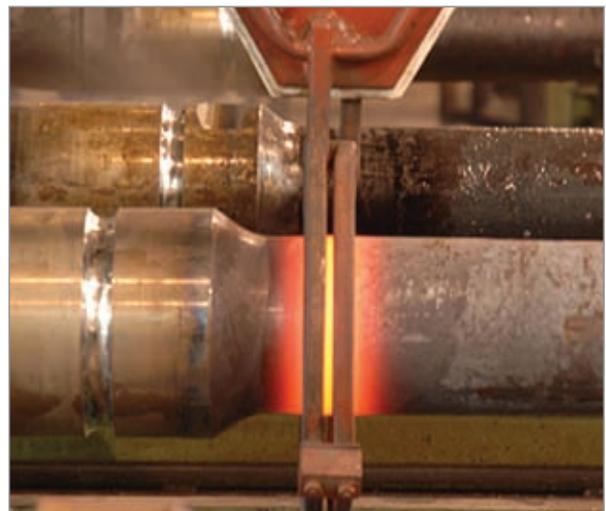
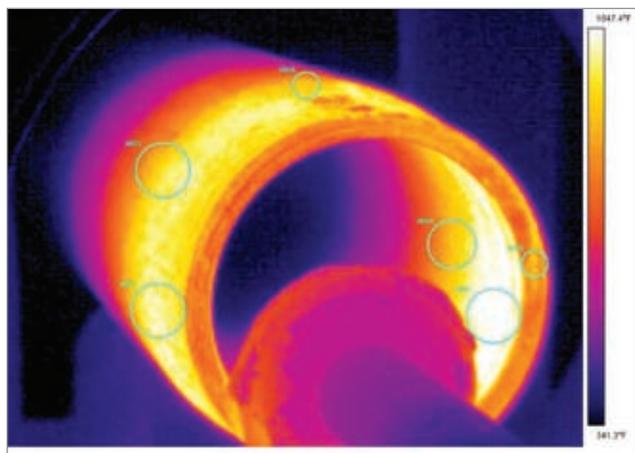
The precessing of pipe ends includes drilling, threading, welding and other types of mechanical deformation which may require heat treatment to harden the metal or to eliminate residual stresses. In addition, tube ends are often heated and then upset (formed) to increase or decrease the diameter or wall thickness to allow pipes to be joined end-to-end.

Pillar Induction pipe-end heating systems are designed for a variety of these applications including:

- Preheat for welding & swaging
- Friction weld and swage
- Stress Relieving
- Tempering
- Austenitizing
- Annealing
- Normalizing
- Coating curing and removal
- Upsetting

Features Include:

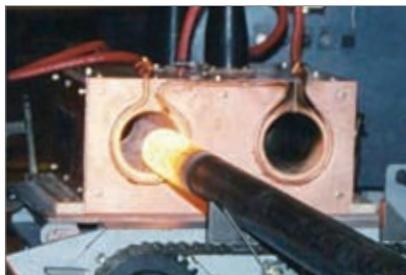
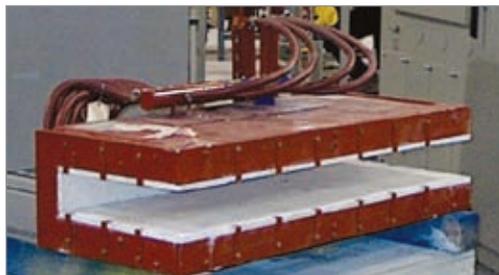
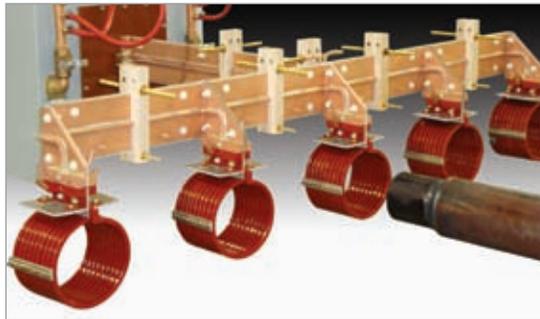
- Single or multi-turn solenoid coils
- SCR or IGBT power supplies available from 200Hz to 3000Hz depending on the process and pipe size.
- Infrared temperature monitoring systems
- Advanced temperature process monitoring and chart recording
- Process analysis using 2D and 3D modeling
- Infrared camera analysis in the field or in our lab
- Pipe or coil positioning equipment as required
- Cooling systems



Pipe End Heating

Coil Design

- Coil build—new and retrofit
- Single or multi-turn solenoid coils
- Channel coils
- Cast windings
- High temperature liners
- Open construction



MK8 – SCR Power Supply

Power Range: 50kW – 750kW **Frequency:** 200Hz – 3000Hz

The MK8 is a voltage source inverter with a parallel-tuned circuit. This range of power supply is designed as an economic and reliable solution for applications up to 750kW. The parallel-tuned circuit keeps the high currents away from the inverter thyristors (SCR). The lower currents flowing into the SCR's results in low power loss and high efficiency.

Control is by a combination of rectifier voltage control at lower power levels and inverter swept frequency control at higher power levels. This provides very controllable starting and excellent fault protection, along with constant output power over the entire heating cycle.

Accurate and reliable control is achieved in extreme ambient conditions without the need for additional cooling.

MK11 – IGBT Power Supply

Power Range: 100kW – 600kW **Frequency:** 1kHz – 50kHz

The MK11 is an energy efficient, voltage source inverter with a parallel-tuned technology. This IGBT power supply offers a wide tuning range and is available in both local and remote heat station configurations which simplifies integration into new installations or retrofitting existing systems with energy-efficient. Selectable output regulation modes are voltage, kW, or current, at any rated output.



MK8



MK11

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