



On-Site Heat Treating Products and Services

Heat Treating Equipment/Consumables

Mannings' Heat Treating Equipment has proven itself reliable on projects demanding heat uniformity, accurate control, dependability, and safety. Mannings' equipment is designed for manual, programmable, or remote operation. Economical to use and simple to operate, it is robust in construction and easily capable of heavy on-site work loads.



Some of our equipment includes:

- Heat Treatment Transformers / Power Sources in a wide range of ratings.
- Control Consoles including manual, semi & fully automatic control.
- State-of-the-art Temperature Recording Equipment.
- A full line of Ancillary Heat Treatment Equipment.

Combustion Induction and Resistance Systems

- Stock/Custom/Prototype
- Turbine Warming Systems
- Heat Treatment Consoles
- Recording Instrumentation
- Thermocouple Wire & Probes
- Cable and Connectors
- Temperature Controllers
- Induction Machines & Coils
- Heating Elements
- Non-Respirable Insulation
- Furnaces and Ovens
- Insulation and Coverings
- Portable Combustion Units
- Calibration Instrumentation

Heat Treating Services

Mannings offers the total package for Heat Treatment Services: the most economical... the most reliable... the most versatile. Mannings is a service company committed to offering the widest range of Heat Treating applications, guaranteeing our clients the one item they require most – service.

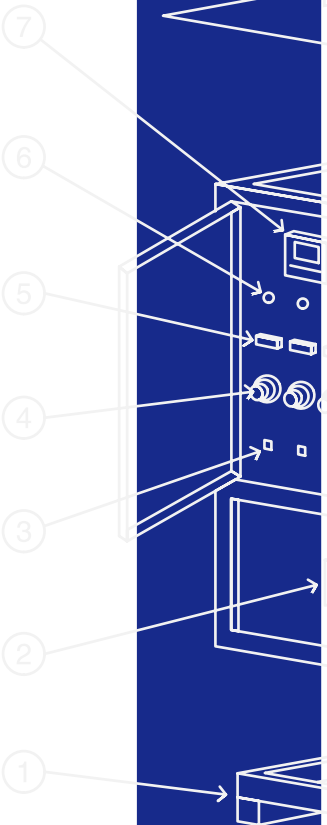
- Induction Bolt Heating
- Stress Relieving (P.W.H.T.)
- Weld Preheat
- Refractory Curing
- Plasite/Glass Curing
- Induction Brazing
- Thermal Expansions
- Coupling Removals
- Calibrations to N.I.S.T.
- Temporary Heat
- Engineering
- Research and Development
- Generator and Chiller Rentals
- Supervisory Control Systems
- Remote Data Acquisition

Since our inception, Mannings USA has earned an international reputation for reliability, high quality and sensibly priced services. We continually update our processes, always looking for better ways to improve performance.

Every industry has specific heating needs and requirements. Mannings' experienced staff of technicians and engineers works together, assuring reliable performance. Through teamwork and expertise, we provide superior capabilities and competence, assuring that your specific requirements are met.

Our experience and know-how has provided the following industries with excellent heating services according to their needs:

- Power Generation
- Petroleum Refineries
- Chemical Refineries
- Steel Manufacturing
- Gas Transmission
- Paper Mills
- Fabrication/Erection Industries
- Ship Building and Repair



Field Services

Mannings USA has an extensive history of on-site work experience. This experience in dealing with the activities associated with critical path contracts gives our technical staff the ability to work hand in hand with plant, crafts, and other contractor personnel. We offer consultation on both conventional and high technology applications.



Quality Assurance Program

Mannings USA is committed to the implementation and application of a viable Quality Assurance Program, covering any and all aspects of Quality Control. Mannings' Heat Treatment Services are designed to comply with the requirements of the specific governing code. Some of these include:

- ASME Section I Power Boilers.
- ASME Section III Rules for Construction of Nuclear Power Plant Components.
- ASME Section VIII, Div. I and II, Pressure Vessels.
- ASME B31.1 Power Piping.
- ASME B31.3 Chemical Plant & Petroleum Refinery Piping.
- MIL-STD-45662A Calibration System Requirements.
- ANSI/AWS D10.10-99 Recommended Practices for Local Heating of Welds in Piping and Tubing.



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 On-Site Heat Treatment or other Mannings products and services, please give us a call today.

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