

Ceramic Pot Salt Bath Furnaces

With Submerged Electrodes



With Ajax HCSE-HHSE ceramic pot salt bath furnaces, your processed steel parts are protected with proper rectification from oxidation, pitting, and decarburization. There's no need for atmospheres, eliminating the need for gas generators or vacuum pumps. The load is further protected by a thin film of salt when being transferred to quench.

Advantages of the Ajax Design

Ajax HCSE-HHSE ceramic pot salt bath furnaces with submerged electrodes are ideal for austenitizing, neutral hardening, annealing of stainless steels and heat resistant alloys. The design enables processing of loads up to 4 to 6 times faster than competitive furnaces. Long life is ensured with durable ceramic tile pot construction. Submerged water-cooled electrodes are embedded below the salt/air interface, reducing oxidation and corrosion. Simple, straightforward operation produces consistent, excellent results at low cost.

- 6" thick super-duty firebrick pot lasts for years.
- Ideally suited for high production use.
- Large cross-section electrodes fabricated from heat-resistant alloys for long life.
- Additional energy savings with the use of manual or automatic furnace covers.
- "Electrodynamic" circulation provides uniform temperature within +/- 10°F in the working area of the bath.
- Formation of a "cocoon" of solid salt around the workpiece acts as a preheat preventing thermal shock that reduces distortion and cracking, minimizing rejects and rework.

Type HCSE

Insulation for use to 1650° F.

Typical applications: austenitizing, neutral hardening, high-speed steel preheat, and annealing.

Type HHSE

Insulation for use to 2350° F.

Typical applications: high-speed steel high heat and conditioning of parts prior to brazing of carbide inserts.



Ajax HCSE-HHSE ceramic pot furnaces share the following features:

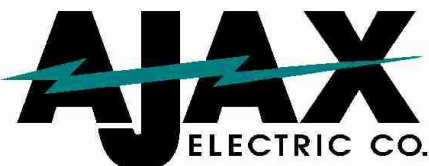
- Automatic heating and temperature control systems.
- Complete outer furnace shell (casing) for safety and strength.
- Manual or automatic furnace covers available.
- Air cooled transformer with external switch to easily change secondary voltages.
- Prewired cubicle with interlocking circuit breaker disconnect for operator safety.
- The many options available include the Ajax Unihoist™ system which may be easily programmed for many material handling functions.



About Ajax Electric Company

Ajax will custom-design a ceramic pot salt bath furnace to practically any size or configuration to meet your processing requirements. With nearly three quarters of a century of experience in metals processing, Ajax Electric is uniquely qualified to help you select the best equipment for your application.

Because we design and build our equipment in-house, we are able to provide and ensure comprehensive quality control at each phase of the manufacturing process. Strong aftermarket support is provided by our service and replacement parts departments with on-site service, training and "turnkey" installations also available.



Ajax Electric Co.

60 Tomlinson Road
Huntingdon Valley, PA 19006
Toll Free: (800) 516-9916
Tel: (215) 947-8500
Fax: (215) 947-6757
Email: sales@ajaxelectric.com
www.ajaxelectric.com

Need Help?

Call us toll-free at (800) 516-9916 to speak to one of our applications engineers. We'll be happy to assist you with any technical questions you may have concerning salt bath furnaces.