

ANNEALING

Heating for:

- Annealing
- Bending and upsetting
- Casing
- Extrusion
- Ferrous and nonferrous
- Inertia welding
- Line pipe
- Pipe coating
- Portable applications
- Preheating
- Quench and temper
- Seamless
- Stretch reducing
- Tubing



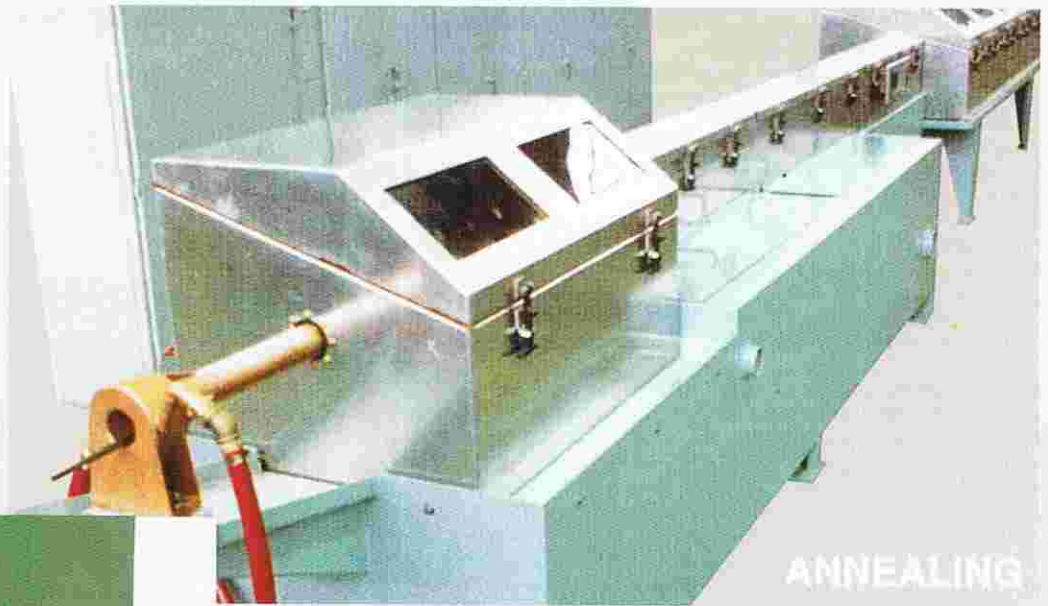
Ajax **TECCO**
Magnetothermic

Annealing

Heat where you want it when you want it, from the people who teach the world how to use induction heating.

Heating for:

- Annealing
- Ferrous and nonferrous
- Full body
- Seam weld
- Weld annealing



Small diameter copper tubing processed in an inert nitrogen atmosphere is annealed at the rate of 1000 feet per minute. This Ajax TOCCO Magnethermic tube annealing system operates in line with the entire tube manufacturing process and produces excellent mar-free surface quality.



Inductor designs ranging from 24" to 108" long, supplied by variable frequency converters typically ranging from 400 KW to 1000 KW, heating pipe from 1.5" diameter and up.

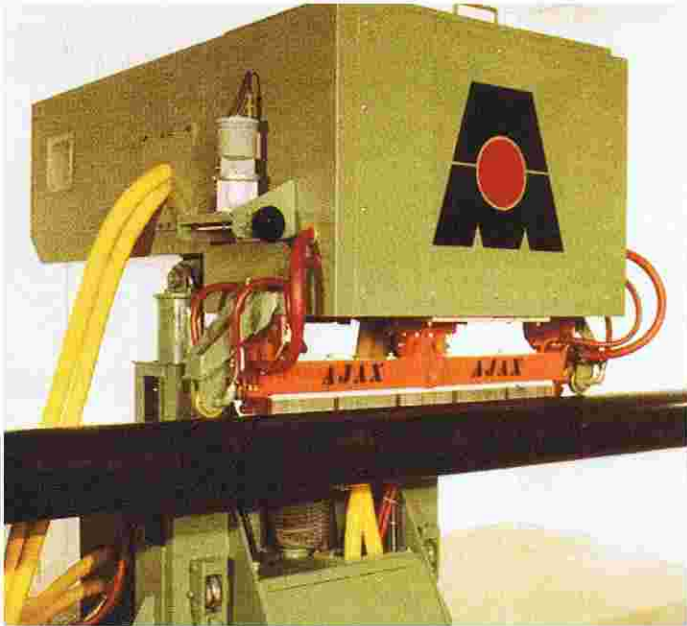


Above illustrates the Ajax TOCCO Magnethermic ruggedly designed bright annealing heating chamber with modular graphite cooling section. Heating stainless steel tubing in diameters from .25" and up at rates to match welding speeds.



The world's most experienced builder of Induction heating for Annealing Tubular products.

Ajax TOCCO Magnethermic is at the forefront in developing induction heating technology for tubular products. With the first Ajax TOCCO Magnethermic installation to anneal the welded seam of ERW pipe in 1957, Ajax TOCCO Magnethermic has been teaching the world how to use induction heating for annealing.



Ajax TOCCO Magnethermic seam weld annealing for ERW pipe easily fits into a production line. It is compact and features easy positioning, positive inductor locating and fast installation into today's pipe mills.

Ajax TOCCO Magnethermic's unique approach to applying induction heating has solved a wide variety of difficult problems. Pipe and tube producers have benefited from Ajax TOCCO Magnethermic's unequalled experience in supplying everything from systems for the solution anneal of stainless steel, weld annealing, coupler heat treating, normalizing tool joints to precise pipe coating.

Ajax TOCCO Magnethermic's technical leadership has helped pipe and tube producers to improve quality, increase production and lower costs to meet tough market demands. Ajax TOCCO Magnethermic is ready to put this experience to work for you. Isn't it time you called the people who know induction heating best? The people who teach the world how to use induction heating . . . Ajax TOCCO Magnethermic.



Portability is the key to weld annealing in the field. Here all the equipment necessary to weld anneal 42" diameter pipe is contained and mounted on a skid for on location use. The inductor is a hydraulically operated split design, which operates as a clam shell to fit precisely over the weld area in the installed pipe line.



Solution anneal heat treatment is used to restore both corrosion resistance and ductility to hot worked tubing. An Ajax TOCCO Magnethermic system provides controlled heating and cooling to dissolve carbides and control grain growth.



Multiple inductors mounted on a common base allow for high kilowatt applications with limited floor space. Guide rolls located at each end of the fixture and between each inductor control the pipe to inductor gap insuring efficient operation.



A Full Service Company Serving the World's Basic Industries

Ajax TOCCO Magnethermic recognizes the need to continually improve technology and discover better ways to utilize the induction process in industry. Our promise is delivering high quality, technically advanced induction equipment, on time with superior performance to meet or exceed each customer's expectations.

To assure continued progress takes commitment and dedication to new and better ideas. Ajax TOCCO Magnethermic is acutely aware that for its customers to succeed they must provide superior products, technical assistance and services that can make them market leaders.

Research & Development – Full time research and development with complete facilities for electronic, mechanical, and ceramic testing.

Design Integrity – Ajax TOCCO Magnethermic's experience with computer control and design enables them to provide advanced systems that specifically meet customer's present and future needs.

New Product Development – Ajax TOCCO Magnethermic continually works to enhance existing technology and discover new and better ways to take advantage of the induction process. In addition to independent research, Ajax TOCCO Magnethermic works closely with their customers to develop prototype programs, do feasibility studies and will often set up to make actual production runs.

Testing – Ajax TOCCO Magnethermic is one of the few induction companies that completely

tests all equipment before its installation; testing for electrical, mechanical and system integrity. It's your assurance of fast start-ups at the lowest cost.

Service – Service engineers are trained and experienced, fully capable of handling the most difficult field problems. They are available 24 hours a day and are never more than a phone call away.

Training – Extensive, thorough and effective training is available to all customers at their facility or in a formal classroom and hands-on training at corporate headquarters in either Warren, Ohio or Boaz, Alabama.

Convenient Repair Centers – Ajax TOCCO Magnethermic maintains a network of repair and service centers strategically located throughout the U.S. and the world. Local access is never more than several hours away.



Warren, Ohio, U.S.A. / Boaz, Alabama, U.S.A. / Cleveland, Ohio U.S.A. / Indianapolis, Indiana, U.S.A. / Longview, Texas, U.S.A. / Madison Heights, Michigan, U.S.A. / Ajax, Canada / Stoney Creek, Canada / Shanghai, China / Birmingham, England / Tokyo, Japan / Queretaro, Mexico / Seoul, Korea / Belgique, Belgium

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