

OIL FIELD

PRODUCTS

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 **Toocco**
Magnethermic

Oil Field Products

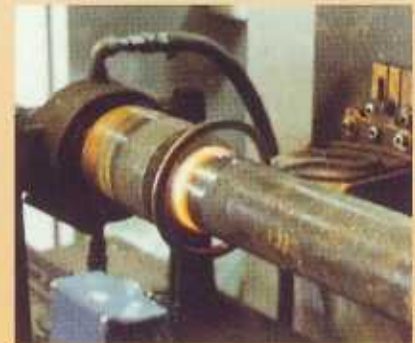
Heat where you want it when you want it, from the people who teach the world how to use induction heating.

Heating for:

- Casing
- Inertia welding
- Line pipe
- Portable applications
- Quench & temper
- Tubing
- Upsetting



Accurate and dependable system controls are critical in the precise heating requirements necessary to satisfy API specifications for casing and tubing. Ajax TOCCO Magnethermic has in-house control engineering staff dedicated to system controls.



Ajax TOCCO Magnethermic has led the way in pioneering induction heating equipment for heat treating inertia welded tool joints. Induction heating provides exact temperature control, precise uniform heating and saves time and energy by heating only the weld zone and not the entire pipe. As a result, fatigue strength is increased and tension impact and yield strength are enhanced.

Ajax TOCCO Magnethermic Induction Heating, the heat behind the source.

It takes energy to discover energy and manufacture quality products to drill deep into the earth, and to build weather-tough, continent-spanning pipelines. Most products used for discovery and delivery require heating processes in their manufacture to achieve strength, durability and uniformity. Oil product manufacturers are acutely aware of their responsibility to ensure high quality and reliability, and look to Ajax TOCCO Magnethermic's heating technology to help insure this quality and reliability.

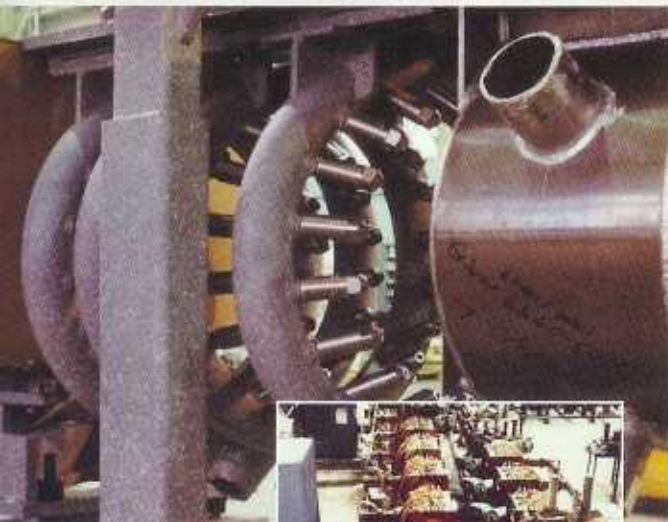


Ajax TOCCO Magnethermic technology pioneered the development of induction heating and maintains a staff of research and process engineers with the technical expertise to continue development of cutting-edge technology. Since the late 1960's, large producers of oil-related pipe and tube products have had the foresight to use Ajax TOCCO Magnethermic induction equipment to heat, quench and temper their ERW products to meet API specifications.

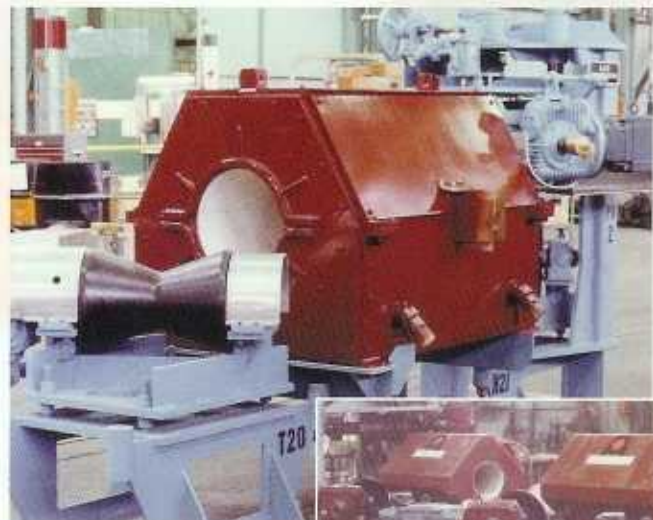
Supplying billet heaters for extruding seamless tubing to developing weld annealing, coupler heat treating and pipe coating equipment capable of maintaining temperatures to within $\pm 5\text{EF}$, the steady application improvements in frequency converters, coil design, quench design and mechanical handling systems are but a few of the benefits Ajax TOCCO Magnethermic has to offer to solve the myriad of difficult problems encountered by oil product manufacturers.

Ajax TOCCO Magnethermic's technical leadership in providing induction heating equipment for oil field products has helped manufacturers improve quality, lower costs and meet tough market demands. 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.

Ajax TOCCO Magnethermic quenching system installed on an austenitizing and temper line for the production of high strength casing and tubing. ERW pipe is quenched to essentially a full martensitic structure then tempered.



Seamless and ERW pipe and casing is hardened and tempered at production rates up to 120 tons per hour.



Ajax TOCCO Magnethermic provides the complete system from load tables to exit conveyors. From the inception of concept to installation and final commissioning of the system, let Ajax TOCCO Magnethermic be your single source supplier.





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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