Meltshops Solutions
EAF Optimization Technology

Meltshops Solutions

We are the leaders in Electric Arc Furnace Optimization Technology. We offer flexible and friendly modular control systems designed to make your EAF run more efficiently and help your operator obtain the best performance in your furnaces.

▶ SmartFurnace™
▶ Technical Service
▶ Automation Services
▶ MES.AI

The AMI SmartFurnace™ System improves productivity and reduces energy used per ton of steel.

AMI Automation

AMI Automation (formerly AMI GE) is an international automation and control solutions company. Our systems improve productivity and reduce energy used per ton of steel. We combine over 30 years of experience with automation and controls in the steel industry including artificial intelligence to assist our customers with the challenges of implementing and upgrading to new technology solutions.

AMI Automation is a global supplier of technology including hardware, software and service and is supported by the largest technical team in the America's exclusively dedicated to EAF optimization.

Contact AMI today to find out how.

🔍 amiautomation.com   ✉ msales@amiautomation.com   in /amiautomation

We make your *EAF perform better.*

Products

SmartFurnace™

The AMI SmartFurnace™ System improves productivity and reduces energy used per ton of steel. As an Artificial Intelligence Expert system, it dynamically selects the best operating points for electrical and chemical energy input based on the actual heat conditions. Every EAF has a personality and AMI has the tools and the experienced technical people to help you tune your EAF operation. The SmartFurnace™ System utilizes several individual modules to adapt and optimize every aspect of the furnace operation. The open architecture allows the user to customize the operation and enhance the EAF performance.

Technical Service

With the largest technical team in the America's exclusively dedicated to EAF optimization, AMI technical advice and counsel is applicable to the PLC, HMI equipment, training, system and process analysis and diagnostics. Our team has the highly specialized background and experience in Furnace Optimization and Operation.

Automation Services

AMI offers its wide experience and proved technical capacity in the automation of Electric Furnaces, Ladle Furnaces, Continuous Casters and Vacuum Oxygen Degasser/vacuum Tank Degasser.

- ▶ Any brand of PLC and Commercial HMI.
- ▶ HMI ergonomically designed with adequate information, easy to understand, and organized in a logic way.
- ▶ Start up fast and Safe.
- ▶ Systems adapted to each of our client's specific needs.

MES.AI

Implements a Platform to Track, Control and Optimize the Production Process:

- ▶ Covers all Processes from Scrap Yard to Product Delivery
- ▶ Tracks all elements involved in production (Products, Quality, Consumables, Process, Assets)
- ▶ Dynamic Production Scheduling (Real-Time)
- ▶ Can be Customized to the exact Customer's needs
- ▶ Integrated Machine Learning (AI) Tools
- ▶ Robust, Reliable, Dependable and Fast
- ▶ Can be deployed as a whole or any of its modules individually
- ▶ Configurable – Customer can change/enhance their system