

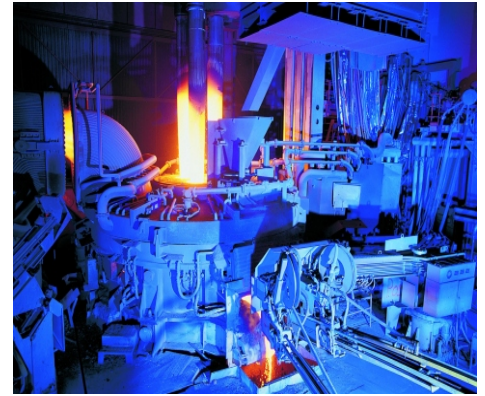


Support Services - EAF/LMF Regulator Tuning & Optimization

With an ever increasing cost of energy to run an EAF or LMF the question that one should ask is:
"Can you afford not to take any action and lose money on every single heat?"

The Electric Arc Furnace (EAF) and Ladle Metallurgy Furnace (LMF) are important equipment within the steel making process. The control system for electrode positioning, the 'Regulator', has a major impact on EAF/LMF performance. Regardless of the control system manufacturer or regulator type (Impedance, Voltage, Current or Power Factor), an annual check-up is essential to ensure your EAF/LMF runs and performs efficiently and effectively.

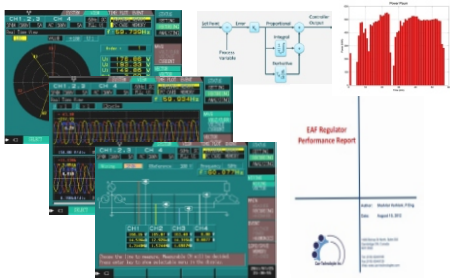
In many cases, OEMs install and commission an EAF/LMF within a limited commissioning and start up period and move onto another project. Also, during an annual shut down or major break down, one may change water cooled cables, electrode arms, proportional valves,... any of which can have direct impact on the EAF/LMF performance.



As a **Melt Shop Manager, Production** or **Maintenance Manager**, one can ask you the following questions:

- How do you measure your EAF/LMF Key Performance Indicators (KPIs) in your melt shop?
- Do you want to benefit from the hidden capacity in your EAF/LMF by improving the regulator performance?
- Do you want to produce more molten steel with less electrical energy?
- How do you know that the measurement transducers and meters don't have errors?
- How do you know your EAF/LMF needs a tune-up?
- Do you tune-up your regulator every year?

The challenge is how do you know that the EAF/LMF regulator is tuned and optimized and how you ensure your EAF/LMF performs smoothly all the time?



The Can-Technologies Engineering Service Team has extensive experience within the steel industry and is ready to work with your team to conduct a performance assessment and prepare a comprehensive report with action list.

Our work consists of reviewing the EAF/LMF transformer spec., examining secondary circuits, verifying PT's & CT's connections, checking outputs for hydraulic valves and reviewing transducer specification & calibration etc. In addition we use our data collection tools to obtain EAF/LMF data over several heats in conjunction with our own data analysis software and generate a comprehensive report.

Our team has helped several customers such as:

- Nucor
- PanAbrasive
- Gerdau
- Wheelabrator
- AMG Vanadium
- Saint-Gobain
- North American Hoganas
- ESCO

Our customers have gained the following results using our service:

- Increased Production
- Reduced Energy Consumption
- Shorter Power-On-Time
- Shorter Tap-to-Tap Time
- Reduced Electrode Consumption
- Reduced Material Consumption
- Improved PQ and Power Factor
- Identification of Errors in Meters
- Identification of Errors in Transducers

If you wish to achieve these substantial benefits please contact us.