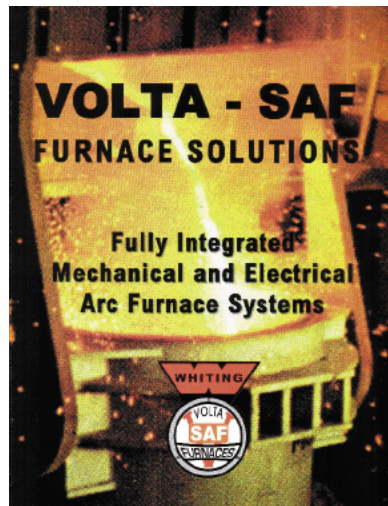




Whiting Equipment Canada Inc.
Volta-SAF Furnace Solutions



VOLTA-SAF FURNACE SOLUTIONS

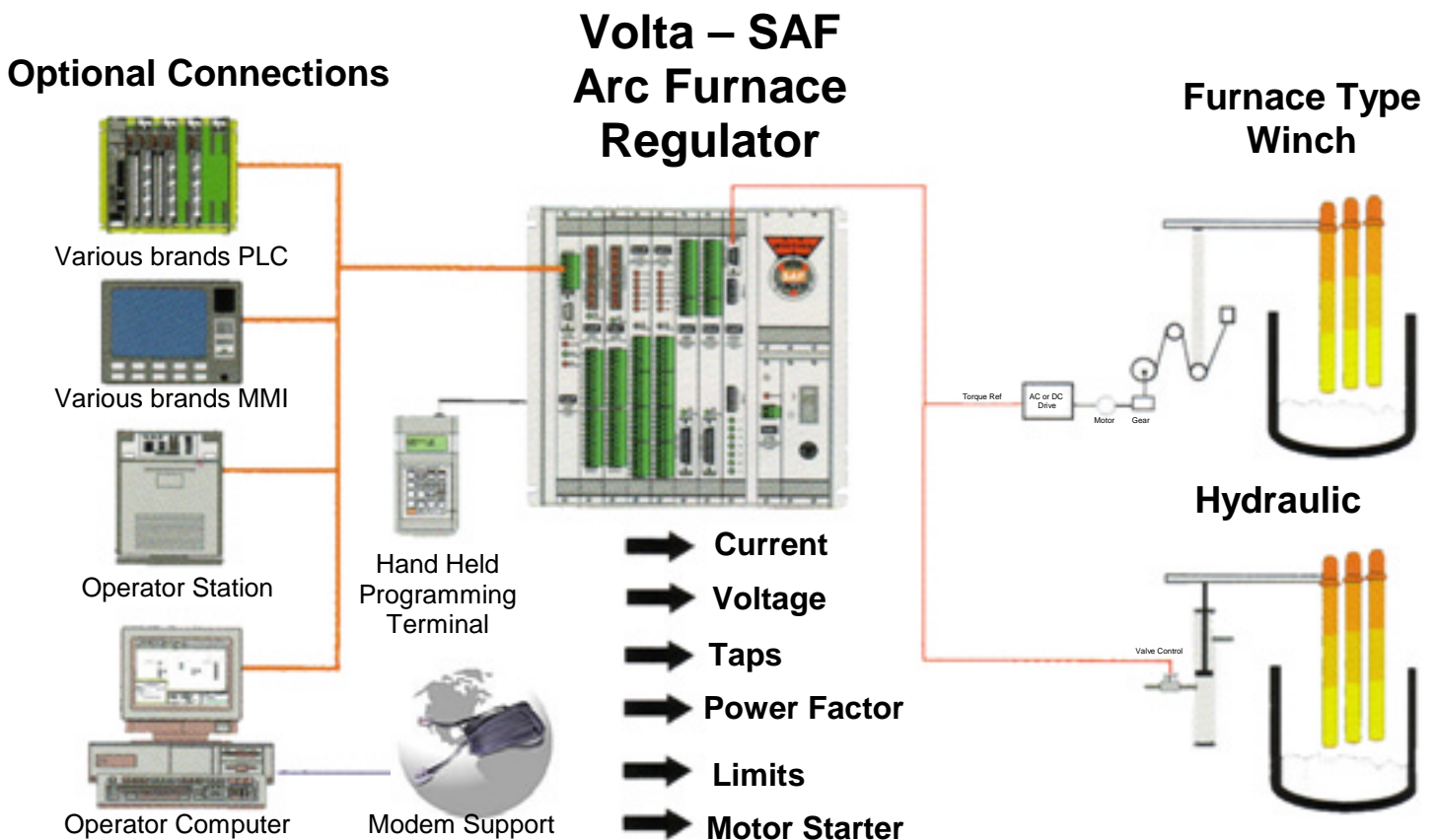
The Volta-SAF Arc Furnace Regulator is designed to provide increased "Smarts" and improved "Communication" capabilities.

Operating costs are directly related to the performance of the electrode positioning controls. The Volta-SAF EAF regulator is a rack based, high speed, digital signal processor that allows many choices of I/O cards and communication links to make it extremely adaptable for tailoring to your particular plant.

The most distinct advantage of the Volta-SAF Arc Furnace Regulation is its **FLEXIBILITY** that allows retrofits to be staged and have savings from one upgrade to allow further expansion of the system.

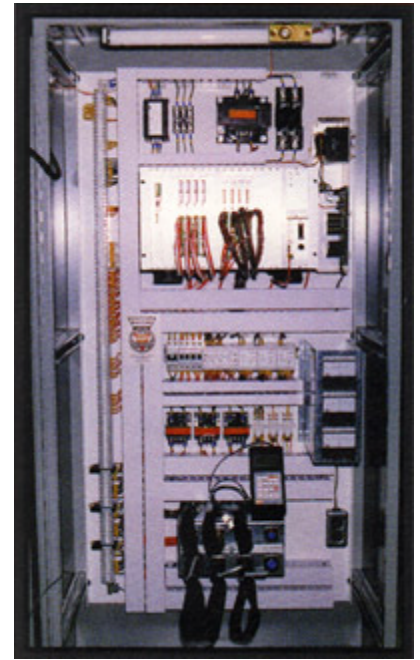
ADVANTAGES

- Limits operation to most stable window
- Rapid adjustment of the arc length
- Wide range of power and current settings
- Hot and Cold Phase compensation
- High response
- Reduced electrode hunting
- Reduced flicker
- Reduced energy
- Reduced electrode usage and refractory wear.



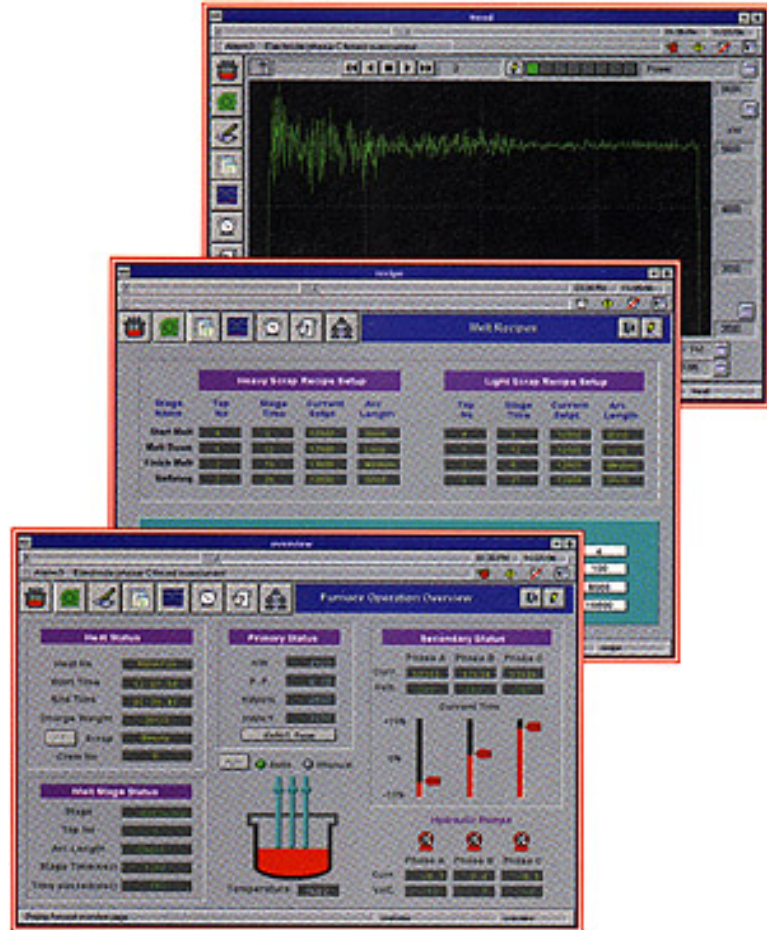
Standard Features

- Adaptive impedance/resistance regulator
- Fiber optic link to ABB DC or Direct Torque Control AC drives
- Graphic program with built in Oscilloscope
- Simple communications architecture with over 25 industrial protocols available
- Hot and Cold Phase compensation
- High response for flicker reduction, reduced electrode breakage and cave in protection.



Set-Up and Monitoring Features:

- Multiple phase status monitoring / alarm diagnostics
- Tap selection and monitoring
- Trend analysis utilization
- Power monitoring and timing
- Report/ logger
- Metering
- Simplified set-up
- Recipes for fixed design or operator modifiable set-ups
- Recipes for different charge type



Whiting – SAF Partnership

Our complete line of equipment and services include:

- AC or DC Drive Winch style or Hydraulic mast positioned installation and modifications
- High performance Volta-SAF Electrode Position Regulator for significant cost savings and improved productivity
- Process monitoring and reporting (standard or customized)
- Maintenance and troubleshooting screens
- Hardwired and Computerized Operator interface
- PLC control for cooling water, hydraulics, feeders, tap changing and other melt shop operations
- Replacement shells for EAF'S
- General EAF equipment upgrade and modernizations
- Water cooled cables and panels

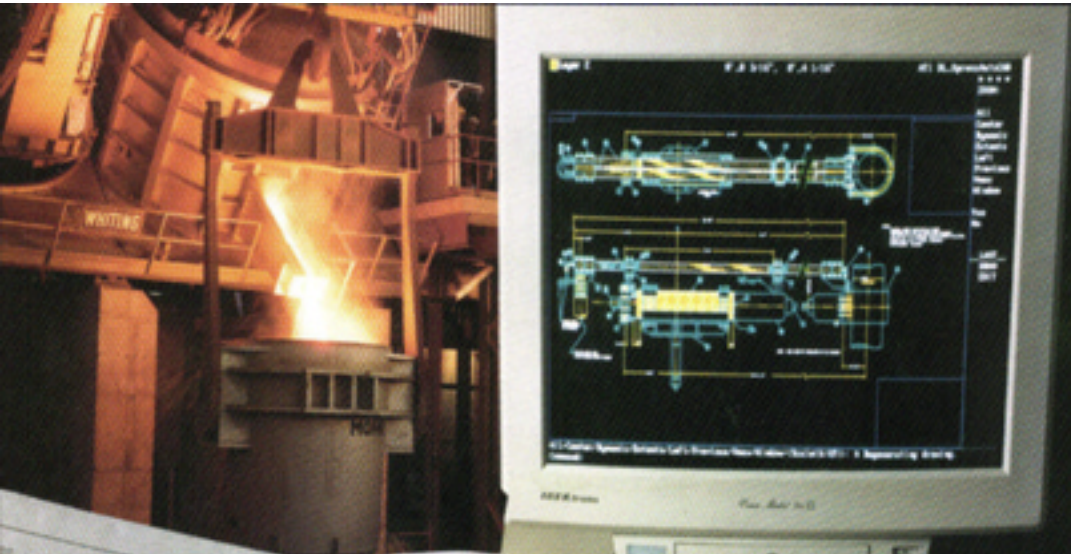
Our Experts:

- Analyze existing operations
- Review conditions of existing facility
- Evaluate the performance of the existing control system
- Provide advice and services to meet your goals
- Provide feasibility studies on your melt shop equipment / processes

A Unique Partnership ...

The Electric Arc Furnace Industry Involves a marriage of various technologies such as Metallurgy, Mechanical, High Power, Controls, Electrodes and Refractory.

The need for expertise in multiple disciplines, has inspired a 15 year partnership between Whiting and SAF Drive Systems Ltd. to allow the combination of mechanical, high power, drives and process knowledge. This long-standing partnership is unique in the metallurgical industry.



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