



# Arc Furnace Regulators and Controls

www.whiting.ca

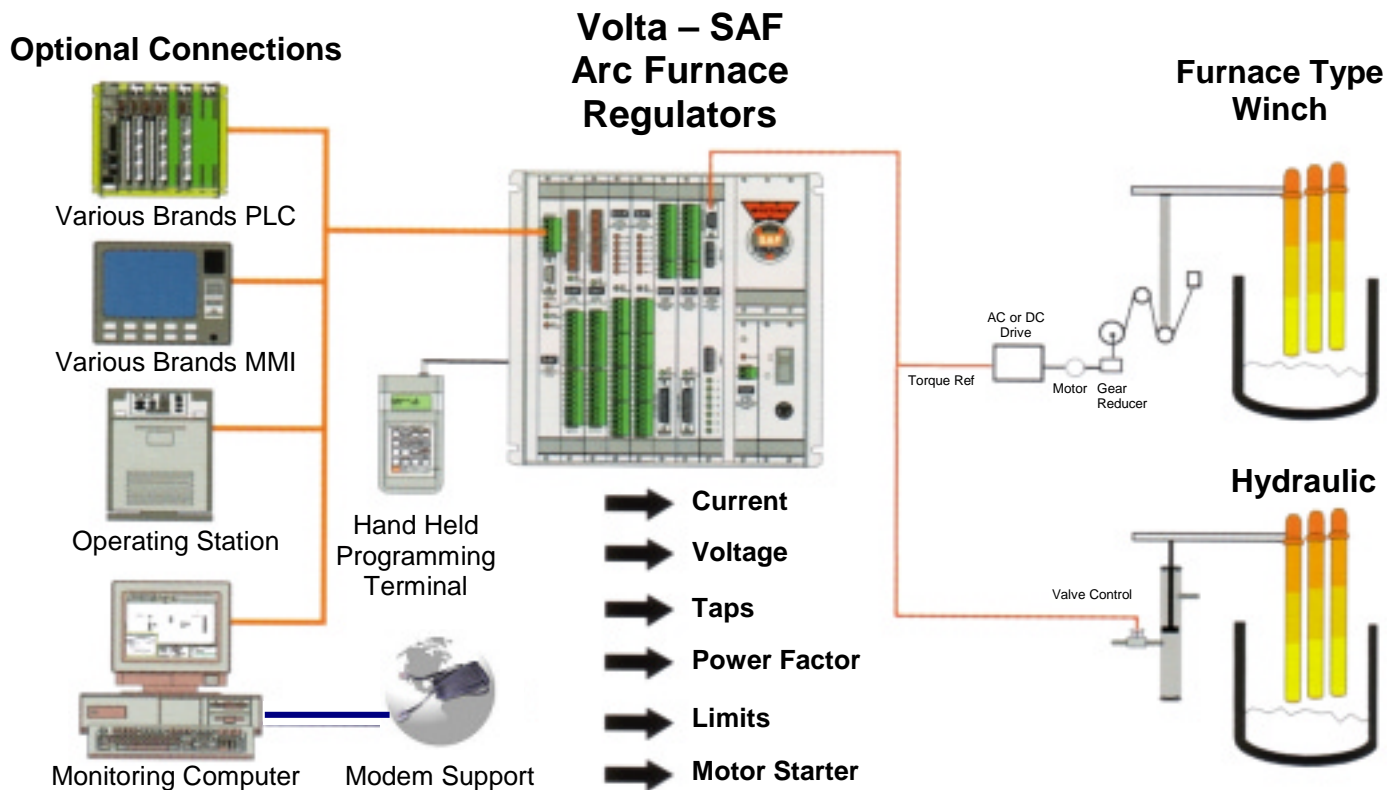
The Volta-SAF Arc Furnace Regulator is designed to provide increased "Smarts" and improved "Communication" capabilities.

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



The Electric Arc Furnace Industry involves a marriage of various technologies such as Metallurgy, Mechanical, High Power, Controls, Electrodes and Refractory. Since 1884, we have successfully integrated these technologies into our products.



# Arc Furnace Regulators and Controls

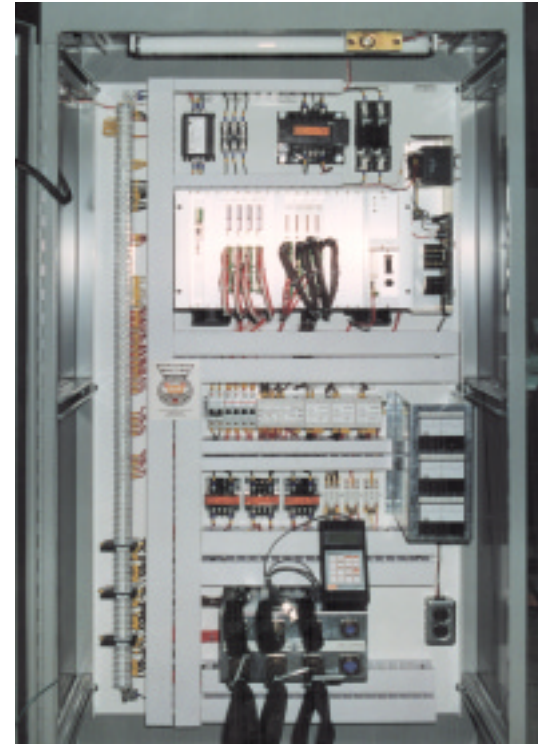
www.whiting.ca

## Standard Features

- Adaptive impedance/resistance/current/voltage regulator
- Fiber optic link to 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



## 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

## 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