

Advancements in Melt System Control Technology

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Abstract

Advanced melt shop automation provides the investment casting industry with the competitive edge to repeatedly produce castings with high dimensional accuracy and intricate design, while at the same time optimizing power usage, automating many functions, and improving operational safety.

These technical advancements of monitoring and control systems provide operators, managers and service engineers with analyzation tools that give them more control, and improves the quality of their melt shop with anything from real time data for advanced troubleshooting to advanced controls for maximum utilization.

Most data can be accessed remotely – anytime, anywhere – via an easy to use colorful graphic interface. The data will show your equipment’s health status and provide access to diagnostics, historical trends, and analytics that enables them to react immediately to changing conditions by being able to monitor energy usage, furnace lining conditions, power levels, and other critical electrical parameters, charge weight, temperatures, alarms and more.

Technologically advanced equipment is designed to reduce costs, and improve the quality, efficiency, and safety of the induction melting process.

Melt system controls are available in various levels of features and capabilities that can help investment casters enhance their melt shop operation.