Lindberg/MPH Ships Aluminum Stack Melting and Holding Furnace to the Secondary Smelting Industry

Lindberg/MPH announced the shipment of a Gas Fired Aluminum Stack Melting and Holding Furnace to the secondary smelting industry. This stack-type central melting furnace will be utilized to produce aluminum ingot and sows. The furnace has a melt rate of 4,500 pounds per hour.

RIVERSIDE, Mich. (PRWEB) November 18, 2019 -- Lindberg/MPH announced the shipment of a Gas Fired Aluminum Stack Melting and Holding Furnace to the secondary smelting industry. This stack-type central melting furnace will be utilized to produce aluminum ingot and sows. The furnace has a melt rate of 4,500 pounds per hour.

In this application, the stack will be fed continuously which maximizes efficiency in keeping the stack full, especially with a low-density charge that aluminum scrap can present. As it melts, the metal flows into the holding chamber where it is alloyed to a certain specification. In addition to low fuel consumption, this technology lends itself to lower metal loss due the burning off of contaminants in the stack. Equipment motion, temperature control, combustion control, stack level control, metal level control, and fault annunciation functions are handled by a programmable logic controller and HMI in the control panel.

The furnace is designed with access grating and a ladder for safe access to roof mounted equipment during maintenance. A three-point laser metal level sensor is provided which notifies operators of the current furnace metal level through an attached light tree.

“The stack melter design is the most efficient method of melting scrap and ingot as it utilizes combustion gases to preheat the material in the furnace stack prior to melting. The stack melter top portion is partially covered to only allow access to the conveyor system and allows the necessary flue gases to be exhausted while insulating the other portions for fuel efficiency.”

– Andrew Paul, Sales Representative

Unique features of this Lindberg/MPH aluminum stack melting and holding furnace include:

• Rugged fully welded steel plate furnace construction
• High alumina castable lining for long refractory life backed with insulating board for efficiency.
• Full width charge door and three side access doors for cleaning.
• Multiple work and drain taps
• Programmable logic controller with custom screens to control all furnace movement, processes and historical data logging.
• Temperature controllers with automatic preheat and dry out functions
• Individual ratio regulator control for each burner
• Three-point laser metal level sensor with light tree level indication.

About Lindberg/MPH
In addition to melting and holding furnaces for non-ferrous alloys, Lindberg/MPH is a leading manufacturer of standard and custom industrial heat treat furnaces, including pit, box, IQ, hot stamping, and belt type for the ferrous and non-ferrous markets. Lindberg/MPH customers cover a wide range of industries including aerospace/military, automotive, commercial heat treating, energy/oil, electronics and the forging markets.
Founded in 1912, the company has more than 75,000 industrial furnace installations worldwide and their equipment is backed by a full range of customer support services and the most extensive replacement parts inventory in the industry. Lindberg/MPH is a proven leader in the thermal processing industry, with a long track record of proven policies and management practices.
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