



Heating / Dryout Torpedo Car

Torpedo cars are heated after furnace outages or after relining. The ladle is rotated to allow a burner with a "T" nozzle to be installed. Ceramic fiber is used to cover the opening.



Torpedo Car Meltout

Removing frozen iron from torpedo cars is a valuable service that Hotwork provides. Natural gas and oxygen are required. Removal rates of 2-4 tons per hour are common.

Coke Battery Heatup / Hold Hot

Hotwork developed high velocity burners for hold hot and uniform heating of brickwork in both new



Coke battery heatup

and repaired batteries. Turnaround time on repaired slot type oven walls is dramatically reduced. Significant commissioning time savings is achieved on heatups performed on new and repaired non-recovery batteries.



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Hotwork Services to the World of Iron and Steel.



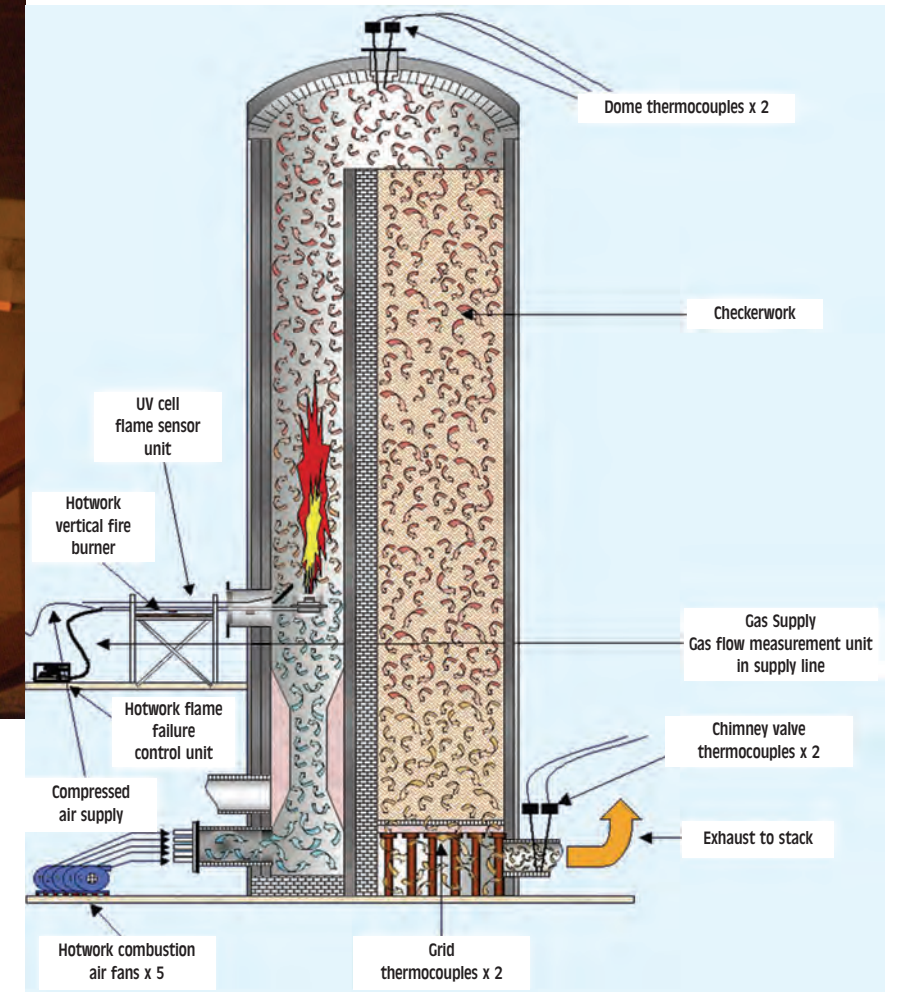
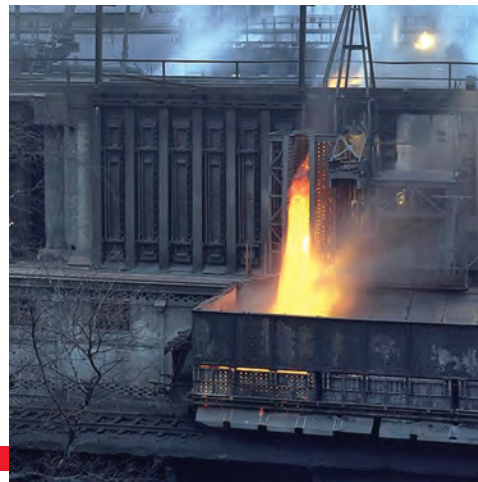
Hotwork Heatup Services

Hotwork introduced high velocity heating to the iron and steel industries in 1972.

The Hotwork technicians and management staff have a wide range of experience in the iron and steel industries.

The Hotwork burner is portable and has the ability to be adapted to many heating needs.

Hotwork is organized to be able to react to customer's needs anywhere in the world on short notice.



Blast Furnace Repair Dryout

The burden is blown down to tuyere level. In most cases furnace linings are heated after gunniting or shotcreting. Three to four burners are installed through tuyere openings. All burners are directed upward.

Blast Furnace Reline Dryout

Steps are taken to pressurize the furnace. Burners are fired through the tuyeres and directed at the hearth and stack.

Heating Hotblast Main & Bustlepipe

The hotblast system can be heated from the end of the main. Venting is done through selected tuyeres into the furnace. Burners can also be installed in the bustle pipe. Products of combustion are vented out the backdraft stack.

Blast Furnace Stove (External Burner) Heatup / Hold Hot

The stove is heated either with high velocity burner or a vertical fire burner. Both can be installed in or through process burners, or placed in a cleanout door or inspection port.

Blast Furnace Stove (Internal Burner) Heatup / Hold Hot

The burner is installed through the stove process burner. Combustion air is provided by natural draft which is controlled by adjusting the chimney valve and the burner opening.

Walking Beam Reheat Furnaces

Reheat furnaces are brought to just above radiant heat. At that temperature the process burners can be placed into operation. Care must be taken to protect process burners and the walking beams.

Pusher Type Reheat Furnaces

Pusher type reheat furnaces are often charged at the beginning of the heatup. Cooling water systems are operational during the process.

Drying Iron Troughs and Slag Runners

Hotwork burners are installed in selected locations to cure linings after they are cast. In most cases the linings are dried in 24 to 36 hours. Temporary and permanent covers can be used.

