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Nazione	India

## PRODOTTI O MACCHINARI REFRACTORY DRYOUT

It is very much important that proper dryout of refractories should be undertaken as water is the common solvent for mixing of mortars, rams, castables, cements used for installation. This water which is hydraulically bonded through chemical interactions, between various refractories after installation needs to be driven out from the lining or else can cause a severe crack by trapping steam in the lining which shall ultimately give way to the entire castable lining. To ensure optimum refractory performance it is imperative that all moisture is removed thoroughly and uniformly during the course of heat-up and prior to the plant being subjected to onstream production.

### General description of the procedure of the dry-out of a refractory lining:

For the dry-out of a refractory lining external High velocity burners are used. These external burners are fired with light weight oil/Gas and will be installed in openings like manholes or doors.

One burner unit exists of the mobile burner with the Extended Nozzle, the Combustion fan, regulation flap for the combustion air, the connecting air duct and the regulation unit. The fans are sucking the ambient air and compress it up to max. 60 mbar. This air used for combustion of the burner.

The burner itself consists of the combustion chamber in which the fuel oil and compressed air/Gas will be mixed with the combustion air and ignited and the steel part (extended nozzle, manufactured of heat resistant steel) which will lead the flue gases. These extended nozzle could be straight or with an angle and the end so that the flue gas could be led to a desired direction and critical parts close to the burner will not be "touched" directly by the flue gases.

The air duct is used for the compressed ambient air to the burner.. The required temperature of the outgoing flue gases will be controlled and achieved by controlling fuel oil by our specialists who are on site continuously.

The flue gas temperature is controlled manually by controlling oil flow by valve of the oil train to achieve required temperature as per the heating schedule.

The maximum temperature reading of all the thermocouple placed in equipment will be considered as target temperature.

## Cement Industry

PreHeater & Cyclones  
Rotary Kilns & Inter Coolers  
Coolers  
Rawmills  
Cement Mills

## Power Industry

C.F.B.C. Boilers  
Seal Port  
ASH Cooler & Cyclones  
Waste Heat Boilers

Combustions Beds  
Ducts  
Coal Collector  
Kiln

## Steel Industry

Hot Blast stove / Furnace  
Metallic Pre-Heater reactor  
Runners & Laddles  
Blast Furnace Dryout  
Hot Blast main  
Bustle Pipe Dryout  
Cokeovens

## Aluminium Industry

Furnace  
Cyclones  
Rotary Lilns & Inter Coolers  
Calcliner

## Copper Industry

Copper Smelters  
Anode Furnaces & Laddlers  
Chimney's

## Fertilizer & Chemical Industry

Lime Kiln  
Secondary Reformer  
R.G. Boilers  
Reactor  
Heat Exchanger & Reformer  
Incinerator

## Petro Chemicals

Sulphur Furnace  
FCCU / SRU / BBU  
Reactor  
Sulphur Condenser  
Main Combustion Chambers / Fired Heaters / Stacks  
Primary Reformer  
Secondary Reformer  
Vacun Heaters  
Incinerator

## Non Ferrous metal

Aluminium Holding Furnaces  
Aluminium Melting Furnaces  
Induction Furnaces  
Tilting Furnaces

## Company Profile of **Sphere Hotwork**

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