Hetwork



Cement / Mineral Processing

Dry out/Pre-heating of refractory lining:

- Complete units / greenfield
- After maintenance
- Partial after maintenance

Why Important?

- Improving campaign life time
- Prevent pre-mature refractory failure
- Prevent steam explosion and cracking

Services Performed for:

- Tower
- Cooler
- Mill Heating
- Tertiary Air Duct
- Firing Hood
- Nose Ring
- Tertiary Take-off
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- Bullnose
- Drop out chute
- Curbs
- Walls
- Burner dry out
- Electrical dry out



contact@hotwork.ag www.hotwork.ag Our special dry out and heat up technology is based on the use of Hotwork International High Velocity Burners operating on an excess air basis, which have been especially developed for the dry out and heat up of all types and sizes of furnaces/kiln/vessels and refractory lined components. The system permits a positive pressure assuring uniform temperatures in the vessel/piping components etc.

Our system has been developed to ensure that precise temperature control of hot gas emissions generated by the high velocity burner can be regulated at all stages between 60°C and 1200°C, simultaneously eliminating hot-spots or stagnant areas within the vessel/furnace. The Hotwork International Technology permits temperature uniformity of \pm 3°C.

Modern refractory for the cement and mineral processing industry are designed for high efficiency, durability and easy installation. How ever they are vulnerable in newly installed units or after maintenance in green states. Applying the wrong way of initial heating and dry out leads to steam explosion and macro cracking reducing the over all refractory campaign life and premature refractory failure. Which may not be visible seen until the first cooldown when refracotry shrinks.

Under normal start-up conditions using the kiln burner, heat is introduced at the firing hood and drafts up the kiln. The cooler does what it is designed to do - it cools. Later on the refractory dry-out happens in seconds when it is bathed in hot clinker. The Hotwork method applies precisely controlled heat which dries the curbs and bullnose, firing hood and nose ring. Dry-out and pre-heating can be done at the same time as the start-up.

Applying the Hotwork method, using high velocity burners to dry out refractory offers the most precise temperature control, exact to the specification of the refractory manufacturer. The Hotwork method utilizes precise controlled convective heat for an accelerated moisture removal. Our unique systems allows an accurate temperature control from ambient up to 1200°C (2200°F) with an incredible high turndown capability of 100:1.

Maintenance and Full Units dry-out:

Hotwork works on jobs including 1 to full unit dry out with 25 burners.

Fuel's used:

Natural gas, propane or any gaseoues fuel as well as light oil, diesel, including the complete temporary piping for the fuel supply, offers a worry free solution.

Raw Mill:

A new facility is in need of temporary heat-supply, because there is no way to start a pre-heater without feed and heat is needed from a kiln to generate feed.



Location:

Being an International company, we reach out to any location worldwide. With over 250 Burner sets and equipments stored in our own hubs in Switzerland, India, China, The Philippines and Mexico, Hotwork International is offering a fast and reliable service in any location worldwide.

Manpower:

More then 60 highly qualified service engineers guarantee a smooth project completion at the highest quality and safety standards. Internal training and external safety measures are introduced as well as an internal and external evaluation of all burners and electrical components certifying the best possible service available for our clients.

Swiss Quality and German Reliability complete engineering and supply



Hotwork International Head Office: Switzerland / Europe

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Worldwide Availability Cuernavaca / Mexico | Shanghai / China | Baroda / India | Cebu / The Philippines | Jakarta / Indonesia | Osaka / Japan Representations Buenos Aires / Argentina | Bangkok / Thailand | Seoul / South Korea | Istanbul / Turkey

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