Hotwork INTERNATIONAL

Dry out and Heat up Service

- Even temperature distribution
- Extend Refractory life
- Reduce risk of steam explosion
- Cost effective
- 365 days/year available

Method and Equipments

Modern design technology necessitates the installation of substantial quantities of expensive refractory materials for high-temperature processes. Properly initializing these newly installed refractories is critical. If the initial heating process occurs too rapidly or generates localized hotspots, differential rates of expansion between adjacent refractory areas may ensue, resulting in severe cracking or damage. There's also the risk of converting residual moisture into steam too quickly, potentially leading to explosions. Both of these scenarios inevitably impact the efficiency and lifespan of the refractory.

Most conventional process heat sources lack the precision required in the lower temperature ranges, where steaming is likely to occur, making them less suited for the initial drying out or heat-up phase. Moisture may infiltrate the refractory and become trapped, even if the refractory's hot face appears dry.

Dry Out and Heat Up Service:

Temporary heating sources, in some cases, introduce hotspots, uneven temperature distribution, and extended durations for the drying out or heat-up process, unnecessarily prolonging the timeframe.

In many industries, it has been widely acknowledged that the most effective approach to drying out and heating up refractory materials involves employing a heat source that passes a substantial volume of hot gases over the refractory surface. This method ensures even temperature distribution and the complete removal of moisture from the refractory.

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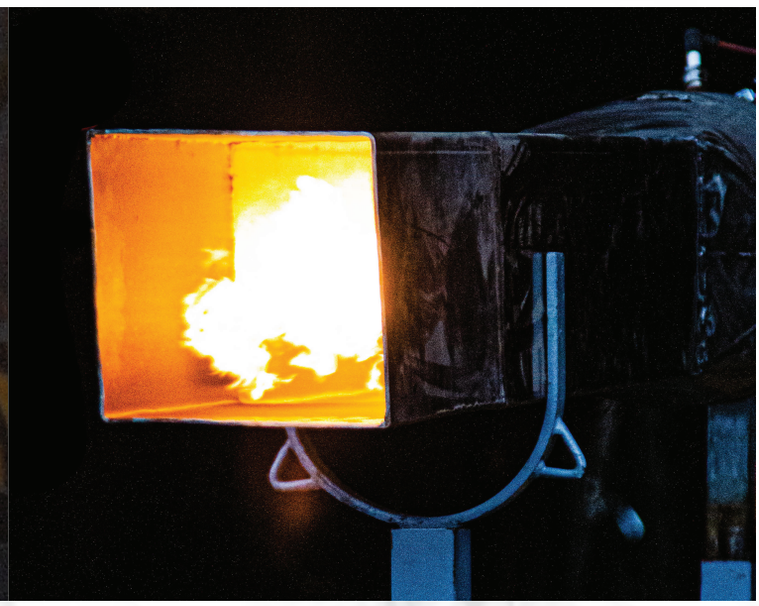
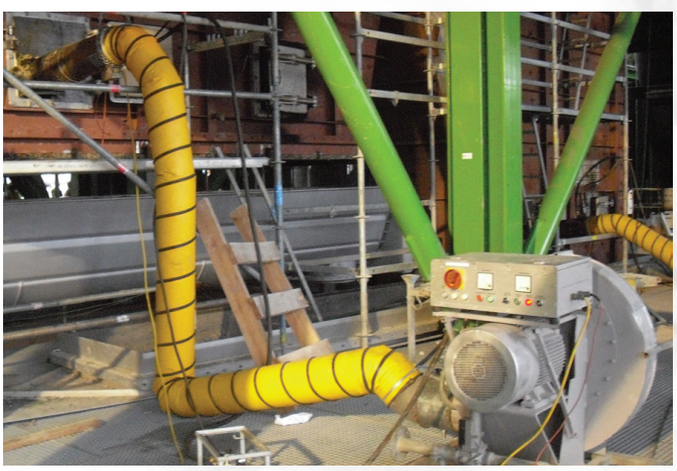
Such an approach not only conserves time and reduces fuel consumption but also safeguards the initial investment made in expensive refractory materials, ultimately extending the lifespan of furnace refractories.

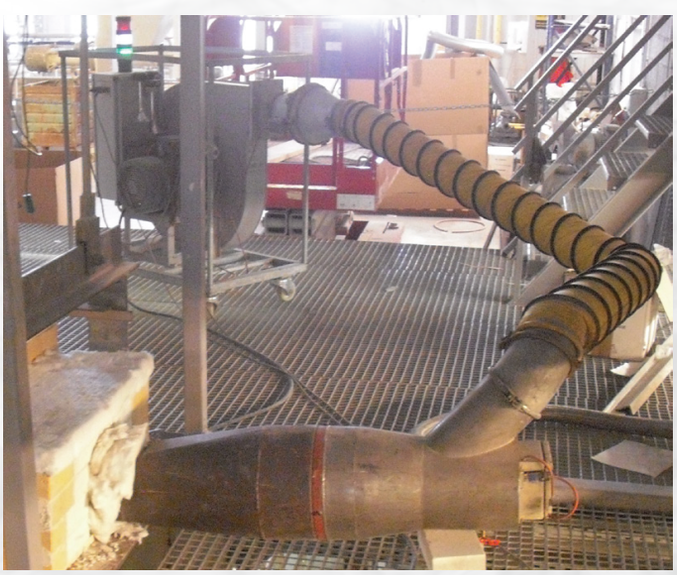




Since its establishment in 1962, Hotwork has been delivering refractory dryout services to industries across the globe. Our specialized technology relies on the use of High Velocity Burners, which can operate with both gas and oil fuels.

These burner systems offer portability and exceptional flexibility in terms of space requirements.

The burners can be positioned through nearly any reasonably sized furnace opening, enabling precise placement of heat input to ensure uniform temperature distribution throughout the entire volume of the object.



High Velocity Burners have a turndown ratio of 100:1, allowing precise temperature control within the range of 80-1400°C. Each burner is capable of an adjustable output of 2.5 Million kcal (10 Million BTU) and over 5,000 Nm³ of hot gas per hour.

Hotwork International's Global Presence with 600 High Velocity Burners and 300 service engineers worldwide, is available 24 hours a day, 365 days a year to serve you. Utilize our expertise by getting in touch with one of our engineers for more detailed information.

Hotwork INTERNATIONAL

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