

Dry Out and Heat Up Service



Modern design technology requires the installation of large amounts of expensive refractory for high temperature process. Newly installed refractory require a carefully controlled initial heating. If the initial heating is carried out too rapidly and/or with local hot spots, then different rates of expansion between adjoining refractory areas may occur, creating stresses which cause severe cracking or worse damages.

Residual moisture may be converted to steam too quickly, resulting in an explosion. Both events will naturally have an impact on the efficiency and life time of the refractory.

Most conventional process heat sources do not afford the close temperature control in the lower ranges (during which steaming will normally take place) and are less

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

ideally suited to carry out the initial dry out or heat up. Moisture might drive into the refractory and is trapped, even so the refractory hot face may appear dried out.

Some temporary installed heating sources might also create hot spots, uneven temperature distribution and take much more time for the dry out or heat up than usually necessary.





In most industries it has become widely accepted, the only truly effective means of drying out and heating up refractory is to deploy a heat source, passing large volume of hot gases over the refractory surface, providing an even temperature distribution and removing all moisture from refractory.

This will not only save time and money from fuel consumption, it also protects the initial investment in expensive refractory and enhances the furnace refractory life time.



Since 1962, Hotwork has provided refractory dry out services to industries worldwide. Our special technology is based on the use of High Velocity Burners either working with Gas or Oil fuels.

These Burner systems are portable and highly flexible in terms of required space. It is possible to position burners through virtually any reasonable-sized furnace opening, so that the heat input can be positioned in the most appropriate manner to provide uniform temperature distribution throughout the entire volume of the object.

High Velocity Burners have a turndown ratio of 100:1 enabling a precise temperature control at stages between 80-1400°C. Each Burner has an adjustable output of 2.5 Million kcal (10 Million BTU) and over 5.000 Nm³ hot gas per hour.

Hotwork International having 250 High Velocity Burners and 60 service engineers worldwide are available 24 hrs/day, 365 days/year for you.

Utilize our expertise and get in touch with one of our engineers for further detailed information.



Swiss Quality and German Reliability complete engineering and supply



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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
Dubai / UAE | Cairo / Egypt | Orlando / USA



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