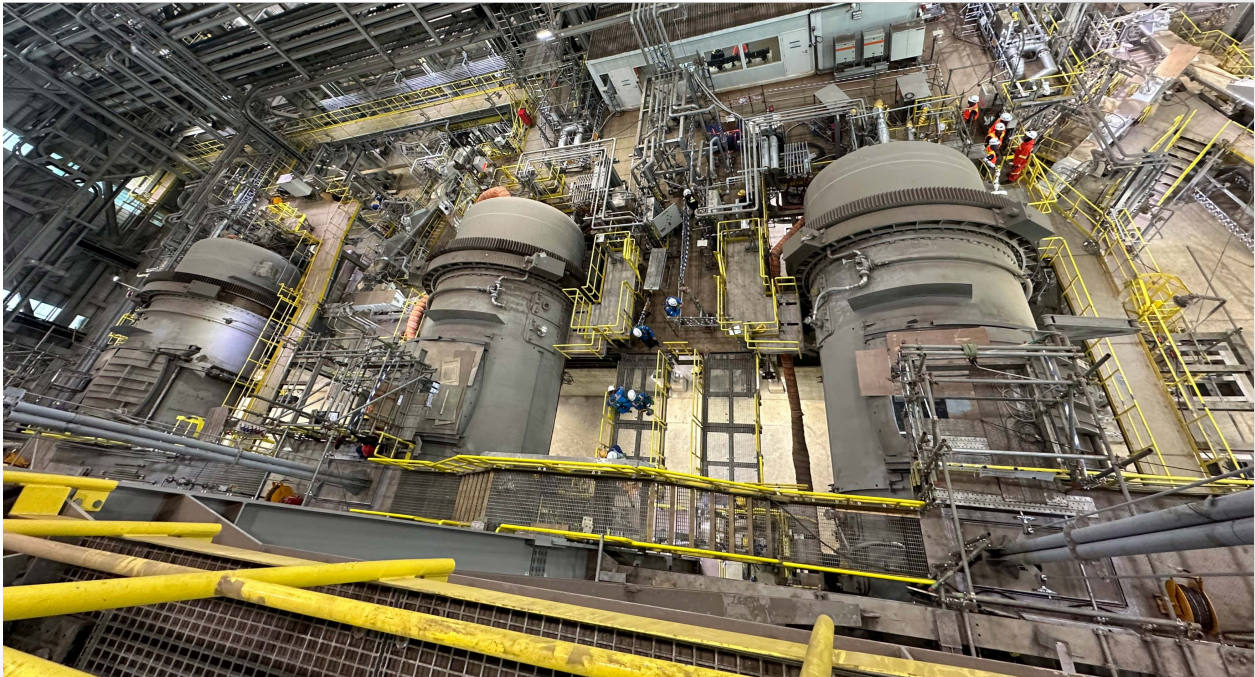


- Furnace Heat Up
- Furnace Cool Down
- Furnace Hot Hold
- Extended Refractory Life
- Reduce Risk of Steam Explosion
- Cost Effective
- Even Temperature Distribution
- 365 Days/Year Available 24/7

Anode Furnace Services

Hotwork International's Global Services to The Copper & Nickel Industry



Since 1963 Hotwork has provided Furnace Heat-Ups to the major Nickel and Copper smelting industries worldwide. Our special 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 heat up of all types and sizes of Anode Smelting furnaces. The system permits a positive furnace pressure assuring uniform temperatures in the furnace. Anode furnace The anode furnace is a production equipment that requires auxiliary heating. Compared with the traditional combustion air combustion, the oxygen combustion technology has obvious advantages in environmental protection and economics. However, the main problem of traditional oxygen combustion is the uneven temperature distribution and the high temperature oxygen-burning flame will adversely affect the heating process and the refractory materials of the furnace body, reduce the life of the furnace lining, and the peak temperature of the oxygen combustion flame is high.





HV3000 Heat Up system



Detailed Engineering applied within for best uniform heating & execution



Temperature Control

Uniformed Heating & Control:

Since its establishment in 1962, Hotwork has been delivering refractory dry out 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.

What is Refractory Dry-Out?:

Refractory dry out is the process of removing moisture from refractory materials, such as bricks and refractory castables, after their installation in high-temperature industrial applications. This is important because refractory materials are designed to withstand extreme temperatures, and the presence of moisture can cause them to crack, spall, or fail when exposed to heat. During the dry out process, the refractory materials are gradually heated to remove any moisture that may be present. This is typically done by slowly increasing the temperature over a specific period of time, allowing the moisture to evaporate without causing thermal stress. Both vaporization and diffusion play crucial roles in the refractory dry out process.

Location:

Being an International company, we reach out to any location worldwide. With over 600 Burner sets and equipments stored in our own hubs in Switzerland, India, China, the Philippines, Indonesia and Mexico, Hotwork International is offering a fast and reliable service in any location worldwide.

Manpower:

More than 600 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.



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 Website: www.hotwork.ag

Worldwide Availability:

- | | | |
|--------------------|-------------------|-----------------------|
| Chicago, USA | Bergen, Norway | Busan, South Korea |
| Orlando, USA | Berlin, Germany | Osaka, Japan |
| Houston, USA | Kindberg, Austria | Bangkok, Thailand |
| Cuernavaca, Mexico | Milan, Italy | Vadodara, India |
| | Istanbul, Turkey | Cebu, The Philippines |
| | Nazare, Portugal | Jakarta, Indonesia |
| | Cairo, Egypt | Noumea, New Caledonia |