

HOTWORK-USA  
223 Gold Rush Road  
Lexington, KY 40503-2904 USA  
Ph: 1-859-276-1570  
Fax: 1-859-276-1583  
hotwork@hotwork.com

HOTWORK AUSTRALIA  
2/83 Market Street  
Smithfield NSW 2164  
Australia  
Ph: 61.2.9756.1243  
Fax: 61.2.9756.1289  
hotwork@hotwork.com



SERVICING  
THE WORLD of  
**ALUMINUM**  
FROM CALCINER TO FURNACE







## Since 1965

Hotwork has provided refractory dryout and heatup expertise to a multitude of industries. With over 20,000 projects completed to date, we are the largest and most experienced dryout company in the world.

Our equipment and personnel are strategically placed around the globe allowing us to respond to customer's needs no matter the location. Our field personnel are backed by a management team with an average experience of over 25 years. But we are more than experience. Hotwork prides itself on being a solution-oriented company utilizing cutting edge technology to deliver the best possible service.



## The Hotwork Advantage

Hotwork's unique high velocity burner system is tailored to meet the requirements of today's refractory manufacturers and consumers. Our burner system creates optimal conditions for refractory dryout by creating a turbulent and pressurized atmosphere within the furnace. This results in excellent temperature uniformity and minimizes the risk of steam spalling or damage during dryout.

## Refractory Dryout Services

Hotwork has provided refractory dryout services to the aluminum industry since 1974. Today's modern aluminum melting and holding furnaces contain state-of-the-art refractories that can be difficult to dry properly. In addition, furnace burners utilize radiant flames not capable of delivering the lower temperatures required at the beginning of the dryout schedule. This combination of factors can create a scenario where refractory linings are damaged due to using furnace burners for dryout. Don't take this risk. Let Hotwork utilize its unique high velocity burner system to properly dry your refractory and minimize your risk – no matter the furnace design.



# World **Leaders** in Aluminum FROM CALCINER TO FURNACE

## Aluminum Furnace Types Serviced by Hotwork

- Round-Top Charge Melters
- Side-Well Melters
- Holding Furnaces
- Stack Melters
- Homogenizing Furnaces
- Front Load Melters
- Rotary Dross Furnaces
- Dry-Hearth Melters
- Barrel Furnaces
- Multi-Chamber Melters

## Hold Hot Services and Emergencies

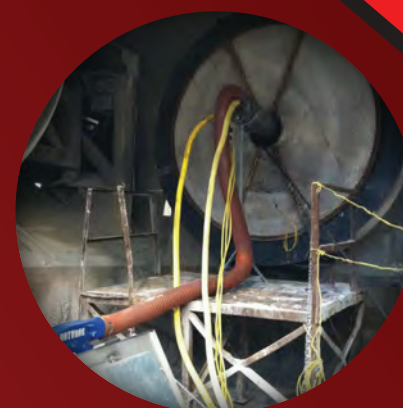
A modern aluminum facility is comprised of many different components. From time to time air compressors, power transformers and other components can fail, leaving furnaces full of molten metal. We are here to help. Hotwork's high velocity heating systems are inserted into the furnace and used to keep the furnace hot (and metal molten) while repairs are made. Once equipment has been repaired, production can be ramped up more quickly because the furnace is still hot.



## Alumina Calciners

An alumina calciner is a complex system of refractory lined cyclones, furnaces, ash coolers and connecting ductwork. Hotwork performed its first refractory dryout of an alumina calciner in the late 1970s. By strategically placing burners, thermocouples and bulkheads throughout the system, we are able to maintain temperature uniformity throughout the dryout process. Today, this approach is considered the industry standard for drying new refractories within a new alumina calciner.

“Today, Hotwork's approach is considered the **industry standard...**”



**Hotwork**<sup>TM</sup>

