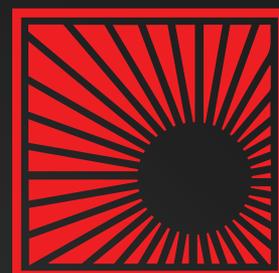


SERVICING  
**THE WORLD** of  
**HYDROCARBON**  
**AND CHEMICAL**  
**PROCESSING**

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

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# World Leaders

in Refractory Dryout to the Hydrocarbon Processing Industry

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 or vessel. This results in excellent temperature uniformity and minimizes the risk of steam spalling during dryout. Our 100:1 turndown ratio allows for precise temperature control at the lower temperatures in the beginning of a dryout schedule.

## Hotwork Thermal Dryout Services

Proper refractory dryout can improve the longevity of refractory linings. In an industry where time is more critical than ever, premature refractory failure must be avoided. The state-of-the-art refractories used in today's refineries can be very expensive and difficult to dryout properly. Hotwork's unique, high velocity, convective heating system allows for precise temperature control from ambient to over 2500°F (1371°C). In large, complex units such as FCCUs or flexicokers, Hotwork will engineer a dryout plan to achieve uniform temperatures by strategically placing burners, bulkheads and thermocouples throughout the system. By distributing our burners throughout the system, we significantly reduce the risk of localized overheating and steam spalling.

## Sulfur Recovery Units

Sulfur Recovery Units, or SRUs, come in a variety of configurations. These complex systems can utilize multiple types of refractories within one unit. In addition, the dryout schedule for SRUs often requires a very high temperature at the end of the schedule. Hotwork's specialized combustion system is capable of delivering the required temperature optimizing refractory life and ensuring a smooth transition back into operation.



## HPI and Petrochemical Units Serviced by Hotwork

- Fluid Catalytic Cracking Unit (FCCU)
- Flexicoker
- Delayed Coker
- Fired Heater
- Thermal Oxidizers
- Rotary Incinerators
- Rotary Hearths
- Reactors
- Reformers
- CO Boilers
- Package Boilers
- SCOT Burners
- Coke/Carbon Calciners
- Condensers
- Transfer Lines/Ductwork
- Ground Flares
- Stacks/Chimneys
- Gasifiers
- Syngas Units
- Hydrocrackers
- Waste Heat Boilers
- Multi-Hearth Furnace
- Sulfur Recovery Units
- Post Weld Heat Treatment
- Coating Cures
- Wet Gas Scrubbers

## Post Weld Heat Treating

Typically, vessels are heat treated or stress relieved by placing them inside heat-treating furnaces or by wrapping them in electrical heating pads. However, sometimes vessels are too large to place inside furnaces or wrap in pads. In situations such as these, Hotwork's combustion system can be used to post weld heat treat and/or stress relieve these larger vessels. Our experienced personnel are able to satisfy the same ASME standards utilizing the Hotwork combustion system while saving time and money.

Since the 1970s Hotwork has successfully performed post weld heat treating on hundreds of vessels both in the field and in fabrication shops throughout the world.