

## Iron and Steel

### Dry Out and Pre-heating

- portable High Velocity Burners
- adaptable to clients requirements
- experienced manpower
- precise temperature control from ambient to 1400°C
- worldwide availability

### Service performed for:

- Blast Furnace Repair
- Blast Furnace Re-line
- Heating Hotblast Main & Bustlepipe
- Blast Furnace Stove Heat-Up / Hold hot
- Reheat Furnace (Walking Beam/Pusher)
- Dry-out Iron throughs/slag runners
- Coke Oven full or partial



Our special dry out and 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 dry out and heat up of all types and sizes of furnaces/kiln/vessels and refractory lined components. The system permits a positive pressure assuring uniform temperatures in the vessel/piping components etc.

Our system has been developed to ensure that precise temperature control of hot gas emissions generated by the high velocity burner can be regulated at all stages between 60°C and 1200°C, simultaneously eliminating hot-spots or stagnant areas within the vessel/furnace. The Hotwork International Technology permits temperature uniformity of  $\pm 3^{\circ}\text{C}$ .







#### **Blast Furnace:**

Furnace are either heated after repair or re-line. In both cases Burners are installed through the tuyeres, firing towards the top or hearth.

#### **Heating Hotblast Main and Bustlepipe:**

Heat can be applied from the end of the main, venting through selected tuyeres into the furnace. Burners can also be installed in the bustle pipe.

#### **Blast Furnace Stove Heat-Up or Hold-Hot:**

The stove can be heated by high velocity burner or vertical stove burner, with combustion air blower or by applying natural draft. Both can be installed in or through process burners or placed in a cleanout / inspection door.

#### **Reheat Furnace (Walking Beam / Pusher):**

The Furnace is brought to radiant heat, enabling the process burners to take over and start operation. Special care is taken to protect the process burner and walking beams. Cooling water systems are operational during the process.

#### **Dry-Out of Iron Throughs/Slag Runners/Vessels/Components:**

Hotwork High Velocity Burners are used to dry-out and cure various linings. Usually a dry-out takes several hours. Temporary or permanent covers can be used.

#### **Coke Oven:**

Holding batteries/chambers hot and heating up repaired or new batteries. The Turnaround time on repaired oven walls is dramatically reduced.



#### **Location:**

Being an International company, we reach out to any location worldwide. With over 250 Burner sets and equipments stored in our own hubs in Switzerland, India, China, The Philippines and Mexico, Hotwork International is offering a fast and reliable service in any location worldwide.

#### **Manpower:**

More than 60 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.

*Swiss Quality and German Reliability .... complete engineering and supply*



#### **Hotwork International**

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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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