

Gas Fired Blast Preheater

An Old Technology With New Efficiency

Gas fired Blast Preheaters from Kuttner North America offer proven performance for increased operational efficiency. Kuttner's system combines the benefit of the price difference in gas and coke with a very high efficiency of up to 80% for preheating.

High Efficiency of Heat Exchangers

The efficiency of the new generation of blast preheaters of up to 80% will guarantee a fast return of investment. In fact ROI times of one year or less have been achieved. The forecasted price for natural gas is supposed to stay stable for the next 20 years. A long way to go with this equipment and the possible savings. Together with the much lower CO₂ footprint of the overall cupola operation, this system prepares you for the upcoming environmental challenges in foundry operations.

Our technology is embraced around the world, setting the standard in hot blast air systems. No other design offers all of these features to enhance your operation:

- Blast air temperatures up to 1,150° F
- Coke savings of up to 15%
- No tube cleaning necessary due to "clean" combustion of natural gas to H₂O and CO₂
- Stable cupola operations much less affected by wet coke
- Compact design and footprint for implementation into narrow spaces of existing melt centers
- Higher production rate than with cold blast
- Very precise predictions of cupola operations
- Modular design for future upgrade flexibility
- Easy access to key equipment for ease of maintenance



We offer the complete package: engineering, technical support, parts and service together with core equipment designed and made in Germany. Contact us to learn more about this system, our full range of capabilities and how we can help you reduce your energy and operating costs.

Gas Fired Blast Preheater Systems



Be Less Dependent on High Coke Prices

The coke price is a world market price due to the transportability of this bulk material. A high part of this price is, therefore, affected by global demand and the transport and quality of foundry coke.

The natural gas price is a local market price. Especially in North America with new methodologies of gaining natural gas, this price is forecasted to be reasonably low for the next two decades.

The idea of replacing coke with natural gas directly in the cupola is not unknown but it enhances the generation of H₂O, and in a former stage H₂, which can cause further problems more downstream of the process.

The idea of preheating the blast air with natural gas is not new to the industry, but the newly reached high efficiency of our heat exchangers will make the difference.

It is the combination of these items that make Kuttner's gas fired preheaters the world leading solution for sustained success of the cupola.

Reduction of CO₂ Emissions

The benefits of heating up your blast air don't stop with increased operational efficiency. It can mean reducing CO₂ discharge plant wide, due to the fact that with the same amount of energy, a much lower amount of CO₂ is generated using natural gas.

Global Resources, Local Expertise, Make Kuttner a Smart Partner

Kuttner North America combines extensive heat exchange engineering expertise with the global technological resources of the Kuttner Group of companies. Contact Kuttner North America for single-source engineering and complete parts, service, and technical support.

Call (888) 918-4483 today for more information or a quote for your specific application.

Kuttner North America is your complete source for the planning, engineering, design, manufacture, installation, and support for state-of-the-art melt centers, gas cleaning systems, waste recovery systems, and environmental systems for many industries. Throughout our history, we have always placed a high emphasis on quality and customer care. Contact Kuttner North America for single-source engineering and complete parts, service, and technical support.