

## PRODUCTS FOR INDUSTRIAL PROCESS HEATING



### **Blasch Kiln Furniture (Beams, Plates, Posts)**

Kiln room operators and furnace engineers rely on Blasch's high-performance kiln furniture components. Custom-engineered, low-mass structural support assemblies replace traditional cast block and thick plate arrangements. Our designs and materials allow for maximum firing capacity by engineering kiln furniture around the customer's ware. Once installed, high strength, thermal-shock resistant compositions enable the plant to achieve financial performance objectives by optimizing kiln throughput, reducing fuel consumption and the need for costly replacement of existing support structures.



### **Blasch Setters and Saggars**

Blasch's unique casting process contributes to the successful application of high purity support plates and saggars for the powder metallurgical and heat treating industry. Available in a variety of premium refractory materials, these precast, tight tolerance shapes are individually engineered to fully support the customer's product during debinding and sintering.



### **Blasch Muffles and Retorts**

Reliable atmosphere and temperature resistant muffles are designed to be used in furnaces to hold product and segregate it from an undesired atmosphere. Engineered designs and materials serve to protect the product being heat treated during the full heat profile while surviving rapid ramp up and cool down cycles. Available in several thermal shock resistant materials, Blasch shape and size capability gives engineers freedom to maximize capacity and throughput.



### **Blasch Burner Nozzles**

Burner system developers continue to improve temperature, efficiency, fuel source and consumption. Blasch's shape capability, tolerance control and repeatability enables them to engineer very complex, high temperature, atmosphere-intensive burner systems. Available in several materials that thrive in oxidizing or reducing environments, our burner nozzles allow system engineers to improve heat cycles while reducing energy consumption.

With the help of Blasch's engineering expertise, many manufacturers and original equipment suppliers have successfully increased throughput and reliability of their thermal processing operations by employing advanced ceramic technology.



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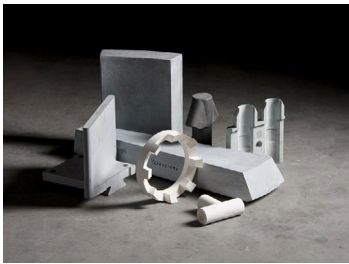
### **Blasch Element Holders and Other Shapes**

Blasch engineers help designers and process engineers control costs with refractory solutions throughout their process. Reliable, high-performance, thermal shock-resistant element holders and other shapes are custom-engineered for furnace constructions. The superior dimensional control afforded by the Blasch process results in close tolerance net shape parts like element holders, structural supports, hangers, bricks, and other ancillary parts that help minimize process variability.



### **Blasch Thermocouple Protection Tubes**

Available in several thermal shock, corrosion and abrasion-resistant materials, Blasch engineers can assist in choosing a thermocouple protection tube to fulfill customer requirements. High thermal conductivity provide system engineers rapid temperature readings, allowing them superior process control. Limitless size and shape capability, tolerance control and repeatability, gives assurance to the process engineer that the temperature reading will be consistent.



### **Blasch Reactor Vessel Linings and Components, Bubble Caps, and Tuyeres**

Plant developers continue to advance processes, temperature, efficiency, plant life guarantees and fuel sources. Blasch's virtually limitless size and shape capability enables them to engineer very complex, high temperature, abrasion and corrosion-resistant lining systems. Reactor sleeves, bubble caps and tuyeres available in several abrasion-resistant materials are far superior to metallic components or dense tiled constructions. Extend time between outage cycles and reduce maintenance downtime with Blasch pre-cast shapes.



### **Blasch Custom Shapes**

Blasch engineers can help you custom-design a product that will fit your exact requirements. With our vast shape making capability, there is no shape we can't make or provide for you. For decades, engineers and designers have come to Blasch when no one else could cast the shape that they required. The superior dimensional control afforded by the Blasch process results in closely toleranced net shape parts that are repeatable from the first part to the 1,000th.



### **Blasch Immersion Heater Tubes**

Blasch's ceramic immersion heater tubes are treated with a non-wetting agent designed as a barrier between molten materials and the internal heating element. Our immersion heater tubes are strong, thermally efficient and available in a range of sizes.