

PRODUCTS FOR HEAVY INDUSTRIAL PROCESSING



Blasch In-Line Chokes and Reducers

Blasch engineers help designers and process engineers control other costs with refractory solutions throughout their process. Reliable high performance valves and other shapes are custom engineered to convey and control fluids and gases. The superior dimensional control afforded by the Blasch process results in close tolerance net shape parts like valves, nozzles, seats, bearings and other ancillary parts that help minimize process variability for our customers



Blasch CeraLine™ Ceramic Lined Elbows

Available as a turnkey unit with steel pipe & flanges, Blasch ceramic lined elbows are engineered for unparalleled life. Blasch pre-cast tight tolerance shapes are used to line pipe with diameters ranging from one-half inch to several feet. Premature wear and interrupted flow are eliminated with CeraLine's engineered joints and smooth bore, reducing pressure drop and flow restriction.



Blasch CeraLine™ Pipe and Spool Linings

Blasch's unique casting process contributes to the successful application of smooth bore abrasion-resistant pipe linings. Pipe diameters ranging from 1/2" up to several feet can be lined with Blasch pre-cast tight-tolerance shapes available with engineered joints and smooth bore that eliminates premature wear and interrupted flow. Available in a variety of premium refractory materials and complete turnkey units with steel pipe and flanges, these systems are individually engineered and offer unparalleled life and ease of installation.



Blasch FGD and Ceramic Spraying Nozzles

The Blasch nozzle is designed for use in the Power Generation emission industry. FGD and spray nozzles are made in a wide variety of silicon carbide materials including NITRON™ and OXYTRON™. Blasch NITRON and OXYTRON nozzles have been used successfully in numerous applications such as gas cooling, NO_x, SO_x and particulate removal, atomizing, vortexing, spraying, injecting and combustion; all involving a broad range of shapes and sizes. Threaded, flanged and various other mounting configurations are available as well as combined with a metallic assembly.



Blasch Abrasion-Resistant Valves and Components

Blasch helps designers and process engineers control costs with refractory solutions throughout their process. Reliable high performance valves and other shapes are custom engineered to convey and control fluids and gases. The superior dimensional control afforded by the Blasch process results in close tolerance net shape parts like valves, nozzles, seats, bearings and other ancillary parts that help minimize process variability.

Blasch abrasion, corrosion and high temperature-resistant technologies are deployed in key applications at some of the newest and most advanced heavy industrial processing projects in the world, often replacing a metallic component and reducing costs.



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Blasch SiClone™ Cyclone Separators, Scroll Inlet, Diplegs, and Dust Bowl Linings

Blasch high-performance, monolithic, drop-in replaceable ceramic liners are engineered for cyclone applications up to several feet in diameter and are designed for highly abrasive 1st, 2nd, or 3rd stage separators. With a variety of highly abrasion-resistant compositions available, we can engineer a tile lining for scroll inlets or 1 piece cone and sleeve sections out of refractory that exceeds 1.5cc loss (per ASTM C-704). Our engineers can assist both licensors and single refineries achieve financial performance objectives by optimizing separating efficiencies, maximizing cyclone life, reducing emissions, and lowering catalyst losses.



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 Burner and CFB Nozzles

Burner system developers continue to improve temperature, efficiency, fuel source and consumption, and 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 help improve heat cycles while reducing energy consumption.



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.