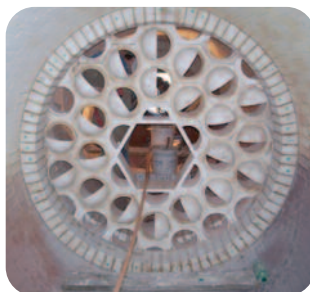


## PRODUCTS FOR CHEMICAL PROCESSING



Blasch has significant expertise in high temperature processes within the refinery including two decades of experience in sulfur recovery. We have developed a number of patented systems that have redefined refinery refractory applications and continue to improve processes and lower costs worldwide.



### Blasch **VECTORWALL**™ Mixing System

**OPTIMIZE YOUR PROCESS USING OUR ADVANCED MIXING SYSTEM** – This system utilizes the same blocks as the proven checkerwall system, but incorporates a series of add-on flow vectoring shapes designed to direct gas flow at the exit of the checkerwall into any of a series of flow patterns to include single, double, and multiple vortices, preferential flow directions, or converging or diverging flows. Computational fluid dynamics support is available. Process improvements on the order of 50% yield increases have been experienced with the addition of the Blasch VectorWall to some reaction furnaces.



### Blasch **STABLOX**™ SMR Tunnel System

**INTRODUCING A NEW, MORE RELIABLE APPROACH TO REFORMER FLUE GAS TUNNELS** – The Blasch StaBlox Tunnel System is a versatile, mechanically stable, patent-pending system consisting of a series of stackable, interlocking blocks. The StaBlox system allows for an extremely fast, easy installation while at the same time offering a much higher level of reliability with customizable blocks and highly engineered, mortar free expansion joints.



### Blasch Precast **FERRULES**

**PRECISION ENGINEERED PRECAST FERRULES FOR WASTE HEAT BOILERS** – The Blasch family of precast ferrule systems provides more effective protection and allows for much greater design flexibility than traditional cast refractory systems because the structural and insulating functions are separated, and are addressed by the cast shape and the fiber backup respectively.



### Blasch **ALTRON**™ Air Grid Nozzles

**CERAMIC AIR GRID NOZZLES FOR THE FLUID CATALYTIC CRACKING UNIT** – Engineered ceramic/metal assemblies can be welded in place of existing steel nozzles giving engineers freedom to worry about other parts of their FCCU turnaround. Once installed, Blasch's highly abrasion resistant FCC Air Grid Nozzles far outlast traditional high alloy steel or even other ceramics, making it easier to achieve financial performance objectives by optimizing catalyst efficiencies, maximizing cat cracker life and eliminating costly maintenance/ replacement costs traditionally found in metallic components.