

Refractory Systems | **HYDROCARBON PROCESSING  
INDUSTRY**



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## Refractory Systems for the Hydrocarbon Processing Industry

The hydrocarbon processing industry, oil refineries and chemical industry demand high-grade and high performance refractory products.

Many years ago STEULER-KCH began its commitment to the petro- and chemical industry; with its focus on progress, providing clients to optimise their operational processes with efficient and long lasting refractory solutions.

As a key partner STEULER-KCH with its devotion to the knowledge, is well informed about the chemical processes and the specifications and is approved by several licensors. It is serving this industry as a global active industrial group, supported by customer orientated workforces.

The large indefinite amount of processes and the variety of operating conditions demands an extensive high quality range of products:

-  **Refractory bricks**
-  **Light weight-insulating bricks**
-  **Mortars and prefab shapes**
-  **Monolithics and fibre lining systems**
-  **Back-up fillers**
-  **Anchoring**
-  **Corrosion protection Systems**
-  **Checker-/Matrixwalls**
-  **Tube-sheet covering and boiler-tube inserts**

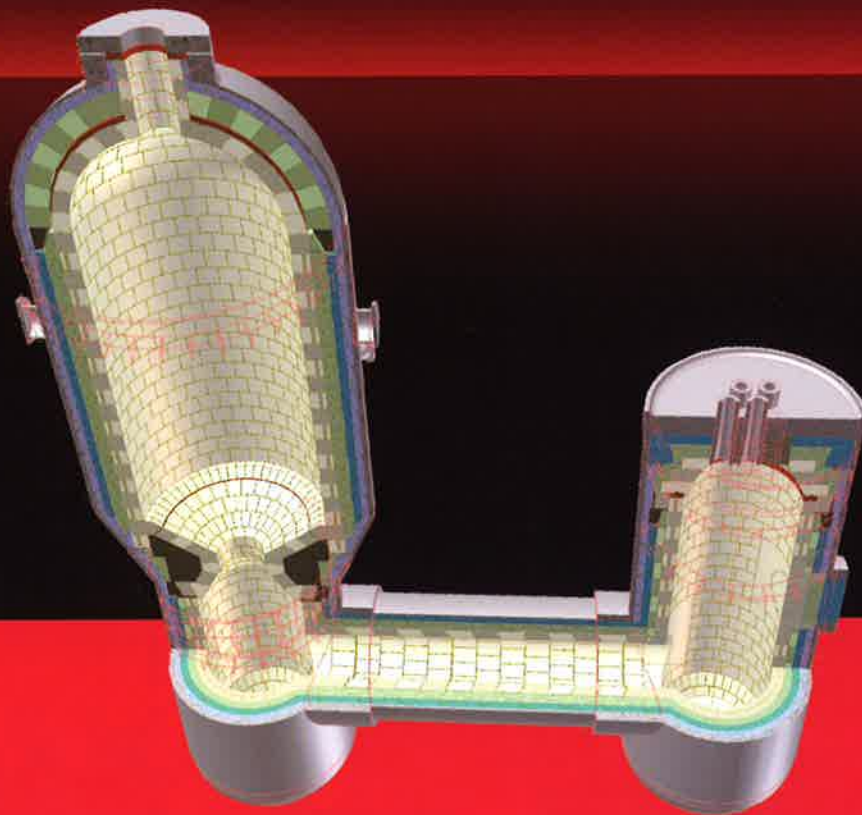
Qualities based on fireclay, bauxite, andalusit, mullite, corundum and chromium -corundum raw materials, up to 99%  $Al_2O_3$ .



Site view of the horizontal chamber and waste heat boiler with the vertical cracking chamber



Multi-layered brick lining of a sulphuric acid cracking plant



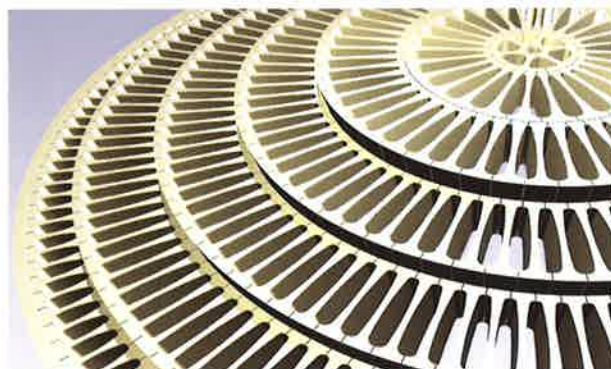
STEULER-KCH designs, manufactures, delivers, installs, inspects and supervises these high-grade refractory linings in many petro- and chemical applications such as:

- Incinerators and gasification reactors for gaseous and liquid waste, coal waste and heavy oils
- Synthetic gas processing equipment such as heaters, boilers, reformers, secondary reformers, cold collectors and waste heat boilers. Pox, GTL and COpox reactors for the production of hydrogen, CO, ammonia and methanol

- Sulphur recovery units (SRU) incl. Claus reactor, burner and combustion chamber, sulphur furnaces, spent acid recovery (SAR), sulphuric acid cracking and tail gas treatment
- Carbon black reactors for soft and hard carbon
- FCC units incl. reactor, riser, stripper, regenerator and stand-pipes
- Coke,- pet coke calciners, - rotary calcining kilns for thermal upgrading of green-, raw petroleum coke. incl. new lifter design
- Catofin for the production of isobutylene, propylene etc. in a fixed bed reactor with catalyst



Multi-layered brick lining of horizontal burning chamber



Selfsupporting brick dome confirms strict specification



**Alphaplast S.A.**  
Spain

**CIMA S.r.l.**  
Italy

**Ditescor S.A. de C.V.**  
Mexico

**Shanghai STEULER-KCH  
Anticorrosion Engineering  
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Spain



Together with its international subsidiaries and representatives, STEULER-KCH offers its customers a worldwide network which develops and implements comprehensive system solutions.



**SURFACE PROTECTION**  
Lining and flooring systems  
Cements, jointing materials,  
brick and rubber linings

**PLASTICS ENGINEERING**  
Equipment, piping and tanks made of  
duroplastics and thermoplastics  
Thermoplastic lining systems

**REFRACTORY SYSTEMS**  
High temperature refractory linings

**POOL CONSTRUCTION**  
STEULER-Q<sup>2</sup>-System



Siershahn site



Höhr-Grenzhausen site

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