



Refractory Systems | **HYDROCARBON PROCESSING
INDUSTRY**



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:

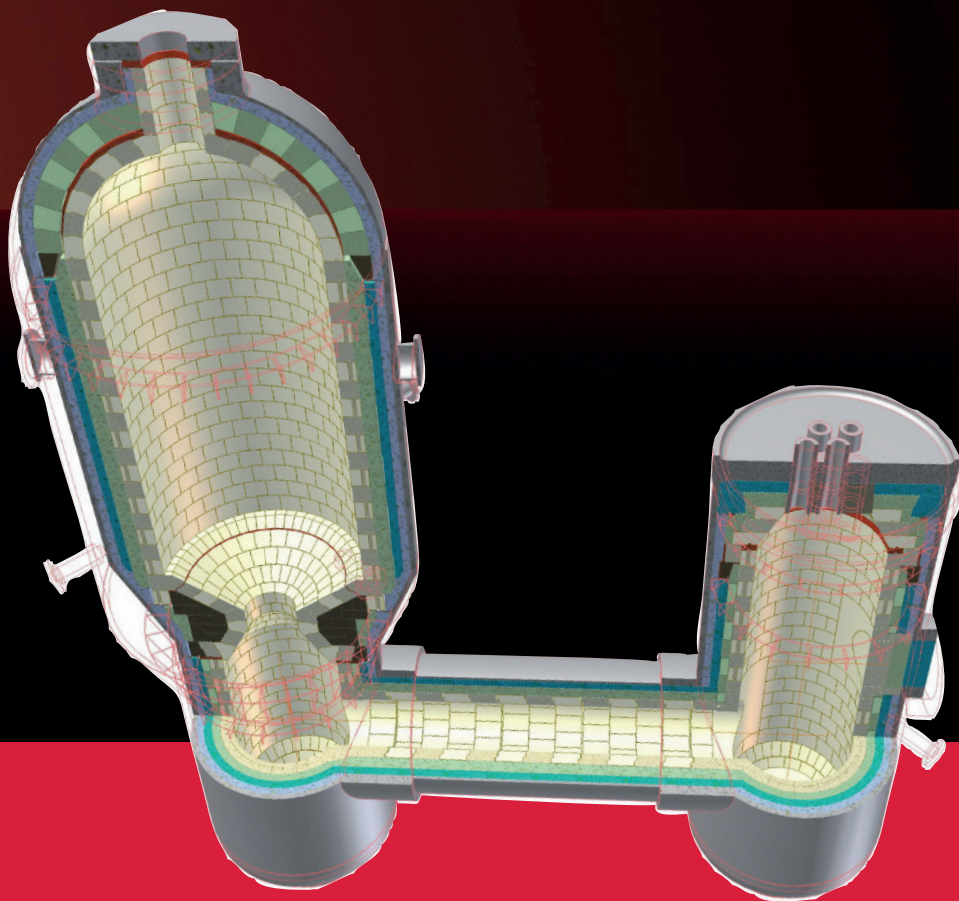
- **Refractory bricks**
- **Mortars and prefab shapes**
- **Monolithics and fibre lining systems**
- **Light weight-insulating bricks**
- **Back-up fillers**
- **Anchoring**
- **Corrosion protection Systems**
- **Checker-walls**
- **Tube-sheet covering and boiler-tube inserts** in qualities based on bauxite, andalusit, mullite, corundum and chromium –corundum raw materials, up to 99% Al₂O₃.



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



Above: Multi-layered brick lining of the horizontal chamber with the torospherical head connection to the vertical furnace of a sulphuric acid cracking plant



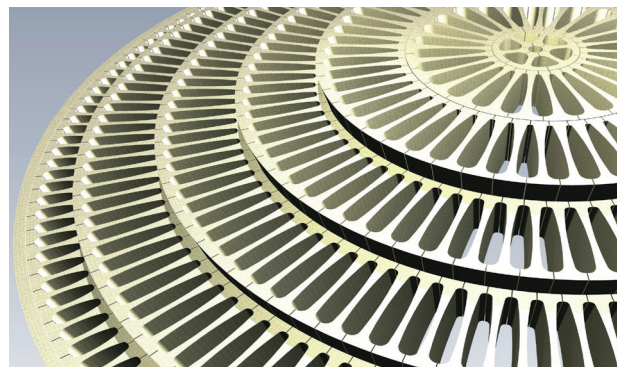
STEULER-KCH designs, manufactures, delivers, installs, inspects and supervises these high-grade refractory linings in many petro- and chemical applications such as:

- 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



Above: Multi-layered brick lining of the horizontal chamber with the torospherical head connection to the vertical furnace of a sulphuric acid cracking plant



Above: Multi-layered brick lining of the horizontal chamber with the torospherical head connection to the vertical furnace of a sulphuric acid cracking plant



Steuler Técnica S.L.
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Steuler France S.A.R.L.
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Mexico

Steuler Maroc S.A.R.L.
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Alphaplast S.A.
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Steuler Nordic AB
Sweden

**Shanghai STEULER-
KCH Anticorrosion
Engineering Co. Ltd.**
China

CIMA S.r.l.
Italy

KCT Sp. z o.o.
Poland

**Steuler Industrial
Corrosion Protection
Pty. Ltd.**
Australia

**Steuler New Caledonia
S.A.R.L.**
New Caledonia

STEULER-KCH
Branch Saudi Arabia

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Branch Austria



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



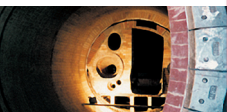
SURFACE PROTECTION SYSTEMS

Lining and flooring systems
Cements, jointing materials, masonry systems,
rubber linings



PLASTICS TECHNOLOGY

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



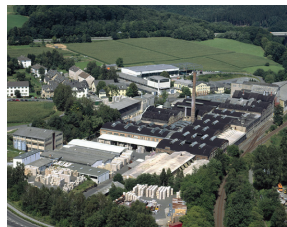
REFRACTORY SYSTEMS

High temperature refractory linings



POOL CONSTRUCTION

STEULER-Q⁷ lining systems



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Focus on Progress