



HUGO PETERSEN GmbH  
**SULPHURIC ACID**

**HUGO PETERSEN**

**Selection of references**

Customer, Country	Location	Capacity m <sup>3</sup> /h	Process
Cinkarna Celje d.d. Slovenia	Celje	650 t/d	Sulphur
Crimea Titan CJSC Ukraine	Armyansk	1818 t/d	Sulphur
BASF Antwerpen N.V. Belgium	Antwerp	1200 t/d SO <sub>3</sub> Oleum	Sulphur
SADACI N.V. Belgium	Ghent	200 t/d	MoS <sub>2</sub> -Roasting
Fortum / YARA Finland	Siilinjärvi	700 t/d	Pyrrhotine roasting gases from fluidized bed by S-Burning

HUGO PETERSEN – a subsidiary of CAC – is an engineering company based in Wiesbaden. Many years of experience in plant engineering and construction, especially for sulphuric acid, hydrochloric acid and gas cleaning technology, ensure competent knowledge in a wide field of applications.

HUGO PETERSEN offers turn key plants starting with the consulting up to the start-up with commissioning. Existing plants can be reengineered and revamped.

Our process technologies for the production of oleum and sulphuric acid of high grade are well proven in several plants all over the world.

#### Specific characteristics

Centurial history in Sulphuric Acid Manufacturing

Wide Experience in the different Sulphuric Acid Technologies:

- Dry Catalysis
- Wet Catalysis
- Nitrogen Oxide Technologies
- Wet Scrubbing Oxidising

Technology is BAT-level  
(Best Available Technology)

Expressively environmental protective

Lowest SO<sub>3</sub> and H<sub>2</sub>SO<sub>4</sub> emissions in off-gases

Low pressure drop of the plant

Flexible variable production of H<sub>2</sub>SO<sub>4</sub> from low and high strength SO<sub>2</sub>

Application of proven materials of highest quality

High yield energy recovery from conversion- and absorption section

Energy utilization of the steam in optimal form under avoidance of energy losses

Technologies with low energy consumption

Tail gas cleaning ensures lowest emissions

Wide experience in project execution from EPCM to EPC for Revamp and Grass-Root-Plants.

Integrated Quality Management System (IQMS).

Supply of the world-wide largest oleum plant for a market leader in the chemical industry.

#### HUGO PETERSEN developed systems:

Quenchers, Absorption Towers

Jet Scrubbers

Wet Electrostatic Precipitators

Activated Coke Filter

Catalytic Gas Treatment Systems

SCR of NO, NO<sub>2</sub>, N<sub>2</sub>O

Sulphur-Oxy-Reactor

Stainless Steel Converter

Radial-Flow- or Shell and Tube Heat-Exchanger

Gas / Gas Plate-Heat-Exchanger

Acid-Distribution-Systems

Super<sup>OX</sup>

Super<sup>CO</sup>

THRC - Total Heat Recovery Concept

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**HUGO PETERSEN**

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ALWAYS AN IDEA AHEAD