

Sulphur Burning Acid Plants



Combining Worley Chemetics' suite of sulphuric acid innovations, our Sulphur Burning Acid Plant technology brings **state-of-the-art safety, reliability and superior economic performance** together, in a full scope package.

CUSTOM FIT SCOPE FOR YOUR NEEDS

- Worley Chemetics' innovative equipment including converters, exchangers, towers, furnaces, sulphur melting/filtering designed to ensure a reliable and robust facility.
- Maximum heat recovery is made available through steam, hot water and desalination for full economic potential.
- Safe and sustainable environmental performance is achieved via low emissions designs, with industry's highest mechanical integrity.
- Project planning is optimized through feasibility studies, global logistics, construction advisory and financing support.
- End-to-end solutions and technology from process design packages through to full EPC execution.
- Full plant life cycle support provided with technical and inspection services, training, debottlenecking and sustaining capital expertise.

ABOUT US

Sustaining our world for generations to come through technological and environmental innovation, Worley delivers Chemetics® sulphuric acid solutions around the globe with a focus on site reliability, plant economics and workforce development.

Over the past 60 years, Worley Chemetics' full lifecycle solutions and equipment have enabled more than 800 plants to achieve higher capacities and availability, lower costs of operation, reduced emissions and greater safety. Leveraging our R&D lab and custom-built fabrication facility in Canada, global logistics management capabilities, specialized project teams and worldwide network of trusted suppliers, we deliver optimal solutions and equipment for your sulphuric acid facility, from greenfield projects to maintenance and turnarounds.



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FEATURES & BENEFITS

Full range of Worley Chemetics innovative equipment and technology

- **Sulphur Furnaces** – This robust design features a hot shell, Worley Chemetics sulphur automatizers, zero baffles and swirl air injection for enhanced mixing and dual-saddle support to ensure long term refractory integrity.
- **Acid Towers** – Brick-lined or SARAMET® alloy options are designed to meet required plant performance in complete range of plant operating modes. Enhanced reliability is achieved through careful consideration of common failure points, particularly in the hot/wet mixing zones. All towers include our ISO-FLOW® Distributors with SWIFT-LOCK™ for consistent tower performance and ease of maintenance.
- **Converter** – Worley Chemetics' patented all welded stainless steel radial flow converter eliminates the common failure points in the conventional converter while minimizing pressure drop. Internal heat exchangers and superheaters are available to minimize plant footprint, reduce cost and provide better plant reliability. The Worley Chemetics CORE-S™ converter can be provided as an option for full or partial oxygen-based plants.
- **Gas-Gas Exchangers** – Worley Chemetics' patented radial flow gas-gas exchangers combine efficient use of the tube area with low pressure drop, reduced thermal expansion stress and long term reliability.
- **Acid Coolers** – Worley Chemetics' original ANOTROL® anodically protected stainless steel cooler or SARAMET alloy cooler options include a suite of solutions and technology, such as CIRAMET® seawater coolers, energy recovery options and a dedicated acid cooler service team.
- **Sulphur Supply** – Liquid and solid sulphur melting and filtration systems produce consistent raw material feed. Improved filtration to maximize campaign cycles.
- **Energy Recovery** – CES-ALPHA™, CES-BFW™ and CES-DSW™ options capture the heat of absorption to generate steam or desalinated water. CES-ALPHA™ safely combines steam generation with simplicity of operation, plant operational flexibility and robust reliability.
- **Emission Control** – Single Contact, Double Contact and CORE-SO2™ acid plants designed to exceed statutory emission requirements. Optional tail gas treatment solutions (Catalytic, Chemical or Regenerative) to handle plant upsets or achieve ultra-low emissions.

Full lifecycle support

- **Engineering services to get the project going** – From initial concept and economic feasibility studies, to basic and detailed engineering, our disciplines work together to support the development of the project.
- **End-to-end solutions to get the project built** – From project management and global logistics, to EPC delivery and EPCM partnerships, we ensure the project gets completed on time and on budget.
- **Long term support** – Acid cooler services, plant inspection services, debottlenecking, sustaining capital projects and specialty engineering technical services are just a few of the things we provide to support your long term maintenance needs and future expansion plans.

Newly completed plant in Central Africa



4,500 MTPD plant under construction