



SOLUTIONS for odour control
and **GAS** treatment and for
storing and pumping corrosive
FLUIDS

TECNIUM[®] 
INDUSTRIAL PROCESSES SOLUTIONS SINCE 1957



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WHO ARE WE?

TECNIUM's objective is to meet the needs of clients by offering services and products which have been proved effective, with the aim of contributing to the welfare of society by improving and conserving the environment.

Our strategy is based on offering solutions in two main areas:

- Pumping and storing corrosive fluids.
- Air pollution control.



Global solutions for
handling corrosive
fluids and preventing
air pollution

WELCOME TO A WORLD OF PROVEN SOLUTIONS



A HISTORY LINKED TO TECHNOLOGY

Founded in 1957 in Manresa, Barcelona, TECNIUM has always stood out as a pioneer in researching and developing high-quality and high added-value products and services for industry and administrations.

Based on its position as a technological leader, built up from its in-house know-how, TECNIUM's equipment and solutions are present in every continent. They demonstrate high levels of reliability and efficiency.

GLOBAL REACH

With facilities of more than 15 000 m² and a team of professionals and industry experts, TECNIUM has all the resources to undertake projects for handling corrosive fluids, emissions of gaseous pollutants and odour treatment. Thanks to its own engineering department, its manufacturing capacity and its team of specialists in assembly and start-up, TECNIUM offers turnkey solutions all over the world.

More than 1 000 international references confirm the advantages and security that come from working with TECNIUM.



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Integrated odour control solutions using technologies such as biofilters, biotrickling, chemical scrubbers, activated carbon, RTO and advanced adsorbents

Odour capture and treatment with flow rates of over 500 000 m³/h

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Odour control by biofilter in a municipal wastewater treatment plant.



Modular covers in a municipal wastewater treatment plant.



TECNIUM SOLUTIONS FOR ODOUR CONTROL IN MUNICIPAL SOLID WASTE PLANTS AND WATER TREATMENT PLANTS

Despite being two different sectors, both share the problem of odour emissions, which have to be treated and eliminated.

Water treatment plants: TECNIUM is the ideal supplier to undertake plant deodorization, since it offers an integrated solution including odour removal, scrubbing of other gaseous pollutants, modular covers, reagents storage and pumping of corrosive fluids. TECNIUM is also present in potable water and desalination plants, providing appropriate solutions to each project's needs.

Municipal solid waste treatment plants (MBT):

From design to installation and start-up, TECNIUM has the experience and capacity to undertake major turnkey projects on odour elimination and ventilation systems.

Enclosures, captures and stacks: The first stage in odour control is always to confine, capture and minimise the sources. TECNIUM has all the resources necessary for this task and can supply modular covers, capture and ventilation networks, and stacks.



Odour control by chemical scrubbers in a municipal wastewater treatment plant.



Humidification system for odour control in a municipal waste treatment plant.



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More than 60 years'
experience offering
environmental solutions

Process engineering and
facilities serving industry

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Emissions control in a chemical plant using chemical scrubbers.



Emissions control using biotrickling in the paper industry.



TECNIUM SOLUTIONS FOR ODOUR AND GAS EMISSION CONTROL FOR A RANGE OF INDUSTRIES

Although each industrial sector has its own challenges, they nearly all share the need to control emissions of gaseous pollutants.

After decades of offering environmental solutions for a wide variety of industrial processes, TECNIUM is one of the leading and most experienced companies in capturing and cleaning gaseous emissions, odours and dust. From the process engineering to the manufacturing, installation and start-up of the equipment, TECNIUM stands for a guarantee of reliability and efficiency.

TECNIUM is active in a broad spectrum of sectors that confirm the capacity and potential of the solutions it offers:

- Chemicals
- Fine chemicals
- Metallurgy
- Fertilizers
- Rendering
- Energy
- Manure
- Paper
- Mining

Despite the specifics of each industrial process, TECNIUM has the know-how and experience necessary to offer suitable solutions to each need. These solutions are spread all over the world under TECNIUM's quality and efficiency label.



Cleaning of gases from chrome-plating tanks for parts used in the aerospace industry.



Dedusting and gas-cleaning facilities in the fertilizer industry.



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Design and construction
of tanks with capacity
from 500 to 200 000 l

Vertical tanks, cisterns,
reactors, decanters,
rectangular barrels,
underground tanks

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Double-walled tank.



Reactor for the chemical industry.



TECNIUM SOLUTIONS FOR STORING DANGEROUS/CORROSIVE FLUIDS

TECNIUM has built up more than 60 years' experience responding and meeting all its clients' needs in everything related to the storing of dangerous and/or corrosive fluids.

Fully aware of the reliability and security guarantees that these kinds of construction must offer, TECNIUM follows the most stringent international calculation and construction standards (EN, ASTM, ASME, ASCE, UIC and API) to design, manufacture and install all kinds of vessels, manufactured from a wide range of materials including GRP,

thermoplastics and dual laminates (PP, PE, HDPE, PVC, C-PVC, PVDF, E-CTFE and FEP). Moreover, all these designs can be certified for installation in explosive atmospheres (ATEX).

With a very wide range of equipment including tanks, reactors, barrels, covers, special solid plastic valves and a variety of accessories, TECNIUM has turned into a leading global supplier thanks to numerous references in every continent.



Tank units in line with the Spanish regulation on chemicals storage (APQ).



Corrosive liquids storage farm.



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Excellent for pumping HCl, NaOCl, H_2SO_4 , NaOH, HNO_3 , HF, $FeCl_3$, $Al_2(SO_4)_3$, PAC, H_3PO_4 , H_2SiF_6 or NH_4NO_3 and for the chemicals industry, water treatment, fertilizers, mining, metallurgy and surface treatment

High performance and maximum reliability. Up to 1 500 m³/h and suitable for pumping corrosive products with fumes and solids, with models that specifically permit dry runs

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Motor pumps for reagents transfer in the chemical industry.



Process pump complying with EN-ISO 22858 in an uranium mine.



TECNIUM SOLUTIONS FOR PUMPING DANGEROUS/CORROSIVE FLUIDS

TECNIUM's own in-house engineering division offers advice, design and manufacturing for plastic pumps makes it one of the leaders in pumping of corrosive fluids.

We have a wide range of products focusing on solving numerous chemical and metallurgical processes problems based on an extensive catalogue of centrifugal pumps, both horizontal and vertical, made of thermoplastics (PP, UHMW-PE, PVDF, E-CTFE, PVC and PTFE) or GRP.

In addition to the usual applications in these kinds

of industry, we offer specific solutions for the mining and fertilizer industries, in the form of systems which have a proven efficiency, as confirmed by numerous references from all over the world.

TECNIUM pumps are manufactured using the latest production techniques. Strict quality standards makes them stand out for their operational reliability and their sturdiness. Guarantees very long product lives and easy maintenance.



Vertical sump pumps in a chlor-alkali plant.



Vertical pump for corrosive liquids in a fertilizer plant.



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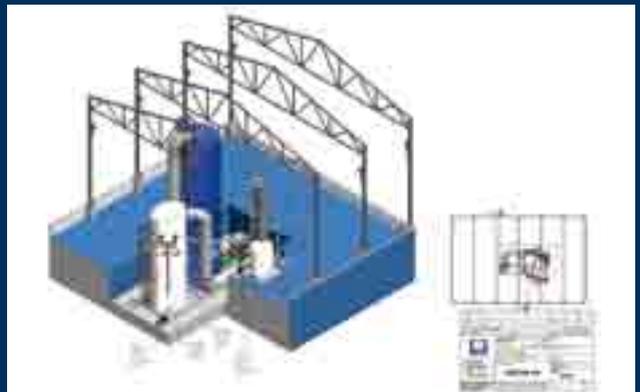
TECNIUM acts as a strategic and technological partner for engineering, sharing the same objectives and the same demands

We promote co-creation with the aim of establishing and maintaining permanent collaboration links

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Engineering and supply of retractable covers for wastewater treatment plants.



3D design and calculation by finite elements method.



TECNIUM

A PARTNER FOR ENGINEERING

TECNIUM has long experience of implementing projects for engineering departments, turning us into an extension of their resources with the aim of adding value to the design and execution of their projects.

The combination of our technicians' high degree of specialization, our flexibility, our experience confirmed by countless references from all over the world, as well as transparent communication, allow us to establish trusting relationships so that we can work together with engineering studios,

technical offices and the engineering departments of major companies, such as TECHNIP, JACOBS, TECNICAS REUNIDAS, VEOLIA, DEGREMONT, WORLEY PARSONS, ACCIONA, OHL, etc., fully complying with their methods and adapting to their demands and requirements.

This allows us to collaborate with engineering departments all over the world to implement projects focusing on environmental compliance, which include design, construction and maintenance of facilities for a wide variety of industries.



Complete turnkey plant for NaOCl production.



Aerodynamic study of air and ventilation network and odour control equipment.



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Innovation, teamwork, professionalism, international vision, customer orientation and leadership are the corporate values behind our day-to-day work

In TECNIUM, we believe in innovation as the driving force behind progress. This is why we are continuing our research into new technologies to answer new challenges

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TECNIUM facilities in Manresa, Barcelona.



A pioneer company since 1957.



TRUST TECNIUM - A GOOD DECISION!

FOR ITS EXPERIENCE. Since 1957 we have been meeting all industry's needs in connection with corrosive fluids and gaseous emissions.

FOR ITS TECHNOLOGY. Constantly evolving applications, efficient solutions and new technologies thanks to a team of highly qualified engineers and technicians.

FOR ITS PRODUCTS. 1 200 m² of offices and 15 000 m² of modern production facilities that enable us to design and manufacture our own equipment and products.

FOR ITS QUALITY. Reliability and security thanks to

following and complying with the most demanding international standards.

FOR ITS SERVICE. Interdisciplinary teams of professionals that accompany clients in their quest for solutions that generate value and confidence.

FOR ITS GLOBAL PRESENCE. International network of subsidiaries and partners that allow us to supply our products and services all around the world.



Innovative solutions to specific problems.



We are always there.



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FC 9000 Ed. 09/2014

