

FILTRATEC®

WORKING FOR THE FUTURE

We filter for you!



> FILTRATEC

Specialist for treating and dewatering
industrial sludge

filtratec.com

Why you should opt for FILTRATEC!

The main aim of dewatering sludge is to separate the solids and liquid – and possibly oil – from each other in order to reduce the volume of waste. FILTRATEC is able to offer its customers a number of other advantages as well.

Our equipment is designed to meet the high expectations of our industrial customers. After all, that is our area of expertise!

1 A specialist for industrial work
We specialise in the often complex and heavy-duty tasks needed by industrial businesses – our robust units have been designed to cope with just such challenges:

- Our filter presses have solid bridge beams making them ideal for filtering heavy sludge, for instance, sludge containing metals
- Acid-resistant and explosion-proof units make it possible for us to treat hazardous sludge and liquids

2 Extremely cost effective
Dewatering sludge on site often costs less than having to send the material away for treatment. What's more, you don't need to deploy your own staff or tie up capital – as you don't have to invest in setting up and expanding your own facilities. Moreover, you benefit from lower waste disposal costs and higher recovery rates.

3 Maximum flexibility
Using mobile equipment to treat substances at the place they are actually generated considerably reduces the volume of waste and, as a result, waste transport costs. Other benefits:

- We can handle large-scale projects as we can combine and operate several different units at once
- All services are provided by just one company – and, if you require, we can manage the disposal of the solid waste
- No task is too big or too small – our units can treat volumes of sludge ranging from < 10m³ to well over 10,000m³

4 Guaranteed availability
If you wish, we can guarantee 100 percent availability by designing the mobile/stationary units with additional components to cover all eventualities.

5 Great reliability
Our units are only ever operated by experienced and well-trained personnel.

6 Sustainable environmental protection
We achieve high recovery rates. Raw materials, for instance oil, can be fed to recycling, which reduces the environmental impact.

7 ATEX-compliant, three-phase separation
One of the main requirements of, for example, the petrochemical industry, is for its service providers to deploy explosion-proof measures in line with the ATEX Directive. FILTRATEC has mobile gas-tight three-phase decanters – designed and built by ourselves!

> Meticulous analysis and testing work

Before deploying its teams, FILTRATEC first analyses the material in its own laboratory to examine the contents and determine how it can best be treated. What is the solid content? How much water is in the mixture and, if applicable, how much oil? Will filtering agents be needed? Does water have to be added? By preparing for projects in this way, we can guarantee the best results: maximum solid content in the filter cake and a filtrate completely free of solids.



The main aim of sludge dewatering is to reduce the volume of waste material and increase product yield – the better the formula, the more effective the separation process



> SERVICES

Sludge dewatering with filter presses, oil-sludge separation with three-phase decanters

FILTRATEC provides its industrial customers with a whole range of mobile services: dewatering sludge, separating solids and liquids, treating sludge and wastewater as well as filtering products. These are the areas we specialise in and these are the tasks our teams of well-trained operatives carry out every single day – equipped, of course, with the latest technology.

Mobile chamber filter presses

We use chamber filter presses to perform mechanical sludge dewatering tasks. This technology produces compact filter cake as well as a solid-free filtrate. We operate various different types and sizes of chamber filter presses to enable us to offer our customers the most cost-effective service:

- Filter surface: 60m² – 350m²
- Chamber volume: 0.6m³ – 5m³

Mobile membrane filter presses

Our membrane filter presses are deployed when the filter cake should contain the highest possible amount of solids. This equipment also allows the sludge/filter cake to be washed. We are also able to supply acid-resistant mobile membrane filter presses. The following types and sizes are available:

- Filter surface: 90m² – 400m²
- Output Chamber volume: 1.2m³ – 6.1m³

Mobile gas-tight decanters

FILTRATEC operates mobile gas-tight three-phase decanters to separate combustible and harmful substances from each other – such as crude-oil sludge, slop residue and sludge containing solvents. The units we use to transport the sludge are fully compliant with the ATEX Directive and covered with nitrogen at all times. Sludge and combustible liquids can be treated without risk, no matter what their flashpoint. By doing so, we achieve the highest safety standards – preventing explosions and protecting human health and the environment.



Mobile units can also be used to treat large volumes of sludge – in some cases, we can produce up to 300t of filter cake per shift



One of FILTRATEC's specialities: Mobile gas-tight three-phase decanters



Our mobile sludge dewatering units are operated on-site by our own qualified personnel



FILTRATEC's gas-tight decanters cannot create their own explosive zone as they are covered in nitrogen. The three phases (oil, water and solids) are produced in one single step

Experts for special tasks

We also specialise in more complex tasks that go far beyond simply dewatering sludge. To be able to do this, we deploy a wide range of equipment including:

- Storage, mixing and process vessels (able to hold up to 300m³)
- Preparation and dosing units to condition sludge
- Screening units and separators to pre-treat and fractionate suspensions
- Pump, conveyor and transfer units
- Agitators, heat exchangers and air washers

From recovering sludge, to treating and filtering individual batches, all the way through to treating wastewater and organising the transport and disposal of solid waste – we filter for you!

In action throughout Europe

Our teams are on the road every day – operating our mobile filter presses, decanters and auxiliary equipment across the whole of Europe. Depending on the project, their work can last anywhere from just one day to up to several months. No matter whether the job involves a turnaround, a breakdown or an emergency – we are there whenever we're needed.

> Sludge extraction with floating suction dredges

FILTRATEC operates floating suction dredges equipped with cutting devices to dislodge sludge and sediment found below standing water. Pumps are then used to remove the sludge and sediment, feeding the material to the treatment unit via floating tubes.



Your industrial sludge experts

Be it just the once, at regular intervals or on a permanent basis: we filter for you. To the very highest standard!

FILTRATEC specialises in both dewatering sludge and separating oil sludge for industrial companies. Equipped with a wide range of machinery, we are able to handle this complex work, no matter what the challenge. Our customers have been using our services for more than 40 years now and primarily come from the chemical and petrochemical industry, the iron and steel sector as well as the construction and waste management industry.



We not only plan, build and operate stationary sludge dewatering and oil sludge separation units – we even fully finance them



A full range of services

FILTRATEC uses a variety of dewatering units including chamber and membrane filter presses as well as three-phase decanters. We also deploy auxiliary equipment such as suction dredgers, modular screening devices and reaction tanks. Moreover, by collaborating with other companies from our group, we can offer additional services such as the disposal of waste.

Sludge dewatering

Our services are suitable for a whole variety of applications:

- on a permanent basis, so customers do not need to invest in expensive machinery
- when a customer's unit breaks down
- to cover peak periods
- to handle small amounts of sludge
- during turnarounds and cleaning work
- to inspect and improve the processes in place
- to safeguard investments

We assist our customers during major projects by setting up temporary full-scale chemical-physical treatment units – made up of our mobile and modular equipment and assembled within no time at all.

Mobile or stationary

Together with you, we take a close look at your set-up to decide whether a mobile or a stationary unit is the better option for your business. If you wish, we can also plan, build, operate and finance it on your behalf – whilst always making the very most of our 40+ years of expertise and experience in dewatering and filtering sludge.

Specialist for emergencies

FILTRATEC has a large stock of very different kinds of mobile sludge dewatering units and auxiliary equipment. We are, therefore, able to react quickly if you are faced with an emergency – e.g. if your own unit breaks down – and supply you with as many units as you need.

Priority on quality and safety

Our quality management system (based on EN ISO 9001) and our safety management system (as per SCC[®]) ensure we always meet our customers' quality and safety requirements.

> We treat the following types of sludge

- Sludge from crude oil or slop oil tanks
- Sludge from chemical processes
- Sludge from removing particulate matter from furnaces, converters and foundries
- Sludge from air preheaters, tanks and pipes
- Sludge from wastewater treatment
- Sludge from surface drainage
- Sludge and sediment from lakes and rivers



WORKING FOR THE FUTURE

FILTRATEC is part of the REMONDIS Group, one of the world's largest recycling, service and water companies. The company group has more than 500 branches and associated businesses in 34 countries across Europe, Africa, Asia and Australia. With over 30,000 employees, the group serves around 30 million people as well as many thousands of companies. The highest levels of quality. Working for the future.

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