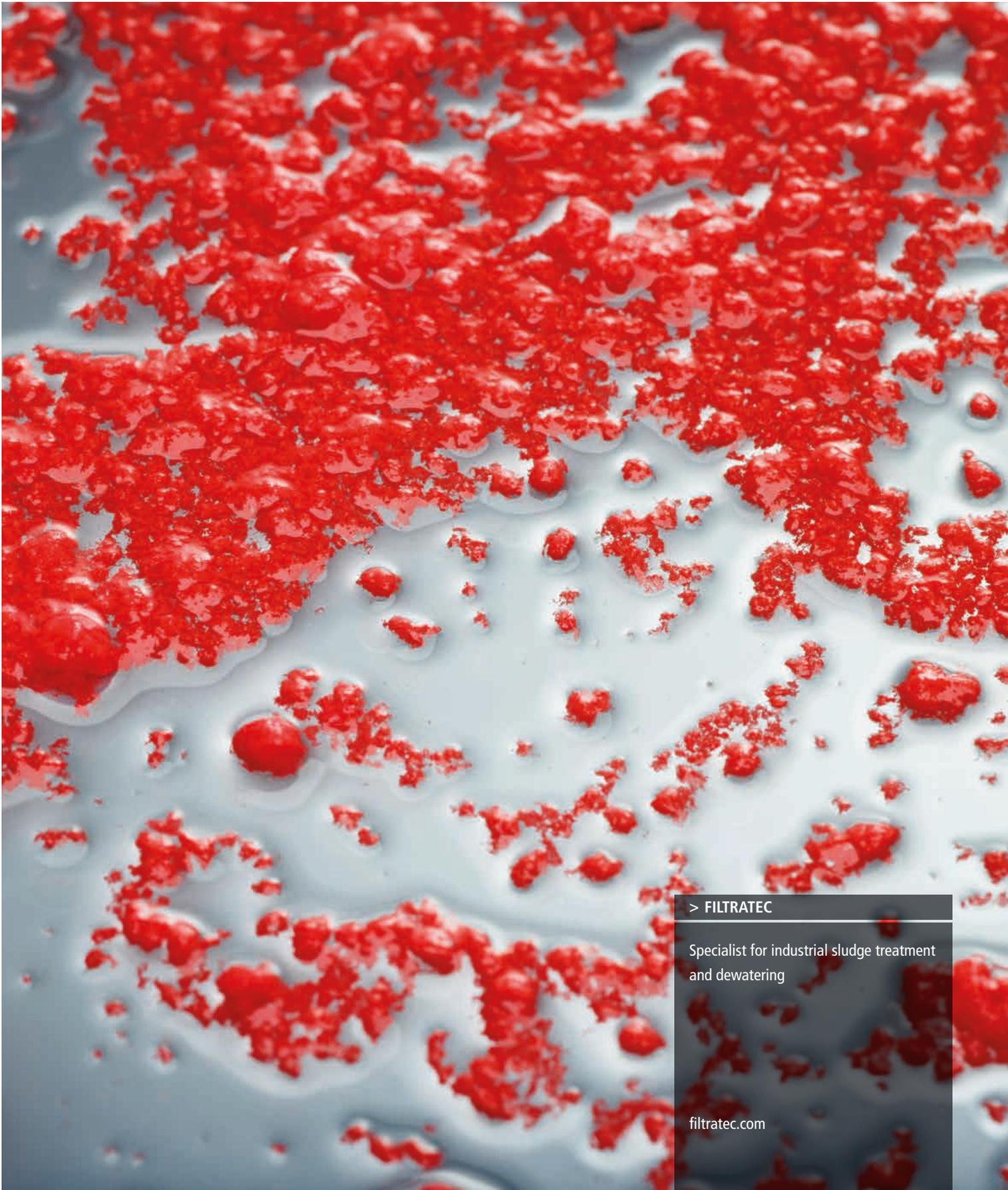


FILTRATEC®

WORKING FOR THE FUTURE

We filter for you!



> FILTRATEC

Specialist for industrial sludge treatment
and dewatering

filtratec.com

Experts for industrial sludge

Whether just one time,
regularly or permanently:
We filter for you. To the very
highest standard!

FILTRATEC is specialised in sludge dewatering and oil sludge separation for industrial companies. We are well equipped for demanding tasks in every aspect. Customers from the chemical and petrochemical industry, iron and steel production as well as construction and disposal companies have been using our services for more than 40 years.



Complete service portfolio

As dewatering units, FILTRATEC uses chamber and membrane filter presses along with three-phase decanters. The dewatering units are supplemented with suction dredges and other treatment modules such as sieving machines and reaction tanks. Together with partners from the corporate group, we also gladly perform additional services such as solid disposal.

Sludge dewatering as a service

Our services are available for the most varied applications:

- As a permanent alternative to an own investment in expensive plants
- When an own plant breaks down
- To cover capacity peaks
- For a small amount or sporadic accrual of sludge
- During overhauls and cleaning
- For inspecting and improving extant processes
- For hedging investment decisions

During major projects we erect complete factories at our customers for a limited time period for chemical-physical treatment; assembled within a short period of time from our mobile and modular equipment.

Mobile or stationary

Together with you, we analyse to see if a mobile or a stationary plant is the better choice. Once this choice has been made, we will then gladly plan, build, operate and finance it for you. With the expertise and experience gained from more than 40 years of performing dewatering and filtration.

Specialist for emergencies

FILTRATEC has a large number of varied kinds of mobile dewatering plants and auxiliary equipment. That puts us in a position to quickly support you in emergencies such as when your own plant breaks down. If necessary, even with multiple plants simultaneously.

Quality and safety have priority

A quality management program based on EN ISO 9001 and the safety management as per SCC^P help us fulfil the wishes of our customers in every aspect.

> Spectrum of treatment

- Sludge from crude oil or slop oil tanks
- Sludge from chemical processes
- Sludge from dedusting blast furnaces, converters and foundries
- Sludge from air preheaters (LUVO), tanks and pipeline cleaning
- Sludge from wastewater purification
- Sludge from surface drainage
- Sludge and sediments from water management



> SERVICES

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

FILTRATEC is an industrial service partner for mobile sludge dewatering, solid-liquid separation, sludge and wastewater treatment as well as product filtration. That is exactly our speciality – we render precisely these services with well-trained personnel and high-grade equipment every day.

Mobile chamber filter presses

We use chamber filter presses in mechanical sludge dewatering. This technology produces compact sludge and solid-free filtrate. We have filter chamber presses for optimal economic treatment in various versions and sizes:

- Filter surfaces: 60–350 m²
- Chamber volumes: 0.6–5.0 m³

Mobile membrane filter presses

If the goal is to achieve the highest possible solid content in the filter cakes, our membrane filter presses are deployed. This equipment also facilitates washing the sludge/filter cakes. Mobile membrane filter presses are also available in an acid-resistant version.

Plant sizes and types available:

- Filter surface: 90–400 m²
- Output chamber volumes 1.2–6.1 m³

Mobile gas-tight decanters

FILTRATEC operates mobile gas-tight three-phase decanters for separating combustible and harmful substances, for instance crude-oil sludge, slop remnants or sludge that contains solvents. The sludge-carrying system is completely covered with nitrogen in these ATEX-compliant plants. Sludge and combustible liquids can be safely processed independently of the flash point. We provide the highest degree of explosion, environmental and personal protection.



Even treating large sludge volumes is possible with mobile plants – in part we can produce up to 300 t filter cakes per shift



An outstanding feature at
FILTRATEC: Mobile gas-tight
three-phase decanters



Our mobile plants for sludge dewatering are operated on-site by our qualified personnel

The nitrogen covering means no explosive zone can arise within the gas-tight decanter from FILTRATEC. The three phases of oil, water and solid result in only one step

Experts for special tasks

Our daily business especially involves complex tasks that go way beyond just sludge dewatering. To accomplish them, we also use:

- Collection, mixing, process containers with up to 300 m³ volume
- Dissolving and dosing equipment to condition sludge
- Sieves and separators for the pretreatment and fractionation of suspensions
- Pump, conveyor and transfer units
- Agitators, heat exchangers and air washers

From recovering sludge as well as individual treatment and filtration up to wastewater purification and solid logistics – we filter for you!

In use throughout Europe

We are on the road every day throughout Europe with our mobile filter presses, decanters and add-on modules. Depending on the order, the deployments can last anywhere from only one day to up to several months. Whether it's an overhaul, a plant shutdown or sporadic orders – we are there when we are needed.

> Sludge draining with floating suction dredges

FILTRATEC operates floating suction dredges, which are used to dissolve sludge and sediments below the standing water phase with cutting tools. The sludge and sediments are then pumped off and fed to the treatment plant through floating delivery lines.



Why should you decide in favour of FILTRATEC!

The main goal of sludge dewatering is to achieve separation between the solids and liquids and possibly oil with the aim of volume reduction. On top of that, FILTRATEC provides numerous additional advantages.

Our equipment is designed to meet the high demands of industrial users. After all, that is what we are specialised in!

1 Proven industry specialist

We are specialised in the often complex and, in the truest sense of the word, heavy-duty tasks needed by industry – our plants are correspondingly designed to be rugged:

- Our filter presses with solid bridge beams are ideal for filtering heavy, for instance, metalliferous sludge
- Acid-resistant and explosion-protected plants facilitate the treatment of hazardous sludge and liquids

2 Top cost effectiveness

On-site sludge dewatering is the affordable alternative to liquid removal in many cases. Furthermore, you tie up neither personnel nor capital; you don't have to make substantial investments in order to build up and expand your own capacities. You also profit from reduced waste disposal costs and better product yields.

3 Maximum flexibility

The mobile treatment right at the point of production significantly reduces the number of waste transports. Additional aspects:

- We can handle large-scale projects as we can mass multiple plants together
- Full service from a single source – if desired, including removal of the solids
- Solutions for large and small tasks – we have plants with volumes of 600 to 6,000 litres and treat sludge volumes of < 10 m³ to well over 10,000 m³

4 Guaranteed availability

If desired, we guarantee 100 percent availability by designing the plants – whether mobile or stationary – completely redundant.

5 Great reliability

We deploy solely experienced and well-trained personnel to operate the plants we run.

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

In particular in the petrochemical industry the implementation of explosion protection measures compliant with the ATEX Directive is one of the main requirements. FILTRATEC has mobile gas-tight three-phase decanters! We developed and built the plants ourselves.

> Immediate analysis and substance evaluation

Before deployment, the treatment instructions are worked out in the FILTRATEC process-engineering lab and the mass balance is calculated. What is the solids content, water proportion and, if applicable, the oil proportion? Will filtering agents be needed or not? Does water have to be admixed? These preparatory measures guarantee a high degree of separation, maximum solids content in the filter cake and solid-free filtrate.



The goal of sludge dewatering is the reduction of the disposal volume and the increase of the product yield. The better the formula, the more effective the separation

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FILTRATEC is part of the REMONDIS Group, one of the world's largest service providers for recycling, service and water. The companies in the Group operate more than 500 offices and holdings in 34 countries in Europe, Africa, Asia and Australia. The Group employs over 30,000 people, who carry out work on behalf of some 30 million citizens and for many thousands of companies. To the very highest standard. Working for the future.

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