



Silo cleaning and tank cleaning across Europe

**We do not just get it done.
We do it properly!**



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Certified master craft company with specialist expertise

Reliability is not optional for us. It is a principle.

NT Service GmbH is a certified master craft company specialising in the cleaning and maintenance of silo and tank systems. With six locations, modern technology and qualified personnel, we carry out several hundred assignments across Europe every year.

We work for industrial customers in sectors such as chemicals, energy, construction and food. Our work is safe, reliable and documented. On request, we support our assignments with measurements, condition assessments and expert reports reviewed by certified specialists.

Matthias Natusch, Managing Director:

“As a responsible specialist company, we act sustainably. Technically, commercially and in our dealings with people and the environment.”



NT Service GmbH – Strong for your sector too

Cross sector experience

We know the requirements of sensitive industries from a technical, organisational and safety-related perspective.

Ready for deployment across Europe

With our own teams and short response times, we operate across Europe. Plannable, direct and reliable.

Over 1,000 customers across Europe

From medium sized companies to major corporations, our services deliver results that can be relied upon.

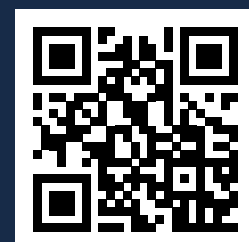
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We operate across Europe for you. Your enquiries are coordinated and answered efficiently and reliably by our central office.

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About us

We are the market leader in silo cleaning and silo blockage removal

We are not a conventional cleaning service provider. We are a specialist company for industrial special cleaning under demanding conditions. Whether hazardous substances, technical limits or specific safety requirements are involved, our work begins where others do not continue.

What sets NT Service GmbH apart

Expertise

Experience, safety and documented procedures form the solid basis of our work. Clear processes and technical know-how consistently create reliable results.

Innovation

We continuously develop our methods. Modern technology and practical solutions improve efficiency, safety and environmental protection in every area of application.

Quality

Certified specialists, modern equipment and documented procedures ensure consistent quality and safety across Europe and in all operating environments.

What we stand for

NT Service GmbH stands for safe, standards-compliant assignments in silos, tanks and vessels, with clear processes and traceable results.

Training

Our team includes master building cleaners, technical business specialists and certified rope access technicians, as well as qualified personnel for gas warning and measurement technology. Regular training and briefings ensure that all employees work in accordance with current quality standards.

Equipment

Our team works with proper rope access and climbing technology as well as modern special equipment. High performance suction and cleaning systems, together with precise measurement and clearance technology, ensure safe working conditions. Safety and current industry standards are binding for us.

Standards

We deliver scheduled, standards-compliant assignments. Safety takes priority. Risk assessments, clearances and rescue concepts are mandatory. ATEX and HSE requirements are strictly observed. Efficient processes and complete documentation ensure stable plant operation.

Qualification for safe work

Our qualification process follows a clearly structured system that introduces young employees and career changers specifically to the technical requirements in silos, tanks and other industrial plants. Subject specific training, practical briefings and supervised work steps ensure that safety relevant procedures are reliably mastered. This creates a team that carries out demanding work professionally.



A high-angle, top-down photograph of a worker inside a large, circular silo. The worker is wearing a blue jumpsuit, a yellow helmet, and yellow safety boots. They are suspended by ropes and are using a long, vertical tool to clean the silo's interior. The silo walls are made of concrete and show signs of wear and discoloration. The lighting is dim, creating a blue-tinted atmosphere.

**Silo cleaning by the
market leader**

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Clean silos. Safe processes.

Whether food products, construction materials or chemical substances are involved, contaminated or blocked silos can bring processes to a halt. That is why we clean precisely where the highest requirements apply to hygiene, safety and efficiency.

NT Service GmbH has qualified personnel, specialised equipment and all relevant certifications. We know the legal requirements and carry out cleaning safely, with full documentation and in accordance with applicable standards, for maximum operational safety and consistent product quality.

Benefits of professional silo cleaning

- Product safety: Contamination and impurities are reliably prevented.
- Longer service life: Deposits and corrosion are identified and removed at an early stage.
- Legal certainty: Hygiene and occupational safety requirements are demonstrably met.
- Higher efficiency: Production downtime caused by blockages or obstructions is prevented.
- Greater safety: Trained specialists and tested equipment significantly reduce the risk of accidents.

Food industry

Pest infestation, microbes or cross-contamination: with raw materials such as flour, sugar or starch, regular silo cleaning is mandatory. We ensure hygienic and documented cleanliness, suitable for audits and compliant with standards.

Construction and cement industry

Cement, lime or fly ash are stored under extreme conditions. We clean silos even in cases of incrustation, material bridging or mechanical defects, using rope access, explosive cleaning or high-pressure technology depending on requirements.

Chemical industry

Reactive, toxic, potentially explosive: many chemical substances require specialist technology and protective measures. We are trained for work in ATEX zones, under an inert gas atmosphere and in areas with hazard potential.



Safe tank cleaning for sensitive systems

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Safety without downtime

Tanks containing chemicals, fuels, food products or substances hazardous to water must be cleaned and maintained regularly without interrupting ongoing operations. We ensure cleaning in accordance with applicable standards, comprehensive safety and legally compliant documentation.

ATEX-compliant procedures

In potentially explosive areas such as fuel tanks or solvent tanks, we minimise the risk of ignition sources to a technically safe level. We work with tested equipment, clear procedures and documented clearances, for maximum safety and uninterrupted processes.

Comprehensive safety concepts

Whether confined spaces, toxic residues or sensitive production zones are involved, we develop structured safety procedures that clearly identify risks. Every step is documented, proven in practice and takes the requirements of your system into account, for safety with minimal disruption to operations.

Personal safety measures in line with BG requirements

Work in closed tanks requires experienced specialists. Our specialists are trained in accordance with the requirements of the German employers' liability insurance associations, equipped with tested protective equipment and work according to clearly defined safety standards, for protection in every operating situation.

Solutions for every challenge

Whether chemicals, fuels or high-care applications are involved, we clean tanks safely, efficiently and with full documentation. For sensitive media, demanding locations and the highest requirements.

Highly viscous substances

With our specialised equipment, we reliably remove even strongly adhering substances.

Leak testing

After cleaning, we check the tank for possible leaks.

Corrosion protection

Without protection, corrosion can occur again, for example in gas tanks or decommissioned systems.

Repair

Our specialists identify defects at an early stage and rectify them directly on site.



**PFAS in your system?
We decontaminate**

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Act now instead of being liable

PFAS-containing foam agents are subject to strict EU requirements. Improper handling can result in significant environmental and liability risks. Operators are required to clean contaminated systems professionally and avoid residues. Our certified procedures meet all legal requirements, quickly, safely and without interrupting operations.

Below detection limits

Our procedures reliably reduce PFAS residues below statutory detection limits. The result is verified by independent laboratory analyses, providing important evidence for authorities, auditors and approval procedures.

Residue-free results

We completely remove PFAS-containing foam agents from tanks, pipework and foam lines. No critical residues remain, making it ideal for maintenance clearances, environmental inspections and safe continued operation.

Fast process execution

Our experienced teams work with mobile specialist equipment, proven procedures and clear time planning. This allows us to reduce downtime and carry out decontamination without disrupting operations, even within tight time windows.

PFAS foam agents. Permitted in the tank, prohibited in the drain?

According to the REACH Regulation, PFAS-containing foam agents may be used under certain conditions, but environmental law sets clear limits. Legal consequences may arise as soon as they are drained. NT Service GmbH helps operators identify risks, comply with regulations and implement safe solutions.

Legal situation


Section 48 of the German Water Resources Act applies immediately, regardless of REACH. Even small wastewater quantities may be a criminal offence.

Responsibility

Operators are liable for improper handling. Without decontamination or retention, fines, shutdowns and remediation obligations may arise.

Our approach

We support operators through every step, from decontamination through to complete conversion to PFAS-free systems, including expert reports.



**Resolve blockages
safely with controlled
blasting technology**

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Controlled blasting technology for unobstructed silos

Deposits and blockages in silos and tanks are often difficult and time consuming to remove using conventional methods. Explosive cleaning offers a precise solution: controlled charges reliably loosen incrustations without damaging the structure and with a documented result.

Safe

Explosive charges are calculated precisely. This protects the structural stability of the system and ensures operational safety.

Efficient

Our controlled blasting technology reliably restores material flow and prevents extended production downtime.

Cost-effective

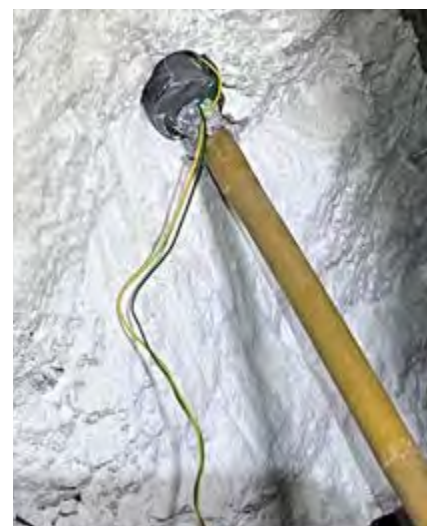
Targeted procedures significantly reduce effort and costs compared with conventional blockage removal measures.



Your benefit from our controlled blasting technology

Our rope access technicians are certified specialists in rope access technology and reliably provide safe access to the silo system, even under difficult conditions.

For explosive cleaning, the charges are placed precisely into prepared boreholes and compacted. This achieves controlled fragmentation of the material, with minimal use of explosives, reduced vibration in the bulk storage silo and a particularly gentle effect on the system.





**Sandblasting of tanks
and silo systems**

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Gentle treatment of technical surfaces

Sandblasting is used to remove stubborn deposits, corrosion layers and old coatings in a controlled manner. Depending on the requirement, the process is used for cleaning, technical preparation or preparation for subsequent work on tanks and silo systems.

Surface cleaning

Solid deposits, corrosion layers and old coatings can be removed precisely and efficiently by sandblasting. The process is used in tank and silo systems where other cleaning methods are not technically sufficient.

Gentle on the system

By selecting the blasting medium and pressure in a controlled manner, the surface is treated precisely. This allows contamination to be removed without stressing or damaging the integrity of the components.

Basis for further measures

Technically clean surfaces form the essential basis for repairs, inspections or coatings. They create clear starting conditions and make it significantly easier to plan and safely carry out further work.

Time and cost advantages through sandblasting

Sandblasting enables cleaning and preparation work on technical systems to be carried out efficiently. This creates economic advantages in relation to downtime, maintenance and operating costs.

Minimised downtime

Durable surfaces

Optimised material use

Sandblasting work can be carried out directly using rope access. This allows even areas in tanks and silos that are difficult to access to be treated without scaffolding. Sandblasting is used to prepare tank and silo coatings. The work is coordinated with Sika coating systems. Work in potentially explosive areas is carried out in accordance with ATEX requirements. Personnel, procedures and equipment are designed for this purpose.

ATEX-compliant work in potentially explosive areas

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ATEX work in accordance with TRGS and DGUV regulations

EX substances are solid, liquid or gaseous substances that can form an explosive atmosphere under certain conditions. In silo and tank systems, these mixtures occur through dust release, evaporation or leaks.

NT Service GmbH covers all key areas of explosion protection under ATEX, from risk assessment and training through to ATEX-compliant execution of cleaning and maintenance work.

Thorough

In accordance with ATEX requirements, we remove flammable residues from tank and silo systems. The aim is to reduce ignition sources before further work is carried out.

Controlled

With spark free equipment and carefully coordinated access procedures, we work under controlled conditions. Dust and ignition risks are systematically and effectively minimised.

Sustained

Inspections and maintenance secure the proper condition of systems and ensure reliable long-term performance. Operational safety in potentially explosive areas is maintained.

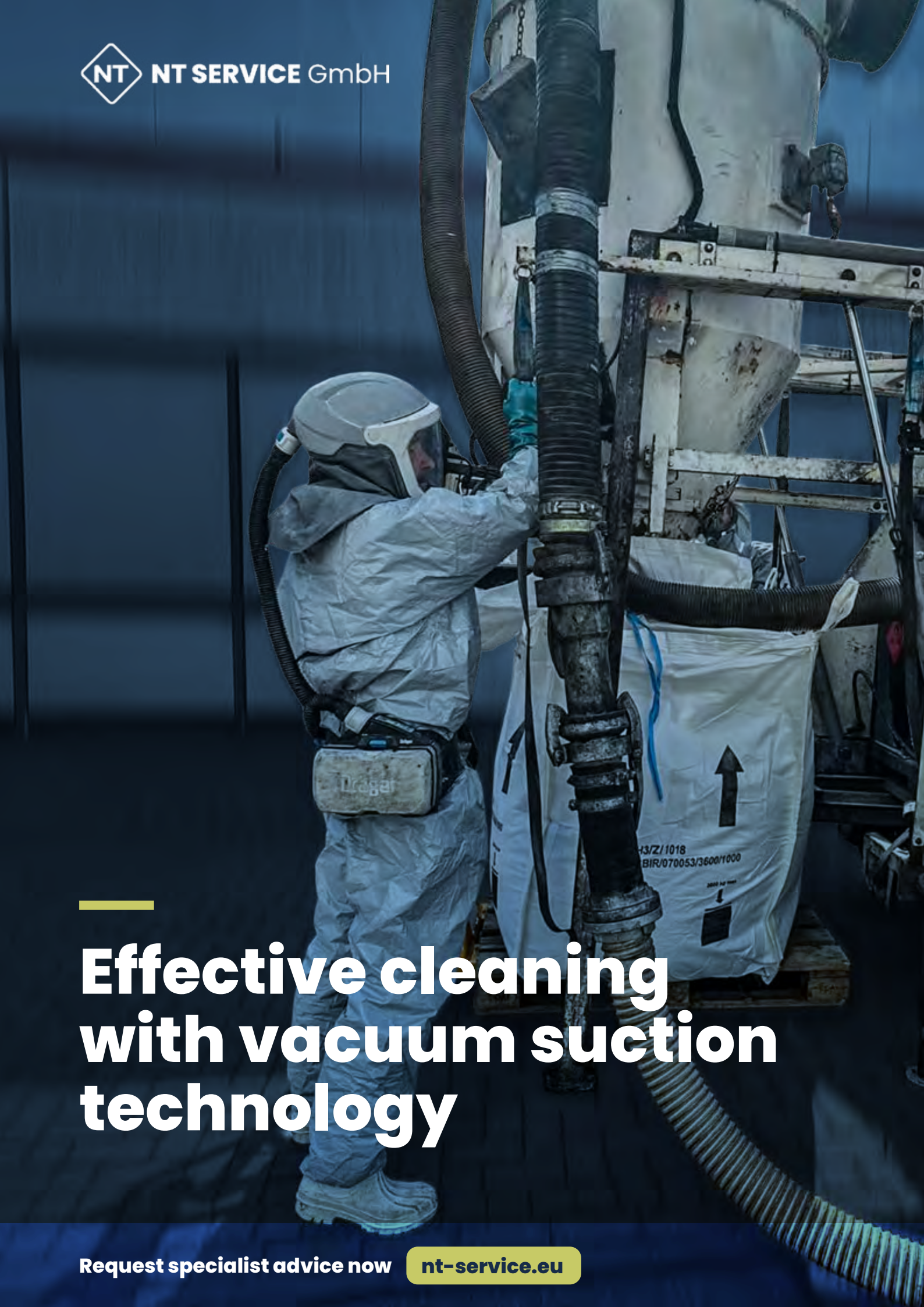
ATEX directives in operational use

ATEX regulates explosion protection for systems, work equipment and activities in potentially explosive areas. The ATEX directives form the legal and technical framework for explosion protection in industrial systems and processes.

For operators, ATEX means systematically assessing hazards, avoiding ignition sources and implementing suitable protective measures. Work in potentially explosive areas may only be carried out according to clear procedures and in compliance with the applicable technical rules.

Key objectives of explosion protection under ATEX:

- Avoidance of effective ignition sources.
- Limitation of explosive atmospheres.
- Reduction of possible explosion effects.



**Effective cleaning
with vacuum suction
technology**

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Vacuum suction technology: Economical and efficient

With our vacuum suction technology, we are able to clean silo and tank systems economically and remove material bridges and blockages in a targeted manner. Compared with conventional methods, the extracted material is conveyed directly into suitable containers.

Areas of application

Organic and inorganic bulk materials as well as silo contents can cause specific operational disruptions. These include build-up on internal wall surfaces, material bridges or fixed materials in the high fill level area.

Storage

The suction technology used has a mobile intermediate storage unit that can transfer the bulk material into suitable containers. For smaller tonnages, this can eliminate the need for additional suction or silo vehicles.

Costs

Reduced standing times for silo and tank vehicles can create economic advantages. Conveying the raw material into suitable containers helps to reduce time and cost expenditure.

Efficiency

With a suction capacity of up to 20 tonnes per hour, our vacuum suction technology enables rapid material intake. In combination with rope access work in tanks and silos, faults can be rectified promptly.

Safety

Low molecular, bipolar, hygroscopic or pressure compacted dusts can also be collected reliably and safely. Explosive dusts in ATEX zones are extracted in strict compliance with all applicable safety requirements.

Environment

Vacuum suction technology enables the controlled and efficient collection of residues from production and storage areas. The extracted material is then safely treated further or disposed of accordingly.

Selected case studies

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PFAS decontamination: Foam tank cleaning at Wacker Chemie



The initial situation

In a fire extinguishing system control centre at the Burghausen site, a foam agent tank including pipework, fittings and internal tank surfaces was to be freed from PFAS residues harmful to health. According to laboratory analysis, the existing values were significantly above the legal limits, with more than 500 µg/kg PFOA in the old foam concentrate. The target value was below 25 µg/kg.

The assignment

Complete decontamination of a stationary foam agent tank including the associated infrastructure. The work was carried out with the aim of achieving a laboratory verifiable cleaning result below the statutory detection limit.

The procedure

After an initial visual and chemical pre-cleaning stage, the tank was entered by our specialists wearing protective clothing. All relevant system components were manually decontaminated. Specially developed tools, coordinated cleaning steps with physicochemical mechanisms of action and a combined rapid test and laboratory measurement procedure were used for step-by-step monitoring of the PFC and PFAS contamination. The final assessment was carried out by an accredited testing laboratory on the basis of our internal decontamination guideline.

The hazard situation

PFAS and PFC compounds are regarded as persistent, toxic and potentially carcinogenic. They enter the environment through contaminated firefighting water and contaminate groundwater for decades. Even the smallest residues in the system can lead to legal limit values being exceeded.

The result

After decontamination, the PFAS values were significantly below the limit value. According to laboratory analysis, they were even below 1 µg/kg PFOA and PFAS (C14). This meant the assignment was successfully completed. The fire extinguishing control centre was able to resume operation without restrictions.

Construction chemicals industry: Explosive cleaning in an anhydrite silo

The initial situation

For decades, a massive block of compacted and hardened material had been stored in an anhydrite silo. Originally stored as loose bulk material, the contents had hardened over time and due to weathering into a stone-like mass. Removal was only possible via a narrow channel, in some cases only with manual support.

The assignment

The aim was to relieve the anhydrite silo by controlled removal of the hardened material. The assignment was intended to provide a solution after conventional methods had previously failed several times.

The procedure

Through the targeted use of controlled blasting methods, the blocks were broken down and set in motion in a controlled manner. This made it possible to loosen material masses that could not have been reached physically with any pneumatic hammer. The controlled blasts performed the heavy work, significantly reduced the physical strain on the personnel and made it possible to work without personnel remaining directly in hazardous areas.

The hazard situation

The dimensions and hardness of the material made it clear that conventional methods such as compressed air or pneumatic tools could not achieve the objective. Purely mechanical removal would have taken weeks or months and would have involved extreme physical strain as well as considerable hazard potential.

The result

Despite the enormous quantities of material, the silo was significantly relieved. For the operator, it was clear that real progress had been achieved for the first time in decades. Without the use of controlled blasting methods, the silo would probably have remained blocked for several more years.

Glucose tank cleaning: Assignment in the food industry

Trolli

Trolli GmbH

The initial situation

A large-volume glucose tank was to be fully cleaned and assessed for the first time. Technical cleaning had not previously been possible because the system did not provide safe structural access. Hygiene requirements, however, required complete and documented disinfection of the internal tank surfaces.

The assignment

Complete cleaning, disinfection and assessment of a glucose tank that had never previously been fully treated. The aim was hygienically flawless recommissioning, including documented assessment of all surfaces.

The hazard situation

Production systems for food are subject to the strictest requirements in terms of hygiene, occupational safety and documentation. Improper cleaning not only poses health risks, but can also result in regulatory shutdowns. At the same time, access was technically demanding and could only be achieved by experienced rope access technicians.

The procedure

The cleaning team used a multi-stage procedure consisting of mechanical pre-cleaning, disinfection and final assessment using the CP luminescence method. This proven technology enables precise assessment of microbial load on the treated surfaces. Access was provided via rope-based entry systems. All work was carried out under hygienic conditions and under the supervision of the food technologist. Even areas that were difficult to access were fully treated and documented.

The result

Thanks to the combination of technical expertise, rope-based access and food-specific specialist competence, the glucose tank was able to be recommissioned in a hygienically flawless condition. Assessment using the CP luminescence method confirmed a consistently low microbial load across all surfaces.

Documentation as evidence of safety



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Trust through transparency

Companies that work with substances hazardous to water, flammable materials or pressure vessels are subject to strict documentation obligations. Precise documentation determines safety, quality and liability. It forms the basis of every expert assessment and shows whether work has been carried out professionally, in accordance with standards and in a traceable manner.

At NT Service GmbH, documentation is not a formal add-on, but a central part of every assignment. The reports created meet all requirements under AwSV, ATEX and the German Ordinance on Industrial Safety and Health and provide operators with legal certainty for audits, inspections and approval procedures.

Complete evidence for every assignment

Every assignment is fully documented. Depending on the purpose of the assignment and the hazard situation, the scope of the recorded data varies. For standard cleaning work, the technical execution is the main focus. For safety-critical assignments, additional measurement values, video recordings and microbiological analyses are added. This creates robust evidence for every assignment, objectively documenting the actual effort involved and the quality of the work.

Digital recording directly at the customer's site

Data is recorded directly on site using digital systems. Site managers from NT Service GmbH record checklists, gas tests, safety clearances and condition information in real time and with full operational accuracy. This enables audit-proof and traceable documentation that can be accessed at any time. All data is stored centrally and is available for later evaluations, audits or expert reports.

Expert reports with legal relevance

If the assignment is subject to regulatory or insurance law requirements, a detailed expert report is prepared. It documents the measures carried out, assesses the condition of the system and contains recommendations for safe continued operation. The report is checked by qualified expert assessors, signed and stamped with the company stamp. It is legally binding evidence for operators and authorities.

BASF



References

Companies that rely on us

More than 1,000 companies and operators of silos, tanks and technical systems have commissioned NT Service GmbH across Europe. The references show a selection of projects that we have carried out for different plant operators.



Holcim AG

At Holcim, NT Service GmbH carried out explosive cleaning in a cement silo and removed heavy deposits.

BMW

For the BMW Group, NT Service GmbH cleaned silos and bulk material storage units. PFAS residues were also removed.

BASF SE

At BASF SE, NT Service GmbH took over the professional cleaning of tanks in chemically contaminated plant areas.

Impressive references

Selection of our clients by sector

Plastics industry
Renolit SE
Becker Plastics GmbH
Röchling Sustaplast SE & Co. KG
Rehau AG & Co. KG
Supraplast GmbH
Heytex Bramsche GmbH
RIEDL Kunststofftechnik & Formenbau GmbH & Co. KG
Graf Polymers GmbH
Polyden Folienfabrik GmbH
Guyltech future GmbH

Water sector
Technische Universität Berlin
Berliner Wasserbetriebe
Braunschweiger Abwasserbetrieb

Federal sector
Bundeswehr
Materialforschungs- und -prüfanstalt
Various motorway maintenance depots

Automotive industry
Porsche AG
Volkswagen AG
Mercedes-Benz
BMW

Silo construction
Thorwesten GmbH
Silosysteme Kurz GmbH
Zeppelin System GmbH

Agricultural sector
BayWa AG
Thüringer Futterwerke
Raiffeisen Handel AG
Roth Handels AG
Rörig-Hartig GmbH

Energy sector
Siemens AG
Vattenfall GmbH
TenneT Holding B.V.

Pharmaceutical industry
ratiopharm GmbH
Nordmark Arzneimittel GmbH

Transport industry
DHL
Airport Leipzig
Fiege Logistik Holding Stiftung & Co. KG

Chemical industry
BASF SE
DAW SE
Dynea SE
DOW SE
Emsland Aller Aqua
Wacker Chemie AG
Huhtamaki Flexible Packaging Germany GmbH & Co. KG
Leadec FM BV & Co. KG
Novelis Sheet Ingot GmbH

Food industry
Bahlsen
Kellogg's international
Cargill GmbH & Co. KG
Coca-Cola u.L.
Pepsi u.L.
Culcami GmbH & Co. KG
Mondelēz International
Wernsing Feinkost
Staatliches Hofbräuhaus in München
Verdener Keks- und Waffelfabrik Hans Freitag GmbH & Co. KG
CSM Deutschland GmbH
Kuchenmeister GmbH
Trolli GmbH
Pfeifer & Langen GmbH & Co. KG
Piasten GmbH
Gustav Berning GmbH & Co. KG
INTERQUELL GMBH
EDEKA Handelsgruppe
Hochwald Foods

Construction chemicals
Sika SE
DAW SE
Holcim AG international
Lafarge AG international
Dyckerhoff international
Saint-Gobain Weber
Didier Werke AG
Weserland GmbH
Fels Werke GmbH
Spenner Zement GmbH & Co. KG
Vereinigte Kreidewerke Dammann GmbH & Co. KG
Basalt-Actien-Gesellschaft



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