

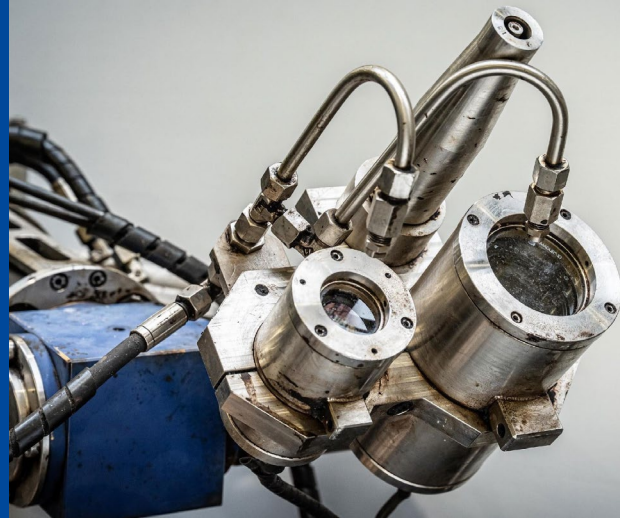


CLIMBEX

Climbex Industrial Solutions GmbH

WHAT WE OFFER YOU

www.climbex.eu



AGENDA

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SHORT FACTS

- ~ More than a 25 years of experience in industrial cleaning techniques and operations
- ~ **NEW:** Closed automatic tank cleaning (non-man entry) since 2024, including: ATEX BLABO system, ATEX manway cannon, ATEX three-phase decanter, ATEX robotic dozer
- ~ Locations in Langenfeld, Dinslaken (Germany), and Opole (Poland)
- ~ Expertise gathered from around 100 highly qualified and dedicated employees
- ~ Extensive fleet of special vehicles for industrial cleaning

PORTFOLIO



High pressure
cleaning

Demolition
deconstruction

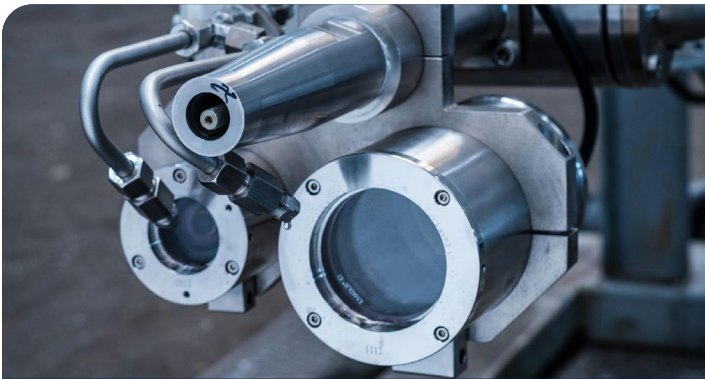
Industrial
cleaning

CLIMBEX
Industrial
Services

Catalyser
services

Chemical cleaning

Biogas services



ATEX Manway Cannon

ATEX
Robotic
Dozer

CLIMBEX
Closed
Automatic
Tank Cleaning

ATEX
Blabo
System

ATEX Three-phase Decanter

AUTOMATIC TANK CLEANING

With our automated processes, we clean both large-volume floating tanks as well as fixed-roof tanks efficiently and safely.

Environmental protection is always considered and managed.

WE WOULD BE HAPPY TO ASSIST YOU IN:

- ~ **The Petrochemical industry**
- ~ **The Coal and steel industry**
- ~ **The Chemical industry**
- ~ **Tank farms**

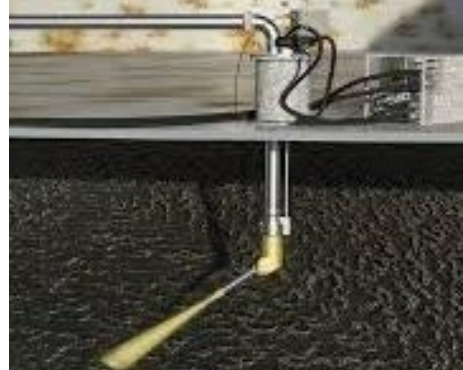
AUTOMATIC TANK CLEANING

BLABO SYSTEM

The Blabo system was developed particularly for cleaning large-volume oil tanks and is suitable for both floating and fixed roof tanks.



Learn more about
the BLABO system



AUTOMATIC TANK CLEANING

MANWAY CANNON

The Manway Cannon is a unit consisting of a hydraulically controlled cleaning nozzle, video cameras, and spotlights. In the tank, it is fixed into a cleaning opening.

The interior of the tank is cleaned remotely from a mobile container. With a flushing pressure of up to 35 bars, the water and special A1/A3 products tackle any kind of dirt.

The Manway Cannon complies with Zone 1 safety standards and is also suitable for use in Zone 0 when utilizing nitrogen (N₂) and a designated oxygen content (in accordance with the LEL).



AUTOMATIC TANK CLEANING

THREE-PHASE DECANTER

Solids, oil, and water are separated from each other in a closed circuit under a nitrogen atmosphere.

While the solids are then disposed of, oil is returned to the production process in order to be reprocessed.

Minimizing waste while maximizing the utilization of raw materials makes the decanter an environmentally conscious separation pro.



AUTOMATIC TANK CLEANING

ROBOTIC DOZER

The Dozer was developed to be employed in ATEX Zone 0. It can clean oil tanks and oil sludge pits in confined and potentially explosive spaces.

Thanks to its patented powerful, high-grip magnetic tracks, the versatile system moves through the contaminated tank easily.

In combination with an autonomous control unit, a mobile ventilated cabin, as well as a pressure/vacuum truck for the removal of residual sludge, it makes the perfect partner for us to clean your tank!



AUTOMATISCHE TANKREINIGUNG

REFERENZLISTE

Germany	(BP Gelsenkirchen / Lingen, Miro, Total Leuna, Shell Deutschland etc.)
Netherlands	(BP Rotterdam, Shell Pernis / Mordijk, Gunvor, Vopak, MOT, ExxonMobil etc.)
Belgium	(Total Antwerp, Total Fina Antwerp, Exxon Mobil, Ineos, BP Geel etc.)
Spain	(Repsol Taragona / Bilbao, Cepsa, Vopak Tarragona / Barcelona)
Portugal	(Galp Sines / Enerfuel Sines)
UK	(Lindsay Oil Refinery, Phillips 66 Humber, ExxonMobil Fawley)
Poland	(Pgnigg Group, Mol Group, Gdansk Refinery, Orlen, Pern S.A. Lotos S.A. etc.)
Hungary	(Mol Group)
Denmark	(Kalundborg Refinery & Fredericia Refinery, Crossbridge Energy, Shell Denmark)
Israel	(Bazan Group)
Australia	(Former BP Kwinana, Mobil Refinery)
Brazil	(Braskem / Petrobras)
Norway	(Equinor Mongstad, ExxonMobil Norway, etc.)
Saudi Arabia	(Aramco)
Czech Republic	(Mero CR)
Lithuania	(Orlen)
Lybia	(VAOS)



INDUSTRIAL SERVICES

With our team in Dinslaken, the cleaning of large industrial plants is in the best hands.

Technological expertise, maximum occupational safety, environmental awareness, and state-of-the-art machinery set us apart.

WE WOULD BE HAPPY TO ASSIST YOU IN:

- ~ Steel and power plants
- ~ Food industry
- ~ Lime and cement plants
- ~ Glassworks
- ~ Petrochemical industry
- ~ Chemical industry
- ~ Biogas
- ~ Tank farms
- ~ Shooting ranges repair

INDUSTRIAL SERVICES

AIR CONVEYING SYSTEM

We tackle bulk materials such as gravel, sand, or cement, as well as residues from ash, sludge, or other solid and liquid substances.

Whether in glassworks, lime and cement plants, the food or chemical industry – with our state-of-the-art suction vehicles, we are able to work even in hard-to-reach places.

Sucked or blown materials can also be filled into big bags and tipped into containers or other storage locations after.

INDUSTRIAL SERVICES

AIR CONVEYING SYSTEM

Suctioning of food in accordance with FDA regulations



INDUSTRIAL SERVICES

AIR CONVEYING SYSTEM

Suction and blowing of bulk material



INDUSTRIAL SERVICES

AIR CONVEYING SYSTEM

Renovation of bullet trap systems



INDUSTRIAL SERVICES

AIR CONVEYING SYSTEM

Extraction and blowing of fly ash



INDUSTRIAL SERVICES

AIR CONVEYING SYSTEM

Sifting and transferring from barrels into big bags



INDUSTRIAL SERVICES

BIOGAS

We are happy to take on tasks such as digestate storage cleaning, fermenter cleaning, high-pressure water cleaning, or dismantling for you. And we guarantee that your plant will continue to operate at full capacity. It goes without saying that we place the utmost importance on occupational safety.



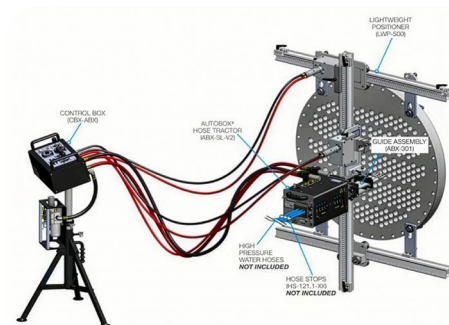
INDUSTRIAL SERVICES

CATALYSER SERVICES

We empty and fill your tube and batch reactors, we sift catalyst mass, set up sieves and cooling socks, and perform differential pressure measurements.

We are also happy to take care of preparations such as layering the different catalyst masses and decanting.

Moreover, we clean tube bundle heat exchangers of all sizes with the help of semi-automatic cleaning devices by StoneAge.



HIGH-PRESSURE CLEANING

OUR PROMISE:

Value Proposition

- ~ Automated high-pressure cleaning – no standard at Climbex
- ~ Greater efficiency: shorter inspections, longer production cycles
- ~ Safety: minimization of the risk of injury through remote-controlled systems

Technology & Innovation

- ~ In-house new and further developments, used exclusively by Climbex.
- ~ Technology department with a focus on R&D and active CIP: systematic technology research, rapid integration into operations

Your advantage with Climbex

- ~ Exclusive equipment + experienced teams = measurable added value
- ~ Quality stability with accelerated processes, increased plant safety



HIGH-PRESSURE CLEANING

OUR PROMISE:

Portfolio

- ~ Internal/external cleaning of tanks, containers, columns, reactors, pipelines, heat exchangers, etc.
- ~ Water jet cutting of steel and concrete
- ~ Operations in normal as well as harmful/toxic atmospheres – compliant and safe

Project Management & Compliance

- ~ Consulting, concept, implementation from a single source
- ~ Compliance with current environmental and safety requirements; documented, traceable processes

Industry focus & specific added value

- ~ **Chemical industry:** fast turnarounds, safe working in hazardous areas
- ~ **Pharmaceutical industry:** reproducible quality, validation-friendly documentation
- ~ **Energy sector (incl. biogas plants):** high plant availability, safe media handling, robust application technology
- ~ **Food industry:** hygienic processes and gentle cleaning, minimized downtime

CHEMICAL CLEANING

YOUR APPLICATION – OUR SOLUTION

- ~ Prior to commissioning
- ~ During maintenance and repair
- ~ For the servicing of your system
- ~ Efficiency optimisation of up to 15%
- ~ Surface protection
- ~ Decontamination

→ **QUICK**

→ **EASY**

→ **SAFE**

with **Climbex Chemical Cleaning.**

CHEMICAL CLEANING

CLIMBEX CHEMICAL CLEANING (CCC)

LIME?



CCC



RUST?



CCC



CHEMICAL CLEANING

CLIMBEX CHEMICAL CLEANING (CCC)

INITIAL CLEANING



SOILED OUTER SURFACE?



CCC



CHEMICAL CLEANING

CLIMBEX CHEMICAL CLEANING (CCC)

PICKLING & PASSIVATION



HEAT EXCHANGER CLEANING



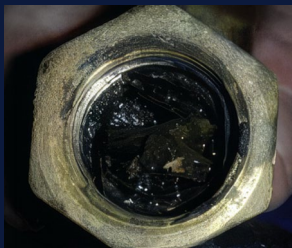
for all materials
available without hydrofluoric acid as well

without the need to dismantle

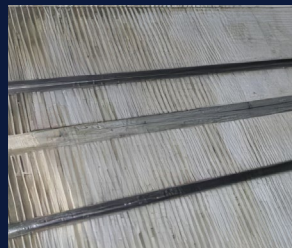
CHEMICAL CLEANING

CLIMBEX CHEMICAL CLEANING (CCC)

TECHNICAL BUILDING EQUIPMENT?



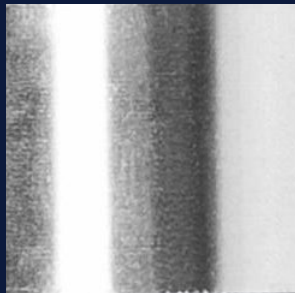
CRITICAL INFRASTRUCTURE?



CHEMICAL CLEANING

CLIMBEX CHEMICAL CLEANING (CCC)

ROUGING?



CONTAMINATION?



CHEMICAL CLEANING

CLIMBEX CHEMICAL CLEANING (CCC)

OUR TOP 5 PRINCIPLES:

- ~ Minimise potential hazards
- ~ Maximise service life
- ~ Conserve resources
- ~ Reduce environmental impact
- ~ Operate sustainably

OUR RAW MATERIALS ARE:

- ~ FDA-compliant
- ~ patented
- ~ versatile

CHEMICAL CLEANING

CLIMBEX CHEMICAL CLEANING (CCC)

- ~ Descaling / Rust removal
- ~ Degreasing / Oil removal
- ~ Initial cleaning
- ~ Disinfection
- ~ Decontamination of hydrocarbons
- ~ Pickling and passivation of steel surfaces
- ~ Passivation of stainless steel surfaces
- ~ Derouging
- ~ Pickling of stainless steel surfaces – even without hydrofluoric acid
- ~ Oil flushing
- ~ Local electro-polishing
- ~ Neutralisation
- ~ **and much more on request**



GET EXPERT ADVICE NOW!



DO YOU NEED ADDITIONAL INFORMATION?

Please reach out – we look forward
to talking to you!

OUR CONTACT DATA

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