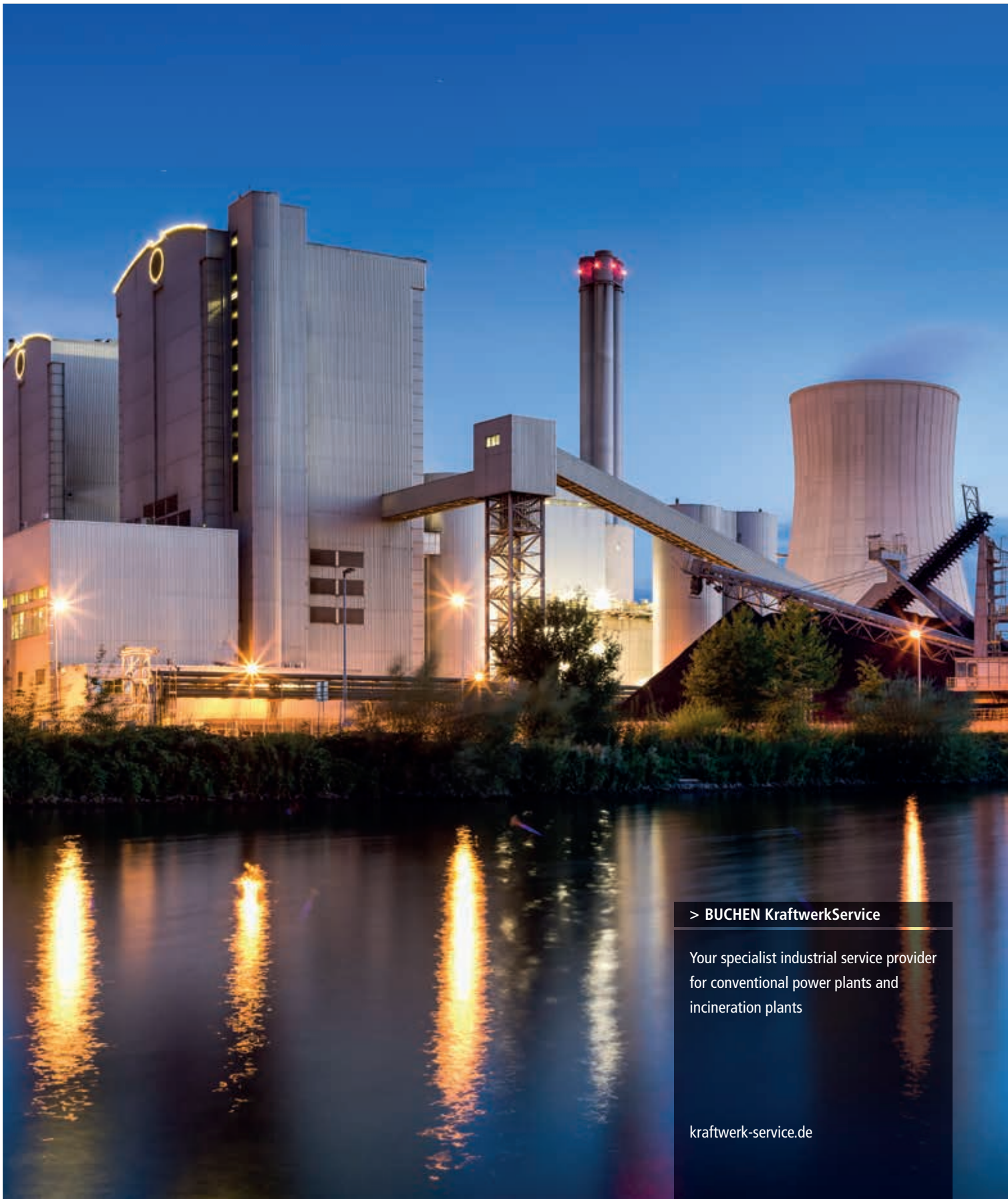
BUCHEN®

WORKING FOR THE FUTURE

Industrial services for conventional power plants and incineration plants



> BUCHEN KraftwerkService

Your specialist industrial service provider for conventional power plants and incineration plants

kraftwerk-service.de

Working at full power

BUCHEN KraftwerkService offers businesses operating conventional power plants, waste-to-energy plants, industrial incineration plants and steam generators a full range of services across the whole of Europe – from providing advice, to cleaning and renovating facilities all the way through to managing the waste generated.

A strong group of companies

BUCHEN KraftwerkService GmbH (BKS) belongs to BUCHEN UmweltService GmbH, an international company that is setting the standards in the industrial services and waste management sectors.

BUCHEN KraftwerkService GmbH offers a full range of services covering all the different plant sections found at power plants and waste incineration plants as well as boiler plants used by chemical, food processing and other industrial businesses

BUCHEN KraftwerkService – your specialist industrial service provider for conventional power plants and incineration plants

You, too, can benefit from our innovative technology and the specialist skills of our highly qualified staff. Why not find out about the advantages of working with BUCHEN KraftwerkService? We'll put together a customised package of services to cover your exact needs, helping to reduce your scheduling and working time to a minimum and simplify the processes and inspections at your plant. We can also be reached in an emergency via our 24-hour national emergency line at 0800 7177-111.

BUCHEN – working with industrial businesses across Europe

BUCHEN is an international service provider that is setting the standards in the industrial services and waste management sectors. BUCHEN's extensive range of services consists of industrial cleaning work and turnaround management as well as numerous specialist services such as tank services, catalyst services and services for nuclear power plants. By providing our customers with bespoke solutions, we ensure that they can focus on their core business. Training and further training programmes are held regularly at our own accredited training centre so that our employees always have access to the latest developments in their field. BUCHEN has been awarded Europe-wide accreditations for its quality, safety, health and environmental management systems. We are constantly optimising our processes and improving our technology to extend and fine tune our portfolio of services for the chemical and petrochemical industry.

In 2000, BUCHEN UmweltService GmbH united all of its power plant services into one single company, BUCHEN KraftwerkService GmbH, which is based in the German city of Herne

> Our fields of business

- Bunkers (waste/slag)
- Boilers/steam generators
- Turbines
- Condensers
- Ash removal/transport systems
- Air preheaters
- Gas preheaters
- Flue gas denitrification systems (DeNOx)
- Dust collection systems (electrostatic precipitators)
- Flue gas desulphurisation plants (FGD)
- Cooling water systems and towers
- Pipes and sewers
- Tanks
- Fittings & containers
- Heat exchangers
- Chimney stacks
- And many more

BUCHEN has branches across the whole of Germany, in other European countries as well as in the Middle East

- BKS branches
- BUCHEN branches
- BKS & BUCHEN branches

Being part of the REMONDIS Group, both BUCHEN and XERVON have access to the capacities of one of the world's largest recycling, service and water companies

XERVON – a leader in technical services

Together, BUCHEN, XERVON and their subsidiaries and sister companies make up the specialist industrial services division within the REMONDIS Group. Being one of the leading providers of technical services, XERVON's core areas of business cover scaffolding work and insulation work. In addition, other XERVON companies offer maintenance services, surface technology services and refractory services primarily to the chemical and petrochemical sectors.

Fast and reliable: cleaning up incineration residue

If the properties of the fuel change in a boiler – such as its calorific value, moisture content or the size of the pieces – then this not only alters the speed that the fuel is dried out, ignited and burnt off but also where these reactions actually take place. The results are unwanted deposits along the whole of the heating surface and steam generator which in turn makes the plant less efficient to run.

Our cleaning technology: sand-blasting, dry ice blasting (CO_2), vacuum blasting or high pressure water jetting

Your specialists for removing & disposing of all types of fouling

Boiler operators need a reliable and competent partner to carry out any necessary cleaning and repair work whenever it may be required so that their equipment runs exactly as it should. This is essential if they are to meet their own supply and inspection deadlines. Regular cleaning work is, therefore, key for operating and maintaining such facilities.

A certain amount of residue is always left over when waste is incinerated. Different types of deposit and slag build up on the heating surface of the steam generators – a result of the chemical and physical properties of the fuel. This fouling affects the way heat is transferred, the greater flow resistance pushes up the plant's consumption of electricity and, in the worst case scenario, the plant breaks down completely.

Careful planning and good teamwork between the operatives and partners are a must if a boiler is to be cleaned quickly and the plant up and running again in as short a time as possible.

Maintaining negative pressure/substituting induced draught

If the induced draught fans are out of action during an inspection, then we can, on request, provide a suitable substitute. Our mobile heavy duty vacuum dust collecting equipment can, of course, also be used in the case of a breakdown.

> Our services

- Boiler cleaning services
- High pressure water jet technology
- Detonative cleaning services
- Air preheater cleaning services
- Vacuum work
- Air/gas preheater cleaning services
- Chemical cleaning services
- Regular cleaning work
- Dry blasting technology
- Stud removal/stud welding
- CO_2 blasting
- Rope access cleaning
- Waste management

> Your advantages

- A wide range of services for power plants and incineration plants
- Highly flexible depending on the particular task
- Supply of equipment (varying output/volume flow rate) to suit different requirements

We'll keep things clean – with a suction capacity of up to 8,100 m^3/h

Our mobile heavy duty vacuum units and high performance vacuum / suction trucks are able to vacuum up dusty, dry, semi-solid and liquid substances. Depending on the work, the materials can be blown, tipped out or discharged into big bags.

Technology for each and every need
Our equipment can be used for many different situations as they have such a powerful output and can cover a radius of approx. 300 m without having to be moved.

All our machines have the necessary licences so they can convey hazardous materials involving WEL (workplace exposure limit) values. We use H class filters when handling dust that is hazardous to health. As our machines have been made with a special steel alloy, they are also able to vacuum up a whole range of aggressive substances.

Depending on the local conditions, the materials can be blown, tipped out or discharged into big bags.

> This method is suitable for

- Dusty substances
- Dry materials
- Paste-like products
- Liquid substances
- Hazardous products

A powerful multi-functional machine for clean results

We have developed our own special system for cleaning air coolers, which can be used during turnarounds as well as in the case of a breakdown

> AIR COOLER CLEANING SERVICES

Precision, high pressure cleaning

Air coolers and air cooled condensers are used in waste incineration plants, RDF plants and biomass-fired power plants to condense the steam back into water. These are heat exchangers with finned tubes that cool the medium down by allowing the heat to pass to the surrounding atmosphere.

Automated high pressure cleaning systems
However, if there are deposits in these systems, then it takes longer to cool the medium down, the condensation process is made more difficult and the power plant operates less efficiently.

BUCHEN KraftwerkService has developed its own automated high pressure cleaning system that has been adapted to the special features of air coolers and air cooled condensers. This specialised system uses a gentle but highly effective process to clean these sensitive machines. Moreover, by using a combination of ladders and sliding frames, we are also able to clean large areas within no time at all.

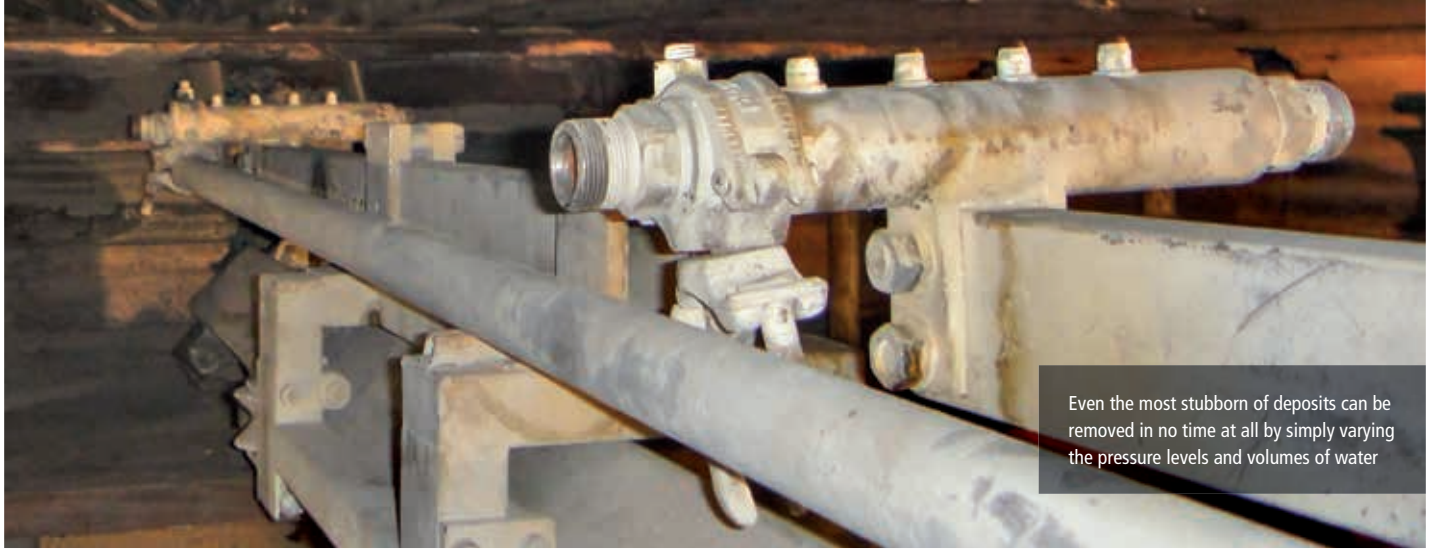
Our semi-automated equipment is also used to carry out any precision work – with our specialist operatives controlling the sliding frame using remote control. This fast and highly effective cleaning method improves heat transfer and enhances the efficiency of the plant.

This fast and highly effective cleaning method improves heat transfer and enhances the efficiency of the plant or process.

The water runs through the sensitive finned tubes – always from the same distance and at the same angle – and removes the residue. A system that is extremely gentle on the material

> Your advantages

- A clear improvement in efficiency levels
- Excellent cleaning results
- Less time needed to complete the work
- Specific areas can be targeted
- Greater effectiveness
- A material-friendly system as specific areas can be targeted
- The large number of jets allow large surface areas to be cleaned at the same time
- A safer system for our operatives



Even the most stubborn of deposits can be removed in no time at all by simply varying the pressure levels and volumes of water

It speaks for itself: our self-contained system for cleaning air preheaters

The flue gases (exhaust gases) generated by the combustion process are used in the air and gas preheaters at power plants to heat up the fresh air required for the incineration process. As the fuel does not have to heat up the air, the plant needs fewer raw materials and the boiler's heating surfaces can be made smaller.

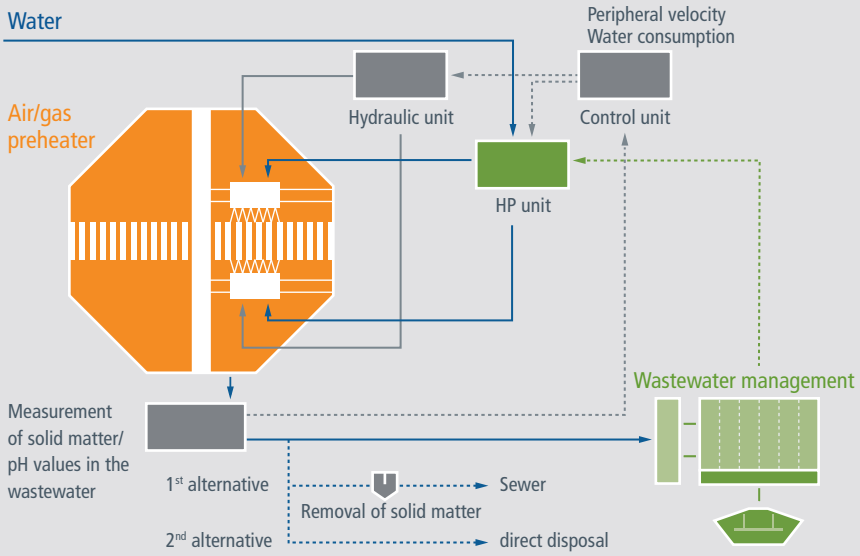
The cleaning process

Deposits on the heating surface of air and gas preheaters cause a whole range of problems and have a major impact on the plant's operations: the amount of heat transferred is gradually reduced and the negative pressure in the system rises. The result: forced draught fans and induced draught fans are unable to work as effectively as they should. Consequently, the power plant operates less efficiently than before.

BUCHEN KraftwerkService has designed and developed its own fully automated, computer-controlled system for cleaning air and gas preheaters using high pressure water jets. This well-engineered system is mobile, self-contained and only needs electricity and water.

This UHP water jetting system enables the heating surfaces of air preheaters to be rinsed off and cleaned more effectively and more rapidly than ever before. By varying the pressure and the volume of water, we are also able to remove even the most stubborn of deposits within no time at all.

The method used to clean air preheaters plus the optional services of wastewater management and the transport/disposal of the residual materials



> Your advantages

- Optimum cleaning results
- Shorter cleaning times
- An extension of plant availability
- Shorter turnarounds
- A clear improvement in heat transfer
- A clear reduction in Δp (differential pressure)
- Water jets can be accurately controlled
- Equipment can be run on electricity or diesel
- Optional service: wastewater management

By collaborating with the other companies in our group, we can offer optional services such as wastewater management

A powerful solution with a host of advantages

We deploy wet chemical processes to remove stubborn deposits from the outside or inside of plant facilities as well as residue caused by other wet cleaning methods. Before a project begins, we must first decide how much and what type of chemical will be needed.

Contaminated plant parts that are hard to clean using conventional cleaning methods

Our wet chemical cleaning systems are able to remove deposits from the narrowest of spaces

If requested, we can also use our compactor equipment to reduce the volumes of sludge generated. Call us to find out more!

Neutralisation process, Cleaning in Place (CIP)
Cleaning systems involving chemicals are primarily used to clean plant sections found at power plants, waste incineration plants and boiler plants as well as at chemical, food processing and industrial businesses (refineries). Everywhere, therefore, where the type of material and deposit make them necessary or if this method means better results can be achieved – especially in sections or facilities that are particularly difficult to access. Cleaning in Place (CIP) systems are primarily used here. Thanks to this type of cleaning process, the machine or facility part can be cleaned by regulating the use of cleaning detergents, pressure levels and temperatures (a closed-loop rinse cycle) without the system having to be dismantled first. Excellent cleaning results can be achieved using this method in, for example, combustion chambers, superheaters, convection zones, containers, pipes and fittings.

> Your advantages

- Less dust is generated compared to other cleaning methods such as sandblasting/dry blasting
- Less residue is produced
- Less time and money is required for waste disposal activities
- A material-friendly system as it is less abrasive
- Can clean parts that are difficult to access

Bespoke formulas
As with any cleaning process, it is essential to first take a detailed look at the part that is due to be cleaned. A sample of the residue must be taken in order to determine exactly what chemicals can be used. Various solutions are then tested out on this sample in the company's own laboratory. By doing so, we can create the best cleaning detergent and, as a result, achieve the best cleaning results.

Acidic cleaning solutions
We generally use acid solutions for our wet chemical cleaning processes – and only ever suitable chemicals that have been tried and tested. The acid content of the cleaning detergent is, of course, measured and monitored continuously. Once the chemical cleaning process has been completed, the cleaning detergent is neutralised in a closed loop system. The neutralised solution is then used to rinse the treated surfaces one last time.

Rapid but top quality work

Detonative cleaning technology is used to remove deposits of dust, dirt and other kinds of material found in the combustion chambers of large boilers, in modern fluidised bed boilers and in downstream flue gas treatment systems – both offline during a scheduled turnaround or online while the plant is still in operation.

Online or offline

Our detonative cleaning system can be deployed at the beginning of a turnaround whilst a plant is still cooling down. During this phase, large volumes of deposits are broken up into smaller pieces within no time at all so that they can be removed from the chamber. Detonative technologies are also combined with standard cleaning systems.

If the plant is online, then the temperature of the explosives is always kept below 70°C to ensure the facility is safe at all times. The main advantages of this method are: shorter turnaround periods, safer working conditions, less scaffolding and lower volumes of residual cleaning liquids. A special camera allows the operatives to monitor their work both before and after the plant has been cleaned.

High-temperature camera

In many cases, plant operators are not able to locate exactly where the deposits in the combustion chambers actually are. Whilst their sensors pick up the fact that their plant has deviated from the standard parameters, they are unable to provide information about the extent or the quality of the deposits. It is essential, however, that the operatives see exactly what type of deposit or malfunction is behind the problem as well as how large it is and where it is located. This is where our high temperature cameras come into play, allowing us to inspect boilers and other plant parts while they are still online.

The images are fed to a monitor enabling us to closely analyse the situation. This detailed information directly influences the plans that we draw up and ensures that we always deploy the most effective system. We are, for example, able to calculate the exact amount of explosives we will need in advance for pre-scheduled detonative cleaning jobs as well as select the most suitable equipment. The images can, of course, also be documented as video material.

The shock waves created by the detonation process dislodge the various types of deposit

> Our services

- Detonative cleaning services in industrial facilities
- Controlled explosion of unsafe structures
- Online detonative cleaning services
- Explosions in hot material
- General detonative services
- Controlled explosion of boulders
- Controlled explosion of (parts of) buildings/structures

> Your advantages

- Shorter turnaround periods
- Lower costs as less scaffolding is needed
- Safer working conditions for operatives when they plan turnarounds

One process, two states of matter

Dry ice blasting technology is an eco-friendly and cost-effective method used to prepare and clean surfaces. It is particularly suitable for removing deposits from metal parts and metal surfaces.

Dry ice blasting – a useful and cost-effective alternative to conventional cleaning systems such as high pressure water jetting or sandblasting

Cleaning with dry ice

For this method, dry ice pellets made from frozen carbon dioxide (-79°C) are blasted at the surface at very high speed. Our dry ice blasting technology can also be used to carry out preliminary cleaning work on certain types of fire damage. It has already proven to be a highly effective way of cleaning electrical systems or distribution cabinets (communication systems) that have been damaged by fire! This method creates a thermal shock, the surface cools down immediately and the coating or deposit contracts. Cracks appear as a result of this sudden reduction in volume – the material becomes brittle.

Lacquers and other coatings will be removed gently

As the dry ice pellets have a high level of kinetic energy when they hit the material, they loosen the deposits on the surface. The volume of the dry ice increases by 700 times at the point of impact as it changes from a solid to a gaseous state (sublimation).

Areas of use:

To clean

- Tools and equipment parts
- Moulds, containers and tanks
- Caps, dryers and ventilation units
- Filling, production and mixing facilities
- Switchgears and insulators
- Motors, generators and turbines
- Conveyor rollers and belts
- Hot moulds and tiles

Also

- Fire restoration work
- To remove scale and slag
- To remove coal and fatty residue

Dry ice blasting technology makes the most of the thermal and kinetic energy of the pellets which loosen the deposits and make them brittle. The deposits are removed from the surface as a result of the pellets suddenly changing from a solid state into vapour.

> Our fields of business

- Power plants and incineration plants
- Steelworks and foundries
- Timber processing industry
- Bakery and food industry
- Electrical/electronics industry
- Packaging industry
- Plastics industry
- Automobile industry
- Tyre industry

> Your advantages

- No residue from the pellets
- A non-abrasive blasting method
- No assembly/disassembly necessary
- Increases levels of health and safety and fire protection
- Can be used to clean damp/water-sensitive machinery
- Eco-friendly
- No harmful gases are released
- No secondary waste generated
- Safe and non-toxic

Thanks to our rope access technology, we are able to reach plant sections that are extremely difficult to access, such as combustion chambers at power plants

> ROPE ACCESS CLEANING

Abseilers providing industrial services

Conventional scaffolding may not be an option for carrying out work on areas that are difficult to access or may not be economically viable. This is where our industrial climbers come into play – working at height using their rope equipment to perform cleaning work, checks, inspections and maintenance work.

Cleaning parts that are difficult to reach

Our portfolio of services includes cleaning membrane walls, combustion chamber ceilings and collecting pipes as well as cleaning and servicing boiler houses at power plants. The work carried out by the industrial climbers hardly affects the plant's normal operations at all. This method is quick, safe, effective and inexpensive.

No hanging about

Our cleaning specialists work with special rope access technology. This is used for all types of rope access work performed on buildings or structures that are difficult to access – such as on radio towers, in silos or in industrial facilities. Each individual climber is secured to two separate ropes at all times to keep them safe. Our industrial abseilers are experienced and well trained industrial cleaning specialists who always use special and safe technology as well as project-specific equipment.

Innovative rope access cleaning work is a cost-effective alternative.

> Areas of use

- Cleaning work in large combustion chambers, e. g. membrane walls, ceilings and collecting pipes
- Cleaning and maintenance work in boiler houses at power plants
- Cleaning and maintenance work in industrial facilities, e. g. cleaning supporting structures in/on buildings, cleaning silos (inside and outside)
- Cleaning work combined with detonative work, e. g. cleaning coal bunkers or silos
- Repairing façades
- Carrying out anti-corrosion work
- And much more

> Your advantages

- Full compliance with "Technischen Regeln für Betriebssicherheit 2121" (safety regulations/fall protection)
- Reduces the need for scaffolding, cranes and hydraulic lifting platforms
- We can react and perform the work quickly
- Plant-friendly method
- Safe work
- Industrial climbers are also experienced industrial cleaning specialists

Only qualified stud welders may carry out this specialist work using state-of-the-art welding equipment

Removing and welding studs in no time at all

Having a well-functioning refractory system is vital for many furnace systems, if they are to operate efficiently.

Stud welding/stud removal

The refractory lining and boiler pipe are anchored together by metal elements (studs). These are normally welded into place.

Our range of services also includes providing advice on the different qualities of material and types of anchor

BUCHEN KraftwerkService carries out all work required in this area both on the inside and outside of boilers – e. g. cleaning the boiler using dry blasting technology, removing old studs and smoothing down the surfaces. We only use modern and efficient hand-held welding equipment to perform this specialist work and only deploy qualified stud welders with valid welding accreditation.

> Our services

Stud welding:

- Supplying a range of anchor types and welding them into place in accordance with the customer's specific needs
- Providing advice on different qualities of material and types of anchor

Stud removal:

- Removing old studs e. g. boiler studs, Y/V anchors or tile anchors
- Smoothing down the surfaces

A wide range of geometries and anchor types can be welded as well as many different combinations of materials

> Your advantages

- Quick and secure welding results
- The whole of the surface of the stud is welded to the base material
- Effective transfer of heat (cooling process)
- A wide range of geometries and anchor types can be welded (studs, Y/V anchors, tile anchors)
- Many different combinations of materials possible: ferritic and austenitic anchors as well as nickel-based anchors combined with very different kinds of material

Outage costs are reduced considerably as our industrial cannons can be used whilst the plant is online

High precision cleaning

Our industrial cannons offer an effective way to remove particularly stubborn deposits – also when they are on surfaces that are difficult to access – as they can be targeted straight at the problem area.

Online cleaning work

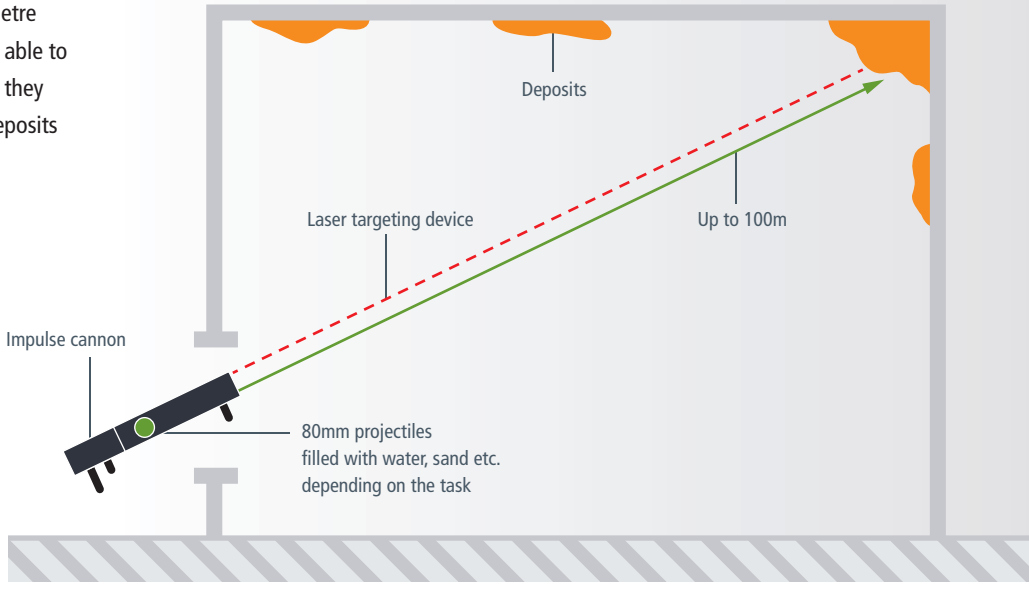
Our industrial cannons are operated manually. Plastic projectiles, filled with water, are blasted straight at the deposits on the walls of the boiler or industrial facility. The energy released at the point of impact breaks up the deposits causing them to come away from the surface and fall to the floor. Alternatively, the projectiles can be filled with sand or metal pellets. BUCHEN KraftwerkService has a team of experienced and qualified staff who know exactly how to use this technology and always adhere to BUCHEN's stringent safety standards.

Our industrial cannons are accurate to one square metre from a distance of 100 metres. As these cannons are able to reach areas that are practically impossible to access, they can also be used to remove potentially dangerous deposits before staff enter a facility.

> Your advantages

- Extremely accurate
- Can reach areas that are practically impossible to access
- Can be used to remove potentially dangerous deposits before staff enter a facility

How our industrial cannon works



We remove product residue, coke deposits, fouling and coatings using either automated or manual high pressure water jet systems

Impressive results without chemicals

Cleaning with high pressure water jets is one of the classic services provided by industrial cleaning businesses. Besides carrying out manual cleaning work, we also use automated technology that is not only highly efficient but also extremely safe.

Our high pressure pumps have an engine output of up to 600 kilowatts. Pressure levels can be adjusted to up to 2,500 bar depending on the amount of deposit/dirt that needs to be removed

Eco-friendly and non-abrasive

No matter what type of production plant a company may operate, it will always generate residue. Our automated and manual high pressure/ultra high pressure water jetting equipment is perfect for all plant facilities, parts and pipes that need to be free of impurities for operations to run smoothly. This cleaning system is environmentally friendly and non-abrasive.

This is because chemicals are not needed. This cleaning system is completely mechanical and makes the very most of the power of the water. We have the technical know-how and relevant equipment to perform this work in a wide range of environments.

> Areas of use

- Refractory concrete and SIC material
- Coke deposits on heat exchangers
- Algae and green patina on concrete and wooden cooling towers
- Deposits in pipes
- Rubber lining and coatings in plants, containers, pipes etc.
- Deposits in chimneys

Our UHP jetting equipment is able to remove even the most stubborn coke deposits from heat exchangers

We are also able to respond quickly to your needs as we have large stocks of cleaning systems and fixtures on hand

Additional services for those special cases

BUCHEN KraftwerkService uses many different types of cleaning processes and technologies which have been especially adapted to the requirements of power plants. Depending on the needs of our customers, we are also able to offer a range of additional special services.

Measuring wall thickness

The operators of fossil fuel power plants and waste incineration plants often request us to measure the thickness of their boiler walls once we have finished cleaning them. We use state-of-the-art technology to measure wall thickness.

Our measuring device has a high performance probe that can also measure wall thickness accurately at high temperatures. The results are recorded via an integrated data logger that supports raster formats and has been designed to store 50,000 individual measurements. Minimum/maximum values and alerts can be set and differential measurements performed to enable an immediate comparison to be made between the nominal wall thickness and the thickness actually measured. The results are transmitted to a computer via a mini USB COM port and then imported into Microsoft® Excel.

Sludge dewatering

We treat and dewater sludge and slurry to reduce the volumes of material that need to be disposed of. To be able to do this, we use heavy duty decanters, centrifuges and plate and frame filter presses. If required, we can also arrange for the materials to be collected, transported and sent for disposal.

Refractory services

Our sister company, SCHLÜSSLER Feuerungsbau GmbH, has been providing specialist refractory services for more than four decades now, lining industrial furnaces and boiler systems with suitable refractory materials. Besides developing a wide range of innovative refractory solutions for its customers – no matter whether it involves new build, repair, maintenance or renovation projects – SCHLÜSSLER also supplies custom-made refractory products.

We have drawn up stringent safety measures to provide maximum protection – to both human health and the environment

Health and Safety – protecting human health and the environment

One of the outstanding features of our company is its extremely high expectations regarding health, safety and environmental standards. Our 'Health and Safety Principles' were set out in writing many years ago. Today, they are an integral part of our process-oriented management system.

When it comes to industrial services, it makes good sense to work with a provider that has the highest health and safety standards

Responsible employees

Hazards, however, can only be avoided if you are aware they actually exist. Our employees, therefore, regularly take part in training courses to raise their awareness of safety and environmental issues. Training and further training courses ensure our employees always have access to the latest developments in their field. Moreover, their technical knowledge and workmanship skills are continuously being developed and fine tuned in courses held at our own accredited training centre.

Working as a team to keep safe

As a general principle, we only deploy experienced, safety-conscious operatives to perform work in critical environments or to carry out high risk tasks. Our specialists have access to state-of-the-art safety equipment, such as respiratory equipment and chemical protective clothing, which is checked regularly by the company's own workshops to make sure it is in full working order at all times.

> Our qualifications

- Qualified industrial cleaning specialists
- Specialist staff qualified to use high pressure cleaning equipment
- Specialist staff qualified to control high pressure equipment
- DEKRA-certified sandblaster training course
- Systematic provision of general and task-specific instructions (monitored with SAP)*
- Medical check-ups in acc. with G 1.4 / 2 / 8 / 20 / 25 / 26.3 / 30 / 32 / 40 / 41
- A sound knowledge of German
- Training courses to use respiratory equipment
- Training courses to use high pressure equipment (theory and practice)
- SCC courses and exams
- Qualified fork-lift truck drivers (50%)
- First aiders (30%)
- Safety officers (15%)
- Own occupational safety experts and QM officers
- Own workshop for servicing respiratory equipment

* Health and safety instructions are documented in the safety passports

Certificates/Accreditations

- Quality management, ISO 9001
- Safety management in acc. with SCC[P]
- Specialist business in acc. with WHG (Federal Water Act)
- VGB SeSAM contractor's qualification
- DEKRA Confirmation of Conformity

BUCHEN®

WORKING FOR THE FUTURE

BUCHEN is part of the REMONDIS group, one of the world's largest recycling, service and water companies. The company group has branches and associated businesses in more than 30 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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