

Your one-stop shop for
full service maintenance



> XERVON Instandhaltung GmbH

With its highly qualified staff and specialist workshops, XERVON provides a full range of top quality services for maintaining buildings and facilities

xervon-instandhaltung.com



The XERVON companies – experts providing technical and construction services for new-build and maintenance projects

Industrial services united in one division

XERVON has become one of the world's leading providers of industrial services with its specialist companies offering a wide range of maintenance, building preservation and specialist personnel services as well as technical services such as scaffolding, insulation and surface technology. The companies draw up bespoke solutions for their customers supporting them as they build and then operate their industrial facilities, buildings and civil engineering structures. Moreover, they provide all of their perfectly coordinated services themselves whether it be an individual service or the whole package – whatever suits you best.

Safety is top of our list

Economic efficiency and sustainability are the driving forces behind today's business world. As far as XERVON is concerned, safety is inextricably linked with these. We provide our customers with safety measures that go far beyond the norm. Indeed, there is a deeply rooted health and safety philosophy in all of our companies – something that is much appreciated by our customers and not just those from the chemical and petrochemical sectors. Our safety awareness, our decades of experience of working in a variety of sectors and our teams of highly qualified and committed employees all make XERVON what it is today: an experienced and reliable partner that delivers safe, cost-effective and highly professional solutions. Both at home and abroad.

A strong network

Together, XERVON, BUCHEN and their subsidiaries and sister companies make up the specialist "industrial services" division within the REMONDIS Group. The BUCHEN companies also offer a wide range of technical services such as:

- industrial cleaning processes
- efficient sludge dewatering systems
- reactor services in a nitrogen atmosphere
- 24/7 emergency management service

This means that you are not only able to use the services of the individual businesses but can also benefit from comprehensive multi-service concepts covering a wide range of production and maintenance tasks – with assured quality, extensive know-how and state-of-the-art technology.

Being part of the REMONDIS Group, BUCHEN and XERVON have access to the capacities of one of the world's largest recycling, service and water companies – a real advantage for our customers

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Maintenance adds value to your business

Whilst many companies have recognised the importance of maintenance, the majority of production facilities are still not making the most of the many opportunities available to them to optimise efficiency and cost effectiveness. With costs and the pressure on prices rising all the time, there really is no time to delay.

Our maintenance experts have years of experience of working in a whole range of industry sectors

We take care of your facilities

XERVON Instandhaltung GmbH offers detailed, customer-specific solutions to ensure your production facilities are maintained in the best possible way – from planning and carrying out individual measures, to drawing up strategies and full service packages for specific areas of your plant or to concluding long-term contracts to take over full management of your site with budget responsibility. XERVON adds value to your business operations.

Rely on our experience

XERVON has been working together with a large number of companies from the process industry as well as from many other industrial sectors for over 40 years now. Thanks to our expertise, we have mastered a whole range of challenges and projects with our customers – who not only benefit from our comprehensive range of services but can also rely on our extensive experience of all areas of maintenance. An unbeatable combination.

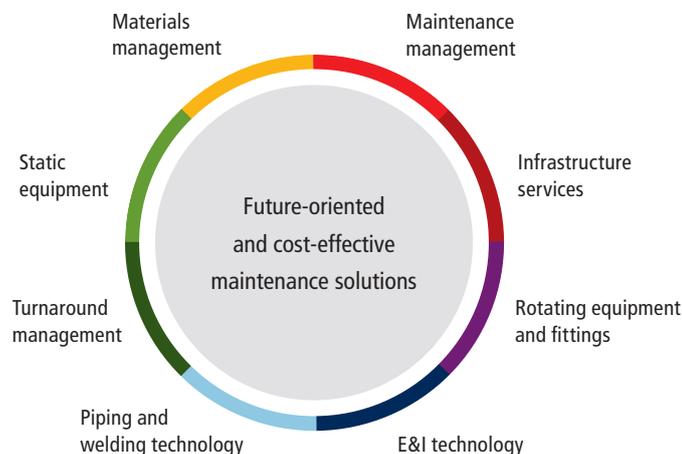
Into the future with comprehensive concepts

Analysing situations, drawing up and implementing concepts: XERVON creates integral solutions that take all aspects of maintenance into account. This includes looking at corresponding infrastructures (such as materials and energy supply, plant fire brigades and plant security), taking a close look at spare part and materials management, providing QHSE services when required and much, much more. As a result, we draw up successful and sustainable all-round concepts to cover your maintenance needs – so that your production processes run smoothly and safely.

Maintenance experts

XERVON's wide range of maintenance expertise has been united in its company, XERVON Instandhaltung GmbH. Flexible structures, a committed and experienced team of commercial and technical specialists and state-of-the-art workshops and technology all form the basis for successful partnerships built on mutual trust.

XERVON Instandhaltung GmbH



XERVON Instandhaltung GmbH operates in diverse fields of business enabling it to offer its customers a comprehensive package of future-oriented and cost-effective maintenance services



We are able to draw up flexible solutions for your investment projects, too. Why not contact us?!

Starting at the top

When our customers commission us to carry out maintenance tasks at their facilities, they expect a faultless performance. Their requirements cover key issues such as maintenance costs and follow-up costs, the availability of their technical equipment, quality and, last but not least, safety. XERVON's employees successfully meet all these conditions each and every day. Moreover, we are constantly looking at ways of optimising our range of services – not only to benefit our business but also, and above all, to benefit our customers.

Further development and optimisation

Modern maintenance management involves much more than simply executing individual tasks. Each day we work together with our customers to continuously optimise their maintenance programmes by looking at key performance indicators, budgets, incentive systems, maintenance strategies, integrated IT systems and performance-related payment models.

> We can offer you:

- Analyses and feasibility studies (due diligence)
- Performance-related contracts
- Implementation and project management
- Implementation of KPIs and incentive systems including controlling
- Best practice transfer via our competence centre and network of locations

Turning an idea into a success story

A further important factor that must not be ignored is ensuring that projects are implemented properly. Many errors can be made when trying to set up an efficient maintenance programme or planning outsourcing measures and such errors can affect the whole of a project. Thanks to the sensitive way it deals with employees, its legal knowledge, its analytical and project management skills, its bespoke service packages – for individual services or as a full service provider – and its many other areas of expertise, XERVON makes sure that your initial idea is transformed into a success story. We have proven many times over that we are capable of mastering complex tasks. In 2011, we were awarded a prize by an external jury in recognition of our business practices.

XERVON was presented with the prestigious MAINTAINER Award for the implementation of its programme at a new business. An independent jury of experts named XERVON the "Best Service Provider 2011"!

XERVON has extensive know-how of outsourcing (legal), transfer (personnel), performance-related contracts, implementation, optimisation (analyses, methods) and innovative concepts





Our extensive range of infrastructure services also includes managing rail operations

By no means just an ancillary service

Production plants tend to have a complex infrastructure. This is particularly true for chemical businesses operating within the sophisticated networks found at industrial estates and chemical parks. Numerous ancillary facilities are required at such locations to provide the main production plants with the supplies they need. If production activities are to be cost efficient then it is essential that such supply networks operate safely within a well-functioning infrastructure – a business area we know extremely well: we can carry out all or just a number of infrastructure services on your behalf. The choice is yours.

Whether it be site logistics, supply work or waste management: being a specialist for infrastructure services, we create tangible benefits for our customers

The highest levels

We are able to offer the highest possible levels of control and optimisation by taking over the management of your infrastructure, buildings and ancillary facilities in addition to being responsible for the maintenance of your technical equipment. You concentrate fully on your core business – and we do all the rest. This system provides the greatest potential for making savings over the medium term.

! Optimum support with XERVON Utilities

XERVON Utilities GmbH offers numerous supply and waste management services for a diverse selection of production areas at industrial estates and chemical parks. Find out more about our wide range of services at > xervon-utilities.com!

> We can offer you:

- Maintenance of supply and waste management technology
- Management and implementation of environmental analyses
- Extensive QHSE services
- Management of plant fire stations and rail operations
- Management of energy supply operations
- Maintenance of roads and drainage systems
- Building service equipment
- Management of canteens
- Provision of plant medical care services
- Plant safety

Keeping things moving

Machines are – in the truest sense of the word – the engines of a production plant and so are at the heart of maintenance programmes. The range of tasks, which the maintenance specialists must carry out, is as complex as this so-called rotating equipment is varied. We maintain your machines and fittings as well as inspect, service, repair and optimise them. Professionally and independently – as we are not tied to any particular manufacturer.

Competent and perfectly equipped

By holding targeted training courses at regular intervals, we ensure that our experts are among the best in their field. This is documented by numerous accreditations and certificates from a wide range of areas. Moreover, we have our own perfectly equipped workshops where, if necessary, we can make spare parts or recondition your facility components using, for example, metal spraying processes. We have an extensive range of specialist tools and machines to enable us to provide these services such as valve test benches, pump installation and compressor tools, special hydraulic devices, grinding and cutting machines for fittings, lapping machines and gasket cutters to name but a few.

Our speciality: condition monitoring

One of our specialties in this particular field is condition monitoring. We continuously monitor the life cycle of your machines so that you are not caught out by an individual machine part or a whole unit breaking down. By carrying out various types of offline and online measurement procedures – for example vibration and oil analyses, monitoring machines using remote system diagnostics or thermal radiation – our engineers are able to reach reliable conclusions



XERVON's preventative maintenance measures considerably reduce the risk of breakdown – especially for machine units

about the condition of the facilities as well as to set limit values. By doing so, we are able to prevent unexpected downtime and can accurately localise and plan any necessary maintenance and repair work. For your machines this means: greater reliability and a longer operational life!

Whether it has to do with work safety, handling hazardous materials or radiation protection, we always adhere to very strict QHSE standards – and the same applies to our subcontractor management system

> We can offer you:

- Maintenance and overhaul of
 - pumps: all models, sizes and operational areas and from all manufacturers (KSB, Egger, Wernert, SIHI, Allweiler etc.)
 - manual valves, control and safety valves, flaps, cock valves
 - compressors and compactors, turbines, driving mechanisms, ventilators, mixers, extruders, centrifuges, filters, decanters, transmission gear, conveying systems, lifting gear, cranes, lubricating oil and cooling systems, engines, couplings, shafts, bearings, special machines
- Modifications in acc. with BetrSichV, CatA and CatB (Ordinance on Industrial Health and Safety)
- Laser alignment of machine units in acc. with DIN
- Conversion work in acc. with the TA Luft (Federal Emission Control Act)
- Production of spare parts as needed
- Drawing up of maintenance, overhaul and inspection plans
- Documentation and TÜV inspections
- Technical planning
- Analyses to determine cause of damage
- Condition monitoring
- On-site service with a 24/7 on-call service



We are very happy to plan and manage renovation projects on your behalf as well as to deal with all the documentation!

Everything under control

Manufacturing (petro)chemical products is a complex process that requires cutting-edge facilities and precise control instrumentation. Thanks to our electrical and instrumentation services, we ensure that all the process control systems in your business operate smoothly.

From A for alarm systems to W for weighing technology

Our on-site specialists attend to your electrotechnical units, process analytical technology and reporting chains and also carry out the periodic tests that need to be performed in acc. with the BetrSichV, BGV A3, (Ordinance on Industrial Health and Safety/Equipment Inspection) on your behalf. We are

familiar with all common components and install the spare parts you need – independent of any particular manufacturer – to make sure your operations run smoothly and safely. To be able to do this, we run our own state-of-the-art electrical workshops. This is what we understand by expertise and flexibility.

XERVON Instandhaltung also provides its expert E&I services outside Germany. Its subsidiaries are in high demand – especially in the Middle East – for commissioning and maintaining a wide variety of electrotechnical systems

> We can offer you:

- Installation, calibration and maintenance of electrotechnical units and reporting chains as well as I&C field devices:
 - switchgear (0.4 kV – 110 kV), low, medium & high voltage (plant power supply systems)
 - propulsion technology (electric motors)/converter technology
 - lightning protection (exterior and interior lightning protection)
 - electric trace heating
 - fittings, flaps, flow control valves, sliders inc. control drive
 - process control systems and control technology
 - fire alarm, alarm and communication systems
 - weighing, dosage and loading technology
 - lighting systems etc
- Performance checks on security-related systems (SIL) and safety equipment in acc. with the WHG (Federal Water Act), gas detection systems, electrical explosion protection systems etc
- Servicing, calibration and repair of process analytical technology, online analyses
- Carrying out periodic tests on electrical facilities and resources (BGV A3) as well as monitoring testing devices
- Checking and installation of radioactive measuring equipment, responsible for radiation protection and radiometry
- Planning, project management and documentation (CAD/CAE systems) of renovation projects or electrical installation work
- On-call service/emergency service
- Modifications in acc. with BetrSichV, CatA and CatB (Ordinance on Industrial Health and Safety)

Perfectly connected

Pipes are the lifelines of the process industry. They unite and supply all the different areas within your plant. Our pipe and welding experts ensure that it remains this way 24 hours a day. Moreover, they plan and draw up measurements, isometric projections and fastening concepts.

Our work stands out thanks to the safe and precise methods we employ – no matter what industrial sector we may be working in



Material logistics, installation, repair and maintenance

We manage the materials for you, organise delivery and prefabricate and install pipe fittings made of carbon steel, stainless steel and GFRP pipe systems. We maintain containers and tanks, repair damage and leaks in heat exchangers,

develop repair concepts for columns and much, much more. No matter what the task, top priority is always given to carrying out the work professionally with all necessary accreditations to protect people and the plants – both at our company and at our customers'.

You can also benefit from our years of experience of maintaining pipe racks

> We can offer you:

... in the areas of planning, processing, calculations

- Tender documents
- Resources (personnel, materials, tools, time)
- Fastening concepts, isometric projections, checking dimensions, engineering services, pipe construction
- Analysis of risks, strengths and weaknesses inc. optimisation

... in the areas of documentation, final inspections, invoicing

- Inspection certificates
- Documentation (isometric projections, pipe records, NDT, lists of parts)
- Prompt invoicing acc. to list of services, either as a fixed price or acc. to time needed (depending on the situation and the wishes of the customer)

... in the areas of execution and supervision

- Instructions (QHSE, risks), checking subcontractors
- Mechanical work, repair and maintenance, rotating and static equipment, pipe installation, welding work (tested in acc. with PED, HPO and constructional steelwork, DIN 18800, BetrSichV*)
- Overhaul of fittings and valves
- Prefabrication of pipes
- Coordination of subcontractor tasks
- QHSE management (health & safety coordinators, safety officers)
- Monitoring of work progress and optimisation of personnel resources

* Ordinance on Industrial Health and Safety

Geared up for turnarounds

Large plants, such as those in the petrochemical industry, need to be shut down and overhauled at regular periods to ensure the facilities remain safe. XERVON is one of the leading providers of technical services for maintaining complex facilities and components. Thanks to our turnaround management processes, we make sure that your facilities are in an excellent technical condition once operations start up again. And, as you can only earn money when your plant is running, our aim is to keep the downtime period as short as possible.

XERVON has a team of highly motivated experts as well as an extensive pool of equipment for carrying out large-scale turnarounds

Detailed preparation work

Precise planning and preparation work are key to having a perfectly run turnaround period. Working together with our customers, we draw up a meticulous plan of all the processes that need to be carried out. No matter what activities have to be performed during the turnaround – from overhauling machines, columns and heat exchangers, to installing or dismantling equipment, to changing filters – a reliable team of XERVON specialists are always on hand to help with their wealth of experience of similar such projects.

> We can offer you:

- Recording and processing data
- Drawing up tender documents
- Planning schedules & the deployment of staff/equipment
- Controlling the processes during the turnaround period
- Dismantling, exchanging, repairing and installing all plant parts
- Revamps
- Valve services
- Carrying out final inspections and drawing up documentation



Our specialists plan all the processes meticulously so that the turnaround is performed as efficiently as possible and operations can be restarted quickly

Acting with foresight

A number of very different factors have to be taken into account if a manufacturing business is to operate efficiently and competitively. One very important task is to have all the different facility parts maintained on a regular basis. A well thought-out maintenance strategy is essential if unplanned downtime is to be avoided. With investment opportunities and budgets shrinking, proactive maintenance concepts are becoming more and more important.



Keeping an eye on the whole picture

One of our responsibilities when looking after your facilities is to carry out all relevant maintenance measures. This involves us planning and coordinating the installation work all the way through to actually performing and documenting the individual tasks. Moreover, we are able to maintain a wide range of technology such as machines, instruments and containers, which we service within the set budget and often whilst operations continue as normal.

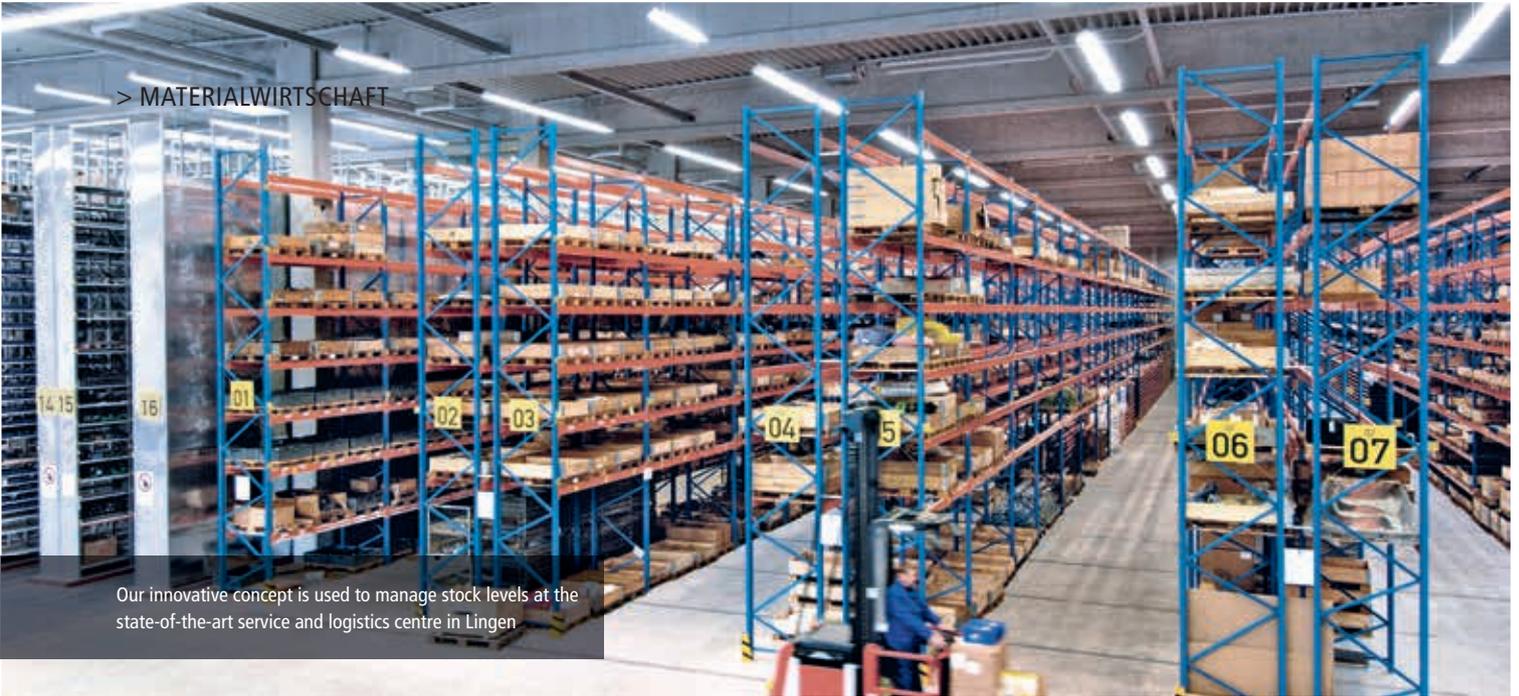
In addition, we deal with all dismantling and installation work, organise and coordinate ancillary activities and keep a strict eye on the quality and progress of the work being performed. Being part of a group, XERVON has access to many different technical services (e.g. industrial cleaning, scaffolding, insulation, corrosion protection) and is, therefore, able to react quickly and flexibly to changing conditions and, in many cases, make the most of these "short channels".

Dismantling and installation work often go hand in hand with renovation and repair activities. XERVON is also responsible for such tasks using its state-of-the-art steel construction and welding technology. Our focus here is on containers, heat exchangers, tanks etc. The result: we can offer you an all-round package ensuring that the essential components throughout your plant never stop working.

Together with you, we draw up a bespoke maintenance strategy to meet the specific requirements of your facilities and your budget

> We can offer you:

- Inspection, servicing, repair and modification of
 - containers
 - columns
 - tanks
 - heat exchangers
 - reactors
 - pipe systems
- Dismantling and installation work
- Constructional steelwork and welding technology
- Renovation of FGD plants, replacing DeNOx catalyst



Our innovative concept is used to manage stock levels at the state-of-the-art service and logistics centre in Lingen

There's more in store

The management of procurement activities, suppliers, warehouses and stocks all have a direct influence on acquisition prices as well as on life cycle and process costs and the costs of capital employed. Such activities determine the operational availability of production plants as well as the efficiency of production processes. At the same time, neither purchasing nor materials management are core business areas of a manufacturing company. So why not let us handle your materials management – and free up time for your core business!

Our services can be booked individually or as a full service package – whatever suits your requirements best

Materials on hand despite low stock levels

XERVON offers an alternative, cost-effective way of running and further developing your materials management system: being a full service provider we manage all your material-related processes and, if requested, your stocks, too.

The primary aim of our materials management system is to ensure spare parts are readily available whilst keeping stock levels to a minimum – which we achieve thanks to our years of know-how, our strong networks and our novel concepts.

> We can offer you:

... in the areas of purchasing and procurement

- Determination of requirements, processing of orders
- Management of contracts and suppliers
- Planning and scheduling, classic purchasing activities
- Use of electronic procurement platforms and catalogue systems

... in the areas of warehousing and logistics

- Acceptance, inspection, transfer and issuing of goods
- Handling hazardous materials in acc. with ADR
- Organisation of inventories

... in the area of standardisation

- Classification (e.g. eClass)
- Cataloguing and standardisation
- Checking and managing certificates

... other areas of expertise

- Automated collective invoicing, managing credit notes
- Documentation, creation and update of electronic lists of parts
- Logistics concepts in keeping with maintenance strategies
- Reporting and KPIs and use of integrated systems such as SAP MM

Top services whenever you need them

The quality of a service depends wholly on the skill and commitment of the personnel involved. We are proud to be able to say that our employees are among the best in their field. Listening to our customers, focusing on the quality of our work and keeping a very careful eye on work and environmental protection measures – we train and support our staff to do all of the above and make sure they are committed and motivated at all times, no matter which of their many tasks they may be required to perform.

Tackling the shortage of talent

XERVON has always attached great importance to training its own specialists. Every year, we offer young people the opportunity to do a wide range of technical and commercial apprenticeships at our company. By doing so, we are helping to ensure that we continue to have a team of qualified staff at all levels of our business. A concept that has proven to be a true success:

- Our apprentices have been top of their class for many years now – especially those learning a technical profession
- We teach our apprentices to think and act independently and strengthen their problem-solving skills – all of which are very important when they enter their profession
- An extensive programme of in-house further training and skills building courses plus cooperation work with universities and associations all strengthen the social and technical expertise and commitment of our employees

High quality at all times

A large number of specialists are needed for a limited period of time to carry out maintenance work during plant

downtime – whether it be planned or unplanned – and our own pool of employees is not always big enough to cover the need. To be able to counteract this shortage of staff and provide its customers with a reliable and flexible system, XERVON has set up a network of partner businesses which also have teams of highly qualified specialists: from industrial mechanics, to pipe, mechanical and plant fitters, to full teams of turnaround specialists. We are able to call on them during peak periods and send the staff to wherever they are needed. Thanks to these fixed partnership agreements, we are able to guarantee that the work will run smoothly and always be of the same high quality – something that we have proven for many years now.

A flexible and reliable supply of experts can be provided at short notice thanks to the specialist personnel service we have set up within our network

Specialist recruitment services within the group

The companies, FMS and IPS, have been operating in the specialist recruitment sector for many years and they became part of the REMONDIS Group not long ago. We have been working closely with them for years now and you, too, can benefit from their expertise, their high quality work and their flexible services.



XERVON is able to provide experienced specialists – from industrial mechanics, to pipe, mechanical and plant fitters, to full teams of turnaround specialists

Safety is our hallmark

Work safety for employees, responsibility towards people and the environment: more and more attention is being paid to risk management in industrial businesses. In order to be able to meet these growing demands, XERVON has set itself high quality standards that are continuously being assessed and improved.



The high levels of satisfaction among our customers prove we are right: we have developed long-term partnerships with many of our clients – also and especially when complex tasks need to be carried out

Identifying hazards, preventing accidents

A good safety record is always a sign of high quality standards and high job efficiency. In order to be able to continuously optimise our above-average standards, we have developed a special instruction programme for our employees. This also applies in particular to our managers who are taught, among other things, how to avoid accidents caused by human behaviour. Our aim is to permanently sensitise all our employees and establish an optimal safety culture for the benefit of all those involved.

Controlled management of subcontractors

The high safety standards, which apply to our staff, are, of course, also valid for the area of subcontractor management. We work exclusively with reliable, accredited and in-house approved partner firms who we are sure can fulfil our quality standards. Moreover, we use an SAP-based system that continuously monitors all parameters required for the accreditation and informs us of any deviations.



Be on the safe side with XERVON

Our high standards are documented by numerous accreditations and certificates. These include among others:

- DIN EN ISO 9001 (quality management)
- DIN EN ISO 14001 (environmental protection)
- DIN EN ISO 50001 (energy management)
- KTA 1401 (quality management for nuclear plants)
- OHSAS 18001 (work safety)
- SCC[®] (unrestricted certification inc. petrochemical industry)



> Our accreditations and certificates:

Company accreditations

- Specialist business in acc. with the WHG (Federal Water Act) and VdTÜV instruction leaflet 967 No. 17.4
- AD 2000 instruction leaflet HPO, HP 100R, TRD 201, DIN EN ISO 3834-2 (pressurised containers/piping)
- DIN 14675 BMA
- Category E constructor's qualification certificate, welding steel structures in acc. with DIN 18800-7:2008-11
- TÜV authorisation to re-stamp processed materials
- Module A1 for piping in acc. with Cat. II
- Module A1 for piping made of GFRP
- UTW (measurement of wall thickness using ultrasound)
- Accreditation in acc. with ISO 18436-2 (vibration analysis)
- DVGW certificate for gas fittings
- Accredited in acc. with ChemKlimaschutzV Section 6 par. 1 (Chemicals Climate Protection Ordinance)
- Dye penetration testing
- Leser certificate (special workshop)

Specialist personnel with the following certificates and accreditations

- Officially approved persons in acc. with BetrSichV* Section 14, electrical and non-electrical explosion protection
- Officially approved persons in acc. with BetrSichV* for diverse work equipment (inc. cranes, power-driven industrial roll-up doors, electrical equipment, pressurised containers and piping)
- Radiation protection officers in acc. with StrlSchV (Federal Radiation Protection Act) and RöV (X-Ray Ordinance for Radiation Protection)
- Water pollution control officers
- Hazardous incidents officers
- Waste management officers
- Hazardous goods safety officers
- Instructors for a diverse range of work equipment (inc. cranes, industrial trucks, cherry pickers)
- Gas measurement specialists
- ADR drivers, categories 2 to 9
- Qualified persons in acc. with BGI 836 and BGI 518 (gas detection systems/explosion protection)
- Approved persons for VT-2 and PT-2 (visual inspection/penetration testing)

The quality of our services is checked regularly – both by our own employees and by independent external experts

* Ordinance on Industrial Health and Safety

XERVON 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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A company of the REMONDIS Group