

Sustainable Solutions, Products and Service



HUBER SE

We promote the sustainable use of water, energy and resources.



Tradition, Quality and Innovation

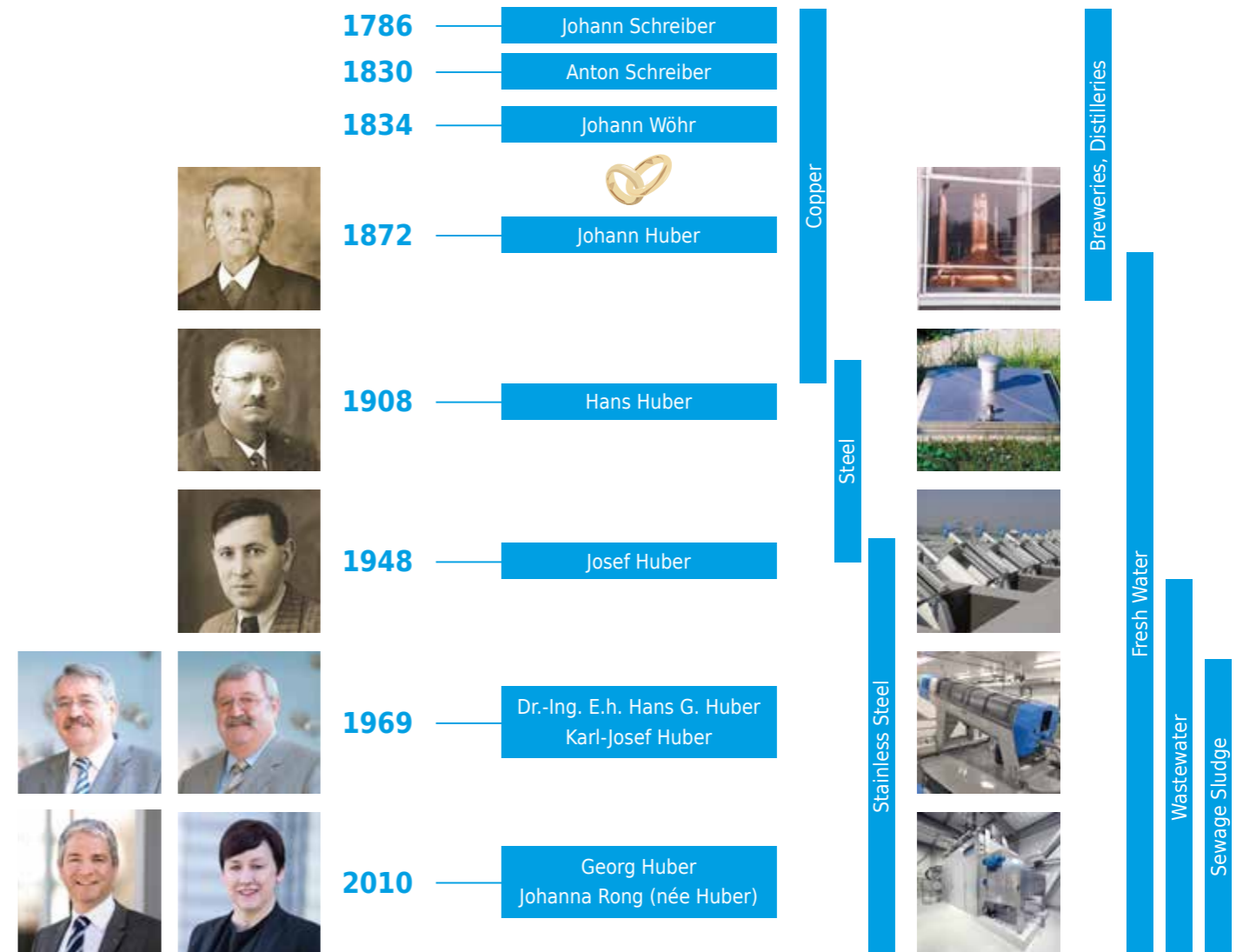
Future Needs the Past

We have a common vision as to how to shape the future together – the future of our Company and the future of the environment.

“
"Paths are made by walking."
 Franz Kafka

Backed by many years of Company tradition, we are prepared to shape the long-term approach for future development

- ▶ of our staff
- ▶ of our clients





We Feel Committed to Environment

Water is Life

Since 1993, UN-Water has organized the World Water Day every year on 22 March to bring the worldwide problems linked with water and sustainable use of water to the forefront of the public's attention.

We recognize that we cannot solve water problems throughout the world but are determined to make our contribution towards offering appropriate concepts and products which help to get nearer to achieving the goals of the Water Decade.

We know that water and energy are closely connected. To reduce climate-damaging emissions and the consumption of fossil raw materials, we place great value on the energy efficiency of our solutions. Our acting therefore takes into account the idea of sustainability as an essential element.

Increasing water shortage, the results of the climate change, finite resources, fast growing megacities – these are only some of the diverse challenges of the future we are faced with in different countries and cultures.

We are ready to rise to the challenge of developing for all these situations adapted novel concepts and to support people with our know-how and expertise.

To this end, we have developed energy- and resource-efficient products and concepts for

- ▶ drinking water supply
- ▶ wastewater treatment
- ▶ sewage sludge utilisation



In 2006, Federal President Horst Köhler awarded Dr.-Ing. E.h. Hans G. Huber († 2014) the German Environmental Award in recognition of his great contribution to the solution of the world water problems.

“No single measure would do more to reduce disease and save lives in the developing world than bringing safe water and adequate sanitation to all.”

Kofi Annan (UN Secretary General 1997 – 2006)



The Human Factor as the Centrepiece

Staff Motivation and Commitment: Team Spirit at HUBER

Skilled Staff Provide for Expertise and Know-How

As a result of the multitude of tasks that we feel committed to accomplish the most diverse knowledge is demanded from each member of our staff including our craftsmen's work. Our staff's expertise across all these disciplines is both the foundation and guarantee for the quality of our services and products.

Our success is based on their commitment and dedication to meet the highest expectations that our customers have a right to demand and expect from us and it is that which we are ready to fulfil.

With a view to better serve our customers' needs, we have meanwhile established a global team of experts which whilst offering us the opportunity to explore new market opportunities also involves new challenges for us with regard to our Company structure.

We know that we need to provide for permanent education and on-the-job training of our staff to ensure our progress in achieving our goals.





Innovations for the World of Tomorrow

Innovations for the Benefit of our Customers

"Nothing Endures but Change" – This describes our continuous striving for the optimal orientation of our company, policy of acting and product development.

The world around us is subject to continuous change as ecological, economic, social and legal conditions are changing and with them our customers' requirements and demands.

To serve these needs, innovations and creative ideas are necessary combined with the readiness and know-how to successfully implement such novel concepts.

We are ready to rise to this challenge and adapt our internal processes in terms of efficiency and effectiveness, develop new concepts and optimize existing products and solutions.

We use our own innovative strength and cooperate with scientists, universities, research institutions and suppliers to develop innovations, coupled with our vision of providing **optimum value for our clients.**

“

"If there is a way to do it better ... find it."

Thomas Alva Edison, inventor of the lightbulb





A Complete Range of Products, Solutions and Services

WASTE WATER SOLUTIONS

Products and Solutions for the Treatment of Water, Wastewater and Sludge

A complete range of products for the following areas:

- ▶ mechanical wastewater treatment
- ▶ mechanical sludge treatment
- ▶ thermal sludge treatment
- ▶ filtration and flotation
- ▶ residue treatment
- ▶ drinking water supply
- ▶ drinking water treatment
- ▶ heating and cooling with wastewater

Our solutions are designed for:

- ▶ wastewater treatment plants
- ▶ sewer systems
- ▶ industries
- ▶ water suppliers
- ▶ commercial and residential properties

We provide worldwide service.

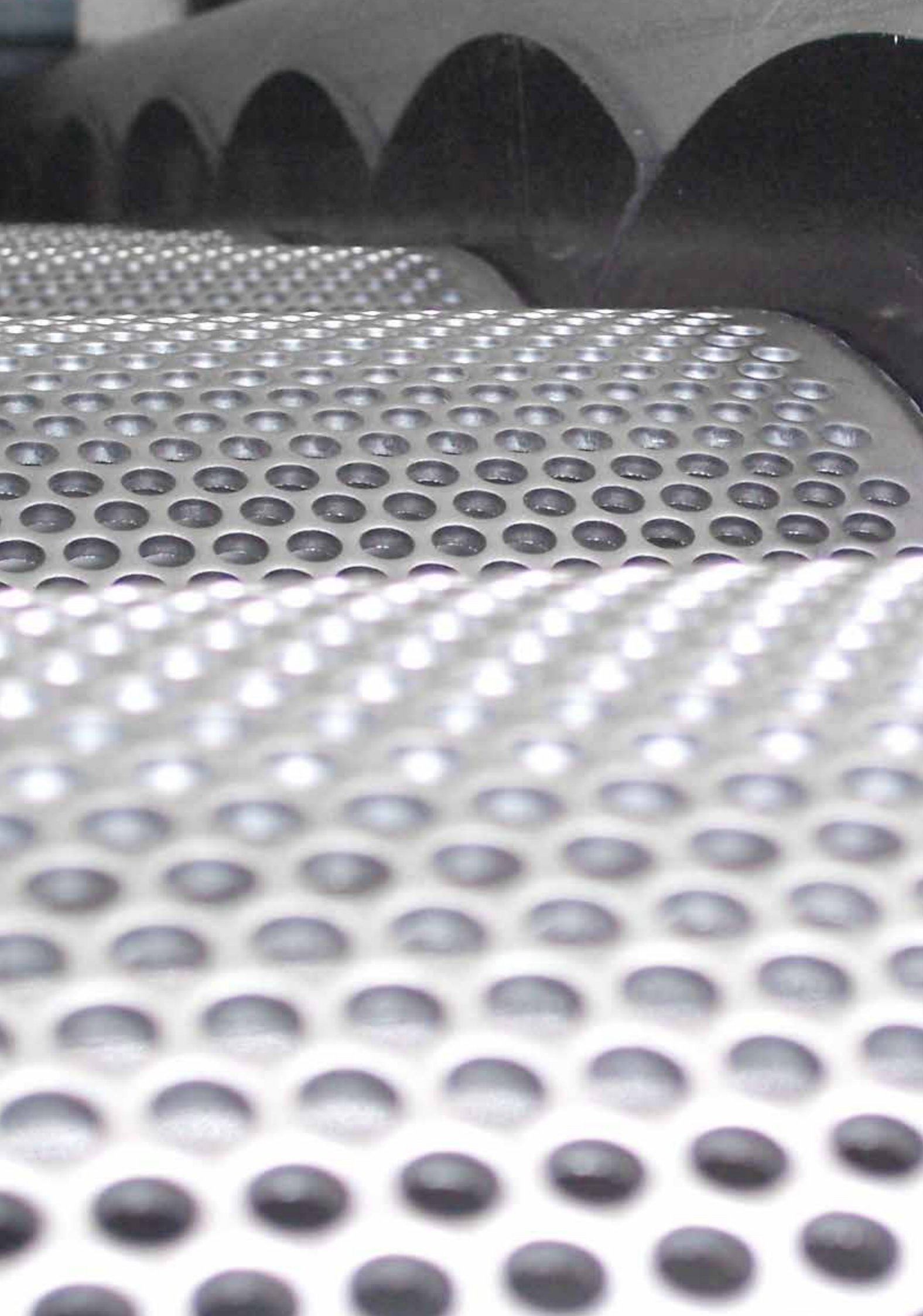
We are aiming to offer products designed to provide the highest level of value for our clients and the environment as we have and wish to present solutions for our customers that come from a single source with singular responsibility.

The foundation for the efficiency of our products is laid in the development phase and it is the combination of latest production machinery in conjunction with a global sales network, and worldwide service to ensure long-term functional reliability of our products, that enables us to offer superior quality solutions tailored to meet specific customer requirements throughout the world.

We feel committed to providing product support throughout the entire life cycle of all our products and solutions.

HUBER stands for best life-cycle value!





Mechanical Wastewater Treatment

HUBER Quality – Proven in Practice

Solid, Tailor-Made Solutions

- ▶ Screening
- ▶ Washing
- ▶ Transport
- ▶ Dewatering

As any further step of sewage treatment is built on mechanical wastewater treatment, we focus on each of its aspects.

Our range of machines for wastewater treatment encompasses almost every flow rate and a vast variety of bar spacings which copes with the requirements of almost every separation capacity, including fine screening which is a necessity for today's membrane technology.

These machines are used within inflow arrangements of sewage treatment

plants as well as in stormwater constructions (storm screening) with overflow arrangements.

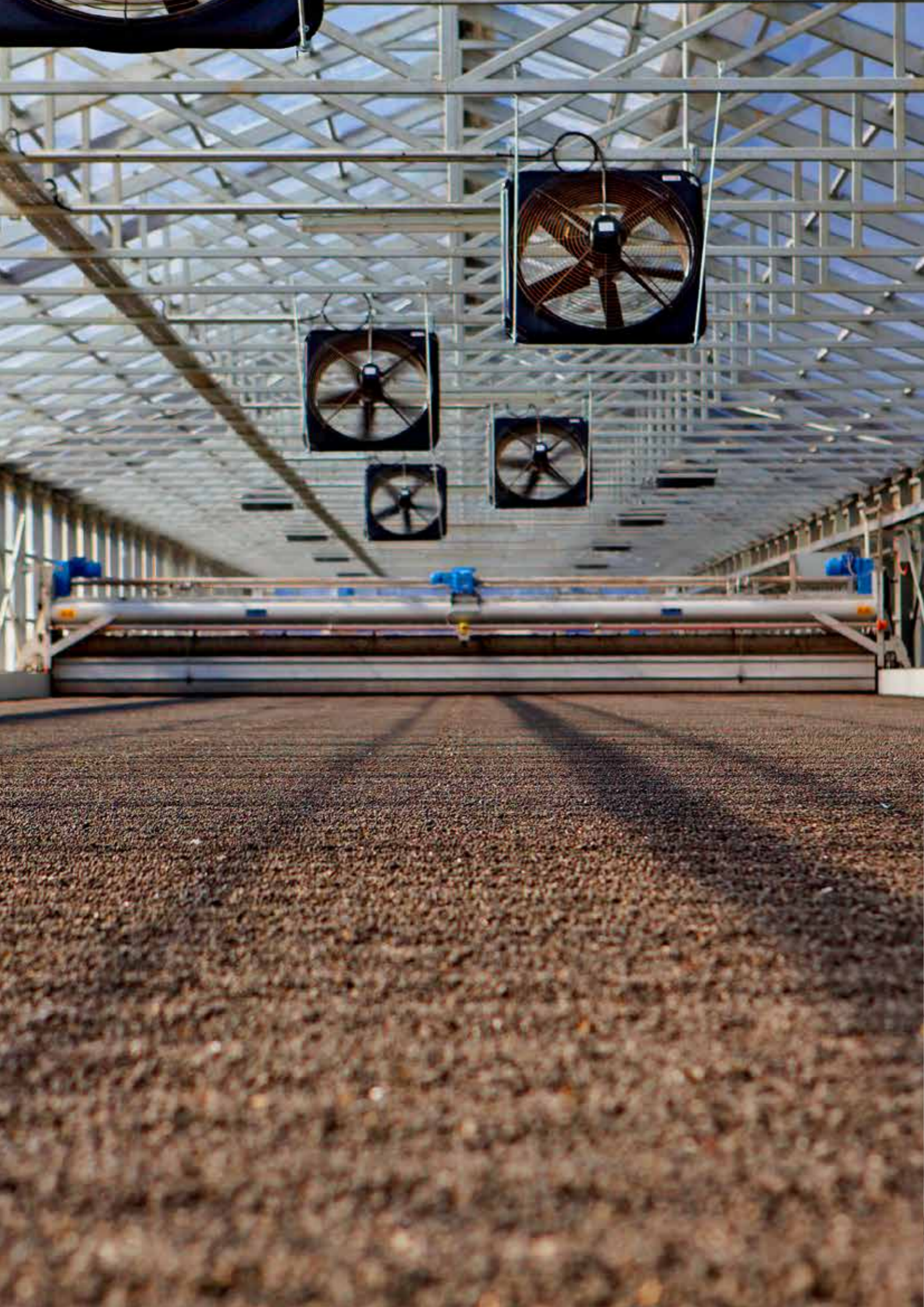
Their fields of application are

- ▶ municipal and industrial wastewater
- ▶ stormwater
- ▶ process water

HUBER products and solutions are available also for cost-effective disposal of the screenings removed from the wastewater.

With our expertise and extensive programme of grit treatment systems we are able to offer tailor-made solutions for any requirements. Grit becomes a valuable resource.





Sludge Treatment

Optimum Performance – At All Times

Adapted Solutions for Efficient Sludge Disposal

The more wastewater is treated worldwide, the more sewage sludge is generated that needs to be treated and disposed of. The requirements sewage sludge treatment systems have to meet depend on the specific ways and methods of sludge disposal applied, which differ from country to country and even from region to region.

Our aim is to provide our clients with complete solutions from a single source and to offer a programme which covers all steps of mechanical and thermal sludge treatment.

- ▶ Screening
- ▶ Thickening
- ▶ Dewatering

- ▶ Transport
- ▶ Drying

In addition to all these treatment steps we are also able to offer different machine types, with an aim to find the greatest possible value and optimum solution for our clients.

With our solar drying and belt drying systems we are able to provide the optimal application-specific solution for the required throughput – sustainable sewage sludge disposal concepts.





Advanced Wastewater Treatment

Best Water Quality with Innovative Solutions

Flotation, Micro Screening, Filtration – Novel Technologies for Superior Efficiency

The requirements for wastewater treatment in municipal and industrial sewage plants are becoming increasingly demanding and complex.

We are experts with the expertise in

- ▶ Flotation
- ▶ Micro screening
- ▶ Cloth filtration
- ▶ Sand filtration
- ▶ Activated carbon filtration.

Depending on requirements and boundary conditions, individually adapted process combinations can be created for the advanced treatment of wastewater, process water and drinking water.

Examples of application:

- ▶ Retention of filterable solids on wastewater treatment plants
- ▶ Phosphorus elimination through flocculation filtration
- ▶ Removal of endocrine substances
- ▶ Preliminary clarifier replacement for carbon removal
- ▶ Treatment of road run-off
- ▶ Removal of microplastics
- ▶ Treatment of process water, cooling water and circulation water
- ▶ Treatment of surface waters and removal of algae
- ▶ Treatment of industrial wastewater for indirect discharge





Increased Energy Efficiency

Recovery of Thermal Energy from Municipal and Industrial Wastewater

Our Business is to Minimize the Energy Demand for Wastewater and Sludge Treatment and Use Wastewater as an Energy Source.

Water and energy are inseparably connected. When we want to clarify wastewater or sewage sludge we need energy. The generation of this energy usually sets free CO₂ emissions and contributes to the much-discussed climate change. It is therefore our endeavour to develop energy-efficient HUBER solutions in order to minimize the energy demand for wastewater treatment.

But wastewater contains also energy: chemical energy that can be converted into biogas in digestors, or potential energy that can be utilized via water wheels. The richest energy resource, however, is the thermal energy contained, which can profitably be recovered by means of heat exchangers and heat pumps.

For this purpose, we offer the HUBER ThermWin system for the recovery of wastewater heat by means of heat exchangers especially developed for the medium wastewater.

ThermWin makes wastewater a regenerative energy source, reduces CO₂ emissions and minimizes the consumption of fossil fuels.

i Heating and cooling with wastewater: HUBER solutions contribute to increasing energy efficiency.

Wastewater as a valuable resource.





Brilliant Solutions: Stainless Steel Parts

Reliable, Durable and Proven: Safety for Water and People

Quality as Philosophy: A Variety of Products for the Most Challenging Technical Requirements Made of the Highly Wear-Resistant Material Stainless Steel

Our comprehensive range of products manufactured from stainless steel mirrors the high quality standard we apply to our complete range of equipment.

We are very proud of being the first to introduce stainless steel as the basic material for water and wastewater as this is the only material able to ensure a substantially higher quality of sustainability.

Expert manufacturing processes, which notably includes that all products under-

go acid treatment in a pickling bath, ensures that the outstanding qualities of stainless steel, such as corrosion resistance and maintenance-free operation during the entire product life, are maintained.

Our company roots lie in the field of potable water. It has since developed into the comprehensive business it is today. We have been committed to the quality of our drinking water for decades.

We use our know-how of stainless steel processing to manufacture superior quality products that are applied to protect our drinking water nationally and internationally.





Versatility and Know-How for our Industrial Clients

Perfect Products for Intelligent Processes for the Benefit of our Industrial Clients

System Solutions: from Expert to Expert

The diversity of our product line combined with the expertise of our qualified engineers provides the opportunity from single products to complete whole solutions for the processing requirements of our industrial clients from a single source with an option to tailor them to suit the specific requirements of different fields of industry.

Our customers can depend on our reliability, well proven experience and the quality in engineering and design our qualified staff provide from planning until project completion. In our own laboratory, we analyse the wastewater and sludge of our customers. We also carry out on-site pilot tests to clarify open questions and ensure that we offer our customer the optimal solution for his application.

The high quality of our products is demonstrated by the implementation of targeted solutions and the reliable functionality of the entire installation.

We are able to combine perfect products into intelligent solutions and tailor them to suit the customers' needs and problems.

Our backup service is at your disposal to ensure trouble-free operation and installation of the application.





Discover New Dimensions: Our Production

HUBER Production: A Symbiosis of High-Tech and Experience that Redefines 'Highest Quality'

To be able to offer our customers top quality, production is a focus of our activities and is backed by our highly skilled experts who put their expertise to work and take pride in the superior quality of our products. Modern production machinery and plants are at their disposal and, as a consequence, bring about accurate, repeatable and faultless production results. It is the combination of our expertly trained staff in conjunction with the latest computer-aided high-tech production machinery that enables us to offer high-quality products throughout the world.

Our production is backed by an experienced team of design specialists. In close interdisciplinary collaboration with our sales, engineering, production and service departments, these design engineers lay the foundations for successfully launching new innovative products that are highly regarded among experts.

Among the guidelines of our engineering activities is the "Integrated Product Policy" which means that the optimum use of materials, efficient operation of products, economic use of resources,

compliance with environmental requirements with regard to functionality and the results achieved is taken into account right from the outset. The use of stainless steel for all our products therefore contributes to completely recovering resources and to closing the recycling loops. We are living ecological awareness. We don't just talk about it, we act accordingly in everything we do. Quality needs quality control. The entire area of our design and construction services as well as production is subject to sustained quality control, evidence of which is shown by the relevant certificates that give proof of our excellence.

Quality combined with innovation achieves exceptional results. The economic efficiency, safety and reliability of our products are the basis for investment security and high customer satisfaction.

This approach has made us a world-wide renowned manufacturer of quality products and we are committed to this philosophy for the future.



Service – Around the Clock – Around the World

Global Presence for the Support of our Customers – Wherever they are in the World

Global Service Provides Security

We know that customer loyalty is not only built on superior product quality but also on our motivation to offer life-long solution and product assistance for the benefit of our customers.

Our HUBER Global Service is at the disposal of our customers around the clock and around the world. This helps us to maintain the high quality level of both our products and performance that our customers expect.

Digital service solutions as well as customised maintenance contracts enable us to provide the optimal level of support for our customers in the operation and maintenance of our products.

We are not just content with manufacturing and supplying products alone but also feel responsible for operation, functionality and optimum performance of our machines – during their whole product life cycle.





Customer Satisfaction is our Motivation and Obligation

HUBER Engineers are There to Give Optimum Assistance to Our Clients Worldwide

Our Clients are Our Partners – Worldwide

We provide solutions for a better environment which are built on the quality of our products, solutions and services, seeking to deliver the results our clients are counting on.

Our orientation towards customer value provides the basis for confidence and the quality of collaboration that we focus on.

Water is a global issue. We are ready to meet its challenges and that is why we as a company have made this the main focus of all our efforts and are active throughout the world.

We operate with more than 25 subsidiaries and numerous local partner companies worldwide. The experience and suggestions that we gather from all over the world have been integrated into the solutions we offer and adapt to suit our customers' specific requirements.





Headquartered in Berching and Active Throughout the World

Administration Headquarters and Production Works
at HUBER SE, Berching

**Our visions are built on sustained
development. To create and main-
tain success for our customers is**

**our goal and provides the foundation
of our future.**

Management Board of HUBER SE

Dr.-Ing. Oliver Rong, Vice CEO Dr.-Ing. Johann Grienberger Georg Huber, CEO Rainer Köhler





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