

HOBAS® Our Responsibility

The Road to the Future.

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Words from the Management

Why Responsibility is Important to Us

Who does not care of tomorrow today is in a way guilty of negligence – this is not only true for individuals but also for companies. At HOBAS it means that we create the basis now for continuing to operate successfully in the market and safeguarding jobs in the future. Setting the course today ensures that we will also have highly qualified and motivated employees tomorrow. We therefore develop products that conserve natural resources and use energy sensibly. In addition, we see ourselves as corporate citizens and neighbors who have a role to play in society – however big or small the issue.

Our global projects have an impact on people and the environment. We are aware of this great responsibility and regard sustainable business management as our overriding objective. It is important to secure our long-term success by constantly focusing on our customers' needs. Only if our customers and employees are satisfied and the company is on a sound footing can we really make things happen.

We do not intend to blind you with figures in this brochure but give you some practical examples of how we at HOBAS assume responsibility. The following pages will show you the steps of our journey; not our final destination. We hope you will join us on the road to the future, send us honest feedback and perhaps also be inspired to give more thought to the responsibility that we all bear.

5. Stalps



Doris Strohmaier, Managing Director



Dominique Meyer, Managing Director



"One of the first HOBAS Applications was a pressure pipeline for a hydropower plant back in 1961. It is still in operation today and trouble free."

Peter Schetty, member of one of the founder families and now on the HOBAS Group's supervisory board

- **1957** First production of centrifugally cast GRP Pipes in Switzerland
- **1961** First HOBAS Pipes installed in Switzerland
- **1977** First HOBAS Pipe production in Wietersdorf, Austria
- **1984** Joint venture of HOBAS and the Wietersdorfer Group
- 1987 Plant opened in the USA
- 1993 Plant opened in Germany
- 1995 Plant opened in the Czech Republic
- 1998 Plant opened in Romania
- 2003 Plant opened in Poland
- 2003 First production of non-circular GRP Pipes in Germany
- 2007 50th anniversary of HOBAS
- 2009 Diameter range extended to up to 3.5 m
- 2010 Extension of our industrial activities

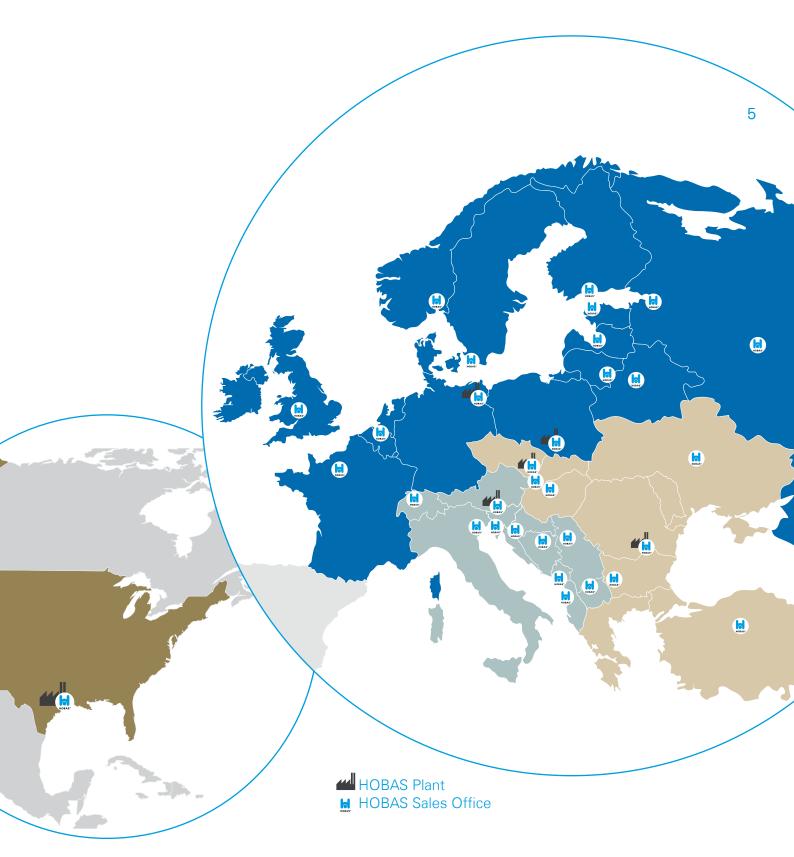
Company Profile

Innovations that occur by Chance are often the Best...

It all began quite modestly in Switzerland at a Basle **dye works** in **1957**. The fabric was wound round wooden cylinders during the dyeing process, but splintering and discoloring put the expensive textiles at risk. Engineers sought an alternative and found one in a roller made of glass fiber and polyester resin. The newly developed centrifugal casting process for **glass fiber reinforced plastics (GRP)** enabled them to achieve the precision outside diameter and smooth surface required for dye works.

GRP use had previously been restricted to shipbuilding, automobile and aircraft manufacturing. However, its resistance to both corrosion and chemicals also made the material highly suitable for other applications. The Swiss, renowned for their vision and pioneering spirit, saw its **benefits** and were soon using the **centrifugally cast pipes** for conveying water - the pipes laid at that time present no problems and are still in use to this day. Step by step, the pipes were improved, the manufacturing process automated, the product range extended and tailor-made fittings added in the subsequent years. A new company was born: **HOBAS**.





Today HOBAS is owned by the Wietersdorfer Group, a **long-established family business** with roots in the 19th century. As a leading international manufacturer of GRP Pipe Systems, we look back on our fascinating corporate history with great pride and look forward to the future. The wealth of experience we have gained over the years and the partnerships we promote between our **subsidiaries around the world** are reflected in **innovative customer solutions** and effective project support. Focusing on our customers and achieving the greatest possible benefit for them are very important to us. We firmly believe that treating employees, customers and also other market players fairly is the only way to remain successful in the market in the long term. Our values – decency, enthusiasm, responsibility, openness and development – are not mere lip service for us; upholding values and achieving results do not contradict each other at HOBAS. They are what form the basis for taking our responsibilities seriously.

Mission

Customer Focus and Success Orientation

We focus on customer satisfaction when making decisions. To constantly increase the benefits to our customers, we work professionally and target-oriented.

In order to safeguard the long-term continuance of the company it is essentail to make profits. This makes us a reliable business partner for our clients and ensures continuous advancement.

Success, in all its facets, enriches and motivates - each individual, the whole team and all people around us.

Values

Decency

Respect and fairness for each other and in our cooperation with customers and business partners are of great concern to us. We respect nature and treat all resources with care. A balance between work and private life is important to us.

Enthusiasm

We live enthusiastically and pass this on to others. With a positive attitude and by taking pleasure in our work, we face the constantly changing demands.

Self-Responsibility

Based on mutual trust, we encourage and demand personal initiative, courage and a sense of responsibility.

Openness

We are straightforward in our communication and inform in a clear and transparent way. We appreciate and respect different opinions and set value on mutual exchange.

Development

We take the various opportunities offered in our work environment and constantly improve through personal development. This is how we ensure progress and innovation.







Even if water does not have a market value and is not traded on the stock exchange, it is probably the most valuable commodity on earth. As a **system supplier**, HOBAS provides customers with smart solutions in the following areas:

We make sure that **drinking water** gets to you safely and soundly. In addition, you can enjoy clean water from our potable water tanks in all shapes and sizes. In the area of **irrigation** our pipes are used to loss-freely supply nature with water, while our sewer pipes collect and convey **wastewater** safely to the treatment plant. Thanks to the extremely smooth internal surface, the corrosion-resistant pipes ensure a water flow even at slight gradients. There is no need for expensive pumps and the resultant energy savings benefit both you and the environment.

Custom built HOBAS **Manholes** provide easy access to sewers, enabling those responsible to inspect the perfect state of HOBAS Pipes even after years of operation, and our ultramodern **non-circular profiles rehabilitate old sewers** in danger of collapsing.

HOBAS Products are often installed using trenchless construction methods, including **relining** and **jacking**. This means that new pipelines can be built underneath cities without any disruptions. Being absolutely leak tight, our products ensure you reliable, maintenance-free service for the next decades.

We help to provide **drainage on highways and bridges** to accordingly discharge chemical substances, tire abrasion, fuel loss, etc. and generate clean energy by supplying HOBAS Pipes for **hydropower plants** and various **industrial applications**. Safety for people and the environment is our top priority.

It is comforting to live in a world where clean water comes out of the faucet and wastewater simply disappears down the drain, isn't it? Enjoy the feeling; we'll look after the rest.

HOBAS. Make things happen.







"Tests on old pipes have produced much better results than predicted. While the turbine at the Wald power station in Austria has had to be repaired several times, our pipes are still as good as new."

Thomas Simoner, Head of Quality Management, Raw Material and Product Development in the HOBAS Group

Innovation and Quality

Striving for More...

A long company history, years of experience and satisfied customers are one thing, but staying successful in business, producing innovative state-of-the-art solutions and continuing to inspire customers is quite another. We cannot afford to stand still and do not intend to; on the contrary, we aim to set new standards in the market. Aware of the responsibility we assume when supplying our products, we certainly do not make any promises that we cannot keep.

Customers have been telling us for many years that they always come back for HOBAS Products when the need arises. That fills us with pride, as we see **customer satisfaction** as the key to long-term success. However, only **stringent quality criteria** and **honest communication** will secure this in the future.



Innovation and continuous striving for improvement determine our actions. Whether selecting raw materials, developing technologies or searching for new products with even better properties – our decisions are always based on achieving consistent high quality both in product design and production.

Certified to various **international standards**, the HOBAS Plants ensure that the finished products meet the highest customer specifications. As an international group, we cooperate across national borders and benefit from the expertise shared by a large pool of HOBAS Experts with wide-ranging experience and specializations. The synergy effects created are reflected in impressive projects and **creative solutions** that win innovation awards time and again. Learn more about our projects in the quotes and the section starting on page 18.

HOBAS TechCenter: Research and Technology Center at the Highest Level

Being able to promise a product life cycle of more than 50 years 111 is the result of our research and development team's dedicated work. At the central HOBAS TechCenter, which covers an area of over 1,000 m², the experts continuously monitor the **long-term** performance of the products from all the HOBAS Plants, aixid examine product improvements and develop new product lines. The laboratory is certified to international standards (including ISO 17025 and TÜV Süd) and is also authorized to perform product tests on behalf of TÜV for all other HOBAS Plants to verify compliance with the standard. To provide customers with the best possible solutions, we focus on improving pipe designs, raw materials and processes. We do not shy away from the challenges posed by our business partners and the constantly changing environmental factors. Indeed, we see them as opportunities and the need to grow.

Quality Assurance: Uniform Quality in every Plant

In addition to the TechCenter, a **local laboratory** is involved in the quality assurance process at every plant. The **same high standards** apply **at all** our **subsidiaries**. It goes without saying that our pipes not only undergo stringent **product inspection** certified to international criteria, but also stiffness, ring deflection, burst and longitudinal tensile strength testing. What is extremely important to us is that our customers can rely on consistently high quality, irrespective of what country delivers the product. Before leaving the factory, every finished product goes through precisely defined quality control to guarantee that our customers only receive impeccable goods. With no **ifs or buts!**

CSTB

CSTB

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CERTIFICATE

Environmental Awareness

A Product Life Cycle that Fills us with Pride!

We see the continuous **improvement** of environmental protection measures as part of our corporate social responsibility. Based on **ISO 14001**, an **international** environmental management **standard** for continually improving an organization's **environmental performance**, the HOBAS Group aims to improve its eco-balance year by year. Cost- and energy-efficient management of raw materials and production processes is a matter of course for us, as is minimizing resource use and any impact on the environment.

Our strong **commitment to conservation** can be seen throughout the entire product life cycle. In the production process, pipe transport, installation, operation, and above all in our daily lives, we at HOBAS ensure that we not only do the bare minimum required but also take every opportunity we can to conserve the natural environment.



"The many advantages of HOBAS Products over concrete mean that we can deliver a complete costeffective package. This impressed the city of Vienna for the Liesing interceptor project: low weight and therefore no additional mobile cranes, shorter construction time, smaller outside diameters and therefore less excavated material, narrower trenches, longer standard pipes, less storage space...

Othmar Vogler, Sales Manager, HOBAS Austria and Switzerland

1 | Pipe Design and Raw Material Selection

As described above, HOBAS Products are manufactured for an array of applications and installation methods. The pipe system required is specially **designed to meet** the **customer's specifications** and a certified environmental management system ensures that nature is protected. We select our raw materials carefully and subject them to a stringent quality control process. HOBAS Products basically consist of **glass fiber**, **polyester resin**, **sand**, **mineral reinforcing agents and additives**. Wherever possible, we use recycled raw materials. Close cooperation with a raw material supplier, for example, has enabled us to develop a resin from recycled PET, such as from bottles. It is suitable for long-term and/or tough conditions just as traditional raw materials and at the same time positively influences the carbon balance.

2 | Production Process

The main focus in **production** lies on minimizing resource use and waste. We therefore program the manufacturing equipment electronically to control exactly how much material is supplied in the various production stages and see to it that the majority of energy used during the production process is recycled. We, however, strive for more! Continuous improvements in the process are aimed at making the production facilities even more eco-friendly and giving employees an ultramodern working environment.

3 | Pipe Transport and Installation

HOBAS Pipes come in a standard length of six meters and compared to other materials have a much lower outside diameter for the same inside diameter. In addition, our pipes weigh comparatively little and smaller pipes can be inserted inside larger ones for transport. **Lower freight costs** and carbon emissions are the result.

Given the favorable ratio of inside to outside diameter, our pipes can be installed in narrow trenches using **less bedding and backfilling material**. As a result, there is no need to move as much soil and nature is only slightly disturbed. Not to be underestimated are also the financial savings: **less storage space, lighter equipment on the construction site, easier handling and faster installation** with the pre-mounted couplings save money.

Our products can also be installed using **trenchless** construction methods, such as **jacking** where pipes are driven horizontally into the soil from a shaft. Compared with other materials, our pipes have a smoother outer surface and lower weight requiring lower jacking forces, which in turn leads to less energy being used and consequently lower costs.

4 | Use

HOBAS Pipes are designed for a **service life of 50 years plus**. Corrosion and abrasion resistance prevent incrustations reducing the maintenance costs to a minimum. The extremely smooth inner surface contributes to the very low roughness coefficients and excellent flow properties. Both result in less energy having to be used to pump water through the pipe system or pumps not being required at all, even if the gradients are relatively low.

HOBAS CC-GRP Pipe Systems blend in with the environment and reliably protect it.

5 | Recycling

Saving resources is very important to us, but unfortunately we too have not yet reached the stage where we do not generate any waste at all. In this area, we therefore primarily focus on **recycling waste** from pipe manufacture. Options are to use the shredded material for heating blast furnaces at cement plants or as reinforcement in shaft production. In addition, we are working on using GRP in the sintering process in the steel industry.

As you can see, we attach great importance to ensuring that not only our pipes but also their life cycles have as little impact on the environment as possible. Also the coming generations should have the right to enjoy a clean environment and clear potable water.



"Our employees pulled out all the stops for the major Czajka project and developed a manufacturing technology where pipes with a diameter of 3 m are centrifugally cast at 75 km/h. It is all the more impressive when you consider that the centrifugal mold and the heaviest pipe it holds have a rotating mass of 45 tons.

Małgorzata Blukacz, Head of Customer Service and Application Engineering, HOBAS Poland

Teamwork

What would ideas be without the opportunity to present them? What would achievements be without recognition? What would talent be without encouragement?

Day-to-day business life is often dominated by the hectic pace and pressure to perform with competition becoming stiffer in all areas. It is therefore all the more important for our employees to take **personal responsibility** every day and improve the benefits for our customers with innovative solutions.

Human Resources

Where ideas can develop freely and managers create space for unconventional ways of thinking, that is where innovations are produced. Where potential is recognized, appreciated and nurtured, that is where the basis is created for the outstanding achievements that our customers demand. To meet these high standards, HOBAS attaches great importance to the development of employees. We identify and nurture individual strengths in people - with the aim of motivating them and giving them opportunities for personal development by employing their skills and knowledge in the organization. Our employees know that with commitment and dedication they have excellent career prospects in an international company - after all, 90 percent of our managerial staff come from our own ranks.

Trust

We set great value on **clear communication**. In fact, we see treating each other with honesty and respect as well as committing to our **values** as the basis for teamwork.

In order to strengthen the trust in the company, regular meetings are held where employees learn more from the management about the current situation in various areas of the organization, strategic matters and plans for the future. During employee reviews, superiors discuss their performance with them and together they chart the course for their 'personal' future in the company. Our goal is to encourage everyone to see the big picture, give all HOBAS Employees the best possible basis for their day-to-day work and thus continuously increase the benefits for customers with our products and services.

Safe working conditions in production, state-of-the-art equipment and clearly structured processes are a matter of course for us. We work together with employees to constantly improve their work environment, as only healthy employees will be motivated to perform at a high level.

No Rest for the Best

Our environment is changing rapidly – we constantly have to analyze customers' current demands and anticipate their future ones to remain competitive. The **HOBAS Academy** is an in-house training and development center offering custom courses and workshops where internal and external experts broaden employees' perspectives and deepen their specialist knowledge. Whether technical subjects, soft skills or languages, every employee is welcome to take part in the courses.

Keeping Active

If you work hard, you need a change in your leisure time. It is important to us for employees to achieve a **work-life balance** and we therefore support them in their endeavors to keep fit. Above all in athletics our people show off their prowess with stamina and team spirit. When colleagues are on the spot as fans, there is more incentive to run, cycle or canoe faster.

Role models include Nico Delle Karth and Niko Resch, the vice world champions in sailing in the 49er class sponsored by HOBAS. Professionalism, team spirit, mental strength and dynamism are attributes that the two yachtsmen share with HOBAS Employees. Water and GRP, which the boat is made of, are also our elements. Furthermore, we have been a supporter of the Neubrandenburg sports club in Germany for a long time with the result that many world champions and Olympic gold medalists have stepped onto the podium sporting the HOBAS Logo.

Sport unites, strengthening team spirit and tolerance. HOBAS therefore helps charities that arrange sports and activities for children and we also organize sports events ourselves. For years, for example, we have been part of Mirno More, the peace fleet where children from various ethnic and social backgrounds spend a week every summer sailing together off the Croatian coast.







HOBAS CC-GRP Pipe Systems



HOBAS a little Different...

We are **not only** active when it comes to **sports**, but also in other fields. For the city Leipzig in Germany an entire playground out of HOBAS Pipes was built, where children (and many an adult) can have fun and let off steam. Also in Germany, horses jumped over HOBAS Pipes at a horse show in Gross Nemerow and at Schönbrunn Zoo in Vienna, Austria, the marmots are exploring their exciting new enclosure made of HOBAS Pipes...

Whether cooperating with schools, universities or non-profit organizations, HOBAS is engaged in many different causes. They range from our annual Christmas appeal to projects in Uganda where we support adult education with aid for self help.

These are just a few examples intended to give you an impression of how we go forward with our eyes open, are aware of our responsibility towards other people beyond the realms of the company and also take that responsibility seriously.





"What is the point of excellent products if they can't be put to practical use around the world?"

Kimberly Paggioli, Head of Marketing and Quality Management at HOBAS Pipe USA

NIN NO

Projects

HOBAS Pipes - around the World...

HOBAS Products are used in projects all over the planet. Uncompromisingly **high material and installation standards** ensure that people and the environment are protected.

If you do not notice the reliable potable water supply or wastewater disposal and HOBAS Products in other applications, we have achieved our goal.

Sewer through a Nature Reserve in Hexbach, Germany

DRLD

Strict environmental protection regulations had to be met when renewing the sewer in the Hexbach valley nature reserve – the kind of challenge we love!

Here too, the advantages of the light, thinwalled HOBAS Products bore fruit: use of small machinery, 30 percent less excavated material and lower costs of pipe transport saved a lot of money.

All the construction work was carried out in consultation with ecologists. The thrust and receiving pits for pipe jacking were dug in tree-free zones and protective sheeting was laid under the area of the construction site to prevent the soil from being mixed. "All above ground work was carried out outside the birds' breeding and nesting seasons" states Hans-Georg Gottschol. The low-maintenance HOBAS Products ensure that wastewater will be conveyed without any trouble for the next decades.

Clean Potable Water High up in the Alps, Austria

Pürgg is an idyllic village on the main ridge of the Totes Gebirge holding many attractions for tourists and climbers. HOBAS Potable Water Tanks ensure that the population of around a thousand has an ample water supply, even in less easily accessible areas.

The narrow road through the steep, densely wooded terrain, passable for farming vehicles up to a total load of only 30 tons, and numerous quality and hygiene regulations laid down by Austrian national legislation were too much for other materials.

HOBAS ShaftLine[®] Potable Water Tanks feature short production times and even faster installation work. When delivered in the morning, you can enjoy fresh potable water by lunchtime.



3 m Pipes for Czajka, Poland

A ceiling height of three meters may be slightly more than in the average home, however a pipe diameter of three meters is anything but average – yet has become quite normal for HOBAS...

These giant pipes were installed by jacking under the city of Warsaw without the local population noticing. Now, untreated sewage no longer flows into the River Vistula but goes to the treatment plant for careful processing.

Thanks to the smooth outer surface of HOBAS Pipes, comparatively low jacking forces were required during installation – the contractors (and ultimately also the taxpayers) were delighted about the lower costs. As HOBAS Pipes also have an extremely smooth inner surface, only a slight gradient is required to guarantee continuous flow and there is no need for expensive water pumps. The population and the environment can therefore save a great deal of energy! 20

Green Electricity for Brescia, Italy

HOBAS HydropowerLine[®] ensures that clean electricity comes out of your socket.

The HOBAS Pressure Pipeline for a hydropower plant in Brescia not only withstands the strain from the heavy traffic on the highway above without any trouble, but also helps to prevent emissions in energy generation. Compared with a coal-fired thermal power station, a hydropower plant can save thousands of tons of SO₂, CO₂, NO_x, particulate and methane.



As Good as New in Tilburg, Netherlands

The more unusual the sewer shape to be rehabilitated, the happier our HOBAS NC Line® Experts.

In Tilburg, our customized non-circular pipes were inserted into an old pipeline, thus relining the corroded sewer. The inner surface of HOBAS Pipes is so smooth that it guarantees the same hydraulic capacity as the original pipe, even if the diameter is slightly smaller. The Dutch were so delighted with our products that they presented us with the Dutch No Dig Award (prize for trenchless installation) for the project.

Protection for Hawaii's most Beautiful Beaches, USA

Only a few products can contend with the extremely aggressive soil conditions on the scenic islands – no problem for HOBAS Pipes!

In recent years, HOBAS SewerLine® Pipes have ensured that the severely damaged sewer network near the beaches and harbor has been replaced without affecting tourism. Step by step, the corrosionresistant HOBAS Products have protected the most beautiful beaches in the world from the threat of being flooded – despite the aggressive sea water.



Clean Potable Water for Ruse, Bulgaria

Over 20 km of HOBAS WaterLine[®] Pipes supply the most valuable commodity on earth safely to the people of Ruse.

HOBAS Products also comply with the particularly strict regulations for potable water pipes. Our experts were involved and provided advice at every stage of the project – this was valuable support for the contractors and very reassuring for the city's population that can now rely on the state-of-the-art potable water supply.



Drainage for the Islisberg Tunnel, Switzerland

What happens to the water in a highway tunnel? HOBAS TunnelLine[®] Pipes drain it off safely.

Regulations naturally have to be very strict and lost fuel in particular has to be treated with proper care. This is where certified HOBAS TunnelLine® Pipes are utilized. These flame retardant products largely consist of hardly inflammable material. A special resin layer on the pipes' inner surface makes sure incrustations do not form; any loss of hydraulic properties can therefore be ruled out. We wish you a safe journey!

Cleaning up the Baltic Sea in Kaliningrad, Russia

The unfiltered effluent from 500,000 inhabitants was polluting the Baltic Sea – a new treatment plant and a sewer system rehabilitated with HOBAS Pipes put an end to it.

Over 2 km of HOBAS SewerLine® Pipes replace and stabilize the old concrete sewer. Despite the worst possible construction conditions – close proximity to the River Pregel, very high groundwater table and subsoil consisting of sand and mud – the relining work with HOBAS Products progressed rapidly. A vacation on the clean Baltic Sea can be highly recommended!



Enjoy the View from the Dubrovnik Bridge in Croatia

Matching the bridge color, HOBAS BridgeLine[®] Pipes drain the highway so that you can enjoy the view without worrying about surface water.

HOBAS Pipes stand up to the elements as well as UV radiation and only show slight expansion due to temperature. Luckily, HOBAS Couplings can compensate for the expansion in the bridge. They are therefore ideal for keeping the road clear on bridges and blend in well with their environment thanks to the outer surface that can be painted any color.



Eco-Friendly in South Australia

Melbourne has a high groundwater table, difficult soil conditions and HOBAS Pipes that easily take it all in their stride.

Installed below a residential housing area, HOBAS Pipes have now extended the sewer system for the northern quarter of the Australian city. The client was particularly pleased about the easy handling with a small forklift and rapid installation due to the pre-mounted couplings. Thanks to nesting the pipes for transport, also the environment gave HOBAS the green thumbs up.

HOBAS Lands Contract at Prague Airport, Czech Republic

Aircrafts think nothing of landing on HOBAS Pipes. Not only Prague, but also many other hotspots have come to rely on our products.

Only a few manufacturers are authorized to supply pipes for such sensitive areas as under the traffic zones at airports. At Ruzyně airport in the Czech capital, our high-stiffness jacking pipes were installed under the runways, thus ensuring that the storm water is reliably drained. And no need to worry, our jacking pipes are also more than a match for the new superjumbos.

You will find more details on this project and many others at www.hobas.com.



22

Outlook

No Resting on Laurels!

We have achieved a great deal and yet have only gone a short way down the road. Many small steps, genuine effort and engagement are more important to us than full-blown action that briefly makes a big impact only to sink into oblivion. Assuming responsibility to us means working on ourselves every day and striving to be better every day.

Our task is to continue developing innovative products and systems, and responding to our customers' needs even better by providing custommade solutions. We are proud of the fact that we help step by step to provide people with potable water – arguably the most valuable commodity on earth –, dispose of wastewater safely, generate clean energy and thus improve the quality of life around the world.

We look forward to the future and the ongoing journey. Resourcefulness, initiative and sense of responsibility of each individual HOBAS Employee have solved seemingly insurmountable problems in the past. The people who make HOBAS what it is have repeatedly shown vision, thus pushing boundaries and setting new standards – they will continue to do so in the future.

HOBAS. Make things happen.

Numbers do not talk, do not analyze and do not build up a company – people do.

Doris Strohmaier, Managing Director

"I have to do something" always solves more problems than "something has to be done".

Dominique Meyer, Managing Director



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HOBAS Group Worldwide

HOBAS manufactures and sells HOBAS CC-GRP Pipe Systems. The HOBAS Network consists of HOBAS Manufacturing Facilities and Sales Organizations worldwide.