

The logo for DUKTUS, featuring the word in a bold, blue, sans-serif font. The letter 'U' is stylized with a red vertical bar on its right side.

DUKTUS

A photograph showing a large stack of ductile iron pipes. The pipes are arranged in a grid pattern, with their circular ends facing the camera. Each pipe has a blue-painted outer rim and a dark grey interior. The pipes are supported by wooden pallets. A large, semi-transparent white circle is overlaid on the center of the image, containing the text.

Solutions made of ductile iron

The enterprise

Duktus

The Duktus Group develops, produces and markets high-grade systems for transporting water and for laying deep foundations for structures – both of which are made of ductile cast iron.

The companies from which the group originated were the Buderus Gussrohrtechnik company of Wetzlar in Germany and the Tiroler Röhren- und Metallwerke company of Hall in Austria. At Wetzlar the history of pipe casting dates back to 1901 and at Hall it began in 1947.



Making the link

The durable properties of the material, the innovative technologies used in the products and our professional expertise in the areas of application our customers have, make us the leading problem solver in the water industry and in deep foundation engineering.

At the two production sites in Hall and Wetzlar and in the subsidiary sales and distribution companies in Europe and the Middle East we employ more than 500 people. With a group turnover of some 200 million Euros, Duktus is one of largest European suppliers of ductile iron pipe systems.

Mission statement

OUR BUSINESS

We see ourselves as a leading European industrial group whose specialist areas are the water industry and foundation engineering. We develop, produce and market high-grade systems for transporting water. We make a major and sustained contribution to the construction and operation of high-quality infrastructure for water supply and for the disposal of wastewater and sewage. We are a significant supplier of economical deep-foundation systems of ductile cast iron. We operate world-wide. Our home market is Europe.

OUR PRODUCTS AND SERVICES

Our products are of outstanding quality and are notable for the particularly high performance they give in both technical and economic terms. The properties of our products and the quality of our services put us in a position to meet the demands even in extreme areas of application. In the areas where our products are used, we see ourselves as a flexible, versatile and innovative problem solver for our customers. There is a distinct and positive difference between the way in which we are viewed by our customers and the way in which our competitors are viewed. We are considered to be extremely competent, willing to make an effort, reliable and easy to get on with.

EMPLOYEES, MANAGEMENT AND COMMUNICATION

The most important foundation for our success as an enterprise is our employees. We look upon our employees as individuals. Above all, we encourage their initiative and willingness to accept responsibility, and their creativity and ability to be innovative, and we promote them for these qualities. We give them responsibility and constantly enable them to become increasingly qualified. We practice frank and open corporate communication which is marked by honesty and trust. The decision-making paths are short and this ensures that we can act flexibly and swiftly.

THE ENVIRONMENT AND OUR ROLE IN SOCIETY

Water is the world's most important nutritional resource. Because of our role in water supply and the disposal of wastewater and sewage we feel we have a particular obligation to protect the environment and to ensure that resources are used efficiently. The use of our products enables us to make an active contribution to environmental and economic sustainability in the water industry. We design our products, services and corporate processes to be in harmony with these principles. At the sites where our group operates, we are considered to be an attractive employer and a valued member of the local community.

PROFITS AND INVESTMENT

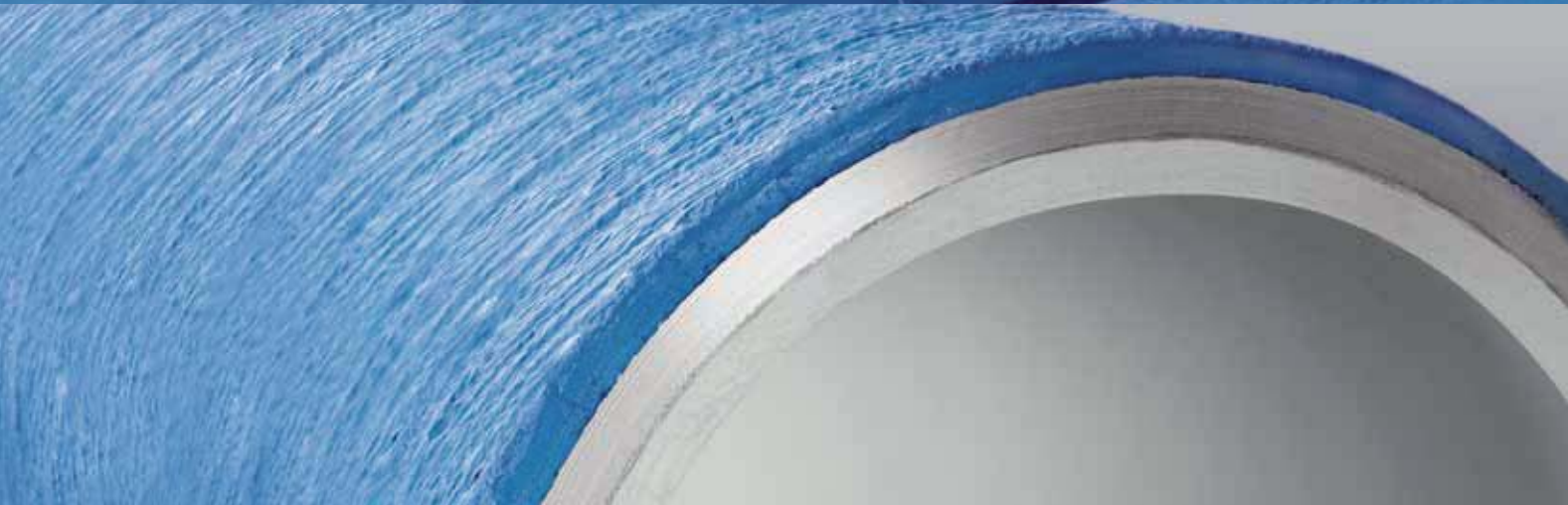
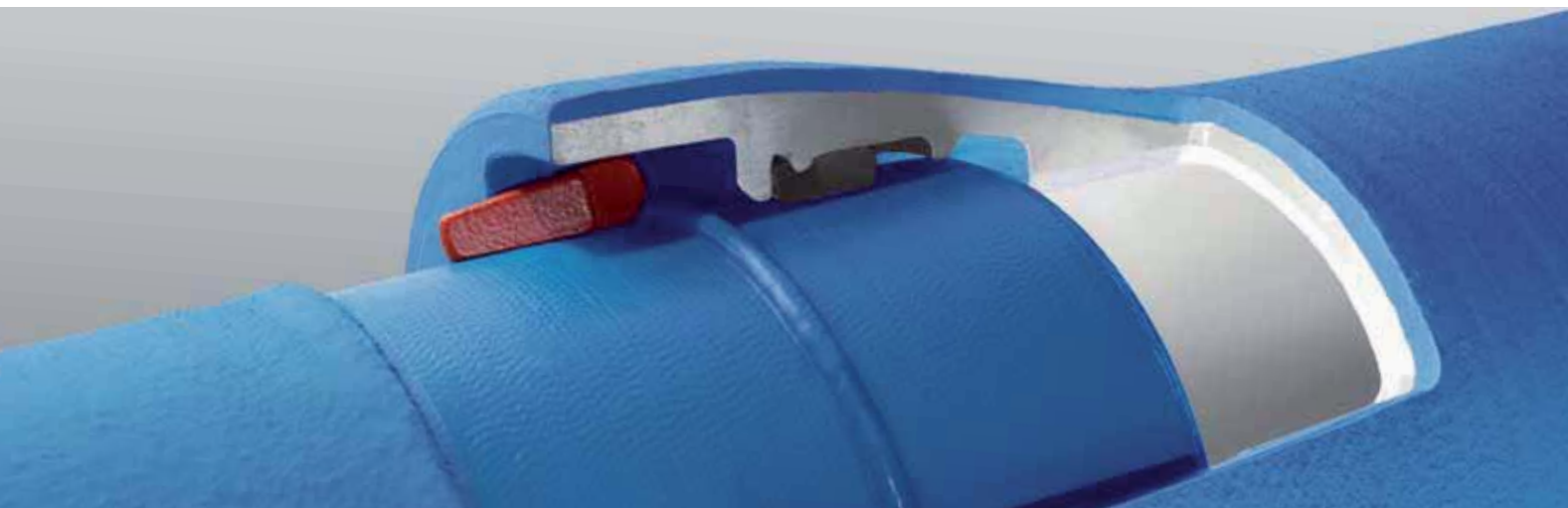
We are a profit-earning enterprise. Profits are the basis for investment. The capital investments we make help to develop and improve our products and services. Their purpose is to safeguard jobs. Profits increase the value of our group, its credit worthiness and its attractiveness to providers of capital and to owners. They safeguard our corporate independence and the continuing existence of our group.

Leading technologies from Duktus

BLS®/VRS®-T joints: the restrained joint technology

- Extreme strength for high internal pressures and external loads
- Operating pressures up to 100 bars
- Angular deflections of up to 5°
- A replacement for concrete thrust blocks
- Quick and easy to assemble
- Wide range of fittings, incl. gate valves, butterfly valves, hydrants, etc.
- Pipe systems for snow-making facilities
- Turbine pipelines
- Fire-extinguishing pipes
- Culvert pipelines
- Bridge pipelines
- Collector pipes
- For trenchless laying techniques
- Horizontal directional drilling (HDD)
- Ploughing-in with a rocket plough
- Press-pull technique/auxiliary tube technique
- Burst lining
- Pipe relining

A joint that holds



Coated in a rugged material

The ZMU cement mortar coating: the innovative coating technology

Resistance to chemicals

- Ductile cast iron pipes with a ZMU coating can be used in soils of any desired corrosiveness.

Mechanical protection

- ZMU pipes can be laid in soils with a maximum grain size of 100 mm.
- Pipes do not need any bedding.
- Suitable for trenchless laying.

Economic advantages

- No need for exchanges of soil or sand bedding.
- Soil excavated does not have to be taken away and kept on a dump.
- Lifespan of more than 100 years.

Application solutions from Duktus

DRINKING WATER SUPPLY AND WASTEWATER/SEWAGE DISPOSAL

- A guarantee of a reliable, economical and environmentally acceptable water supply.
- Water, the nutritional resource, transported healthily, hygienically and with no diffusion losses.
- Safe and reliable disposal of wastewater and sewage with good resistance to corrosion.
- Extremely long life..

- Safety
- Economy
- Sustainability

Reference clients:

Amongst others, the metropolises of Berlin, Oslo and Vienna have been using our equipment and know-how for decades now.

The ability to take high loads – less stress all round



The expertise needed for towns and cities

TRENCHLESS LAYING

In inner-city areas and when they have to run under rivers, it is now difficult to imagine how pipelines could be replaced other than by trenchless laying techniques.

Because of their high load-bearing capacity, ductile cast iron pipes with BLS®/VRS®-T joints and the ZMU cement mortar coating are particularly well suited to trenchless pipe laying.

- Less stress on people and the environment
- Laying is extremely economical
- Horizontal direction drilling (HDD)
- Ploughing-in with a rocket plough
- Press-pull technique/auxiliary tube technique
- Burst lining
- Pipe relining

SNOW

- Maximum safety and reliability for operating pressures up to 100 bars
- Fast and uncomplicated laying in difficult terrain
- Laying rates of up to 400 m a day
- BLS®/VRS®-T joints up DN 1000
- A sophisticated product range covering pipes and fittings
- Deflectable to 5° therefore fewer fittings required.
- Extremely long life
- Decades of experience
- Product quality monitored to EN standards; member of various quality assurance associations
- Consultancy at the planning stage and on-site support given by experts
- Technically and economically, the most efficient pipe system on the market

Snow you can be sure of



High pressure calls for strong pipelines

TURBINE PIPELINES

- Electricity from the power of water means clean energy!
- Most turbine pipelines are laid in extreme terrain. Conditions of this kind and the high operating pressures demand equipment with a performance to suit – ductile cast iron pipes!
- The outstanding strength properties of our ductile cast iron pipes and the security they give against tractive and thrust forces ensure that pipelines to hydroelectric power stations guarantee trouble-free operation for generations.
- Safe and reliable work can be done with our BLS®/VRS®-T joint because it can be deflected to large angles and can be laid without any problems even in bad weather
- Only a narrow trench has to be dug out so the surrounding area can soon be re-cultivated.

FIRE-EXTINGUISHING SYSTEMS

- Human and economic disasters may happen unless there are efficient and durable facilities in place for extinguishing fires.
- Pipelines of ductile cast iron to carry extinguishing water are incombustible, will withstand loads and, if an emergency does occur, will provide a reliable supply of extinguishing water.
- The large safety margins our ductile cast iron pipes give are the reason they are used for fire-extinguishing systems at airports and in industrial facilities and in road and railway tunnels.
- Ductile cast iron pipes with BLS®/VRS®-T joints give maximum load-bearing capacity combined with trouble-free laying.
- The FM approval certifies that our ductile cast iron pipes meet the requirements that reliable modern-day fire-extinguishing systems have to meet.

Equal to every demand



A stable foundation

PILES

- The ductile pile is an economical and technically acceptable alternative to conventional methods of laying deep foundations!
- Carrying working loads of up to 1400 kN, the ductile pile provides the right support for foundations of almost any kind!
- Being economical while giving high productivity on sites which are simple to set up, this system is not only suitable for large-scale projects but can also be used at low cost on small to medium-sized building projects.
- A simple and safe system of pre-formed driven piles suitable for a wide variety of uses. The driven cast iron pile is driven into the ground to a desired length and transmits forces from the structure situated above it into the ground.
- The load is transmitted either by end-bearing pressure in the case of ungrouted end-bearing piles or by skin friction in the case of pressure-grouted piles.



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