



Tunetanken

– Supplier of innovative products and systems

Danish produced quality since 1968



AGRO

Agro

Tunetanken offers much more than just silos and tanks!

The development and presentation of a large and broad-based product programme, keep our customers' needs for high quality covered, providing a large and various supply of products and solutions for fodder and grain storage and management, cultivation, livestock, stables, slurry and manure handling as well as for outdoor facilities and construction.

Agro6-11



INDUSTRI

Industry

Standard and custom-designed industrial solutions in fiber-reinforced composite material.

Tunetanken manufactures i.a. silos, horizontal and vertical tanks, industrial pipes, chimneys and modular tanks. Tunetanken also manufactures products that are suitable for contact with food.

Industry14-19

FCM approved 20-21



ENERGI

Energy

A wide range of efficient, multifunctional and reliable solutions for the energy sector.

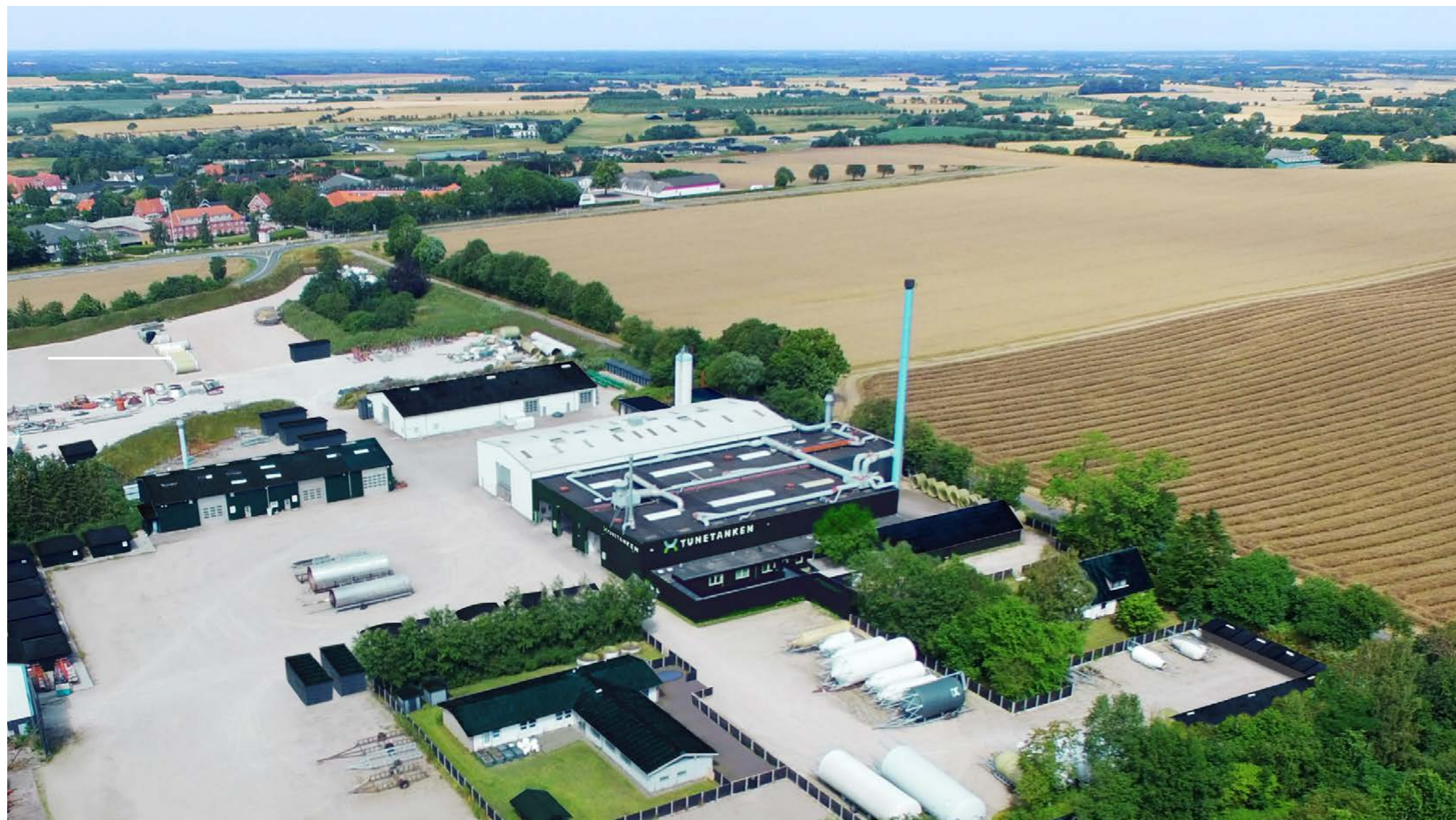
With more than 50 years of experience, we are able to deliver customised solutions i.a. scrubbers, chimneys, smoke and air ducts, wood pellet silos, tanks and basins.

Energy24-29



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Tunetanken today

Since the beginning of Tunetanken in 1968, customers have been the centre of our business. With a strong focus on quality and innovation, we create efficient and secure solutions for the everyday lives of our customers.

A strong player in the market

All solutions provided by Tunetanken are manufactured in robust, fiber-reinforced composite materials like fiberglass reinforced polyester or vinyl ester. Every product is designed and carefully thought-out, so that the initial properties of the combined materials work in synergy when producing new superior properties such as extreme strength, corrosive resistance and minimal maintenance.

Endless opportunities

As operation, production machinery and operational challenges differ within different corporations, the same product cannot always meet the same requirements. With our flexible material, we have the necessary design freedom to customise our solutions in order to meet specific customer requirements regarding functionality and design. Such design freedom along with our experience from many different industrial lines enable us to solve most special-orders, which have become a natural extension of our product range.

With our great expertise, durable fiber-reinforced composite materials and innovative solutions, Tunetanken is your guarantee for Danish produced quality, developed to optimise your operation conditions today and in the future.

“
The ambition is to develop quality solutions that create value in our customers' everyday lives.

Danish produced quality since 1968

With more than 50 years of experience working with unique benefits of fiber-reinforced composite materials, together with a broad-based standard product programme, we have developed our market position as the leading Danish manufacturer of tanks, industrial systems and silos produced in fiber-reinforced composite materials.

Our employees are experts in fiber-reinforced composite materials and their unique properties. However, it is through the collaboration with our customers that we create the most valuable solutions. Therefore, customer needs are integrated into the entire process, from idea generation to development, production, installation and service. This way, we make sure that our broad-based programme creates secure and efficient operation conditions for the everyday lives of our customers.

Development in focus

Tunetanken prioritises development because it is important to us that our solutions are not only useful today, but also in the future. We believe that by ensuring the future of our solutions, we equally secure our customers' investments. Therefore, quality and product development have always been – and still are – key factors in our process.

With our production located in Denmark, not only do we have the full overview of the development processes, but are also able to secure that all our solutions are manufactured in accordance with our high demands for quality and functionality.

Not only silos and tanks,
but also complete solutions
together with a broad-based
programme of products
and systems.



AGRO

Agro

Tunetanken delivers solutions for agriculture with the ambition of creating innovative, functional and durable products and systems with long life cycles.

A great and varied product programme for agriculture.

Based on nearly five decades of experience in manufacturing, Tunetanken always produces solutions following the highest demands for both quality and functionality.

With a broad-based product programme Tunetanken applies to grain farmers, pig farmers, dairy farmers, poultry farmers and farm builders offering products belonging to categories like grain and fodder storage and handling, stable, cultivation, slurry handling, construction, outdoor facilities, etc.

Our products are primarily produced in fiber-reinforced composite materials that excel because of their unique properties like corrosion resistance, chemical resistance, insulation, easy maintenance, long life cycle, hygiene, etc. These properties are of great importance, making sure that Tunetanken products and systems are of the highest quality while being optimal for application in rough production environments like farming.

Furthermore, Tunetanken focuses on recycling and environmentally friendly production.



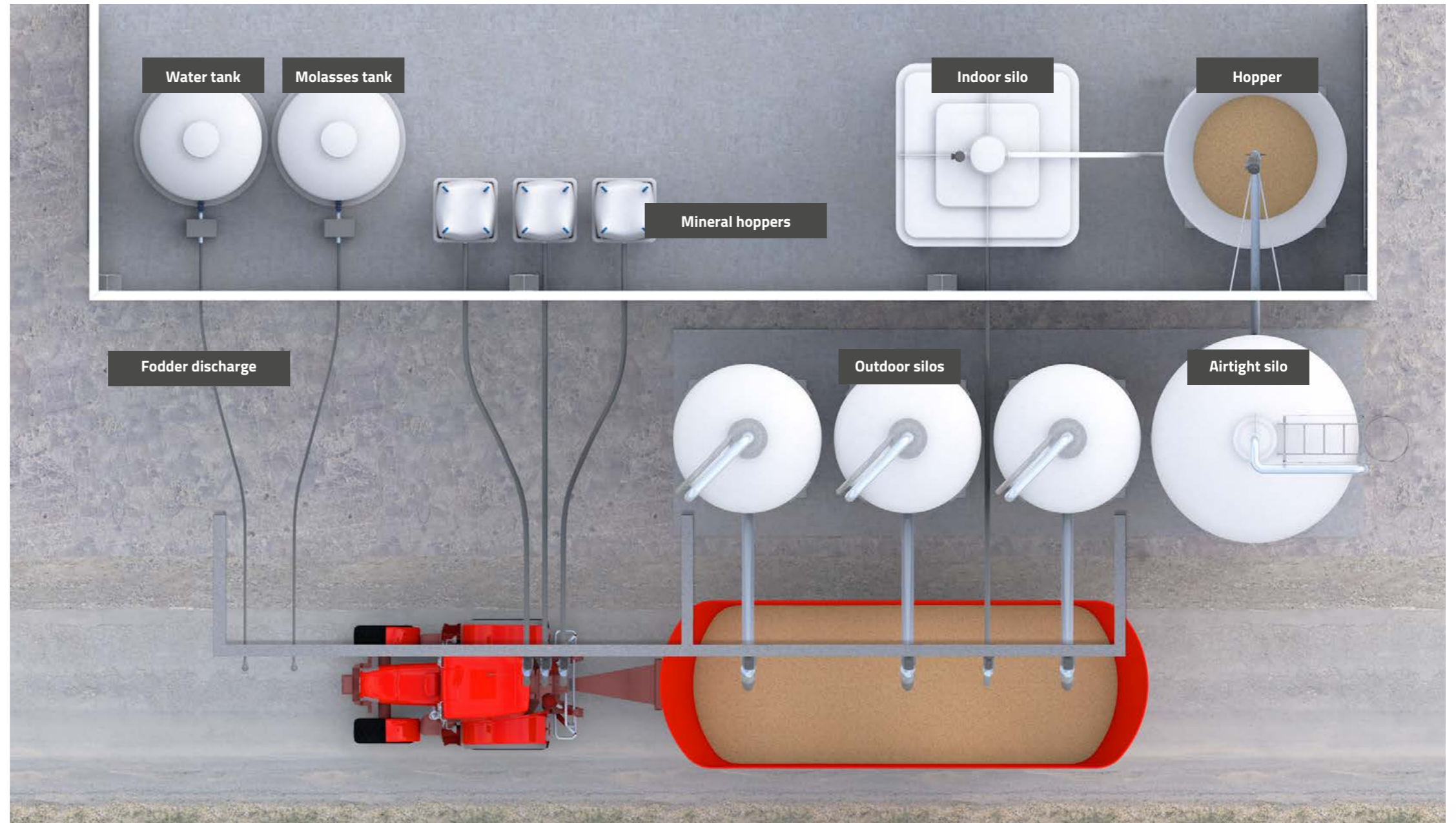
Outdoor silos

Main supplier of products for agricultural

Functional and durable products and systems

With a broad-based product programme, Tunetanken is your main supplier of products for agriculture that are partially or completely produced in fiber-reinforced composite materials.

Unique composite material properties secure stable and well-functioning solutions as well as storage and operation conditions. Robust material qualities ensure that products are durable and functional throughout the entire life cycle.



▪ Fodder

A wide selection of solutions for fodder storage, transportation and handling e.g outdoor silos, indoor silos, tanks, mineral hoppers, transportation systems, etc.

▪ Cultivation

Products for handling and transporting of i.a. liquid fertiliser, hay and straw drying, grain drying, tanks and silos for storage, etc.

▪ Stable

Odour control and air purification systems, carcass covers, calf hutches as well as stable equipment produced partially or completely in fiber-reinforced composite material.

▪ Grain

Products for grain storage and handling e.g., grain roller mills, airtight silos, grain pits, grain drying systems, modular silos as well as transportation equipment.

▪ Outdoor facilities

Irrigation systems, products for wastewater management as well as solutions for washing and tanking stations.

▪ Slurry

Products for slurry handling produced in corrosion resistant material, e.g. slurry systems, discharge pipes, covers for slurry tanks etc.

▪ Construction

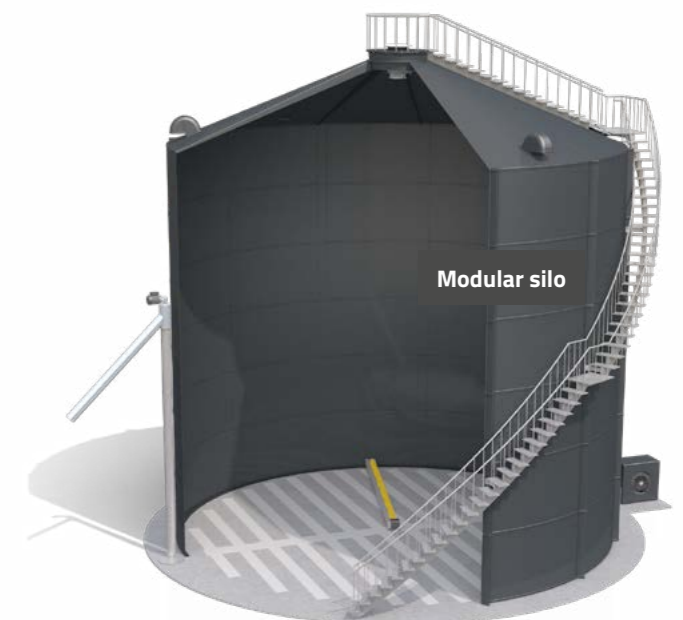
A wide selection of products and solutions for rainwater management, geothermal heating as well as construction for agriculture.

▪ Inventory and equipment for horses

Unique, durable and functional solutions for all types of stables, their interior and maintenance, e.g. feeding racks, horse shelters, fences, silos etc.

▪ Service

Tunetanken service department provides a wide range of services including mounting, condition assesment, reparation and renovation as well as alteration of existing and new products in composite material.



Create the best environment
in your farm with our
unique solutions.



Indoor silos



Grain handling systems



Slurry systems



Irrigation systems

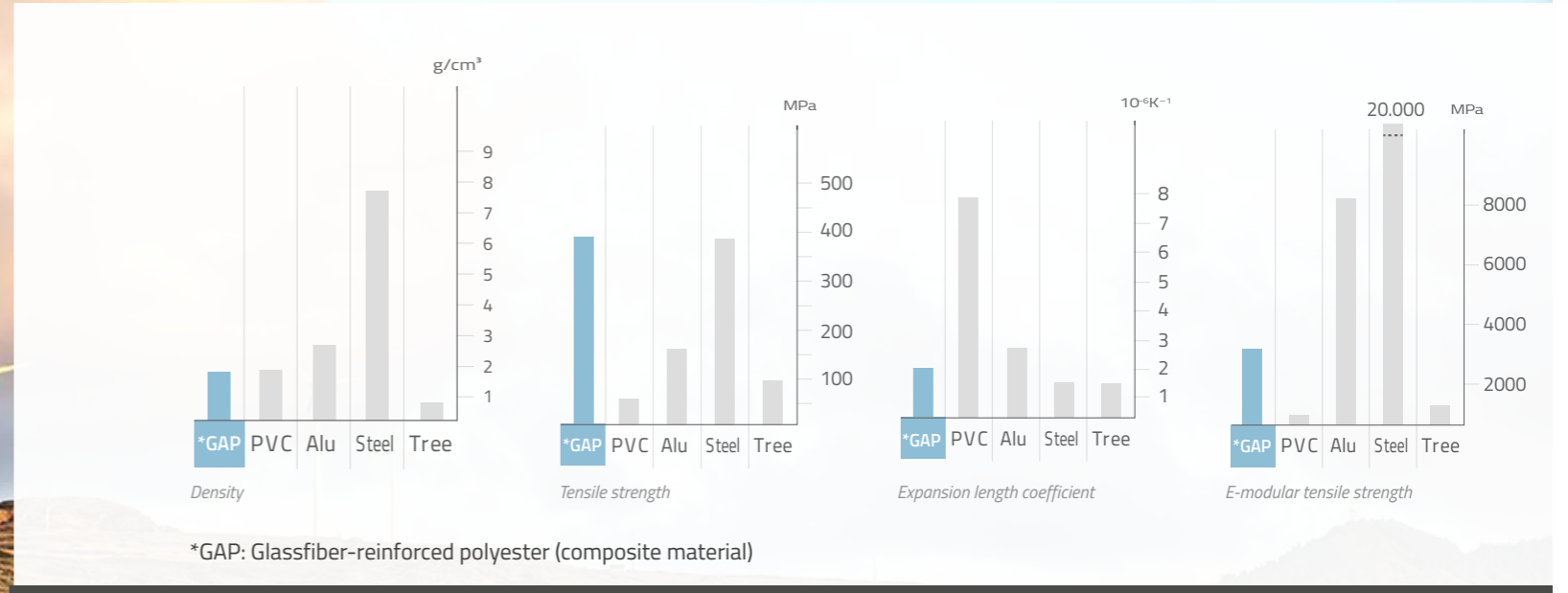


Liquid fertiliser tanks



Products for management of the fallen stock.

Composite materials have more advantages than conventional materials.



What is composite?

Word composite derives from the Latin word "componere". Composite materials are made by physically combining two or more materials. Thereby, a new material with special, targeted and superior properties is created.

Technical properties of composite materials derive from the initial qualities and properties of the combined materials, the combination of the fabrics (matrix, reinforcement, hardener/ curing and additives), as well as the production process and conditions. The principal advantage of composite materials is extreme flexibility in shape and strength.

The possibilities are endless!

Composite has in many areas replaced conventional materials such as steel, wood and concrete, and today, for example, aircrafts, trains, ships and tanks are predominantly made of composite materials.

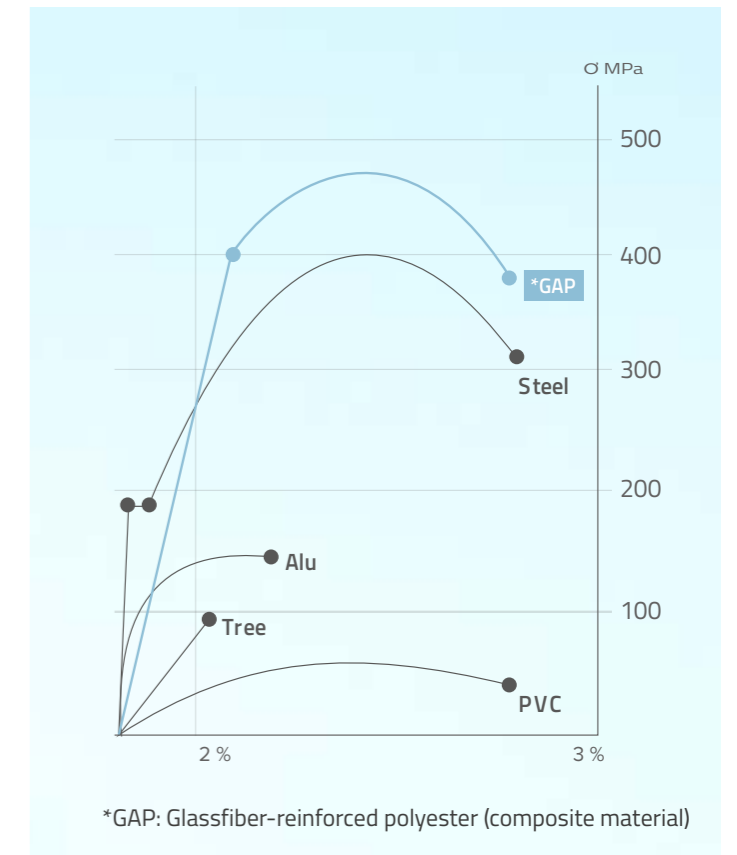
Composite materials are recyclable, both with and without processing. By recycling the material, roughly similar and often even better properties are obtained in relation to new materials.

“Composite materials can be recycled both with and without processing.”



The benefits of composite materials

- High specific rigidity.
- High specific strength.
- Chemical resistance.
- Corrosion and temperature resistance.
- Low weight.
- Highly resistant to fatigue and weakening.
- Aesthetically superior surface finish and large choice of colours.
- Cost-effective design optimisation.
- Customised features.
- Minimal maintenance.
- Noise-reduction and flexibility.
- Thermal and electric insulation.
- Anti-magnetic.
- Moisture resistance.
- Low thermal expansion coefficient.
- Easy processing and mounting.
- Free from sparks and metal.
- Electromagnetic transparency.



Innovative and functional products, systems and solutions for industry.



INDUSTRI

Industry

Standard and custom made industrial solutions in fiber-reinforced composite material.

Tunetanken produces i.a. silos, horizontal and vertical tanks, industrial pipes, chimneys and modular tanks as well as products that are suitable for contact with food.

Innovative and functional industrial solutions

Tunetanken carries a large and broad-based programme of industrial products and systems. We supply both sub-components as well as complete solutions adapted to our customers' needs – from idea generation and development to production, mounting and service.

Our solutions are produced in fiber-reinforced composite materials – the materials of the future with unique advantages such as high strength, corrosion resistance, chemical resistance and minimal maintenance that create optimal economic solutions for the industry.

Tunetanken products and facilities are of the highest quality and are thus ideal for a wide range of purposes. Our industrial products and solutions are applicable in harsh production environments as well as for management of dry and liquid content including FCM products, chemicals, gas, air, etc.

Tunetanken also has a strong focus on circular and environmentally friendly production.



Rectangular tanks

Industrial solutions

A broad-based and well thought-out product programme for industry.

Tunetanken industrial products are manufactured to meet the wishes and requirements of our customers.

With more than five decades of experience in manufacturing, Tunetanken products are always made following the highest demands for both quality and functionality.



“ Tanks for all purposes and needs.

▪ Tanks and silos

Tanks and silos for industry can be used for dry as well as liquid content including chemicals, granules, FCM products, etc.

▪ Scrubbers and chimneys

High quality, reliable solutions produced in robust materials that provide possibility to adjust product design and dimensions according to your operating conditions.

▪ Pumps and pumping stations

Solid and efficient solutions for many different purposes e.g., for transportation of wastewater, process water, rainwater or aggressive industrial media.

▪ Vats and basins

Basins, cylindrical and rectangular vats for e.g., storage of corrosive fluids like acids/bases, saline solutions, process water, flocculant agents, wastewater treatment fuels, etc.

▪ Construction

A great selection of construction products for industry e.g., installation cabinets and buildings, site and crew buildings, pultrusion profiles, grates, walkways, etc.

▪ Service

Our service department provides a wide range of services including mounting, condition assesment, reparation and renovation as well as alteration of existing and new products in composite material.



Saddle tanks



Underground tanks

We cover most of your needs and gladly help you underway.



Flue gas purification facility



Chimneys and smoke systems



Silo facility



Pumping station

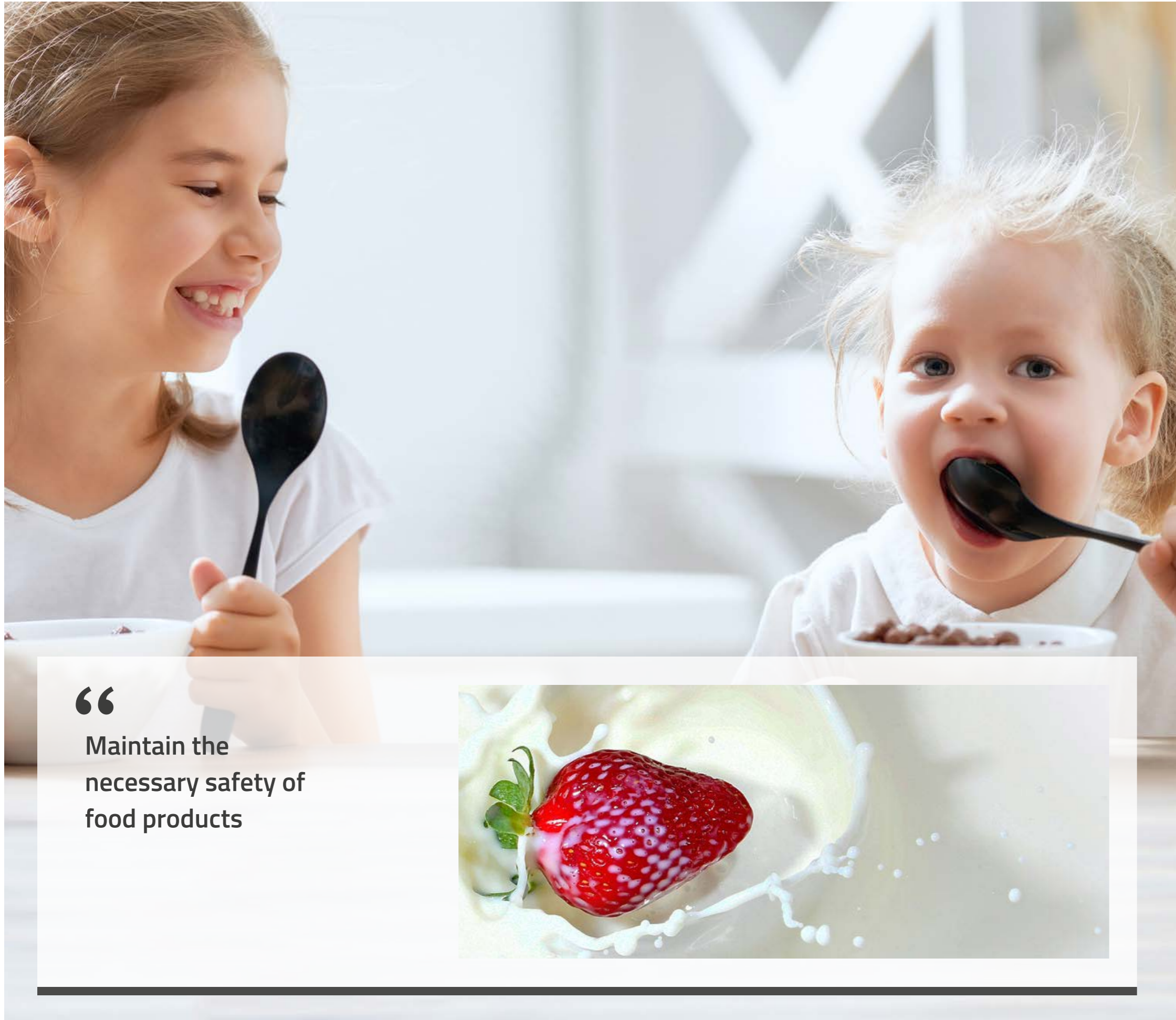


Sludge treatment facility

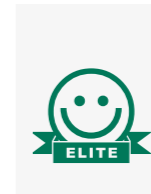


“ Storage vats for chemicals and cleaning agents.

Storage system for chemicals



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 Maintain the
 necessary safety of
 food products



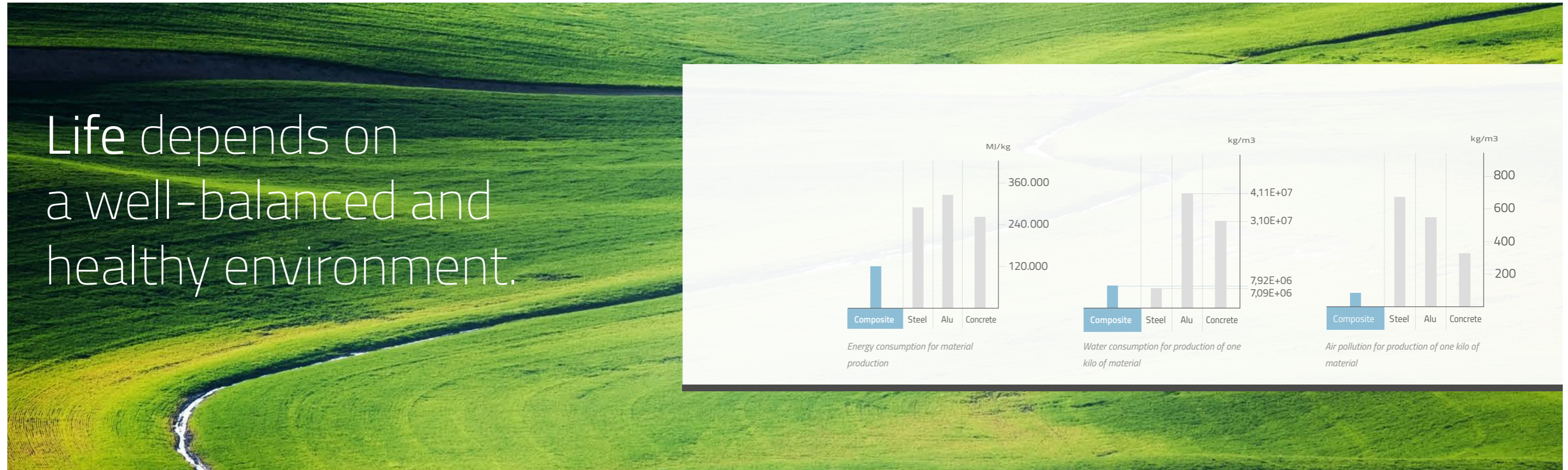
Silos and tanks well-suited for contact with food

Tunetanken FCM products are developed and adjusted to meet our customers' wishes and requirements.

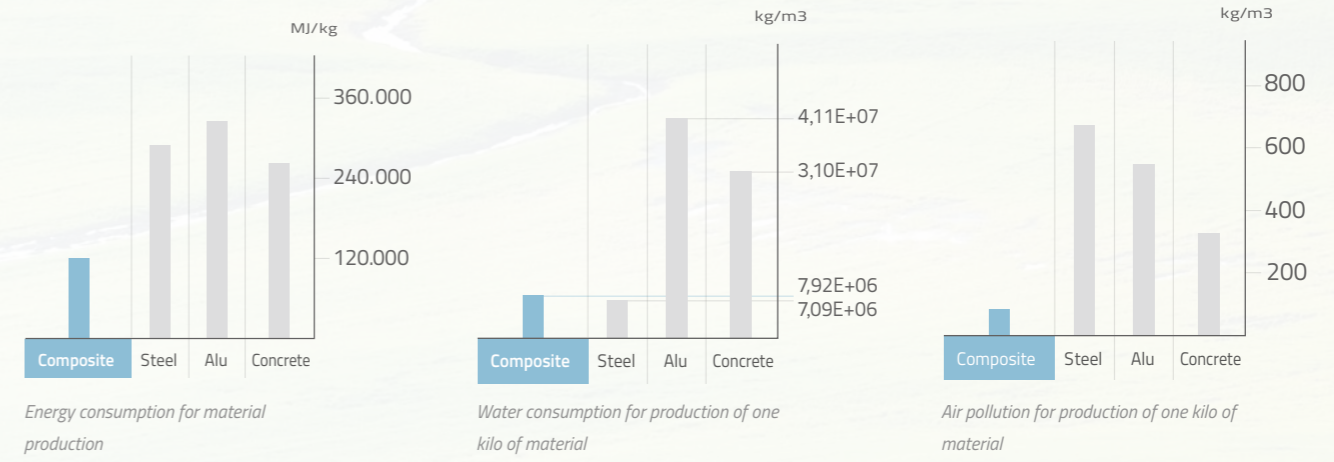
With Tunetanken FCM tanks and silos, your company will be able to maintain the necessary food safety thus securing high production quality.

Our products are produced in accordance with the EU regulation 1935/2004, which secures compliance between consisting regulations for materials and objects in contact with food products conforming to exposure limits for migration of residues or colour in contact with different types of food and remedies.

Our products are produced in fiber-reinforced composite materials, which are specially composed of raw materials suited for food contact. Products made in fiber-reinforced composite materials are well-suited for food as they have a long life cycle and are resistant to corrosive contents like acids from protein production, vinegar used for herring pickling, saline solutions for cheese, etc. Furthermore, our products cannot corrode, which is a vital advantage for food and pharmaceutical companies enabling them to maintain a high level of hygiene in production.



Life depends on a well-balanced and healthy environment.



Extremely long life cycle

The optimal technical properties of composite materials such as corrosion resistance, chemical resistance, high strength, flexibility and weather resistance secure an extremely long life cycle compared to conventional materials, and therefore have great environmental and economic advantages.

Operation and maintenance

Unique durability, minimal requirements for operation and maintenance as well as the consequently low consumption of resources for composite materials, contribute greatly to the environmental protection and the economic advantage of composite products.

Together we can help the environment

Environmentally friendly production is important to us. Our customers contribute to the recycling system through an environmental fee when purchasing our products. Environmentally friendly production with minimal energy consumption for production, transport, assembly and maintenance that provides recyclable products with a long life cycle, is a sustainable production.

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It is important for Tunetanken that our production affects the environment minimally



The environment is affected basically by all production

It is important for Tunetanken that our production affects the environment minimally.

We persistently focus on utilising resources effectively, for as long as possible as well as on leaving a low climate footprint.

Recycling and upcycling

Our customers can deliver our products back when they are obsolete, whereafter, we reuse old materials for the manufacturing of new products, as incorporation into new products, as a replacement fuel, for recycling, etc. By using recycled materials, roughly similar and often even better properties are obtained in relation to new materials. If the materials are not recyclable, they can re-enter nature's cycle through decomposition. We purchase used composite products e.g., silos and tanks from our own as well as other manufacturers and we renovate and sell them as recycled products.



Chemically resistant
and corrosion-free
products and solutions
for the energy sector.



ENERGI

Energy

In order to cover our customers' needs Tunetanken keeps a persistent focus on providing a broad-based programme of high quality and efficient products for energy sector.

Efficient and reliable solutions for a wide range of purposes.

With our great expertise, durable fiber-reinforced composite materials and innovative solutions, Tunetanken is your guaranty for Danish produced quality developed to optimise your specific operation conditions – today and in the future.

Unique properties such as chemical resistance, corrosion resistance, insulation, thermal tolerance, noise-absorption, minimal maintenance, etc. are just some of the many benefits of Tunetanken's products and systems.

With more than five decades of experience, Tunetanken delivers i.a. smoke and air ducts, scrubber systems, covers, biogas treatment systems, chimneys, tanks, silos, ventilation, pipe systems, products for rainwater and wastewater management, etc.

Moreover, Tunetanken has a strong focus on circular and environmentally friendly production.



Vertical storage tanks

Energy efficient solutions

Durable solutions in fiber-reinforced composite materials

Tunetanken products for the energy sector are developed and adjusted in regard to our customers' wishes and requirements. Production using composite materials has such advantages as design freedom and applicability for shape, which allow our products to be customised according to special dimensions, angles as well as particular operating conditions.



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Scrubbers and chimneys
for combustion and biogas
treatment facilities

- **Tanks and silos**

Tanks and silos for the energy sector that can be used for both dry and liquid media.

- **Scrubbers and chimneys**

High quality solutions produced in solid materials that can be adjusted in size and design to better suit your operating conditions and requirements while maintaining the necessary stability.

- **Treatment facilities**

Durable, corrosion resistant products for wastewater and rainwater management, water treatment, odour and air purification, etc.

- **Air systems**

Customised solutions in fiber-reinforced composite materials for smoke and air purification, ventilation, etc.

- **Pumps and pumping stations**

Solid and efficient solutions for a wide range of purposes such as transportation of wastewater, process water, rainwater or aggressive media.

- **Service**

Tunetanken service department provides a wide range of services including mounting, condition assesment, reparation and renovation of products made in composite material.



Pipe systems



Air systems

Covers, odour and air purification systems and wastewater management.



Covers



Cleaning systems



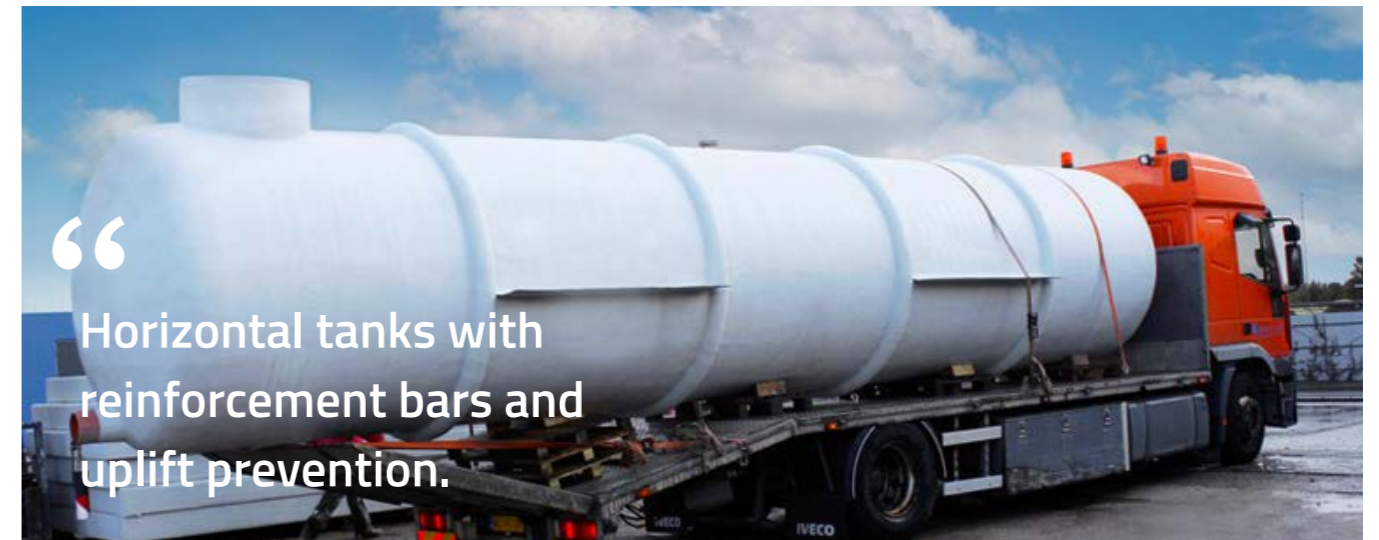
Odour and air purification facility



Profiles and grates



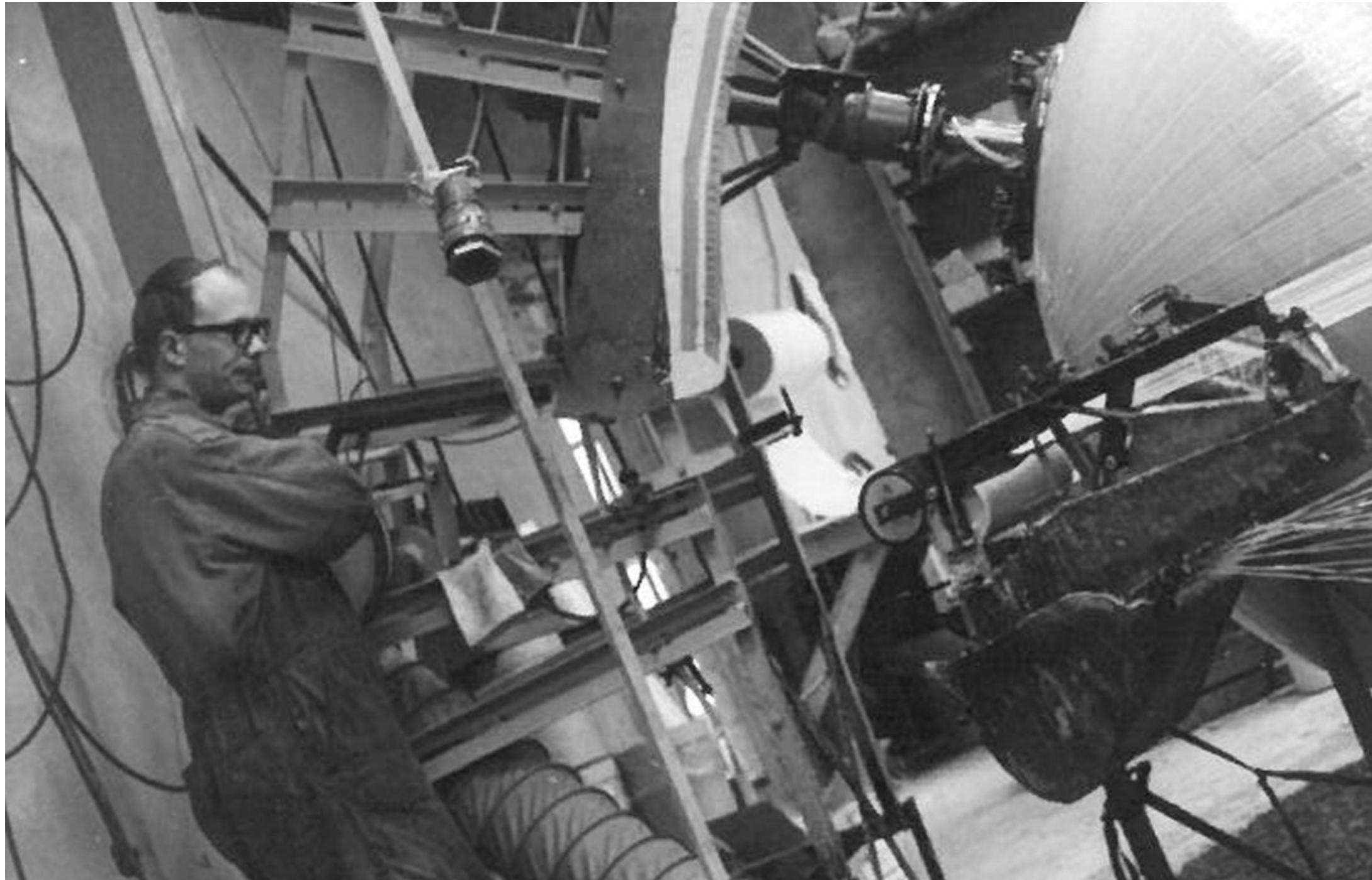
Pumps and pumping stations



“ Horizontal tanks with reinforcement bars and uplift prevention.”

Horizontal tanks

Over 60 years with innovation and technology



Archive photo

Danish produced quality since 1968

Since the establishment of Tunetanken in 1968, customers have been at the centre of our business. Ever since, we have kept a constant focus on quality and innovation in order to create efficient and secure solutions for storage, transportation, and cleaning that meet the requirements of our customers' everyday lives.

1960s – Tunetanken is founded

Tunetanken was founded in 1968 by Børge Christensen and his brothers Helge and Karl Hovad. The three imaginative men had come up with a new production method for producing round, corrosion-free underground tanks in fiberglass. Although environmental protection was not yet a public concern as it is today, it was known that the underground tanks, formerly used for i.a. heating oil, were a ticking pollution-bomb for ground water. Tunetanken spherical tanks were produced in fiberglass-reinforced polyester, making the tanks resistant to corrosive content while the round shape made the tanks resistant to soil pressure, thus enabling the customers to safely place tanks in different types of soil. The production of the first spherical tanks which were destined to become a huge success, took place on Børge's estate in the Tune village near town Roskilde.

1970s – Tunetanken expands

Possibilities provided by the new fiberglass production method alongside the entrepreneurial spirit of the three founders, led Tunetanken to a product range expansion, adding to the programme agricultural silos in the early 70's. The first six silos were set up on a chicken farm in Esbjerg back in 1973. This development was crucial for the success of Tunetanken as agriculture came to be one of the largest markets for Tunetanken. The company has since made an impact on both Danish agriculture and landscape. Due to the development of several new products as well as the increasing demand from existing and new markets Tunetanken remained busy during the 70's. In this period it was decided to move production to its current address in St. Andst – a village located between Kolding and Esbjerg.

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Since the beginning of Tunetanken, the customers have been at the centre of our business.



Archive photo

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...there is also a demand for Danish quality products in foreign markets.

1980s – Danish quality crosses borders

During the 80's, Tunetanken established itself as an important player in the Danish market, waking the foreign markets' demand for Danish quality products. The need for durable, corrosion-free silos and tanks especially increased in Germany and the other Nordic countries. Therefore, during this decade Tunetankens' solutions by all means crossed borders in creating value. Foreign markets in Sweden, Norway and UK became particularly important for export.

Foreign interest in Danish quality in this period as well as the overall positive reputation of Denmark were greatly important for the development of Tunetanken's business foundation. While many Danish companies moved their production abroad, Tunetanken on the other hand, chose to keep production in Denmark, maintaining the ability to deliver Danish quality products quickly to customers on both sides of the border.

– In 2002 Tunetanken ventured into a new area of business – the sewage treatment industry, with a focus on the renovation of old sewer wells.

1990s – Tunetanken stands the test of weather

In the 90's, Tunetanken became a sub-contractor of base components for the wind turbine manufacturer Vestas. Durable composite materials and their resistance to climate influences proved to be particularly suitable for the production of wind turbines, which must be able to withstand e.g., the harsh Nordic weather. In 1999, Tunetanken once again stood the test against the Danish weather, as merely 6 out of 15.000 Tunetanken silos were damaged during a December hurricane, drawing attention to the fact that most of the damage was caused by fallen trees, loose roofing sheets, etc.

During this period, the solvent storage tank for iron chloride was introduced as part of Tunetanken's product programme. Solvent storage tanks were mainly delivered to wastewater treatment plants in Denmark and Sweden to be used in the process of precipitation of phosphates in wastewater. Tunetanken solvent storage tanks quickly became popular due to their resistance to corrosive contents as well as to the soil pressure as solvent tanks are often placed underground.

2000s – Tunetanken bets on development and export

After a decade of growth as well as development in new business areas, Tunetanken met the new millennium with an expansion of old production buildings at St. Andst. The new buildings, primarily built to house the administration, were ready to use in 2001. In 2002, Tunetanken ventured into a new area of business – the sewage treatment industry with a focus on renovation of old sewer wells. This development led to a collaboration with Per Aarsleff Rørteknik A/S, during which a groundbreaking system for renovating old sewer wells was developed. The new system made it possible to mount new fiberglass wells inside the old ones. This new solution became especially popular within the Danish municipalities as it proved to save costs spent on construction and excavation work as well as on new wells.

During this decade, the company drew a lot of attention to export. At this point, having established a number of regular export markets, Tunetanken chose to further expand in the German market. The efforts yielded export among others to Singapore and Yemen. This period was equally significant to the development of the Tunetanken silo programme. In 2006 a record-breaking fodder silo reaching 75 m³ and an airtight grain silo of 215 m³ were launched.



Archive photo

After 50 years on the market, experience confirms that keeping production close to development notably improves quality as well as reduces delivery time.



– Development and presentation of large and comprehensive product programmes provide customers with opportunity to have their needs for high-quality products fully covered by Tunetanken complete solutions.

In 2012, Tunetanken also acquired a company called Fiberteam in order to strengthen the service department. By bringing in competences in maintenance and renovation of fiberglass tanks, Tunetanken was able to provide better customer service. In 2012, Tunetanken improved once again by complying with EU food contact legislation in accordance to EU regulation 10/2011/EC, which enabled the company to manufacture materials and articles intended to come into contact with food. This new approval meant that from then on customers received full guaranty that Tunetanken products were manufactured using only the approved commodities which do not release any residue when in contact with food. The new approval was particularly well-received by Tunetanken's customers within the food, pharmaceutical and cosmetics industries.

2020s – Large product range and increased focus on sustainability

Tunetanken becomes known for much more than silos and tanks. Development and presentation of large and comprehensive product programmes provide customers with opportunity to have their needs for high-quality products fully covered by Tunetanken complete solutions. Our capacity within product development and optimisation is, therefore, significantly increasing.

For many years now, Tunetanken has been focused on sustainable production. Therefore, we recycle next to all of our material residue; we receive our own products back for both up-cycling and recycling; we have biological-friendly facilities and take good care of our production area. Most recently, we took sustainable production one step further by establishing a market for selling and purchasing of used silos, tanks, vats, and basins. We purchase these products, renovate them, and sell them again with warranty. This is an initiative that secures low consumption of the Earth's resources at the same time providing our customers with an opportunity for both an economically advantageous purchase and a sustainable contribution. Tunetanken has set priority and focus for a continuous development towards a more sustainable future.

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For many years, Tunetanken has had a great focus on sustainable production.

2010s – Innovative solutions strengthen the business

Throughout this decade, Tunetanken kept focus on development. In 2010, Tunetanken launched the salt silo, which was a further improvement of the solvent storage tank for iron chloride. The demand for salt silos that can ensure a precise and easy mixing process especially increased in Germany. In 2012, Tunetanken launched the new FullFlow bottom outlet system, which provided efficient emptying of the silo and prevented fodder from piling up and thus diminishing the fodder quality. Same year Tunetanken developed a new air in-blowing system which met the new requirements for modern supply trucks. The new system was able to reduce the time used to blow the media in by almost 40% while maintaining the high fodder quality, thus providing great saving opportunities throughout logistics.



Tunetanken - Vejen



Tunetanken

With more than 50 years of experience in fiber-reinforced composite materials unique advantages and a large standard product programme we have developed our market position as the leading Danish manufacturer of storage tanks, industry systems and silos in composite materials.

Tunetanken markets a large and varied programme of products and facilities for various purposes as well as supplies a large range of industries including agriculture, industry, wastewater and water treatment for energy sector. We produce all our solutions in fiber-reinforced composite materials – the same materials that are used in the manufacturing of space shuttles, air planes and wind mills. With benefits as strength, corrosion resistance and long life cycle, composites are among the popular materials of the future.



Composit

Composite is derived from the Latin word »componere«.

Composite materials are made by combining two or more materials (physically not chemically), thereby creating a new material with specially intended and superior properties.

Technical properties of composite materials derive from the initial qualities and properties of the combined materials, the combination of the fabrics (matrix, reinforcement, hardener, additives), as well as, the production processes and conditions.

Possibilities are endless!



Environment

For Tunetanken, it is important that production has a minimal impact on the environment. Therefore, we continuously focus on utilising resources efficiently, for as long as possible, as well as on leaving a low climate footprint.

Our customers can return their obsolete Tunetanken products, whereafter, we reuse old materials for the manufacturing of new products, as incorporation into new products, as a replacement fuel, for recycling, etc. By using recycled materials, roughly similar and often even better properties are obtained in relation to new materials. If materials are not recyclable, they can re-enter nature's cycle through decomposition. We purchase used composite products e.g., silos and tanks, of our own as well as of other manufacturers' production, after which, we renovate and sell them as recycled products.

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