



AGRO



# Modular Silos

in fiber-reinforced composite material



# Modular Silos

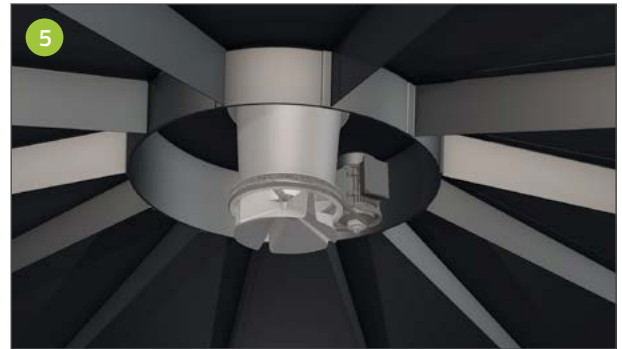
Tunetanken Modular Silos for storage, drying and distribution of relatively large volumes of dry media such as grain, seeds and powders. Modular silos are delivered in modules that can be assembled and mounted at the place of establishment.

Modular Silos can be delivered with various equipment such as diffusers, agitation systems, aeration systems, blowers, emptying and filling systems, manholes, filling detectors etc.

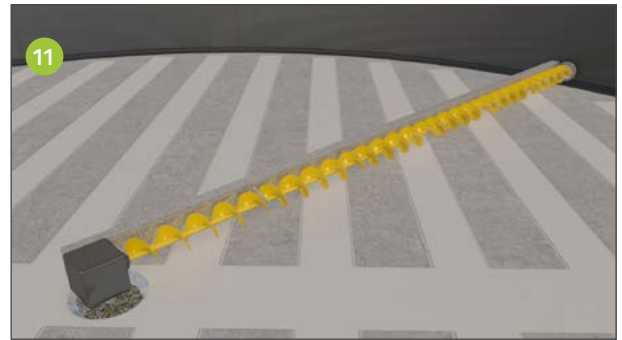
Modular Silos have many benefits such as very smooth and sleek surfaces, rounded edges and transitions, which ensure extremely high hygiene standard as well as good insulation properties, that minimise condensation.

Modular Silos are made of fiber-reinforced composite, which has unique properties such as chemical resistance, corrosion resistance, thermal and electric insulation, high strength and more.

**Tunetanken Modular Silos are thought out with regard to installation, operation, maintenance, life time, environment.**



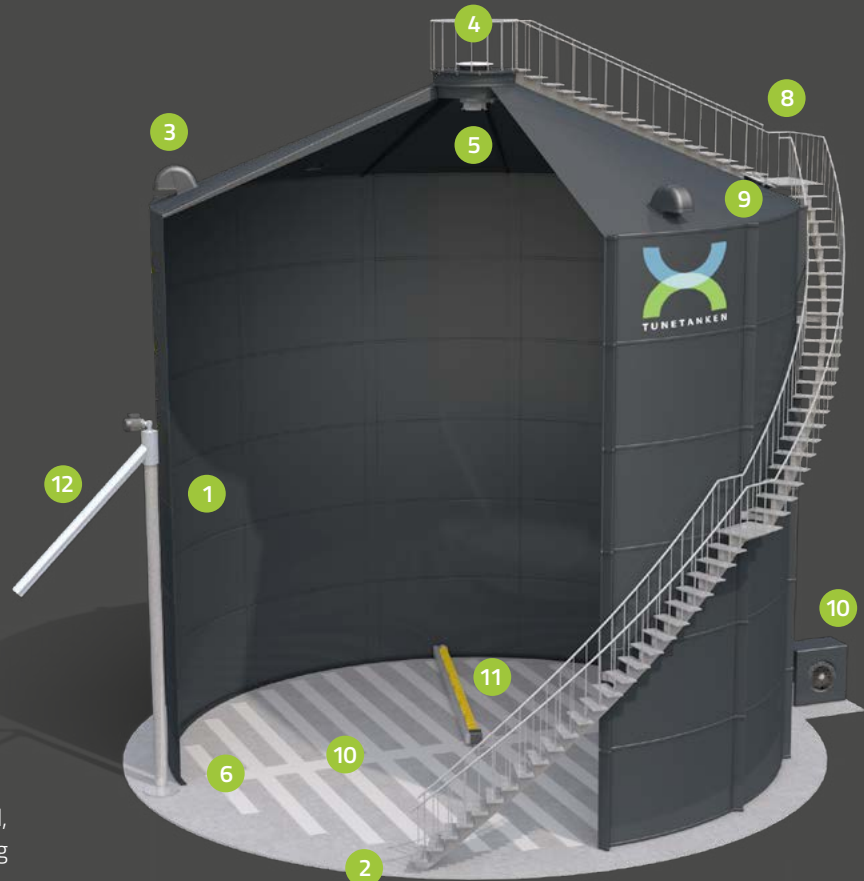
Spreader on the inner side of the silo, by the filling opening at the top.



At the bottom a rotating screw conveyor leads the media to the unloading system.

## Benefits

- 1. Smooth inner surfaces**  
Smooth inner surfaces facilitate the cleaning and ensure that the stored media can slide easily, securing a dynamic mass-flow.
- 2. Inspection hatch/ entrance**  
Custom made inspection hatch facilitates monitoring and cleaning of the Modular Silo (see brochure cover picture).
- 3. Roof vents**  
Designed to prevent precipitation from entering the silo.
- 4. Large inlet/filling opening**  
Large filling opening with a lid and a possibility to connect transport pipes, filling equipment etc.
- 5. Spreaders** at the top of the silo separate and distribute the in-blown media.
- 6. Bottom outlet according to your needs**  
Modular silos can be produced with a cone-shaped, dome-shaped or a flat bottom outlet - all according to your needs.





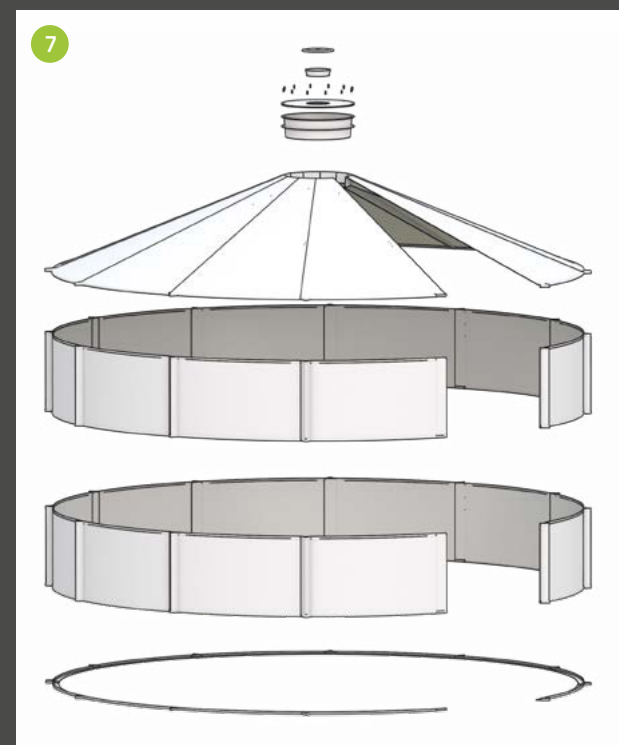
## Benefits of Tunetanken Modular Silos

- > Flexible modular system that offers many different construction options.
- > Sizes from 340 m<sup>3</sup> to 12,500 m<sup>3</sup>.
- > Laminated construction ensures water-tightness and strength.
- > Produced in fiber-reinforced composite material with unique properties like corrosion resistance, chemical resistance and insulation.
- > Large selection of extra equipment for grain drying, spreading, aeration etc.
- > Can be delivered in various colours.

## Equipment

- 7. Modular construction**  
Modular Silos allow for variable sizes and solutions. All joints are fully laminated for easy cleaning thus providing a high level of hygiene.
- 8. Modular ladder/staircase**  
Modular staircase with railing and landing. When building several silos together, a connecting walkway between the silos is provided.
- 9. Inspection hatch**  
Inspection hatch is placed at the top of the Modular Silo by the end of the stair landing.
- 10. Blower/fan and aeration system** in the floor.
- 11. Screw conveyor**  
Rotating screw conveyor in the floor directs the media to the center of the silo and towards the emptying system.
- 12. Unloading system**  
Leads the media from the funnel at the bottom, via pipe under the floor and out to a discharge pipe.

## Flexible modular system





## Tunetanken

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With more than 50 years of experience working with fiber-reinforced composite materials, their 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.



## Agro

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Tunetanken offers a broad programme of products, facilities and systems for agriculture. We produce silos, tanks, airtight silos, grain handling systems, hay and grain drying systems, carcass covers, slurry systems, shelters, buildings, irrigation systems, barn inventory et al.

Most of our products are made with the incorporation of fiber-reinforced composite materials, which with their unique properties are extremely suitable for the demanding agricultural environment.

Modern composite materials are materials of the future. The innovative and unmatched technical material properties contribute greatly to the development of new sustainable products and solutions, which are necessary for a sustainable future.



## Composit

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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!

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