



# GRAIN STORAGE.

**TURNKEY**



An expert  
at your side.



# Our Experience. Your vision.

Cimbria is more than the equipment we produce. We are professionals who thrive on building creative solutions to bring your vision to life. We've been doing it since 1947. We combine the right technology with the right team to bring it all together. Our purpose is your success. You can feel confident because you have an expert at your side – helping you grow into the future.



# Perfect Conditions for your Custom Storage.

Every year, a large percentage of grain is lost as it makes its way from the field to the table. Cimbria's grain storage solutions can help minimize post-harvest loss, while maintaining grain quality to maximize your profit.

Our in-house technology and experience allow us to **design and supply tailor-made storage solutions to meet your requirements** - in virtually any size and any climate. From intake to pre-cleaning, drying and storage, we offer complete systems to preserve your grain and optimize results.

Our monitoring applications, temperature control systems and plant management software will give you total control over your storage performance and efficiency. While our project management support, **for new and existing plants**, will give you peace-of-mind that the job will be done right. Because you have an expert at your side.





## Intake.

Cimbria intake systems are designed and manufactured to fit the specific requirements of each individual product and plant. For environmental reasons, the intake building can be provided with an intake dust separation filter system to efficiently collect the dust that escapes when unloading trucks.

Heavy-duty intake drive over grids are designed and manufactured to meet local requirements. The reinforced steel intake hopper has an outlet for direct connection to the selected chain conveyor side inlet.



## Pre-Cleaning.

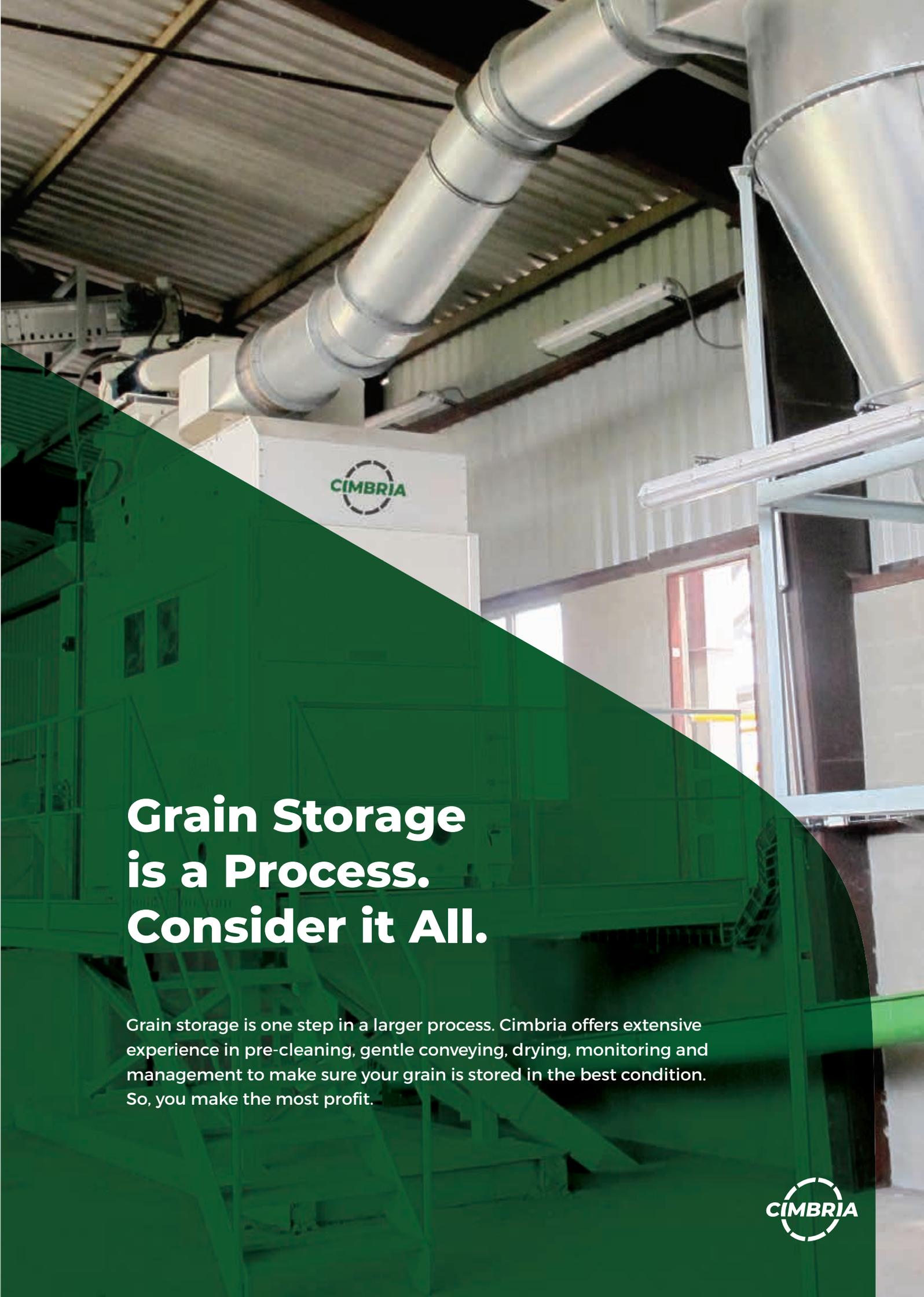
Pre-cleaning separates foreign materials, such as large impurities, sand and weeds to purify and improve the crop. It is key to optimal product storage and is one of Cimbria's specialties.

The Cimbria Scalper is a high-capacity unit that removes larger impurities such as non-grain foreign material and sand. It also has an efficient dust aspiration system, which collects and removes light dust.



## Drying.

Proper grain drying ensures problem-free, long-term storage. Grain drying is especially critical for products like rice, maize and soybeans and in climates where the reduction of moisture is necessary to avoid potential issues during storage. Cimbria has more than 75 years of experience helping customers dry their grain gently, efficiently and economically with their line of continuous flow dryers.



# Grain Storage is a Process. Consider it All.

Grain storage is one step in a larger process. Cimbria offers extensive experience in pre-cleaning, gentle conveying, drying, monitoring and management to make sure your grain is stored in the best condition. So, you make the most profit.





# Round Silos – High Volume.

**Optimum storage of grain is crucial to protect the harvest and get the maximum profit.**

Cimbria is one of the global leaders in grain handling and storage with millions of tonnes of capacity installed around the world. Our experts can help you design the right storage solution for your operation.

Our bins are engineered with high quality galvanized steel to be durable and handle high loads.

The bin's roof design promotes increased airflow. The bins cooling and temperature monitoring systems ensure even temperatures from the floor to the ceiling. Our bin sweeps make cleanout gentle and efficient.







# Square Silos. Volume Flexibility



Cimbria square silos are manufactured to store many different smaller quantities of grain products, with capacities of up to 20,000 m<sup>3</sup> or even higher. Built with heavy, trapezoidal, or face-plated steel plate, and with cell sizes up to 4m x 4m, they can be delivered in several combinations. Each silo is individually and precisely designed to meet the customer's specific demands.

## STANDARDS AND REGULATIONS APPLICABLE TO CURRENT EURO CODES

### Steel structures, silo bins, walls and silo decks

- Consequences class - CC2 (Acc. DS/EN 1990)
- Service category - SC1/SC2 (Acc. DS/EN 1090-2)
- Production category - PC1/PC2 (Acc. DS/EN 1090-2)
- Execution class - EXC2/EXC3 (Acc. DS/EN 1090-2)

# Hopper Silos. Fast Cleanout.



FOR MORE  
INFORMATION  
VISIT OUR  
WEBSITE

Mainly used as pre-storage tanks, hopper silos are designed for easy and complete cleanout. The silos are installed on a steel according to the plant design. Made with galvanized steel with different customizable options, they are built with maximum quality to last.





# Conveying.

## Chain Conveyor.

Cimbria chain conveyors are built in a modular system ensuring fast installation and maximum operational safety due to carefully calculated chain speeds, the use of worldwide recognized sub-suppliers on e.g. gearboxes and bearings, sturdy design and wear-resistant materials in critical areas of the conveyor.



## Bucket Elevator.

Cimbria bucket elevators are designed for gentle and reliable product handling – a wide range of sizes, combined with flexibility in choice of belt speed and type of buckets, ensures long lifetime with only minimal maintenance and wear parts required.



## Belt Conveyor.

Whenever gentle handling, low kW consumption, long conveying distances or high conveying capacity are decisive factors, a Cimbria belt conveyor is the ideal solution. A wide range of belt widths, combined with various diameters of carrying rollers and drive and tension drums as well as the possibility of offering conveyor frames in either pre-galvanized plate or welded and hot-dip galvanized heavy duty execution, is your guarantee of for the right solution for your application.



## Screw Conveyor.

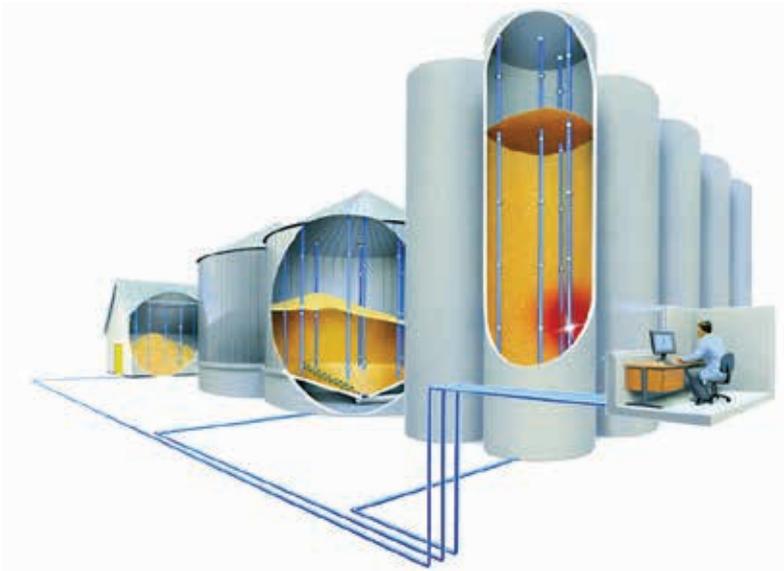
Cimbria screw conveyors are designed for efficient and reliable conveying of grain. The screw conveyors can be supplied for horizontal or inclined conveying.



## Outloading.

The outloading system, carried out by the Moduflex range of loading chutes, can be supplied for tanker trucks, flatbed trucks, open and closed rail wagons and containers, or it can be manufactured in a sturdier construction for shiploading. The choice of the best option depends on customer requirements in terms of capacity, heavy duty performance and long-term durability.

# Aeration And Temperature Monitoring.



## Control & Automation.

Modern storage requires an effective and reliable control system. Connecting your factory with our automation & control solutions drives your plant to operational excellence, as all installed equipment operate at their optimum performance, thereby ensuring you the best economy of the entire system throughout the lifetime of the plant. Our software, the SCADA system, is tailor-made for operations, monitoring and alerts and it can be controlled by the operator from one or several locations.

To facilitate the daily routine, all routes are saved and can be easily accessed. Operating statistics can be set and monitored, enabling scheduled service and preventive maintenance to be carried out on time.

## Temperature Control.

The Cimbria Temperature Monitoring System, Cimbria Unitest, safeguards your harvest during storage in silos. The inside temperature is constantly monitored by means of sensors spread throughout the area while the external weather conditions are considered by the system, with the focus of avoiding unnecessary ventilation. This ensures that savings are achieved in terms of energy consumption.

## Stock Monitoring.

The Cimbria Inventory System can be integrated into each silo for indicating the stock level. This is a unique technology able to scan any shape of grain pile in 3D, so returning a very accurate indication of the volume of the stored grain, with 99% accuracy as certified by independent auditors.

**CIMBRIA A/S**

Faartoftvej 22

7700 Thisted

DENMARK

Phone: +45 96 17 90 00

Follow us   

