

# Trevibox: a Trevira antistatic fabric silo with a fluidised bed

A new launch in the storing solutions for macro ingredients range, the Trevibox blends Cepi's existing Trevira fabric silo and Silbox metal fluidised silo into a single solution

Solutions in patented antistatic Trevira fabric offer many advantages: as well as reducing costs, they are more customisable than steel or aluminium solutions, and the antistatic properties in the Trevira fabric prevent the formation of static electricity, ensuring production safety. Trevira fabric also creates a greater balance between environment and product, letting the product breathe and achieving a faster and easier balance between outside temperature and product temperature.

The wide exchange surface ensures that in case of storing in a climatized environment the temperature of the product follows that of the environment more speedily.

The Trevibox model includes all these features and adds the advantages of Silbox. The addition of a fluidised bed allows for chronological extraction with FIFO logic, which greatly enhances the traceability process. Trevibox has higher metering capacity in all processes including metering by pressure, and provides multiple extraction without bridges. The flour oxygenation operated by the fluidised bed leads to a crucial improvement in the quality of the flour, with a faster but natural maturation that improves the flour's rheological properties without using additives. Fluidised flour is much better for breadmaking, with better responses to all treatments from dough preparation to fermentation. The dough is more elastic and

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easier to work. It absorbs water more easily and keeps gas in more easily during leavening. Bread made from well oxygenated flour is softer thanks to a more alveolar product, and more digestible as oxygenation allows for longer leavening.

Thanks to Cepi's patented equipotentiality technology, the Trevibox complies with ATEX regulations, which consists of two EU directives describing what equipment and work space is allowed in an environment with an explosive atmosphere. The Trevibox comes with advanced safety systems to guard against both overpressure and underpressure. This allows weight control in real time, integrated automation and full traceability.

## Company profile

Cepi designs, manufactures and installs turn-key systems for the storage, conveying and metering of raw materials, as well

as fully integrated automation and technologies to complete all production processes. Since 1985, the company has built more than 10.000 installations the world over, working with the most important companies from all sectors of food manufacturing. With a vision prioritising research, flexibility and continuity, Cepi provides full vertical integration and direct manufacture of all equipment, making their solutions as efficient and specialised as can be and ensuring continuity through all operations and all encompassing support.

Cepi is based in Italy and operating globally, with offices in Malaysia to coordinate operations in the Asian market. Cepi has developed an unparalleled range of technologies through efforts to meet the special needs of each project and provide full cover of its processes.

Cepi's projects are built around the development of a close relationship with their customers, through an ongoing conversation that involves all aspects of the projects – from product and process analysis, to engineering and control, manufacture, commissioning and service. They bring to the table a global knowledge of materials, environments, and markets as well as the continued research that goes into developing around 300 unique systems every year. With the focus on customisation that pervades all aspects of their work, they dedicate to each project the level of individualised care it deserves.



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