

PRESS RELEASE

Zeppelin Systems offers complete solutions for the food industry

Rödermark, April 3, 2023. As an integrated solution provider and experienced engineering partner, Zeppelin Systems has been supporting countless customers in the food industry for many years. Efficient, reliable processes and reproducible quality on an industrial scale are integral to the system manufacturer's promise to its customers. At the Interpack trade fair in Düsseldorf, Zeppelin Systems will be presenting further components of its comprehensive portfolio, including state-of-the-art system technology for the food industry. The fair will be held May 4 to 10, 2023.

With Zeppelin Systems components, customers from the food industry can store, discharge, convey, process, weigh, dose, humidify and process products on an individually configured basis. In addition to basic engineering, the extended range of services also includes assembly, production optimization, predictive maintenance and a comprehensive training program – conducted on site or virtually. “For us, the optimal complete solution for the customer is always the focus of every project,” says Josef Art, Vice President of Food & Recycling Plants at Zeppelin Systems. “In line with our customer promise We Create Solutions, we supply everything from one source over the entire life cycle of the system,” adds Zeppelin Systems CEO Dr. Markus Vöge. After the long break from the trade show due to the global COVID-19 pandemic, the international Interpack trade fair is an absolute industry highlight for the equipment manufacturer. Zeppelin Systems will be presenting solutions for the bakery, confectionery and pet food industries in Hall 4, Stand 35, with around 1300 square feet of exhibition space. The experienced system builder will also cover the topics of starch and proteins.

Perfect dosing

One example of know-how in the food sector is the Codos continuous mixing and kneading system from Zeppelin Systems. Consisting of three components, the system combines dosing liquids, dosing solids, and a continuous production of dough. The system therefore achieves consistent dough quality and optimal results at all times. This allows customers to use a fully automated kneading system.

Special hydration

The hydration system DymoMix (dynamic moisture mixing system) serves as a premixer in the Codos system to provide a supplementary production step: By hydrating powdered components with water or oil, a homogeneous dough mixture is formed. Thanks to a special process, a high-quality dough is produced even at low moisture contents, which can either be further processed without intermediate steps or "kneaded out" in the Codos kneader. This means fully automated, profitable time savings for Zeppelin Systems customers.

Efficient kneading

The horizontal, continuous Codos NT kneader supports the bakery industry in producing dough. The clever kneading system combines the conditioning of the raw materials with the kneading process. The kneader provides uniform distribution of liquid and energy input, as well as maintaining a predetermined temperature. It can be quickly adapted to different performance requirements. In addition, it is easy to clean – an important aspect in the food industry and once again an advantage for Zeppelin Systems customers.

Gentle conveying

Zeppelin Systems has been a technology leader in gentle pneumatic conveying of bulk materials for many years. Dense-Tec dense flow conveying enables bulk material to be conveyed without destroying the structure of the products. Pet food manufacturers particularly appreciate this range of services offered by the system manufacturer.

Precise dosing and weighing

Zeppelin Systems has developed manual and customized, automated solutions specifically for small components. From batch weighing to differential dosing scales including a control system, the system manufacturer offers exactly the right solution depending on the customer's requirements. Zeppelin offers gravimetrically working systems with mass flowmeters for handling liquids.

Increase efficiency and effectiveness

Energy efficiency and effectiveness play an important role in the food industry, especially when it comes to large systems with a higher conveying capacity. Zeppelin Systems replaces mechanical conveyors with pneumatic ones because they are faster and more efficient. They also save energy, can handle longer distances and require less maintenance.

Automation and digitization solutions made by Zeppelin Systems

In the food industry, systems are becoming ever larger and more complex, and production sites are often distributed worldwide. Zeppelin Systems presents corresponding automation and digitalization solutions for this purpose, which are known collectively as NAMiQ. The recipe and batch management software 'NAMiQ recipe', for example, enables operators to plan and control production in a fully automated way. Another module called 'NAMiQ analytics' offers various dashboards to present and evaluate processes in a significant way. For example, customers can analyze the causes of failure and continuously optimize system availability. The NAMiQ sustainability module is available to system operators who value sustainable processes. This digital service includes various dashboards and displays the electricity, compressed air and water consumption of systems.

In a nutshell, Zeppelin Systems accompanies almost every processing stage in the food industry as an engineering partner and offers the right system solution for every customer challenge. The system manufacturer integrates drying and coating processes, as well as systems for dust removal and temperature control, quality assurance measures, and concepts for explosion protection. We Create Solutions!

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About Zeppelin Plant Engineering

Zeppelin Systems specializes in the design, construction, and technological upgrading of industrial plants for storing, conveying, mixing, dosing, and weighing high-quality bulk materials and raw materials. With around 1,700 employees worldwide, Zeppelin Systems provides daily solutions for customers in the plastics, chemicals, rubber, and tire industries. Customers in the food industry also value Zeppelin Systems' many years of technological know-how and experience in delivering turnkey solutions. From plant planning and project implementation to after-sales service including process optimization – Zeppelin Systems is an integrated solutions provider, delivering complete solutions from a single source. Every Zeppelin plant is characterized by tailored features to meet specific customer requirements, smart automation solutions, and comprehensive service. We refer to this as the embodiment of engineering art, and we apply it to the entire life cycle of a system. With roots in Germany and global operations at more than 20 sites around the world, Zeppelin Systems makes industrial-scale testing available to its customers, thereby facilitating the assessment and sustainable optimization of their plant design. Zeppelin Systems also develops and manufactures mechanical and plant engineering components that can be seamlessly integrated into third-party systems. We Create Solutions for our customers every day! For more information, visit www.zeppelin-systems.com.

About the Zeppelin Group

The Zeppelin Group offers solutions in the construction industry, drive and energy systems, engineering and plant engineering. The Group provides customers with expertise in a number of areas, from the distribution and service of construction, mining, forestry and agricultural machinery, through rental and project solutions for the construction sector and industry as a whole, to drive and energy systems as well as engineering and plant engineering and enhances its offering with digital capabilities in all areas. Zeppelin is represented at more than 340 sites in 26 countries and regions worldwide. In the 2022 financial year, the Group workforce comprised over 10,000 employees, which generated sales of EUR 3.8 billion. The Group organizes its activities into six strategic business units (Construction Equipment Central Europe, Construction Equipment Nordics, Construction Equipment Eurasia, Rental, Power Systems, and Plant Engineering) and the Zeppelin Digit Strategic Management Center. Zeppelin GmbH is the Group holding company. It is legally domiciled in Friedrichshafen and has its head office in Garching bei München. The Zeppelin Group is a foundation-owned company. Its roots can be traced back to the establishment of the Zeppelin Foundation by Graf Ferdinand von Zeppelin in 1908. For more information, visit zeppelin.com.

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