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Press Release

Coperion and Coperion K-Tron at the Anuga FoodTec 2018

Everything under one roof: Components and systems for the production of food and pet food

Stuttgart, February 2018 – At this year's Anuga FoodTec (March 20-23, 2018, Cologne, Germany), Coperion and Coperion K-Tron will be exhibiting their innovative technology solutions for the production of food and pet food. Various examples of their renowned hygienic components will be on display at their booth B-040 / C-041 in Hall 4.2, including the ZVH rotary valve, the ZRD rotary valve with new RotorCheck contact monitoring system, and the WZK two-way diverter valve. Coperion will also be presenting a ZGF 70 centric pelletizer that is used in extrusion plants for the production of directly expanded food such as cereals, aquatic feed and pet food. In addition, Coperion K-Tron will be exhibiting microfeeders for the precise metering of small quantities, and the electronic pressure compensation system EPC for improved performance of loss-in-weight feeders in closed feeding systems. Coperion and Coperion K-Tron have been supplying technology for the food and pet food industry for many years. In order to satisfy the ever increasing requirements with regard to hygiene and reliability, they focus on product cleanability and safety when developing and designing both single components and complete systems.

Improved components for bulk material handling

At Anuga FoodTec, Coperion will be presenting the optimized ZVH rotary valve, which is particularly suitable for the dense phase conveying of friable products, such as coffee beans. The ZVH also impresses with increased throughput. The new inlet design features a larger effective inlet area, increasing the maximum feeding capacity and throughput. An increase of up to 15% is possible, especially for smaller sizes.



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The Coperion ZRD hygienic rotary valve will also be on display, outfitted with the new version of the proven RotorCheck contact monitoring system. The new RotorCheck system 5.0 registers, evaluates and reports unwanted contact between the rotor and housing in order to be able to prevent metallic abrasion and thus potential contamination of the product being conveyed. This improves safety and convenience when operating rotary valves, particularly in processes with high quality requirements, frequently changing products and recipes or a high number of cleaning cycles.

Also on display, the WZK two-way diverter valve was developed specially for conveying pellets and powders. The diverter valve has a cylindrical design with pressure assisted seals and is suitable for installation in conveying lines or in gravity pipes at up to 5 barg.

Highly accurate feeding solutions for micro-ingredients

Coperion K-Tron will be presenting a family of single and twin screw microfeeders, specifically designed to provide maximum accuracy at minimal feed rates. Unique design features ensure that high value ingredients are fed accurately at rates as low as 32 g/hr with minimal residual material left in the feeder. The modular design means more flexibility for the process and easy access to all parts for cleaning, maintenance or recipe changes. The 12 mm and 16 mm twin and single screw feeding modules are completely interchangeable and feed a wide range of free-flowing to difficult powders.

Innovative electronic pressure compensation system (EPC)

Alongside the microfeeders, Coperion K-Tron will be presenting the electronic pressure compensation system (EPC) for their high-accuracy loss-in-weight feeders. The main advantages of the new system include improved accuracy and reliability as well as lower initial cost and easier installation compared to traditional mechanical pressure compensation systems. Coperion K-Tron has now developed a clever but simple electronic solution for accurate and steady pressure compensation in feeder hoppers and outlets. The modular design incorporates pressure sensors and electronics tailored to interact smoothly with Coperion K-Tron's KCM feeder control system. Retrofitting options for existing feeders are available. EPC can be installed on a majority of Coperion K-Tron gravimetric feeders in almost any application and all industries.



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ZGF 70 centric pelletizer for the production of directly expanded products

The ZGF centric pelletizer from Coperion has been used successfully for many years in extrusion plants for the production of directly expanded food stuffs such as cereals, aquatic feed or pet food. The knife rotor of the pelletizer is arranged centrally to the die plate. The length of the pellets produced can be influenced easily by the number of knives and by the speed of the knife rotor. The pelletizer hood and the die holder in the ZGF centric pelletizer can be swivelled to provide easy access for cleaning the screws, mounting the die plate and quick changeover of the die plate. It is connected to the ZSK twin screw extruder by quick-release connections. The knife rotor is spring loaded on the die plate. This ensures a constantly even contact between the knife and the die plate. The distance between the knife blade and the die plate can be finely adjusted during operation.

Focus on hygiene and product safety

In order to satisfy the ever-increasing hygiene and safety requirements of the food and pet food industry, Coperion and Coperion K-Tron design their single components and systems strictly in accordance with the applicable regulations and guidelines. EHEDG, FDA, FSMA and/or GFSI requirements, as well as the stipulations of other standards and regulations, are integrated right from the product development stage. This comprises options in materials of construction, surface finishes as well as recommended cleaning designs including CIP, COP and WIP. In addition, complete mechanical and operational FAT, SAT protocols are all available, depending on the process requirements.

Stefan Gebhardt, General Manager of the Business Unit Food & Pharma, says: "Production in accordance with the most stringent hygiene and safety requirements is one of the major challenges facing the food and pet food industry both today and in the future. Our hygienic components, feeders, conveying systems and extruders provide manufacturers with technological solutions that make it possible to manufacture in accordance with the most demanding standards and regulations. This forms the foundation for the safe and efficient production of food and pet food, and guarantees top product quality."



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Coperion (<u>www.coperion.com</u>) is the international market and technology leader in compounding and extrusion systems, feeding and weighing technology, bulk materials handling systems and services. Coperion designs, develops, manufactures and maintains systems, machines and components for the plastics, chemicals, pharmaceutical, food and minerals industries. Within its four divisions – Compounding & Extrusion, Equipment & Systems, Materials Handling and Service – Coperion has 2,500 employees and nearly 30 sales and service companies worldwide. Coperion K-Tron is a brand of Coperion. For more information visit <u>www.coperion.com</u>.

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The RotorCheck contact monitoring system provides extra safety and convenience when operating rotary valves

Photo: Coperion, Weingarten/Germany



Coperion K-Tron microfeeders were specially designed to provide maximum accuracy at minimal feed rates

Photo: Coperion K-Tron, Niederlenz/Switzerland



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The ZGF centric pelletizer for directly expanded products permits easy and flexible handling whilst ensuring high product quality.

Photo: Coperion, Stuttgart/Germany