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Press Release

**Coperion and Coperion K-Tron at Pack Expo 2015
Latest developments in bulk material handling technology**

Pitman, NJ, USA (August 2015) – At this year's Pack Expo, September 28-30, 2015, Las Vegas Convention Center, Las Vegas, Nevada, West Hall, Booth S-7470, Coperion and Coperion K-Tron present their latest technological developments that are advancing packaging and bulk materials handling to the next level. Representing their comprehensive portfolio in bulk material handling systems, feeding solutions, packaging systems and after sales service for the plastics, food, pharmaceutical and chemicals industry the equipment on display will include an Integrated Bagging & Palletizing Machine IBP500, a Sanitary Filter Receiver, a ZRD Hygienic Rotary Valve, a Smart Weigh Belt Feeder, and a Pharmaceutical Twin Screw Loss-in-Weight Feeder.

Integrated Bagging & Palletizing Machine IBP500 – ideal for free flowing granular products

The FFS Packaging Machine IBP 500 with automated features provides accurate weighing, ideal dosing and hygienic packaging for crystalline, granular, beaded or flaked goods. Ideal for free flowing granular products, this investment-friendly machine saves production space as well as planning and installation costs. It is user-friendly, with easy-to-use operator menus and comprehensive documentation. It accepts multiple bag styles, which will be on display in the booth. Its modular design allows an easy upgrade of machine performance to be made without replacing the complete system. Options such as check weigher, metal detector, bag marking system and automatic cleaning can be integrated into the system. As an added benefit, advanced control functions permit complete integration of the packaging line into a variety of

August 2015

processes, including pneumatic conveying, feeding or extrusion, which can also be provided by Coperion and Coperion K-Tron.

Sanitary Filter Receiver for quick clean-out and elimination of cross-contaminants

The Sanitary Filter Receiver (SFR) provides automatic separation of product material from the convey air for vacuum and pressure conveying sanitary applications in batch and continuous processes. The SFR is specifically designed for stringent food applications requiring quick clean-out and to reduce food contaminants and/or the cross contamination of allergens. The unit is easily cleanable with round corners, no ledges and no hidden areas. The tool-less side entry access door allows for safe and easy cleaning of the unit and simple access to the filter media for fast changeover. The access door and tube sheet are integrated on a single hinge with removable tube filter assemblies. The unique material entry design on the top of the receiver reduces can velocity concerns. The unit also features an integral 70 degree hopper, mounting legs and pressure differential indicator. The SFR is designed to meet FDA, EHEDG, ATEX standards and can easily be adapted for NFPA standards.

The SFR is available in a 914 mm (36 in) and a 1,219 mm (48 in) diameter unit. It is constructed from DIN 1.4301 [AISI 304] stainless steel with highly polished P150 grit Ra 0.8 surface on both the interior and exterior of the unit – commonly used in food processing and dairy equipment. All product contact welds are continuous ground flush and polished to 1.65 Ra (80 grit). The filter tube sheets include filters made from spunbond polyester with an ePTFE membrane which is FDA acceptable. The filters are cleaned by sequential pulses of compressed air from a removable, locally mounted accumulator. Pulsing intervals are adjusted via an DIN 1.4301 (AISI 304) stainless steel IP66 (NEMA 4X) timer panel to ensure optimal cleaning.

Coperion K-Tron designs and manufactures sanitary support stands and service platforms to accommodate the SFR units.

ZRD Hygienic Rotary Valve – USDA approved, easy to clean

Coperion's ZRD sanitary rotary valves have been approved by the United States Department of Agriculture (USDA) following certification in compliance with the USDA Dairy Grading Branch. Already designed in accordance with the engineering and design guidelines of the EHEDG (European Hygienic Engineering & Design Group), these sanitary rotary valves also meet the

August 2015

current, strict requirements governing application in the USA. The valves can be used in the food, pharmaceuticals and chemical industries for applications demanding even the highest degree of hygiene and cleanliness. In addition, they are distinguished by their extreme reliability in operation. As these rotary valves can be readily inspected and also cleaned quickly and thoroughly, they are ideal for applications involving frequent changeovers from one product to another and/or for the processing of products with adhesive tendencies. Parameters such as particle size, cohesion and adhesion influence the flow properties of bulk materials and therefore the correct design and layout of bulk material handling components. The ZRD Hygienic Rotary Valve offers an extra-large inlet for high throughputs and is suitable for pneumatic conveying up to 1.5 bar (g) [21 psi].

The sanitary versions of the ZRD rotary valves are used in pneumatic conveying systems and for the discharge of powdered and granular materials. The certified versions of the ZRD series of rotary valves are equipped with the innovative and service-proven FXS (Full Access System), which enables easy withdrawal of the rotor, as both end plates can be swung out through an angle of more than 90°, making the interior of the rotary valve fully accessible. The withdrawn rotor can then be readily detached from the end plate.

Smart Weight Belt Feeder for high-precision continuous and batch feeding

Coperion K-Tron's Smart Weigh Belt (SWB) feeder offers optional continuous online auto tare by using two Smart Force Transducer III digital weigh modules. Automatic and continuous online taring of the belt reduces costly maintenance, line shutdowns and laborious manual calibration and improves long term accuracy. The SWB feeder can be supplied in two different belt widths: 300 mm and 600 mm. The mass and volume flow rate is strongly dependent on the bulk density, the maximum allowable height of the bulk solid on the belt and the belt speed. By utilizing different control software, the Smart Weigh Belt can be used to feed material into a batch system.

Pharmaceutical Twin Screw Loss-in-Weight Feeder

The KT20 pharmaceutical twin screw feeder is a high-precision loss-in-weight feeder for accurate feeding of free-flowing to poor-flowing materials, such as pigments, sticky or flooding powders. Feed rates range from 0.004 to 7.1 ft³/hr. The modular twin-shaft feeder is mounted

August 2015

on a weigh bridge in sanitary design, suitable where quick and easy cleaning is essential. All parts in contact with the material being fed are stainless steel.

All Coperion K-Tron pharmaceutical feeders are engineered to meet the rigid requirements of the industry. The feeder is designed according to cGMP guidelines, easy to clean, and can be disassembled without tools. Options include a stainless steel cover for the motor and gear box, wall integration to offer further sanitary control as well as Clean in Place (CIP) versions.

Coperion (www.coperion.com) is the international market and technology leader in compounding systems, feeding 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 40 sales and service companies worldwide. Coperion K-Tron (www.coperionktron.com) is a brand of Coperion.



Dear Colleagues,

This [press release in English and German](#)

and the color photos in printable quality are available for download from

<http://www.coperion.com/en/news/newsroom/>

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August 2015



Coperion's intelligent FFS Packaging Machine IBP 500 with automated features provides accurate weighing, ideal dosing and hygienic packaging for crystalline, granular, beaded or flaked goods.

Image: Coperion, Weingarten, Germany



The Sanitary Filter Receiver provides optimal material-from-air-separation in the most stringent food applications requiring quick clean-out and elimination of cross-contaminants.

Image: Coperion K-Tron, Salina, Kansas

August 2015



Coperion rotary and diverter valves for conveying and discharging foodstuffs satisfy very high demands with regard to hygiene and reliability.

Image: Coperion, Weingarten, Germany



Coperion K-Tron's new Smart Weigh Belt (SWB) feeder offers optional continuous online auto tare by using two Smart Force Transducer III digital weigh modules. Automatic and continuous online taring of the belt reduces costly maintenance, line shutdowns and laborious manual calibration and improves long term accuracy.

Image: Coperion K-Tron, Sewell, NJ