

Contact

Kathrin Fleuchaus
Marketing Communications
Coperion GmbH
Theodorstrasse 10
70469 Stuttgart, Germany

Phone +49 (0)711 897 25 07
Fax +49 (0)711 897 39 74
kathrin.fleuchaus@coperion.com
www.coperion.com

Press release**Markedly improved product and production safety****Twin screw extruder ZSK Mv PLUS in a new hygienic design**

Stuttgart, July 2016 – In order to fulfill food manufacturers' increasingly stringent health and safety stipulations, Coperion GmbH, Stuttgart, Germany has completely revised its ZSK Mv PLUS twin screw extruder and given it an innovative machine design. It meets the highest standards of hygiene and represents an improvement in both product safety and production safety.

The core feature of this redesign is the twin screw extruder's new open base frame. It is made of stainless steel, has only smooth surfaces and offers users numerous advantages: Its excellent accessibility markedly reduces the effort needed for cleaning the system. Product safety and production safety are both improved. The downtime required for cleaning the machine is reduced to a minimum. By using stainless steel Coperion is choosing a construction material that fulfills all European and global directives and guidelines.

The centric pelletizer ZGF is also made of stainless steel. This includes both the pelletizer unit itself and the drive. Therefore, there is no need of the cooling fins of a conventional air-cooled motor, which significantly reduces the cleaning effort.

Plant operators will also benefit from the new CSPro control system of the ZSK Mv PLUS. It is based on the latest Siemens PLC S7-1500 components and, thanks to the integrated OPC UA

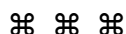
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interface and web interface, provides for direct access to all the plant's relevant data. The control system also complies with all Industry 4.0 standards.

Coperion's ZSK twin screw extruder is the result of more than 100 years' experience with extrusion processes and over 50 years' expertise acquired from dealing with food applications. It offers convincingly high operational reliability and highly durable components. A wide range of food companies around the world – from cereal producers to manufacturers of textured meat analogues – already deploy the ZSK Mv PLUS successfully.

The performance data of the twin screw extruder ZSK Mv PLUS is based on a D_o/D_i value of 1.8 (outer to inner screw diameter). Its specific torque is 11.3 Nm/cm^3 and the maximum screw speed is 1,800 rpm.

Coperion (www.coperion.com) is the world market and technology leader for compounding systems, feed systems, bulk goods systems and services. Coperion develops, produces, and services plants, machines, and components for the plastic, chemical, pharmaceutical, food, and minerals industries. Coperion employs 2500 people worldwide in its four divisions Compounding & Extrusion, Equipment & Systems, Materials Handling, and Service and almost 40 sales and service companies.



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Editor contact and copies:

Dr. Georg Krassowski, KONSENS Public Relations GmbH & Co. KG,
Hans-Kudlich-Straße 25, D-64823 Groß-Umstadt
Tel.: +49 (0)60 78/93 63-0, Fax: +49 (0)60 78/93 63-20
E-mail: mail@konsens.de, Internet: www.konsens.de



The design of Coperion's ZSK Mv PLUS twin screw extruder has been completely reworked and now fulfills the highest hygiene and safety requirements.

Image: Coperion, Stuttgart