

THE **BAT**TERY SHOW

EUROPE 2018

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

Coperion at the Battery Show Europe

Continuous extrusion of battery materials to a high, reproducible quality standard

Stuttgart, March 2018 – At the Battery Show Europe 2018, taking place in Hanover, Germany, from May 15 to 17, Coperion will be exhibiting application solutions for its highly productive ZSK twin screw extruders for the continuous production of cathode and anode masses, as well as separator film, at Booth 212. Raw materials such as active materials, binding agents, conductive carbon blacks and fluids are fed either separately or in the form of premixes into the process section of the extruders using highly accurate Coperion K-Tron feeding systems. Conveying, mixing, shearing and the homogenization essential for obtaining products of a consistently high and reproducible quality standard take place in processing zones that are optimally designed for the processes concerned.

Due to the often abrasive and sometimes toxic properties of the raw materials being processed, the parts of Coperion systems that come into contact with the product are made of materials offering particularly high resistance to wear. This makes it possible to avoid contamination of the end product from detached metal particles over the long term, even when processing ultra-hard silicon carbides. Dust-proof versions of the feed and refill systems for the raw materials are also available if required. In all these respects, Coperion draws on many years of experience as a supplier of extrusion systems for pharmaceutical applications. On top of that, ZSK plants for making battery masses are designed to conform to the stringent explosion-protection regulations.

Universal high-performance system

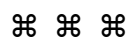
With all the benefits of a development history spanning more than 60 years, today's ZSK twin screw extruder from Coperion is an universally applicable high-performance system for the processing of raw material mixtures, achieving throughput rates of between 200 g/h and 125 t/h with screw diameters of 18 mm to 420 mm. The modular process section of the extruder is

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made up of a series of barrels containing the co-rotating screws. This design principle ensures maximum adaptability of the system to suit the task concerned. The extruder, the feed system and the discharge technology from Coperion form a complete unit along with the associated process engineering support, both for start-up of the systems and during operation.

According to Oliver Beiser, Business Segment Manager Chemical Applications at Coperion, "Our ZSK twin screw extruder, combined with our Coperion K-Tron feeding system, is a reliable processing system with a proven record of success on the market. The highly flexible design means that it can be ideally configured for the various process tasks involved in the production of battery materials. Its reliability, long service life and wide range of properties guaranteeing top product quality all add up to a perfect technology for this future-oriented market."

Coperion (www.coperion.com) is the global 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 plastics, chemical, pharmaceutical, food and minerals industries. Coperion employs 2,500 people worldwide in its four divisions Compounding & Extrusion, Equipment & Systems, Materials Handling and Service, as well as in 30 sales and service companies.

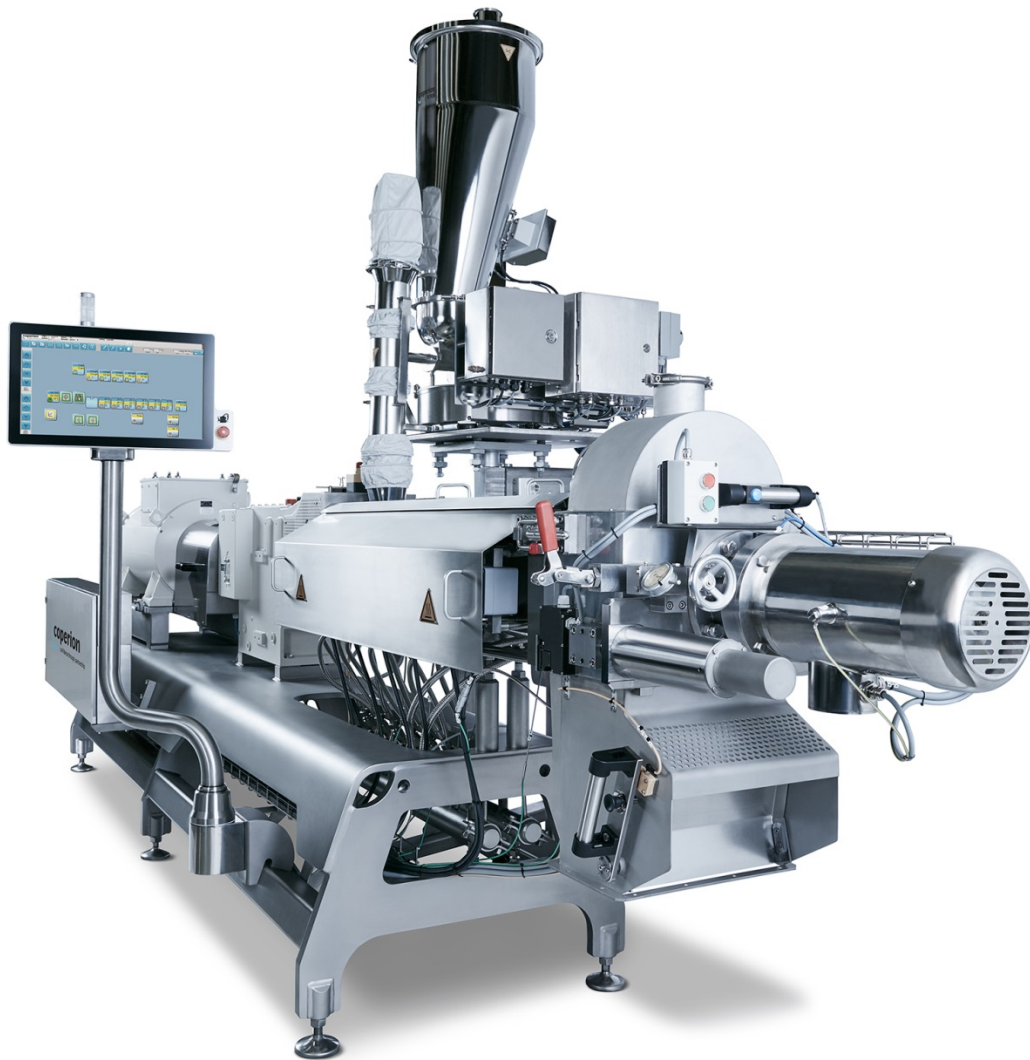


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Editor contact and copies:

Dr. Jörg Wolters, 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

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The modular ZSK twin screw extruder from Coperion is suitable for the production of a wide range of different battery materials.

Photo: Coperion, Stuttgart

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If required, Coperion K-Tron can provide dust-proof versions of the systems used for the infeed of raw materials into the ZSK extruder.

Photo: Coperion, Stuttgart