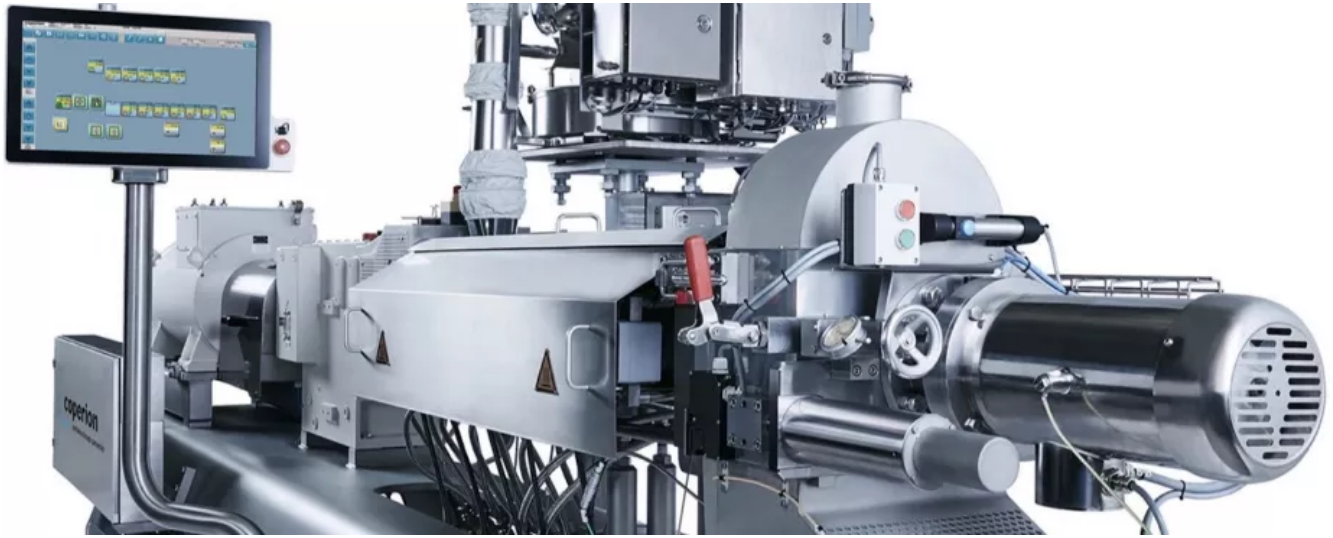


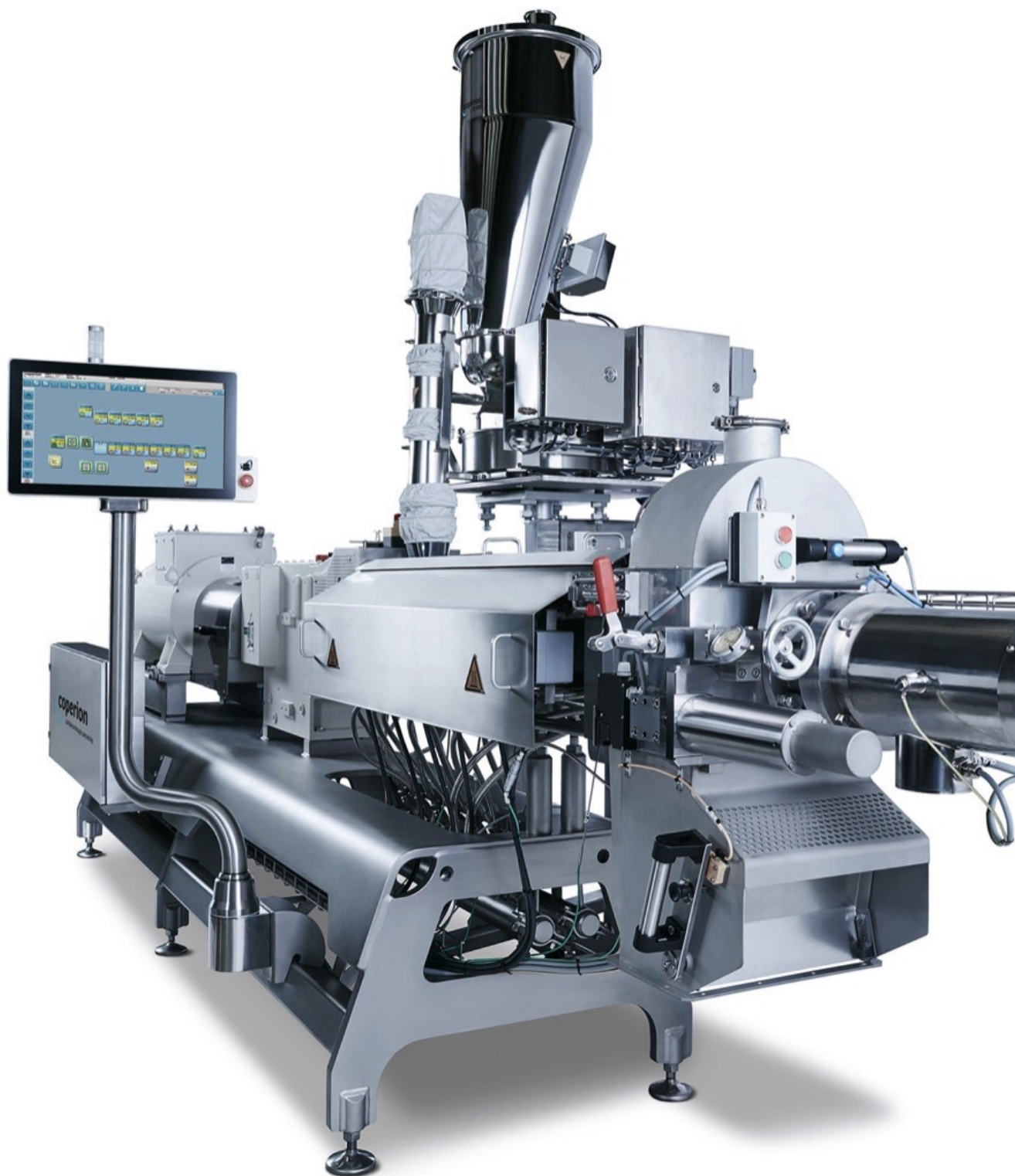


Company News

Coperion presents Continuous Extrusion of Battery Materials at Battery Show Europe

Edited by on 13. Mar. 2018

Niederlenz, Switzerland –



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

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.



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)

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 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."

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[**Google Search - Images**](#)[**Coperion Corporation on the Portal**](#) See also: