

Contact

Julia Conrad
Marketing Communications
Coperion GmbH
Theodorstraße 10
70469 Stuttgart/Germany

Telephone +49 (0)811 897 22 27
Fax +49 (0) 711 897 39 74
Julia.conrad@coperion.com
www.coperion.com

Press Release

Coperion at the Battery Show Europe:

Reliable Technology and System Solutions for Efficient Battery Manufacturing

Stuttgart, May 2024 – At this year's Battery Show Europe (June 18-20, 2024, Stuttgart, Germany) Coperion will be presenting innovative and reliable technologies, as well as system solutions for efficient manufacturing of high-quality batteries, in Hall 10 at Booth H94. As experts in the development of high-accuracy feeding and conveying solutions, as well as twin screw extruders for optimized continuous electrode compound manufacturing processes, Coperion and Coperion K-Tron offer not only first-class technological solutions but also systems that can significantly optimize battery production, all from a single source. Years of experience and comprehensive expertise in the planning and realization of a variety of solutions and systems makes Coperion the ideal partner for manufacturers all along the battery value chain.

Reliable continuous system solutions for electrode masses production offer process optimization with fewer interfaces

For electrode compound manufacturing, Coperion realizes entire installations from a single source — from raw material handling and conveying to feeding and extrusion and on to downstream slurry handling. By utilizing a continuous extrusion process, manufacturers profit above all from markedly reduced complexity and fewer interfaces, as well as a cost-efficient system. With comprehensive process expertise and over 60 years of experience in the field of manufacturing line planning, development and realization, Coperion delivers tailor-made, containment-secure and individual system solutions for battery mass manufacturing.

May 2024

Coperion's ZSK high-performance twin screw extruder, in combination with Coperion K-Tron high-accuracy feeders and optimized conveying solutions, forms the core of systems designed to optimize the continuous production of electrode compounds. The system offers high process stability resulting in exceptional and consistently high-quality end products. Moreover, its high reliability and extended lifespan set it apart. Utilizing continuous production allows for greater material efficiency as well as more cost-efficient and climate-friendly battery cell production in comparison to conventional batch processes.

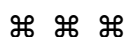
High-accuracy feeding technology and optimized conveying solutions

One vital aspect of battery compound manufacturing is the safe introduction of raw materials into the process. A variety of feeder technologies are available, depending upon the raw material and process step. With a wide variety of feeding solutions, Coperion K-Tron has the right feeder for every application. Coperion K-Tron feeders can be used in the active material sector for continuous feeding in electrode compound manufacturing as well as for black mass recycling.

Coperion K-Tron feeders are distinguished by their high accuracy and reliability. The synergy of mechanical design, cutting-edge weighing technology, and advanced control is critical for achieving high feeding performance accuracy. Coperion K-Tron's "Smart Force Transducer" technology achieves high-accuracy weighing with a resolution of 1:8,000,000 in 20 ms. Precise control and data on the bulk materials allow manufacturers to profit not just from strict adherence to the set formulation, but also from reduced maintenance and downtime. The outcome is a more stable process with decreased costs.

About Coperion

Coperion (www.coperion.com) is a global industrial and technological company in the areas of compounding and extrusion machinery, sorting, shredding and washing equipment, feeding systems, bulk material handling and services. Coperion develops, produces, and services plants, machinery, and components for the plastics and plastics recycling industry as well as for the chemical, food, pharmaceutical, and minerals industries. Coperion employs over 5,000 people worldwide in its three business areas: Polymer, Food Health & Nutrition, and Aftermarket Sales and Service, as well as in its 50 sales and service companies. Coperion is a subsidiary company of Hillenbrand (NYSE: HI), a global industrial corporation offering highly developed processing machinery and solutions that are relevant to processes for customers in a variety of industries around the world. www.hillenbrand.com

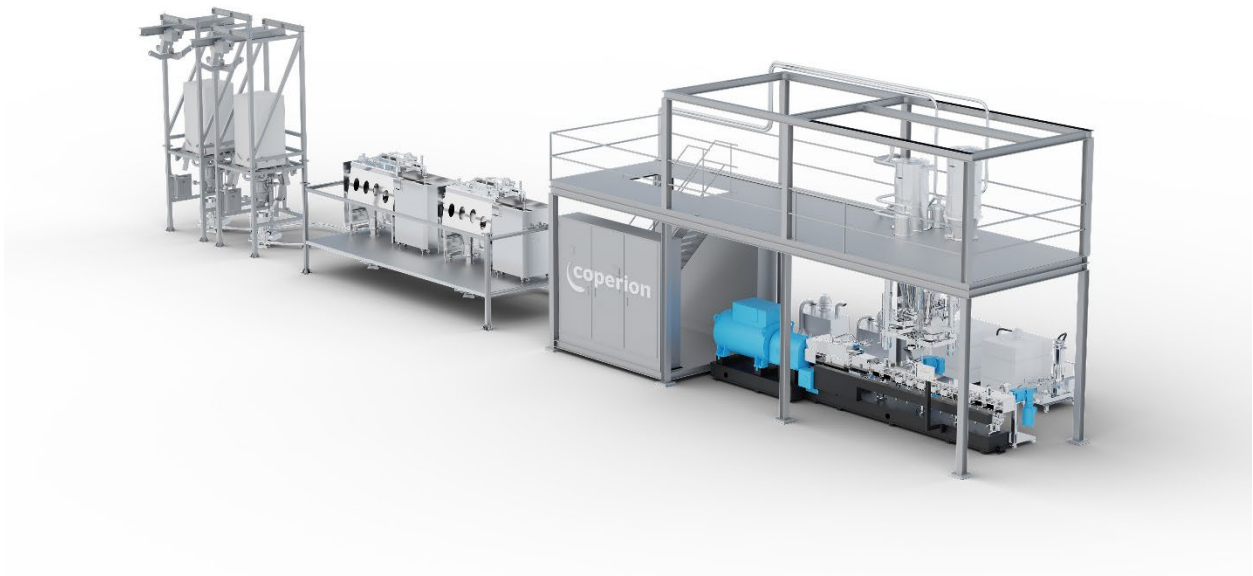


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Dear Colleagues,
You can find and download this press release in German and English and print-ready color images at
<https://www.coperion.com/en/news-media/newsroom/>

Editorial contact and copies:

Dr. Jörg Wolters, KONSENS Public Relations GmbH & Co. KG,
Hans-Böckler-Str. 20, D - 63811 Stockstadt am Main, GERMANY
Tel.: +49 (0)60 27/ 99 00 5-0
E-Mail: mail@konsens.de, Internet: www.konsens.de



Coperion's comprehensive portfolio of innovative and reliable technologies and complete solutions position the company to support battery manufacturers in cost-effective and sustainable battery production.

Photo: Coperion, Stuttgart Germany