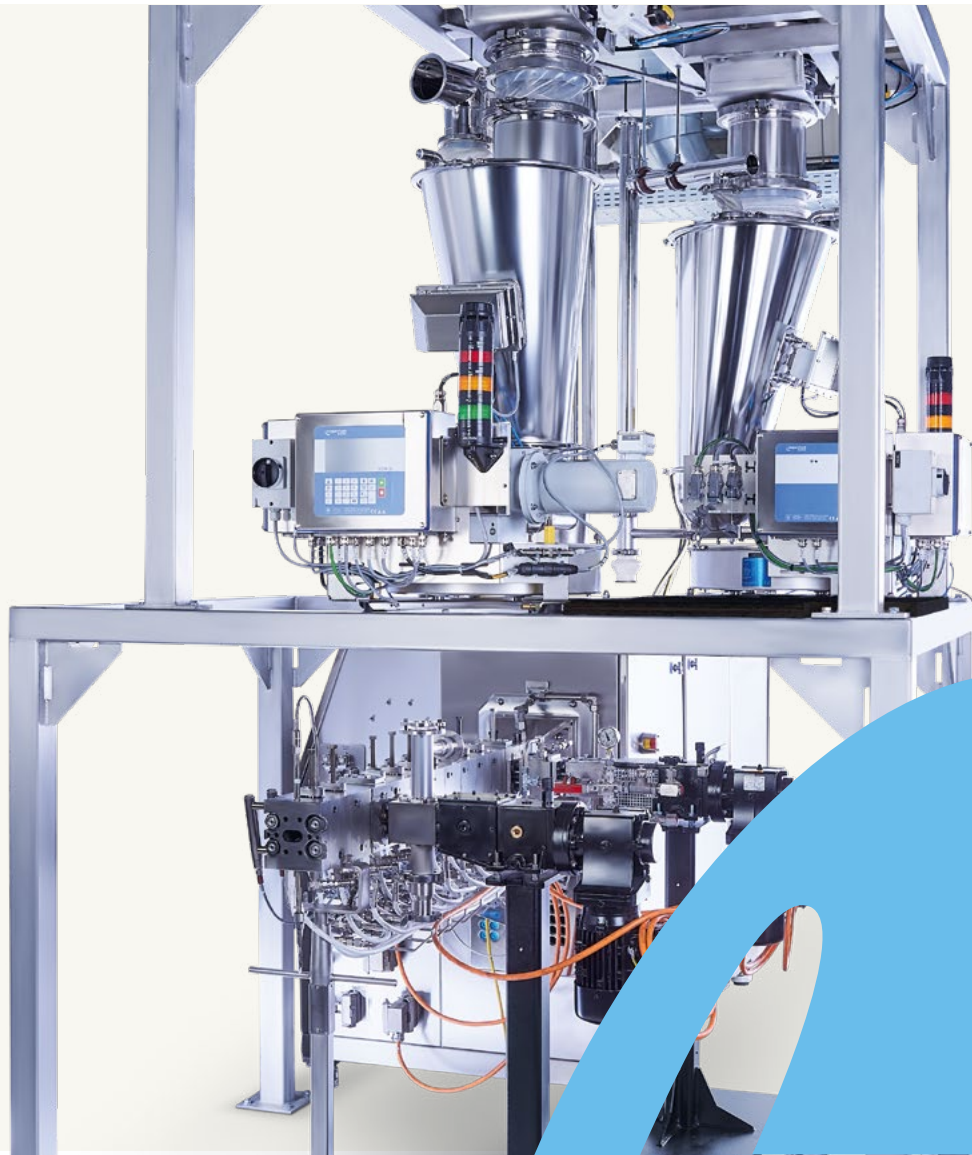




ZSK laboratory and small-size extruders for battery manufacturing. Advanced technology for research and development.

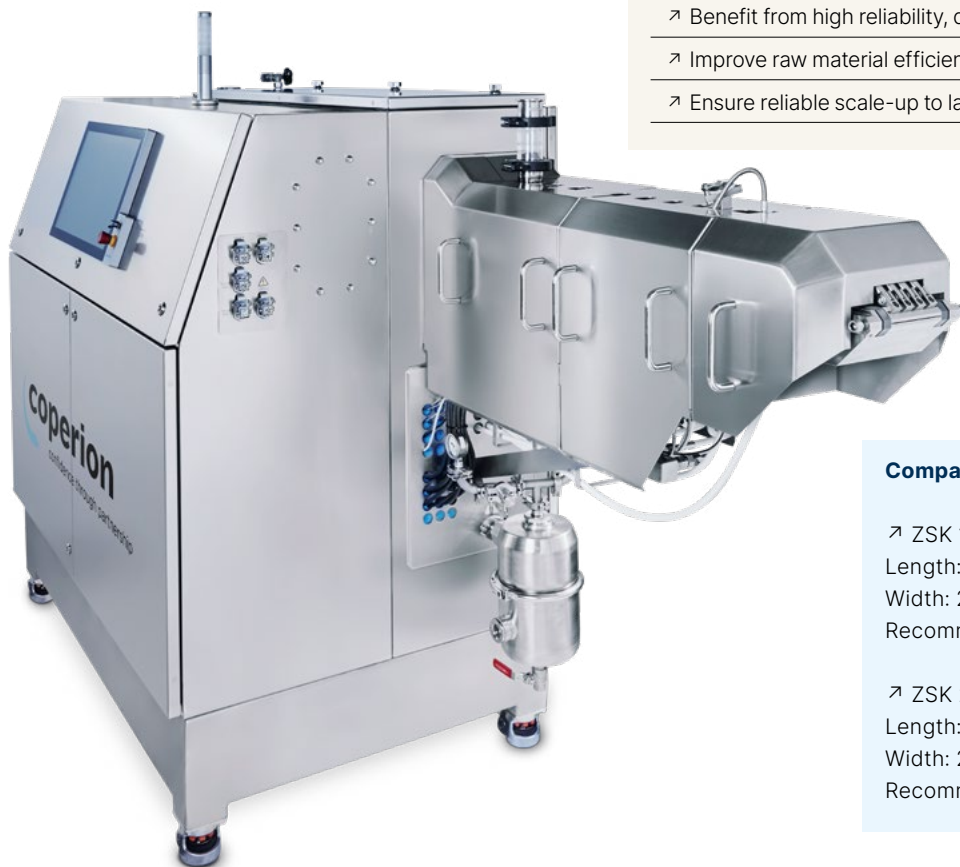


Coperion offers a full range of twin screw extruders for the continuous production of battery masses. The ZSK 18 MEGAlab and ZSK 26 Mc¹⁸ small-size extruders can be used for a variety of tasks, particularly in research and development.

These powerful lab extruders offer high performance for research, recipe development, formulation testing, and production of samples or small lots.

Using twin screw extruders as an essential component in the continuous production of electrode masses, whether in a wet or dry process, provides battery manufacturers with a highly efficient production method. The ZSK Mc¹⁸ twin screw extruder with its superior mixing capabilities, offers an ideal solution for high reliability, profitability and maintaining top quality standards in battery mass production. All ZSK extruders feature a modular process section allowing for flexible and individual modifications to recipes and process requirements. The laboratory and small-series extruders, ZSK 18 MEGAlab and ZSK 26 Mc¹⁸, are based on proven ZSK technology, ensuring reliable scale-up from laboratory to production levels.

→ Coperion ZSK 18 MEGAlab extruder



Benefits at a glance

- Ensure short and efficient trials thanks to the small extruder size and the ability to quickly change feeding points and screw elements
- Achieve high flexibility with a modular process section, enabling rapid system modifications
- Benefit from high reliability, durability, and extended service life
- Improve raw material efficiency through self-cleaning screw elements
- Ensure reliable scale-up to larger ZSK extruders

Compact sizes | Typical footprints

- ZSK 18 MEGAlab
Length: 4 m [13.1 ft]
Width: 2 m [6.5 ft]
Recommended clearance height: 3.5 m [11.5 ft]
- ZSK 26 Mc¹⁸
Length: 4 m [13.1 ft]
Width: 2.5 m [8.2 ft]
Recommended clearance height: 3.5 m [11.5 ft]

Complete systems from Coperion

The Coperion complete lab system includes a lab extruder, highly accurate Coperion K-Tron feeders for powders and liquids, and a reliable refill solution. Its integrated design is compact, with a small footprint that minimizes space requirements.

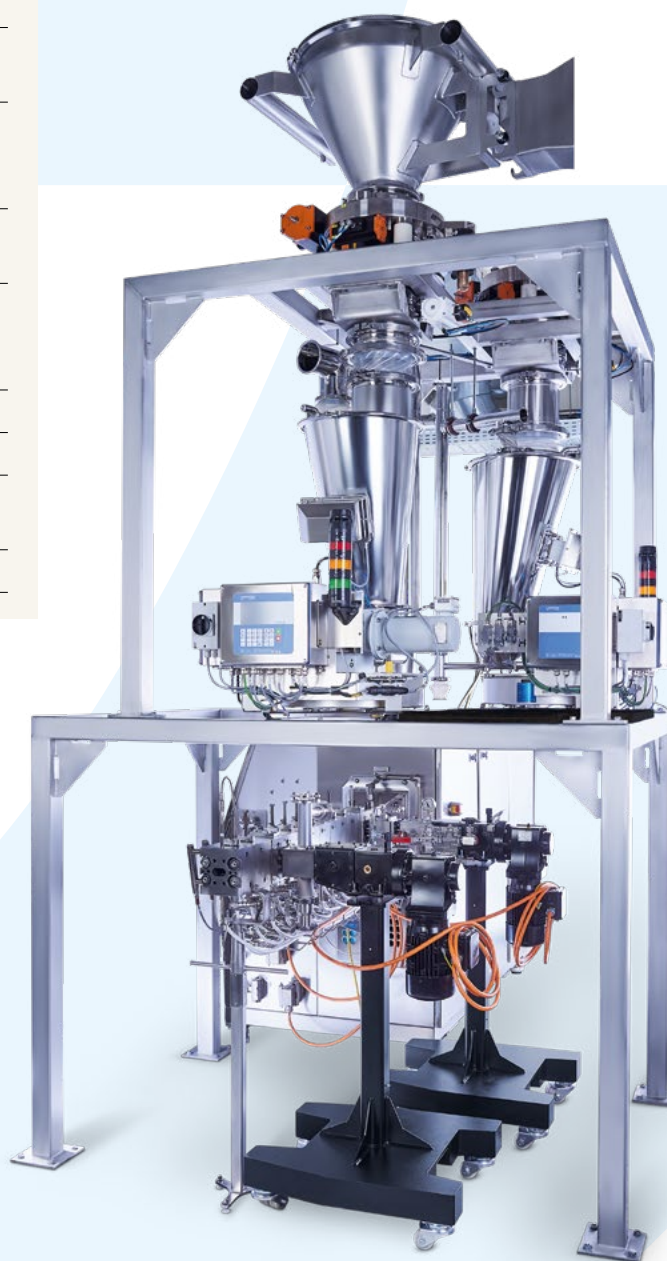


Special features

- Hygienic extruder and twin screw feeder design for easy cleaning
- Wear and corrosion resistant materials used for extruder barrels and screw elements
- Throughput rates from 1 l/h up to 20 l/h (ZSK 18 MEGAlab) and up to 125 l/h (ZSK 26 Mc¹⁸)
- Depending on the throughput, recipe and bulk materials, Coperion offers individual feeder design and screw geometry to meet the system requirements
- Suitable for both wet and dry processes due to system flexibility
- Up to 90% solid content possible in slurry applications due to high flexibility of the liquid feeding positions and screw elements
- Fast commissioning
- Reliable, low noise drive concept with water-cooled motor
- Modular extruder design with exchangeable barrels and a wide range of screw elements
- Control system based on Siemens S7-1500 and WinCC HMI

Containment solutions

- Coperion offers a variety of options for your specific containment needs, up to OEB level 4.



→ Coperion ZSK 26 Mc¹⁸ Lab Extruder with Coperion K-Tron loss-in-weight-feeders

Headquarters

Coperion GmbH | Theodorstrasse 10 | 70469 Stuttgart, Germany | info@coperion.com
coperion.com | fhn.coperion.com

Find your nearest
Coperion location

