



ZSK laboratory extruders for battery masses. Proven technology for research and development.

➤ Coperion offers first-class, reliable technology for the continuous extrusion of battery materials. The continuous approach has the potential to significantly optimize the manufacturing process in terms of material- and cost-efficiency. In addition, it facilitates a more climate-friendly battery cell production.

Coperion offers a full range of twin screw extruders for the production of battery masses: from laboratory systems and small production lines, up to medium and large production systems for Giga Factories. The Coperion ZSK18 MEGAlab and

ZSK26 Mc¹⁸ small-size extruders can be used for a variety of tasks. These powerful lab extruders offer high performance for research and recipe development, formulation testing as well as for sample production and even small serial production.

Benefits at a glance

- › Ensure short and quick trials
- › High flexibility: System modifications can be done within a few minutes
- › High reliability, durability and service lifetime
- › Raw material efficiency due to self-cleaning of screw elements
- › Reduced cleaning and downtime due to the self-cleaning of screw elements
- › Reliable scale-up to larger ZSK extruders



Compact sizes

Typical footprints in meters and [feet]

ZSK 18 MEGAlab

Length: 3.7 m [12.1 ft]

Width: 1.5 m [4.9 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]

› COPERION ZSK 18 MEGAlab EXTRUDER

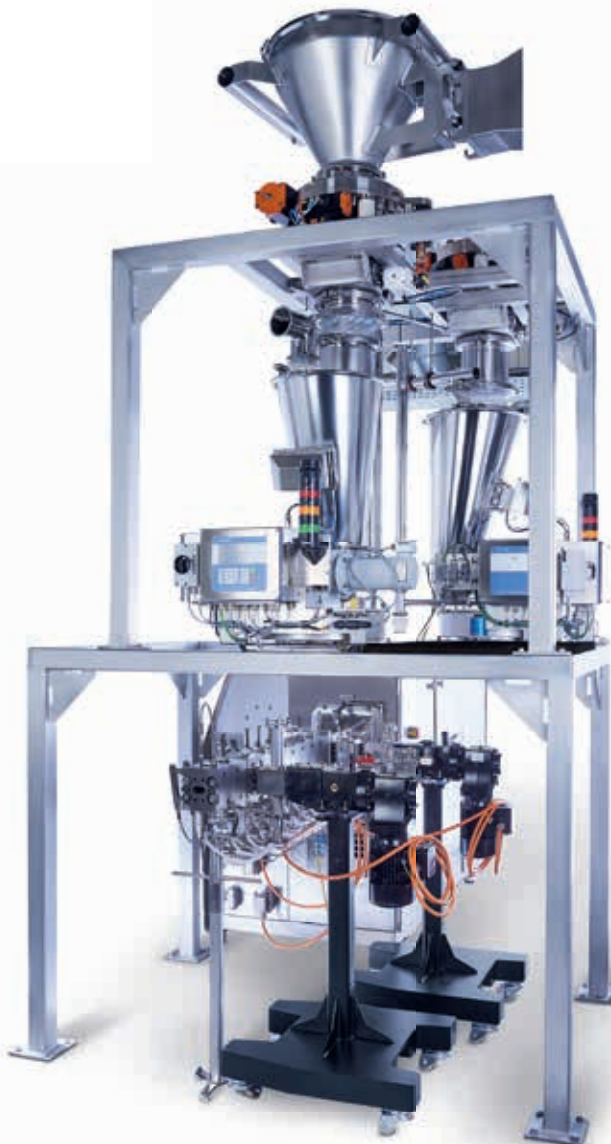
Coperion complete systems

The Coperion complete lab system includes a lab extruder, highly accurate Coperion K-Tron feeders for powders and liquids, and a solution for the refill, all in a compact design.

Due to the small footprint of the integrated lab system, it can be installed with minimal space.

Special features

- › Hygienic design of extruders allows for easy cleaning
- › Containment proof extruder design
- › Wear resistant material used for barrels and screw elements
- › Throughput rates of up to 20 l/h (ZSK 18 MEGALab) and 60 l/h (ZSK 26 Mc¹⁸)
- › Small batches from 500 g
- › Fast commissioning
- › Reliable, low noise drive concept with water cooled motor
- › Modular structure of extruder with exchangeable barrels and a wide range of screw elements
- › Control system based on Siemens S7-1500 and WinCC HMI



› COPERION ZSK 26 Mc¹⁸ LAB EXTRUDER



CONTAINMENT SOLUTIONS

Coperion offers a variety of options for your specific containment needs.

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