
ENERGY DENSITY IN FOCUS. MODERN TECHNOLOGY FOR HIGH-PERFORMANCE BATTERY MASSES.

A key technology to realize the energy turnaround is the low-cost, high-performance energy storage. Currently, the most promising storage technology is the lithium-ion battery technology.

AVA provides a broad range of modern and flexible technologies for producing electrode pastes, drying single components, or even processing high-temperature applications to obtain the required dryness or chemical reactions.



AVA
DRYNAMIX

CUSTOMIZING
TURBULENT
ACTION

A BHS Company

AVA HIGH-TEMPERATURE REACTORS. COST-EFFECTIVE PRODUCTION OF MATERIALS WITH HIGH ENERGY DENSITY.

AVA has developed a high-temperature reactor, which opens up new possibilities for the production of battery materials.

High temperature is a critical factor in the processing of high performance anode and cathode materials. In addition the dynamic AVA drying principle ensures high product and temperature homogeneity. An ideal basis for reaching a higher energy density.

High temperature, high homogeneity

AVA has consistently adapted its high-temperature technology to the requirements of battery mass production. Even processes in the uppermost temperature range can be carried out with uniform heat distribution. This means a significant increase in product homogeneity in the AVA high-temperature mixer compared to conventional technologies.

Economic operation

In high-temperature applications, energy efficiency plays a crucial role. The AVA battery reactors contribute to a profitable production process with economical heating technologies and advanced insulation.

Application

AVA technology is used in various processes of battery production:

Anode material:

- High temperature conditioning of nanotubes
- Combining the bitumen coating and pyrolysis process

Cathode material:

- High temperature treatment of ternary material

Low temperature applications:

- Vacuum drying of Li_2CO_3 or LiOH
- Drying of precursor
- Mixing of precursor with lithium source

Contact us now!

Your contact

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AVA process technology for the production of battery materials

Your benefits
at a glance.

- Superior quality of reacting, drying and mixing with constant reproducibility
- Tailor-made machine design for single or multiple products
- High reliability and low downtime

Perfect performance:

high temperature
- up to 650° C
and robust machine design.