

The power is in the mix: Accelerating Battery Research with Hauschild SpeedMixer®

Efficient and repeatable slurry formulation, material deagglomeration and rapid prototyping with Hauschild SpeedMixer®.

FARMINGTON HILLS, MICHIGAN, VEREINIGTE STAATEN, August 17, 2023 /EINPresswire.com/ -- Battery manufacturing is a complex process that requires precise formulation and thorough mixing of materials. The importance of these steps cannot be overstated, as they directly impact the quality and performance of the final product. Hauschild SpeedMixer® has emerged as a game-changer in the industry, revolutionizing the way battery slurries are prepared.



Efficient and repeatable slurry formulation, material deagglomeration and rapid prototyping with Hauschild SpeedMixer®.

During last year's "The Battery Show", numerous discussions with customers highlighted the significance of slurry formulation and material deagglomeration in battery processing. Davide Davi, CEO Americas of Hauschild SpeedMixer Inc., emphasizes, "The formulation of slurry and deagglomeration of materials are essential to battery processing."

In battery manufacturing, the process of electrode coating begins with mixing, making proper mixing crucial for all subsequent steps. Hauschild SpeedMixer® offers a reliable and efficient solution for slurry preparation throughout the entire battery cell production process. Whether it is mixing the anode material, cathode material, or even the coating of the separator foil, the Hauschild SpeedMixer® ensures fast, reproducible, and high-quality results.

Integration in robotic systems and mixing under vacuum possible

The anode material, which typically consists of carbon/graphite, carboxymethylcellulose (CMC)

as a binder/film former, conductivities, additives and deionized water, must be mixed homogeneously and free of bubbles. This can even be done under vacuum or in a robotic system. The Hauschild SpeedMixer SMART DAC, which works with centrifugal force, can communicate with other devices through its smart functions (IoT) and works so precisely that even the removal of the disposable cup can be done easily with a robotic arm.

Similarly, for the cathode material, which comprises Lithium compounds, Polyvinylidene Fluoride (PVDF) as binder/film former, conductives, additives, and N-Methyl-2-Pyrrolidone (NMP) as solvent, the Hauschild SpeedMixer® delivers exceptional performance. In some cases, the device can also be utilized for mixing the coating of the separator foil, typically made of PVDF.

Davi says: “Battery slurries are notoriously challenging to mix, but with Hauschild SpeedMixer®, researchers and manufacturers can achieve fast, reproducible, and high-quality results. By utilizing our cutting-edge technology, the entire R&D and manufacturing process can be significantly enhanced.”

Hauschild Engineering invites industry professionals to experience the Hauschild SpeedMixer® SMART DAC series firsthand at the upcoming Battery Show. Attendees will have the opportunity to witness the unparalleled performance and versatility of these innovative mixers. To learn more about the SMART DAC series and other Hauschild products, please visit www.hauschild-speedmixer.com.

“

Battery slurries are challenging to mix, but with Hauschild SpeedMixer®, researchers and manufacturers can achieve fast, reproducible, and high-quality results.”

Davide Davi, CEO Americas of Hauschild SpeedMixer Inc.

More at www.hauschild-speedmixer.com

Hauschild YouTube channel:

<https://www.youtube.com/channel/UCs9jdLhro1rPgRZ3Lr-Nu1A/videos>



Hauschild SpeedMixer® mixes homogeneous slurry in a few minutes

[Photos-Download-Link:](#)

https://drive.google.com/drive/folders/1MzLfcd44wJI9hQksm3MxjhSfZI9QRJAm?usp=drive_link

Mareike Boccola
Hauschild Engineering
+1 877-773-6937
[email us here](#)
Visit us on social media:
[Facebook](#)
[LinkedIn](#)
[Instagram](#)
[YouTube](#)
[Other](#)



Hauschild SpeedMixer® in a robotic system

This press release can be viewed online at: <https://www.einpresswire.com/article/650454135>

EIN Presswire's priority is source transparency. We do not allow opaque clients, and our editors try to be careful about weeding out false and misleading content. As a user, if you see something we have missed, please do bring it to our attention. Your help is welcome. EIN Presswire, Everyone's Internet News Presswire™, tries to define some of the boundaries that are reasonable in today's world. Please see our Editorial Guidelines for more information.

© 1995-2024 Newsmatics Inc. All Right Reserved.