

Press release

Production of battery modules and battery packs being realized with MOM system

Battery production in the greenfield: Rimac Technology relies on iTAC.MOM.Suite

Montabaur, January 23, 2025 – Rimac Technology, manufacturer of battery modules and battery packs, is currently expanding its production capacities for a major customer project. Additional production lines are being set up in Greenfield for this purpose. The iTAC.MOM.Suite plays a central role in this: The Manufacturing Operations Management (MOM) system from iTAC Software AG ensures that the production of battery modules and battery packs runs efficiently and transparently and meets the highest quality requirements and industry standards.

Batteries consist of various chemical components and layers that are processed in a multi-stage process – from the manufacture of the electrodes to cell assembly and final assembly. Each stage requires precise production conditions, as even the smallest deviations can affect the performance, safety and longevity of the batteries. For this reason, seamless quality control and traceability must be guaranteed. Errors can lead to serious safety risks.

“Modern battery production is complex. It requires high-precision processes and at the same time a high production speed in order to meet demand. At the same time, it is subject to strict industry-specific quality requirements. For our customer project, for which we are currently setting up the production lines, an

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MES/MOM is indispensable. A 4-month selection process convinced us that the iTAC.MOM.Suite meets all the technological requirements that are crucial for the production of battery modules and battery packs,” explains Martina Raguž, IT Project Manager at Rimac.

The iTAC.MOM.Suite production management system from iTAC enables the mapping, control and planning of the entire production process and ensures active traceability. "In the challenging production of battery cells, materials are used that are difficult to process and sometimes highly dangerous. To minimize risks and avoid errors, seamless traceability and comprehensive quality analyses are essential. This enables quality and performance characteristics as well as all standards and specific requirements to be met,” says Diogo Oliveira, Sales Manager MOM EMEA at iTAC Software AG.

Greenfield development – designed from scratch

One special feature: the shop floor at Rimac is a greenfield site, which means that everything can be “redesigned”. This offers the possibility of creating the entire production infrastructure from scratch in a new production environment. As no existing systems have to be integrated and no compromises have to be made with the IT architecture, the MES/MOM system can be perfectly tailored to the specific requirements of modern battery production at Rimac right from the start.

The go-live of the system for the battery pack production line is scheduled for the end of April 2025 and for the module production line for the end of July 2025.

And Rimac is also well positioned for the future “In addition to the functionalities of the iTAC software that are decisive for us, the architecture is an important feature for us. Thanks to the open, scalable platform and microservices, we are also equipped for possible expansions,” emphasizes Martina Raguž.

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The Rimac and iTAC teams responsible for the greenfield project for battery

Image source: Rimac

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About iTAC

iTAC Software AG, an independent company of the mechanical and plant engineering firm Dürr, provides internet-enabled information and communication technologies for the manufacturing industry. Founded in 1998, the company is one of the leading MES/MOM providers. The iTAC.MOM.Suite is a holistic Manufacturing Operations Management that is used worldwide by companies in different industry sectors such as automotive, electronics/EMS, telecommunication, medical engineering, metal casting and energy. Additional services and solutions for implementing IIoT and Industry 4.0 requirements complete the portfolio. iTAC Software AG is headquartered in Montabaur, Germany and has offices in the USA, Mexico, China and Japan and has a worldwide partner network for sales and service. iTAC's philosophy is to connect people, data and systems.

The Dürr Group is one of the world's leading mechanical and plant engineering firms with particular expertise in the technology fields of automation, digitalization, and energy efficiency. Its products, systems, and services enable highly efficient and sustainable manufacturing processes – mainly in the automotive industry and for producers of furniture and timber houses, but also in sectors such as the chemical and pharmaceutical industries, medical devices, electrical engineering, and battery production. In 2023, the company generated sales of €4.6 billion. The Dürr Group has around 20,000 employees and 142 business locations in 32 countries, and it operates in the market with five divisions.

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