

Press release

Holistic production management system for individual, series and mass production

MOM from iTAC for adaptability in production

Montabaur, June 5, 2023 – Software is the engine for modern, digital production processes. In order to master the challenges of the future, isolated solutions and technical barriers must be eliminated. What is needed are end-to-end processes through holistic manufacturing management systems such as the iTAC.MOM.Suite from iTAC Software AG (www.itacsoftware.com). This modular solution makes value chains in different production types and industries transparent, plannable and controllable in real time. And it covers everything from single-item to series and mass production – even in high-mix low-volume manufacturing. The microservice architecture enables flexible and scalable use of individual functionalities. iTAC's MES/MOM is therefore designed to meet the requirements of both traditional industrial sectors and rapidly growing industries such as battery production.

This year, the MES/MOM specialist iTAC Software AG has been positioned as a "Leader" in the Gartner Magic Quadrant for Manufacturing Execution Systems.* iTAC's Manufacturing Execution System, which has been established in the market for many years, was further developed in 2021 to become the Manufacturing Operations Management System iTAC.MOM.Suite and enables the planning, control and monitoring of production processes in real time.

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This includes, for example, the handling of production orders, the management of materials and resources, the monitoring of machines and systems, and the performance of quality checks and tests. In addition, through the integration of analytics tools, the MES/MOM collects data in real time and supports predictive planning. "Through the analyses, deviations or problems can be quickly identified and resolved. The iTAC.MOM.Suite offers intelligent collection and evaluation of data to also control regulatory processes and enable predictive quality assurance," explains Martin Heinz, board member of iTAC Software AG.

The MES/MOM easily adapts to necessary changes in production or the respective requirements of the manufacturing company. The microservice architecture makes it possible to add functions or modules as needed. The iTAC.MOM.Suite is therefore used in manufacturing companies in various industries such as mechanical engineering, automotive, electronics, medical technology, injection molding, metal processing and battery production.

Real time monitoring and control

The MES/MOM also supports, for example, just-in-sequence production and one-piece flow production. For just-in-sequence production, precise coordination and timing of the individual production steps is crucial to success. The MOM/MES enables real time planning, control and monitoring of production processes so that, for example, the individual work processes can be executed in the correct sequence to ensure continuous production.

In one-piece flow manufacturing, the production flow must be designed in such a way that each item or unit passes through the manufacturing process without delays. The MOM/MES continuously records and monitors production progress by collecting real time information on the status of each item or unit. It ensures that production flow is smooth and that no delays occur. The system can identify shortages, coordinate the flow of materials, and optimize the sequence of processing steps.

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Simplicity and expansion through openness and low-code

"In modern single piece production as well as in series and mass production, highly demanding digital processes have to be mapped and implemented at the same time. Thanks to its openness, the iTAC.MOM.Suite can be seamlessly integrated into the digital platform strategies of our customers. We place great emphasis on simplicity, usability and end-to-end process integration for our users and have therefore integrated low-code tools. This simplifies customizations and customer-specific extensions, for example, and increases agility," says Martin Heinz.

*The full Gartner report is available here:

<https://www.itacsoftware.com/en/company/2023-gartner-magic-quadrant>



MOM from iTAC ensures adaptability on the shop floor

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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 extensive expertise in automation, digitalization and energy efficiency. Its products, systems and services enable highly efficient and sustainable manufacturing processes in different industries. The Dürr Group primarily supplies the automotive industry, producers of furniture and timber houses as well as the chemical, pharmaceutical, medical devices and electrical engineering sectors. It generated sales of €4.3 billion in 2022. The company has about 18,700 employees and 123 business locations in 32 countries.

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