

Press release

iTAC's MES/MOM solution is a best practice reference for the mechanical engineering industry

Dürr Group implements "OneMES strategy" with iTAC

Bietigheim-Bissingen/Montabaur, November 22, 2023 – In the future, Dürr Group production sites will adopt a standardized management system developed internally for manufacturing processes. Dürr and its subsidiary iTAC jointly developed their Manufacturing Operations Management (MOM) solution to digitally map and monitor production in real-time. This solution not only establishes a production control system across all Dürr production sites, but also serves as a best practice reference for other mechanical engineering companies.

The MOM system utilized by Dürr, which is geared to meet mechanical engineering requirements, aims to standardize the IT landscape and reduce interfaces as much as possible. It is designed to enable all Dürr Group production sites to adopt the system in alignment with the Group's 'OneMES strategy'. This strategy is intended to enhance production process efficiency, optimize planning and control processes, and map production processes in real-time across all Group sites. Dr. Arndt Eigeldinger, Vice President Manufacturing & Logistics at Dürr, elaborates, "The focus is on seamless networking of the shop floor, from machine integration and data acquisition, to order control and worker management, to optimized order planning and order execution with corresponding transparency across all levels of manufacturing

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and assembly. At the same time, the solution is a general blueprint for mechanical engineering.”

MES/MOM facilitates production planning across divisions

Among other benefits, the standardized MOM allows for the analysis of unplanned downtimes, continuous improvement of machine run times, and the implementation of systematic corrective actions. Martin Heinz, board member of iTAC Software AG, highlights, “The detailed planning of manufacturing and assembly as well as the integration of the quality division and logistics are important features of our new system. For that reason, the new solution also includes our subsidiary DUALIS’ production planning software, GANTTPLAN, and space planning software, AREAPLAN.” This enables comprehensive production planning across divisions and consideration of the entire value chain. The space planning tool supports effective schedule and capacity planning in assembly, optimizing space utilization on the factory floor.

First successful rollouts in the Dürr Group

In spring 2023, the new MOM was rolled out at Group subsidiary HOMAG’s Holzbronn and Schopfloch sites, as well as in parts of Dürr Systems AG in Bietigheim-Bissingen. The core modules focused on machine connectivity and order data acquisition. Jens Held, Head of Operations at HOMAG Plattenaufteiltechnik GmbH in Holzbronn, emphasizes, “The MOM is an important building block for our internal digitalization right down to the shop floor level. At the same time, it makes our processes much more robust and transparent, which ultimately also increases customer satisfaction.” More factories are scheduled for integration in the coming months. The standardized MOM introduction supports digital transformation within the Dürr Group, emphasizing the increasing digitalization of the entire value chain. It also creates synergies, so all Group divisions can benefit from shared system developments.

Simultaneously, it provides Dürr and iTAC with a best practice reference for other machine manufacturers. Dr. Arndt Eigeldinger notes, “A MOM used by the provider itself has a completely different impact. It is tailored and tested to

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The image shows a worker in a factory environment using a handheld device to interact with a large industrial screen. The screen displays the iTAC software interface, which is used for task management and production control. The interface includes a navigation menu on the left with options like 'Aufträge', 'Produktion', and 'Einstellungen'. The main area shows a list of tasks (Aufträge) with columns for task ID, description, status, and other details. Below the list, there is a detailed view of a selected task (Auftragsdetails), showing a timeline and various data points. The background shows industrial equipment, including a robotic arm and storage racks, indicating a manufacturing setting.

DÜRR GROUP.

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 20,500 employees and 140 business locations in 32 countries.

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