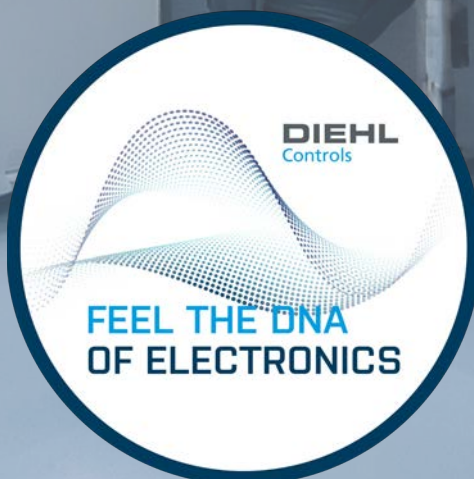


# Diehl Controls drives forward „Future Factory“ with MOM system from iTAC



Electronics

Case Study

# Diehl Controls drives forward „Future Factory“ with MOM system from iTAC

Global EMS service provider Diehl Controls is implementing quality assurance on a large scale. It uses the Manufacturing Operations Management (MOM) solution iTAC.MOM.Suite and its traceability function at five of its locations worldwide. The system is used to implement detailed traceability and process monitoring via interlocking. In the long term, iTAC's MOM solution will act as a central control element for all areas of a „Future Factory“ at Diehl Controls.



**Diehl Controls, leading system developer for the household appliance industry**

## About Diehl Controls

Diehl Controls is one of the world's leading specialists in the development and production of electronic assemblies, system components and drive inverters for the household appliance industry and technology-related markets. The company is a subgroup of the Diehl Group, which employs around 17,000 people at over 80 locations in around 20 countries on four continents. Diehl Controls is represented in Europe, the USA, South America and Asia and produces around 50 million electronic systems and components annually.

**3,435**  
Employees

Assembly group

System components

Drive inverter

**DIEHL**  
Controls

A Manufacturing Operations Management (MOM) solution with integrated traceability functionality is an indispensable tool for meeting today's requirements for high-quality and regulated manufacturing processes in the EMS industry.



„The use of a MOM in different plants has become essential for us in order to consistently fulfill internal quality requirements and make processes more transparent. Always with the aim of achieving continuous improvements. At the same time, we use process interlocking to prevent a further processing of incorrect or incomplete products. This enables us to guarantee production in accordance with regulations.“

Markus Blattner, Director corp. Application Management at Diehl Controls

## MOM handles immense data volumes at five locations

Diehl Controls has been relying on iTAC's MES solution (now MOM) for the production of electronic control systems for household appliances since 2015. The company is gradually expanding the collaboration to include new functionalities. The iTAC solution is now implemented at five Diehl Controls locations: in Germany, Poland, Mexico and two subsidiaries in China. The implementation was mostly carried out independently by Diehl.

At Diehl Controls, the entire production process is covered and controlled in the iTAC.MOM.Suite. To ensure the quality of the processes, a repair client is also used to carry out repair processes and activities, prevent repair cycles from being exceeded and define repair options. This ensures the systematic and organized handling of both rework and repairs to SMT assemblies.

Blattner describes a particular challenge: „As a global company, we have an enormous volume of data. This calls for software that can process immense volumes of data quickly and easily. With the iTAC solution, we were convinced by the impressive speed and the response time for high data volumes. A total of 500 to 600 data points were connected. The solution itself was easy to connect via an API.“



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Controls



## Planned as a central control element of the „Future Factory“

„The feedback from users at all locations is consistently positive. By scanning an assembly, they can immediately see its status, which component batches have been installed, which processes have been run through, where the unit may have already been modified and which units have not yet gone through this process. Thanks to the wide range of functions of the iTAC solution, many of our customers' requirements in the area of traceability and process interlocking could be easily implemented,“ says Blattner.

Diehl Controls aims to use the iTAC.MOM.Suite for higher-level control, monitoring and optimization of production processes in the sense of a „Future Factory“.



**„The iTAC solution offers the necessary transparency, efficiency and flexibility to implement a modern and networked production environment.**

This allows the factory of the future to be realized. Among other things, this means digital management of workers, digital work instructions and paperless workstations. For the future, preventive and predictive maintenance of systems and communication with AGVs/AMRs could also play a role. We are convinced that the iTAC.MOM.Suite is predestined for all these areas as a central control element within the factory.“

Markus Blattner, Director corp. Application Management at Diehl Controls





iTAC Software AG, an independent company of the mechanical and plant engineering group 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 in Germany.

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 subsidiaries and a partner network for sales and service worldwide.

Our philosophy is to connect people, data and systems.

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