

Press release

MOM specialist shows international audience of electronics manufacturing industry new solutions for discrete, digitalized production

Transparent manufacturing: iTAC to showcase analytics solutions at IPC APEX EXPO

Montabaur, December 5, 2022 – Data collection and analysis form the basis for error prevention, targeted actions and predictions in the factory of the future. This will be showcased by iTAC Software AG (www.itacsoftware.com) at the IPC APEX EXPO from January 21 to 26, 2023 in San Diego. The focus will be on the MOM (Manufacturing Operations Management) system iTAC.MOM.Suite, which is designed to meet the requirements of discrete, digitized manufacturing. It creates transparency, optimizes processes and increases the quality of products. iTAC will be presenting these and other benefits at the trade fair at a joint booth (#2533) with its subsidiary Cogiscan Inc.

"Past, Present & Future at your fingertips – Advanced Analytics for your factory" – this is the main focus of iTAC's and Cogiscan's joint booth at IPC APEX EXPO 2023, where iTAC will be presenting the functions and components of its MOM system to an international audience.

Data collection and analysis – essential in the Smart Factory

"Data and key figures in production support those responsible in gaining transparency about the processes and in deriving improvement measures and evaluating these in turn. In this way, cost, quality, and time factors can be optimized. We support the implementation of these goals with our

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iTAC.SMT.Edge machine integration platform, which serves to standardize and centralize data. The subsequent data analysis in real time and further processing is handled by the iTAC.IIoT.Edge software," explains Martin Stempel, Business Development Manager Data Analytics at iTAC Software AG.

The iTAC.IIoT.Edge analysis tool can, among other things, combine IIoT data with MES data to form flat data structures and analyze this data in real time. The MOM system in combination with the iTAC.IIoT.Edge is able to correlate and interpret measurement data with product and machine information. The Edge software combines streaming and batch analytics on a central scalable platform with out-of-the-box access to MES data.

The iTAC.SMT.Edge machine integration platform, the result of a collaboration between iTAC and Cogiscan, consolidates data on the shop floor and distributes it to higher-level systems. This edge solution provides meaningful and relevant dashboards to display machine and line performance in real time. It provides a detailed analysis of production history as well as area-specific KPIs and metrics relevant to SMT manufacturers.

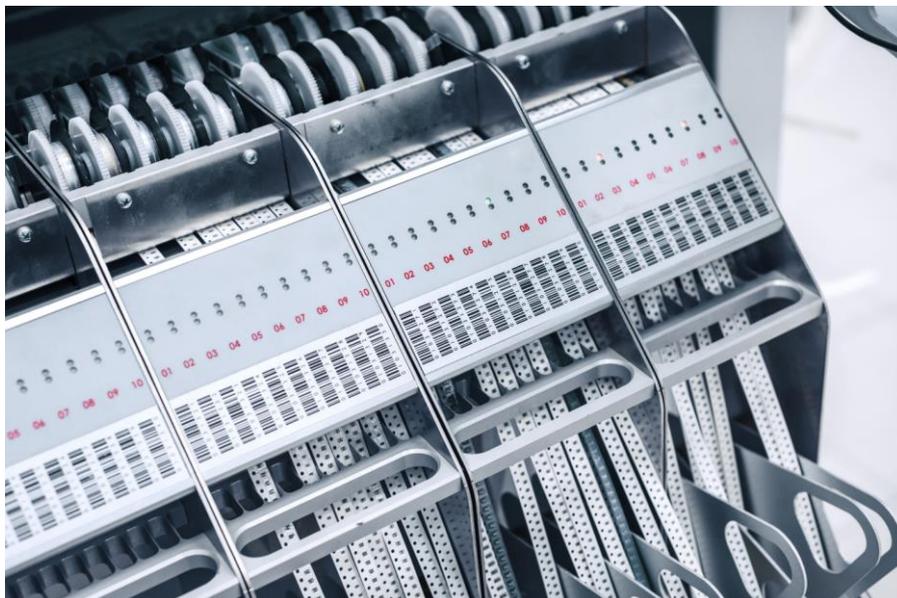
Use Cases Based on AI and ML for SMT Manufacturing

By using the two edge solutions as components of the MOM system, numerous use cases for modern SMT production can be implemented. One example is AOI false call reduction through automatic optical inspection. The use of AI/ML models to analyze AOI data reduces false calls. This also makes it possible to classify whether an inspected PCB has real or pseudo errors. SPI false call reductions for solder paste inspection and other false call reductions can also be performed. Another option is automatic X-ray inspection, which provides greater process reliability when inspecting assembled PCBs. This leads to quality and process improvements in production.

"Data is the basis for the optimization of production processes and new value-added opportunities in the smart factory. The scope for action that results from the use of the iTAC.MOM.Suite in combination with analysis functions is extensive. We will provide a comprehensive overview at APEX," explains Peter Bollinger, CEO of iTAC Software AG.

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iTAC to showcase analytics solutions at IPC APEX EXPO Image source: AdobeStock_268784457

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 and digitalization/Industry 4.0. Its products, systems and services enable highly efficient and resource-saving manufacturing processes in different industries. The Dürr Group supplies sectors like the automotive industry, mechanical engineering, chemical, pharmaceutical, medical technology and woodworking industries. It generated sales of € 3.54 billion in 2021. The company has around 18,100 employees and 120 business locations in 33 countries.

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