

MES specialist provides smart production logistics solution with AGV

iTAC supports fully automated replenishment control in SMT production

Montabaur, November 12, 2018 – MES specialist iTAC Software AG (www.itacsoftware.com) has developed a smart solution for next generation production logistics. The iTAC solution supports automatic replenishment control with driverless transport systems in SMT production. The process extends from Material Pull System (MPS) through Auto Storage (AS) to Automated Guided Vehicle (AGV). Advantages include a workload reduction for factory personnel, constant material control and the elimination of buffer stock.

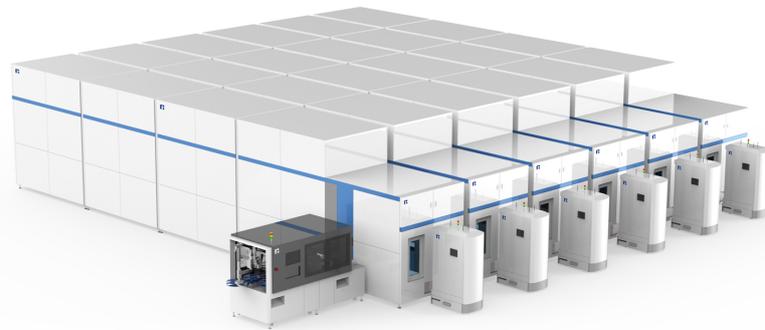
“Production lines and the associated IT infrastructures are becoming progressively connected. As a result, material logistics processes have to be flexible and automated. That’s why Automated Guided Vehicles (AGVs) are increasingly being used. They autonomously move around the shop floor transporting necessary material to the production line,” explained Peter Bollinger, CEO of iTAC Software AG.

MES manufacturer iTAC supports these automated material logistics processes – from requirements planning to provisioning of the exact required quantities to materials management. iTAC supplies the control software with all the necessary data for the timely delivery of the material, based on job sequences, material information etc. The delivery information made available allows the AGVs to autonomously supply the required quantity of material at exactly the right time to the right place – the offline kitting area and then the SMT production line.

This automated, driverless process reduces the workload falling to personnel because the material doesn’t have to be manually transported from A to B. Also the manufacturer has control of where the material is located at all times, which prevents late deliveries.

Precise material requirements calculations reduce the amount of material on the shop floor. As a result, wait times are shorter and production availability is optimized, which significantly improves SMT line efficiency.

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Material Pull System through Auto Storage (AS) and Automated Guided Vehicle (AGV) (Source: Robotechnik)

About iTAC

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 providers in Germany. The iTAC.MES.Suite is a cloud-based Manufacturing Execution System that is used worldwide by companies in different industry sectors such as automotive manufacturers and suppliers, electronics/EMS/TC, medical technology, metal processing and energy. Additional services and solutions enable the implementation of industry 4.0 and IIoT requirements. iTAC's philosophy is connecting people, data and systems. iTAC Software AG has its headquarters in Montabaur (Germany) as well as a branch in the USA and a global partner network for sales and services. The Dürr Group is one of the world's leading mechanical and plant engineering firms. Products, systems and services offered by Dürr enable highly efficient manufacturing processes in different industries. Business with automobile manufacturers and their suppliers accounts for approximately 60% of Dürr's sales. Other market segments include, for example, the mechanical engineering, chemical and pharmaceutical industries and the woodworking industry.

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