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MES FOR SMART MANUFACTURING IN ELECTRONICS: 4 STEPS FOR SUCCESS

In *The Role of MES for Smart Manufacturing in Electronics*, Aberdeen explores how Best-in-Class organizations deploy manufacturing execution systems (MES) to unify all manufacturing production information in real time and establish closed-loop scheduling, for both electronics (PCB) and mechanical (box build) production.

- ☐ Consider only an MES that is up to the industry-specific task: a solution specifically optimized for smart manufacturing in electronics. A Best-in-Class MES is based on an enterprise-level platform and grants a high level of scalability, rapid implementation, and, when needed, configurability.
- ☐ MES for smart manufacturing should support IoT-based, real-time sensor-data collection from the shop floor, to transform it into actionable insights and use real-time production analytics to generate closed-loop feedback to all stages of smart manufacturing. This supports continuous improvement in product-quality production efficiency and production execution.
- ☐ An end-to-end MES for electronics should support specific electronics-industry requirements, including both electronics (PCB) and mechanical (box build) needs. Don’t waste time on a non-integrated MES; an effective solution offers deep integration with other enterprise applications — most importantly, with production optimization scheduling software.
- ☐ Realize the potential of the digital thread: A full MES solution for the electronics industry creates a digital thread that normalizes data at all phases of the smart manufacturing process flow.

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