iT ENGINEERING
MANUFACTURING SOLUTIONS

Easy. Intuitive. Modular.

EMC makes your factory ready for the digital future

The **MES Software EMC** from iT Engineering Manufacturing Solutions GmbH is a Manufacturing Execution System (MES) of the modern kind for the **optimization of production processes** in terms of **productivity and flexibility.** Planning becomes more realistic, resources are used more optimally, responsiveness is increased, maintenance organization is simplified, and digital information management reduces costs.

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The modular architecture offers you the important **freedom and flexibility to implement your future-oriented production** - step-by-step or holistically - individual modules or as a complete system. It **adapts completely to your needs, integrates into your existing IT landscape and brings together the data streams from ERP and shopfloor.**

Basic Modules

For the smart start

Machine Data Acquisition

Capture machine data automatically and error-free and use it to visualize evaluations of machine failures.

Operational Data Acquisition

Make job information available at the machine terminal and thus facilitate data-driven work in production.

Monitoring

The current view into the production by merging the data of machines, orders and employees.

Reporting

Meaningful reporting and analysis with real-time metrics to determine appropriate optimization measures.

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Advanced Modules

For more digitalization on your shopfloor

Dashboard

Current status of production visualized directly on the shopfloor via individually configurable dashboards.

Detailed Planning

Resource-optimized detailed planning based on the costing data from the ERP and the actual progress of the machines.

Order Management

Efficient management, planning and monitoring of machine and department utilization in order to quickly eliminate overcapacity.

Maintenance

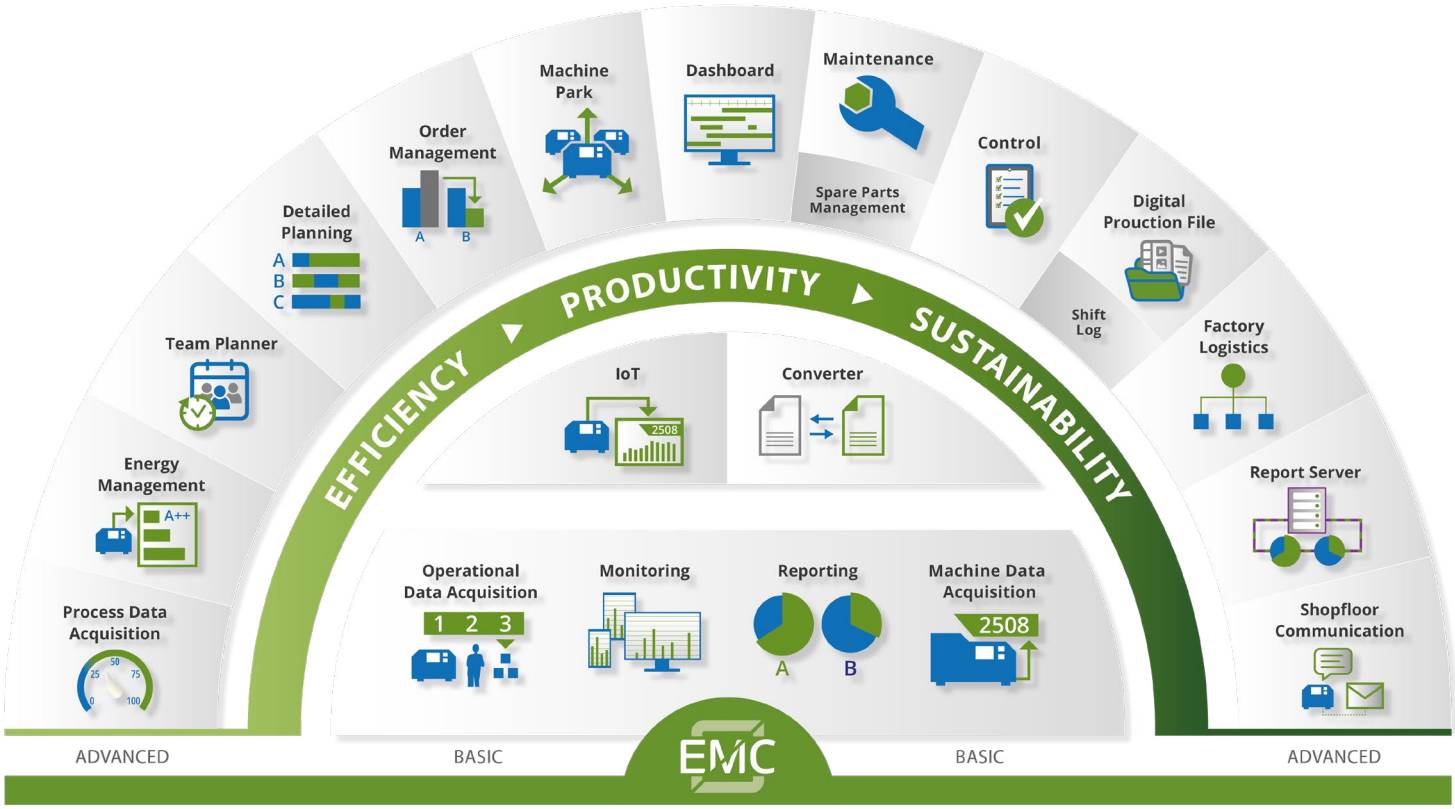
Digital maintenance and reliable documentation of machines and tools.

Spare Parts Management

The perfect addition to maintenance: Manage spare parts smarter and monitor them easily.

Digital Production File

Bundle important information and make it available where it is needed - without paper.



Process Data Acquisition

Continuous acquisition of process data such as temperatures, currents, pressures, etc. for optimal quality assessment.

Control

Get automated notifications to reliably carry out and document production checks to increase quality.

IoT

Modules for networking using OPC/UA, PLC adapters or programmable IoT gateways and terminals for visualization.

Team Planner

Reliable, digital workforce scheduling and machine allocation based on employee skills.

Energy Management

Reliably record, visualize and analyze energy values on the shopfloor to create key energy figures.

FactoryLogistics

Reliable and complete tracking of products, components, containers and batches in real time.

Message

Supports unmanned operation in the event of machine malfunctions by alerting the operator via e-mail or SMS.

Chat

Easily share information on the shopfloor via chat to facilitate communication and coordination.

ReportServer

Create and distribute meaningful reports for detailed analysis and evaluation for the entire shopfloor.

Converter

Continuous bidirectional data exchange and communication between ERP and shopfloor.

You can find our module flyers for download at **ite-ms.de/en/downloads**

iT Engineering Manufacturing Solutions GmbH is your provider of a well-developed Manufacturing Execution System in production management.

As an IT and MES expert in the metal forming industry and thanks to our large network of partners and memberships in associations (including VDFI and netzwerkdraht e.V.), as well as the best contacts with machine manufacturers, we know exactly how to obtain the important data and how to use it to digitalize processes and thus increase efficiency and productivity in manufacturing.

Our MES Software EMC acts as a central information hub and, by integrating the production data, ensures integration of production data for transparent production processes, flexibility and cost efficiency.

With a high level of technical and industry competence as well as many years of experience and expertise, we accompany you personally and step by step in transforming your production into a digital factory.

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WE ENABLE SMART MANUFACTURING