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MANUFACTURING SOLUTIONS

EMC.DigitalFile

Order information, notes, and shift log: Everything digitally at the machine

How do critical details reach the machine without delays, and how is valuable shop floor insight passed back seamlessly to production planning and control? With **EMC.DigitalFile,** you **provide drawings, work instructions, information, or videos digitally right at the terminal.** Operators add notes or downtime comments directly within the machine status interface. The result: an **automatically generated shift log,** complete transparency, and maximum production efficiency.

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Status Quo

Searching instead of producing? A typical day at the machine.

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EMC.DigitalFile

From paper chaos to a central information hub on the shop floor

The digital production file **consolidates all relevant information digitally** at the terminal, PC, tablet, and even on the container label. For the first time, it makes the flow of knowledge across your shop floor seamlessly usable in both directions and available at all times.

INFORM: Provide documents & data directly

No searching, no outdated printouts: Operators retrieve up-to-date drawings, setup plans, packaging guidelines, and instructions for orders, parts, or machines at their fingertips. This reduces setup times, ensures top quality, and lowers administrative effort. Even with short-term schedule changes, data at the machine remains fully updated.

CAPTURE: Record shop floor insights on the spot

Notes or comments on downtime and damage are entered directly within the machine status interface without switching modules. Valuable hands-on knowledge is instantly visible to everyone.

HAND OVER: The digital shift log

No more gaps during shift handovers: All comments, notes, status events, and production histories are automatically compiled in the shift log, completely transparent and printable as a report.

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Always the right data at hand, structured by order, part, and machine

Production planning provides all documents (drawings, images, PDFs, Excel sheets, videos, etc.) centrally. At the terminal, the **operator simply selects the appropriate filter** to instantly see the exact information relevant to the current work step. This **prevents information overload and ensures error-free execution.**

Order

Immediate clarity on specific order instructions and customer requirements.

Typical documents:
Order routing slips, specific customer requirements, schedule-critical notes, inspection orders.

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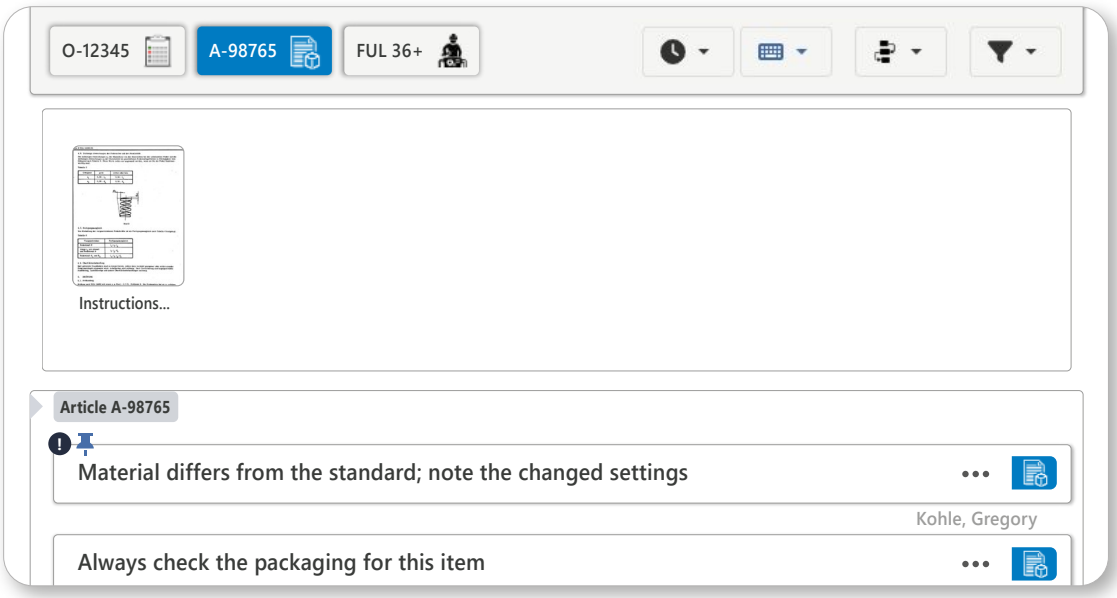
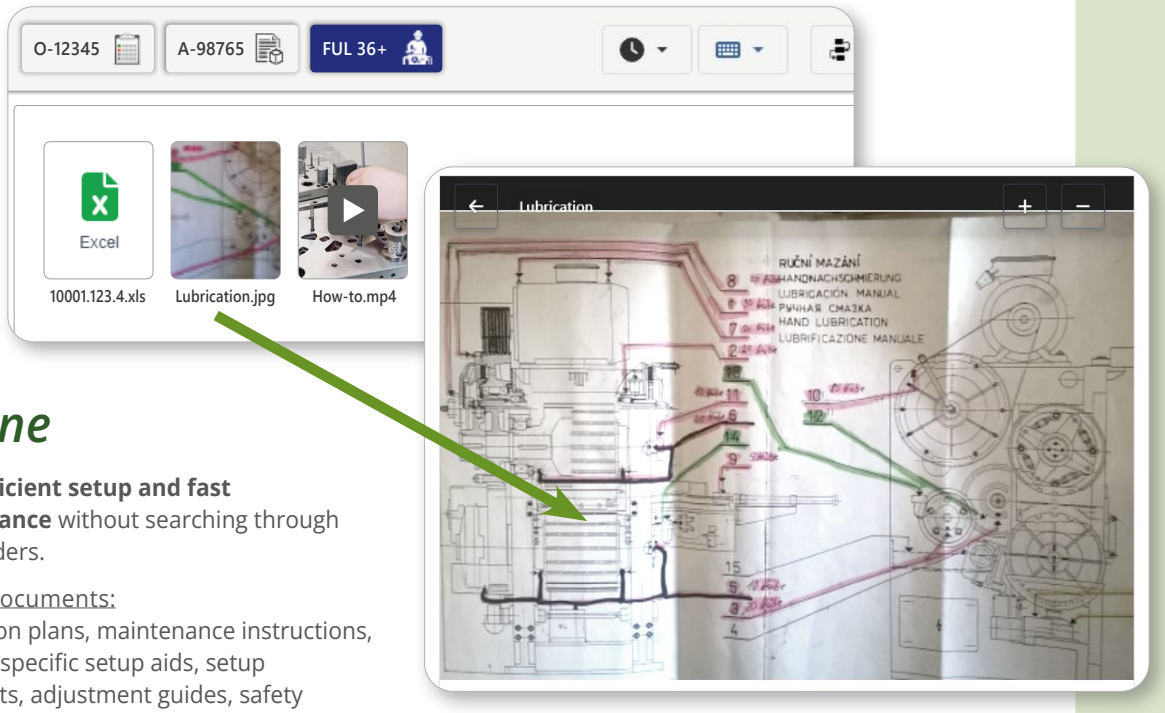


Article

Fixed part standards right at your fingertips, regardless of when or on which machine the part is produced.

Typical documents:
Drawings, CAD sketches, quality criteria, part-specific setup parameters, customer-specific instructions.



Machine

More efficient setup and fast maintenance without searching through thick binders.

Typical documents:
Lubrication plans, maintenance instructions, machine-specific setup aids, setup datasheets, adjustment guides, safety regulations.

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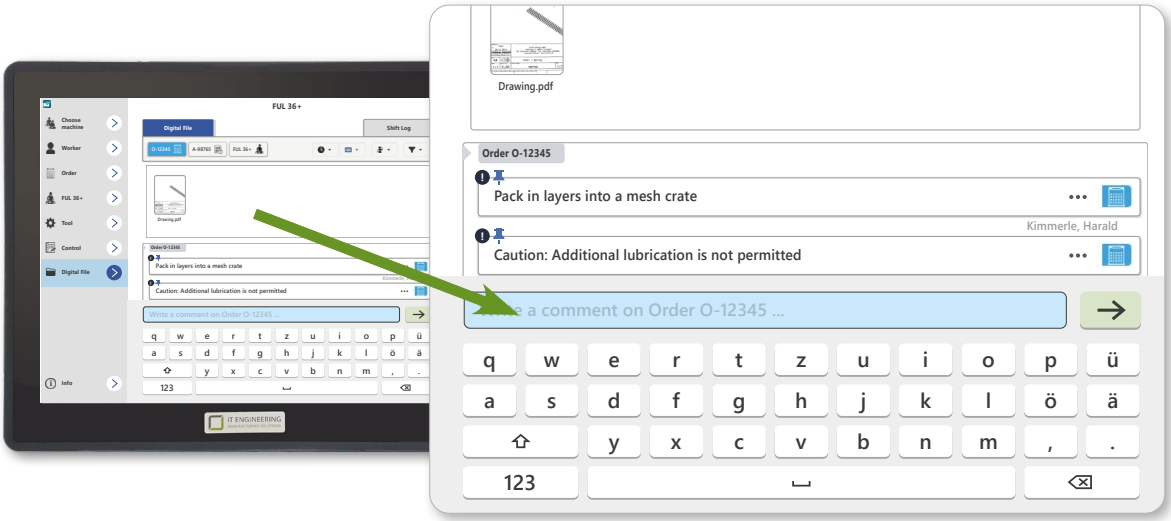
Capture comments right where they arise

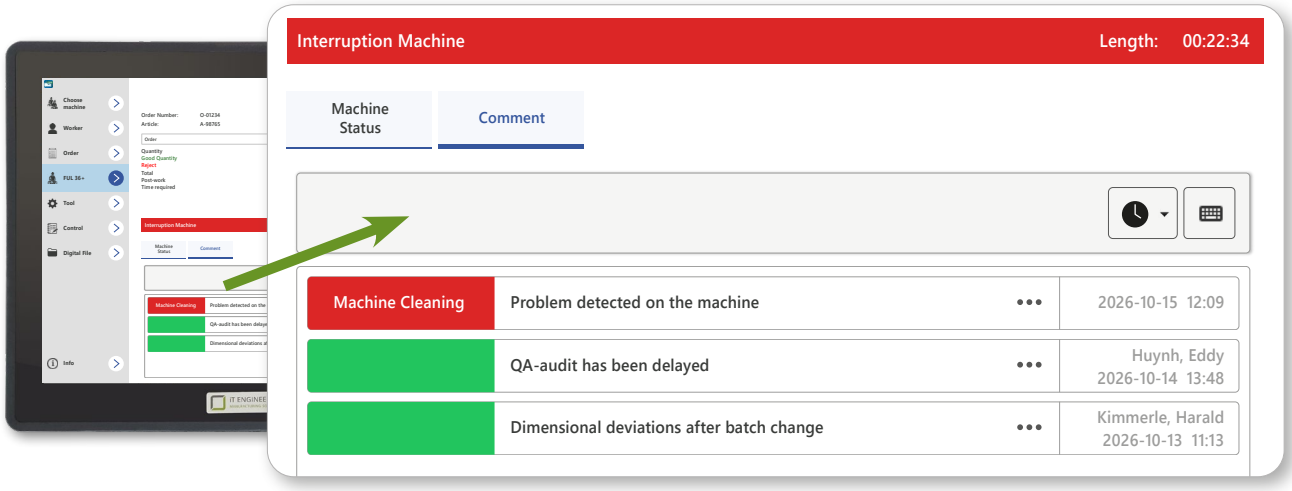
In the digital production file

Notes or special requirements regarding orders, parts, or machines (e.g., material deviations) are **saved directly in the folder.** This keeps valuable hands-on knowledge **stored on the object as a permanent digital work instruction.**



Directly at the machine status

Whether downtime, machine damage, or setup: Operators can comment with **specific reasons or additional information directly on the machine status** without tedious steps through text templates or manual workarounds. This enables accurate documentation and provides the foundation for **automated shift evaluation.**



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The Digital Shift Log: Full transparency across all events in your shift

The shift log integrated into the digital production file **brings together what belongs together:** it automatically consolidates status comments, folder notes, and production histories in one central location. Depending on preference, entries can be displayed for the day, week, shift, or any custom time period.

Live status updates

Downtimes, stoppages, and PDA status comments from the shift are instantly visible at a glance.

Complete history

Combined with order notes and production histories, this creates a seamless record of the shift, without manual handover sheets.

Flexible reporting

Generate transparent shift or weekly reports for analyses, evaluations, and printing with a single click.

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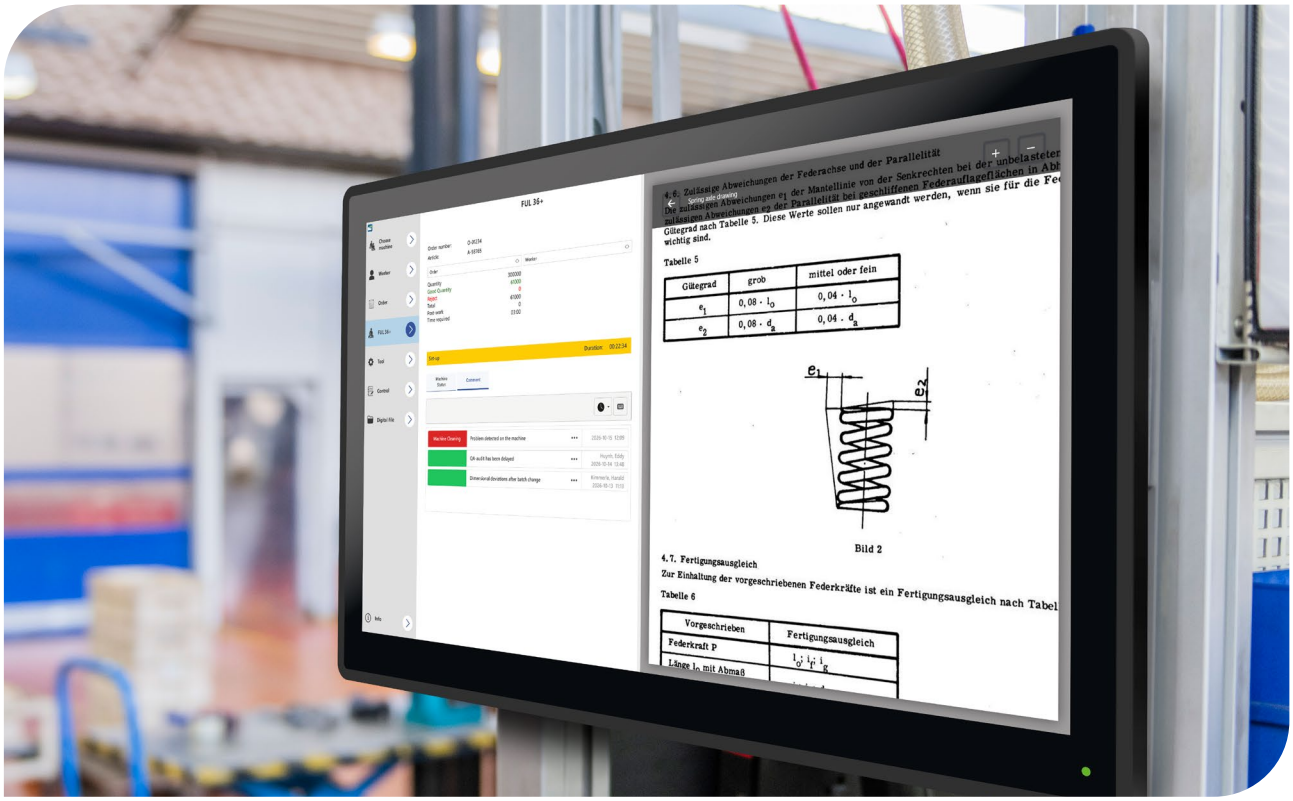
Flexible views & mobility: The digital file is right where you need it

Maximum efficiency is achieved when **information is available exactly where it is needed** without delays, without workflow interruptions, and in any desired format. Whether on a touch terminal, as a split-screen view on a 24-inch monitor, or mobile on a tablet: information delivery flexibly **adapts to your working environment, not the other way around.**

Everything at a glance without switching modules

Large 24-inch touch monitors deliver maximum clarity at the workplace. Thanks to **intelligent split-screen display,** constantly switching between different application screens is a thing of the past.



On one side of the screen, the operator keeps an eye on the current production status, while the other side simultaneously displays the drawing, lubrication plan, or shift log. This allows the employee to continue working productively on the job **while having all instructions or shift entries directly in view.**

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The modern alternative to the paper binder

Not every workplace requires new hardware infrastructure. If you rely on standard terminals, **simply extend the workstation with a mobile tablet,** giving the operator full access to drawings, notes, and the digital shift log at all times. This allows you to make optimal use of your existing hardware environment while bringing full mobility to the shop floor.

The digital production file travels with every container

The information from EMC. DigitaleMappe does not end at the machine terminal. Mark parts and containers clearly **including all stored information**, and **ensure seamless traceability throughout your entire operation.**

No more manual routing slips

The container label is individually configured and printed directly at the machine including order number, container ID, quantity, and more.

Full information via QR code scan

Warehouse, logistics, or downstream processing staff scan the code to access the exact same data and documents available at the machine terminal.

Maximum process reliability

No mix-ups, no incorrect container assignments, and 100% transparency across the material flow.

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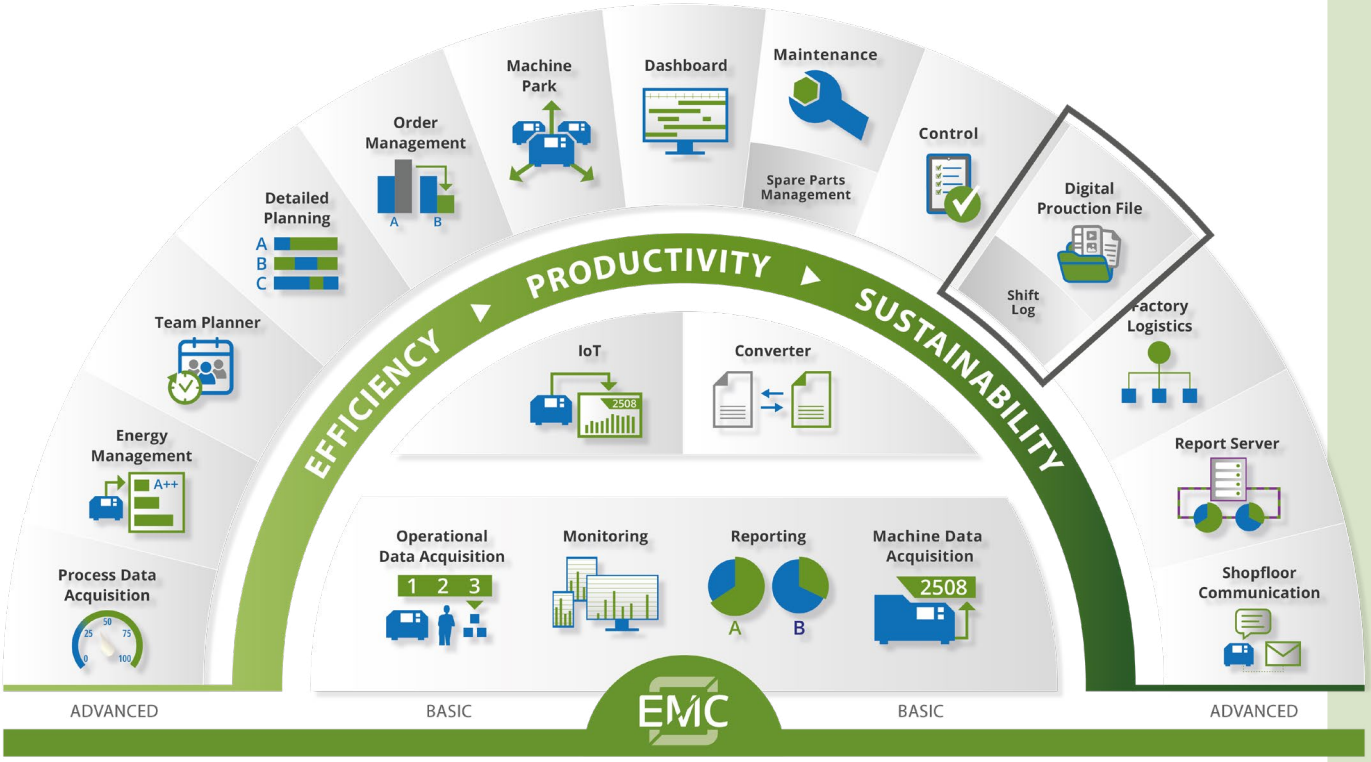
MES Software EMC

The solution for your smart networked manufacturing

Our user-friendly MES Software EMC controls all digital processes on the shopfloor **from planning, implementation, maintenance to traceability, shipping, production orders and a sustainable evaluation.**

It adapts completely to your needs, integrates into your existing IT landscape and brings together the data streams from ERP and the shopfloor.



The **modular architecture** of the MES Software EMC offers you the important **freedom and flexibility** in the implementation of your future-oriented production. Together with the **central MES database,** it is the basis for a **customer-oriented implementation - step-by-step or holistically - individual modules or as a complete system.**

No matter which solution you choose, with EMC you are always one step ahead and have the **best possible transparency** in production. All with the aim of **increasing your efficiency.**

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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