





EC Data

Workpiece tracking of operating, process and quality data in complex machines and manufacturing systems

System requirements

- » EMAG machine tools with SINUMERIK 840Dsl control panels
- » ETHERNET infrastructure for connecting the machine tool (provided by customer)
- » Specific workpieces with unique identifiers (e.g. DMC) and corresponding readers at the machines; alternatively, integration in revolving workpiece carrier systems using RFID chips.
- » Server infrastructure provided by customer if necessary

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Advantages

- » Meets the requirement for data traceability
- » Logging of process and operating data for machines and manufacturing systems
- » Support for offline stations (measuring stations, batch processes, etc.)
- Use of IT standards (Ethernet, SQL server, etc.)
- » Export function (*.xml, *.csv, Q-DAS, etc.)
- » Advanced data management, use of mobile clients
- » Simple project configuration and start-up
- » Individual adjustments possible





EC Data ensures traceability of production and quality data

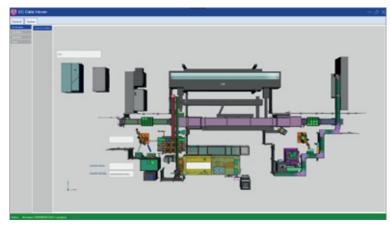
EC Data is a software package that provides traceability of production and quality data for a workpiece. When production lines consist of several machining units, data is collected centrally and then made available on an SQL server for further processing. EC Data also provides export interfaces for Q-DAS, Excel, and many other systems.

EC Data provides traceability for every single workpiece. This includes the storage of all machining results and the documentation of operating and process data for the machines. EC Data controls the naming and data management, even across multiple manufacturing systems. The result is a history for each workpiece that includes all relevant technical production information.

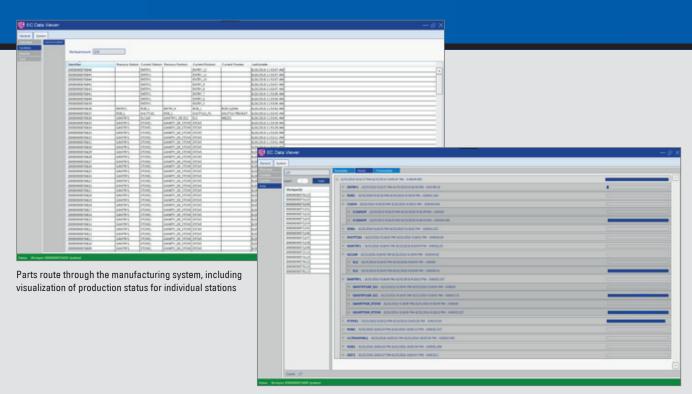
Production results remain available even years later, ensuring seamless quality control and documentation. For example, workpiece identification allows parts that were removed from the manufacturing process for external quality control to be introduced back into the manufacturing process. Since the full machining history is available, the workpiece will be automatically transported to its next production step for completion.

EC Data software modules

- » EC Data NC: Software for generating the operating, process, and quality data; one required per control unit
- » EC Data PC: Collecting of operating and process data for individual machines, results visualization
- » EC Data DB: Server for data concentration and storage



Layout of a manufacturing system, including visualization of parts flow and of production status



Production history of the machined workpiece in table form