

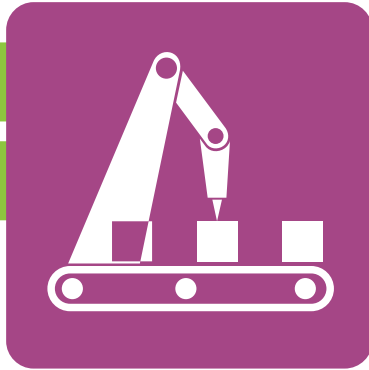
Qguar MES

Manufacturing Execution System

Ready for

RFiD

Voice



Contains



Visual indicators



Notifications

In the changing market conditions, management of a manufacturing plant – even of a limited size – more and more often requires support in the form of an IT system. Quantum's response to such a need is Qguar MES. Qguar MES allows quick and effective modelling of manufacturing processes and collecting information about them. The ability of integration with external systems (ERP, SCADA, other logistics systems) allows products, components and raw materials to be tracked in each stage of their lifecycle within the plant; starting from order acceptance through manufacturing up to shipment to the recipient. Information about the manufacturing process support management based on Lean Manufacturing principles. The system supports also quality standards such as HACCP, IFS, SIX SIGMA, etc. Definable reports offer full insight into the processes taking place in the manufacturing area with different levels of detail – from shift foremen up to plant managers.

System advantages

- increased efficiency of employees and equipment
- Lean Manufacturing support
- reduced manufacturing costs
- improved manufacturing flexibility
- communication with automatic industrial equipment
- real-time process tracking
- early response in emergency cases
- elimination of paper document management
- organization of processes and resources
- integration with external systems
- quick and easy business process modelling
- modern and user-friendly interface

Use

Qguar MES is a tool dedicated mainly for manufacturing plants, where it is necessary to accurately measure production costs as well as staff and equipment efficiency. Collecting manufacturing process information supports the management based on Lean Manufacturing principles, i.e. eliminates waste and minimizes costs. It is also recommended for plants which use quality maintenance systems such as: HACCP, IFS and SIX SIGMA. The system collects information on production process and propagates it according to defined authorizations, which allows the management to make decisions and offers the sense of security for manufacturing employees by means of access to readable and personalized information about tasks to be performed.

Functional scope

The system offers the following functions:

- bill-of-materials (BOM) management
- final product traceability
- management of business processes in the manufacturing room
- management of manufacturing orders
- creation and automatic updating of manufacturing schedule
- quantitative information of manufacturing in progress
- current and historical operation log for equipment and employees
- Lean Manufacturing implementation support
- quality control process support
- log of events in the manufacturing room
- management of product lots and serial numbers
- data exchange with external systems



Overview of basic system features



Final product traceability



Production line feed



Batch, serial number, and quality status control



Overall equipment effectiveness - OEE



Integration with external systems



Production scheduling



Management of production orders



Standard KPIs and definable indicators



Production logistics



Lean Manufacturing



Support of HACCP, IFS and BRC standards



Reason code structure for downtimes and shortages

Examples of MES screens