

The most modern window production worldwide!



Felbermayer Fenster und Türen GmbH with new web software solution, RFID and robot integrated production

The Felbermayer GmbH has launched a new production facility for the window manufacturing operation and introduced the Manufacturing Execution System FEtronic for the production automation with RFID.

The new software solution FEtronic is based on a Java web portal with business applications (Apps) for the individual manufacturing stations and workplaces. The entire production process that is based on robot support is right from the taking up of the scantlings consistently dynamically visualised. Parts tracking and parts localisation is automated and mobilised via RFID in real time. Faults can thus be avoided, all manufacturing steps are transparently visible and the rework of the parts is made more flexible with a visualised buffer. A traffic light controller e.g. indicates the processing state. Robots and handling systems are networked through FEtronic, identify the parts and are as such automatically preset and controlled.

All work steps are fully automated, so that one can execute work procedures (processes) without staff. Each App records the time that a part spends in a work step. The affiliation of the individual parts such as glass, etc. is through the automated identification with stationary and mobile RFID readers efficiently organised. The production procedures are thus accelerated and the quality assurance optimised.

Other business processes such as logistics, installation and maintenance can be economically organised with FEtronic in the next implementation steps via mobile Internet applications and RFID.

More information is available on request.

Impressions

Visualisation Commissioning

RFID

Robot

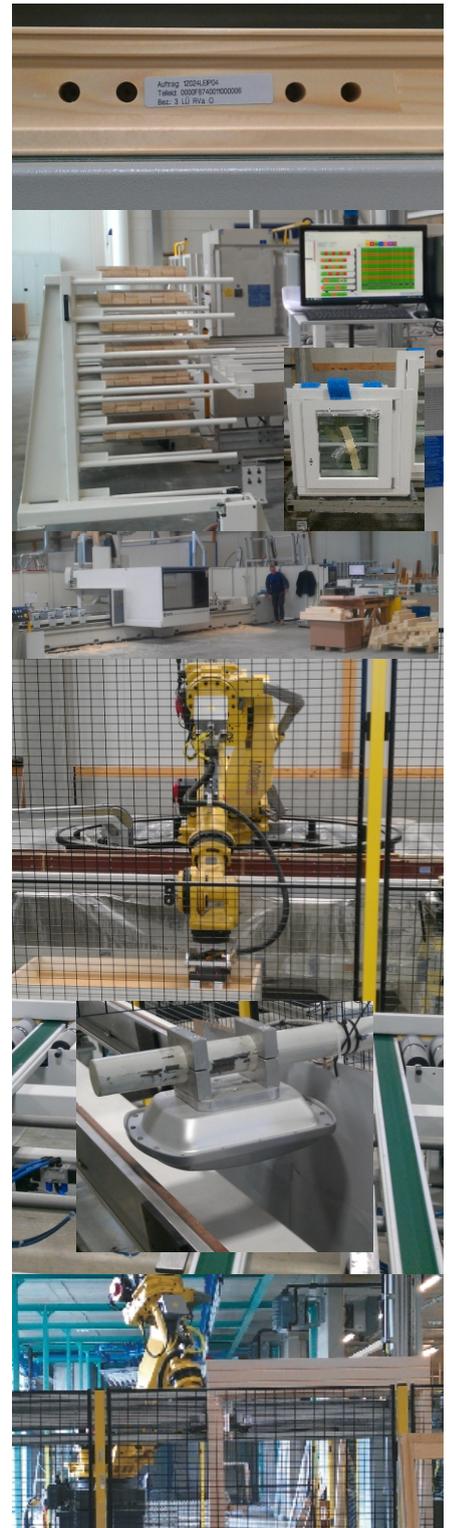
RFID

RFID integrated window production at Felbermayer GmbH

RFID

Parts localisation

Visualisation



Visualised window production

Parts tracking

For each window manufacturing station (workstation / machine) at Felbermayer, a FEtronic application (Smart Business App) with a flexible workflow is deployed. For example executed via app is the feedback, as to whether a part is good, or whether it needs to be reworked. In the graphical floor plan or the work plan chain, the parts tracking and parts localisation is displayed. The time per work step is stored and a lot more.



Robot / Handling

Information control and integration of machines in the production processes with business apps and RFID is optimised at Felbermayer GmbH.

Flexibility enhancement



Shielding

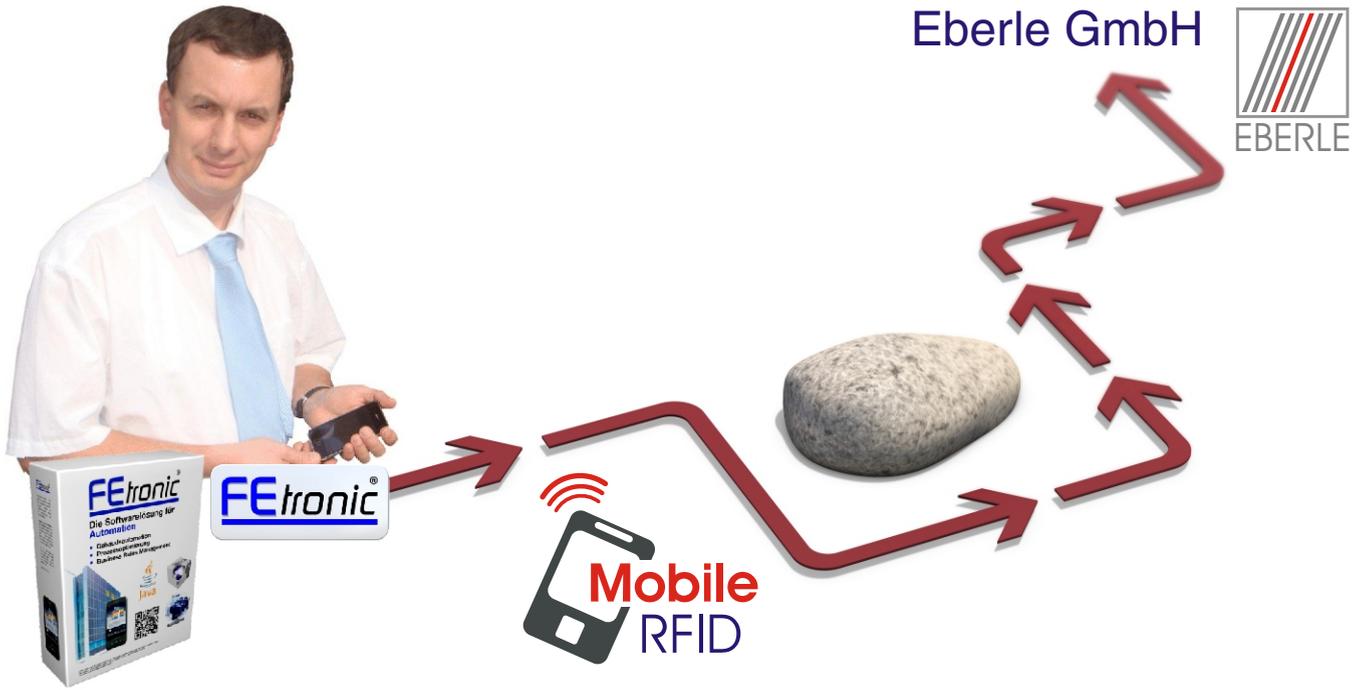
With RFID, the production is faster, easier and more flexible. Faults are avoided, the quality optimised and concomitantly the costs reduced.

Rework

There is a Smart Business App for each production station!



Buffer



Visualisation and online control
Solutions for process automation



Java solutions for mobile web apps!
- More agility and efficiency!

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