

DESCRIPTION OF THE QGUAR SYSTEM IMPLEMENTATION

Place of implementation:

Sułaszewo near Margonin

Implemented system:

Qguar WMS Pro

Qguar MES

Qguar APS

Cooperation commencement date:

2005. Qguar WMS Pro

2013. Qguar MES and Qguar APS

Warehouse operation mode:

The plant operates 5 days per week, in the three-shift mode.



Company profile

Jacobs Douwe Egberts with the head offices in Holland is the leader in the coffee market in 25 countries all over the world and a strong player in many emerging markets. The company came into being as a result of merger of Mondelēz International, Inc. with D.E Master Blenders 1753 B.V. The portfolio of the company takes advantage of the rich history of both companies, while drawing its value from the territorial range of its operations and from implemented innovative technologies. The portfolio comprises many leading product brands, such as: Jacobs, Carte Noire, Gevalia, Kenco, Tassimo i Millicano (Mondelēz International) as well as Douwe Egberts, L'OR, Pilão and Senseo (D.E Master Blenders 1753). Moreover, combined forces of both concerns allowed them to offer an even wider access to coffee of the highest quality to clients all over the world, while the company itself gained growth potential in an exceptionally attractive market. Jacobs Douwe Egberts employs 7000 persons all over the world, including 2200 employees in Holland. In Poland, the company is known primarily thanks the Prima and Jacobs brands.

Business line characteristics/challenges

Coffee producers – as other companies in the food industry – must ensure their products are of the highest possible quality and cope with changing trends in the coffee market. In the first stage, the coffee roasting plant in Sułaszewo was looking for a WMS-class system that would support warehousing logistics. As the company kept developing, it turned out useful to implement an IT solution that would improve and speed up the production planning process, facilitate the process of assuring the highest quality of products and allow one to quickly react to changes of production parameters. The main task posed for the expected solutions consisted in monitoring and analysing production processes in terms of efficiency and quality. The system selected for the coffee roasting plant had to offer an advanced process and genealogy tracking module, as well as a machinery management module.

Selected solution

Prima decided to choose the Qguar WMS, Qguar MES and Qguar APS systems. Qguar MES was integrated with the SAP ERP implemented in the company, as well as with SCADA systems. The integration with the existing solutions allowed the company to automate the flow of information from the moment of delivery of raw materials up to the stage of shipment of ready products.

Benefits

The Qguar system operates in the Jacobs Douwe Egberds Polska company, where it supports the management of production and warehousing processes. Thanks to the combination of Qguar WMS, Qguar MES and Qguar APS, it is possible to establish close cooperation of many company departments that are decisive for product quality. The solution in operation allows the time of production planning to be shortened as well as production and logistic processes to be monitored.

Qguar APS provides the possibility of production planning and production order scheduling. Scheduling of orders aimed at maximum shortening of their realization allowed the company to reach a higher efficiency level and to reduce unit production costs. Presentation of the utilization of particular resources (including human resources broken down into departments) facilitated the process of production management in Jacobs Douwe Egberds Polska.

Qguar MES allows one to collect information about the genealogy of a final product. It informs about who produced what and when, as well as about raw materials and half-products used in the final product (which includes information about batch numbers and serial numbers). Additionally, the genealogy data contain information about article attributes (machine change-over and characteristic parameters of processes) and samples collected for quality control purposes. Thanks to the product genealogy function, Jacobs Douwe Egberds Polska acquired the possibility of reducing losses. QGUAR MES also allows one to supervise and plan product quality tests, to record the relevant data and to generate quality control reports. Additionally, the system offers a set of reports that reflect the status of the key performance indicators in real time.

Thanks to the synergy of several Qguar systems, managers can react to deviations from plans and observe all delays or accelerations on one planning screen. At present, optimization and preparation of various versions of production plans does not constitute a problem for the company. It is possible to graphically trace the production process and get access to detailed information at any moment.

