KHS Maschinen
Dortmund, Germany

//KHS

*Aseptic Cold Filling at a KHS Maschinen
Beverage Industry Customer*
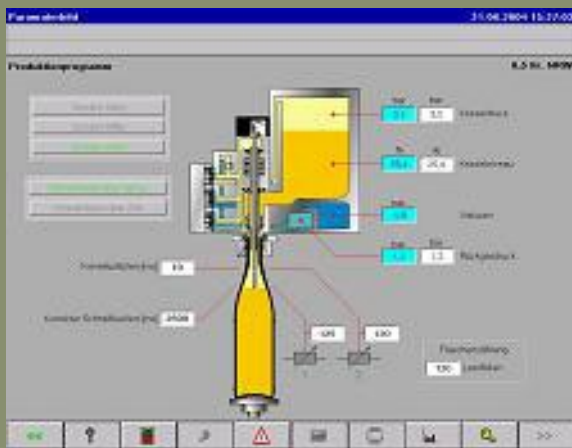
KHS Parameter Display Screen

About KHS Maschinen

KHS, with headquarters in Dortmund, Germany, is a market leader in the deployment of ACF (Aseptic Cold Filling) applications for the beverage market. KHS offers the highest level of competence as an international full-service provider in planning, deploying and maintaining filling and packaging applications for the food and beverage industries. In 2003, KHS generated revenue of 700 million Euros with 3,200 employees around the world.

Eckes-Granini Deutschland GmbH is a market leader in Europe in the fruit juice market. At its facilities in Bad Fallingbostel, Germany, Eckes-Granini successfully deployed an innovative aseptic cold filling application by KHS. Specialty fruit juices are microbiologically sensitive and perishable when exposed. The ACF (Aseptic Cold Filling) process allows for fruit juices to be filled into PET bottles at a temperature of only 68 Deg F (20°C). The main advantage with the ACF process is that KHS completely eliminated the need for preservatives, thus improving product quality.

ICONICS Software Deployed

KHS standardized on GENESIS32™ to control its applications and machines and to visualize the entire ACF process. The GENESIS32 Software Suite is able to meet KHS' sophisticated needs for scalability, graphic capabilities and modularity for machine control and visualization. GENESIS32 communicates via OPC and Profibus to a Siemens S7 PLC and I/O running on the Microsoft Windows 2000 operating system. GENESIS32, as a modular suite of products, allows KHS to use only the components they need. It is easy to add modules, as the complexity and requirements of the process change. All ICONICS client software modules are based on OPC technology, which makes it easy to communicate and interact with other automation hardware and software products.

Project Summary

GENESIS32 also offers an excellent international language switching technology. Graphic symbols, as well as trend and alarm applications, can be created once and re-used all over the world, resulting in tremendous savings in areas of applications engineering and support.

Key Features

Another major advantage of GENESIS32 is its integration in today's IT environments. Using GenBroker™, OPC and SOAP/XML communications technology makes it easy to connect and visualize processes in existing IT structures. Also, accessing enterprise-wide databases is essential when analyzing historical production and business data.

KHS appreciates the intuitive configuration environment of GENESIS32. GraphWorX32 allows for the easy creation of animated 3D graphics to visualize process applications. The Symbol Library provides the application engineers with often-used symbols, and also allows users

Conclusion

KHS' high expectations in its ACF application and GENESIS32 software have been met. Both KHS and ICONICS provided innovative solutions in their respective fields, resulting in a major contribution to the quality of Eckes-Granini fruit juice products.
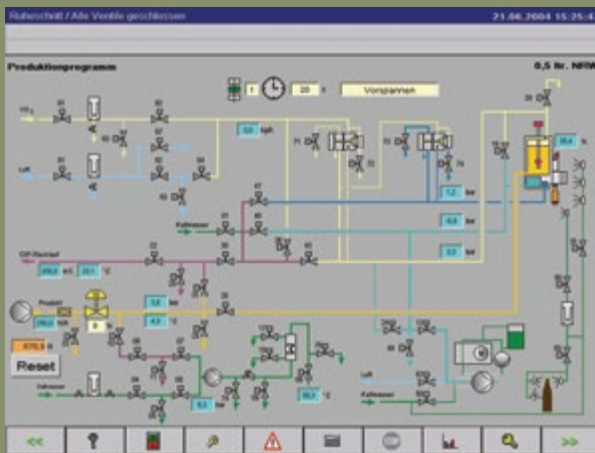
Process Display at KHS Maschinen
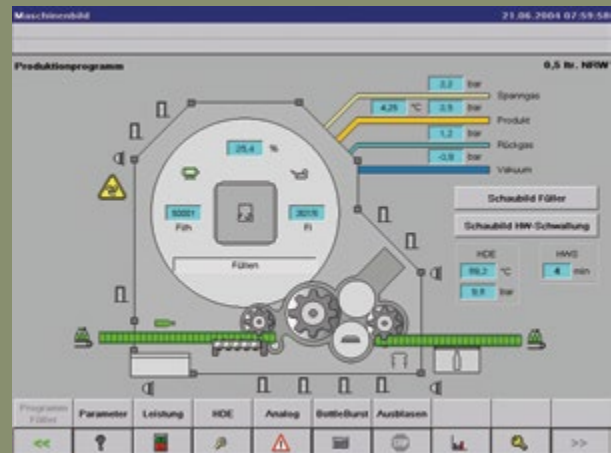
Production Management Screen

to save custom symbols with all dynamic and language-specific connections for later use.

The ICONICS Security Server provides a built-in security architecture that supports FDA 21 CFR Part 11 requirements. Audit trails and multi-level password protection are built into the Security Server. Therefore, all operator interaction (who, where, when and what) is documented and stored in a database.

Solutions Highlighted

GENESIS32
Web-Based HMI/SCADA Visualization

GraphWorX
HMI Graphical Display Package