



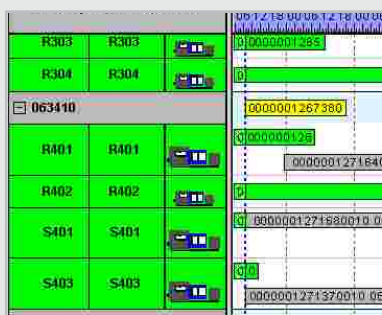
Screenshot: Machinery

Further HYDRA functions are available for initial sample inspection, validation as well as measuring and test equipment. Special demands for the automotive sector are covered with the special CAQ-Automotive module.

Most FDA validation basics (FDA 21 CFR Part 11) like access control, audit trails, data consistency, and user identification have been taken into account; however, this module part can still be extended.

Higher transparency and optimized processes

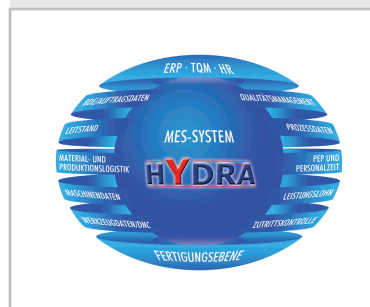
The new MES system offers advantages on all levels. Processes that can be carried out at high performance are very cost-efficient and enhance the production quota. A proactive prevention of production downtimes, fast reaction to shortfalls, and traceable order planning facilitate accurate and reliable delivery dates. Finally, automated quality checks linked to the production process and the well documented traceability ensure that all products comply with the required quality standard.



Screenshot: Graphic planning



WILDEN AG: Clean-room production in Pfreimd, Germany



Standardized Manufacturing Execution System for the WILDEN Group

Enhanced efficiency and quality through IT 2007

The new Manufacturing Execution System (MES) of the MPDV Mikrolab GmbH (Mosbach, Germany) enables the WILDEN Group to further improve their processing so that performance, delivery dates, and documented Quality Management become even more efficient and reliable. The integrated system solution consisting of single modules will be applied to all production plants and covers all steps of the value-added chain in terms of production and quality areas.



MPDV Mikrolab GmbH in Mosbach, Germany

Today, top performances are only possible with extremely powerful data processing on all organization levels. The product and service quality demanded for in global competition can only be achieved if all necessary information is available anytime and anywhere. Grown software structures in which numerous isolated applications for different tasks or locations are intertwined with individually programmed interfaces no longer fulfill today's requirements. On the Enterprise Resource Planning level (ERP, best possible usage of all company resources for processing), integrated software solutions facilitating an operative handling of all



WILDEN AG: Production site in Pfreimd, Germany

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elements on a cross-company level made their way. Below this level, the Manufacturing Execution System (MES) used to control and monitor production processes can still be optimized.

New project in Pfreimd, Germany

In February 2005, the WILDEN Group decided to enhance their overall production efficiency as well as the customer service by introducing a cross-company Manufacturing Execution System. The decision on the "right" system for the WILDEN Group has been made by a project team counting nearly 40 members from sales/accounting, plants and production. The first task of the project team was to develop specification sheets and search for possible software providers. From 14 companies, the WILDEN Group chose MPDV Mikrolab GmbH located in Mosbach, Germany.

Before the contract was concluded, the software had been tested thoroughly for two months in our German location Pfreimd. In order to perform a productive testing phase, we appointed a key user team. Based on the team's successful experiences, we created a detailed requirements specification and started to plan in detail. With the contract conclusion by the end of September 2005, the MES project was kicked-off. The first step now is to replace the existing system in Pfreimd by the new Manufacturing Execution System. The other eight production plants of the WILDEN Group will follow.

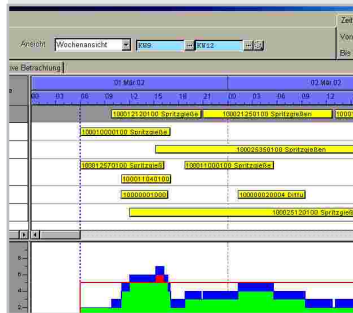
A software solution for the entire production area

HYDRA - as MPDV's software solution is called - covers all value-added chain steps in the complete production and quality area. An MES terminal with various functions designed by the WILDEN Group will be installed for each automation machine. The integrated system solution with a modular

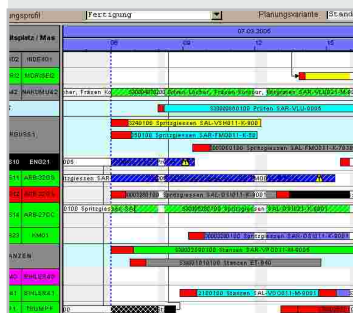
structure provides extensive recording, planning, and informative functions we will use for production control. This performance in turn benefits both the company and the customer. WILDEN plans to work with all available modules for production management and quality control.

- Order data processing ensures a constant monitoring of all orders. This facilitates real-time updates/progress for each single order.
- Machine data processing ensures the constant monitoring of all automation machinery. Thus, occurring interruptions and malfunctions can be recognized and analyzed immediately, preventing production downtimes and resulting delays.
- The control station plans required and available resources for order planning. Possible impact of rescheduling, machine interruptions, or missing resources is evident immediately, hence reliable planning of production processes is improved and shortfalls or non-compliance with delivery dates is avoided.
- Functions for material and production logistics monitor and control the material flow across all production steps, intermediate storage facilities, and material buffers. Traceability of batches and lots enables a complete documentation of the product's manufacturing process.

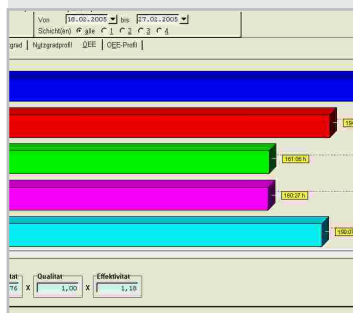
- The module for mold and resource management documents the life cycle of each mold and enables servicing and preventive maintenance. Therefore, production interruptions are actively avoided.
- The quality module covers the requirements for IPC (In-Process Control), final inspection, incoming goods inspection as well as related documentations and complaints/returns management.



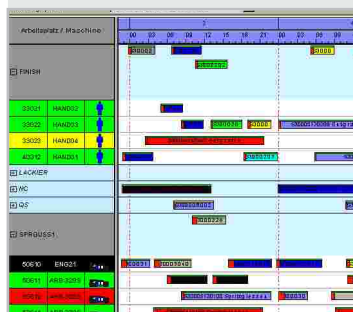
Screenshot: Group working load



Screenshot: Planning board



Screenshot: MDE-Degree of efficiency



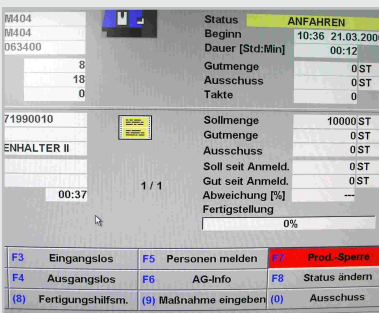
Screenshot: Graphic order status display



WILDEN AG: Members of the MES project team



WILDEN AG: Employee working at the MES-Terminal



Screenshot of the MES-Terminal