Holistic quality management in the production laboratory

OPTIMIZED AND STANDARD-COMPLIANT LABORATORY PROCESSES THANKS TO LIMS SOFTWARE

The drastically increasing number of legal product regulations and standards is putting increasing pressure on manufacturing companies worldwide. This is particularly challenging for laboratories, as they have to manage more and more tests with the same level of resources. The only way to meet this challenge while maintaining consistently high quality standards is to continuously optimize and adapt laboratory processes without disrupting ongoing operations.

The LIMS software from our product provider QDA SOLUTIONS is designed to do just that: optimize work processes, automate tests according to specified standards and support the laboratory work of personnel with test and work instructions, as well as the creation of test certificates and reports.

Centralized management and reliable analysis for a maximum-efficiency laboratory

With our software, it is possible to record all the processes and data of the laboratory centrally and display them locally. The data input is highly digitalized, enabling manual input and data maintenance to be reduced to a minimum. Even complex reporting and the generation of test certificates are automated within the solution. This not only results in considerable time savings, but also reduces the susceptibility to errors.

In order to meet the high demands of laboratories involved in production, our software solution offers tools for standard mapping, sample management, documentation and evaluation of test results as well as test certificates, resource management for the laboratory and key figures generated from this information. All laboratory equipment and laboratory tests can be integrated into the process, and their results can be recorded in accordance with standards.

Within the software, standards can be easily mapped by master test specifications. In the event of a change in the standard, the change can be stored in the master, through which all tests connected to the master are automatically adjusted.

The laboratory resource management integrated in the solution enables the simultaneous planning of personnel resources, qualifications and laboratory equipment while taking existing causal relationships into account. Laboratory test procedures are thus centrally controlled and documented with resilient throughput times, without the processes losing flexibility. Reactions to production or customer problems can be handled individually, but always based on the current standard.

Our LIMS software is also suitable for use in central laboratories that serve several production lines and locations. The solution supports both centralized audit processing and decentralized distribution of the results. The system communicates directly with the ERP or MES systems for data exchange.

Our LIMS solution is DIN ISO 9001:2015, IEC 17025, and FDA 21 CFR Part 11 compliant and supports your highest, quality-management standards.

Modular solution structure for your quality management

Our software solution for quality management can be built up in a modular fashion: You only have one infrastructure, regardless of the number of modules used. The integrated software architecture offers interfaces to PLM, CMM, ERP and MES systems. Thanks to Unicode, our solution supports multiple languages and is therefore ideal for worldwide use. The software is also based on databases, compatible with MSSQL, Oracle and PostgreSQL, and is "Citrix ready".

Our software provides integrated application security through user role definition and management. Active Directory support provides seamless integration in the existing the Active Directory, QDA role synchronization with AD groups, and users can be managed across the company. Support for PKI cards is guaranteed, as well as the secure encryption of data by the SSL/TSL standard. Security standards, such as password encryption according to the AES-256 standard, are also observed.

THE ADVANTAGES OF OUR LIMS SOLUTION AT A GLANCE

- Optimized laboratory processes
- Integration with your production and business systems, ERP, MES, QMS
- Management of system, cost and human resources
- Integration of test equipment, from legacy systems to the latest equipment

- Release, acceptance and validation processes
- Central definition of internal company and norm-related test standards
- Analysis and reporting functions

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