

## INDUSTRIAL MANUFACTURING 4.0

# HOLISTIC QUALITY MANAGEMENT FOR YOUR SMART FACTORY

A holistic quality management system provides the industrial manufacturing industry with the support it needs to increase customer satisfaction while complying with business rules, standards and requirements. Consistent use of a quality management solution helps to avoid cost-intensive recalls and supports you in collecting and processing even very large amounts of data. The modular design of the solution means you can use it according to your needs:

### Our software solution for your Quality Management 4.0 at a glance:

- Modular construction
- A single infrastructure, regardless of the number of modules used
- Rapid integration with other systems thanks to integrated software architecture such as PLM, CMM, ERP, MES systems or REST API
- Support for multiple languages thanks to Unicode and therefore suitable for use worldwide
- Database-driven, compatible with MSSQL, Oracle or PostgreSQL and ready for CITRIX and AMAZON WORKSPACE

Through the use of a variety of modules, we provide you with a scalable digital quality management system that is tailored to your needs.



## Supplier management

This supplier management solution extends your philosophy of quality to your suppliers. It integrates ERP, incoming goods, audit, action and non-conformance management, and ensures continuous development for your suppliers, in addition to compliance with common standards such as ISO/TS, VDA and others.

### Expected added value through the use of our software:

- Reduction of evaluation and monitoring activities by approximately 15%
- Optimisation of the planning and implementation of entry controls by at least 20%
- Reduction of time spent on non-conformance management by more than 20%

### The advantages of the “QDA SOLUTIONS supplier management Solution” at a glance:

- Integration of suppliers into the quality process through web portals
- Automated 8D and PPM reporting and analysis
- Evaluation of suppliers through ERP integration
- Integrated and automated supplier complaints
- Dynamic sampling plans and skip lot procedures

## SPC/Data collection

The SPC solution provides simple recording of production results and manages the interactions between people, product and process by providing exemplary operator guidance. In this way, the requirement for a continuous improvement process is implemented, while increasing competitiveness.

### Expected added value through the use of our software:

- Reduction of scrap by 10% (infinity)
- Time savings of around 10-15% when manually creating test plans
- Time savings of more than 80% when creating test plans using automatic test plan generation
- Time savings of up to 75% in internal claims processing
- Time savings of at least 75% in preparing weekly stand-up meetings

### The advantages of the “QDA SOLUTIONS SPC/Data Collection Solution” at a glance:

- Ensures conformity to industrial standards
- Measure and escalation management
- Interfaces to all measuring systems from callipers to coordinate measuring machines and machine controls
- Automated notifications manage quality decisions
- Ensures full traceability through process and production data
- Cross-product evaluations



## Traceability

The traceability solution specifically manages your business decisions through the centralised integration of product and process data. Easy access, flexible analyses and integrated action management all help to reduce errors, the need for additional work and the number of warranty claims, thereby promoting first time quality. The unique solution makes tracking and measurement results available simultaneously.

### Expected added value through the use of our software:

- 100% traceability from the supplier through production to customer feedback and measured data
- Saves more than 30% of the time normally required for tracing parts

### The advantages of the “QDA SOLUTIONS Traceability Solution” at a glance:

- Product status and history visible centrally and in real time
- Consolidation of quality data with traceability information
- Reduction of the number and cost of recalls
- Documentation tool for product liability
- Integration with ERP/MES systems
- Full information exchange with ERP and PLM systems via the standard interfaces

## Integrated advanced product quality planning

Our solution for integrated advanced product quality planning revolutionises the complex process of documentation in product development and helps to save time and resources. It supports communication internally and with customers and simplifies the fulfilment of external requirements. The solution integrates the APQP process, process flow diagrams, the process flow chart, design and process FMEA's, MSA's and the PPAP process.

### Expected added value through the use of our software:

- Reduction in the time required for follow-up projects by about 30%
- Reduction in repeated errors by 90%
- Reduction of audit deviations by 80%
- Over 90% less work required for new “child” parts

### The advantages of the “QDA SOLUTIONS Integrated Quality Planning Solution” at a glance:

- Reduction of redundant data entries using the part family principle
- Compliance with internal, industry and customer-specific standards ensured
- Linking of products, processes and quality documents
- Supports parallel processing of projects
- Supports change documentation



## Non-conformance management

Our non-conformance management solution helps you to profitably exploit the potential of your complaints. Automated workflow definitions help you to identify and eliminate problem areas and to comply with standards requirements. Flexible evaluations and integration into existing ERP systems also facilitate more extensive analyses of your business processes.

### Expected added value through the use of our software:

- Time savings of 20% in processing measures
- Up to 90% less work required when creating measures
- Time savings of around 90% in the preparation of supplier complaints

### The advantages of the “QDA SOLUTIONS Non-Conformance Management solution” at a glance:

- Supports the continuous improvement process
- Integration of different workflows for complaints
- Improved communication and escalation
- Consolidation of all relevant complaint data and documents
- Control your quality costs
- Customised 8D reports
- Flexible evaluations and PPM analyses
- Complex multi-level non-conformance management



## LIMS (Laboratory Information and Management System)

The laboratory information and management system optimises the laboratory workflow, significantly reduces manual work and avoids incorrect entries. The entire laboratory workflow is supported – from receipt of laboratory data to the automated creation of test certificates. Even tests from ongoing production can be integrated. This frees up resources for the constantly growing number of tasks in the laboratory.

### Expected added value through the use of our software:

- Total time savings of about 35%
- Time savings of up to 50% when creating new test plans
- Time savings of up to 50% when creating LIMS orders
- Time savings of up to 75% when creating certificates or laboratory reports

### The advantages of the “QDA SOLUTIONS LIMS solution” at a glance:

- Optimised laboratory processes
- Significant cost savings thanks to automation
- Integration with your production and business systems, ERP, MES & QMS
- Management of systems, costs and human resources
- Integration of test equipment, from legacy systems to the latest equipment
- Sample management
- Support for metallurgical, chemical and mechanical laboratories
- Support of release, acceptance, and validation processes
- Central definition of internal company and norm related test standards
- Analyses and evaluations

## Measurement and test equipment management

Our measurement and test equipment management solution optimises your measurement technology processes. Cost control, traceability, MSA, optimisation of measurement workflows, and integration with other QDA products ensure compliance with standard requirements.

### Expected added value through the use of our software:

- Reduction of service, maintenance and monitoring costs by about 20%
- 100% assurance that only valid, calibrated test equipment is used for measurement
- Reduces the time required for creating calibration lists, tracking, etc. by up to 80%
- Time savings of up to 90% for tracking missing test equipment/late calibrations

### The advantages of the “QDA SOLUTIONS Measurement and Test Equipment Management solution” at a glance:

- Automated calibration procedures
- Includes standard templates for calibration
- Traceability from the measuring instrument to the measurement
- Direct measurement interfaces
- Measuring equipment and tool output management
- Optimised calibration intervals

## Document management

The document management solution manages all existing documents in your organisation. It standardises and secures the document approval process, maintains keyword lists and helps to categorise documents in accordance with standards. All released documents are immediately available to everyone on the intranet or internet.

### Expected added value through the use of our software:

- Find documents twice as fast
- Reduction of about 30% in the amount of work required to create documents thanks to the use of templates
- Reduction of up to 20% in document release waiting times
- Time savings of up to 20% when approving new document versions

### The advantages of the “QDA SOLUTIONS Document Management Solution” at a glance:

- Controls and manages your existing documents
- Access to dynamic content via the web portal
- Compliant with ISO/TS 16949, ISO 9000 ff, VDA, ISO 14001
- Ensures your documents are up to date and available
- Integration of all Windows file formats without the need for prior conversion
- Incorporation of documents from production and the quality management system
- Automatic generation of keywords

Do you have specific questions about how to take your production to the next level?

Get in touch →