

Holistic quality management in car body construction

# BODY SHOP MANAGEMENT SYSTEM FOR MAXIMUM PRODUCTION EFFICIENCY

The number of variants in a given model series in the automotive industry has been growing steadily in recent years, and has been getting a significant boost from e-mobility. Pure electric cars, hybrid models and all other combinations up to gas and fuel cell drives increase the number of variants by a factor of 10 to 30 together with classic drive forms. This puts new demands on the simplified and optimized maintenance of master data.

In the future, it will be even more important to be able to exchange information on targeted optimization measures in the world of joining technologies on a graphic basis. It will be equally important not only to generate quality and productivity KPIs based on model series, but also to be able to provide information about each individual variant. Despite the different variants, there are still many similar parts and components that are used many times. In order to meet exactly these complex requirements, the QDA Body Shop Management System was developed by our product provider QDA SOLUTIONS.

## For vehicle production in flow

With our software solution, it is possible to centrally manage multiple points, components and entire assemblies while still making them visible in any number of variants. All this is graphically supported in order to make the increasingly difficult discussions of increasingly complex parts in an international environment possible in the first place. This can compensate for the considerable increase in maintenance effort due to the exploding number of variants.

The Body Shop Management immediately increases quality in production across all quality loops and reduces costs by using inspection technologies directly along the production line.

It combines various assembly and inspection technologies that allow you to visualize and analyze process data alongside the associated quality data. This enables a precise root cause analysis in a single central system – independent of any of the decentralized sources.



## Maximum optimization of your vehicle production line with Body Shop Management








Compared to manual data collection, QDA Body Shop Management can reduce inspection costs by about 40% and demonstrates increasing information flow. The costs for rejects can also be reduced by about 20%, due to the fewer production errors.

## 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 "Citrix ready".

Our software provides integrated application security through user role definition and management. Active directory support provides seamless integration with 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. 256 Standard, ebenfalls eingehalten.

## OVERVIEW OF THE ADVANTAGES OF OUR BODY SHOP MANAGEMENT SOLUTION

-  Consolidated master and measurement data
-  Significant reduction of inspection costs
-  Possibility of interaction with welding robots
-  Automated convergence of graphics and data
-  Integration into the quality workflow
-  Dynamic test planning from process data
-  Problem-free management of large amounts of data

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