Q-DAS

Statistical Software

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- **Data collecting from measurement machines**
- **Management of online statistical alarms**
- **Centralized data management**
- **Customized reports**
- **Statistics**

## Introduction

The solution implemented by Q-DAS SRL, based on the nucleus of Q-DAS products properly configured and integrated with specially developed packages to meet the specific quality of BIW (body-in-white) needs of each area, allows the automatic collection of measurement data performed in Body Shop, Press Shop, or in the Metrology Lab. using 3D coordinate measuring machines or other devices (Gap and flush, Torque, etc.) with the activation of online statistical alarms. This data is stored (either automatically or with confirmation of the operator depending on configuration) in a centralized database (plant database). From this unique and standardized data source can be performed quickly and easily queries to calculate capability indexes for a specific model of car divided by subgroups of key characteristics. In this way the generation and submission of reports becomes fast and secure having already all available data collected directly from the field. The system is available in 22 languages including Chinese, Japanese, Korean and Russian.

## Data Flow

From values to reporting. The package, thanks to the direct experience on this field, allows to manage easily the big amount of data from the automatic measurement machines with the reports to satisfy high quality requirements. The **Q-DAS** solution is open and accepts input via ASCII protocols.
**It is independent of the measurement system used and handles data from any Coordinate Measuring system**
(DEA, Perceptron, Zeiss , LaserGauge and Mitutoyo to name a few).

# Key advantages

The main benefits immediately appreciated introducing the system are as follows:

**a** Have a common software for all plant used to make statistical analysis of data coming from different measurement systems and able to meet different requirements on computing (i.e. Body Shop, Press Shop, etc.). One

**b** Replacing of old or general purpose applications that don't handles data security policies as required by company guidelines (i.e. MS-Excel spreadsheets).

**c** Making available real time statistical reports with the application of advanced filters which can be created easily by users having rights.

**d** Data homogeneity thus avoid that each plant provides data in different electronic formats / paper significantly different from each other. Better data management ensures uniformity of communication in order to drive efficiency, cost and quality optimization. The centralized database manages collected data from numerous sources and allows their streamlining and efficient organization.

## Data Presentation

The presentation of data is one of the most important activities and must be performed quickly and based on real data. Any users who as rights can generate reports or simply consult data having a connection to the central DB used by the system. Customizable reports pull in data from central database selection and present information in a clear intuitive format. The report designer, **Q-FMD**, lets you create custom reports to control the type of graphics you would like to see. The reports can be generated and dispatched automatically with the integration of additional tool **M-QIS** which can provide to the Top Management updated documents. A classic example is the preparation and delivery of quality reports for the weekly meeting.

## Scope of the System

The main scope of the system is the management of measurement data coming from automatic measuring machines along the production line or the metrology laboratories of Body Shop and Press Shop facilities to have, for example, a complete overview of wide dimensional quality for each car type. The software includes a specific MS-Windows service able to divide data from various tests in different centralized DB.
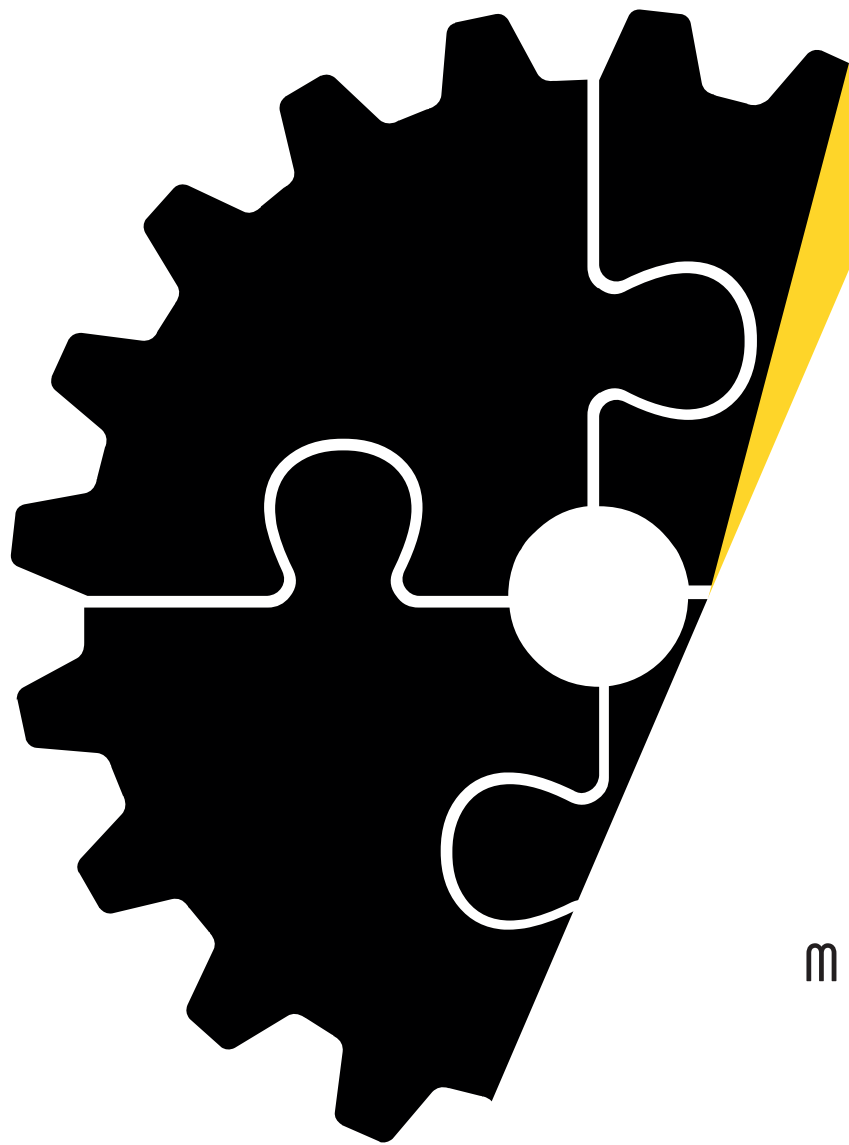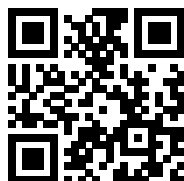
QUALITY
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