



AESA CORTAILLOD

Quality Management System

CIQ 3.0

The solution for automating quality processes
in the cable and conductor industry

FLEXIBLE

OPEN

EXPANDABLE

INTEGRATION OF DESIGN DATA

TEST PLANNING

DOCUMENTATION

STATISTICAL ANALYSIS

PROCESS CONTROL

COMPLAINT MANAGEMENT

INCOMING GOODS

WIRE DRAWING

WIRE MANUFACTURING

STRANDING

SALES SUPPORT

COST REDUCTION

Networking quality islands

Optimal exploitation of materials, while reaching, securing and documenting a superior quality level and keeping costs under control: all this is an easy task for CIQ 3.0.

Many of the machines used today in cable manufacturing are fitted with measuring equipment and a wide range of inspection technology is available in the factories. Nevertheless maximum benefit is only achievable if such "quality islands" are effectively networked.

CIQ 3.0 is the solution for the cable industry: it networks all measuring and testing devices into one common system and stores all acquired data in a central database. This enables all involved in the production process to have direct access to the process and testing data – in quasi real-time.

The result: optimal control of production, total quality documentation, reduced planning and testing effort.

Linking process and testing data

CIQ 3.0 has been specifically designed for the cable industry and it is familiar with its characteristics: length-associated measurement value acquisition; the most commonly used measurement and testing instruments; the great variety of electrical and mechanical testing procedures as well as the applicable standards and test specifications.

CIQ 3.0 establishes a link between the worlds of process and testing data as it captures online the data from all steps of the production chain, i.e. from the receipt of raw materials via input materials and the semi-finished stages through to the shipment of the finished products. Via data exchange with supply chain monitoring systems such as SAP it is integrated into all processes taking place in the works. This is the prerequisite for efficient use of the input materials and for high quality.

Reducing costs

CIQ 3.0 cuts testing and evaluation efforts and provides the basis for efficient production processes and optimized material use. In this way CIQ 3.0 saves material costs and reduces out-of-spec material. What is more, the investment budget is spared: existing hardware is used and interfaces for most of the measuring instruments commonly used in the cable industry exist already.

Networked quality management

ARMOURING

SHEATH MANUFACTURING

LABORATORY TESTING

FINAL INSPECTION

SHIPMENT

ISO 9001

ISO/TS16969

SIX-SIGMA

CIQ 3.0 reduces the “human” factor. The operator receives clear instructions online and is relieved of administrative activities.

Thus decisions are no longer subjective but have an objective basis: clear tolerance limits for measured values, clear pass/fail results.

Automatic evaluation

CIQ 3.0 enables evaluations by most diverse criteria. For example, the production manager may use the data to gradually approximate closer to the allowable limits in order to fully exploit existing tolerances.

The storage of data from all production stages and areas provides the quality assurance personnel with the necessary information to perform detailed weak point analyses and systematically identify existing problems.

At the same time CIQ 3.0 cuts evaluation costs because many evaluation procedures can be automated.

Quality documentation

CIQ 3.0 facilitates the establishment and maintenance of an exact and uniform documentation system. It generates documents such as reports, labels, e-mails and pdf-files. It also enables the tracing of data when individual results have caused a problem.

Optimization of processes

The archived data form the basis for a holistic, cross-plant analysis of weak points. This approach does not stop when the first “why” question is raised but is capable of finding the elemental cause of a problem. This makes CIQ 3.0 an integral part of continuous optimization.

Optimal production

By online capturing of process data and visualizing the measured values, trends can be recognized at an early stage during production and corrective action can be taken before any defects occur. This guarantees that only completely flawless material leaves the factory.

Capturing the data in quasi real-time ensures that whenever a machine resumes production after having been stopped for alterations it immediately resumes production of the same high-grade material as before, reducing start-up losses. In short: material utilization is more efficient.

Efficient testing

CIQ 3.0 makes many manual intermediate tests superfluous, as the process data are continuously captured. This reduces the testing effort and cuts cycle times. The result: higher machine throughput rates and cost savings.

Easy planning

CIQ 3.0 dramatically simplifies inspection planning because it automates many procedures. For example for similar products, CIQ 3.0 uses basic and product family inspection plans. This reduces the effort of manual data input. A comprehensive library of formulas based on international standards makes the generation of inspection plans much easier and more convenient.



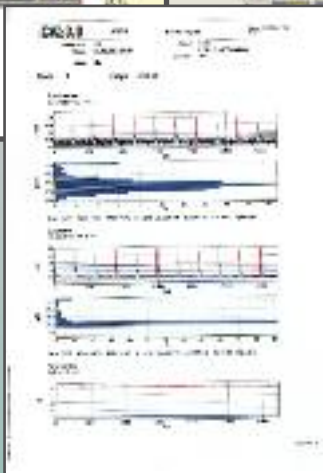
AESA CORTAILLOD

AESA CORTAILLOD is the leading provider of quality management solutions for the cable industry. Its product range comprises measurement instruments for electrical and mechanical tests as well as the integrated quality management software CIQ 3.0.

Today's AESA originated from two companies.:

- The Swiss AESA, founded in 1978, has its origins in the field of laboratory cable measurement technology.
- M.E.A. Mauf und Rudow GmbH was established in 1979 in Wipperfürth/Germany. Already in the 1990s the company set new standards in the cable industry with the development of dedicated software solutions.

PROCESS DATA ←
 → TESTING DATA



Products

The product portfolio comprises automatic measuring systems for telecommunications, data and energy transmission cables. In addition, AESA develops special applications within the CIQ 3.0, e.g. for type approval and laboratory tests as well as supervision systems for heating cabinets, bending testers and drag chain systems.

References

AESA's customers include world leading cable manufacturers such as Belden, Draka, Furukawa, General Cable, Leoni, Nexans and Prysmian.



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