

Press Facts

First Integrated Plantwide Use of Strip Quality Data

QuinLogic Quality Execution System is online at China's Shougang group

Software enables quality evaluation across several production stages and plant boundaries

Aachen, Germany, 19 July 2010 Shoudu Iron and Steel Group Company (Shougang) from P.R. China has implemented the QuinLogic Quality Execution systems for two sites. QuinLogic completed the project only three months after receiving the initial purchase order, covering the entire process from casting to galvanizing. Shougang now uses the QES for a 24/7 quality assurance of its production.

Shougang equipped two casters (two strands each) and a hot strip mill in QianAn works and a cold mill, a continuous annealing line and two hot dip galvanizing lines at ShunYi works with QuinLogic software.

With the QES software it is possible to handle and combine quality data from different process steps – until recently an unsolvable problem for many users. In addition, the innovative rule based quality certification module evaluates the compliance of the product with the customer's specification for all process stages.

The installation is based on central servers and exploits online data from iba databases, Parsytec, Cognex, Siemens-VAI and several Wonderware InSQL servers.

Shougang group is one of China's top steel producers and among the first to implement government requirements for improved steel production quality. To achieve a new level of quality control, Shougang's IT investigated innovative solutions and selected QuinLogic's QES for its best overall concept and future roadmap. Also the experiences gained at European mills were rated very positive. The objective was to implement a deterministic product quality certification for the entire process chain.

The entire solution was implemented in less than three months. This included the creation and verification of new quality rules as well as end-user training. Today, quality rules are entirely maintained and implemented by a team of Shougang quality engineers.

YanJun Huang (Member of the Board of Directors, responsible for IT):
"On June 22th exactly as planned, the QES went online. We are happy with the fast and smooth implementation. The QES absolutely meets our requirements. Especially the rule building with LogicDesigner exceeds our expectations. Many people got new ideas what else can be solved using the QuinLogic rules approach and therefore extensions are already on the way".

Hans Peintinger (Managing Director of QuinLogic): “Shougang’s requirements were the challenging in number of users, the complexity of the data environment and the short time to go live in production. But our QES has proven a tremendous scalability, reliable generation of quality certificates for every processed coil as well as a breakthrough in usability.”

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Caption:

Figure 1: The QES software handles and combines quality data from different process steps.
Filename: QuinLogic Shougang.jpg



About QuinLogic

The Aachen-based company was established in 2008 with the objective to make large volumes of complex measuring data useful for quality management tasks in the steel and aluminum industry, enabling decisive improvements in productivity. The company’s team of engineers has more than twelve years of experience in the field of surface quality and yield optimization.

Quinlogic cooperates with VDEh-Betriebsforschungsinstitut in Düsseldorf in the fields of data mining and defect diagnosis. It has developed software for rule-based decision-making, which – based on data from most different sources – guarantees optimal use of material.

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