

Maximizing yield from quality data

SURFACE INSPECTION Building on many years of experience in the practical use of quality data in steel and non-ferrous metals processing, newly established **QuinLogic GmbH** offers its customers innovative solutions for optimized production management. The company has developed a rule-based software programme capable of automating and objectifying the decisions taken to optimize the processing routes of products during the manufacturing process.

QuinLogic is also the first manufacture-independent provider of maintenance and optimization services for automatic surface inspection systems. Automatic surface inspection systems have become commonplace in the steel and aluminium industries. Like all measuring systems they must be serviced, i.e. the detection and classification parameters must be tuned by specialist personnel and adapted to changing requirements in order to provide reliable results at all times.

QuinLogic evaluates and optimizes inspection systems from various manufacturers. Having been into automatic surface inspection for many years and decisively determining the development of the technology, the company has the necessary know-how to optimize the surface inspection systems in operation in the works. They take advantage of their longstanding experience and practical work in surface inspection in steel and NF applications – from hot rolling through to the finish-coated strip.

Based on their experience in handling large amounts of

quality data and integrating them into the production processes, the QuinLogic team has adopted a new approach to optimized production management: A newly developed rule-based and easily configurable decision-making software enables comprehensive evaluation of the available quality information and makes suggestions as to the further processing route of the products. The idea behind this approach is the optimal use of all products even if individual quality criteria are not within the desired corridor. Typical questions could be for instance: “If it turns out that a strip is unsuitable for its planned purpose, how can I reassign that strip to a different purpose?” or: “How can I optimally use a strip which except for some shells in certain areas otherwise has a perfectly flawless surface?”

The QuinLogic software decides at each production step how to best further process the product. This decision-making process takes into account data from many different sources – sensor data, nominal and actual product properties, machine availability or data from databases and information systems. In each case the result is a harmonized, at any time reproducible decision that is based on clearly defined rules.

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