IN-LINE REAL TIME QUALITY CONTROL

Operational excellence driving quality and industrial performance



Your expectations

Challenged by the necessary upscaling of businesses and accelerating innovation and the need to upmarket, you are seeking to transform your business in order to strengthen your operational excellence.

To maximize your performance in terms of productivity and quality, while reducing your costs, Cetim's In-Line Real time Quality Control offer responds to several major challenges:

Ensure product conformity and increase customer satisfaction

Reduce scraps and associated costs

Ensure reliable production quality

Guarantee the repeatability of your controls

Ensure the product traceability

Deal with lack of qualified and skilled manpower

Increase production rate and avoid bottlenecks

Reduce your environmental footprint

In-Line Real time Quality Control is undoubtedly a strategic tool in this approach, enabling several important production features to be monitored and controlled, such as:

Presence or absence of a component

Appearance (defects, colours, etc.)

Metrology, dimensions and geometry

Functional defects (tightening, sealing, force, torque, etc.)

Chemical composition

Material health, treatments, coatings

Residual stresses

Defects characterisation (surface and volume)

Cleanliness, including particulate cleanliness

Our solutions



As a technological accelerator and innovation key player, we focus our skills on operational excellence in production.

Thanks to our R&D capability, we develop and deploy, as soon as possible, the best technological and organizational solutions, and support you to keep ahead on the most competitive markets

According to your production system maturity, our 360-degree approach support you on any step or the entire value chain:





Phase 1: Diagnosis

Assessment of the Quality and Control management system by means of an audit of production and control facilities and a documentary inspection of the products.

Identification of the cause of non-conformity, if any, and assessment of its cost

Phase 2: Industrial organisation enhancement

Support for problem solving

Document analysis reviews (P-D-FMEA, etc.)

Processus operation evaluation and quality maturity assesment

Improvement recommendations

Phase 3: Product design optimisation

Product analysis to identify control failure

Advice on product design and sizing to enable production control

Phase 4: Technical and economic feasibility

Measurement method selection, standard or tailor-made, according to the customer context Validation of the method's suitability with the production line conditions

Phase 5: Definition of the solutions to be implemented

Technical specifications

Suppliers recommendation & sourcing

Phase 6: Qualification of selected solutions

Equipment procurement

Design/selection of reference parts to test the method based on the identified nonconformity

Phase 7: Solution integration and industrialisation

Support for integration and industrialisation in series production conditions

Phase 8: Train your staff

Testing method implementation

Machine usage and maintenance

Phase 9: Follow-up audit

Look at inspection and histories to see how we can improve the technology and use the most up-to-date systems.

Discover real-life cases on video

Quality control of welds

NDT Defectology

Artificial intelligence-assisted magnetic particle inspection

Your benefits

Tailor-made support and recognised expertise

When you call on Cetim to support you in your projects to automate your on-line controls, you will benefit from:

20+ years of experience, covering expertise in industrial organisation, inspection, testing and mechanical data analysis

More than 70 experts with multi-disciplinary skills and multi-sector experience, specialised in testing and measurement

The expertise of more than 40 COFREND level 2 and 3 and COFFMET-certified inspectors

A player in standardisation and regulatory bodies in France and internationally

A neutral and impartial technical centre





A unique R&D capacity with industrial and academic partners network

Quatrium® platforms with a wide range of equipment to de-risk your projects and validate your solutions

Discover Quatrium equipment on video in a dedicated Playlist which is constantly growing on our Youtube channel ... Dimensional control in production, welding monitoring by infrared thermography, automatic defect detection by fluorescent magnetoscopy, automatic aspect control....

