

Expertise: Production Development, Digital Solutions

Industries: Life Sciences, Food & Beverage

Vision platform CQV in the food industry – a tailored automation solution for manufacturing



Overview of the partnership

Partners: Göteborgs Kex and Consat Engineering
Objective: To ensure product quality with a flexible and tailored vision system that measures, sorts, and provides real-time production control.

Using Consat's proprietary CQV platform, Göteborgs Kex has automated the quality control of its Ballerina biscuit production – ensuring every biscuit meets the mark.

Göteborgs Kex needed a solution that could inspect every single Ballerina biscuit in real time – from filling level and diameter to orientation on the line. The answer was CQV: Consat's robust and flexible vision system, easily adapted to their unique production setup.

A pragmatic partner

The collaboration was defined by close partnership, where Consat combined deep technical expertise in vision and automation with the customer's production-specific requirements. Thanks to the CQV platform, a solution was quickly customised, implemented, and taken into operation – without compromising robustness or user-friendliness.

Challenge

Overfilling and other quality issues in the Ballerina line were affecting packaging and efficiency.

Solution

A bespoke CQV system that inspects every biscuit and rejects faulty items in real time.

“The most rewarding projects are the tough ones – when a customer comes to us with a real challenge and we get to design the entire solution from scratch.”

Martin Lundh, Project Manager, Consat Engineering

The challenge

The Ballerina production lines faced a recurring issue: excess filling in the biscuits made it impossible to seal the packaging properly. A high-speed, high-precision system was needed to measure biscuit height, diameter, cracks, and orientation.

The solution

Using CQV, Consat developed a bespoke vision solution for real-time inspection. The system checks each biscuit, detects defects, and removes non-compliant items before they reach packaging.

CQV's flexibility enabled the delivery of a one-off solution at a competitive price – ideal for the single-line production at Göteborgs Kex. The same system is now in use across other industries and continues to evolve.



Key outcomes

- Real-time quality control for every biscuit
- Fewer rejects and production stoppages
- Greater reliability in packaging
- Scalable solution for future needs

Summary

- Göteborgs Kex needed to solve quality challenges on a high-speed production line.
- Consat built a flexible vision solution based on CQV.
- The result: improved reliability, reduced waste, and safer packaging.
- The platform is ready for further development and broader application.

The result

With CQV now operational, Göteborgs Kex has full control over each biscuit on the production line. The flow is more reliable, waste is reduced, and each package meets quality standards.

“We have an extensive toolbox – but CQV’s flexibility is what really makes the difference in applications like this.”

Martin Lundh, Project Manager, Consat Engineering

Value-driven innovations

CQV exemplifies how Consat Engineering takes full ownership – from initial needs analysis to final implementation. The platform continues to evolve and is already used in various applications including pharmaceuticals, component verification, and potentially for third-party machine builders. The long-term goal is to offer CQV as a licensed product for external integrators.

Contact us

Interested in exploring how Consat Engineering can support your operations with vision systems and tailored automation? Contact us today – we’d love to tell you more or book a meeting.