



CodeIT always work together with customers as a team. Here at the Control Room at the Cermaq Smart Factory salmon processing facility at Steigen in Norway

Connected

INDUSTRY

S O L U T I O N S

CodeIT designs, develops and deploys world class solutions for mission critical industrial tracking and traceability, and production automation. Inside Food & Drink delves behind the scenes of this leading Norwegian integrated solutions provider, highlighting two of the company's many successful projects.

With over 20 years' experience with critical business applications in many types of industries, CodeIT's highly qualified support team are known for their high level of engineering expertise and their ability to help achieve rapid and successful guidance, maintenance, installation and support solutions, including both hardware and software.

You only have to refer to two leading names in their respected fields - Cermaq and Trondhjems Eskefabrikk - to clearly see the positive impact CodeIT can immediately have on production processes.

Cermaq is one of Norway's largest food producers. In 2018, the company produced 1.1 million healthy and sustainable salmon meals every day, sold in more than 30 countries. That same year also saw the company open a state-of-the-art processing plant in Steigen, which utilised CodeIT solutions.

"When you buy fish, you want to know where it comes from and what quality it is and you want it as fresh as possible," said Ståle Slemmen, Logistics Manager, Cermaq Norway.

The objective at the new factory in Steigen was to gather all of Cermaq's processing capacity in Nordland in one flex-

ible and future oriented factory. It placed great focus on smart technology and open systems, and as such, chose a joint solution from CodeIT and food processing machinery company Baader. Baader was selected as the main technology partner for the greenfield Cermaq plant in Steigen. The CodeIT solution added additional smartness and functionality.

Smooth integration

"They offered technology for production, traceability and labelling that can talk to our other systems," explained Mr Slemmen. "High levels of automation improve produc-

tivity, flexibility and quality. CodeIT software communicates with our processing lines.

“Production, customer orders, inventory and capacity information are coordinated through CodeIT, ensuring an efficient flow from the moment fish arrive all the way through to finished pallets ready for transportation to our customers. It requires reliable information and full traceability. Baader’s process data and CodeIT’s labelling and traceability solutions gives us this.”

According to Inge Stenvoll, Senior Sales Engineer, CodeIT, consumers want to know an increasing amount about the food they buy.

“They want food that is fresh, tasty, nutritious and safe. This places huge demands on processes to ensure effective and correct identification and traceability,” he said.

“GS1 global standards makes it possible to ensure traceability through the entire supply chain. Increased automation, better processes and greater accuracy reduce the time taken at each step in the supply chain. This is especially important for fresh fish.”

Working to a philosophy of always aiming to understand the whole process, CodeIT then looks at how it can integrate tracking and other processes into the production flow as lean as possible.

Traceability from box to customer

At the Cermaq’s Steigen factory, CodeIT supplied its core service, known as CodeIT Enterprise, which receives data from sources such as packing systems and sensors. Data from CodeIT Enterprise coordinates production for optimised use of machines and equipment.

“The contract challenged us to expand our services to include not only downstream

“Improving the efficiency of your production processes with CodeIT could be a no-brainer”

processes but also a comprehensive solution for the integrated fish box manufacturing facility,” explained Mr Stenvoll. “CodeIT provides each box with a unique ID when the box is being made. Thereafter, boxes are available for the packing room. Here, the individual tare weight is captured.

“After filling the box with fish from the Baader grader, the EU-approved CodeIT Legal Print scale service captures and calculates correct net weight. The unique box ID is linked with a sales order. The order defines the amount of ice and number of box straps needed. The multi-language customer label according to the international standard contains among others weight, quality and origin of fish. Our solution uses GS1 standards for the labels used for identifying the fish boxes and for the pallets. This enables the salmon to be traced through the entire supply chain all the way to the consumer.”

Digital production support system

Trondhjems Eskefabrikk may be regarded as Norway’s oldest folding boxboard manufacturer, but it is also one of the most future facing in its industry, thanks in no small part to CodeIT.

The company, which supplies packaging predominantly to the food sector, recently invested in a digital production support system. The project required

integration between the CodeIT Enterprise Digital Control System and the company’s IT systems, as well as the installation of PLC-controlled sensors in all the production equipment.

“The result was a modern digital infrastructure embracing all areas of the business, from raw material warehousing to finished delivery, with CodeIT Enterprise as the hub of the system,” stated Trondhjems Eskefabrikk CEO Tore Brekke Olsen

Trondhjems Eskefabrikk has also completed the implementation of a new digital control system, where CodeIT, as the supplier, built a customised system for real-time integration between the order system (IBM iSeries) and the time registration system, and supplied applications and a database for production follow-up and inventory management. CodeIT also fitted PLC-controlled sensors in all the production equipment and integrated these sensors directly with the CodeIT database.

“In the past, we’d catch deviations well after the event, whereas now there’s only a five-second delay from an incident occurring to it being flashed up on a big screen in my office,” highlighted Mr Olsen.

For over two decades, time and again, CodeIT has connected customers’ existing business with enhanced manufacturing and automation prowess. The company is a strong believer that the true power of Industry 4.0 and SmartFactory lies in every single company’s ability to be flexible and scalable.

Regardless of your company’s end product, improving the efficiency of your production processes with CodeIT could be a no-brainer. Offering payback from day one with CodeIT Enterprise is much more than pure fantasy. It’s a fact. ■



Inge Stenvoll Senior Sales Engineer

A graphic with an orange background. At the top is the CodeIT logo, a stylized 'C' with a dot above it. Below the logo is the text 'CODE IT' in white. Underneath that is the slogan 'We always work with customers as a team' in white. At the bottom, there are two icons: a telephone handset and an envelope, followed by the phone number '(+47) 22 10 73 80' and the email address 'post@codeit.no'. At the very bottom, the website 'codeitworldwide.com' is written in white.

Leverage your data. Generate value and drive growth.

- with versatile traceability solutions & production automation from CodeIT.

CodeIT Enterprise™ is a state-of-the-art, total solution with product and supply chain traceability at the core. It is designed to enhance production and increase business performance at companies in, amongst others, the food, fish, wood, manufacturing, and general industry sectors. It provides full scalability and full flexibility. It is integration friendly with all ERP, MES and WMS systems. It is used by leading producers around the world, connecting 50,000 devices on over 2,000 production lines so far.

CodeIT eMRB® is a state-of-the-art, total solution. Designed for superior, fast, and cost-effective documentation traceability. It is an ingenious, fully scalable, cloud-based solution that automatically validates and links all fabrication and production documentation digitally. It is used by leading companies in, amongst others, the energy, engineering, aquaculture, and general Industry sectors.

The CodeIT Group has offices in Norway, Sweden, and Vietnam with some very ingenious people that have put together some very ingenious solutions. With traceability always at the core, CodeIT develops and delivers better ways to leverage data in production, to solve clients' problems and generate value and drive growth. CodeIT has over 20 years experience with critical business-applications and is trusted and relied on by forward thinking companies in many different industries around the world.

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