COMARCH

DITZLER

Industry 4.0 solutions can be applied to various cases including heavy industry, automotive and aerospace, but also to companies that produce food. Our client is Louis Ditzler AG - a Swiss company from the FMCG industry producing frozen vegetables and fruits. The specific requirements of the FMCG Industry involve maintaining high quality of manufactured goods and constant access to production data. Therefore, a comprehensive solution had to be implemented to meet the client's needs.

THE CHALLENGE AND CLIENT NEEDS

At Comarch, we create tailor-made solutions according to the needs that the client presents to us. To meet the needs of Ditzler, we identified several areas that needed to be modernized and optimized with specific products and services.
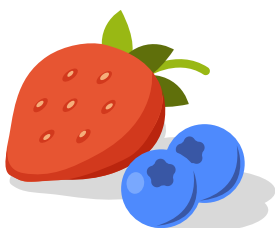
- OEE calculation - to keep the overall equipment efficiency indicator at a high level
- Production monitoring – to obtain real-time data from production lines in a reliable way
- Digitized production reports – providing environmentally friendly and automated real-time data by giving up on paper documentation
- Integration of label printers with ERP – to transfer label data from the ERP system through the software which generates product labels, and then finally to the label printers on the production line

COMARCH'S SOLUTION: HOW IT WORKS?

To meet the challenge, we implemented a comprehensive solution consisting of different Comarch hardware and software products, including **ERP CEE, BI Point, MES Industry 4.0, IoT Hub and IoT Platform.**

The process begins at the stage of tracking the origin of the raw material that arrives at each production line, which is done through the ERP system. To collect the data from production lines equipped with dashboards and Ishida checkweighers, we use IoT Hubs in waterproof enclosures (as retro fitting Gateways). Ishida checks both the weight of product bags and the presence of metal within them. By connecting to the IoT Hub, it is possible to transfer the collected data to the IoT Platform and then to the MES Industry 4.0 application.
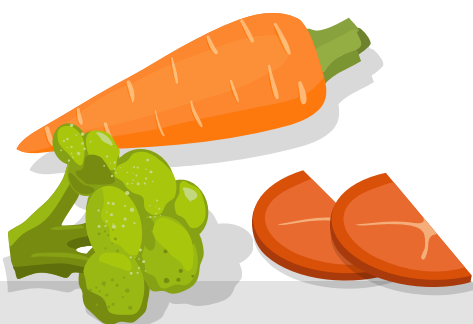
The application allows you to examine which bags are OK and which bags are NOK. This information is then transferred to the BI Point, which is responsible for their thorough analysis.

Thanks to integration of the ERP system with the label printing software NiceLabel, we have fully automated the labelling process. Now, based on the collected data, labels are generated and printed on the appropriate product.

Master Data

ERP

Bi

COMARCH IOT PLATFORM

Online Dashboard

Packing machine and weigher

Label Printer

1.

2.

3.

BENEFITS OF THE DEPLOYMENT

- Up to 100% ROI within 2 years
- Paperwork elimination with the use of automated BI reports
- Real-time monitoring and analysis
- Automation in the process of generating labels via the ERP system

REFERENCES