

SECTOR

Developed from a local butcher in the nineteen sixties to a snack giant within the Belgian and Dutch markets. Sustainability and a reduction in energy is one of their business pillars for reducing the impact on the environment. Their aim is to produce as little waste as possible within a production process, to carefully process the wastewater and to adopt a 'first time right' approach in relation to the execution of all processes.



CHALLENGE

Following a successful test clean for a specific pollution problem which the previous supplier hadn't been able to satisfactorily solve, the company decided to move across to Tensio.

A Customer Service Agreement was drafted at the start of our collaboration, within which their requirements were translated into SMART KPI's:

- 1.) improving the foam quality
- 2.) reducing the cleaning time by 20%
- 3.) maximum water efficiency during cleaning process
- 4.) an unchanged annual price for the chemicals

SOLUTION



RESULT

- The foam quality has improved since the changeover and the system is more reliable.
- The time required to **clean the entire line was reduced by 33%** thanks to the gyro freezer adjustments. Shortening the procedure resulted in a **financial gain of 16.128 €/year**, without taking the **released production time into account, which resulted in at least another 3.000 €/h**.
- Improving the boiling procedures for the fryers also resulted in a **production increase of 8%**, which translates into approximately 2.600 € of profit.
- The **use of dosing units** resulted in another **extra saving of 2.150 €**.
- A joint **water saving of 0.5 m³/T** of finished product was achieved.
- The objective of an unchanged **annual chemicals price** compared to previous years was even exceeded by **realising a saving of 12.107 €/year**, thanks to the implementation of the previous cleaning processes. The Tensio products were found to be an **impressive 26.5% more economical** compared to their previous supplier.
- The drafting of a **Master Cleaning Plan** and the implementation of our online reporting system **Tensio eServices** have helped to validate the cleaning and can therefore raise the result up to a higher level.
- Assistance with new projects through our proactive thinking and expertise, which contributes to a more efficient startup.

A PFT90 mobile foam unit was made available for **improving the foam quality**, where it was proven that the foam quality was considerably better than with the current system. A LP4 foam unit was also used at a later stage, as an alternative instead of expensive adjustments to the current central system. These foam units can be used independently from the central units.

An important **time reduction** was realised in relation to the CIP cleaning of the gyro freezer, which represented a bottleneck in the line's downtime. The CIP programme was followed up and adjusted, partly as a result of contact with the manufacturer. Further optimisation was even made possible by adjusting the flow rate of the CIP pump to the spray nozzles, controlling several zones at the same time, resulting in an additional time reduction of 2%. The total time was reduced by another 5% by increasing the speed of the transport belt.

'Training on the floor' was provided for all operators, specifically focussing on **maximum water efficiency**. The previous pre-rinsing was far too extensive. The result was at least as good with the introduction of foam at an earlier stage. The gyro freezer's CIP programme was adjusted with a water saving of 130 m³/year.

The dosing units on the cutter car wash and the crate washer were applied in such a way that the dosage was always correctly carried out. Contrary to the working methods of the previous supplier, the change costs and extra maintenance costs are now no longer required.

The **switching of cleaning products** went well and problem-free via like-is-like, with the required assistance, training, documentation and overview sheets.

