

Fruit juice manufacturer optimises efficiency in production using products from Minebea Intec



A company from the beverage industry wanted to optimise the statistical fill quantity control and wanted a future-proof, local software solution for this. Their requirements were exceeded using SPC@Enterprise and the bench scale Combics.

Key facts

The weighing system previously being used for the fill quantity control was no longer technically up-to-date. The precise Combics scales and the SPC@Enterprise software guarantee the checking and evaluation of filling, and the hassle-free documentation for compliance with the German Packaged Goods Regulation. This increases both efficiency and process reliability in equal measure.

Application

Using the industrial scale Combics 3 and the software SPC@Enterprise, checking of filling can be carried out easily and intuitively as part of predefined checking routines: standardised, needs-based, documented and paperless.

Products

- SPC@Enterprise 4.0
- Three control stations with complete scale Combics 3

Customer benefits

- Intuitive operation of the checkweighers
- Improved process performance
- Statistical monitoring ensures increased efficiency
- Highly precise measurement results for greater accuracy



The customer

The family-owned business 'becker's bester', founded in 1932 by Bertha Becker, is a medium-sized fruit juice manufacturer with a long history whose production has been CO₂ neutral since 2020. With an output of 46 million litres per year, the company is one of the top ten juice producers in Germany and has long been an established name synonymous with quality for many customers.

Project goal and implementation

beckers bester wanted to replace the single-workstation solutions for the statistical fill quantity control with an efficient, networked statistical control. In order to best combine the various aspects of sustainability (ecology, economy and social responsibility), the company opted for a completely paperless solution.

The new system therefore had to be able to process various types of packaging including glass but also bonded drinks cartons. At the same time, it was important that the user gained optimal transparency of the filling process, without have to physically remain at the relevant workstations in order to react quickly to any deviations. The SPC@Enterprise solution from Minebea Intec met all these requirements and the company's production is now also in good shape to meet future challenges.

For pre-packaging checking with static checkweighers, samples are weighed manually. The measurement data is assessed in

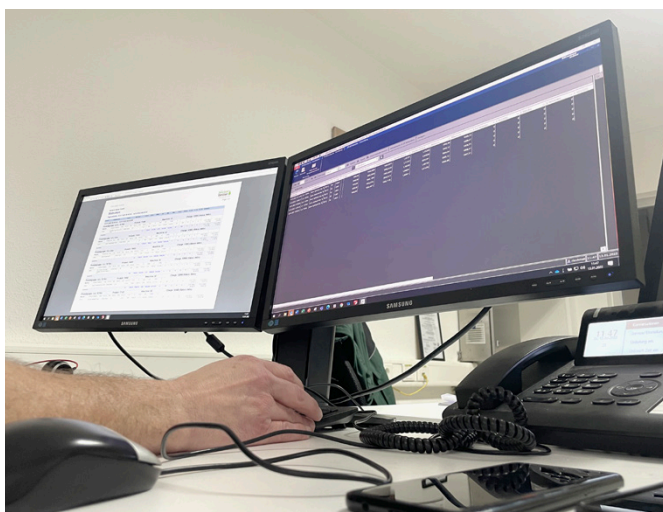
SPC@Enterprise, documented and stored in the MS SQL database. Workflows for checking routines can be created centrally for all control stations and operating processes can be adapted according to individual requirements.

“With SPC@Enterprise, the tedious local process of checking and the maintenance of master data on paper is no longer required. The filling process can be easily checked on the PC – all the values can be accessed online. The combination of the industrial scale Combics and SPC@Enterprise enables us to achieve improved efficiency in production and creates possibilities for cost savings.”

*Thomas Riechmann,
Quality Management, beckers bester*

In the future, beckers bester is planning for the master data for the inspection plans and inspection orders to be transferred from the central master data system. SPC@Enterprise is therefore already installed with the relevant interfaces to enable product data such as net weight, density data and operator information to be transferred from the central ERP system.

This connection will mean that master data maintenance will no longer be required. Based on the imported data, SPC@Enterprise calculates the relevant limits using the target weight and the tolerance system as defined in the German Packaged Goods Regulation.



SPC@Enterprise facilitates easy and central monitoring of production.



The user interface of the terminal scale Combics 3 enables intuitive operation.



Interested?
We would be happy to provide you with a quotation!
If you're interested, please email:
sales.industry@minebea-intec.com

Minebea
intec
The true measure



www.minebea-intec.com