

Industry 4.0 increases productivity by 15%



Tradition meets high tech: Bizerba solutions in the jam production of Alfred Faller

The challenge

The Alfred Faller manufactory produces premium jams traditionally stirred by hand in a copper kettle. Elsewhere, manual processes are less welcome at Faller. These are, for example, the documentation of production

manager at Faller: "The old system demanded a lot of time and was prone to errors. We wanted to achieve optimal data transparency and a machine utilization of 75 to 80% through networking and digitization."

glass surfaces are refined, a suitable printing process was found where the imprint adheres securely and does not become illegible even when the jar is washed later. When feeding the empty jars in the production line, a consecutive barcode ID is printed on each jar. The printed code is scanned for inspection, the empty jar weighed on a checkweigher and the result written in a separate database.

»We are consistently transforming to Industry 4.0, networked and with transparent data.«

Thomas Kessler

IT-Leiter

data or random manual quality gates. Due to high competitive pressure and increasingly stringent requirements – keyword HACCP – Faller strives for optimized efficiency and traceability. Therefore, the company implements a comprehensive new quality management system. Thomas Kessler, IT

Unique ID for each container

Faller operates one production line for cans and one for jars. The jars have different tare weights which have to be documented individually per jar for check according to prepack regulation. A barcode ID is printed on each jar bottom for this purpose. Since some

Automatic ejection in case of an error

After blowing out the jars, they will be filled. A metal detector checks them for foreign bodies and a rejection system ejects contaminated products. Contamination-free jars are sealed. On a second checkweigher, the barcode is scanned again. If the barcode is not readable, the jar is automatically ejected. If the barcode is readable, the database provides the matching



Food safety through automation: Bizerba Inspection system

barcode ID with tare weight. The checkweigher receives order number, article, lid weight and nominal fill quantity from the QM system. The individual tare weight of the jar forms the basis for exact checking of the nominal fill quantity according to prepack regulations. Over or underweight jars are ejected. The Bizerba app BRAIN2 Capture transfers the data to the QM system.

One ID – all data

For the can production line, a light sensor activates the scanners on the checkweigher. Since cans can turn around on the belts, four scanners allow an all-round view on the laterally printed codes. Non-readable cans will be ejected. For the readable code the QM system provides the related order number and article number.

The ID together with the order number, article number and weight will be transferred to the QM system.

Further digitization planned

IT manager Thomas Kessler has achieved what he wanted: "Today we know exactly from each single SKU (stock keeping unit) what it contains, where it is located within the process or to whom it was delivered. And if need be, targeted recalls can be carried out. This is an essential concern of retailers." The next transformation at Faller is already being planned: Shipping shall be optimized. Also here, Bizerba is on the supplier list as a potential solutions partner.



The customer at a glance

Konfitürenmanufaktur Alfred Faller GmbH in Utzenfeld/Black Forest is a third generation family-owned business. Faller manufactures according to artisan tradition and also processes large quantities of fruit from the neighboring regions of Kaiserstuhl and Markgräflerland.

- Founded in 1913
- 80+ employees
- 1,600 t of jams per year

Technical details

- **Bizerba Hardware:**
 - 2 x CWEmaxx 1500,
 - 1 x CWEmaxx 15000, 3 x iS30,
 - 3 x iL Economy 300F/SP,
 - 1 x metal detector
- **Bizerba Software:**
 - BRAIN2, BRAIN2 Capture,
 - Custom PC application software for system-supported, automated tare and gross weighing of jars

www.fallerkonfitueren.de

The challenge

- New installation of a hardware and software solution
- Optimize traceability
- Transparency and productivity
- Networking with the existing QM system
- Compliance with fulfill legal requirements

Solution

- Checkweigher for determination of tare and gross weights
- Metal detector and rejection systems
- Networking with the QM system through BRAIN2 and BRAIN2 Capture
- Integration of printers and scanners in order to print and read barcode IDs on jars and cans

Result

- Productivity increased by 15 %
- Increased process reliability
- Less errors
- Time saving

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