

INSPECTION SYSTEMS

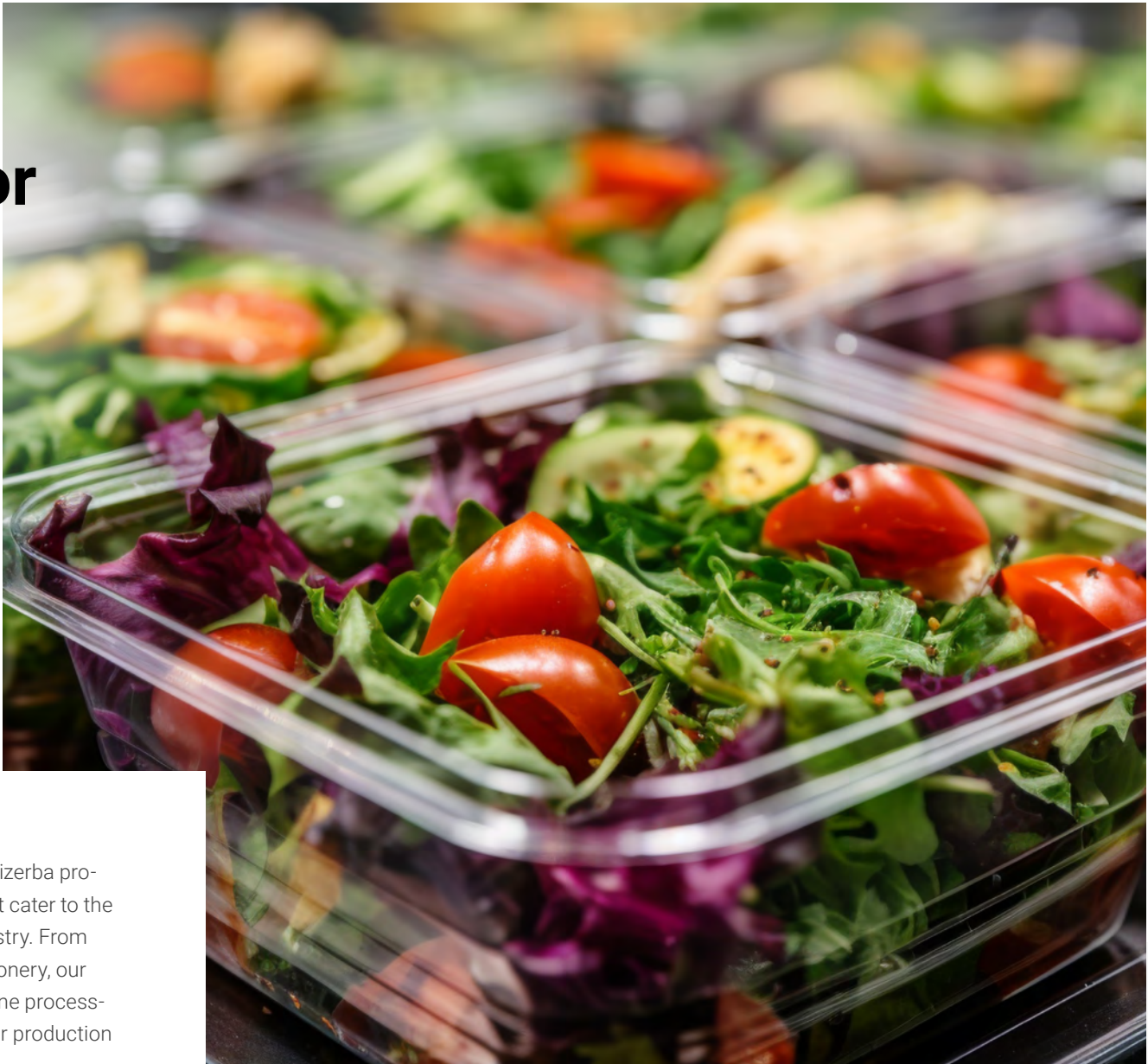
—
**Ensuring
quality at
every stage**



BIZERBA

INSPECTION SYSTEMS

Unique solutions for your products



With over 150 years of innovation, Bizerba provides inspection technologies that cater to the unique demands of the food industry. From ready meals to dairy and confectionery, our systems enhance safety, streamline processes, and reduce waste. Discover how we can make your production safer and more efficient.



The right inspection solutions for every food category

- ✓ Convenience & soups
- ✓ Baked goods
- ✓ Confectionery
- ✓ Beverages
- ✓ Pet food
- ✓ Breakfast products
- ✓ Baby food
- ✓ Snacks
- ✓ Sauces & spices
- ✓ Pasta
- ✓ Additives
- ✓ Tobacco
- ✓ Frozen food
- ✓ Food supplements
- ✓ Meat & sausage
- ✓ Fish & seafood
- ✓ Dairy products
- ✓ Fruit & vegetables
- ✓ Fresh ready meals
- ✓ Rice, nuts & cereals

International compliance

The basis for all guidelines is the **Codex Alimentarius**, which combines internationally recognized standards, guidelines and procedures. There are also guidelines such as the European Commission's **General Food Law** and **HACCP**. Even stricter requirements are set by parts of the trade and private sector quality programs such as **IFS**.



Facts, please

15 %

of food recalls in 2023 in Germany are due to foreign body contamination¹

2066

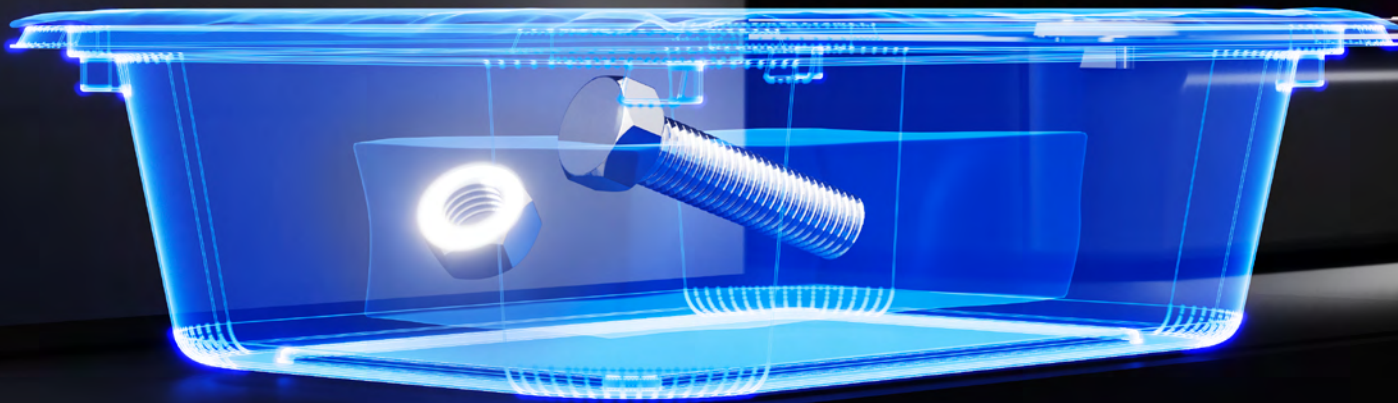
recalls were reported in the USA in 2023 alone²

65.000

Violations found during official food inspections in Germany³

30 million \$

The average cost of a single food recall in the USA⁴



PRODUCT SAFETY

Product recalls jeopardize growth

Defective products, packaging errors, foreign body contamination, and inaccurate labels or weights – these issues are often missed during manual spot checks, leading to severe consequences:

Reputational Damage with both B2B and B2C customers. Legal and Financial Risks such as product liability lawsuits, fines, and contractual penalties. Operational Disruptions caused by tracing, troubleshooting, and increased insurance costs. Sustainability Challenges due to waste from rejected products and packaging.

Such setbacks can derail growth plans. Fortunately, Bizerba inspection systems provide automated, reliable solutions to eliminate these risks, ensuring safety, compliance, and peace of mind for your production line.

No more compromises in quality:

- Inaccurate product weights, whether underfilled or overfilled
- Incorrect quantities in packaging
- Metal contamination
- Contamination from glass, stone, bone, high density plastic and rubber
- Missing, misaligned, or illegible labels
- Incorrect product information printed on labels or directly on packaging
- Non-compliant packaging, such as defective sealing seams
- Visible defects in products or packaging

1 | <https://www.tagesschau.de/wirtschaft/lebensmittelwarnungen-app-handy-100.html> 2 | <https://www.accessdata.fda.gov/scripts/ires/index.cfm>
3 | Source: Federal Office of Consumer Protection and Food Safety 4 | Source: Grocery Manufacturers Association

BIZERBA SOLUTIONS

Flawless products, every time

Ensuring compliance across borders

Whether you produce locally or export internationally, our inspection solutions ensure compliance with local regulations, laws, and guidelines. Equipped with certifications for numerous countries, our systems help you meet the highest standards worldwide.

Need to implement specific requirements? Your dedicated Bizerba contact is here to provide expert support tailored to your needs.



01

Product safety pack by pack

User-friendly user interfaces enable safe, simple operation. Eliminate time-consuming manual checks and incomplete spot inspections. With Bizerba inspection systems, you can guarantee product safety and quality across the entire production line – piece by piece, pack by pack.

02

Seamless integration into your IT infrastructure

Our individually configurable software seamlessly integrates with third-party systems and your existing IT architecture, ensuring a smooth and efficient implementation tailored to your production needs.

03

Seamless data for complete transparency

Benefit from comprehensive documentation for audit trails. Powered by the BRAIN2 software platform, our solutions seamlessly record every inspection event, archive all relevant data in an audit-proof manner, and enable future-proof digitalization and automation with a range of BRAIN2 modules and extensions.

Discover the perfect solution from a single source:

- ✓ Dynamic checkweighers
- ✓ Vision inspection systems
- ✓ Metal detection
- ✓ X-ray inspection systems

360° INSPECTION

Automated product safety and quality from A to Z

Compliance, performance and data transparency across the entire production line.

1

Dynamic checkweigher

Detects underfilling and overfilling and can determine the number of items in packages based on weight.

GO TO SEGMENT

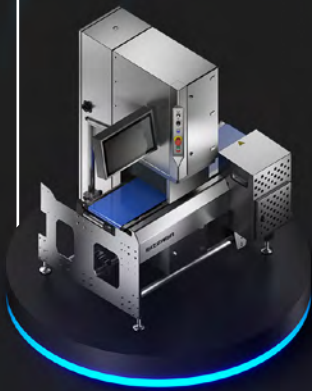


2

Visual inspection system

Checks labels for position, legibility and correct information. Checks sealing seams, recognizes visible product defects and much more. Traceability through image archiving.

GO TO SEGMENT



3

Metal detector

Detects magnetic and non-magnetic foreign objects, including screws, bolts, metal shavings, and aluminum particles.

GO TO SEGMENT



4

X-ray inspection system

Goes beyond metal detection, sorting out a wide range of non-metallic foreign bodies, in whatever packaging.

GO TO SEGMENT



5



BRAIN2

Connects all systems – including thirdparty solutions – creating full transparency while providing a future-ready platform for digitalization and automation strategies.



BRAIN2 modules

Enable automation of key processes, including master data maintenance, process data acquisition, OEE analyses, report creation, and more.

GO TO BRAIN2

6



Enables manufacturer- and platform-independent communication in a service-oriented architecture.

GO TO OPC UA

⊗ Rejection systems automatically remove compromised products.



DYNAMIC CHECKWEIGHER

The critical role of weight in product quality

Dynamic checkweighers are versatile tools that help prevent losses, customer complaints, and product recalls. They ensure accurate weights by eliminating underfilling, overfilling, and incorrect quantities in packages or containers. For added assurance, an integrated metal detector can identify contamination in the same step. Coupled with a tailored rejection system, compromised goods are automatically removed from the production line. Bizerba’s software ensures real-time transparency of production data and central management of master data, streamlining operations and maintaining the highest standards of quality.

Wide range of applications

- ✓ Detect and separate overfilled or underfilled packaging.
- ✓ Perform weight-based counting, such as for bags or package contents.
- ✓ Classify and sort products by weight class.
- ✓ Adapt to various food types with all-purpose and specialized systems.
- ✓ Accommodate a wide range of throughput and weight requirements.
- ✓ Withstand high-pressure cleaning in demanding industrial environments with robust designs.
- ✓ Include optional integration with metal detectors for added safety.
- ✓ Automatically reject faulty goods with an optional rejection system.
- ✓ Support compliance with the Prepackaging Ordinance (FPackV) through software.
- ✓ Monitoring and control of upstream processes and systems.



HIGHLIGHT
PRODUCT

Quality assurance at a high level



Featured solution: CWEmaxx

Designed for your food production: The CWEmaxx features a hygienic design with high-quality stainless steel surfaces, making it quick and easy to clean. Combined with a tailored reject system, it reliably removes out-of-specification packaging from the production line. It offers versatile combination options, such as an integrated metal detector, and is ideal for medium to high throughput operations.

Strong advantages

- ✓ Recognizing underfilling and overfilling
- ✓ Weight-based determination of quantities
- ✓ Product classification for categorization and sorting
- ✓ Complete documentation according to current standards
- ✓ Creates transparency through data on giveaways, total packs produced and much more.
- ✓ Basis for process stabilization and optimization
- ✓ Verifiable in accordance with legal requirements

Suitable software

-  **BRAIN2 Capture** Captures and analyzes process data – quickly, easily and efficiently.
-  **BRAIN2 Prepack_Compliance** Recording, evaluating and archiving statistical data records.
-  **BRAIN2 OEE** Recording and evaluating production KPIs to increase efficiency
-  **BRAIN2 Data_Maintenance** master data maintenance tool: Create article data send them to devices

-  More software modules on the [software solutions](#) page
-  Discover more Bizerba [checkweighers](#)

2

VISION INSPECTION SYSTEM

Eliminate visible defects with confidence

All triggers for complaints or product recalls are often visible but can easily be overlooked during manual spot checks. Bizerba vision inspection systems provide best-in-class solutions to address these issues. From missing, misaligned, or incorrect labels to defective sealing seams, damaged packaging, or missing products in trays, our systems reliably detect and eliminate these defects, ensuring consistent product quality.



Up to 40 %

Less food waste in the grocery stores through seal seam inspections in the factory

Wide range of applications

- ✓ Error detection during labeling or direct printing on packaging
- ✓ Detect defective seal seams and damaged packaging
- ✓ Easy to integrate into existing production lines
- ✓ Alarm and automatic rejection of faulty products
- ✓ Software for seamless traceability

HIGHLIGHT
PRODUCT

Efficient control of packaging and labels



Featured solution: LabelSecure

LabelSecure verifies labels for presence, legibility, positioning, and the accuracy of printed information. It also inspects data printed directly on packaging materials such as cardboard, film, and other substrates. With AI-powered error detection, it helps prevent costly rework caused by defective products and packaging. Additionally, it safeguards against recalls by ensuring critical information – like shelf life or allergen details – is accurate and compliant.

Strong advantages

- ✓ Food safety in accordance with international standards such as IFS and retailer standards such as M&S
- ✓ The right labels, properly positioned, with correct, legible information
- ✓ Avoid costly rework or recalls
- ✓ Future-proof and error-free with GS1 Digital Link Support
- ✓ Teach-in criteria quickly and easily
- ✓ AI-based, synchronous label inspection on the top and bottom sides
- ✓ Reject faulty packages in real time

Suitable software

-  **BRAIN2 Capture** Among other things, capture of all image data for optimum traceability.
-  **BRAIN2 Safety_Service** Process reliability through fast reconstruction of data backups.

-  More software modules on the [Software solutions](#) page
-  Discover more Bizerba [vision inspection systems](#)

3

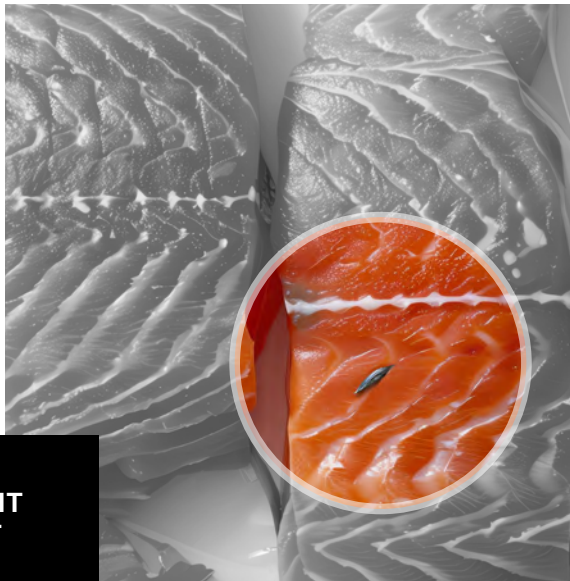
METAL DETECTION

Reliably detect metal contamination

Metal detectors are designed to suit your production environment, products, and packaging types. They effectively detect contamination from magnetic metals, like steel, and non-magnetic metals, such as aluminum. Optional features include a stop-on-detect function or an automatic rejection system, ensuring contaminated goods are consistently removed from your production line. For added efficiency, our metal detectors can also be seamlessly integrated with Bizerba checkweighers, saving space while enhancing production line performance.

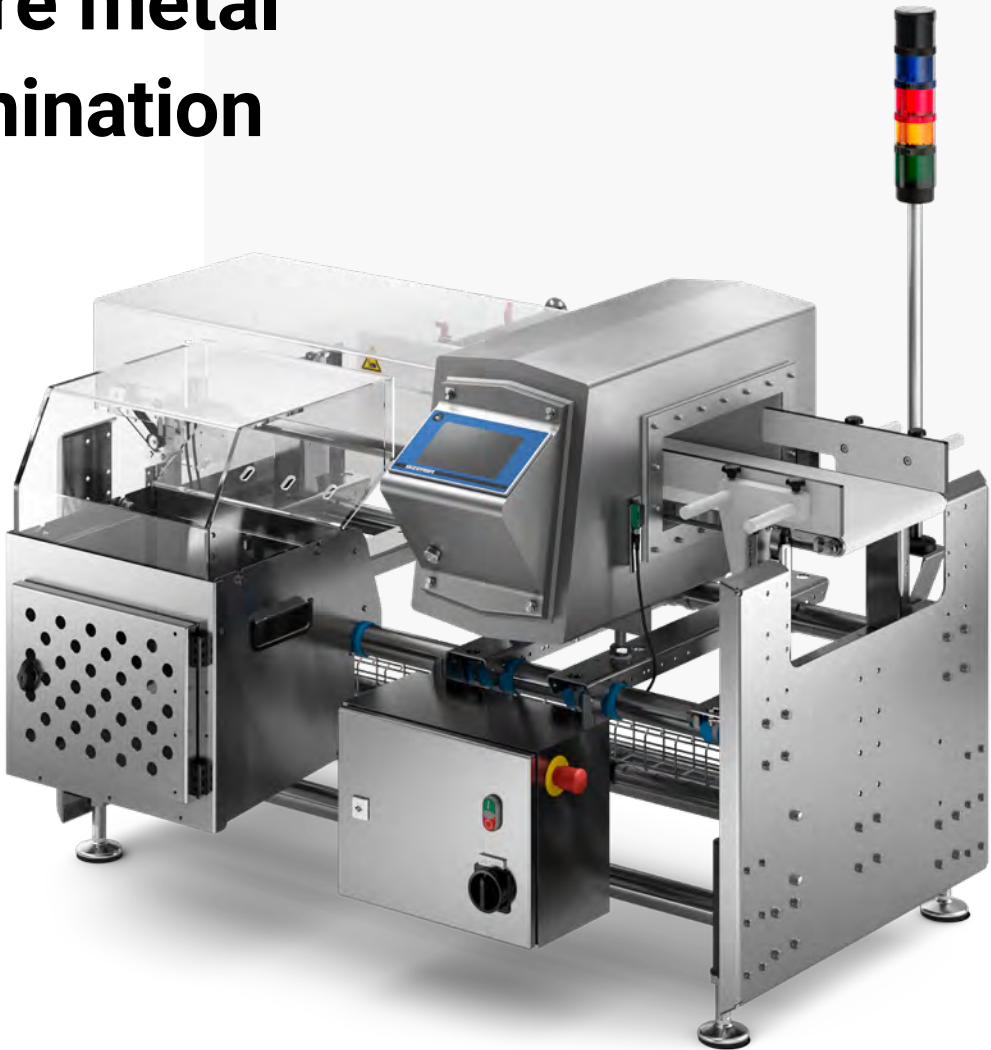
Wide range of applications

- ✓ Recognizing magnetic and non-magnetic metals
- ✓ Depending on model for packaging up to 50 kg
- ✓ Models for wet and dry areas and for bulk goods
- ✓ Hygienic design, easy to clean
- ✓ Different belt widths
- ✓ Line-integrated, stand-alone or mobile for flexible use
- ✓ Adjustable transport height and direction
- ✓ Optimum detection accuracy through selection of different coils



HIGHLIGHT
PRODUCT

No more metal contamination



Featured solution: iMD pro

The iMD pro metal detector, with its robust design and integrated conveyor belt, is specifically engineered for the food industry. It ensures accurate detection of enclosed contaminants in packaged products, including steel, stainless steel, and nonferrous metals like aluminum. With options for a stop-on-detect function or an automatic rejection system, the iMD pro prevents metalcontaminated goods from leaving your production line, maintaining the highest quality standards.

Strong advantages

- ✓ Short metal-free zone for interference-free, reliable detection
- ✓ Flexibly adjustable height for optimum detection of contamination
- ✓ Variable speed - process several products on one line
- ✓ Transport height and direction adaptable to changing production lines
- ✓ Stop-on-detect function or reject system
- ✓ Hygienic design and protection class IP65 for easy cleaning

Suitable software

-  **BRAIN2 Capture** Recording of metal finds and database for audits.
-  **BRAIN2 Safety_Service** Process reliability through fast reconstruction of data backups.

-  More software modules on the [software solutions](#) page
-  Discover more Bizerba [metal detectors](#)

4

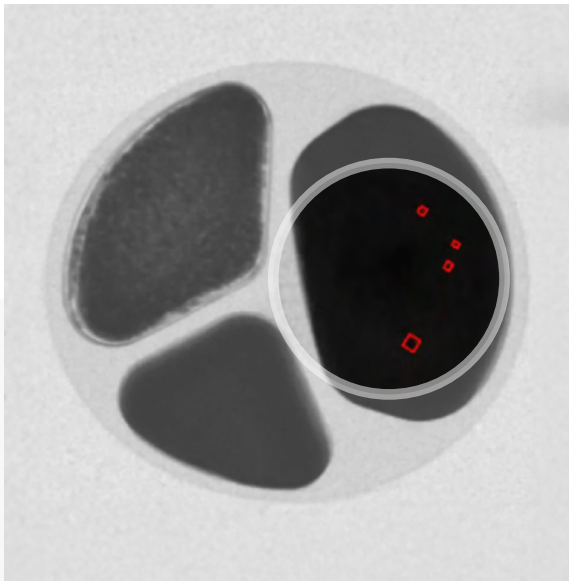
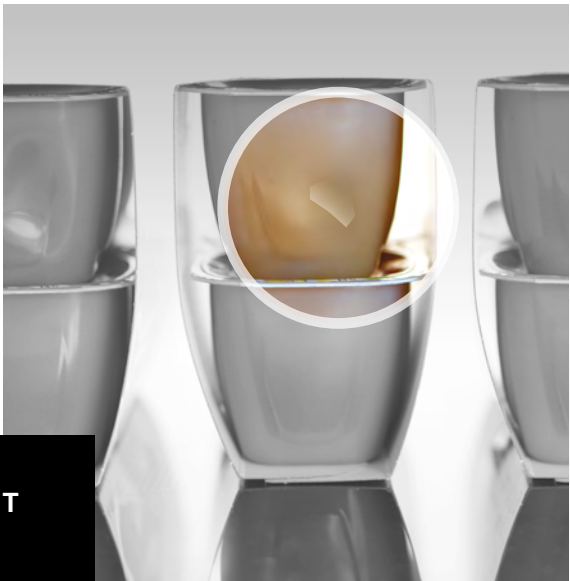
X-RAY INSPECTION SYSTEM

Ensuring quality with X-ray technology

X-ray inspection systems are versatile tools for inspecting all sorts of materials and products, making them ideal for quality assurance checks along the production line. They can detect a wide range of foreign bodies and can additionally verify the completeness of the product, effectively resolving many common causes of product recalls. X-ray inspection can be used on all sorts of container materials, including aluminized packages and regardless of product temperature or humidity. For added efficiency, our X-ray devices can also be seamlessly integrated with Bizerba checkweighers, saving space while enhancing production line performance.

Wide range of applications

- ✓ Detects magnetic and non-magnetic metals, glass, stone, ceramic, salt clumps, bone, PVC, Teflon and high density rubber
- ✓ No interference from packaging materials, product temperature or humidity
- ✓ Checks for non conformities as counting of the number of pieces, under-over weight, broken parts, wrong shape
- ✓ Can be accurately calibrated on the product contents, the packaging materials and the potential foreign bodies
- ✓ Different models available for wet or dry areas and for bulk goods



HIGHLIGHT
PRODUCT

Reliable and efficient end-of-line inspection



Featured solution: XRE-D pro

The XRE-D pro is available in various size configurations, with medium and high power, depending on the production and the quality control needs. The high power configuration features an intelligent power management system, that improves energy savings and the lifetime of the X-ray components. The open design, along with quick and tool-less accessibility, allows easy cleaning and maintenance. A user-friendly GUI and a guided auto-learn function guarantee simple machine operation, with very easy creation of new products. The XRE-D pro comes with unique software inside for Sensitivity Prediction and Compliance Monitoring, that help the user track the detection performances of the X-ray device on metal and glass foreign bodies, at any moment in time. The possibility to inspect different products in chaotic mode on the same lane and up to 4 lanes in parallel, is another distinctive feature of the XRE-D pro inspection system.

Strong advantages

- ✓ Is available in various sizes and X-ray power configurations
- ✓ Features an intelligent power management system
- ✓ Hygienic design, easy cleaning and maintenance
- ✓ User-friendly GUI and simple machine operation
- ✓ Intelligent Software for Sensitivity Prediction and Compliance Monitoring
- ✓ Inspection in chaotic mode and on parallel lanes

Suitable software

 **BRAIN2 Capture** Captures all contamination events and saves the image data.

 More software modules on the [Software solutions](#) page

 Discover more Bizerba [X-ray inspection systems](#)

PRODUCT OVERVIEW

Which solution is right for you?



360°

We provide tailored inspection solutions **for a wide range of packaging types**, products, and contamination risks.

Dynamic checkweigher

CWDmaxx
CWEmaxx
CWFmaxx
CWHmaxx
CWPmaxx

Visual Inspection

SealSecure
LabelSecure
PackSecure

Metal detector

iMD pro
iMD basic

X-ray inspection

XRE-D
XRE-D pro

Missing weight

Avoiding over- and underweighting	Weight-based counting
✓	✓
✓	✓
✓	✓
✓	✓
✓	✓

Label

Presence	Position & orientation	Text recognition (OCR)	Read code
—	—	—	—
✓	✓	✓	✓
✓	✓	✓	✓

Sealed seam

Trapped foreign bodies	Air pockets, leaks
✓	✓
—	—
✓	✓

Visible defects

Missing/overcount of products	Deformed/discolored products
—	—
—	—
✓	✓

Foreign body

Metal	Stones, glass, plastics, other non-metals	Aluminized packaging
✓	—	✓
✓	—	—
✓	✓	✓
✓	✓	✓

CASE STUDY

15 % productivity increase thanks to Bizerba solutions

Jam manufacturer Alfred Faller has implemented a comprehensive quality management system using a Bizerba solution, featuring complete documentation of production data.

“Today, we know exactly what each item contains, where it is in the process and where it has been delivered to. Possible recalls can be targeted – a major concern for retailers.”

Thomas Kessler
IT Manager, Konfitürenmanufaktur Alfred Faller GmbH



 [Click here](#) for the full case study

The challenge

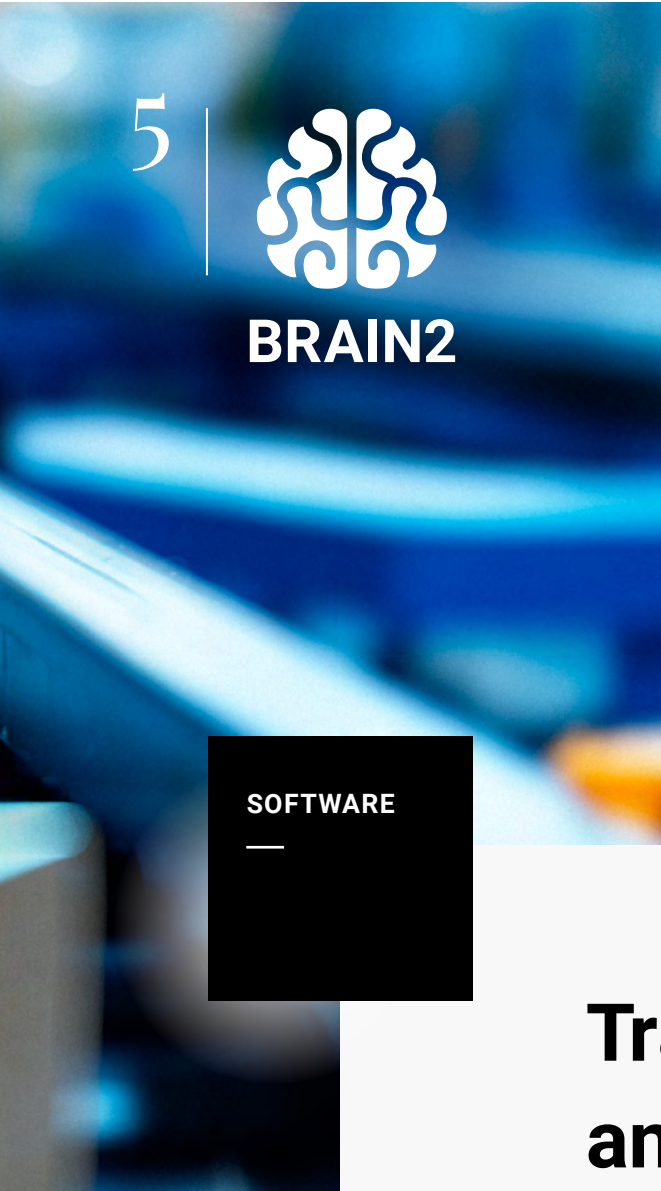
- Implementing a hardware and software solution for quality assurance
- Networking with the existing QM system
- Optimize traceability, transparency and productivity
- Conformity with the Finished Packaging Ordinance (FPV)

Result

- 15 % increased productivity
- Increased process reliability
- Error reduction
- Time saving

Solution

- Checkweigher for tare and gross weights
- Metal detector and reject systems
- QMS networking with BRAIN2 and BRAIN2_Capture
- Integration of printers and scanners for barcode IDs



Transparent, efficient and secure processes

BRAIN2 industrial software

The BRAIN2 industrial software sets standards for data centralization, data exchange and data security in food production. BRAIN2 offers functions such as reporting, device management, user management and an audit trail system. Efficient centralization, ease of use and data security at a high level are the focus of BRAIN2. With the various BRAIN2 modules and extensions, you can implement a solution that precisely maps your individual processes and enables optimization measures.

Customized modules for food production



**BRAIN2
OEE**

Transparent figures

BRAIN2 OEE captures key production metrics, analyzes them, and calculates OEE values from the collected data—providing the perfect foundation for optimization initiatives.



**BRAIN2
DATA_MAINTENANCE**

Central data maintenance

Manage the master and configuration data of your Bizerba hardware, such as article or customer data, centrally on the PC with minimal time expenditure.



**BRAIN2
SAFETY_SERVICE**

Secured data

Create backups automatically with Safety_Service. If necessary, the backup data stored in BRAIN2 can be restored from the PC or directly on the devices.



**BRAIN2
CAPTURE**

Efficient data handling

The module records and analyzes process data from inspection systems and the various other connected devices.

6



SOFTWARE ARCHITECTURE

Manufacturer-independent industrial communication

OPC-UA is the leading standard for platform-independent industrial communication, enabling seamless cross-location data exchange within a cloud-based architecture. All Bizerba software products adhere to the OPC-UA standard, ensuring full compatibility and seamless integration with our devices.

Bizerba provides OPC-UA-capable solutions, including inspection systems, checkweighers, weigh-price labeling systems, labeling systems, and terminals, ensuring flexibility and interoperability across your production processes.

CONTRACTS

Tailored contracts for your operational needs



The food industry constantly faces new challenges and rapid changes. Increased digitalization, enhanced automation, and greater efficiency are the keys to staying ahead. Our customizable contracts—focused on boosting productivity, ensuring quality management, enhancing data security, and optimizing cost control—empower your team to focus on core tasks while unlocking new productivity potential.



PERFORMANCE CONTRACTS

Increase productivity and optimize efficiency

- ✓ Checkup
- ✓ Remote support
- ✓ Repair service



QUALITY CONTRACTS

Automate quality management and ensure compliance

- ✓ Calibration



PROTECTION CONTRACTS

Ensure data security and unhindered data flow

- ✓ Software maintenance



COST CONTROL CONTRACTS

Improve cost structures and increase transparency

- ✓ Full service
- ✓ Life cycle
- ✓ General labeling
- ✓ Produce labeling



You can find more information about our contracts [here](#)

SERVICES

Services designed to meet your needs – available 24/7

For every step of the process

- ✓ Full service for installation and commissioning
- ✓ Holistic advice
- ✓ Needs-based maintenance and repair service
- ✓ Optional 24/7 service contract*
- ✓ Full support: spare parts, technical expertise and on-site assistance
- ✓ Services relating to quality, safety and conformity
- ✓ Leasing and financing*
- ✓ Training for you and your teams
- ✓ Customer portal with comprehensive functions

* not available in all countries

Our service contracts are individually tailored to meet the unique requirements of your production, including options for 24/7 support. This ensures you receive exactly the services you need at predictable, cost-effective rates.

Benefit from our advanced spare parts logistics and the extensive reach of our international service network. Additionally, more than onethird of all issues can now be resolved through Bizerba Remote Support – quickly and efficiently, without the need for travel.



You can find more information about our services and support [here](#)

Modern support solutions

Whether AR app, remote activation, remote software maintenance or on-site use: we ensure minimal downtime.



CLEANING AND CARE

Perfectly maintained for optimum performance and a long service life

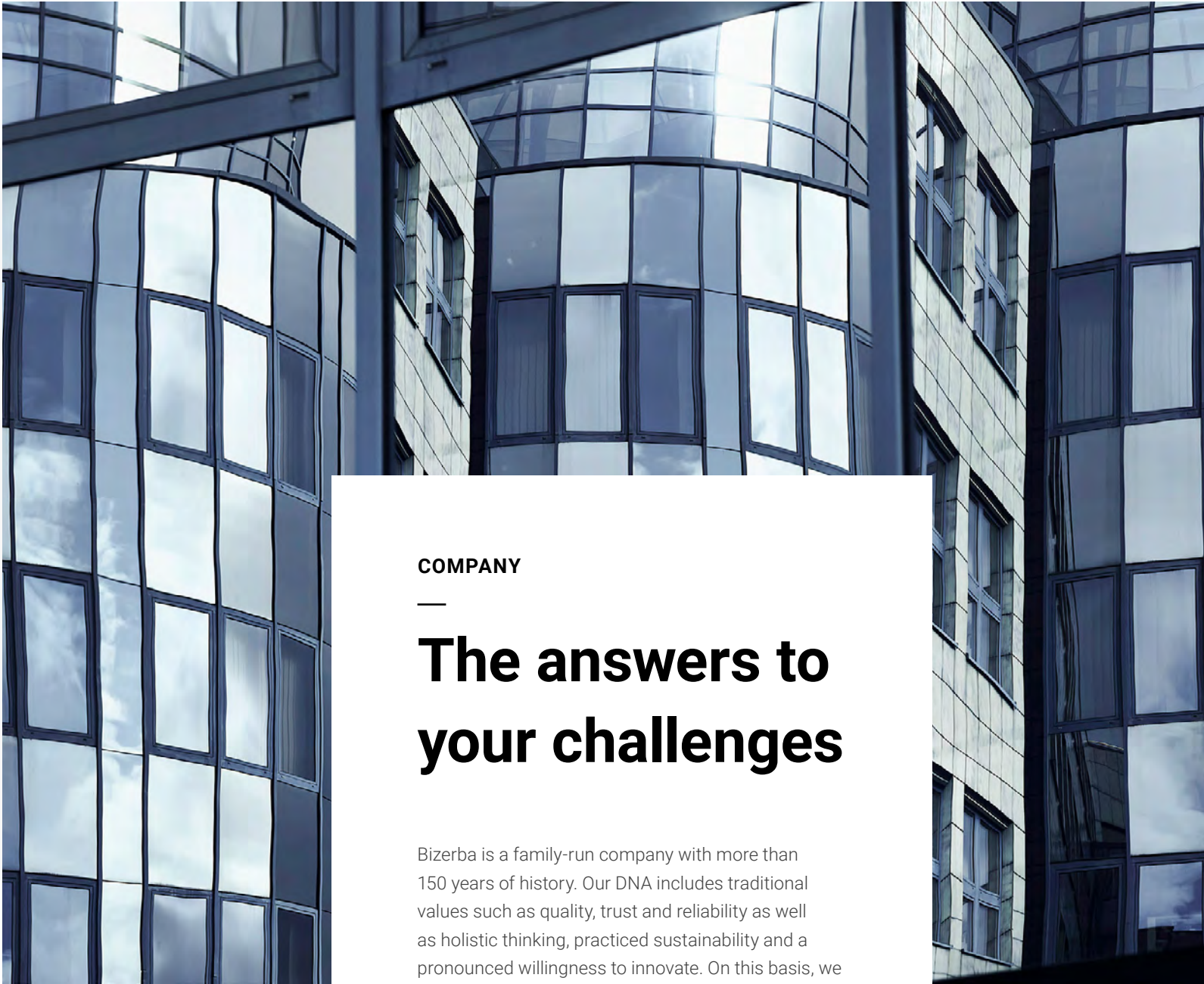


Our cleaning and care products will increase the performance and service life of your Bizerba hardware. The formulations are tailored to the materials and components we process. They clean glass, plastics and metal thoroughly and gently. You will also find synthetic grease especially for use in the food sector in our range of cleaning and care products.



” Growth begins with vision—turn your ideas into reality.“

Andreas W. Kraut
CEO and shareholder, Bizerba



COMPANY

The answers to your challenges

Bizerba is a family-run company with more than 150 years of history. Our DNA includes traditional values such as quality, trust and reliability as well as holistic thinking, practiced sustainability and a pronounced willingness to innovate. On this basis, we deliver comprehensive, seamlessly integrated and futureproof solutions. They are individually tailored to your goals and the challenges of your industry – today and tomorrow.

Bizerba: Everything from a single source



Find out more about Bizerba [here](#)

- 01
Hardware
- 02
Software
- 03
Labels
- 04
Service
- 05
Financing

CONTACT US



Want to find out more?

Let's collaborate to identify the inspection solution that perfectly suits your unique requirements.

Bizerba SE & Co. KG

Wilhelm-Kraut-Straße 65
72336 Balingen
Germany

bizerba.com

CONTACT US NOW

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