

# Contamination Detection

fast | precise | reliable



***Metal cuttings***  
*(metallum astulae)*

**1.21 mm** detected with a Höfelmeyer

## Your requirements are our challenge!

- For your customers' safety
- Driven by your own quality standards



These days, modern production lines can no longer do without inspection systems. Otherwise companies risk tarnishing their image, a loss of trust and dwindling customer figures if they have to recall products. For this reason, many companies rely on contaminant management, which detects and eliminates impurities and damage early on.

No matter whether your actions are motivated by internal quality management reasons or obliga-

tions to consumers: Höfelmeyer has years of specialist know-how to support you in your efforts.

**"Contaminant management is indispensable these days!"**

Our detection and inspection solutions offer you maximum safety and can be integrated flexibly in your production process.

## Our know-how

- Constantly trained personnel
- Branch-specific knowledge for food, pharmaceuticals, chemicals and polymers
- Creation of maximum product quality by mastering the processes
- Application of relevant concepts such as IFS, BRC or HACCP standards

## Tricky intruders!

The large variety of contaminants means that a conventional metal detector is often not sufficient, since broken glass, pieces of wood, stones, bone or particles made of PTFE and other polymers all threaten product safety.

Product contamination can occur during the manufacturing process itself (metal, polymers, glass) or have a natural origin (wood, stone, pieces of bone, shell). The type of contaminant detection required is defined by the HACCP analysis, for example.

**"Your customer trusts our know-how!"**

What kind of contaminants can occur? Where can these be found? And what kinds of measures need to be initiated to trace these contaminants in the product?

Höfelmeyer is the specialist who can answer these questions and provide the best possible solution for your problem.





## There are many ways to achieve the same goals.



### Metal detection

- Can be used for packed and unpacked goods
- Detects magnetic and non-magnetic metals



### X-ray inspection

- For magnetic and non-magnetic metals, glass, bone, stones
- Check on completeness in closed packaging
- Weight check for total and partial quantities
- Inspection of product characteristics (cracks, deformation etc.)
- Detection even in metallic packaging



### Optical detection

- Checks label and printing data (positioning, legibility, correct contents, bar code etc.)
- Sealed seam inspection
- Inspection of product characteristics (lid, shape, color etc.)
- Check on completeness

## Our product examples for you!

### Metal detection for conveyor belts

The metal detector can be integrated in the production line as a stand-alone unit or as a combined solution with a checkweigher. Process-specific extensions such as automatic ejection devices, catch trays, sensors or data connection are available as options.



### Metal detection for pipelines

This version can be integrated directly into the product flow of bulk goods or liquid/paste products with pump applications, vacuum and pressure conveying or pneumatic conveyor lines.



### X-ray detection

X-ray detection can both detect contaminants and check specific product characteristics such as the weight of individual portions, cracks or completeness within the closed packaging.



### Optical detection

Visual inspection concentrates on the respective product characteristics. Complete labels or specific label areas such as the best-by date or the legibility of the bar code can be checked. Sealed seam inspection traces leaks or soiling.





## Contaminants – not only at the end of the chain!

### 1 Goods inward inspection

It is important to detect contaminants at goods inward in order to keep production clean right from the start. This quality check is also used for supplier assessment. It allows you to design your production process more efficiently.



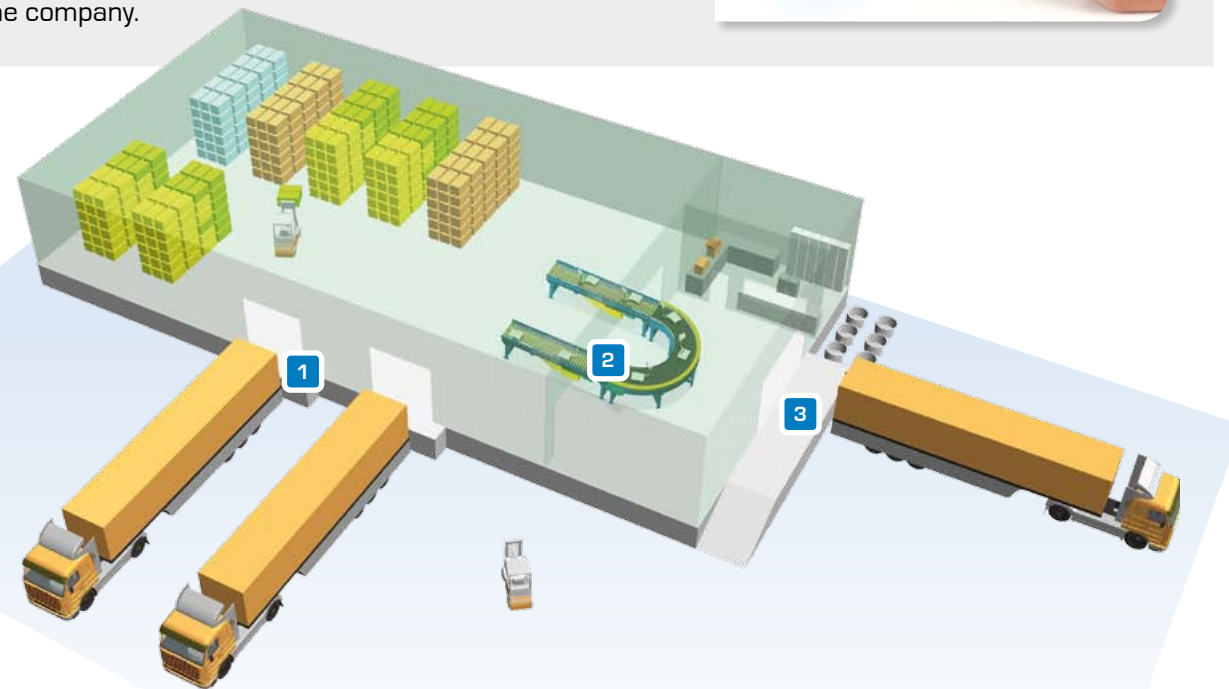
### 2 Intermediate checks in production

Contaminants may infiltrate your batch during the production process. Detecting these here optimizes processes and increases your product quality.



### 3 Dispatch inspection

This is where you hand over your quality product to your customer. The most important interface within the company. Mistakes made in final inspection often have a serious effect, since they can have a very negative impact on the trust placed in the company.



## Höfelmeyer QS Station: One-stop shopping for quality assurance



The Höfelmeyer QS Station offers you the entire range of quality assurance. The modular system allows gradual integration into your production line. Your processes are managed by a central control unit. This means that you have a central article management or central evaluation options, for example.

Another advantage is that you can communicate with Höfelmeyer as the central contact for all components. We are familiar with and understand your processes, and will find the right solutions for your inspection processes. In addition, external systems can also be integrated in the Höfelmeyer QS Station.

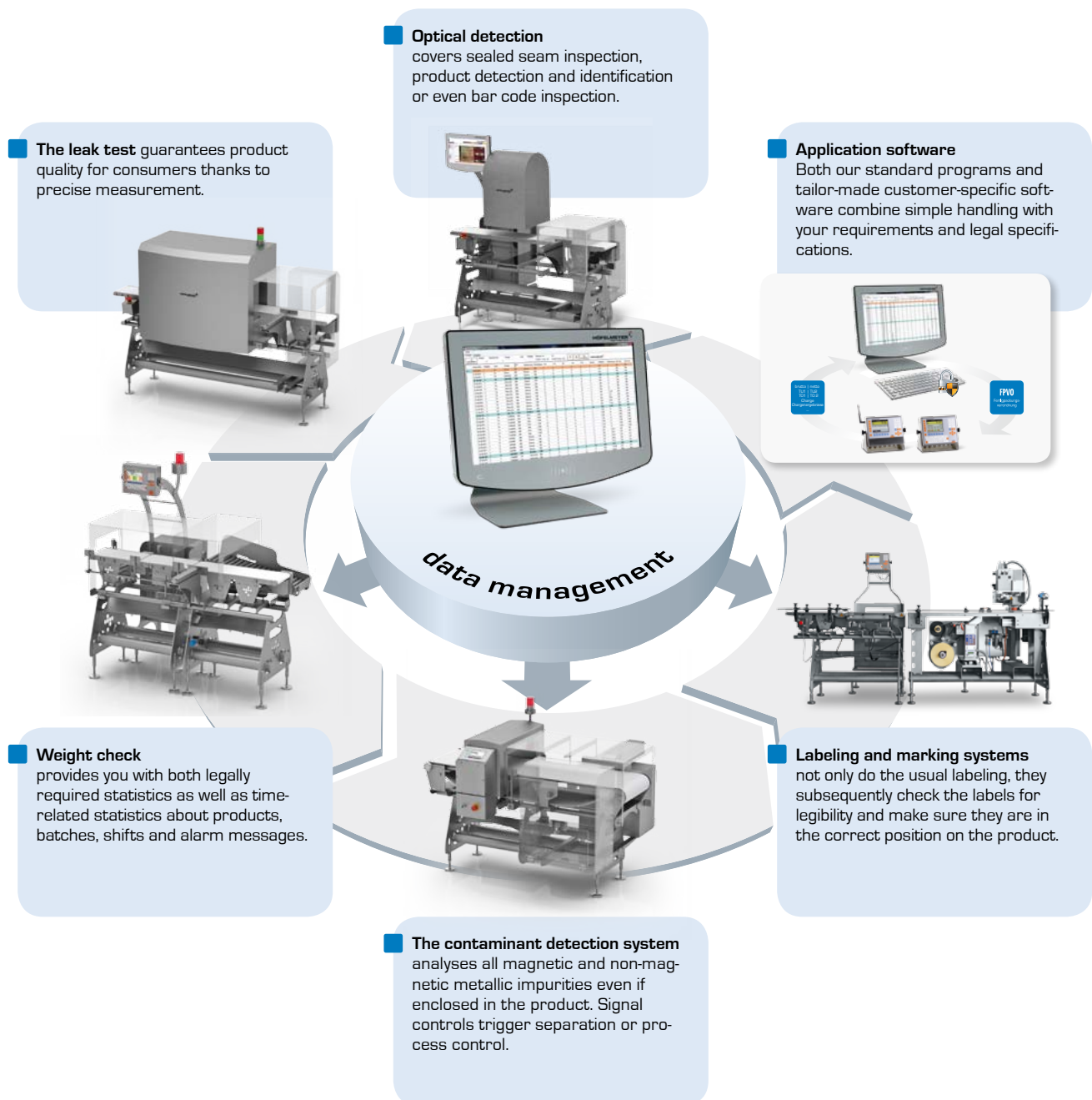


# Central data management: Everything under control!

Comprehensive quality control is our central focus. We offer complete solutions from weighing and weight control through metal detection to labeling. Processes can be documented and optimized through our central data management. We work with modules and can integrate our products into your production process as required.

## Central data management

permits you to check your production at random and in real time. So you can optimize your process and save on both time and costs. Höfelmeier provides solutions for your complete production process.



Are you familiar with the QS Station? Take a look!



 trust in measure!

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We reserve the right to make technical changes.