

Innocheck



Everything under Control –  
with Inspection Technology  
from KHS Metec

## ... Control is Better!

KHS Metec offers the inspection equipment you need for your filling line

Today, increasingly stricter controls are required everywhere in order to reliably maintain a high standard of quality in the production of beverages and food.

This requires measurement and control technology that is adaptable to individual application requirements available at a reasonably low price and necessitates plenty of experience, know-how, and skill in handling cutting-edge measurement and control equipment.

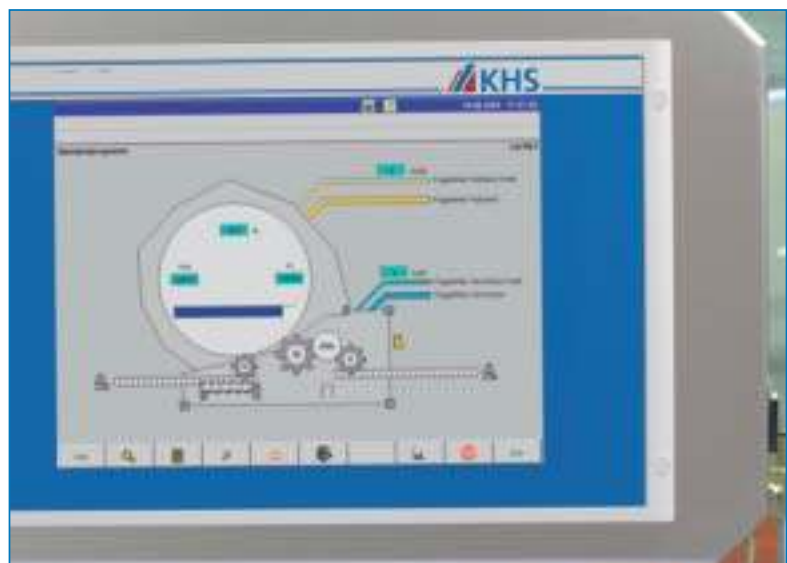
KHS Metec, one of the market leaders in the field of quality control systems for the beverage and food industries, offers all this and more. A successful, modular-design based product range proven in more than 5000 installations worldwide that incorporates all of the measurement and control functions needed for filling cans, glass bottles, and PET/PEN bottles relevant to the beverage and food sectors.

Experienced and highly motivated employees maintain KHS Metec's top position in the market with innovative force, flexibility, and a willingness to provide service.

By interacting with KHS, you receive optimally customized quality controls for all of your areas of application – all from one source.

Take advantage from this competence potential for yourself and your company.

KHS Metec control and inspection instruments can be integrated individually or combined in a PDA system. They can be connected to both the customer's own database as well as to KHS' ReDiS® remote maintenance system.





All KHS Metec inspection devices are prepared for integration into the ReDiS® system. Highly developed inspection components in conjunction with leading-edge hardware such as high-resolution cameras, remote maintenance, and diagnostic support. The KHS ReDiS® remote maintenance system stands apart from all others by offering noticeable cost-savings while adhering to maximum safety and providing top inspection quality.

## **KHS Metec –**

Reliable empty bottle sorting and inspection

KHS Metec FLS for dependable inline bottle sorting. Available as a standalone machine or integrated in an empty bottle inspector or sniffer.

**You reliably receive best sorting results.**

KHS Metec solutions for leak detection. Optionally available as ultrasound baths, with mechanical checks, or no-contact inspection directly at the labeling machine.

**Perfect solutions to meet all of your requirements.**



## KHS Metec – PROMECON Controllers –

The heart of the versatile measurement, control, and inspection system



### **PROMECON 2000 –**

For standard applications

A highly efficient compact controller. A wide range of modular functions and features offer perfect solutions to every task.

The PROMECON 2000 is equipped with an informative statistics menu, password protection, and a multilingual LCD display for easy operating. Serial interfaces are available for communication or connection via a Profibus link module.





## **PROMECON 4000 –** For more demanding applications

Equipped with ultra-modern multiprocessor technology and an LCD touch screen display, this controller is capable of solving complex problem definitions.

Several image-processing units and a widest range of sensors with innovative software can be combined according to the application requirements to form a highly efficient unit.

The PROMECON 4000 meets currently applicable international standards and is equipped according to KHS standards for simple and intuitive operation. It offers flexible Ethernet connectivity and is well suited for remote maintenance with the KHS ReDiS® system via ISDN.



# Filler Management System from KHS Metec –

Quality assurance and product savings



Together with additional software, sensory equipment, and in conjunction with the PROMECON 4000, the various KHS Metec filling level checking devices provide the capabilities of an effective filler and capper/seamer management system.





Various measurement techniques are available for measuring the filling levels of various styles of containers. High frequency, X-ray, gamma, image processing, laser, infrared. Reliably exact measurement results even in the high-capacity range.

**Optimum, application-adapted selection for use for PET and glass bottles, cans, kegs, and other types of containers.**

Expansion options with a variety of closure checks ranging from closure presence to loose and cocked crown closure detection.

**The epitome of quality assurance.**

Equippable with an efficient filler monitoring system. **You receive a high-quality PDA device and real maintenance support.**



# Total Outfit Check –

KHS Metec supplies you the equipment



From bottle presence checking in the labeler to demanding container outfit inspection – you can seamlessly monitor your labeler production with KHS Metec equipment.

All label inspection facilities can be individually expanded by adding filling level and leakage detection.

**Even more assurance in maintaining the quality of your products.**

OCV and OCR modules are available for all CCD-camera-based label inspections such as best-before date checking. EAN codes can also be checked.

**Additional safety also for your customers.**

With its Innocheck ETI, KHS Metec offers a highly efficient, compact checking unit.

**With this device, you can meet market demands for comprehensive product inspection.**

A high-performance unit made of stainless steel for inspecting up to ten labels with a precision of  $\pm 1.0$  mm at speeds of up to 70,000 bottles/h.

**Flexible to use and with a high standard of hygiene.**







Rejection and distribution systems for all capacity ranges.  
**Reliable faulty container rejection into pre-specified channels.**

Innocheck SYNCHRON – a rugged cam-controlled multiple segment system.

**Reliable standing rejection of even unstable containers at high production speeds.**

Innocheck ROTOPUSH – a compact eccentric system with an innovative control and servodrive.

**Precision rejection and selective pushout of single flawed containers.**



# KHS Metec –

Leading-edge inspection technology for dry areas

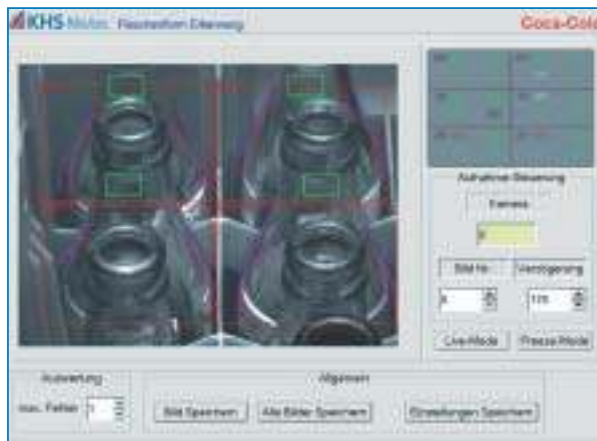


Changes in the beverage market come about rapidly. New types of containers and packs are continuously being launched to the market. They represent constant new demands on empties inspection systems. With KHS Metec, you can meet these demands.

With the latest in equipment, innovative software developments and flexible inspection modules that can be combined to meet your individual needs.

This includes

- Logo inspection/crate measurement
- Unpackability checking
- Bottle height measurement
- Bottle contour detection
- Bottle color detection
- PET neck ring detection
- Discrimination of glass/PET/PEN bottles
- Selective unpacking
- Container deposit
- Batch tracking



The camera of the empty crate inspector checks crates for any remaining bottles and foreign objects, damage, deformations, and alternatively handle or crate partition breakage.

Ultrasound systems for foreign object detection are also available as an option.

**No flaw is overlooked.**





KHS Metec likewise offers various detection systems for full crate inspection. Tailored to the type of pack and customer requirements ranging from simple bottle presence checking in crates/cartons to total quality full crate inspection with image processing.

Integrable X-ray filling level checking is also available.

**So that you are always on the safe side.**

Rejecting, sorting, distributing – let the KHS Metec TANGENS SORTER do it. A proven, electronically controlled system for all styles of pack such as full and empty crates, trays, and containers.

This servo-controlled device is mounted above the conveyor table away from the dirty pack/container area.

Output of up to 5000 containers/h.

**Thus enabling you to install high efficiency coupled with great reliability.**



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