Empty bottle inspection for small and medium-sized enterprises in the food and drinks industry

KS–Schneider/Ruhland GmbH
Germanenstraße 2
D–93098 Mintraching
Phone: +49 (0) 9406 28449-0
Fax: +49 (0) 9406 28449-29
E-mail: office@kssr.de
www.kssr.de

Local contact

iMove Enterprises Pty Ltd
POBox 2167
Regency Park SA 5942
Phone: +61 8 8162 9666
Fax: +61 8 8162 9677
E-mail: info@imoveenterprises.com.au
www.imoveenterprises.com.au

KS CONTROL

KS–Schneider/Ruhland is one of the most agile company’s of production and Quality control system to the Food & Beverage and Automotive industry.

Years of experience of finding solutions for very complex control tasks, an efficient Project Management creating the base of our Control and Inspection Systems for the Beverage and Packing industry.

Our services including Consulting and Development, Design, in house Production installation as well as program design and commissioning of complex controls.

A prompt spare parts service is supporting our products.

Full crate/carton control
Full Box control will detect missing bottles/containers in all standard full crate/carton sizes

Check-Weigher
WEIGHT CONTROL will compare the filled crate/carton weight against the stored product weight

Fill-height / Closure control
CAM P2 – System for integration in new or existing equipment to control over—, under—fill and correct closure position

Label-check (sensor-based)
KS Control Sensor based Label-check on finished application if label is applied or not for different types of bottles/containers

Reject system
We offer for the automatic rejection of containers during the production different styles of reject systems:
— Reject Pusher system and
— Linear-rejection system for smooth transfer of different types of containers

Extract of other Product range and Services

iMove

for in house Production installation as well as program design and commissioning of complex controls.

A prompt spare parts service is supporting our products.
An empty container inspection system for glass bottles and containers which offers flexibility and detection reliability, at reasonable costs and with minimum space requirements - these are the outstanding features of the X PLORER inspection system. Specially developed for the inspection requirements of small and medium-sized bottling plants, the „multi-talented“ X PLORER combines a state-of-the-art inspection system with quality machine construction „Made in Germany“.

Areas of application

- Full or partial inspection of empty non-returnable or returnable glass containers, as well as swing top bottles.
- Specially developed for the inspection requirements of small and medium-sized bottling plants in the food and drinks industry.

Capacity

- Up to 20,000 bottles/h effective capacity (depending on container)

Advantages of the X PLORER inspection system

- A wide variety of containers can be processed due to simple sorting management system
- Simple operation, the shortest possible changeover times
- Modular design. Can be economically upgraded at any time.
- State-of-the-art, effective CCD camera and long-life LED lighting technologies
- Integrated, future-proof network interface (industrial, Ethernet, TCP/IP)
- Remote service connection via Internet
- Minimum space requirement.
- Full inspection in a space of just 1.5 m²

Perfectly tailored to meet the control and inspection requirements of small and medium-sized bottling plants

Flexible in application, state-of-the-art camera, lighting and evaluation technology, as well minimum space requirement - these are the features that small and medium-sized bottling plants expect from a future-proof inspection system.

From individual inspections, for instance of the base and neck, to parallel inspections of the base and neck, as well as full inspection of the entire container, the X PLORER inspection system can reliably detect and reject damaged containers.

Inspection options

Sealing surfaces / neck finish inspection
The container neck is inspected to ensure reliable detection of damaged sealing surfaces. The entire neck is displayed in images and analyzed for faults. Chipping, cracks, damage, stress fractures, sealing and caustic residue are reliably detected and the faulty container is rejected from the production process.

Thread inspection
The X PLORER thread inspection unit examines screw closures across the entire thread geometry, regardless of whether there is a single thread or several. This entire thread length is displayed via a variety of mirrors and inspected for critical areas of wear and damage.

Base inspection
During the inspection of container bases, an extremely high contrast image of the base is analyzed using LED flashlights. Existing structures such as embossing or liners are ruled out by filters so that all types of contamination or damage can be reliably detected.

Sidewall inspection
Two high performance CCD cameras, which take images at staggered positions, produce overlapping images via a mirror system in the transmitted light. These images produce a complete 360° all-round view. Existing glass structures are analyzed as well as faults such as cracks, impact marks, scuffing, as well as films and paper adhesions can be detected and the damaged container rejected.

Caustic residue / residual liquid inspection
We use high-frequency (HF) and infra-red (IR) measuring techniques to detect residual liquid. In the case of HF measurement, a high frequency field in the base area registers the smallest amounts of conductive liquids, such as water and caustic residue. Non-conductive liquids such as varnish or oil are reliably detected using infra-red sensors.

HF-Laugenerkennung
IR-Laugenerkennung

Pressurized containers can be reliably detected in the base area, as well as residues in inner layers of the glass.

Areas of application

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The innovative and economical empty container inspection system for the food and drinks industry

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