

STRATEC VK-X

X-Ray Full Carton/
Full Crate Inspection



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CONTROL-SYSTEMS

General Introduction

The last possible time to recognize missing bottles/cans containers or cartons with broken containers, or badly filled containers, is between the packer and the palletizer.

With the new **STRATEC VK-X** (Full-carton/full crate inspection) it is possible to detect faulty cartons/ crates and remove them from the production process.

STRATEC VK-X scans the carton with X-Ray radiation. The radiation source is an extremely compact X-Ray tube.

This principle presents for many applications an essential advantage compared with optical systems or scales.

The X-Ray method allows for example an inspection of the carton in open or closed condition, and this can be done at very high transportation speeds.

When a faulty carton/crate is detected, it can be removed from the production process or an acoustic or optical alarm can be activated.

The installation, operation and service of the system is simple. The adjustment of the parameters is realized to a great extent in TEACH IN mode.

Self-diagnosis with malfunction display in plain text guarantees high reliability and easy service.

STRATEC VK-X can be easily mounted on existing installations.

Application

STRATEC VK-X has a wide field of applications. It is the appropriate inspection system for reliable quality assurance where bottles, cans or similar containers are packed in cartons. The system is also suitable for shrink-wrap packagings.

Inspection features

- Inspection if cartons / crates are completely packed
- Empty carton inspection after unpacker
- Missing bottles/cans inspection
- Inspection if broken bottles are inside
- Rough fill-level inspection of bottles/cans inside the closed cartons

Mode of operation

The system consists of a sensor bridge and a control unit. The sensor bridge is adjustable in height through a spindle. The sensor bridge is equipped with an X-Ray source and a high sophisticated detector.

While passing under the sensor bridge the carton / crate is scanned by under normal conditions harmless X-Rays. The evaluation of the sensor signals as well as the control to the rejection or distribution unit is carried out by the control unit.

Control Unit

- Simple operation by means of 4 push buttons
- Machine stop in case of sequential faults
- Counter for total number and number of rejected crates
- Integrated printer interface (V24)
- Self- diagnosis
- Control and transfer to the rejection unit
- Change of crate type via SPC or RS 232 interface
- Text display (5 languages switchable to D, GB, E, I, F)
- Capacity available for processing of additional sensors
- Operating data acquisition

Technical Data

Mains supply:	_____ 230 V
Power supply:	_____ 50 VA
Enclosure:	_____ IP 55
Environment temperature:	_____ 0 - 40° C
Dimensions- sensor bridge (WxHxD):	_____ 800x170x400 mm
Weight- sensor bridge:	_____ 55 kg
Dimensions- control unit (WxHxD):	_____ 400x220x500 mm
Weight- control unit:	_____ 41,2 kg
Rejection signal positiv switch:	_____ 24 V - 0,5 A max.
Max. transportation speed:	_____ 1,5 m/sec
Distance from carton to carton:	_____ min. 60 mm
Running direction of the cartons:	_____ lengthwise / crosswise
Recognition method:	_____ X-Ray
Gamma Source:	_____ Extremely compact X-Ray tube (60 keV)



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