SC

X-ray scanner for highest process security

OCS

CHECKWEIGHERS

Expertise and experience from one hand.

In combination with the type-approved high performance X-ray tube, the unique camera-detector-technology renders product pictures of stunning sharpness and resolution. Therefore, the OCS X-ray scanner cannot be topped when it comes to precision and speed. With its image processing software, developed by OCS, it can not only detect foreign objects consisting of metal but also other contaminants with a higher density such as glass, stones, plastics and bones. Additionally, it detects product flaws such as broken, deformed or incomplete products and rejects them. Thus, the OCS X-ray scanner is a perfect supplement for established technologies such as checkweighers and metal detectors. It is the result of a scientifically based development combined with the well-known innovative strength and reliable components of the OCS Group.

When it comes to checking precision, a "tiny difference" turns into a huge advantage

OCS

CHECKWEIGHERS

The introduction of an intelligent X-ray technology!

Constantly increasing requirements of consumers and producers for quality and safety of groceries, combined with a faster and more extensive flow of information, are challenges today's brands have to meet. Especially foreign objects such as metal parts, glass, stones etc. pose a significant threat on the health of the consumer. In addition, quality characteristics such as completeness, correct shape and correct filling level are getting more and more important.

Quality management standards such as HACCP, BRC, IFS, etc. facilitate the establishment of an efficient quality management system which has to ensure the highest quality and safety standards for the consumer. To implement these systems without impairing the productivity modern production processes require equally modern automatic monitoring systems.

A new dimension for product safety – the OCS X-ray scanner

The functional principle of the OCS X-ray scanner

The type-approved metal-ceramics X-ray tube is powered by a continuously variable high voltage generator. Via a collimator the tube sends a focused X-ray beam to the high-performance camera. The integrated conveyor guides the product which has to be checked between the tube and the camera so that the product can be X-rayed. The rendered images represent the density allocation of the checked product. Foreign objects are identified due to their higher density. The 15" touch screen displays the X-ray images in real-time and simultaneously the self-developed image processing software checks for numerous possible product flaws such as foreign objects, product shape, filling-level deviations and incomplete or broken products.

HV Generator

X-ray tube

Pusher

X-ray beam

Product

Conveyor

High-performance camera

PC

Rejection bin

X-ray image
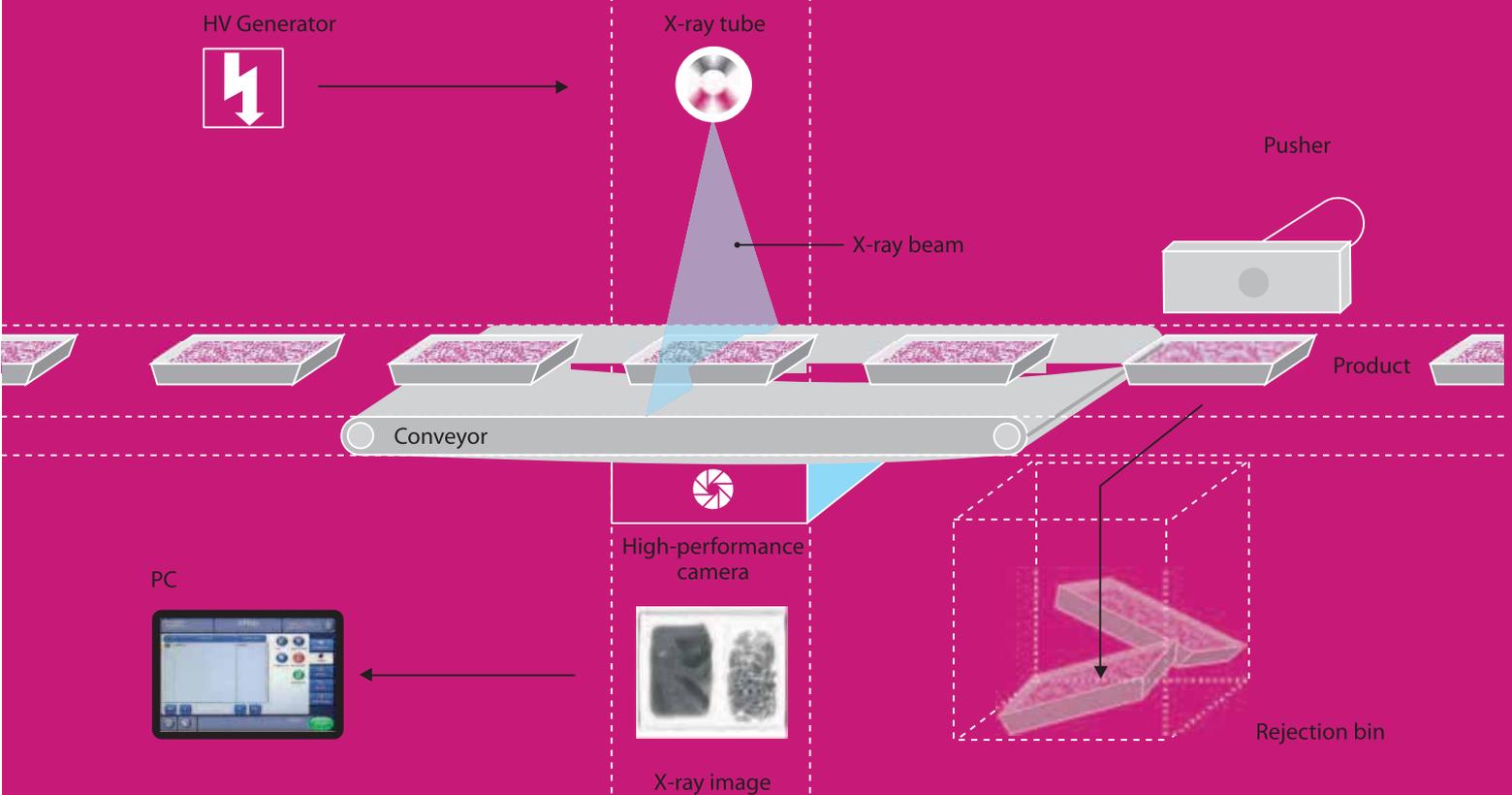
Faulty products are extracted from the production flow by a wide range of optionally available rejecting devices. The rejection counter-check monitors whether the product is safely rejected. To provide records for 100 % product tracing the images of the rejected products, marked with date and time stamps, are stored.

OCS
CHECKWEIGHERS

Highly specialized in precise product monitoring.   And high

Foreign object detection in packaged products
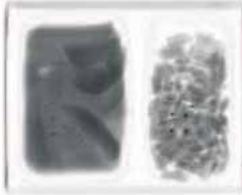
Metal parts, glass, stones, bones and other foreign objects with a high density in instant meals

Foreign object detection in packaged products

Metal parts, glass, stones, bones and other foreign objects with a high density also in a package, without a product in the background

Foreign object detection and tray recognition in packaged products

Metal parts, glass, stones and other foreign objects with high density in aluminium trays, additional check whether tray is present

Completeness check and foreign object detection in blisters
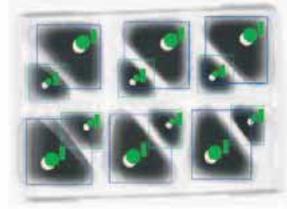

Half tablet in blister, metal parts and other foreign objects with high density in a package and blister

nly flexible for the specific application.

Filling level check and foreign object detection in crates (two layers)

Filling level check of the individual chambers of multi-chamber cups in a tray (packed in two layers)

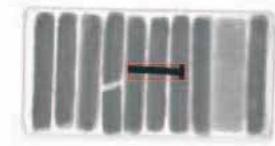Foreign object detection in unpackaged products

Metal parts, glass, stones, bones and other foreign objects with high density in a flow of bulk solids

Foreign object detection, seal and filling level check of packaged products

Metal parts, glass and other materials with high density in tubes

Foreign object detection, completeness check, shape check

Large and extremely small foreign objects consisting of metal, glass and other materials with high density and additional completeness check

Perfect application safety.

Precise checking results

High-performance camera
- Highest resolution for best checking results
- "Multi-Scanning" for high resolution X-ray images
- High signal-to-noise ratio for highest productivity
- High-performance camera with long lifetime

X-ray tube
- Type-approved industry-standard high-performance tube for extremely long lifetime
- Independent design of high voltage generator and collimator-tube-unit
- Encapsulated closed cycle cooling system with water for an efficient and for the food industry suitable cooling
- Metal-ceramics-tube for outstanding penetration of the products

Maximum safety

Work safety
Safety lock for the extension-limit of the conveyor unit
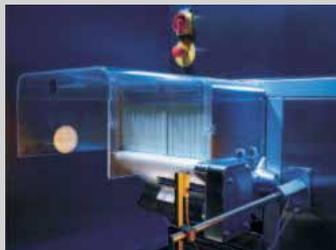
Perfect radiation safety due to safety curtains, hand guards, covers and light-barriers

Programmable access (option) control system to prevent password misuse
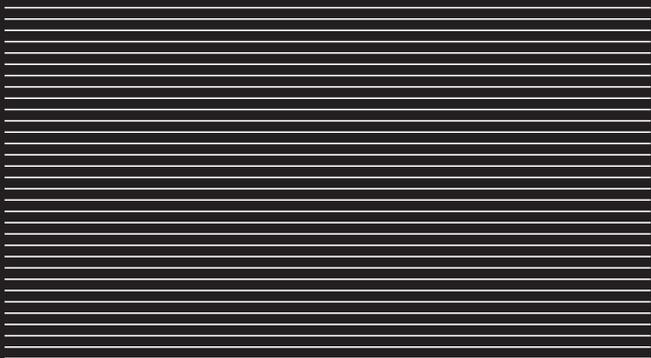
Perfect cleaning

Hygiene
Belt replacement without tools and removal of the conveyor unit for easy and efficient cleaning

Close to you with our worldwide service and sales network

Headquarters
OCS Checkweighers GmbH
Adam-Hoffmann-Str. 26
67657 Kaiserslautern
Germany
T +49.631.34146-0
F +49.631.34146-8690
info.ww@ocs-cw.com
www.ocs-cw.com

A Wipotec Brand

OCS

C H E C K W E I G H E R S