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СИСТЕМЫ УПАКОВКИ И РОЗЛИВА ОХУСНЕК, LEAKSНЕК Технические характеристики



GEA LEAKCHECK & OXYCHECK

Get fully residual oxygen content control and leak detection of all packages produced with thermoforming packaging machines. Until now, incorrect O₂-content and leaks in food packages were identified by random inspection. Defective products were thrown away since most detection systems were invasive. GEA LeakCheck and GEA OxyCheck units help producers save food, packaging materials and time by analyzing a sensor-sensitive, fluorescent spot inside the MAP pack. Packages with the wrong oxygen levels or leaks can then be automatically rejected using, for example, a GEA CombiPick package sorting and converging system.

Main applications

The GEA LeakCheck and GEA OxyCheck in-line quality control systems verify the O₂ content and integrity of packages for food products such as meat, meat substitutes, dairy or bakery products packed in a modified atmosphere after the form-fill-seal process.

Key benefits

GEA LeakCheck

Automatic testing of residual oxygen content and tightness of all produced MAP packs without losses

Non-invasive technique based on fluorescent sensor-sensitive spot applied on inner surface of package film

MAP pack seals and films remain unaffected saving large quantities of film and food product

Fully integrated in the thermoformer

Supply only packages with right residual O₂ content and no leaks after the form-fill-seal process

Increased food safety throughout the whole production volume

100% process monitoring - all MAP packs are tested

No sampling tests necessary, where typically only less than 1% of the packs produced are tested

Reliable and precise system with no human error possible

No negative impact on the production capacity

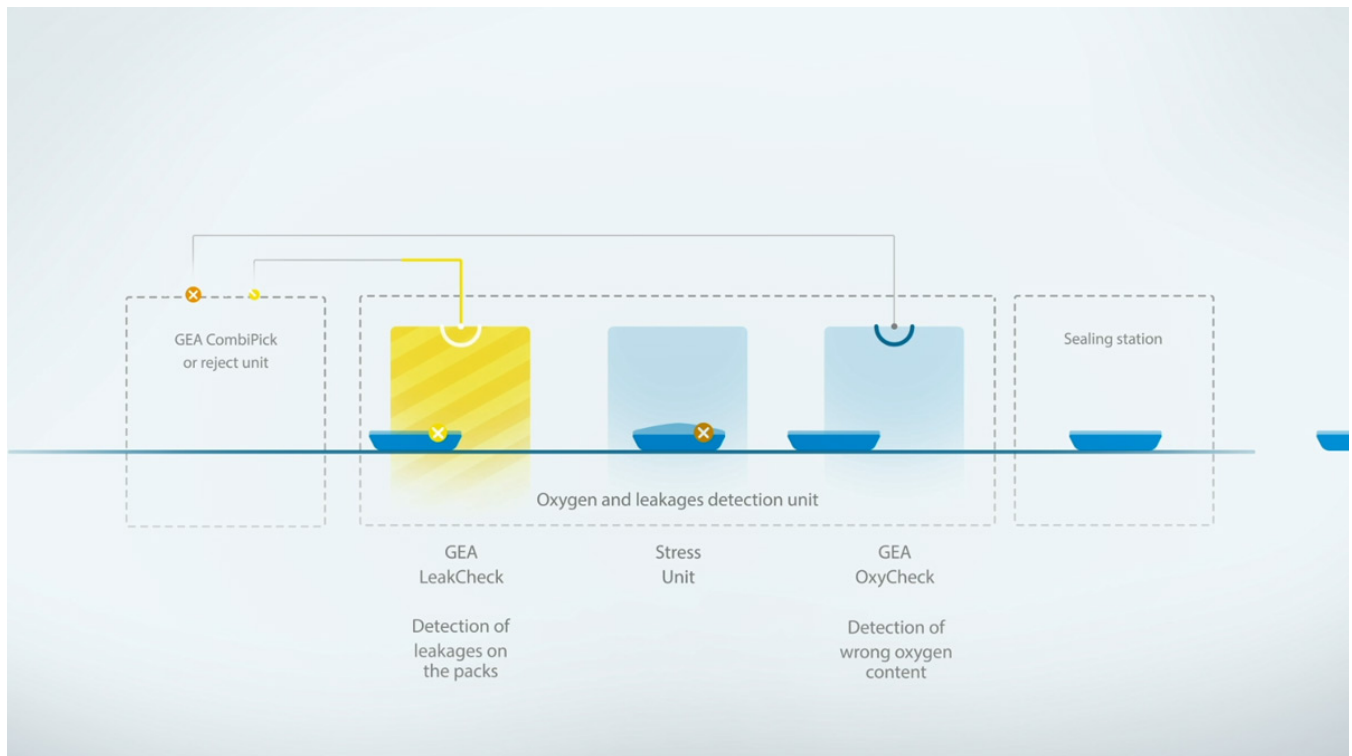
Significant time savings due to automated oxygen/leakage inspection process

No more manual testing by hand or visual inspection needed

Automatic rejection of defective packages

No labor-intensive tracing and tracking of out-of-specification packs

Verification of oxygen content and package integrity of MAP packs



The inspection system consists of the following steps: The first O₂ content measurement is taken by the GEA OxyCheck sensor installed right after the food packages leave the sealing station of the thermoformer such as GEA PowerPak or PowerPak PLUS. Further on, the GEA LeakCheck unit performs a stress test by applying compressed air pressure on all packs. After this, a second oxygen test unit re-checks the O₂ content. A difference in results points to a leak in the respective package.

Unique sensor spot technology

GEA OxyCheck uses the fluorescent properties of a special material. The top web films carry the GEA OxyCheck sensor spot printed on the inside as part of each package lidding. GEA OxyCheck optical sensors installed on the thermoformer project a light onto these sensor-sensitive spots and measure the wavelength of the light that fluoresces from the material to accurately determine the O₂ content.

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