

FIND THE LEAKING SEAMS INSPECTING HEAT SEALED PACKAGES

Good seals can only be made on clean material: any contamination between the seal and the package is no longer airtight. As a result, air and contaminants such as molds, fungus or bacteria can enter the package and ruin the product well before the expiration date.

Therefore, it is important to find the incomplete seams and leaking packages already on the production line.

Seal inspection through a printed film

Conventional vision systems (RGB cameras or X-ray) do not work when inspecting the heat-sealed packages for leaks, in particular if the package is made of printed plastic.

Hyperspectral imaging is the only imaging method that reliably finds the imperfect seals through the sealing film, even when the package is printed.

- Identify contaminants reliably
- Only method that works even through printed plastics
- Hassle-free setup, 100% inspection coverage
- High frame rate – fast pace
- Can be installed on the production line

CASE: INSPECTING BERGADER PRIVATKÄSEREI HEAT SEALED PACKAGES WITH SPECIM FX17

When the Bergader Edelpilz blue cheese got a new package, the seal inspection process faced a completely new challenge: the old equipment could not see the cheese crumbs breaking the heat sealing through the printed plastic.

To avoid the disadvantages of manual inspection, Minebea Intec started looking for a suitable machine vision technology that could be used for seal inspections. They first tried an X-ray system, but soon found out that would not work: faults could not be detected with 100% reliability.

Challenges:

- Old inspection process did not work with the new packaging
- X-ray was not reliable enough in tests
- Manual inspection has its downfalls and disadvantages

SPECIM FX17: PERFECT SOLUTION

Together with Specim's partner/distributor? STEMMER IMAGING, Minebea Intec development team examined the possibility to use hyperspectral imaging. The first seal inspection system that relied on the technology was based on Specim FX17 camera, and it was tested on-site.

"The results were very promising from the very beginning and quickly confirmed that this technology is perfectly suited to this application",

Markus Leibold is proud of the solution: "This system, which is unique to date, represented the perfect solution for our requirements. With it, we have been able to achieve the desired cycle speed of around 145 inspections per minute and attain virtually 100% reliability in the detection of heat-sealed joint faults."

Benefits:

- 100% reliability and coverage
- Fast inspection speed
- Integrated into the production line/existing inspection system/something something

Contact us: info@specim.com

Visit our website: www.specim.com

Follow us on social media: [@specimspectral](https://twitter.com/specimspectral)