News Release

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**In Validation Tests, Yoran Imaging’s Thermal**

**Imaging Inspection System Expedites Shift to**

**Sustainable Packaging Materials**

***Through automated 100% inspection and data capture,***

 ***company’s Process Analytical Monitoring (PAM) system***

***speeds transition to more recyclable substrates, including PE & PP.***

*Northern District, Israel* – **Yoran Imaging**, whichdevelops and supplies thermal imaging systems to optimize filling and heat-sealing processes on packaging lines, has successfully demonstrated the value of its thermal imaging-based heat-sealing inspection unit to expedite the incorporation of more sustainable packaging materials. Through exacting 100% inspection and operator-friendly metrics capture, the company’s **Process Analytical Monitoring (PAM)** unit has proven its ability to significantly accelerate best practices development and process validation for recyclable heat-sealable substrates, including polyethylene (PE) and polypropylene (PP). The PAM system also can significantly reduce materials waste – a benefit that climbs exponentially as more lines are outfitted with the solution.

For food & beverage companies utilizing package closure via heat-sealing, the push for more sustainable packaging substrates brings a noted challenge to this mission-critical step: narrower heat-sealing tolerances. Too little heat yields a weak seal, while too much risks burning the material. Discovering and maintaining the best-possible heat seal temperatures for various recyclable materials – which are often thinner and almost always more finicky than legacy substrates – is typically a time-consuming, trial-and-error endeavor.

Through its combination of precise, 100% heat seal inspection and real-time data capture, Yoran Imaging’s system has already been utilized by a prominent Europe-based food company to transition from conventional, non-recyclable packaging to a designed-for-recycling PET/Al/PE laminate. Such projects can help food & beverage companies align with increasing consumer demand for more sustainable packaging, as well as comply with mandates such as the EU’s Packaging & Packaging Waste Regulation and industry-wide pledges like Packaging Commitment 2025.

**Filling a need for more comprehensive inspection and data collection**

Imprecise inspection by sampling has long been the norm on high-speed packaging lines, leaving vital aspects of filling and sealing procedures unchecked, unmonitored and therefore unharnessed. Yoran Imaging’s Process Analytical Monitoring system replaces manual sampling with automatic 100% product inspection and, simultaneously, provides unprecedented levels of packaging line insight for ongoing production improvements.

In addition, while data capture continues to expand in a variety of manufacturing settings, technological hurdles and cost-benefit limitations have delayed its adoption by wide swaths of food & beverage packagers. By translating volumes of filling and heat-sealing data into real-time, dashboard-ready metrics, Yoran Imaging’s systems overcome longstanding ROI hesitancies by empowering line operators to effectively preempt out-of-spec products or equipment failures before they occur. This “uptime is money” benefit (combined with material waste reduction) has several major food manufacturers currently utilizing the technology.

In being among the first to utilize thermal imaging technology specifically for filling and heat-sealing processes, Yoran Imaging aims to bring F&B customers a set of layered benefits. For one, it eliminates outdated sampling through cost-effective, comprehensive and contact-free inspection of each product, vastly decreasing the likelihood of defective products clearing what is often the final pre-market gateway: package sealing.

At the same time, productivity also can be substantially increased, with user-friendly data alerting operators when preset quality or OEM parameters are degrading, providing guardrails and guideposts that minimize machine downtime through informed preemptive measures. Helpfully, the company’s systems also occupy a small footprint and are easily integrated into a wide range of packaging lines.

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**About Yoran Imaging**

Specializing in the food & beverage sector, Yoran Imaging utilizes cutting-edge thermal imaging technology to revolutionize the filling & heat-sealing process on packaging lines. Drawing upon more than two decades of thermal imaging inspection experience, the company’s solutions provide non-invasive, 100% in-line inspection combined with production-optimizing data collection and analysis. This real-time sealing data allows for enhanced predictive maintenance, reduced labor investments and minimized materials and product waste.

Yoran Imaging’s groundbreaking Process Analytical Monitoring system replaces inadequate manual sampling with comprehensive product inspection, provides unprecedented levels of packaging line insight, and preempts production failures before they occur. The result is dramatically heightened brand protection, smarter manufacturing processes, and a more efficient packaging operations. For more information visit [www.Yoran-Imaging.com](http://www.Yoran-Imaging.com).