

Cutting edge **IRIS** solution drives super-performing, sustainable machine learning

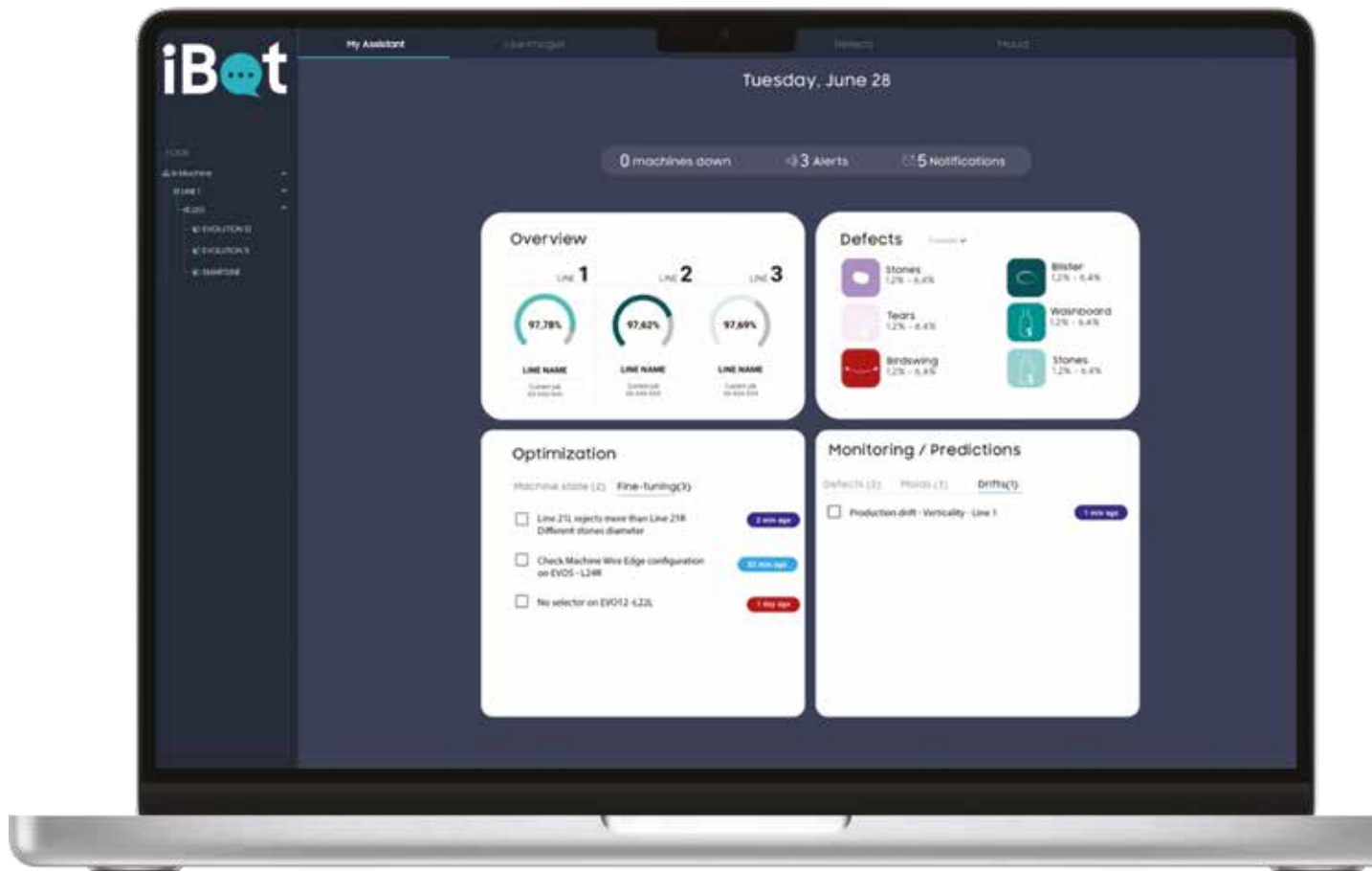
iBot uses AI to enhance defect analysis and accelerate process improvement, writes Majd Rahmani, technical director at IRIS Inspection Machines. With today's customers seeking packaging that can help them to better deliver on their zero carbon ambitions, glass packaging is facing unprecedented challenges from other materials. Here's why glass is adapting every aspect of manufacturing to the improvement of its environmental performance. For an energy-intensive business, that includes maximizing pack-to-melt ratios - all while minimizing unnecessary rejects.

SHOWCASING EXCELLENCE

As leading designer, developer and manufacturer of smart inspection solutions, IRIS recently demonstrated its latest AI-inspired innovation to manufacturers at Glassman Asia in Seoul, as well as at the AFGM Conference in Vietnam. iBot is the new super

As glass container inspection tool, IRIS' eco-friendly iBot improves product quality, reduces costs and boosts performance. In inspection machines it offers real-time insights, corrective intervention and seamless integration - all while reinforcing the company's commitment to advancing glass manufacturing with AI technology.





With iBot, we provide the right information at the right time and to the right person - on the machine itself or remotely - to help monitor performance and initiate potential changes. In summary, iBot offers a global vision as well as an incomparable in-depth analysis to our glass customers. Majd Rahmani, Technical Director at IRIS Inspection Machines

assistant from IRIS. Drawing deeply from the machine-learning capacity of industry 4.0, iBot goes far beyond monitoring and integrating the prediction of process defects into an intuitive tool.

INTUITIVE PROCESS IMPROVEMENT

All this brings substantial benefits to operators and managers alike. That's because, fundamentally, iBot improves delivered product quality by



eliminating critical defects. The technology also drives cost-savings in both operations and process improvement. Operationally, more accurate parameters, predictions and monitoring will collectively

lead to fewer false rejections by improving the recognition of genuine defects. Here iBot also identifies defects that are aligned to process elements as it simultaneously analyzes the trend to accelerate process improvement. While any classic MES will inform users with a large variety of statistics, iBot serves instead to complement that feature - giving real time information on measured values, as well as for any given section. But that's not all. iBot understands priorities to be implemented on different lines, essentially spotlighting any major defects - which are constantly evolving. By identifying drifts from



the specification and making comparisons that traverse collected data during manufacture it can trigger the process of corrective actions without delay. Indeed, that's exactly iBot's great strength.

AVAILABLE TO LICENSE

IRIS offers iBot on an annual subscription via a licensing system. Getting started is easy and installation requires neither internet nor cloud access. Not only. iBot is fully com-

patible with the company's Evolution range, which means it can connect with the customer's existing information system. With iBot, IRIS provides the right information at the right time to the right person -whether on the machine itself or remotely- thereby monitoring performance and initiating changes. The result is reliability and replicability on the production line - all delivered by AI to give glass-makers better environmental and cost performance across the business. ■

ABOUT IRIS INSPECTION MACHINES

A subsidiary of Wisetec Group and founded in 2002, IRIS is a leading designer, developer and manufacturer of intelligent inspection solutions for glass containers. IRIS masters the entire production of machines - from ideas and concepts to the production of CPU boards and on-site installation. The company offers precise and innovative inspection machines that have reduced dependence upon the human factor to increase glass plant productivity, quality and efficiency.

Achieving 95 percent of sales outside of France, IRIS comprises an international team of engineers, developers, draftsmen and technicians - all of whom speak a total of 17 languages. Thanks to a network of international agents and technical support service centres, IRIS supports customers in more than 50 countries throughout Asia, Europe, the Americas, Africa and Australia. The company's inspection solutions are non-contact and equipped with the latest generation cameras, lenses and light sources. Each is artificial intelligence-based and features both self-adjusting and self-learning characteristics - including automatic recognition of glass defects. IRIS state-of-the-art inspection solutions incorporate advanced software and optics that comply with the smart factory.

IRIS Inspection machines

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