Genius in a bottle

The range of Genius vision systems by Applied Vision has expanded to inspect the curdle on aluminum drinks bottles. Mónica Higuera reports.

Applied Vision has been offering its range of Genius vision systems for metal containers to inspect for defects in shells, foil ends, easy-open ends, converted ends, corners, tube and three-piece cans.

For Exall's bottles, Applied Vision developed a digital four-camera configuration for 300-degree inspection of the curdle. "This, together with custom-designed LED lighting, optics and our intuitive Genius user interface, provided an effective yet easily manageable solution," said Applied Vision's global sales manager, Darren Houch.

"Ease-of-use and reduced dependency on operator skill are part of the system's attributes," the user interface is completely set up by Applied Vision and an operator merely sets up when bottle decoration changes," said Houch.

"This is really achieved with the interface's colour graphs display and touch screen; other than that, operator involvement is minimal."

"In Exall's process, the aluminum bottles come out from the seeder onto the conveyor and pass through the inspection stations positioned on the line. As every bottle passes through a station, images are acquired, and the system performs the various algorithm-based inspections to determine bottle quality. The Genius systems perform automatic 100 percent inspection of the curdle area, as well as for wall warpage or misalignments, and neck decoration defects."


Eva has installed Applied Vision's system on a line of 12 impact-extrusion lines in Ohio. Quality assurance manager Greg Consider is very pleased with the equipment: "These systems eliminate the worry over defective units getting out to our customers."

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