

Session	Poster Presentation
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Check Detection in Container Glass with Intelligent Cloud Masking

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Biography

German citizen, graduated with a degree in business administration from the University of Saarland in Saarbrücken, Germany.

Project Manager at PricewaterhouseCoopers, leading process improvement projects at an international level. Strategic Marketing Manager in the automation industry in Germany.

In the container glass industry since 2010, most recently as Head of Marketing and Product Management at Heye International

Abstract

Check detection is one of the most important quality inspections in container glass production. The Ranger 2 from Heye International has been developed to exceed the customer's quality expectations, by using latest software technologies.

The principle: Every container produced must be regarded as a unique object and any check detection concept has to respect this. For this reason each Ranger 2 system is using Heye's unique Intelligent Cloud Masking (ICM). Zones of constant reflections are created (masked) automatically for each container individually, as every bottle or jar is slightly different. A teaching of the system is not necessary, moreover a teaching might lead to less precise results.

Of course, during the set-up phase, the areas of interest (AOEs, potential areas of checks) are defined by the user. Then, during the production run, the Ranger 2 system is able to detect different variations of checks in the areas. In sum, the solution leads to extrem precise results, as customers' confirm.

Fully modular and scalable system: A Ranger 2 system consists of one camera, collecting five images simultaneously via five lenses and fiber optic image guides, the illumination unit and the control unit with the software for image processing, including the decision "container okay or not okay". Based on the budget and needs of the glass plant, you can start with one system and add any number of additional systems whenever needed.

