

# ATIV Conference 2025: HEYE to unpack smart glassmaking in Parma

As the global glass community descends on Parma, Italy, for the 2025 ATIV Conference on June 12–13 – an event renowned for bridging glass science, art and technology – HEYE is set to leave a lasting impression as always, this time with two cutting-edge presentations that underscore its leadership in intelligent glass manufacturing solutions.



**W**ith decades of experience in glass container production, Heye International continues to push technological boundaries. At this year's ATIV Conference in Parma, the company will be presenting its pioneering advancements from both ends of the production line, the Hot End and Cold End - emphasizing energy efficiency, quality control and automation.

## **HARNESSING INDUSTRY 4.0: THE HEYE SMART PLANT**

In a presentation titled 'Heye Smart Plant to Increase Efficiency and Energy Saving,' company Sales Manager for Hot End Solutions Anastasiia Bratash will be presenting the Heye Smart Plant as a forward-thinking solution that brings

Industry 4.0 to life in the container glass sector. This concept is built to meet the modern demands of efficiency, safety and profitability - with a core focus on minimizing environmental impact. At the heart of the Smart Plant approach is a seamless integration of data, control systems and intelligent process automation.

Here Smart Data enables the real-time collection and analysis of both production and quality parameters, providing plant operators with actionable insights that support proactive decision-making. Smart Machine Controls introduce advanced user interfaces and servo technologies like E-Timing, which together ensure precision in the forming process and enhance system responsiveness. Smart



Process Intelligence then builds on this foundation with closed-loop control mechanisms that automatically adjust forming parameters, supporting the production of high-quality lightweight containers while optimizing resource usage. Indeed Bratash's presentation will demonstrate how the Heye Smart Plant not only elevates performance on the factory floor but also aligns with broader industry goals around sustainability and cost efficiency - a compelling look at how digital transformation can create mean-

ingful, measurable value in glass manufacturing.

### **PRECISION INSPECTION AT THE COLD END**

Delving into Heye International's latest Cold End technologies, company Sales Manager for Cold End Solutions Oriol Gil will then be speaking of the new levels of precision and adaptability to quality control in glass production in a presentation titled 'Check Detection and Wall Thickness Measurement in Container Glass Production'. Central to this innovation is the Ranger 2 inspection system, a high-performance platform featuring Intelligent Cloud Masking (ICM). Unlike traditional systems, which rely on fixed parameters or manual calibration, Ranger 2 automatically adjusts to each unique container. ICM dynamically creates reflection zones tailored to the specific shape and characteristics of every bottle or jar, enhancing detection accuracy and eliminating the inefficiencies of manual "teaching." Complementing the Ranger 2 is Heye's advanced wall thickness control system. This solution employs contactless chromatic confocal sensors to measure container walls with micron-level precision. The ability to inspect lightweight containers without physical contact ensures both high accuracy and minimal risk of dam-

age. Beyond quality assurance, this system supports sustainability by enabling producers to use less raw material while maintaining structural integrity. The result is a significant reduction in energy consumption and CO<sub>2</sub> emissions - a key metric in today's environmentally conscious marketplace. Gil's insights will showcase how Heye's Cold End solutions combine innovation with practical benefits - helping manufacturers meet rising quality expectations and environmental standards without compromising on performance.

### **A HOLISTIC VISION FOR SUSTAINABLE GLASS PRODUCTION**

Heye International's presence at the ATIV Conference exemplifies its commitment to practical, future-ready innovations that serve the evolving needs of the container glass industry. By focusing on intelligent automation, energy savings, and superior quality control, Heye offers glassmakers tangible tools to meet production challenges head-on. The company's dual presentations provide a rare look into how digital transformation is reshaping the entire container glass value chain—from forming to final inspection. As the ATIV Conference continues to foster collaboration and creativity, Heye International stands out as a beacon of technological excellence and sustainable progress in glassmaking. ■

## **ABOUT HEYE INTERNATIONAL**

Based at Obernkirchen, Germany, Heye International GmbH is one of the container glass industry's foremost suppliers of production and inspection technology, high performance equipment and production expertise. Its mechanical engineering has set industry standards for more than six decades, significantly contributing to our customers' success. Heye's vision is to ensure highly cost-effective, sustainable and safe operation of glassworks worldwide and thus further strengthen the position of glass as the packaging material of the future. The company considers glass as the purest and most natural packaging on the planet. Here's why Heye's actions are driven by experience, courage and passion as it strives to make a positive impact on the environment and health while fostering a sustainable future. Today. Tomorrow. Together.



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