

A technology mix from HEYE that's honed for excellence

With upcoming Glasstec highlights this year including new AI-powered detection systems, NNPB lightweight technology and enhanced safety features like Blank Side Protection Grids, HEYE INTERNATIONAL will be showcasing its solutions for a smarter glass production process, as well as its SmartLink for advanced data analysis and the BlankSideRobot for efficient mould lubrication.

Excited to showcase its latest advancements at glasstec 2024 in Düsseldorf, Heye International is set to exhibit the Heye SmartLink this year, which provides glassmakers with detailed manufacturing process data for individual analysis - acting as a secure data gateway. Users can store and analyse equipment data to gain insights into key production metrics, utilising features such as JSON data exchange format and MQTT-Broker communication for a truly smart manufacturing process.

BLANKSIDEROBOT

Another highlight at the Heye stand will be the introduction of the company's Multilevel Safety and Protection Concept, featuring the Heye BlankSideRobot

and Heye Protection Grids designed to enhance safety and efficiency on the blank side of IS machines. The Heye BlankSideRobot, with its sleek and compact design, performs mould lubrication on the blank side. In addition to key features such as precise swabbing with minimal lubricant consumption and the elimination of the need to reject bottles after swabbing, significant emphasis has been placed on ensuring the safety of both the system and the operating personnel. The robot is equipped with a three-stage collision detection and prevention system to prevent potential collisions between the robot and the invert, along with intelligently designed safety features aimed at enhancing the safety of the personnel.

PROTECTION GRIDS

Complementing the BlankSideRobot are specially developed Heye Blank Side Protection Grids. The grids, positioned on each section and integrated into the machine control system, provide additional safety on the blank side. They can be synchronised with the Heye BlankSideRobot or function autonomously. When operating in standalone mode, the protection grids are controlled manually, facilitating tasks such as manual lubrication or section maintenance on the blank side. In combination with the Heye BlankSideRobot, the protection grids synchronise with the robot's lubrication cycle, ensuring optimal safety. As a next step in the evolution of a proven and successful product, Heye will

showcase the Dual Motor Shears at their stand. The key enhancement lies in the redesigned shear arms featuring an innovative gob guide. This new design offers improved rigidity, resulting in enhanced precision and extended durability for this easy-to-maintain equipment.

SMART PLANT

Heye's Smart Plant, which combines various innovative solutions and elevates glass-making technology to a new level, will be showcased at the glasstec exhibition with two products: Heye GobMaster and Heye SmartLink. Heye GobMaster is a camera-based system, which provides precise control of the gob weight in BB production processes. The software anal-



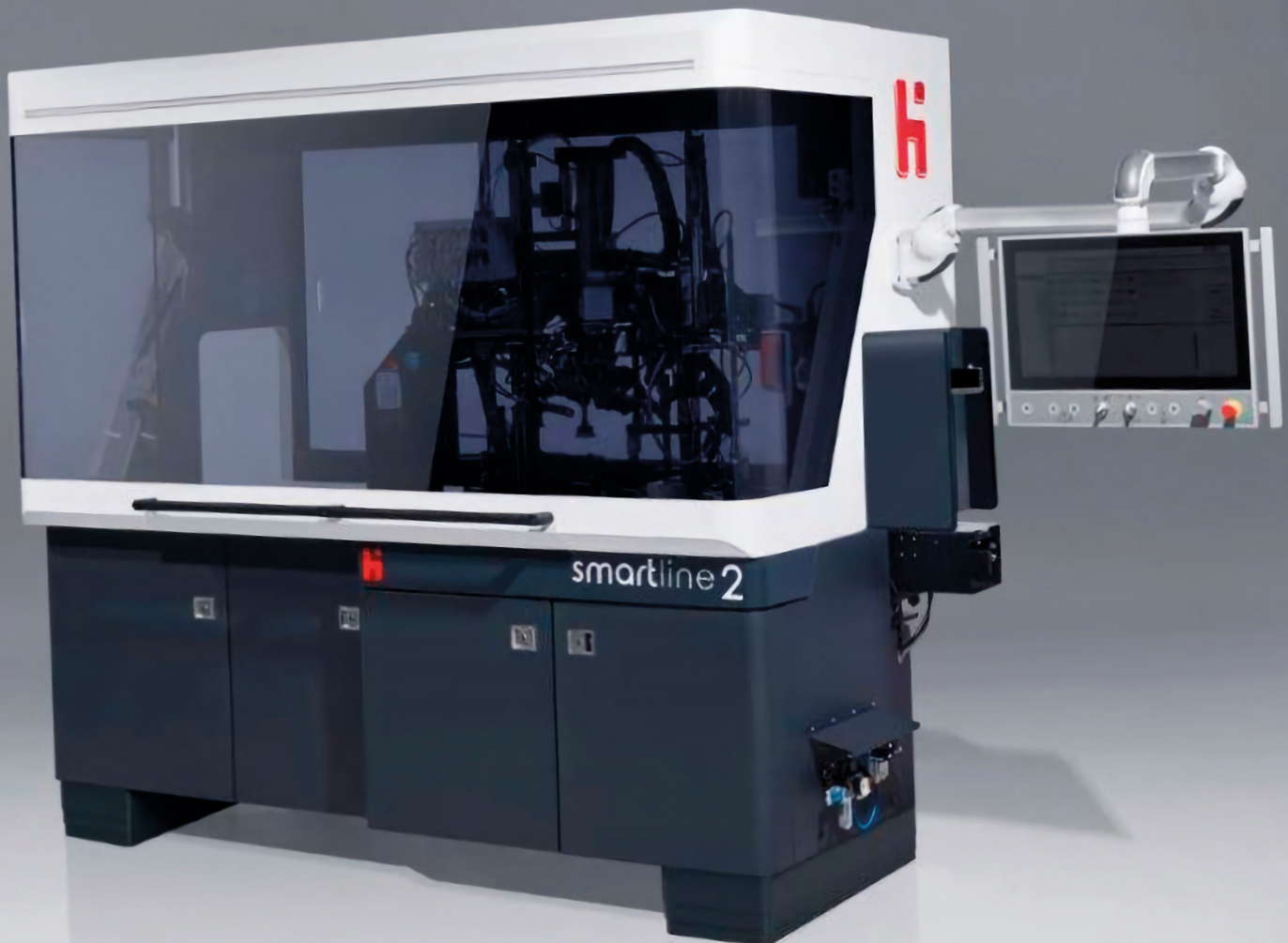
yses geometric data from 3D images generated by two cameras, allowing for accurate calculation of the gob volume and weight. Should malfunctions or deviations be detected, the system responds immediately by rejecting the article at the hot end. Simultaneously, mechanical adjustments are made automatically to correct the deviations by adjusting the tube height and plunger position at the feeder. As

equipment for the cold end, the SmartLine 2 to be presented at the show contains an improved motion control concept, reducing the costs of spare parts inventory and improving performance.

Further new developments have been made in the area of AI. As a complement to the Ranger 2 check detection system, the company is launching its additional image processing variant that includes additional AI functions.

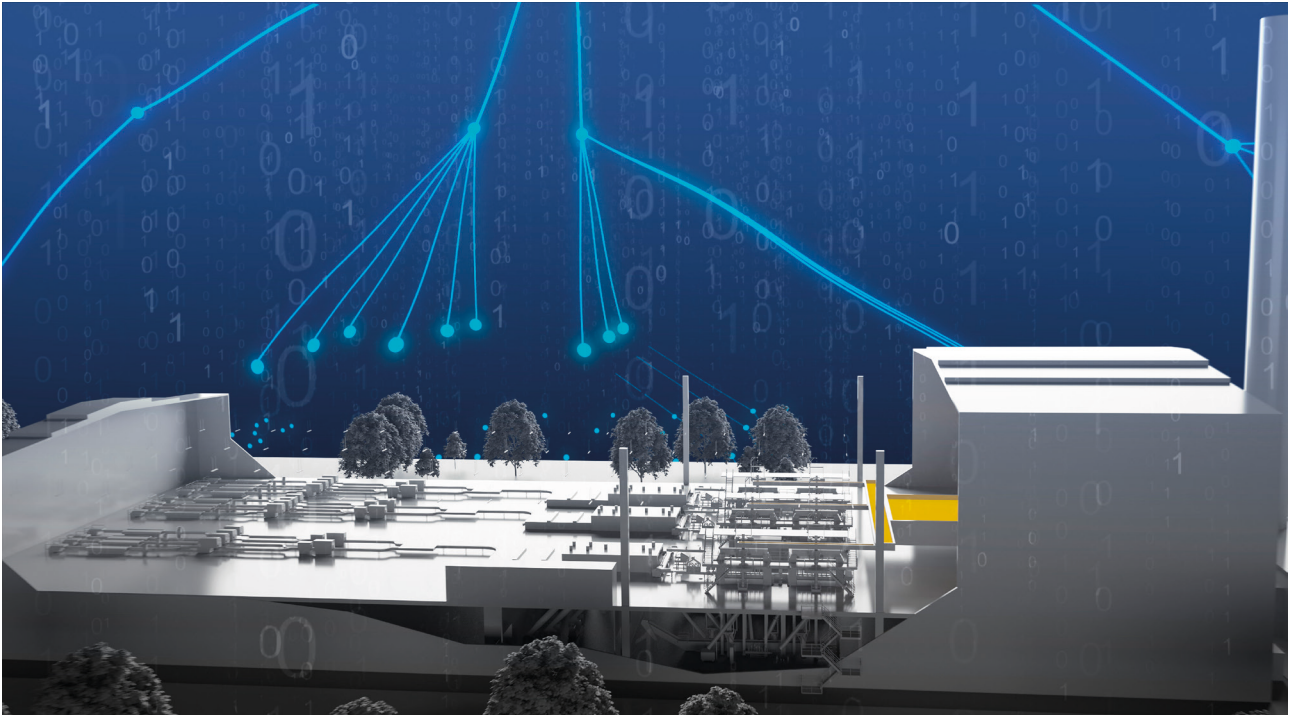
NNPB LIGHTWEIGHT TECHNOLOGY

Fundamentals of good glass-making never change – new technologies enhance them. The experts at Heye see themselves as 'glass people' with the



TRADE SHOW

Trade show

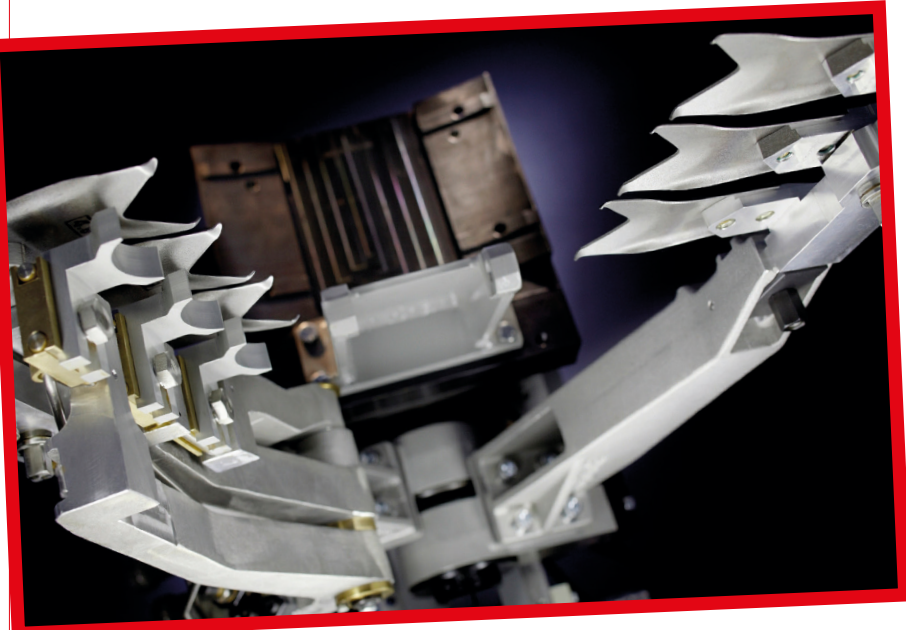


play where trade show attendees can learn how they can take their glass production to new heights. ■

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necessary expertise to produce good containers. This is always a suitable mix of innovations and fundamentals. A tried and tested operation is the NNPB lightweight technology, which is more relevant than ever today: less raw material and energy, higher quality and added value with higher output, revenue and margin. To talk to Heye's experts at glasstec 2024, the company stand at 14C18 will have product highlights on dis-

ABOUT HEYE INTERNATIONAL

Based at Obernkirchen, Germany, Heye International GmbH is one of the international glass container industry's foremost suppliers of production technology, high performance equipment and production knowhow. Its mechanical engineering has set industry standards for more than six decades. Extensive industry expertise, combined with the positive attitude and enthusiasm of Heye International employees is mirrored by the company motto 'We are Glass People'. Its three sub-brands HiPERFORM, HiSHIELD and HiTRUST form the Heye Smart Plant portfolio, addressing the glass industry's hot end, cold end and service requirements respectively.