

PRESS RELEASE

BrauBeviale trade show

Gentle on resources and digitally networked: the next generation of glass fillers from KHS

- Optimum product quality and high line availability
- Energy consumption and CO₂ emissions greatly reduced
- Modular design for maximum flexibility

Dortmund, November 12, 2019 – Efficient, environmentally friendly and gentle to products: the next generation of the proven KHS Innofill Glass DRS filler sets standards in sustainability, flexibility and automation. At BrauBeviale the systems supplier will be presenting the glass bottler in what is known as its ECO variant to the public for the first time. The DRS ECO is distinguished by its lower energy consumption (which is reduced by up to 20%), with CO₂ emissions even falling by as much as 50%. Thanks to digital networking and monitoring the glass bottle filler also provides optimum product quality and increased line availability.

“Many bottlers are expanding their portfolios at the moment. We’re seeing an increased demand for glass containers in particular,” says Manfred Härtel, filling product manager for KHS. “With the Innofill Glass DRS ECO we provide pioneering filling technology which meets the growing market requirements for flexible and efficient production processes,” he continues. The new KHS system bottles beer, mixed beer beverages, cider and soft drinks. It can easily fill containers holding between 0.1 and 1.5 liters, processing up to 80,000 0.33-liter bottles an hour, for instance.

In addition to being flexible and efficient, the DRS ECO is also convincing when it comes to sustainability. The new filler is thus called because it makes use of KHS' unique ECO system, a special evacuation and CO₂ purging process for glass bottles. With this it consumes up to 50% less CO₂ compared to conventional methods. KHS has also cut the amount of energy used by a maximum of 20% thanks to its optimized vacuum pump.

Automation for optimized filling and sanitizing processes

The KHS glass filler also boasts a number of intelligent digitalization and automation technologies. The DIAS diagnostic assistance system, for example, monitors the entire filling process. "There are pressure sensors installed in every single filling valve which continuously detect any deviations from target values or bottle breakages," explains Härtel. The evacuation and CO₂ purging processes especially are monitored to ensure the lowest possible oxygen pickup. DIAS recognizes broken bottles in all filling phases and triggers the bottle burst routine fully automatically. KHS' SOFTSTOP bottle flowgate is also of great importance when it comes to product protection. It interrupts the flow of bottles gently and quietly, even at maximum speed, for a very homogenous filling process and constant foaming quality. Oxygen pickup is kept at a very low level.

The camera-controlled high-pressure injection control system called OPTICAM enables the head of foam to be monitored and regulated fully automatically, cutting product loss by up to 50%. The new fill level probe on the Innofill Glass DRS also ensures optimum filling results. It not only measures the fill level but also monitors the CIP process. The glass bottle filler can also be fitted with fully automatic CIP caps. These shorten changeover times and lower the amount of cleaning media used.

The hygienic QUICKLOCK fast-acting locking system makes for trouble-free format part changeovers, with bottle guide parts exchanged with just a

few manual adjustments performed without tools. This reduces conversion times by up to 30% to just 15 to 20 minutes.

Standardized basic structure for great flexibility

With its new generation of fillers KHS is pushing ahead with a project which is to prove groundbreaking for the system supplier's entire product spectrum. "We plan to give all our fillers the same modular machine structure and as many identical parts as possible in the future," Härtel states. This means that our customers can quickly and flexibly retrofit their base machines with additional components – depending on how the beverage market and their own production policies develop. This gives them greater security for the future."

For more information go to: www.khs.com/en/media

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Press release captions

Innofill Glass DRS ECO

The Innofill Glass DRS ECO combines the tried-and-tested KHS filling system with digital, resource-saving technologies. The glass filler thus scores on both efficiency and sustainability.

Innofill Glass DRS ECO_2

With the latest generation of the KHS glass filler users save up to 50% in CO₂ emissions and a maximum of 20% in energy.

Filling system

The Innofill Glass DRS ECO meets the beverage industry's current demand for flexible filling of a large product portfolio. The glass bottling machine can fill beer, mixed beer beverages, cider and soft drinks into bottles holding between 0.1 and 1.5 liters.

Manfred Härtel

Manfred Härtel, filling product manager at KHS, has played a major part in the further development of the glass filler.

About KHS GmbH

KHS GmbH is one of the leading manufacturers of filling and packaging systems for the beverage, food and non-food industries. The KHS Group includes the following companies: KHS GmbH, KHS Corpoplast GmbH and numerous subsidiaries outside Germany, located in Ahmedabad (India), Sarasota and Waukesha (USA), Zinacantepec (Mexico), São Paulo (Brazil) and Suzhou (China).

KHS GmbH manufactures modern filling and packaging systems for the high-capacity range at its headquarters in Dortmund, Germany, and at its factories in Bad Kreuznach, Kleve and Worms. The group's PET expertise is pooled at KHS Corpoplast GmbH in Hamburg, Germany, where innovative PET packaging and coating systems are developed and produced. KHS is a wholly owned subsidiary of the SDAX-listed Salzgitter AG corporation. In 2018 the KHS Group and its 5,081 employees achieved a turnover of around €1.161 billion.

Contact for journalists

Sebastian Deppe
Sputnik GmbH
Press and PR
Hafenweg 9
48155 Münster
Germany
Phone: +49 251 6255 61243
Fax: +49 251 6255 6119
deppe@sputnik-agentur.de
www.sputnik-agentur.de

Contact for publishers' representatives

Eileen Rossmann
Mediaberatung
mmb mediaagentur gmbh
Rotebühlplatz 23 (City Plaza)
70178 Stuttgart
Germany
Phone: +49 711 26877 656
Fax: +49 711 26877 699
eileen.rossmann@mmb-media.de
www.mmbmedia.de