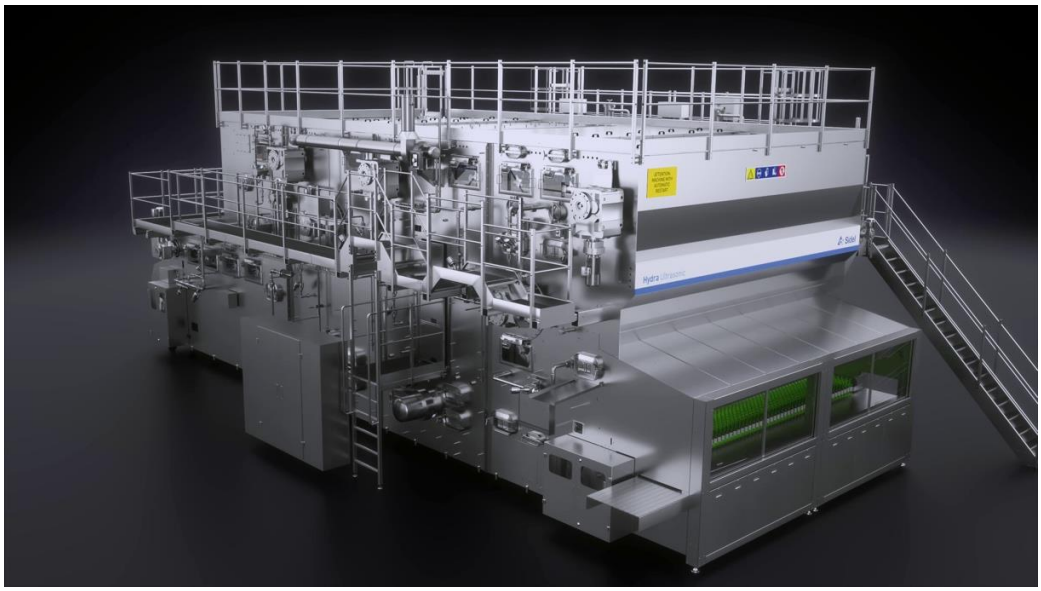
PRESS ARTICLE

25/11/2024

Sidel introduces its breakthrough bottle washer with powerful dual technology – Hydra Ultrasonic



With beverage bottlers requiring a solution that reduces production costs while improving their environmental footprint, Sidel has launched its new bottle washer which combines chemical and ultrasound technology for the highest performance.

Sidel will unveil Hydra Ultrasonic for the first time at the international trade show, BrauBeviale.

The growing focus on the environmental impact of packaging, combined with reuse targets set by legislation, is driving increased demand for returnable glass and PET bottle solutions. These options significantly reduce the need for primary raw materials while ensuring products are delivered safely to consumers.

As the beverage industry further embraces the benefits of refillable returnable glass bottles, manufacturers require bottle-washing technology to safely ensure bottles are hygienically cleaned before being returned to consumers. To eliminate dirt and debris from bottles the washing process requires a precise balance of temperature, concentration of chemical detergents and time.

Identifying the need for a high performing bottle washing solution while achieving substantial energy, water and chemical savings, Sidel has developed the Hydra Ultrasonic.

“Real progress means doing more with less. That's why, in developing our new bottle washing technology, we set ourselves two objectives: to improve the machine's washing capacity, while at the same time reducing its overall consumptions and carbon footprint,” said Andrea Solfa, Product Manager at Sidel.

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Controlled washing quality
The bottle washer combines the use of chemicals and ultrasonic technology, considerably increasing the mechanical effect and thus reducing the needed washing time and the temperature required, while improving the machine's performance.

During the bottle cleaning process, Sidel's Hydra Ultrasonic achieves high washing efficiency on both interior and exterior walls, even removing some caustic resistant types of dirt. Through this improved washing process, carrier beams are also effectively cleaned thanks to the mechanical effect of ultrasound. The washing process is competitive in performance, leading to lower rejection rates, and therefore increasing production rates by up to 15%[1].

Increased sustainability
The addition of ultrasonic technology combined with the traditional use of chemical agents has an important effect on the overall environmental impact of the machine. The new bottle washing solution removes dirt and debris with greater efficiency at a lower temperature throughout the bottle washing process, resulting in a 20% reduction in steam consumption[2] and a 15% reduction in water consumption[2]. At the same time, by enabling 100% electrification through the heat pump, the new Hydra Ultrasonic replaces the use of steam with hot water, providing a further cut in CO_2 emissions.

Additional cost savings
The new Hydra Ultrasonic supports beverage bottlers to reduce their production costs through total cost of ownership (TCO) savings. The solution is a profitable investment for manufacturers as it requires shorter washing time, thus far fewer components such as motors, pockets and chain length, and reduces plant heating by up to 50%.

As a result of the reduced washing time, so reduced number of components, the Hydra Ultrasonic achieves a 20% reduction in overall footprint compared to traditional bottle washing solutions. Its advanced technology also requires less maintenance and a reduced level of cleaning.

Hydra Ultrasonic will be premiered at BrauBeviale, the international trade show for the beer and beverage industry, in Nuremberg, Germany from 28 – 30 November 2023. Visitors to Sidel's stand in Hall 7A, Booth 223 will be able to experience the dual technology bottle washer through an interactive 3D animation.

Find out more about Sidel's bottle washing technology and how you can access this kind of support for your business on the Sidel website.

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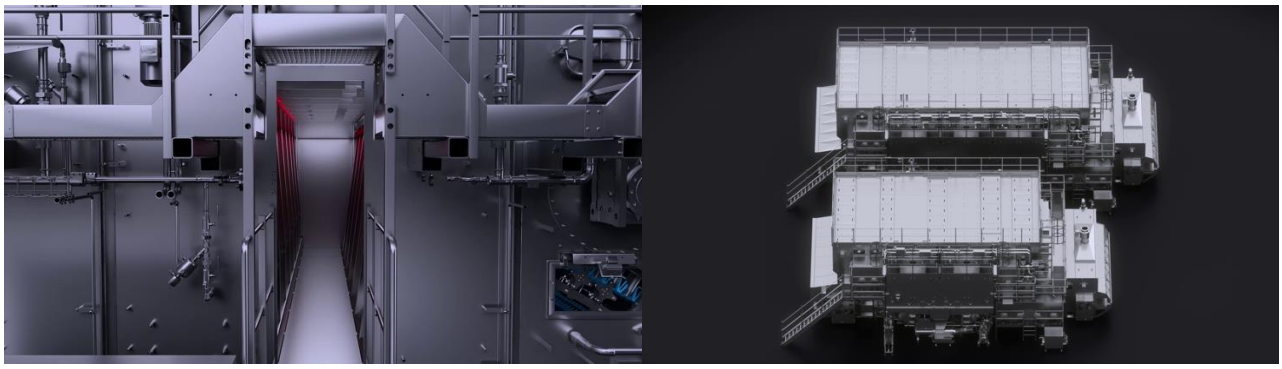

1. Suitable for +10/15% production rate increase (with 75°C washing)
2. Comparison with previous model. Calculation hypothesis: Formats: 330ml - 250g - 60.000bph, 660ml - 450 g - 40.000bph, fresh water temperature 20°C, bottle infeed temperature 25°C, bottle outfeed temperature 35°C

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Sidel is a leading global provider of packaging solutions for beverage, food, home and personal care products in PET, can, glass and other materials.

Based on over 170 years of proven experience, we help shape the factory of tomorrow, through advanced systems and services, line engineering, eco-solutions, and other innovations. With over 40,000 machines installed in more than 190 countries, Sidel has 5,000+ employees worldwide who are passionate about providing equipment and service solutions that fulfil customer needs.

We continuously ensure we understand the evolving business and market challenges our customers face and commit to meeting their unique performance and sustainability goals. As a partner, we apply our solid technical knowledge, packaging expertise and smart data analytics to assure lifetime productivity at its full potential.

We call it **Performance through Understanding**.

Find out more at www.sidel.com and connect with us

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