

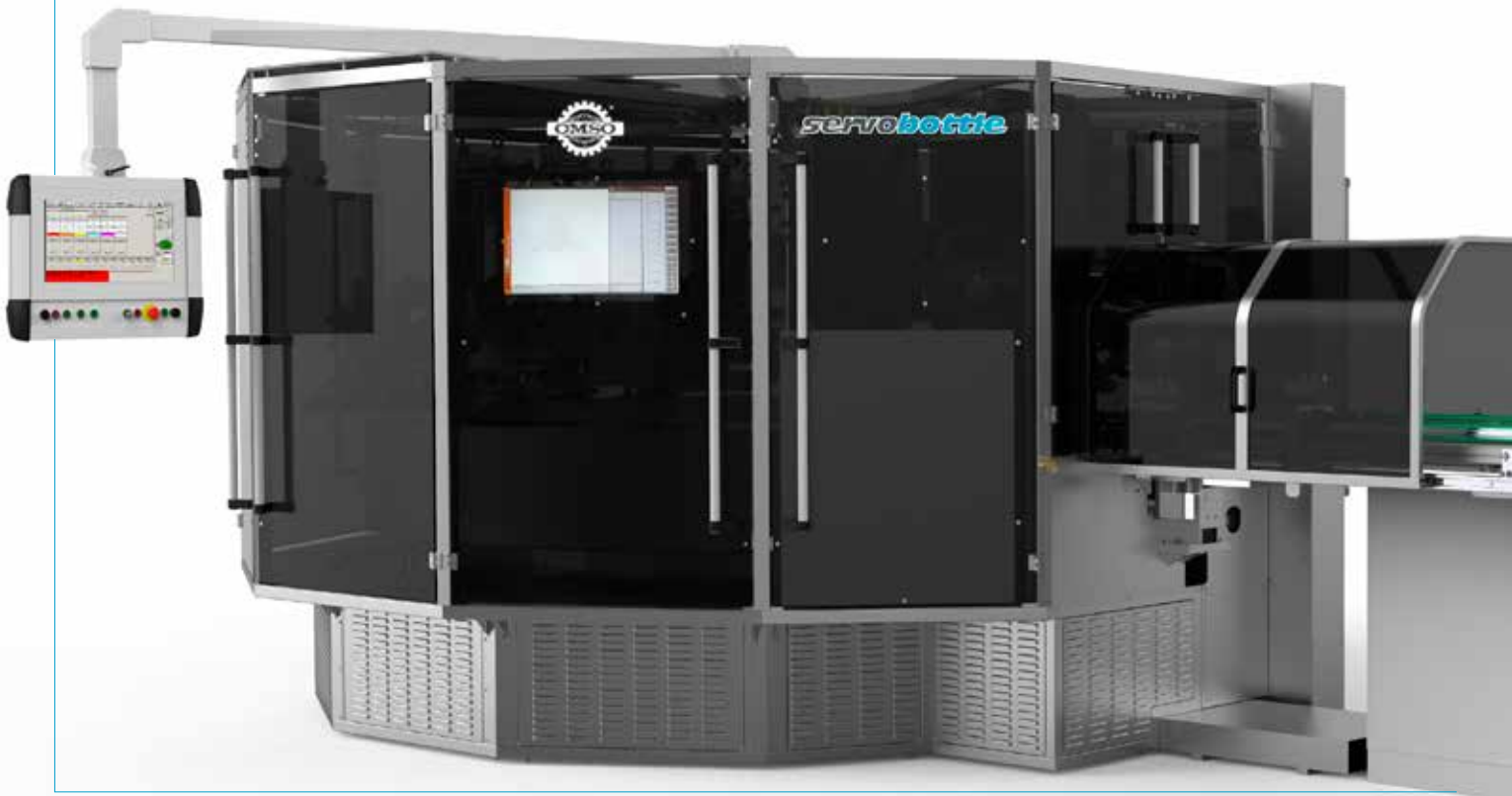
Trailblazing innovations in OMSO's Servobottle and SB021 machines

Screen printing

Founded in 1952, OMSO is recognized globally as a leader in the production of screen printing and decoration machines for three-dimensional objects. With its head office in Reggio Emilia, the Italian company operates an 11,000-square-

metre manufacturing facility where it develops technologically-advanced machinery for the decoration of glass containers within the beverage, spirits, cosmetics and pharmaceutical industries. Thanks to an extensive global distribution network, OMSO supplies over 85 coun-

tries worldwide, including the United States, Europe, Asia and South America. Among its stand-out products, the Servobottle and SB021 machines, designed specifically for direct printing on glass, meet the needs of customers looking for efficiency, flexibility and sustainability.



At Glasstec this October, OMSO showcased its Servobottle and SB021 machines, both of which captured the attention of event attendees thanks to their innovative capabilities in quick format changes, energy-efficient LED technology and integrated quality control. Such features reinforce the company's commitment to glass printing solutions of high-quality that are both sustainable and flexible - thus solidifying its role as a global leader in glass decoration.

GLASSTEC SUCCESS STORY

From October 22 to 25, 2024, OMSO showcased its latest advancements at Glasstec in Düsseldorf, one of the glass industry's most important trade events. Here the Servobottle and SB021 machines took the spotlight, generating substantial interest among visitors, both for their configurability and for their ease of format changes. Such are the features that solidify OMSO as preferred technology partner for companies that are after flexible, cutting-edge solutions. Indeed the success of these models at Glasstec reflects OMSO's commitment to providing innovative solutions that align with current market trends and the growing demands for sustainability and production efficiency.



QUICK FORMAT CHANGE AS COMPETITIVE ADVANTAGE

Given that agility has become a requirement for adapting swiftly to market shifts, quick format change is essential in modern production lines. The Servobottle

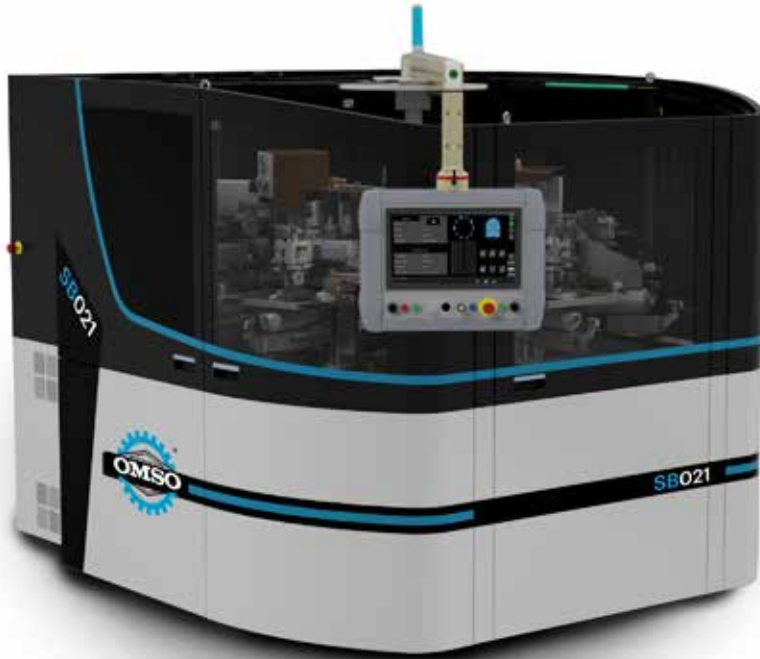
and SB021 models are engineered for fast, intuitive format changes that reduce downtime and boost productivity. This capability is especially critical in the cosmetics packaging industry, where frequent changes in container formats and models are standard. With a tool-less system and the ability to store preset configurations, these machines facilitate product changes in just minutes. Such efficiency directly translates into overall cost savings - a tangible benefit for companies aiming to optimize production processes.

ENERGY EFFICIENCY AND UV LED TECHNOLOGY

OMSO places a high priority upon the energy efficiency of its machines - implementing tech-



SCREEN PRINTING

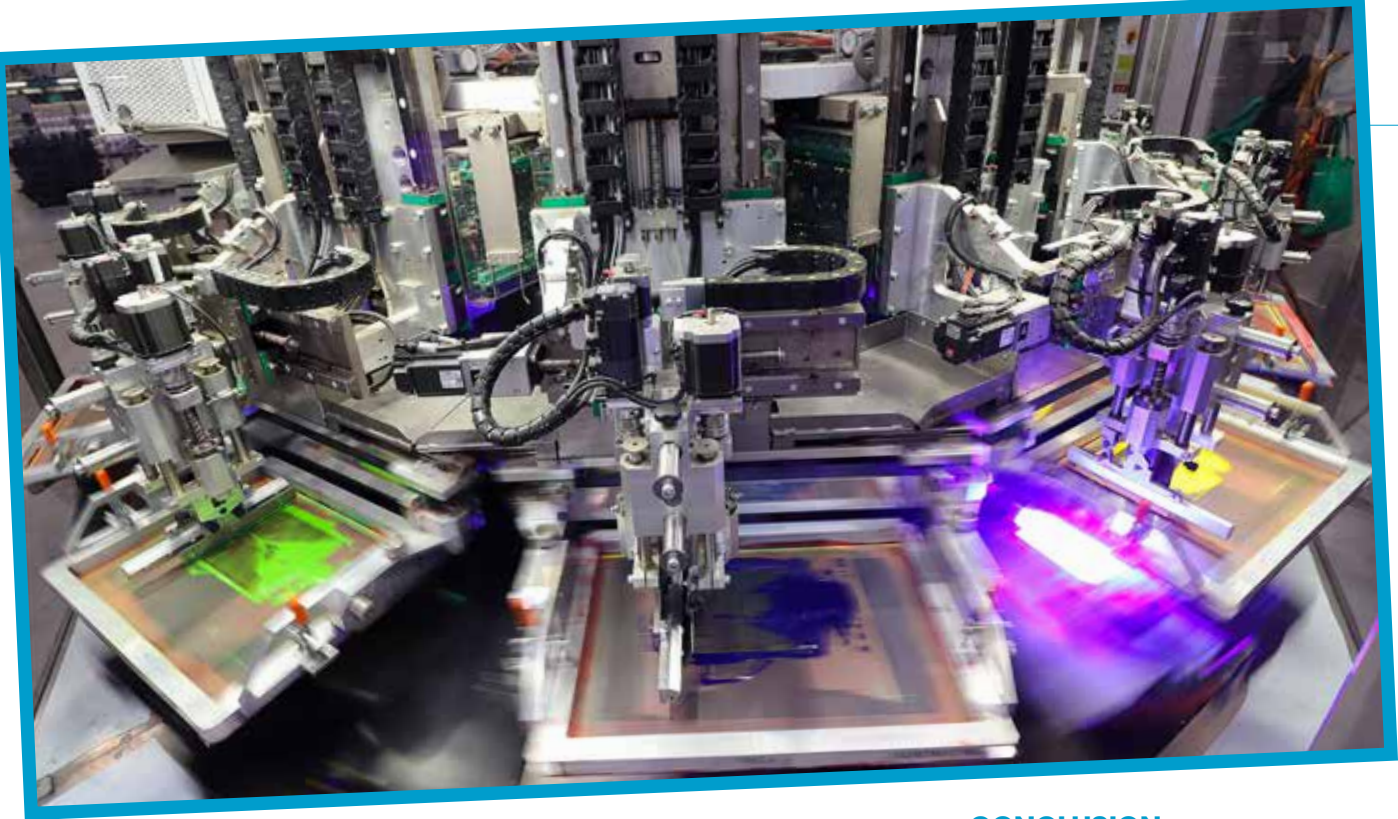


nologies that minimize consumption and emissions. Equipped with a high-efficiency torque motor, the Servobottle delivers both performance and reliability. Together with high-efficiency brushless stepper motors, it achieves consistently high production speeds over time whilst optimizing energy consump-

tion. The adoption of LED lamps over traditional mercury vapour lamps marks a major breakthrough in energy savings. As they maintain the same drying efficiency, LED lamps achieve significantly lower energy consumption. OMSO collaborated with the University

of Modena and Reggio Emilia (UNIMORE) to conduct a study through the Industrial Plant Design and Management Laboratory of the Department of Sciences and Methods for Engineering (DISMI). The study measured energy savings in various machine configurations and operating conditions. Here findings reveal substantial results: LED technology reduces energy consumption by up to 80 per cent compared to mercury vapor lamps, with a significant reduction of CO2 released into the environment. OMSO has incorporated this data into its machine management software, which includes a dedicated page for calculating the CO2 saved in each production run. This feature allows companies to track their environmental impact in real time. Additionally, in terms of sustainability, LED lamps have an average lifespan approximately 20 times longer than traditional lamps. They require no bulb replacements and LED end-of-life disposal has a far lower environmental impact than that of mercury vapor lamps.





PRECISION AND PRINT QUALITY ON GLASS

OMSO is renowned for its expertise in printing on three-dimensional objects and the Servobottle and SB021 exemplify how the company has translated this know-how into high-performance machines. Screen printing on glass demands an exceptional level of precision. These models meet this requirement by delivering accurate colour registration with tolerances of between 0.1 mm and 0.2 mm. Both models can be equipped with a camera-based quality control system - an optional feature that automatically detects print defects, colour variations and surface imperfections, thus ensuring consistent product quality. Integrating quality control directly within the machine minimizes waste, as potential issues are identified immediately, thus improving overall production efficiency. Indeed with over seventy years of experience, OMSO has solidified its position as a global leader in hollow glass printing. Here, by offering solutions of the highest quality, it is not only catering to the current needs of the industry but is also paving the way for a more sustainable future.

MEETING MARKET DEMANDS IN EFFICIENCY, FLEXIBILITY AND SUSTAINABILITY

As the market's demand for efficiency, flexibility and sustainability grows, OMSO's Servobottle and SB021 models stand out as ideal solutions for businesses looking to stay ahead. The simplicity of format changes, coupled with the significant energy savings from LED technology, sets these machines apart as cost-effective, sustainable options. The in-built quality control systems further enhance these models, allowing manufacturers to consistently produce high-quality glass products while minimizing their environmental impact. Through its investment in technology and commitment to environmental stewardship, OMSO continues to lead the way in glass screen printing. With a portfolio that meets the demands of diverse industries, the company reinforces its role as a reliable partner for companies seeking innovation in the decoration of three-dimensional glass objects. OMSO's enduring commitment to quality and environmental responsibility supports the glass industry's progression toward a more sustainable future - one print at a time.

CONCLUSION

OMSO's innovative Servobottle and SB021 machines offer a unique combination of quick-change functionality, energy-efficient UV LED technology and integrated quality control systems, making them invaluable assets for companies in the glass decoration sector. With these offerings, OMSO sets a benchmark in the industry - blending Italian craftsmanship with forward-thinking solutions to address contemporary production challenges and future-proofing the glass decoration process. Through sustained research, collaboration and an eye toward eco-conscious practices, the company continues to drive advancements in glass screen printing, underscoring its legacy as a pioneer in the global glass industry. ■



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