Compact printing platforms, courtesy of OMSO

Driven by continuous engineering development, OMSO has refined glass decoration technologies that balance precision, efficiency and sustainability. The latest SB021.25 platform reflects this approach, combining servo-driven mechanics, integrated quality control and UV LED curing to meet evolving production, energy and regulatory demands in glass packaging.

For more than seventy years, OMSO has developed technologies for direct printing on objects, combining precision mechanics, electronics, and accumulated application know-how. Glass packaging decoration remains one of the sectors in which the company has invested most heavily, supporting manufacturers with solutions designed to ensure consistent quality, robust process control and long-term operational reliability. Last year, OMSO was awarded the EcoVadis Bronze Medal, which evaluates corporate performance across environmental, social, and ethical criteria. This recognition confirms the company's direction, focused on

waste reduction, consumption optimisation and improved efficiency across its decoration lines.

PLATFORM EVOLUTION AND MACHINE ARCHITECTURE

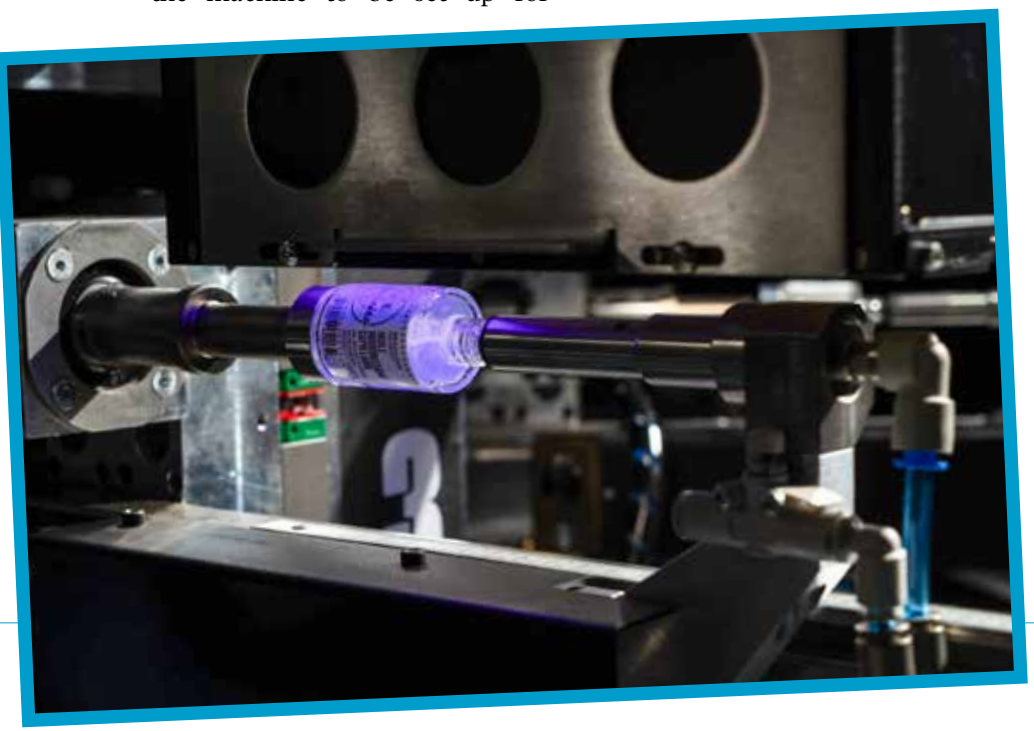
This context led to the development of SB021.25, the latest evolution of the OMSO platform dedicated to screen printing on glass. The machine is equipped with fully servo-assisted movements, increasing positioning accuracy, improving repeatability, and supporting continuous production even on complex container geometries. A defining feature of the new version is single-station loading and unloading. This configuration frees an operating station and allows the machine to be set up for up to three printing colours, or two printing colours plus a hot-stamping station, with integrated quality control available for both layouts. These options were not available on the previous version, delivering greater flexibility, faster changeovers and improved adaptability to variable sizes and shapes.

QUALITY CONTROL AND ENERGY EFFICIENCY

Integrated quality control enables immediate intervention in the event of non-conformities, reducing waste and supporting zero-defect production. The result is a measurable improvement in line efficiency alongside enhanced process sustainability. The adoption of UV LED lamps follows the same efficiency-driven logic. Compared with mercury vapour lamps, UV LED technology delivers significantly lower energy consumption, longer operating life and reduced maintenance requirements. A dedicated simulator, available on the SB021.25 page of the OMSO website, allows precise estimation of energy consumption across different configurations. This technological choice also anticipated the definitive ban on certain mercury vapour lamps that came into force on December 31 - in line with the Minamata Convention.

COMPACT DESIGN AND MARKET OUTLOOK

SB021.25 integrates a complete printing platform within a compact footprint, combining three-colour capability, quality control, servo-assisted movements and UV LED technology engineered to optimise energy use and operating costs. It is a solution designed for manufacturers seeking measurable performance gains and tighter control over the decoration process. OMSO will open 2026 by presenting SB021.25 at PCD Paris, scheduled for February 4-5, where the company will showcase its latest developments for the cosmetic packaging sector.



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