

TRENDSETTERS

The OMSO Servobottle for versatile glass container printing

Setting a new standard in glass container decoration that combines precision, flexibility and sustainability, OMSO's Servobottle is designed for complex shapes and high-colour printing. Its servo-driven screen printer offers fast changeovers and energy-efficient UV curing together with seamless integration with digital production systems.

A CUTTING EDGE PROPOSAL FOR GLASS CONTAINER SCREEN PRINTING

Within the glass decoration industry, production efficiency can no longer be separated from high operational flexibility, perfect printing performance and increasing attention to energy sustainability - a trio of needs

for which OMSO with its seventy-plus years of experience in the decoration industry, offers its mod. Servobottle screen printing machine as multi-purpose solution. The model features fully, servo-driven movements and is designed to effectively meet the most complex challenges of printing on cylindrical, elliptical or shaped glass objects.

MORE THAN SEVEN DECADES OF INNOVATION IN DIRECT PRINTING

Founded in 1952, OMSO has a long tradition of designing and manufacturing machines for decorating primary packaging in glass, plastic and metal. With established know-how and an engineering approach that's geared toward technological evolution, the company has been able to consistently anticipate market needs - offering high-performance decoration solutions for the cosmetic, food, pharmaceutical and beverage industries. Indeed OMSO machines have always excelled in precision, versatility and reliability - representing a benchmark in industrial container decoration for many companies. Here again, the Servobottle machine model fits right into this tradition with its eye toward the future in terms of automation, print quality and energy sustainability.

FAST CHANGEOVER, FLEXIBLE PRODUCTION

One of the most appreciated features of this machine is the fast setup for printing different three-dimensional objects. Thanks to a simple handling system and



automatic adjustments managed by servo axes, changeover takes place in an extremely short time and without the need for time-consuming mechanical intervention. The operator can adapt the machine to new production batches through an intuitive interface that automatically manages the alignment movements of transport and printing parts.

HIGH-PRECISION COLOUR REGISTER

The Servobottle excels in colour register management, providing tolerances of 0.1mm - a precision rendered possible by the integration of camera search systems and the complete control of object and screen printing

frame movements by brushless motors. Indeed even in multi-colour decoration on complex surfaces, the system guarantees aesthetic quality that meets the highest standards required. Here the premium perfume and liquor container industries serve as perfect examples - also thanks to the ability to perform cross printing, which allows even the most unusual and creative shapes to be decorated without difficulty.

MAXIMUM VISUAL IMPACT WITH UP TO TEN COLOURS

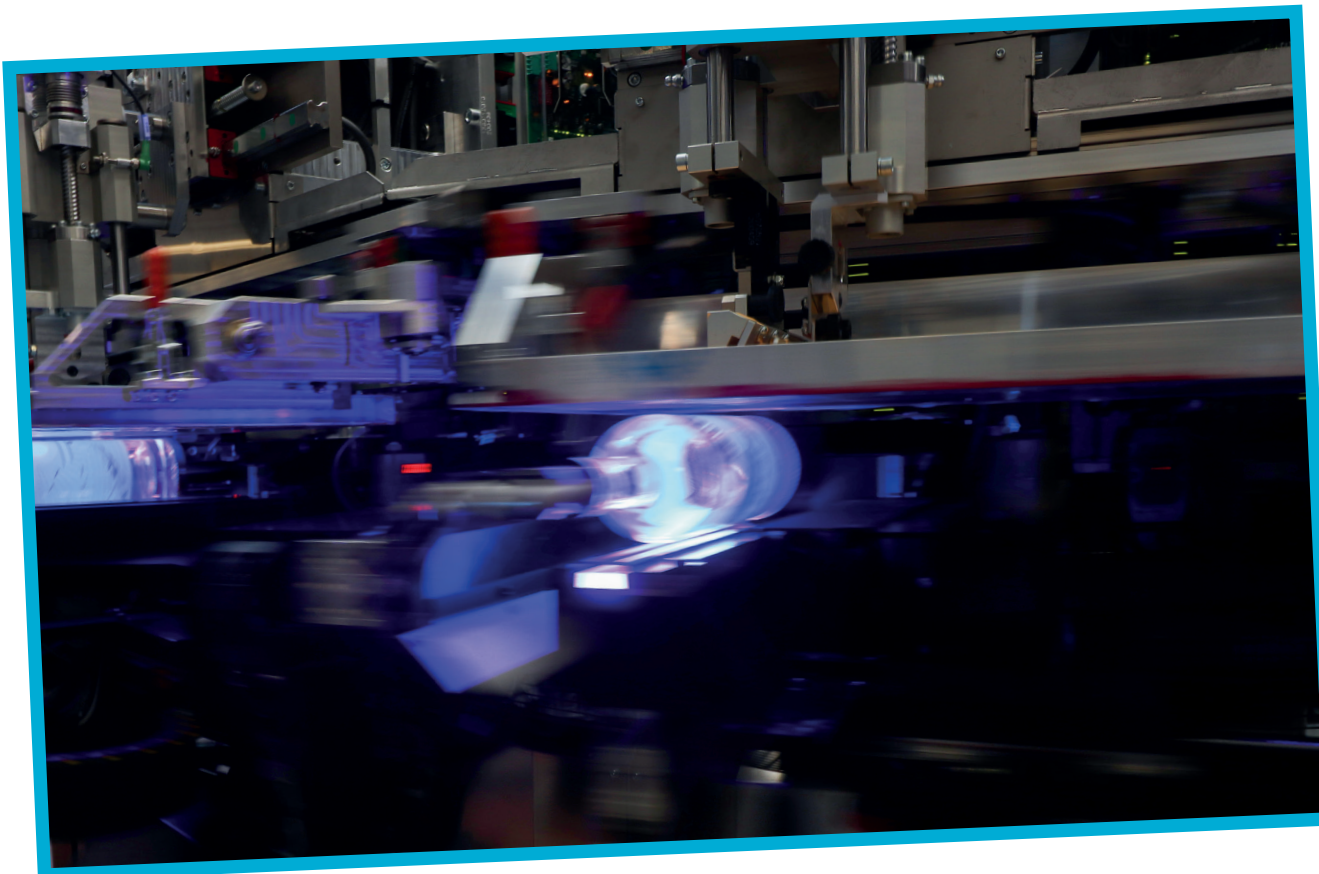
For applications requiring maximum graphic output, the machine can be configured with up to ten stations in the case of

using thermoplastic inks and up to nine in the case of UVLED inks. Here the ability to print up to ten colours inline allows the creation of complex, high-density graphics - expanding opportunities for both packaging customization and aesthetic enhancement.

ENERGY-EFFICIENT UV TECHNOLOGY

In its full, UV LED version the machine ensures rapid and uniform colour curing with a significant reduction in energy consumption as compared to traditional mercury lamp technologies. The benefits are concrete: up to 80 percent less energy use, as well as no ozone during the process: a gas known to be harmful to both the environment and the machine itself. Energy efficiency is further supported by intelligent management of the lamps, which only get activated when the object in transit is present, thereby eliminating waste. Moreover, consumption and emissions can be tracked in real time through the machine's supervision software, which offers users a concrete tool for integrating production data into their ESG (Environment Social and Governance reports).





ANTICIPATING TOMORROW'S DESIGN WITH TODAY'S EXCELLENCE

The Servobottle is not just a high-performance machine. It's also an evolutionary platform that's designed to integrate with Manufacturing Execution System (MES), Enterprise Resource Planning (ERP) and machine vision solutions for in-line quality control. To that end, it can be equipped with a latest-generation linear camera inspection system, which is capable of performing accurate checks on every decorated object - directly at the output of the last printing station. Real-time detection of any defects-even the smallest ones-allows non-conforming parts to be eliminated before they continue in the production or logistics cycle - thus ensuring 'zero-defect' production.

The benefits derived from this system are many. Environmentally, the reduction

of waste helps limit the overall consumption of energy, inks and auxiliary materials. Financially-speaking, the ability to prevent serial errors and waste reduces direct and indirect costs associated with batch remakes, rework and returns management. This is a key element for all manufacturers oriented toward lean and sustainable processes, particularly in demanding markets such as cosmetics, food and high-end beverages. The ability to access remote diagnostics, software updates and online support by VPN connection also makes the machine a safe investment in terms of predictive maintenance and operational continuity. Decorating on glass represents a highly specialized segment where every component of the process must ensure reliability, replicability and compatibility with increasingly stringent environmental sustainability standards. In this scenario, the Servobottle version for glass objects stands

out as a benchmark solution that's capable of combining aesthetics, efficiency and energy responsibility. With a customizable offering, high performance and intelligent energy management, OMSO confirms its role as a technology partner for the glass finishing industry - offering solutions that anticipate market needs while enhancing brand identity by directly printing on primary packaging. ■



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