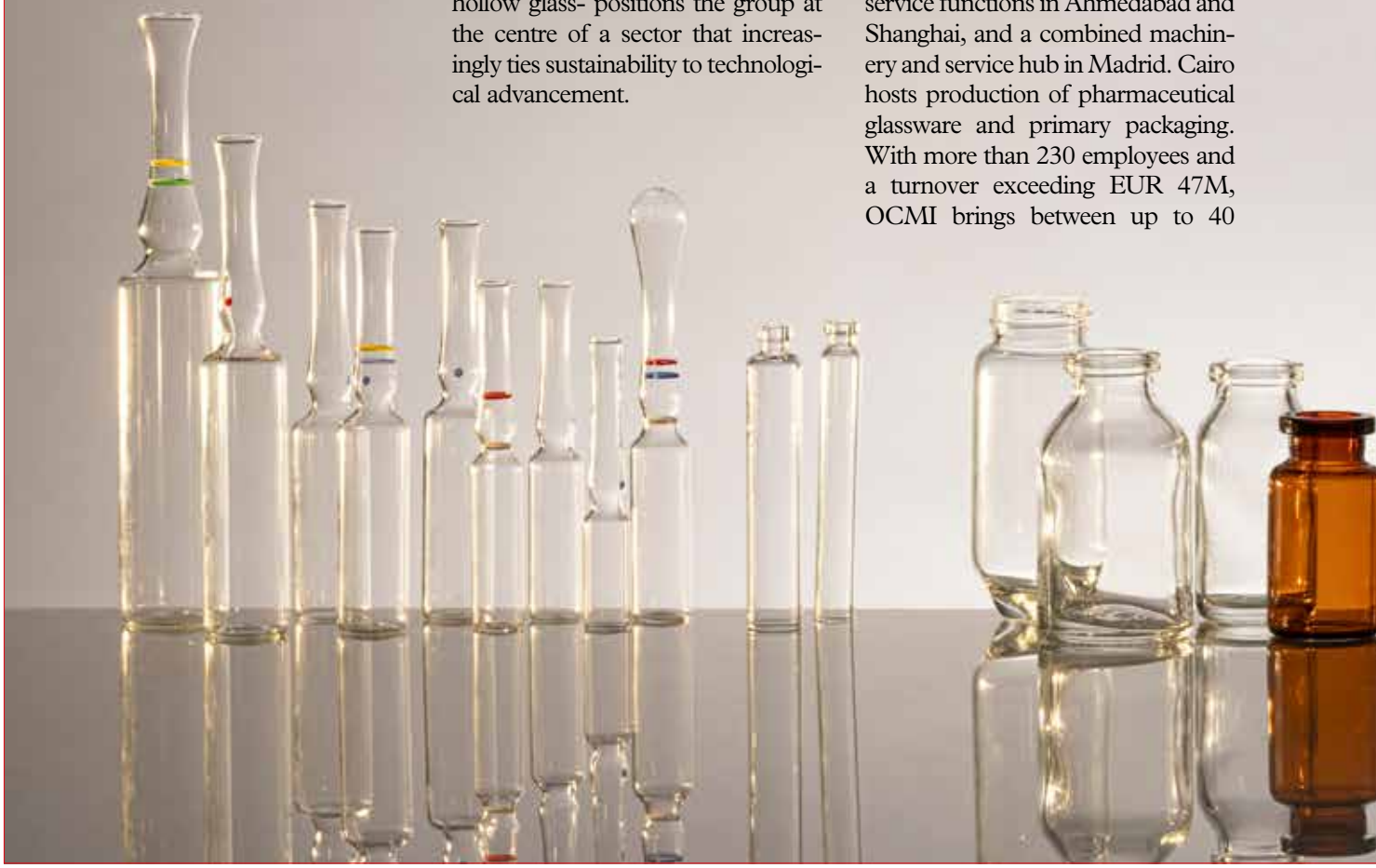
Glass primary packaging at OCMI is always more sustainable

HERITAGE

For more than a century, OCMI has been connected to glassmaking expertise and continuous progress in equipment dedicated to tubular glassware. Today, this accumulated know-how is directed toward a focused technological mission: enabling decarbonisation within the glass industry and, in particular, in the field of pharmaceutical primary packaging where product integrity, stability and resource efficiency must coexist seamlessly every day. OCMI's specialisation in tubular glassware machinery -as well as in equipment for glass stemware and hollow glass- positions the group at the centre of a sector that increasingly ties sustainability to technological advancement.



FOOTPRINT

This strategic orientation is reinforced by a global structure designed for widespread technical impact. Engineering and main machinery production are headquartered in Milan, with additional machinery manufacturing in Paris, extended production and sales and service functions in Ahmedabad and Shanghai, and a combined machinery and service hub in Madrid. Cairo hosts production of pharmaceutical glassware and primary packaging. With more than 230 employees and a turnover exceeding EUR 47M, OCMI brings between up to 40

As it reshapes pharmaceutical glass packaging with energy-saving technologies, hydrogen-ready lines and advanced automatic management of combustion fluids, OCMI continues to show how sustainability goals can be transformed into concrete production solutions that reduce utilities consumption while maintaining performance, reliability and long-term cost-effectiveness across tubular glass processing.

new lines into operation each year, supporting an installed base of over 3,100 machines worldwide. New developments can be deployed rapidly both through new line installations and through enhancements across existing lines in APAC, EMEA, NAFTA and LATAM.

PHILOSOPHY

OCMI frames its work around a group philosophy built on robustness, service and minimised consumption. Its more than 100 years of experience, sustained through ongoing research and development and systematically applied improvement, are described as a core value. Machines are engineered with uncompromising emphasis on durability and proven mechanical solutions, ensuring long-term reliability and stable performance. These design principles are supported by a global service network that maintains productivity and efficiency throughout each machine's lifecycle. Crucially, OCMI places explicit emphasis on optimised and minimised use of utilities and fluids, embedding resource reduction into the core of design rather than treating it as an add-on. This combination of durability, continuous support and consumption-conscious engineering forms the foundation for its approach to sustainable tubular glass production.

INNOVATION

The group's R&D strategy turns this philosophy into operational innovation. Its development roadmap centres on reducing gas, oxygen, electricity and both high- and low-pressure air consumption, marking these areas as essential targets for engineering advancement. New equipment generations are conceived specifically to lower utilities demand compared with prior versions. Automation plays a decisive role by introducing systems capable of automati-

cally managing consumptions during active production, transitional phases or temporary micro-stops. These innovations are designed to strengthen productivity while reducing the environmental and economic burden associated with each pharmaceutical glass container manufactured. A clear demonstration of this approach is the Mass Flow Control Technology created for vials and cartridges. Designed for attentive, efficient and sustainable management of combustion fluids, it uses only gas and oxygen - eliminating air to ensure precise control. During micro-stops or whenever glass is not loaded, the system reduces consumption automatically rather than maintaining constant output. Under normal production conditions, combustion fluids remain at the minimum levels required for stability. Because the system maintains full automatic control at all times, manual intervention is reduced and process repeatability is strengthened. This contributes directly to productivity gains, especially during fast automated changeovers, where waste of utilities is minimised and transitions become more efficient.

TRANSITION

OCMI's commitment to future-proof technology is also apparent in its readiness for hydrogen as an alternative to traditional combustion gas. Vial and ampoule lines are presented as 'H_2 plug & play,' a capability tested and ready since 2022. This readiness ensures that manufacturers can adopt hydrogen-based combustion when desired without reconfiguring machines, offering a practical pathway toward lower-carbon energy vectors that can be integrated into production strategies as fuel markets evolve. Complementing this are OCMI's state-of-the-art technologies that jointly deliver performance and sustainability. The use of 100 percent servo motion and torque motors supports precision while contributing to efficient energy use. Quartz tubular heaters provide stable, controllable heat input, and the shift to electric actuators reduces reliance on compressed air - aligning directly with the goal of lowering air consumption. Automatic closed-circuit systems for water cooling and lubrication ensure that these necessary resources are managed carefully and efficiently, reducing losses and improving performance stability. Together, these technologies show how OCMI integrates high technical performance and sustainable operation within the same equipment architecture. Taken as a whole, OCMI's philosophy, development priorities and technological capabilities form a cohesive pathway toward decarbonisation in pharmaceutical primary packaging. The company leverages its century-old heritage, global industrial presence and extensive installed base to advance energy-saving solutions that are technically robust, scalable and compatible with both existing and future infrastructures. Through minimised utilities consumption, fully automatic combustion management and readiness for hydrogen, OCMI positions its machinery as a direct contributor to a more sustainable glass industry. This integrated strategy transforms innovation into actionable reduction of environmental impact for every vial, ampoule and cartridge produced - supporting the future of pharmaceutical glass manufacturing through engineering that is both responsible and performance-driven. ■

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