

Trailblazing glass manufacturing precision thanks to IOCCO tooling

Designing and manufacturing solutions for tempered and laminated glass, pre-lamination and post-glass phases as it integrates robotics, artificial vision and digital

twin technology, Iocco operates in the architectural and appliance glass segment - supplying complete lines that integrate handling, screen-printing, washing, printing and ac-

cumulation systems. In the float glass sector, the company stands out for ancillary equipment and complete systems for automatic handling and end-of-line storage.

AUTOMOTIVE EXPANSION

The global automotive glass sector is experiencing significant expansion: according to recent analysis, the market is projected to reach approxi-



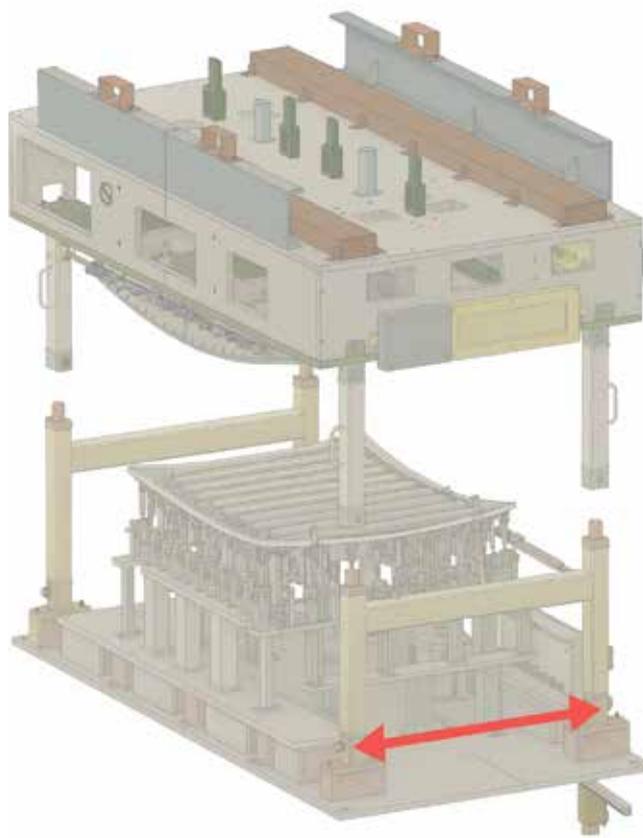
In developing comprehensive solutions for automation, tooling and supervision across the automotive, architectural, flat and float glass sectors, IOCCO adopts a modular, digital and efficiency-oriented approach. The company supports every stage of the glass transformation process - from handling to pre-processing, from lamination to post-glass management.

mately USD 22.35 billion by 2025, with a compound annual growth rate (CAGR) of 5.5 percent through 2030. Among the most dynamic segments is the panoramic roof (sunroof) market, which is expected to grow at a CAGR above 10 percent over the next few years. To meet this growing and strategic demand, Iocco has created a dedicated tooling division equipped with specialised resources, a vertical technical team and advanced design capabilities. This new organisation enables the company to offer highly responsive and customised service to automotive, home-appliance and architectural manufacturers, improving project traceability and production efficiency.

PRECISION TOOLING

Iocco has been designing and manufacturing tooling for glass bending, forming and quality control for many years, working alongside major OEMs and end-users worldwide. Its range includes press-bending moulds, precision checking fixtures and cooling blowers for tempering furnaces - all essential components in the thermal and di-

mensional processes applied to windshields, backlites and sidelites. The new division is focused on the design and production of moulds for bending and pressing furnaces, engineered to ensure mechanical stability, dimensional accuracy and complete customisation according to client specifications. Iocco moulds stand out for their durability, structural



integrity and flexibility in handling complex or asymmetric geometries.

Complementing the product range are highly accurate checking fixtures, both manual and digital, for dimensional and curvature inspections. These tools allow rapid, reliable measurements and can be integrated with automated systems to ensure consistent quality and data traceability.

The division also produces high-performance cooling blowers for tempering furnaces, designed to optimise airflow distribution and guarantee uniform cooling. Iocco blowers are engineered with attention to mechanical strength and compatibility with high-temperature, high-pressure environments.

ABOUT IOCCO

IoCCo designs complete automation, tooling and supervision solutions across the automotive, architectural, flat and float glass sectors. Thanks to a modular and digital approach, the company supports every phase of the glass transformation cycle - from handling to pre-processing, lamination and post-glass operations. In the automotive field, the company provides advanced systems for tempered and laminated glass, integrating robotics, vision systems and digital twin technology. For architectural and appliance glass, IoCCo supplies fully-integrated lines with handling, screen-printing, washing, printing and accumulation stations. In float glass, it specialises in ancillary systems and automated end-of-line solutions. Founded in Abruzzo, Italy, IoCCo enjoys a winning track record of over 40 years of experience and operates in more than 30 countries with installations for leading global glass manufacturers. The company's strength lies in its ability to combine mechatronics, industrial software and internal R&D with high-quality after-sales services. Through partnerships with universities, research centres and industrial networks, it continues to shape the future of glass automation and innovation.



INTEGRATED SOLUTIONS

The company has recently launched four fully automated lines for laminated glass assembly, dedicated to windshields and panoramic sunroofs. These systems handle both single-layer and multi-layer configurations, processing advanced interlayers such as PDLIC, PVB, SPD, XIR and EVA. The entire process is robotised - from interlayer picking from trays or preparation tables, to contour cutting according to the glass geometry and precise stacking of glass and interlayers with positioning tolerances within 0.1 mm. Thanks to this level of precision, interlayer waste has been significantly minimised - directly reducing production costs and improving



overall process efficiency. The assembly line is seamlessly integrated with IoCCo's de-airing furnaces and subsequent automatic islands for the application of rain sensors and mirror bosses, culminating in the final deposition of the laminated glass

on racks for autoclave processing. With this solution, the company now completes the entire process -from bending-furnace unloading to final inspection and packaging- ensuring precision, repeatability and production continuity.



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