

# American automotive glass makers choose IOCCO technology

As IOCCO partners with customers to tailor new glass processing solutions for an evolving automotive industry, it recently made inroads into the American market with its advanced lamination tech for ultra-thin multilayer glass automating as well as innovations in assembly and de-airing systems managed by advanced softwares with AI to optimize efficiency and quality production.

The American market is proving to be an open destination for the latest developments in IOCCO's automotive glass lamination technology. Indeed several installations across Mexico and North and South America in recent years confirm the increasing trend towards the level of automation and control that's required to produce the latest generation of automotive glass in accordance with the high-quality standards demanded by car manufacturers and the market. The automotive sector has embraced ultra-thin multilay-



er glass, including PDL (Polymer Dispersed Liquid Crystal), PVB, SPD and XIR technology.

The phases of the production process that have attracted the most interest in terms of technological production innovation are those of assembly and pre-lamination (called the de-airing process), in order to process windscreens, laminated roofs and sidelights that are increasingly lighter, safer, more complex in shape and with innovative technologies equipped with ADAS systems.

## PARTNERSHIPS FOR INNOVATION

IOCCO has developed complex robotic systems, combined with artificial vision systems that are capable of assembling these types of interlayers and has marketed highly productive assembly and pre-lamination systems, unique in the world, which allow precise assembly phases and the subsequent phase of air extraction inside the laminate, as well as the fusion and encapsulation of these technological interlayers.

The vacuum bag furnace (for de-airing) is a unique system that can carry out flexible productions, allowing model changes without interrupting the process, monitoring all process phases, vacuum values and temperatures on each glass produced and reacting autonomously

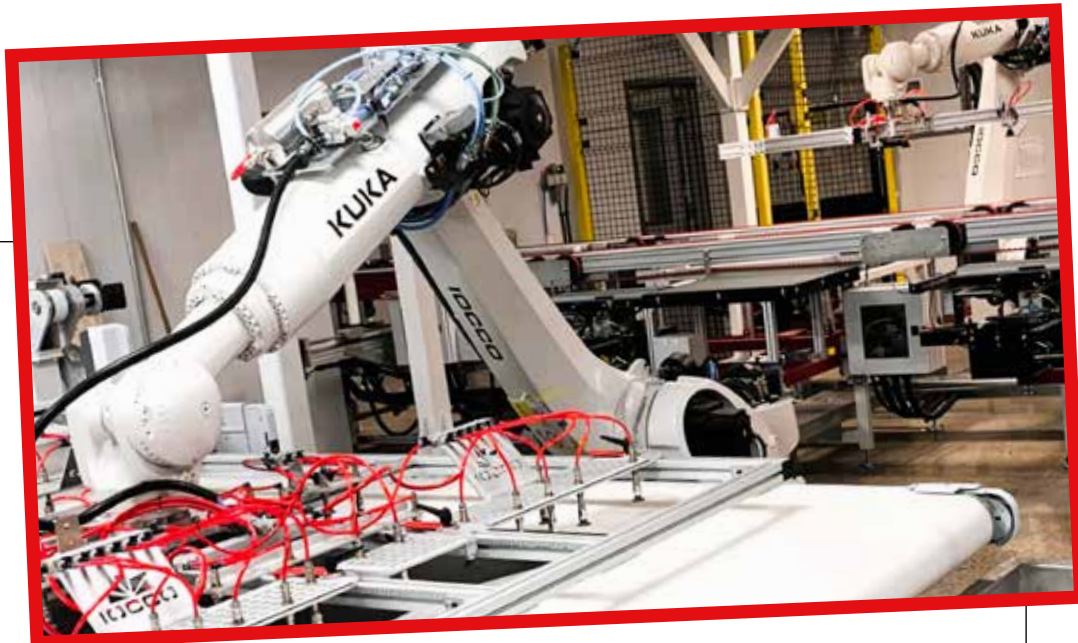
to possible anomalies to guarantee continuous and quality production. To date, this process system can produce a side window every 9 seconds and windscreens/sunroofs every 18 seconds.

Thanks to advanced sensors and intelligent software, the system is able to calculate the correct production parameters, track the technological process for each individual product, and modify the set-up

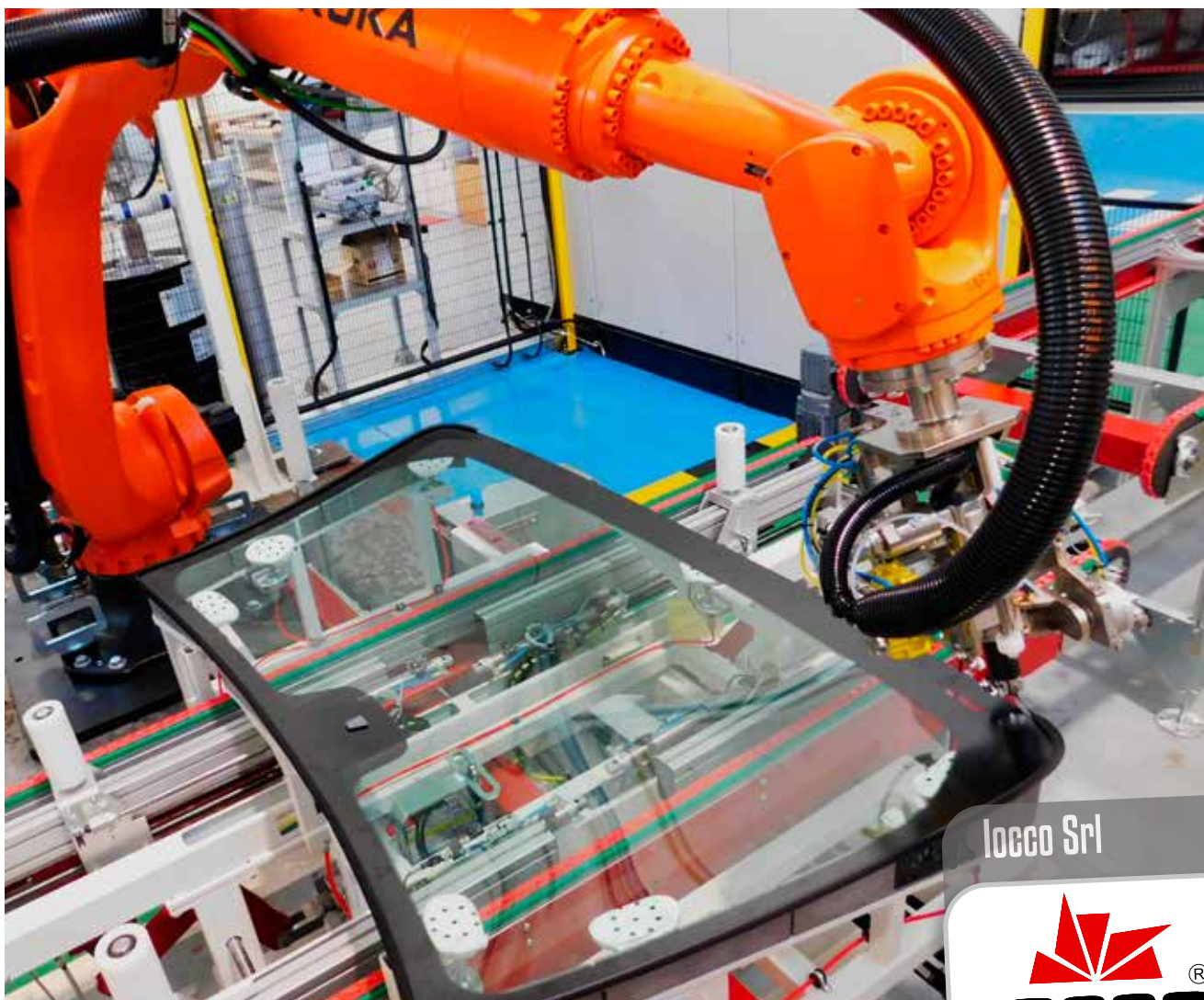
in the event of unforeseen anomalies.

The software has been designed and developed to take an important step forward in terms of user-friendliness, machine maintenance and set-up, and to be able to evaluate and adjust electrical absorption when it exceeds production requirements. The design is structurally-optimised to reach a new level of emission reduction thanks to the air re-

cycling and insulation systems adopted. Moreover, the installed A.I. helps to manage production quality or anomalies and it also has the scope to achieve the best energy efficiency. Automotive glass is ever-changing, and engineering solutions are crucial for discovering new methods to process it. Customers involve IOCCO's engineering team in the feasibility study to find suitable solutions for the entire car glass set.







Iocco Srl

  
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## VALUE-ADDED OPERATIONS

Iocco also supplies plants and complete lines for:

- Bright finishers assembly
- Centering pins and spacers assembly
- Long life primer application
- Polyurethane extrusion on the periphery
- Seals, bond on lace and finishers assembly
- Alarm, fax, antenna, heating circuit connectors assembly
- Grommet assembly
- Assembly and glueing of various accessories (bars, centering pins, spacers,...)
- Polyurethane extrusion on the glass periphery
- Brackets/pins application supporting various devices
- Seals, bond on lace and finishers assembly
- Long life primer application
- Mirror boss assembly
- Centering pins and spacers assembly
- Holders application
- Spacers application
- Encapsulation(PU, TPE, PVC)



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