

Installations by **GPM** **AUTOMATION** at glass manufacturing leader **FACILVITRUM**

GPM AUTOMATION has elevated **FACILVITRUM**'s laminated glass production in Badalona, Spain, by installing energy-efficient ovens and a precision press, which feature hybrid heating and servo-driven controls. This advanced technology reflects both companies' dedication to high-quality glass manufacturing.

Badalona-based premier glass manufacturer **Facilvitrum** recently enhanced its laminated glass production line thanks to advanced ovens and a precision press from **GPM Automation**. Known for its commitment to high-quality laminated glass, the company undertook this upgrade last August with a view to increasing production speed and reducing energy consumption - all while maintaining exceptional quality.



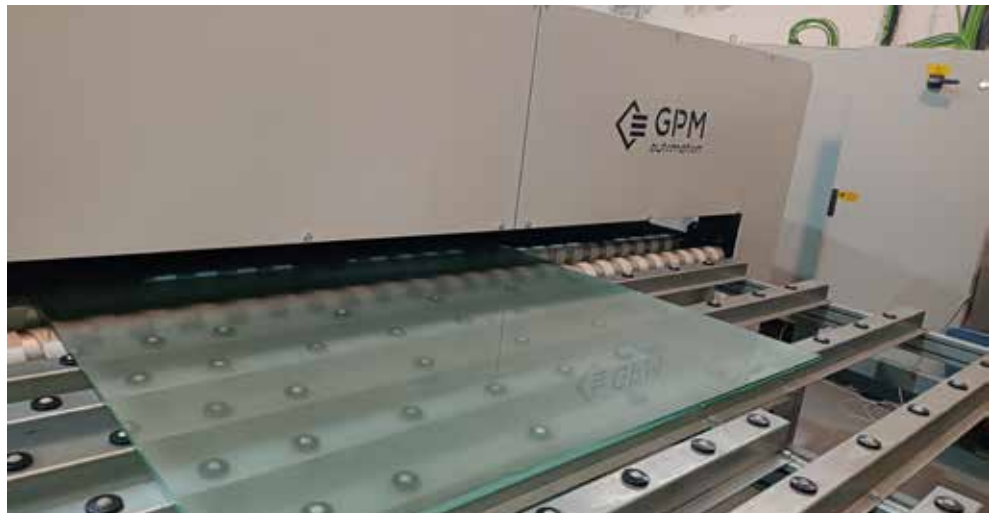


ADVANCED HEATING TECHNOLOGY FOR OPTIMISED LAMINATION

As for the new GPM Automation equipment, it uses hybrid heating technology to meet the specialised demands of modern glass manufacturing. Indeed each oven module features top and bottom fans with a forced air convection system - providing uniform heating across various glass types, including soft-coated, reflective, painted and heavy-thickness glass panes. Infra-red heating elements enable rapid adjustment during the lamination process, optimising results for clear and extra-clear glass of varying thicknesses.

ENERGY EFFICIENCY AND ENHANCED PRESS PRECISION

Here a key benefit of GPM's advanced system is its energy efficiency. Thick insulation and the forced air convection system contribute to substantial energy savings, while also ensuring



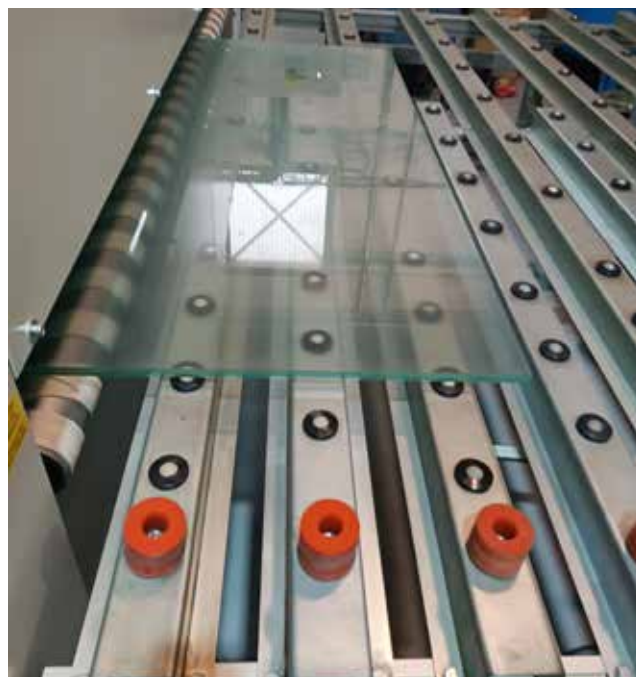
ABOUT GPM AUTOMATION

With a team backed by decades of experience, GPM Automation specialises in providing highly-customised, innovative solutions tailored to the specific needs of customers in the glass machinery industry. The company's product portfolio includes high-payload hydraulic loading and unloading tilting tables, with options for fully-automated systems using robotic or gantry loaders and unloaders. For glass assembly, GPM provides advanced solutions, including automatic glass squaring and PVB application, cutting and trimming. It also offers specialised PVB unwinders with overhead structures supporting up to 24 rolls, ideal for high-capacity operations. GPM's advanced ovens incorporate hybrid heating systems with infrared lamps and forced air convection, ensuring optimal heating efficiency through specifically designed airflow channels. Additionally, the company's shuttle systems streamline autoclave rack handling with automated loading and unloading options, significantly enhancing production workflow. GPM Automation stands out in the glass machinery industry through its commitment to quality, innovation and complete customization.



that all types of glass and interlayers are processed using the most efficient parameters. The newly installed press also represents a significant technological advancement. Powered by servo motors on an electric axis and guided by specialised software, the press continuously monitors the flatness of the top roll via servo-drives. This ensures precise and uniform pressure distribution across all glass sizes, thereby eliminating the need to centre glass pieces on the press bed. The system's

precision also allows for seamless processing of shaped glass, thus protecting delicate corners during pressing. Facilvitrum has already reported notable improvements in quality - particularly with stiff interlayers, as well as increased production speed and simplified parameter setup. The easy, accurate recipe management provided by GPM's system is an asset to consistent, high-quality production - underscoring GPM Automation's commitment to innovation and customer-focused design in the flat glass industry.



ABOUT FACILVITRUM

A company specialised in the transformation, manufacturing and distribution of high-performance flat glass, Facilvitrum's seasoned professionals bring extensive experience in the glass sector - leveraging both expertise and innovation to deliver exceptional products. The company's business philosophy centres upon its commitment to offering glass solutions that stand out for their innovation, differentiation, quality and service. By its strong focus on personalised client support and a dedication to quality, Facilvitrum aims to be the top choice for all who see glass that truly makes a difference.



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27-29

November , 2024

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