Glass-Technology International

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September/October Year 37 • No. 5/2026

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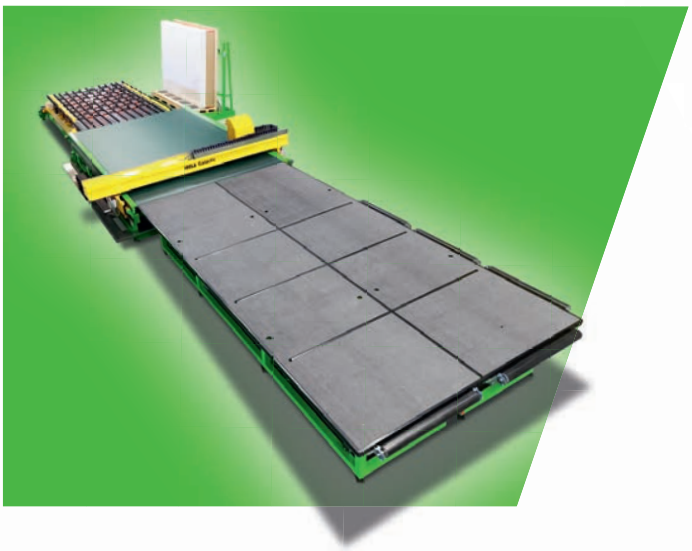
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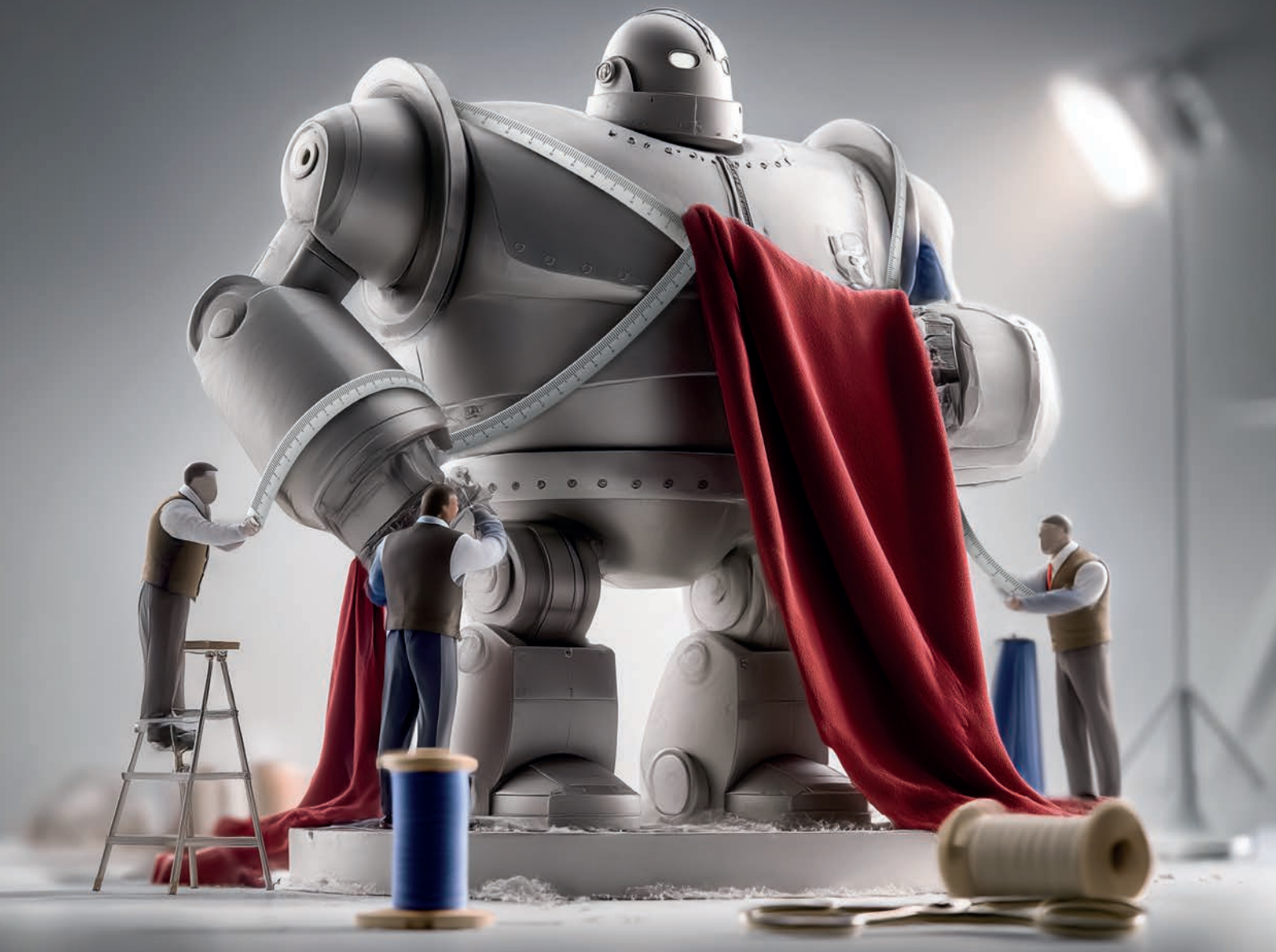
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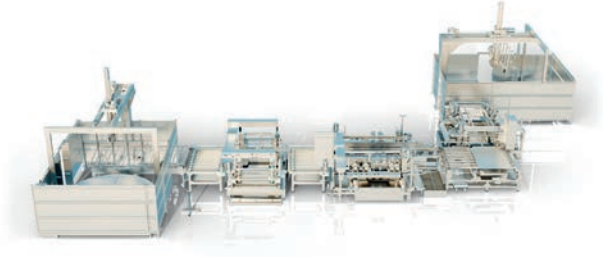
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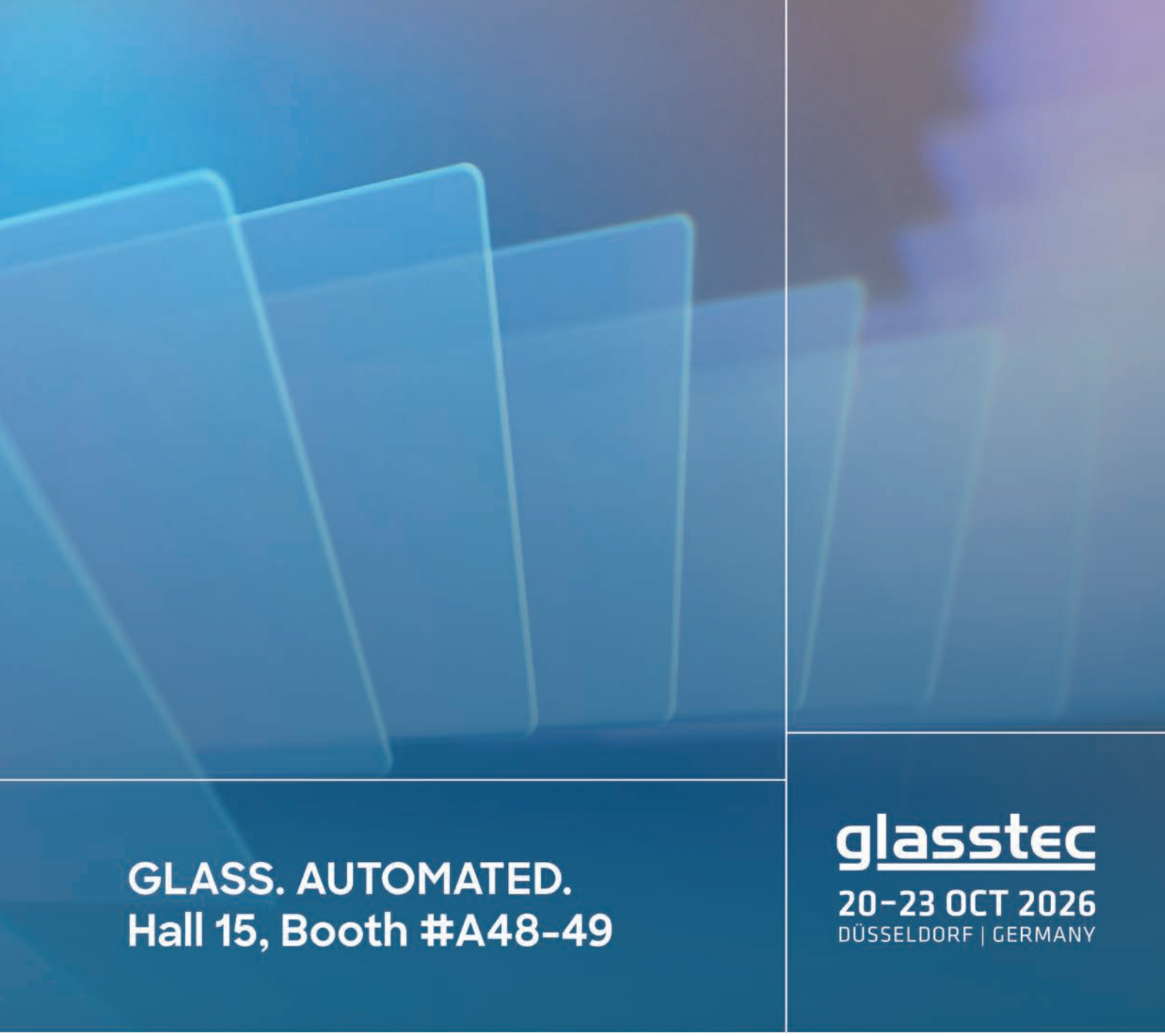


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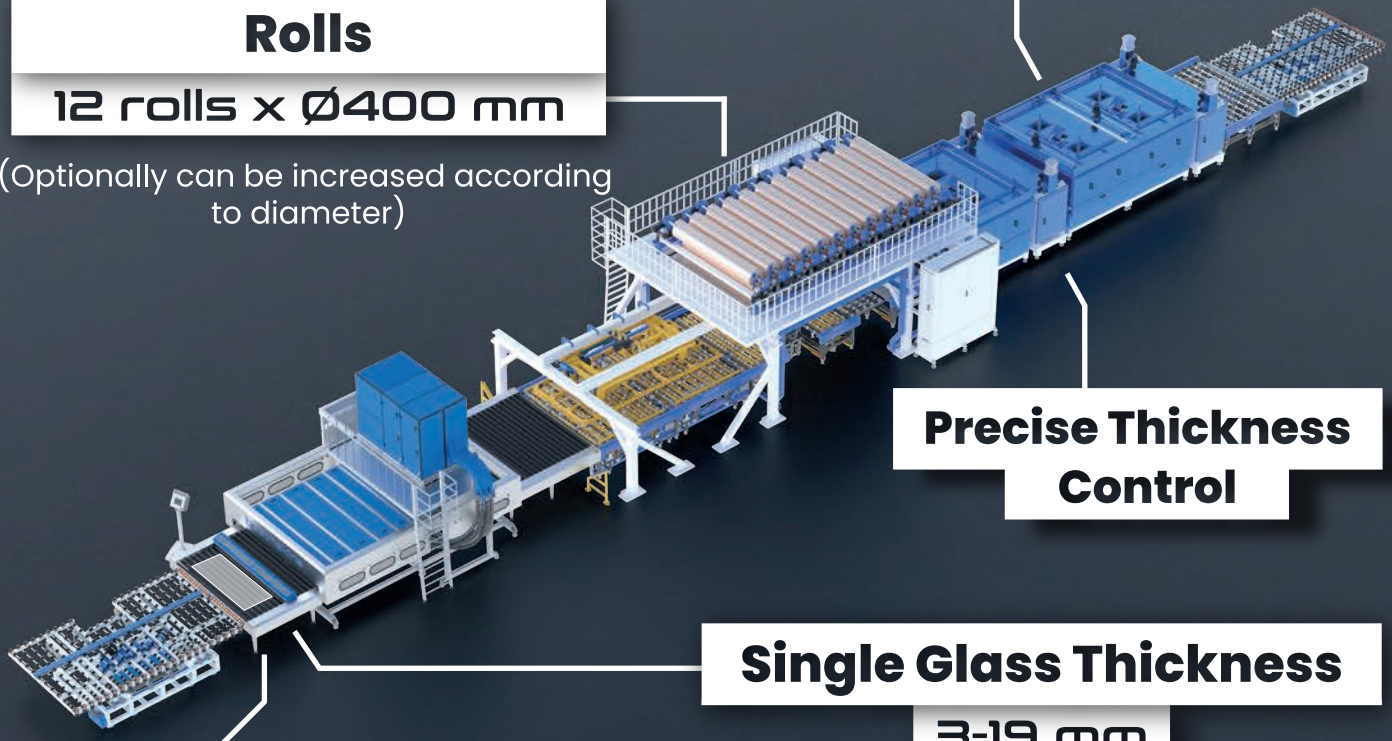
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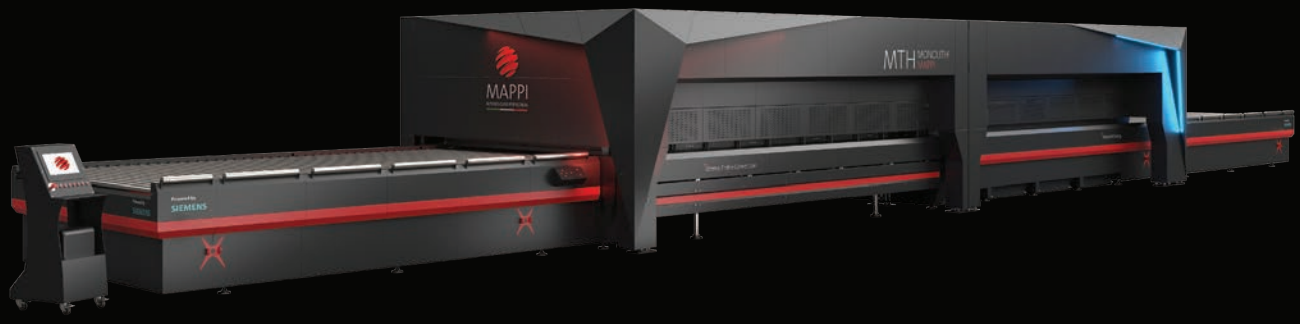
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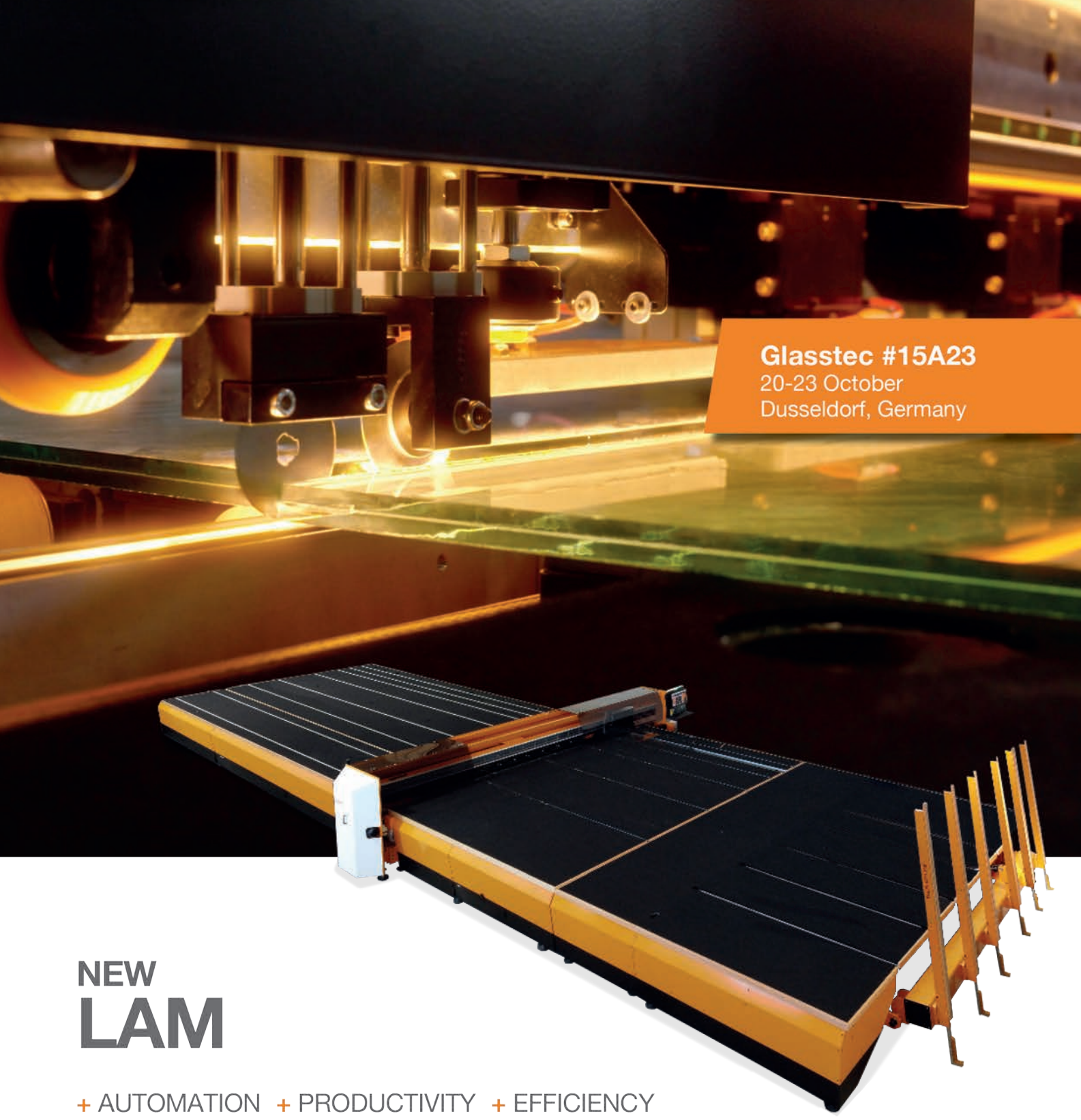
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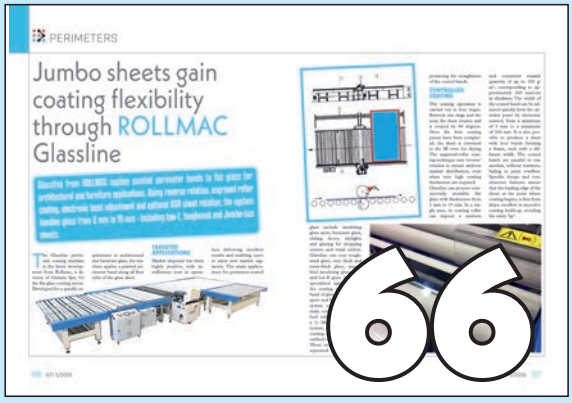
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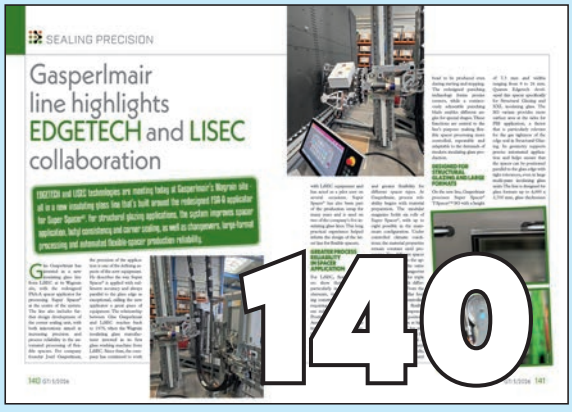
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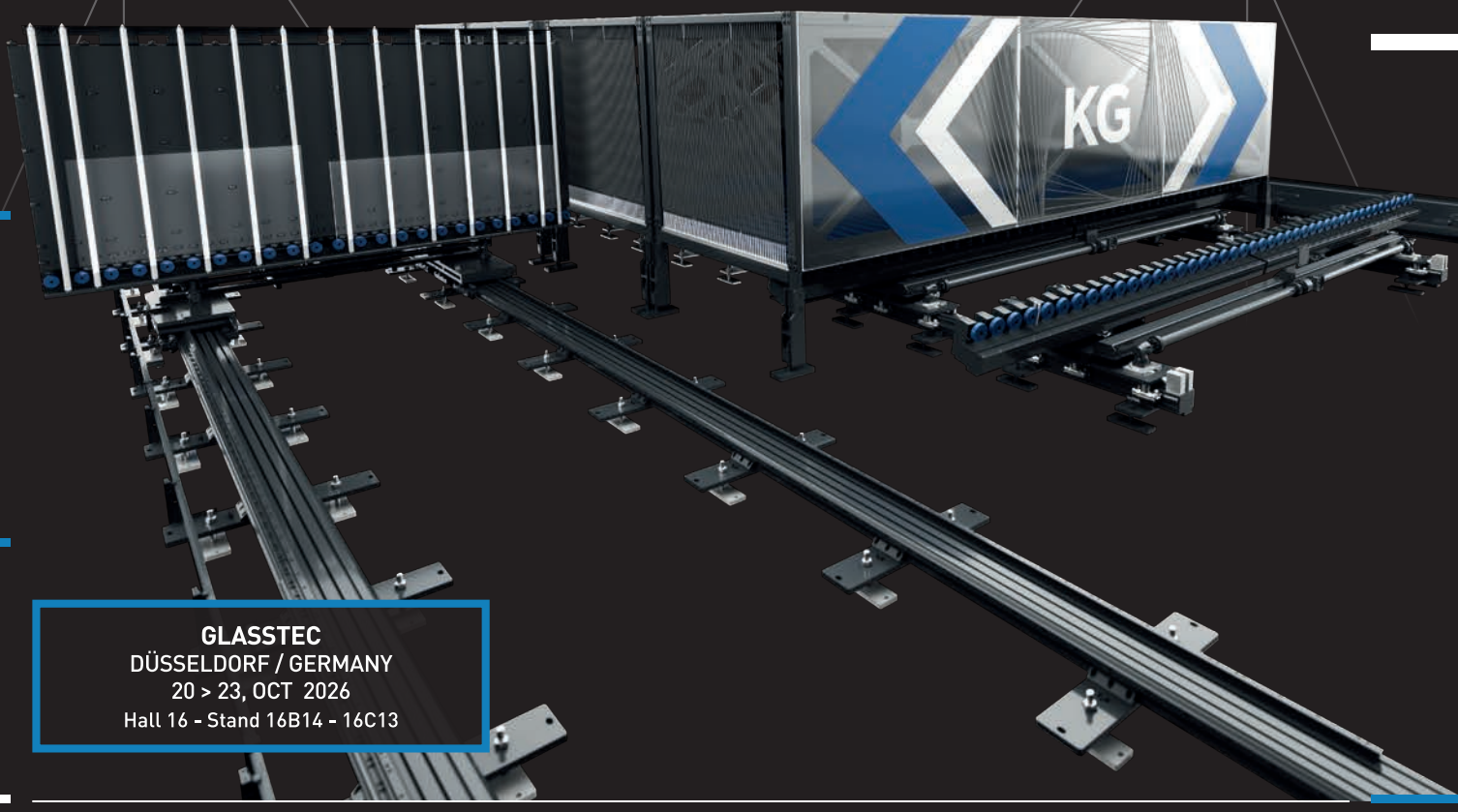




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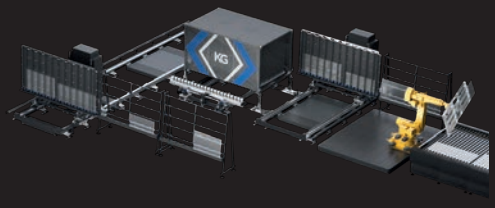
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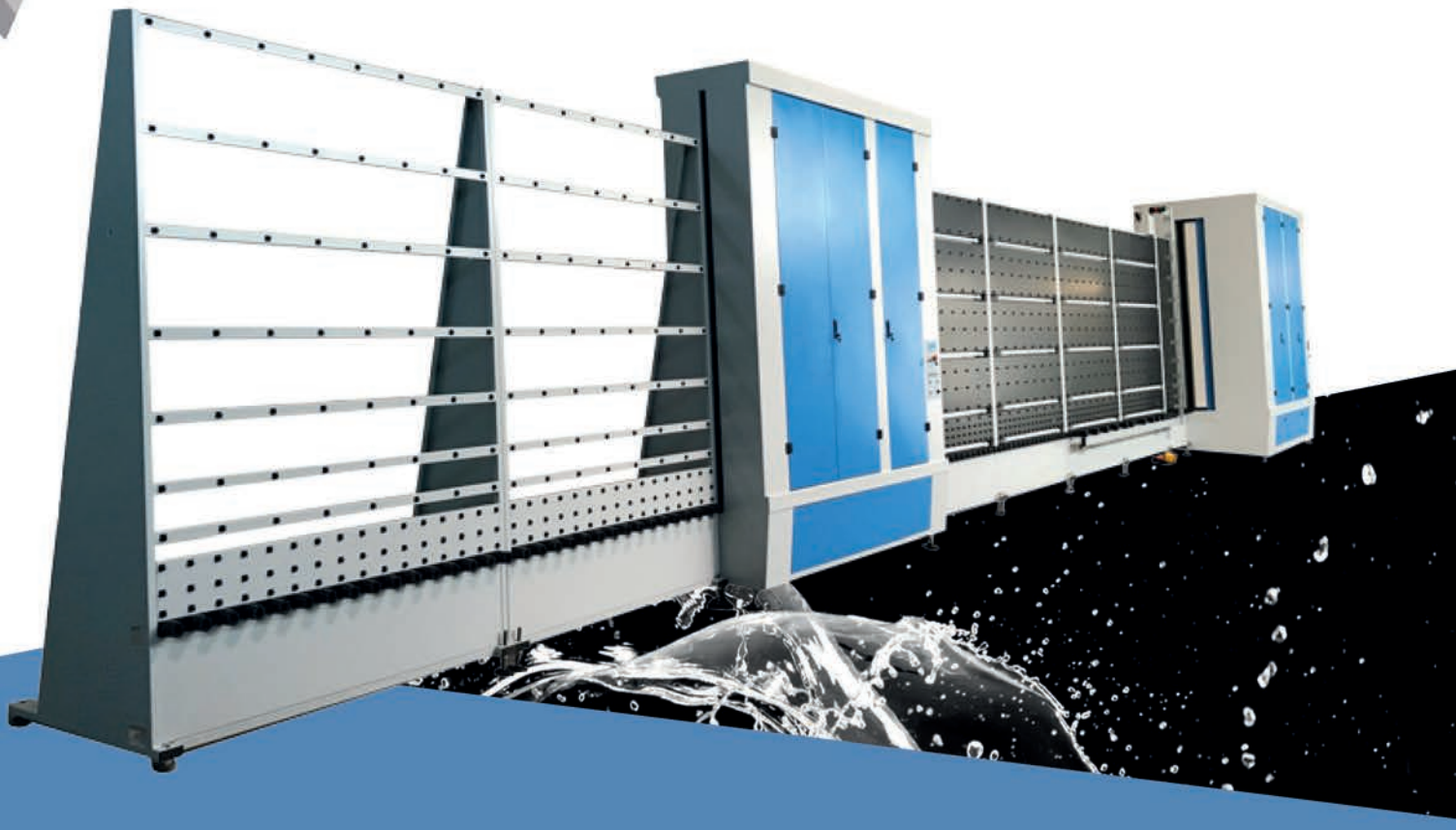
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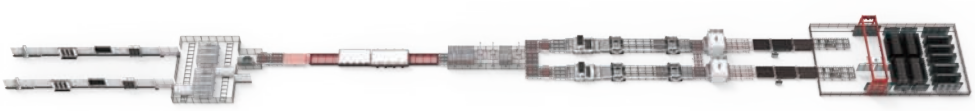
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GIMAV

glassWAYS: bringing the Italian glass industry system to international trade fairs

Global competition is increasingly about competing as a system, and Italian industry must be able to present itself as a system too.
This is the idea behind **Italian glassWAYS by GIMAV**, the new project designed to enhance and coordinate the presence of Italian companies operating in the glass industry at the world's leading international trade fairs.
The first stop will be glasstec 2026, taking place in Düsseldorf from October 20 to 23, where GIMAV will introduce a new way of presenting and making the Italian presence more visible and recognisable.

The objective is simple yet ambitious: to transform multiple individual presences into a coordinated industry presence, creating a route that guides operators and visitors through the technologies, expertise and Italian companies exhibiting at the show.

All Italian glass technology along one route

At glasstec, the natural starting point will be Hall 16, historically characterised by a strong Italian presence. But Italian glassWAYS has been conceived precisely to go beyond the physical boundaries of a single hall.
The route will also connect GIMAV member companies exhibiting in other areas of the show, creating a widespread map of the Italian glass industry across the exhibition grounds.
One identity and one route will make immediately recognisable what, within a major international trade fair, is inevitably spread across different stands, halls and exhibition areas.

From glasstec to the world: Italian glassWAYS to travel with Casa GIMAV

glasstec represents the first stop, not the final destination. Italian glassWAYS has been conceived as an international project to be replicated at the overseas trade fairs attended by GIMAV through Casa GIMAV, adapting each time to the characteristics of the event and to the presence of Italian companies.
The ambition is to build, over time, a permanent and travelling platform for the international promotion of the Italian glass industry. Cities, trade fairs and exhibitor locations will change, but Italian glassWAYS will remain recognisable: the route through which international operators, buyers and stakeholders will be able to identify and discover the Italian presence. The project will also be able to evolve progressively, complementing visibility and discovery tools with new opportunities for connection, networking and business matching. In this way, Casa GIMAV will not simply represent the Association's presence at international trade fairs but will also become one of the hubs from which Italian glassWAYS takes shape.

A new asset for the international promotion of the Italian glass industry

Italian glassWAYS is not intended to be a quality label or simply a communication campaign. Behind every individual exhibitor lies an industrial heritage built on technology, innovation, specialisation, expertise and manufacturing excellence.

Italian glassWAYS aims to make heritage visible as a system

"With Italian glassWAYS, we want to take a further step forward: not simply to be present at the leading international trade fairs, but to build a recognisable route that allows the market to find and discover Italian companies as part of a wider system. We are starting with glasstec, but Italian glassWAYS has been designed to travel alongside Casa GIMAV at international trade fairs such as China Glass and GlassBuild America, growing step by step as a tool for promoting and connecting the Italian glass industry," said Lucia Masutti, General Manager of GIMAV.

WWW.GIMAV.IT

TROSIFOL

Trosifol® SkyViera®: Design the Sky. Define the Experience



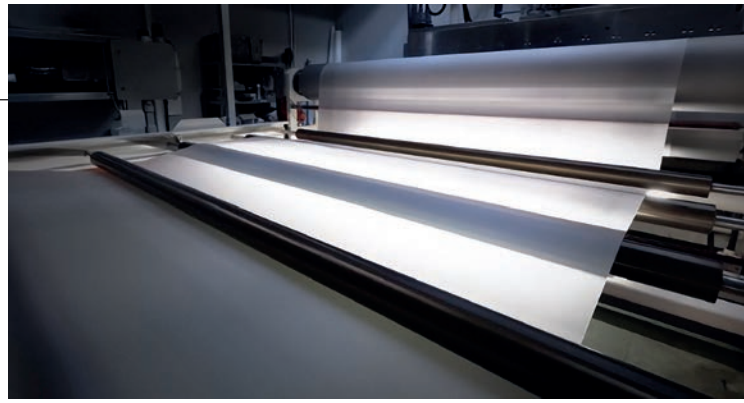
Trosifol® SkyViera® transforms automotive roof glass into an illuminated design and lighting surface, creating immersive passenger experiences and new opportunities for brand differentiation.

- Turn roof glass into dynamic lighting and visual design elements
- Create premium passenger experiences with exceptional visual quality
- Express distinctive brand identities through customised designs
- Enable efficient integration for consistent and scalable global series production

Trosifol believes that with Trosifol® SkyViera® it is shaping the next generation of automotive roof design, where light, design and brand experience come together to create unique brand signatures and elevate the passenger experience. Glasstec 2026 visitors will be able to experience it firsthand from 20 to 23 October in Hall 10, Stand 48.

WWW.TROSIFOL.COM





SATINAL

STRATO® Solar PV Encapsulants celebrates years of proven performance

In a highly competitive landscape dominated by low-cost Asian alternatives, **Satinal S.p.A.** stands out with its 100 percent Made-in-Italy **STRATO®** Solar PV Encapsulants. While cheap films compromise long-term reliability, Satinal offers a field-tested benchmark for quality, durability and architectural freedom. Backed by EPD verification and ISO 9001 standards, STRATO® remains the trusted European choice for solar panel manufacturers and architects worldwide. Satinal's goal has been to design a product range capable of covering all needs in terms of applications (both the back and front sides of PV modules) and long-lasting performance:

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- POE SOLAR PV / HLT: rapid cross-linking and PID resistance, offered in low-UV or max-transparency versions
- TPO SOLAR PV / HLT: prevents back-sheet yellowing outdoors or optimises front-side solar irradiance
- EPE SOLAR PV: a co-extruded EVA-POE-EVA multilayer sandwich structure
- EVA Solar PV ColorQuant™: integrates solar power into standard building façades and rooftops using a palette of colours, including green, dark grey, light grey and terracotta

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Choosing 100 percent Made in Italy certification guarantees uncompromising durability, structural safety and aesthetic freedom—proving clean energy generation never has to compromise on architectural performance.

WWW.SATINAL.IT

SURVENTIS

Strategic collaboration with Aumovio

Surventis, formerly BASF Coatings, has entered into a strategic development and collaboration agreement with **Aumovio** to advance microstructured optical films for automotive applications distributed under its **Chemetall** brand. The partnership supports the development of innovative solutions for displays and head-up displays to be supplied to customers worldwide. Electrification and autonomous mobility are increasing the importance of advanced displays as key user interfaces in vehicles, driving demand for high-performance and cost-efficient optical components. Surventis brings unique expertise in the design and manufacturing of microstructured optical films, combining deep material science and optical know-how with state-of-the-art nanoimprint technology. Through scalable roll-to-roll nanoimprinting, sophisticated optical micro- and nanostructures can be replicated with precision over large areas, enabling next-generation optical films that enhance performance, functionality and design freedom in future UX systems. Aumovio's expertise in developing advanced automotive displays and head-up display solutions, combined with its deep system integration capabilities, enables the seamless integration of Surventis' technologies into vehicle interiors that meet automotive standards and OEM requirements. Together, the companies have defined concrete development steps and initial industrialisation milestones to guide implementation. Optical films offer a forward-looking alternative to conventional optical components. They can enhance light distribution, improve readability and enable new functionalities in displays and projection systems while supporting scalable and cost-efficient manufacturing. For automotive OEMs, this provides greater flexibility in designing user interfaces and enhancing visual system performance.



WWW.SURVENTISCOATINGS.COM - WWW.AUMOVIO.COM - WWW.CHEMETALL.COM



GLASSTECH ASIA & FENESTRATION ASIA 2026

Return to Kuala Lumpur

Glasstech Asia & Fenestration Asia 2026 (GAFA 2026) will return to Kuala Lumpur, Malaysia, from 10-12 November 2026, at the Malaysia International Trade & Exhibition Centre (MITEC), bringing together the region's glass, façade and fenestration industries under one roof. Marking the 22nd edition of Glasstech Asia and the 9th edition of Fenestration Asia, GAFA 2026 will serve as a key meeting platform for professionals across the glass and built-environment value chain. The exhibition will showcase the latest technologies, materials and solutions spanning glass manufacturing and processing, glass machinery, façades, windows and doors, building-envelope technologies, automation and construction. Industry professionals will have opportunities to discover new products and technologies, connect with suppliers and decision-makers, build business partnerships and explore emerging opportunities across Southeast Asia. Alongside the exhibition, the Asia Façade & Glass Conference 2026 will bring together professionals and thought leaders from across the built environment. Key themes will explore the future of cities through AI, glass and sustainable urban design, smart and climate-adaptive façades for tropical environments, as well as transformation and operational excellence in glass processing and manufacturing. As the glass, façade and fenestration industries continue to evolve alongside Southeast Asia's rapidly developing built environment, GAFA 2026 aims to provide a platform for knowledge exchange, industry collaboration and new business opportunities. Industry professionals are invited to be part of GAFA 2026 and connect with the region's glass, façade and fenestration community. Attendees can secure their visit now to discover the latest industry innovations, insights and business opportunities at GAFA 2026.

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ZANATTA VETRO

Glaston Jumbo Series running on Autopilot

"The quality of glass we process has improved, efficiency has increased, and our operators are proud of what they can achieve with the new line," said Gianluca Gastaldon, Sales Manager at **Zanatta Vetro**. Founded in 1972, Zanatta Vetro has grown into a premium glass fabricator specialising in oversized insulating, heat-treated and laminated glass. From its headquarters in Montebelluna, Italy, approximately 60 km northwest of Venice, the company supplies high-quality architectural glass solutions to customers across Italy, France and even the United States. Over the years, the company has contributed to numerous landmark projects, including Galeries Lafayette in Luxembourg, the Dior store in San Francisco and Torre Diamante, a 140-metre-tall icon of modern Milan. Beyond flexibility and a broad product offering, one factor stands at the core of Zanatta Vetro's success - a commitment to continuous development. Last year was no exception. As part of its growth strategy, Zanatta Vetro invested in a new **Glaston** Jumbo Series flat tempering furnace. "Our goal with the investment was to further increase quality and production capacity, enabling us to enter new markets," said Gastaldon. By October 2025, the line was fully installed and commissioned. Designed for everything from small formats to ultra-large glass sizes, the Glaston Jumbo Series combines a range of unique features, including advanced heating control and intelligent convection technology. Together, these features ensure the superior quality and flawless results required by the demanding architectural glass market. "We are especially pleased with the low distortion level we can achieve," Gastaldon noted. A key advantage of the new tempering line has been Glaston Autopilot, which Zanatta Vetro has been using continuously for several months. Autopilot automatically manages tempering process parameters, helping operators achieve consistent results regardless of experience level. By minimising manual control, it simplifies operations, reduces energy consumption and ensures stable quality across every shift. "For us, Autopilot has delivered exactly what we expected. In practice, all the operator needs to do is load the glass. The system takes care of the rest," said Gastaldon. Since commissioning, the company has seen a clear difference in day-to-day production performance. "Our operation is faster and more efficient, and our glass quality is consistently high," he added. The positive impact of the investment has been visible throughout the organisation and beyond. "Our operators are very proud of the new equipment. Moreover, our customers have also noticed the difference in the glass they receive." For Zanatta Vetro, the line fits well with its strategy of continuous growth, driven by improved efficiency and high-end production. "We would certainly recommend Glaston to others. It's all about quality and service support," Gastaldon concluded.

WWW.GLASTON.NET - WWW.ZANATTAVETRO.IT

UNIGLASS

Introduction of EVA Laminating Solution

Uniglass's product portfolio is expanding. A new **Uniglass** EVA Laminating Solution gives glass processors a single, flexible platform to enter the architectural, decorative, smart glass and specialty markets.

One solution. Multiple product opportunities

Processors can produce a wide range of premium products, including architectural and curved laminated glass, switchable privacy glass, security glazing, decorative glass, LED glass and photovoltaic panels, turning standard glass into higher-margin, higher-value output.

Increase the value of every square metre

The platform transforms standard glass into products with greater added value and margin potential, opening the door to new markets where architects specify, designers value and building projects demand them.

Unlock smart glass production

By integrating switchable films directly into the laminated structure, EVA technology enables efficient production of privacy glass for offices, residential buildings, hotels and interior applications.

Built for large and mixed orders

A four-layer, double-independent production concept supports large-format projects alongside smaller, customised batches, giving processors the flexibility to run major architectural orders and mixed product runs in parallel.

WWW.UNIGLASS.COM



AGC

Investment in Lodelinsart plant to extend coated glass range



AGC Glass Europe, the European branch of world-leading glass manufacturer AGC, announces a major investment to upgrade its magnetron coater in Lodelinsart, Belgium. This ambitious initiative represents a significant capital injection and underlines AGC's ongoing commitment to meeting its customers' growing needs. AGC Lodelinsart is known for its high-quality silver-based coated glass, sold all around the world. Its coater produces low-emissivity and solar-control coatings. Coatings are extremely thin, almost invisible layers of metal and metal oxide that are deposited on the glass to give it better thermal insulation and/or protection against solar radiation. AGC has for years been committed to developing products that contribute to sustainable architecture. Its high-performance coated glass plays an important role in improving the energy efficiency of buildings and thus reducing their energy consumption and CO2 emissions. The technology upgrade will enable the extension of the product range to new high-performance coatings and will improve the flexibility required to manufacture complex and innovative coated glass products, thereby further strengthening the competitiveness of the AGC Lodelinsart coater. The upgraded line is expected to be operational by the third quarter of this year. "At AGC, we believe in glass not only as a sustainable material with a future but as a true enabler, capable of regulating heating, lighting and air conditioning. By investing in the upgrade of our coater technology in Lodelinsart, we give our local production of high-performance coated glass products a new future," said Davide Cappellino, President Architectural Glass Europe & Americas. At the Lodelinsart site, AGC also produces vacuum glazing for the architectural market.

WWW.AGC-GLASS.EU

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LiSEC & PROFIGLASS

Reliable spacer bending

Founded in 1989 in Belgrade, Serbia, **Profiglass** has developed from a small family business into a reliable supplier of insulating glass for window manufacturers. With a team of around 30 employees, the company focuses on one key principle: delivering consistent product quality that customers can rely on in their own large-scale production. This consistency is essential in the window industry, where even small deviations in insulating glass can affect performance. Profiglass addresses this challenge with clearly defined production standards, certified materials and a strong emphasis on process reliability. Profiglass has been working with **LiSEC** technology since the early 1990s, integrating various machines for insulating glass production and spacer processing over the years. This long-standing cooperation is built not only on technological performance but also on practical experience in day-to-day production. To meet increasing demands for efficiency and quality, Profiglass recently decided to invest in a new LiSEC BSV-45NK bending machine. The decision was based on a combination of factors: positive experience with existing equipment, the reputation of LiSEC bending technology on the market and the need to further stabilise production processes. Particularly in spacer production, precision is crucial, as it directly impacts the quality and performance of the final insulating glass unit. Even in the initial phase, the new LiSEC BSV-45NK has demonstrated clear advantages in production. The machine enables precise and repeatable bending results, supporting stable processes across a wide range of spacer dimensions. The integrated 15-slot magazine increases flexibility and ensures smooth material handling during production. The automatic magazine selects the correct compartment, further reducing manual intervention and increasing process reliability. In addition, the BSV-45NK is equipped with a heating device, enabling the processing of warm-bendable, glass-fibre-reinforced plastic spacers and opening up additional application possibilities. The system also allows the processing of free special shapes, as DXF drawings can be imported directly into the machine control. At the same time, process control helps to reduce material losses, and the use of an automatically width-adjustable bending tool minimises manual effort.



WWW.LISEC.COM - WWW.PROFIGLASS.RS

TUROMAS

Genco Global as new distributor in the UK and Ireland



TUROMAS has appointed **Genco Global** as its new distributor for the United Kingdom and Ireland, strengthening its presence in both markets and bringing its range of solutions closer to glass industry professionals. This new partnership will provide companies in the sector with more direct access to TUROMAS' range of solutions, including cutting tables for float and laminated glass, smart storage systems and automation solutions. Genco Global has more than 60 years of experience in the glass machinery industry. The company specialises in the sale of new and used machinery, installations, repairs, technical support and the supply of spare parts for glass processing equipment. With this agreement, TUROMAS continues to expand its international distribution network by partnering with companies that offer strong technical expertise, extensive knowledge of the local market and the ability to support customers throughout every stage of their projects.

WWW.TUROMAS.COM - WWW.GENCO-GLOBAL.COM



SAINT-GOBAIN and AGC

Partnership for large-scale electrified furnace

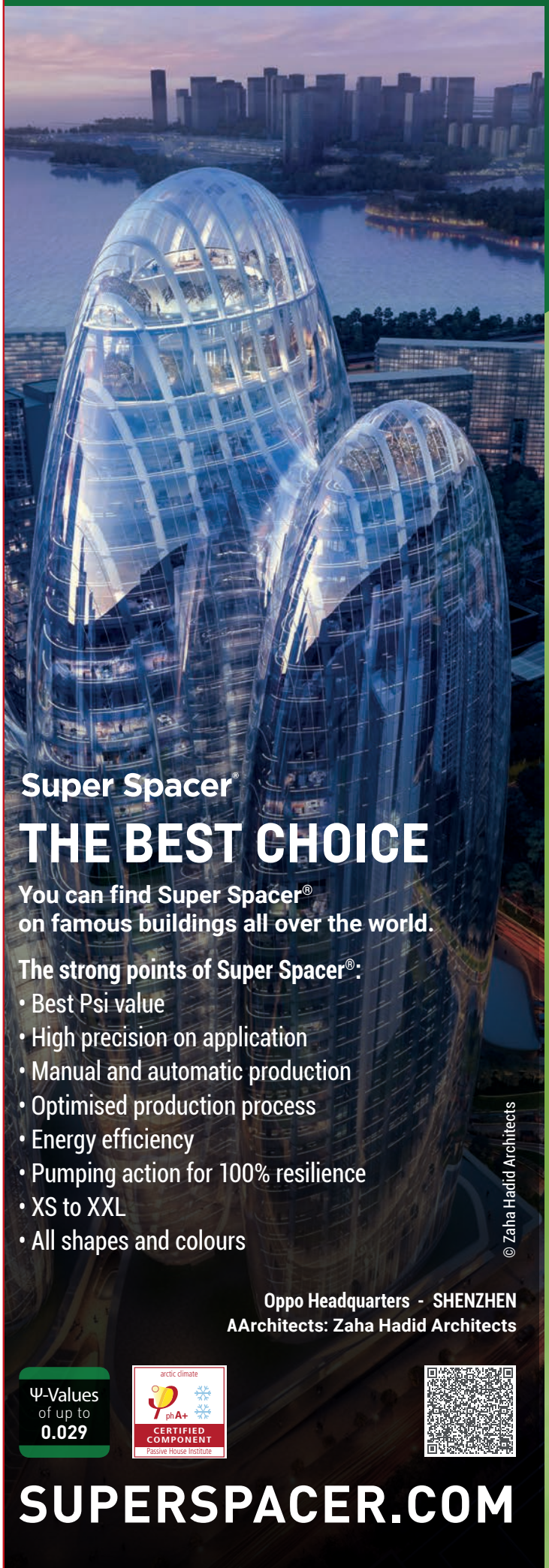
Saint-Gobain, worldwide leader in light and sustainable construction, and **AGC Group**, worldwide flat glass manufacturer, announce that they are collaborating to deploy a large-scale, highly electrified hybrid furnace for flat glass production, designed to significantly reduce direct CO2 emissions. The new furnace will be installed at Saint-Gobain's flat glass plant in Avilés, Spain, replacing the existing furnace. Construction is expected to start in January 2027, with production resuming in the second half of 2027. The FurHy project will be carried out in a technological partnership between Saint-Gobain and AGC Glass Europe, following their successful collaboration since 2023 on the VOLTA project, a smaller pilot electrified furnace operated in the Czech Republic. That pilot has proven the feasibility of electrification technologies for decarbonising flat glass production. The hybrid furnace is expected to achieve 75 percent electrification of the melting process, representing a significant technological advancement for the flat glass industry. It will be powered by low-carbon electricity, secured through renewable energy supply agreements contracted in Spain by Saint-Gobain. This type of furnace is the largest electric furnace ever built for flat glass, making it a world first. Once operational, the project is expected to:

- Avoid approximately 80 kt CO_2eq emissions per year, corresponding to around a 50 percent emissions reduction compared with a conventional gas furnace.
- Save approximately 265 GWh of natural gas per year, the equivalent of an 80 percent reduction compared with a standard gas furnace.
- Enable the production of lower-carbon flat glass reaching the best existing international standards
- Support the growing need for more sustainable solutions for the residential, non-residential and infrastructure markets in the region

The project is funded by the European Union Emissions Trading System (ETS) Innovation Fund.

WWW.SAINT-GOBAIN.COM - WWW.AGC-GLASS.EU

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CARDINAL GLASS

World's first float glass carbon capture installation

Cardinal FG's float glass facility in Winlock, Washington, site of Cardinal's planned carbon capture installation (the photograph shows the existing facility; it does not show installed carbon capture equipment); system operations are planned for Q1 2029 - Credit: Courtesy of Cardinal Glass Industries Cardinal Glass Industries has committed to the world's first carbon capture installation at the company's Cardinal FG float glass facility in Winlock, Washington, USA. Cardinal has issued purchase orders and paid deposits for critical and long-lead project items. The project follows Cardinal's feasibility, design and engineering work with K2-CO2 of Padova, Italy. The system is expected to capture approximately 130,000 metric tonnes of CO2 per year and is designed to remove up to 95 percent of CO2 from targeted float glass manufacturing process streams. Float glass manufacturing requires continuous, high-temperature furnace operations. The process produces CO2 from the energy used to melt glass and from glassmaking raw materials. The Winlock system is being developed to address both sources within targeted process streams. Cardinal is working with K2-CO2 to integrate the capture system into the operating float glass facility. Cardinal and K2-CO2 will use the controls and measurement instruments needed to monitor system performance. The project is not currently receiving government funding.

Cardinal is exploring potential future markets for the captured CO2

Cardinal and K2-CO2 have also patented a system that enables the use of additional gases from the resulting flue gas. The work adapts carbon capture technology to the technical requirements of float glass production. Cardinal has invested in emissions control, process efficiency and high-performance glass technologies across its float glass operations. The company has achieved minor-source status for regulated emissions across much of its float glass network. Once the system is operating and its performance has been demonstrated, the expected reduction in embodied carbon in Cardinal glass can help customers offer products that support architects pursuing lower-embodied-carbon project requirements. "This is not a one-time announcement; it is part of a broader roadmap," said Bowie Neumayer, President of Cardinal Glass Industries. "The Winlock project gives us a defined first installation, a concrete operations target and the opportunity to generate the performance data needed to evaluate future deployment across additional float glass lines." Winlock is Cardinal's first installation of this technology. Cardinal expects to provide updates as installation, commissioning and validation milestones are reached.

WWW.CARDINALCORP.COM

LiSEC

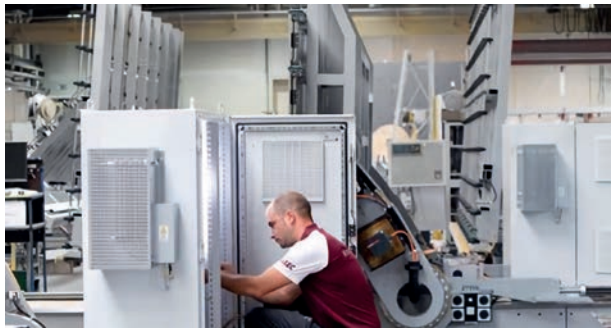
After-sales service tips: spare parts & wear parts

When every minute counts, a good spare parts strategy ensures real reliability. From identification and planning right through to availability, **LiSEC's** teams know the tricks of the trade to prevent downtime. LiSEC experts recommend:

- Find spare parts quickly and reliably - the MyLiSEC portal will show customers everything at a glance.
- Plan spare parts proactively to avoid unplanned downtime.
- The more complete the information, the quicker the solution (serial numbers, photos, fault description).
- Bundle orders to avoid unnecessary delivery costs.
- Pre-installation site visits by fitters ensure planning certainty.

Good spare parts planning ensures supply security and stable processes.

WWW.LISEC.COM



EASTGLAZ

Technology developed around customer needs

The topping-out of the integrated **Eastglaz** R&D, Business and Service Centres marks a new milestone in the company's development and reflects its commitment to innovation, intelligent manufacturing and customer service. A well-known Chinese saying states, "Good products will always find their market." At Eastglaz, this inspires a different question: what makes a truly good product? After nearly 30 years of experience in glass processing machinery, Eastglaz believes that quality alone is not enough. A successful machine must solve customers' production challenges and create measurable value. Every inquiry, application and piece of feedback helps shape future innovation. Listening to customers has therefore become the foundation of Eastglaz's product development. One example is the company's patented jumbo insulating glass double-plate pressing technology, which enables efficient production of super-jumbo insulating glass with high precision and stable quality. During discussions with customers, some challenges repeatedly emerged: how to improve gas filling efficiency, reduce gas consumption, accurately control filling volume and ensure long-term insulating glass performance. Rather than focusing only on equipment design, Eastglaz examined these questions from the perspective of glass manufacturers and building professionals, whose priority is reliable product performance throughout the life of the building. This customer-driven approach led to the development of the Online Gas Filling Technology for Jumbo Insulating Glass. The system integrates precise gas measurement, intelligent calculation, stable-pressure gas pre-storage and a fully sealed, leakage-free 'Shadow-Following' gas filling system, delivering accurate gas filling, improved gas utilisation and consistent production quality. Today, the solution is used by customers in international markets, helping manufacturers improve insulating glass quality while increasing production efficiency. The development of jumbo online gas filling technology reflects Eastglaz's commitment to customer-oriented innovation and its vision of moving from 'Made in China' to 'Created in China,' delivering intelligent solutions for the global glass processing industry.



WWW.EASTGLAZ.COM

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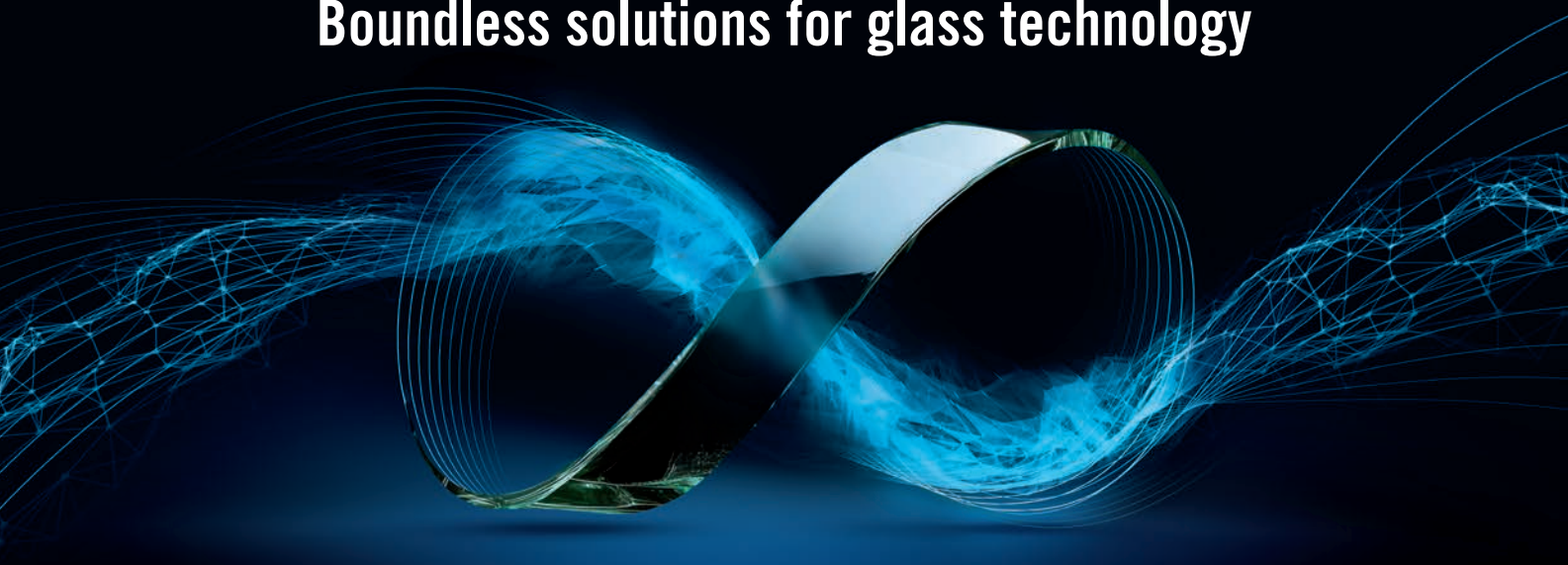
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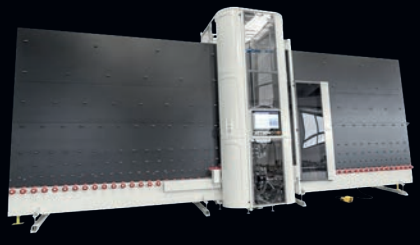
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HALL 16
STAND A04

SCHOLLGLAS & LANDGLASS

Partnership to redefine high-end glass processing

Founded in 1969 and headquartered in Barsinghausen, Germany, the **Schollglas Group** is a globally oriented network of companies.

Today, the influence of Schollglas radiates across the European market and beyond. With around 1,400 colleagues from different nations working at 18 locations in Germany, Poland, Denmark and the Netherlands, the group has established a highly efficient global service network. Schollglas possesses outstanding expertise in the production of insulating glass, toughened glass and laminated glass.

As a German manufacturer committed to long-term value, Schollglas maintains uncompromising standards for production equipment. They require exceptional stability, processing precision, and robust technical support from their suppliers.

Since their initial collaboration in 2015, Schollglas and **LandGlass** have built a profound strategic partnership spanning a decade. The group has procured a total of three high-end tempering furnaces from LandGlass. The partnership began in 2015 with the purchase of two LandGlass tempering furnaces that quickly became integral to Schollglas' production system, providing essential support for their home appliance glass division. Driven by a decade of successful operation, Schollglas deepened the cooperation in 2025 by adding the A2442T3 double-chamber glass tempering furnace for large-scale, high-quality glass processing in the home appliance and architectural sectors.

Ralf Mensing and the Schollglas production team vouch for the core value of LandGlass equipment, citing four competitive advantages:

- Exceptional Operational Stability: low failure rates and remarkable continuous operation capacity
- Pronounced comprehensive competitive edge: optimised process configurations and full-lifecycle cost control
- Excellent Processing Quality: Glass processed by LandGlass tempering furnaces exhibits superior flatness, uniform stress distribution, and excellent optical performance.
- Responsive Global Service: LandGlass' service team delivers turnkey support. From installation and commissioning to training and maintenance, LandGlass's proactive end-to-end support efficiently resolves technical challenges and ensures peace of mind for the client.The decade-long partnership between Schollglas and LandGlass represents a perfect synergy between the German pursuit of quality and the technical prowess of China's high-end glass equipment industry.

Moving forward, LandGlass remains dedicated to advancing glass tempering technology. By continuously upgrading equipment performance and core technologies, LandGlass looks to deepen its partnership with Schollglas through premium products and enhanced global services. Together, both sides will serve the global market and write a new chapter of cross-border, win-win cooperation.

WWW.SCHOLLGLAS.COM - WWW.LANDGLASS.NET



FORGLASS

Float furnace hot repair project completed in Egypt



Forglass has successfully completed another international hot repair project for a float glass manufacturer in Egypt, further expanding its international portfolio of furnace repair services for the global glass industry.

The project involved the hot over-coating of the entire float furnace, one of the most demanding types of hot repair work in the glass industry. Successful execution required detailed planning, precise coordination and efficient management of all on-site activities to ensure the work was completed safely and according to schedule.

A team of 115 hot repair specialists was mobilised for the project, with every stage of the repair carried out in accordance with the highest quality and safety standards.

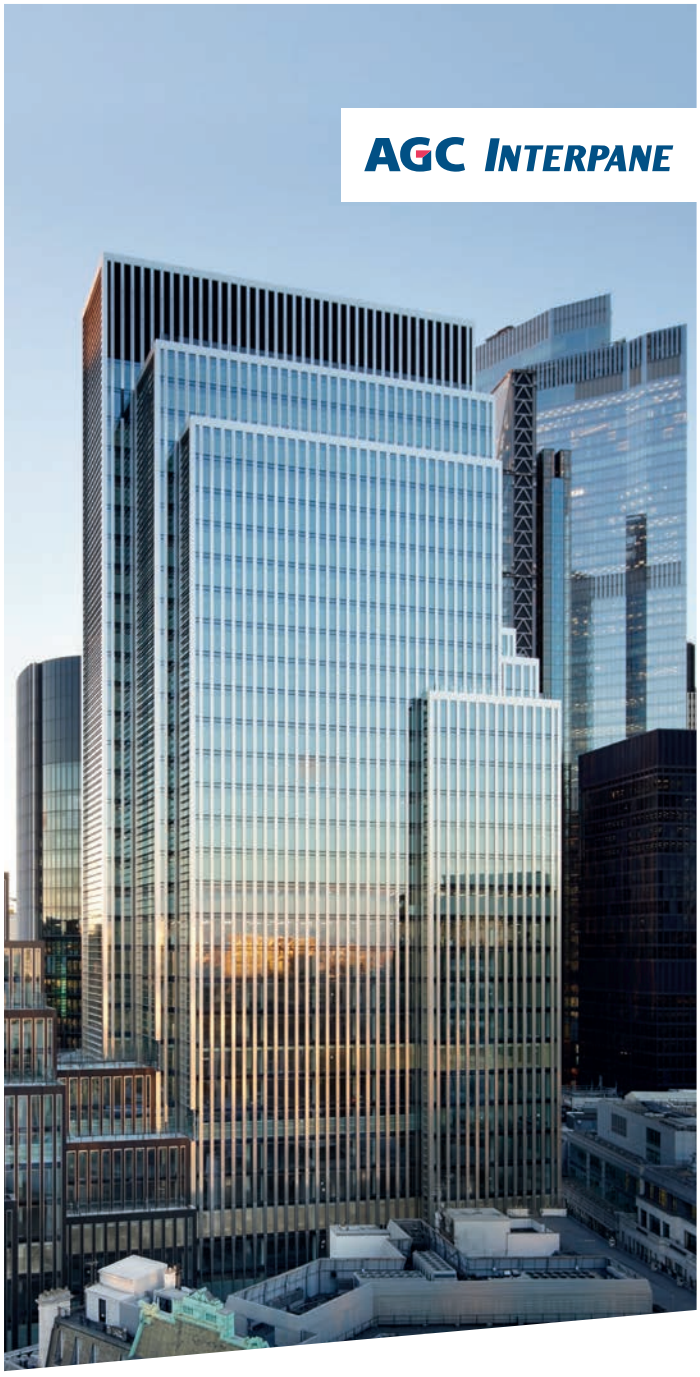
The project further strengthens Forglass's international experience in delivering complex hot repair solutions for float glass manufacturers. With decades of expertise in refractory engineering and furnace repair technologies, the company continues to support glass producers by extending furnace campaign life and helping maintain long-term production performance

WWW.FORGLASS.EU

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Your Dreams, Our Challenge

GUARDIAN GLASS

Inauguration of glass coating line in Egypt

On September 17, **Guardian Glass** inaugurated the high-performance glass coating line installed at its manufacturing facility in 10th of Ramadan City, Egypt, during an official ceremony attended by representatives of the Government of Egypt, Guardian Glass leadership, customers and industry partners.

The ribbon-cutting ceremony was led by Mohamed Farid Saleh, Minister of Investment and Foreign Trade of the Arab Republic of Egypt; Eng. Hazem Al Ashmouni, Governor of Sharqia; and Guus Boekhoudt, Executive Vice President, Global Commercial, Guardian Glass. The new capability expands Guardian Glass' manufacturing operations in Egypt and supports the production of high-performance coated glass for residential and commercial building projects. The coating line manufactures Guardian SunGuard™ Solar Control and Guardian ClimaGuard™ low-E glass for customers in Egypt, the broader Africa and Middle East region and Southeast Europe. The products are suitable for a wide range of residential and commercial building applications, including facades, windows and other glazing solutions.

The sputter coating process used at the facility enables the production of glass that combines solar control and thermal insulation properties with a modern, neutral aesthetic. The coatings help manage solar heat gain and improve building energy performance. Applied to clear float glass, they support daylight, help preserve natural views through the glass and maintain the appearance of colours within interior spaces through high colour rendering. The process also supports consistent product quality, colour and appearance across production batches.

Guardian Glass has operated in Egypt since 2003 and manufactures float glass in Cairo. The site is also home to a service hub supporting customers around the world. The addition of the coating line introduces advanced sputter-coating capability to the country and helps Guardian Glass serve the evolving needs of construction projects with energy-efficient glass products, technical expertise and services available within the region.

WWW.GUARDIANGLASS.COM



XRG

Launch of initiative for transparent architectural display concept

Illustrative public-space applications for **XRG**, including transparent transit information and retail-facing glazing; AI-generated concept visualisation

XRG™ (eXtended Reality Glazing) has launched a public research and prototype-development initiative seeking collaboration with universities, glass and façade specialists, display engineers, manufacturers and technical laboratories.

Developed by inventor Teddy Ristick, XRG explores how architectural glass could become a transparent digital information surface while preserving visibility, natural light and the appearance of the surrounding building. The concept is intended for new construction and the modernisation of existing buildings and public spaces.

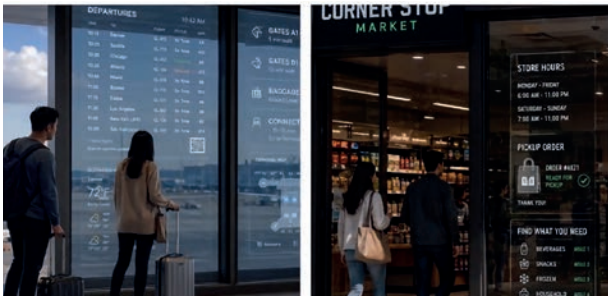
Potential applications include building directories, transportation and campus way-finding, emergency exit guidance, multilingual public information, museum interpretation, retail communication and real-time building alerts. The development roadmap also considers serviceable edge electronics, quick-connect component access, replaceable modules and the future evaluation of recycled-content glass where optical, structural and code requirements permit.

Illustrative interface and prototype-development concepts showing information overlays and a serviceable transparent panel; AI-generated concept visualisation

XRG is being conceived around familiar architectural glazing practices, with the long-term goal of making installation and component replacement practical for qualified glass and glazing professionals. Exact installation procedures, training, testing, certifications and code-compliance requirements remain subjects for engineering development.

The project is currently patent pending and in the prototype-development phase. No functional or production-validated prototype or commercially available XRG product exists. Images and video are illustrative concept visualisations. XRG Glazing is an assumed business name of Millennium Multimedia Inc.

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NSG

Demonstration of horizontal recycling of float glass using waste glass

NSG Group recently announced the successful completion of a demonstration project to manufacture float glass using waste glass recovered from renovation projects. The project was conducted in collaboration with the Flat Glass Manufacturers Association of Japan (FGMAJ).

As part of this initiative, waste glass removed from a building owned by the University of Tokyo was collected jointly with the Association. The recovered glass consisted of 12 millimetre ceramic-printed tempered glass with safety film. The project aimed to achieve horizontal recycling, whereby end-of-life glass is recycled back into new float glass products.

The recovered waste glass was sorted by an intermediate processing company, and glass from which the safety film had been removed was fed into the float furnace of its Chiba plant in Ichihara City, Chiba Prefecture, in late August 2026. Manufacturing trials were conducted, along with evaluations of product quality and operational impacts on the production process. The results confirmed that, under certain conditions, the recovered material could be used successfully as a recycled raw material without adverse effects. This demonstration verified the feasibility of producing float glass in Japan using post-consumer glass collected from the market.

In addition, glass that could not be recycled into float glass due to the presence of safety film was diverted to an alternative recycling route, where it was processed and utilised as a raw material for glass wool production through an intermediate recycling company.

In glass manufacturing, glass cullet (pre-consumer cullet) generated during production and recovered before reaching the market has long been recycled almost entirely back into the glass manufacturing process.

However, the use of waste glass (post-consumer cullet) generated from building demolition or end-of-life vehicles as a raw material presents significant technical challenges. Contamination by foreign materials such as metals can lead to production losses, and even trace impurities can have a substantial impact on product quality and furnace operations, particularly in float glass manufacturing, which accounts for most of the architectural and automotive glass production. As a result, most post-consumer cullet collected from the market has traditionally been treated as industrial waste.

In recent years, growing societal demands for carbon neutrality and a circular economy have highlighted the limitations of efforts undertaken by individual companies alone to increase post-consumer cullet utilisation.

In December 2025, FGMAJ established the 'Flat Glass Recycling Vision - First Vision 2025.' Under this initiative, FGMAJ and its member companies, AGC, Central Glass and NSG Group, committed to expanding the recycling of domestic post-consumer cullet across the industry.

WWW.NSG.COM

PYROGUARD

Fire safety glazing for landmark Eindhoven redevelopment

Pyroguard, a leading independent provider of fire safety glass, has delivered a comprehensive fire safety glazing solution as part of the major redevelopment of the TX Building at Strijp-T in Eindhoven, The Netherlands.

Originally constructed in 1929 for Philips and recognised as one of Eindhoven's most significant industrial landmarks, the TX Building has undergone an extensive transformation to create 56,000 m² of contemporary workspace for high-tech businesses. The redevelopment combines the preservation of the building's historic character with modern standards for safety, performance and occupant wellbeing.

A key challenge for the project team was creating open, light-filled interiors while meeting stringent fire safety requirements across multiple occupancies. To achieve this, Pyroguard supplied more than 2,000 square metres of fire safety glass through glazing spe-



cialist Glasdesign for use in internal partitions, stairways, escape routes and fire compartmentation zones throughout the building. The design vision centred on maximising daylight and visual connectivity within the vast industrial structure, while ensuring safe evacuation in the event of a fire.

To support this objective, Pyroguard Protect T-EW30/13-1 and T-EW60/13-1 were specified throughout the development. The toughened fire safety glass provides reliable fire integrity and radiant heat control while maintaining high levels of transparency, helping preserve the open character of the refurbished building. The specification also achieves a 1B1 impact classification and offers strong acoustic performance and UV stability, contributing to a safe and comfortable environment for occupants.

All glazing was installed within timber framing systems, allowing the project team to retain and enhance the building's authentic industrial aesthetic. To support the use of fire-resistant glazing within the timber framing systems, an overall assessment was undertaken by fire safety consultancy Peutz. This validated the proposed installation approach, including the use of pinned glazing beads, ensuring the system met the required fire performance criteria.

For areas requiring enhanced fire protection, Pyroguard Protect T-EI30/18-2 and T-EI60/25-3 were used to provide integrity and insulation performance. In addition to acting as a barrier against flames and smoke, the glazing helps limit heat transfer, supporting compartmentation strategies and helping to maintain safer escape routes in the event of a fire.

The result is a landmark destination for technology-led businesses that honours nearly a century of industrial history while providing a safe, modern environment for future generations

.

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Added-value processing to drive HEGLA presence at glasstec

VALUE-ADDED SOLUTIONS IN LIVE OPERATION

For HEGLA, this year's Glasstec comes with particular significance. The trade fair coincides closely with the company's fiftieth anniversary, creating what Managing Director Toni Schön described as a welcome overlap in dates. Düsseldorf will therefore serve both as an industry meeting point and as the setting for a live presentation of modular systems and production lines designed to deliver added value for customers. HEGLA will be joined at the stand by HEGLA-HANIC, HEGLA boraident and HEGLA RS technology, reflecting the group's partner network. The focus will extend across software, laser applications and glass processing, with the companies presenting innovations in live operation.

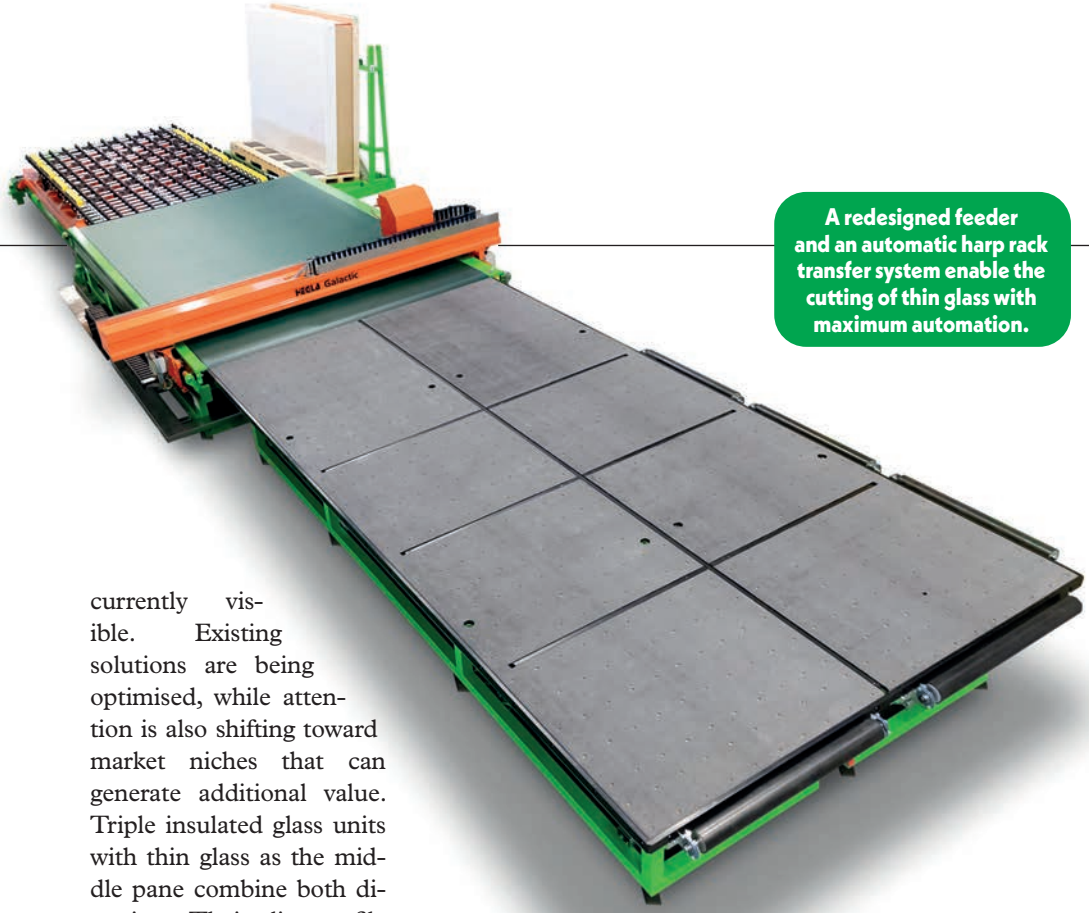
GREATER VALUE CREATION IN NEW MARKETS

According to Toni Schön, two customer trends are

At this upcoming glasstec, HEGLA will be presenting live value-added systems for thin-glass triple IGUs, laminated safety glass cutting, glass365 ERP with AI, RetroWinGuard retrofitting and RS 8.14 VSS wet processing, marking its fiftieth anniversary while partner companies show software, laser applications and glass processing - all at Hall 14.



The Galactic TG enables the reliable cutting of glass as thin as 0.5 mm. It is used as the middle pane in slim, heat-efficient triple insulated glass units.

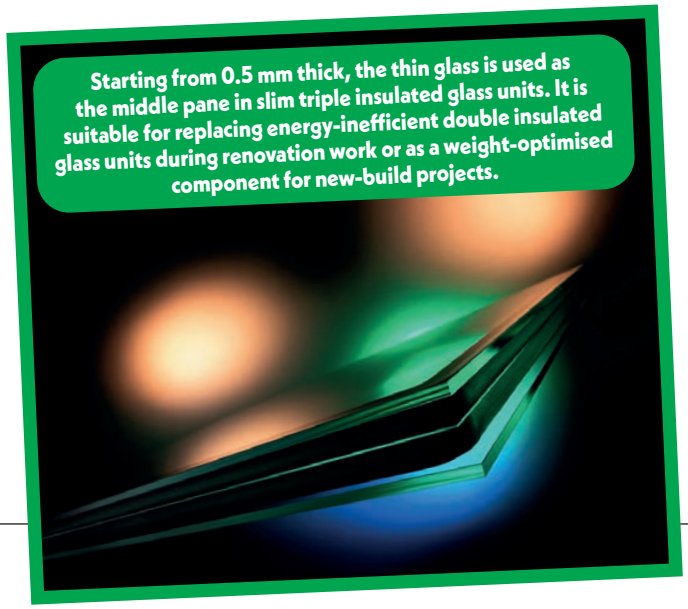


A redesigned feeder and an automatic harp rack transfer system enable the cutting of thin glass with maximum automation.

currently visible. Existing solutions are being optimised, while attention is also shifting toward market niches that can generate additional value. Triple insulated glass units with thin glass as the middle pane combine both directions. Their slim profile and low weight make it possible to replace energy-inefficient double-glazed units with better-insulating triple-glazed units in existing windows. They also offer potential in new buildings, which no longer need to be designed to accommodate heavy glazing. With the Galactic TG, HEGLA will demonstrate cutting technology for glass as thin as 0.5 mm. The system combines an automatic floor loader, the SingleCut TG special cutting head and a harp rack transfer system to support reliable machining of very thin glass. The insulated glass can, for example, be produced on a Glaston line.



The ProLam Neo LSR offers maximum automation and high throughput for cutting laminated safety glass in line with the system's autonomous cycle.



Starting from 0.5 mm thick, the thin glass is used as the middle pane in slim triple insulated glass units. It is suitable for replacing energy-inefficient double insulated glass units during renovation work or as a weight-optimised component for new-build projects.

LSG CUTTING IN LINE WITH THE MACHINE'S AUTONOMOUS CYCLE

The ProLam Neo LSR is designed for maximum automation and high throughput in laminated safety glass cutting. It cuts LSG fully automatically in line with the machine's autonomous cycle, using a patented laser diode heating system that delivers at least twenty percent higher productivity compared with conventional heating technology. The focused heating also produces consistent glass edge quality. The film is heated with pinpoint accuracy and separated without delamination. At Glasstec, a robot will automatically remove the glass and sort it into harp racks without an operator.

USER-FRIENDLY ERP WITH AI INTEGRATION

glass365 is HEGLA-HANIC's new ERP system. Completely reprogrammed on the basis of Microsoft Dynamics 365 Business Central, it combines the familiar user experience of the Microsoft environment with the Bochum-based software com-



Fully automated processes, such as waste disposal, set the ProLam Neo LSR apart as an unmanned, high-performance system for LSG, which can be combined to form a dual-bridge solution.

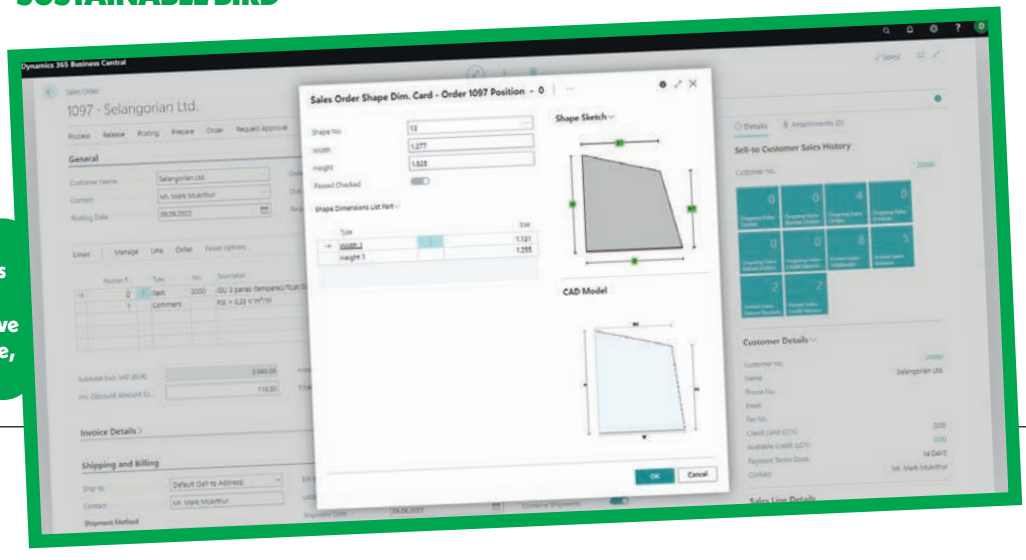
pany's long-standing glass expertise. The ERP has a modular design and covers the typical areas of application for flat-glass-processing companies. Processes can be managed from order entry and price calculation through to stock management, finance, production and data management in the CRM system. AI functions are available to increase convenience, help prevent errors and support automated processes. Orders can be extracted from file attachments or emails and imported into the system after user approval. Quotations can also be generated automatically, and an AI-based stock check can be carried out, including a recommendation for ordering raw glass. The browser-based glass365 system is available on any digital device. It also offers installation flexibility, with local server, cloud and hybrid options. Access to the Microsoft Marketplace allows further apps with predefined data integration to be downloaded.

SUSTAINABLE BIRD PROTECTION AND RF-TRANSPARENT GLASS AS A SOURCE OF ADDED VALUE

Bird protection glass and RF-transparent panes can both be retrofitted using RetroWinGuard. Dr Thomas Rainer, Head of Organisation and Development at HEGLA boraident, notes that certain requirements often become apparent only after new windows have already been fitted. In the case of mobile phone reception, the integrated thermal insulation coating can block signal penetration. RetroWinGuard can structure the metallic layer with a hair-fine, barely visible pattern even after installation, restoring full reception. Bird protection requirements may also emerge only years later, once newly planted bushes and trees have grown and are reflected in the windows. To prevent collisions, a protective pattern can be applied to assembled units using laser printing. Its effectiveness has been tested in the USA and certified by the American Bird Conservancy.

EDGING, GRINDING, POLISHING, DRILLING AND MILLING WITH NO SET-UP TIME

The RS 8.14 VSS machining centre from HEGLA RS technology handles wet processing for both one-off items and series production. It can perform edging, grinding, polishing, drilling, milling, internal grinding and



Programmed based on Microsoft Dynamics 365 Business Central, the new glass365 ERP system is user-friendly and intuitive to use. As browser-based software, it is available on any device.



AI functions are available to ensure a high level of convenience, to help prevent errors and to support automated processes, such as compiling quotes.



With RetroWinGuard, windows can be retrofitted with a protective pattern to protect against bird strikes, or laser structuring can be used to ensure full mobile phone reception

step grinding, finishing glass thicknesses from 1.1 mm to 19 mm to a high standard of quality and precision. The glass is positioned on the alignment table outside the machine's working area, with loading and unloading taking place simultaneously. A key feature is the VarioSaugerSystem, in which the appropriate suction cups are activated according to the format and contour so that the workpiece is secured without set-up time. Together with the automatic tool-changing magazine, this enables special glass types to be processed at high throughput without manual intervention. The system is complemented by a patented multi-channel cooling system that dissipates process heat even at high speeds and ensures consistent edge quality at very high feed rates. For series production, the system can be operated in dual-head mode, allowing capacity to be doubled depending on the glass format. For maximum automation, it can be expanded with an automatic feeding system and an additional conveyor line connected directly to downstream processes. For HEGLA, Glasstec in Düsseldorf will combine new technology with the broader industry role of the trade fair. Toni Schön described it as an opportunity to see innovations and the latest industry trends, as well as to meet long-standing customers and friends of the HEGLA Group. HEGLA, HEGLA boraident, HEGLA-HANIC and HEGLA RS technology can all be visited at Stand A62 in Hall 14.



The panes can still be processed to create bird protection glass or an RF-transparent unit, even at a later stage.

HEGLA

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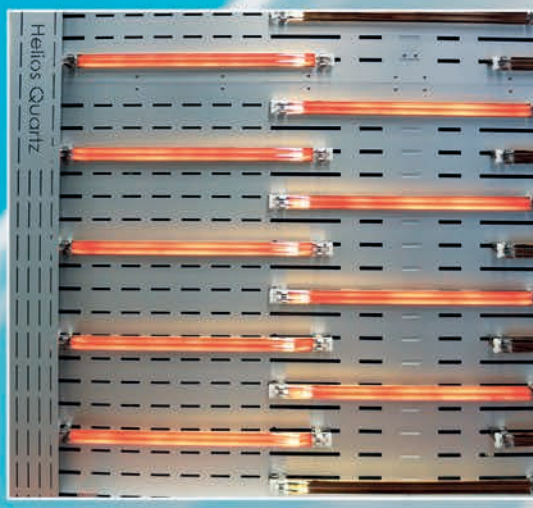
CUSTOM SOLUTIONS with INFRARED and UV technology

Helios Quartz is a leading company specialising in quartz processing and the production of infrared (IR) and ultraviolet (UV) lamps. It also develops specialised equipment for industrial, scientific and medical applications.

Thanks to its extensive experience and its Test Centre at its facility in Milan, Italy, Helios Quartz can test customers' materials directly and identify the most effective and high-performance solution for each process.

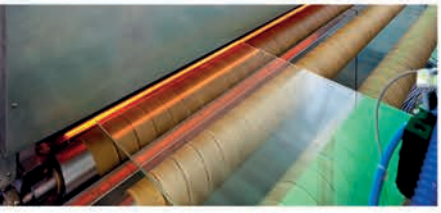


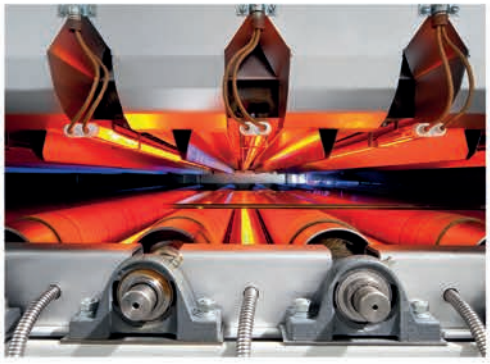




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- bending furnaces
- fusion furnaces
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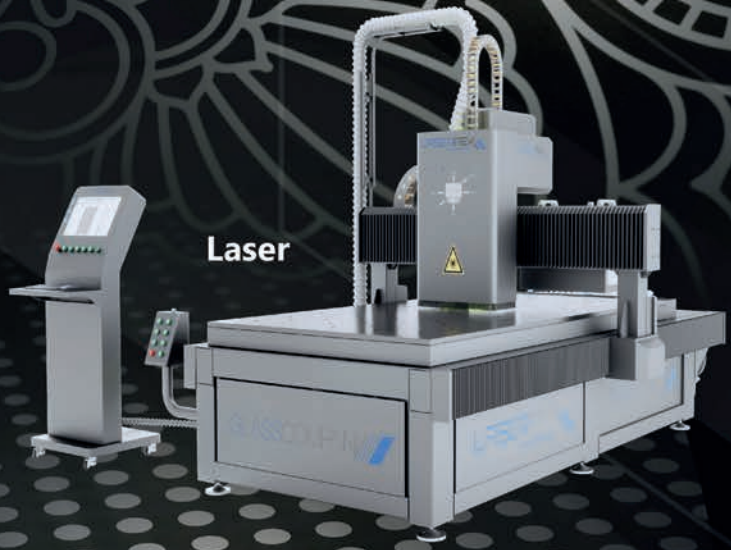
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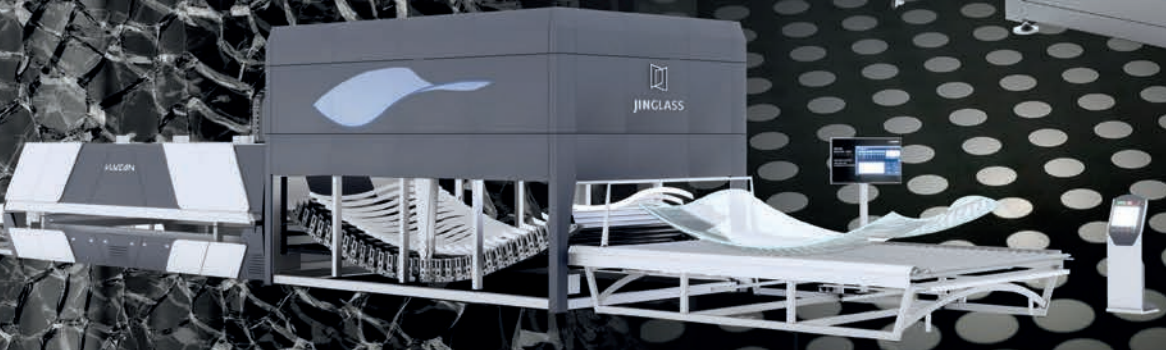
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Water savings highlight ITECH approach to glass processing

At glasstec 2026, ITECH will present APUS, its Automatic Desiccant Filler and Two-Blade Cutting Profile, alongside VEGA, its automated insulating glass line. The company's focus is on automation, efficiency, sustainability, resource savings, precision, flexibility and reduced water, energy and pneumatic consumption across glass production processes.

After several years away, ITECH is returning to glasstec 2026, where the company will once again meet customers, partners and glass-industry professionals in person. The Düsseldorf event will also provide an opportunity to present the development path followed by ITECH in recent years, with automation, efficiency and sustainability forming the principal themes of its approach to modern insulating glass production.

THE SOLUTIONS WE WILL PRESENT AT THE SHOW

Among the technologies scheduled for presentation is APUS, ITECH's patented vertical dry seaming machine. Developed as an alternative approach to a traditional process, APUS operates completely without water during edge deletion. Compared with conventional water-based solutions, its use can save more than 500,000 litres of water annually, reducing both resource consumption and operating costs. The machine processes both sides simultaneously and can reach speeds of up to 30 metres per minute. Its dry operation places resource efficiency alongside production performance as one of the principal elements of the system. ITECH will also present its Automatic Desiccant Filler, developed to automate the profile-filling process. The system is intended to improve efficiency, precision and consistency while reducing the level of operator intervention required during this stage of production. Also appearing at the show will be the Two-Blade Cutting Profile, developed for precise, fast and efficient cutting of insulating glass spacer profiles. Its purpose is to optimise the production process while



giving operators greater precision and reliability. These systems form part of a broader ITECH product range developed around reliable, efficient and innovative technological solutions.

TECH VEGA: DESIGNING THE FUTURE OF INSULATING GLASS PRODUCTION

For ITECH, automation in an increasingly competitive market extends beyond increases in production speed. Consistency, precision, flexibility and efficiency are also central considerations, together with reducing processing times and making more effective use of resources. This approach is reflected in VEGA, the company's automated insulating glass production line. The system is designed for companies seeking a complete and reliable solution capable of supporting their growth.

TECHNOLOGY AT THE SERVICE OF PRODUCTION

VEGA brings together the main stages of insulating glass production within a coordinated and highly automated process. These stages extend from glass washing and preparation through assembly, pressing and gas filling to automatic sealing by robot. Within this production concept, automation is intended to complement rather than replace operator experience. Its role is to make work simpler, more controlled and more consistent while integrating the successive production stages within a continuous process.

PRODUCTIVITY AND EFFICIENCY

ITECH's approach to line performance combines production speed with consistent quality and continuous production. VEGA is therefore available in different configurations and sizes to address varying production requirements. Among these is the H3210 × 6000 mm format, developed for large insulating glass units. The line combines performance,



automated management and flexibility, enabling different insulating glass sizes and configurations to be handled more quickly. Resource consumption is also considered within the design. Recirculation and filtration systems are used to reduce water consumption, while specific technical solutions are intended to optimise energy and pneumatic consumption. For ITECH, reducing these forms of consumption is directly associated with increasing competitiveness.



PERFORMANCE. PRECISION. FLEXIBILITY. EFFICIENCY. RELIABILITY.

These five principles define the VEGA philosophy. Together, they are directed towards helping glass processors improve production, use resources more intelligently and strengthen competitiveness. VEGA is positioned not simply as equipment for insulating glass production, but as an investment addressing present productivity requirements and future competitiveness.





DESIGNED FOR PERFORMANCE. BUILT FOR THE FUTURE.

ITECH's return to glasstec 2026 will therefore centre on both individual machines and the wider role of automation within insulating glass manufacturing. Through APUS, its Automatic Desi cant Filler, the Tw Blade Cutting Profi and VEGA, the compar will present technologi focused on productic performance, precisio flexibility, reliability ar more efficient use of water, energy and pneumatic resources.



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> Traffic management
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Vacuum lamination strengthens RCN curved glass manufacturing

Curved glass processing from RCN combines gravity bending, chemical strengthening and automated vacuum lamination to address transparency, optical distortion, strength, safety, energy costs and production efficiency - all whilst extending ISF applications across marine, electronics, automotive, aerospace, building, furniture, security, defence, display and LCD sectors technology markets.

ISF - TOWARDS A NEW PARADIGM IN GLASS PROCESSING

In recent years, demand has grown significantly for high-performance, technologically advanced glass with multiple functions, including smart glazing, as well as for large-format glass. Yet the key requirements remain unchanged: high transparency, absence of optical distortion, mechanical strength and safety. These requirements become even more important in curved glass. At present, thermal tempering technology for curved glass requires highly specialised and costly equipment, with some systems offering limited efficiency and inconsistent quality output. The main issues relate to surface distortions, undesirable visual anisotropy and challenges connected with glass coupling for lamination processes. These considerations led to the development of ISF, the Integrated Sequencing Framework studied and designed by RCN. The system brings together bending furnaces based on gravity technology, chemical strengthening of glass and vacuum lamination processes using fully automated new-generation furnaces. The system for manufacturing curved and safety glass also reflects the vision and expertise of companies already well established in the glass industry, which have contributed to its rollout, commercial success and rapid expansion in the market. ISF is also successfully applied to flat glass, delivering excellent optical quality and superior performance in terms of safety.



SYSTEM ADVANTAGES

The ISF method offers several benefits that are immediately noticeable.

Advanced Bending

The new generation of bending kilns allows the production of curved insulated glass units with single or multiple bending radii, including spherical curves, in several shapes, thicknesses and dimensions, while eliminating traditional optical imperfections. At the same time, the kilns provide higher production capacity combined with a significant reduction in energy consumption.

Chemical strengthening

Chemical strengthening allows the use of thinner and lighter glass units, providing superior performance compared with thermal tempering in terms of impact resistance and tensile strength.
In addition, it: eliminates the optical distortions and anisotropies typically associated with thermal tempering. It is suitable for complex geometries with virtually no minimum thickness limitation, reduces the internal stresses generated by rapid cooling processes and eliminates the risk of spontaneous breakage caused by nickel sulphide inclusions, making the use of the Heat Soak Test unnecessary. It also provides improved mechanical resistance under both quasi-static loads and dynamic loads, including impacts.



Automated lamination

The final step in safety glass processing takes place through lamination with polymeric interlayers, EVA or PVB, using either disposable or reusable vacuum bags. This process is carried out using LIA furnaces, or Laminated Integrated Automation systems, fully automated units capable of operating without continuous supervision, including during night hours or on public holidays, while ensuring consistently excellent results. Safety glass produced with this system does not necessarily require rigid interlayers to meet post-breakage safety requirements. Since chemical strengthening minimises internal stresses, large fragments can be retained even after breakage, improving structural behaviour. For flat glass, excellent results are achieved through the patented RD Clean Concept system, characterised by perfectly clean edges and a special lamination bag composed of two distinct modules, one rigid and one flexible. This solution also eliminates perimeter distortions generated by vacuum and allows extremely simple use of rigid interlayers.

MAIN BENEFITS OF THE ISF METHOD

The main benefits of the ISF method include reduced energy production costs, lighter glass weight through reduced thicknesses, absence of waviness and optical im-



perfections, improved quasi-static and dynamic load resistance, high post-breakage retention capacity, reduced relevance of HST treatment, greater production efficiency and improved aesthetic and functional quality of the finished product.

Key applications

The applications of the ISF system are extremely varied and continue to expand. In the marine industry, the system is relevant to a rapidly growing sector thanks to its combination of lightweight properties, safety and optical quality. In electronics, applications are already widely widespread, especially for displays, touchscreens and advanced devices.

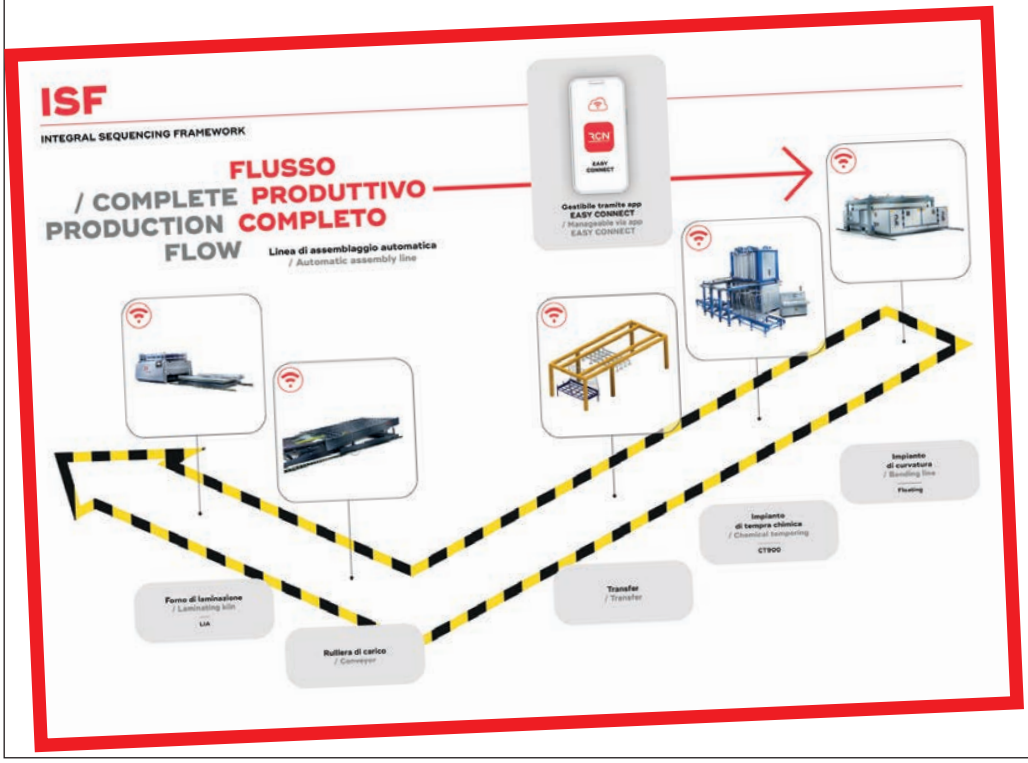
In automotive applications, weight reduction is a crucial factor in increasing the range of electric vehicles. The system is used in windshields, flat and curved roof panels, integrated displays and digital rear-view mirrors.

In aerospace, aeronautics and high-speed rail transport, lightweight properties and high mechanical strength make the technology particularly attractive for advanced transport systems.

In building, possible applications include lighter and safer railings, anti-collapse systems, hail-resistant canopies, triple glazing with ultra-thin inner panes down to 1 mm or less, and ultra-light laminated glass 2 mm thick in a 1.1.1 configuration.

In furniture and interior design, the system can be applied to high-performance thin glass, touch surfaces, distortion-free mirrors, furniture with integrated screens and smart solutions.

In security and defence, it is applicable to high-performance ballistic applications. In display and LCD technologies, it can be used in advanced display systems requiring high optical quality and reduced thickness.



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Integrated production drives BENTELER MASCHINENBAU strategy

Three anniversaries converge for Benteler Maschinenbau GmbH in 2026. These are 150 years of the Benteler Group, 75 years of Benteler Bielefeld in Germany and 25 years of Benteler Liberec in the Czech Republic. Headquartered in Bielefeld, the company has supplied glass-processing machinery and production lines for decades, while its two glass technology locations have played a central role in establishing its position within the industry. More than 4,600 Benteler machines are installed in over 60 countries, complemented by dedicated sales offices in the USA, China and India. The company's activities extend beyond individual machines to complete manufacturing concepts for architectural, automotive and technical glass. Its work ranges from planning new production facilities and supplying individual processing equipment to providing fully automated production lines. Bringing these elements together through a single supplier is intended to coordinate processes, improve efficiency and maintain production costs at sustainably low levels.

SOLUTIONS INSTEAD OF STAND-ALONE MACHINES

Modern glass processors face shorter delivery times, higher quality standards and increasing cost pressures. Benteler addresses these demands through a portfolio covering seaming, grinding, drilling, milling, washing and laminating systems, together with automated handling and material-flow solutions. Across this equipment range, the emphasis is on simplifying production processes, reducing labour requirements and maximising machine availability. Robust engineering is combined with automa-

Marking a trio of anniversaries this year while highlighting decades of glass-processing expertise across architectural, automotive, technical and solar applications, BENTELER MASCHINENBAU's portfolio spans processing, washing, laminating, automation and lifecycle services - all supported by more than 4,600 machines operating in over 60 countries worldwide, with dedicated sales offices.



tion, safety and user-friendly operation, with the aim of supporting cost-effective production and long-term reliability. One example is the patented Gen II grinding machine, developed specifically for solar glass processing. The system has become one of Benteler's leading solutions for this market segment and combines a high degree of automation with short setup times and high system availability. Automatic tool sharpening, integrated wear compensation and reduced maintenance times are designed to increase productivity and lower unit costs. The Gen II machine can consequently be used for both solar glass and other flat glass products, with the objective of maintaining efficient production and consistent quality.

A GLOBAL LEADER IN GLASS WASHING TECHNOLOGY

Glass cleaning represents another established area of Benteler's activities. Its coating washer systems are widely used within the glass coating industry, including in coating lines operated by leading glass manufacturers. Their role centres on reproducible





cleaning results, process reliability and equipment availability. A modular design enables the systems to be adapted to differing production requirements. Cleaning, polishing and drying technologies are combined to maintain surface quality, including in demanding applications. For coating operations, these functions are intended to improve process reliability while reducing rejects and maintaining stable product quality. The same experience is applied to the tecWasher series for glass processing. These systems combine energy-efficient concepts with low operating costs and cleaning performance. According to the information provided, modern system designs can achieve energy savings of up to 30 percent, contributing directly to lower production costs.

AUTOMOTIVE GLASS EXPERTISE

Benteler also draws on decades of experience in automotive glass, particularly in washing equipment for curved windshields, side windows and rear windows. The cleaning systems have been developed for thin and highly sensitive automotive glass, including products with complex geometries. Adjustable drying systems, high-performance water filtration and low-contact or contact-free cleaning concepts are used to prepare the glass for subsequent operations such as lamination, coating or assembly. Benteler additionally supplies complete inline solutions incorporating handling, inspection, trimming and packaging. Combining these operations within a single-source solution reduces interfaces, limits the risk of damage and improves overall production efficiency.

INNOVATIVE SOLUTIONS FOR LAMINATED SAFETY GLASS PRODUCTION

Laminated safety glass represents another focus of

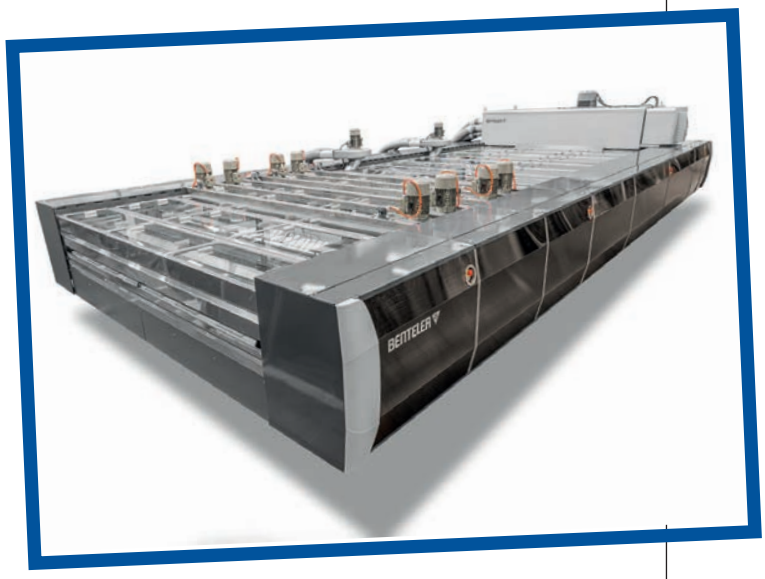


the company's equipment development. Its portfolio extends from standardised entry-level systems to fully automated high-performance equipment for special formats and jumbo glass sizes. Modular configurations allow individual systems to be adapted to specific customer requirements. The lines incorporate automatic interlayer storage, precise glass positioning, fully automated interlayer application and energy-efficient furnace technologies. Together, these functions are intended to maintain product quality and process reliability while addressing operating costs. Modern Benteler laminating lines can reduce the energy consumption of washing and furnace systems by between 30 and 50 percent. The resulting production concept is aimed at providing high output rates and low reject levels for laminated safety glass used in façades, overhead glazing, interiors and demanding architectural projects.

HIGHER PRODUCTIVITY THROUGH INTELLIGENT AUTOMATION

Alongside processing machinery, automation has become an increasingly important part of the production environment. Benteler's offering includes material-flow systems, storage technology and handling solutions designed to connect individual stages of glass production. Automatic loading systems, buffer storage units, robotic solutions and production control systems enable glass to move through the manufacturing process with fewer unnecessary interruptions. The objective is to improve machine utilisation, reduce waiting periods and increase overall equipment effectiveness. For processors, this approach is intended to combine higher output and consistent quality with lower labour requirements. Intelligent buffer systems and automated material flows can also improve equipment utilisation and accelerate return on investment.





PARTNERSHIP THROUGHOUT THE ENTIRE LIFECYCLE

Benteler's involvement with a production line extends beyond its commissioning. The company provides support throughout the machinery lifecycle, beginning with plant-layout planning and continuing through training, commissioning, remote service, spare-parts management and preventive maintenance. These services are directed towards reducing downtime and protecting the long-term value generated by the investment. In this respect, the equipment itself forms only one part of a wider relationship covering the planning, installation, operation and maintenance stages of glass production. Taken together, the company's activities reflect the development of its glass technology operations across generations. The anniversaries of the Benteler Group, Bielefeld and Liberec provide a historical reference point for a business that today combines individual processing machinery with complete production concepts, automation and lifecycle support.

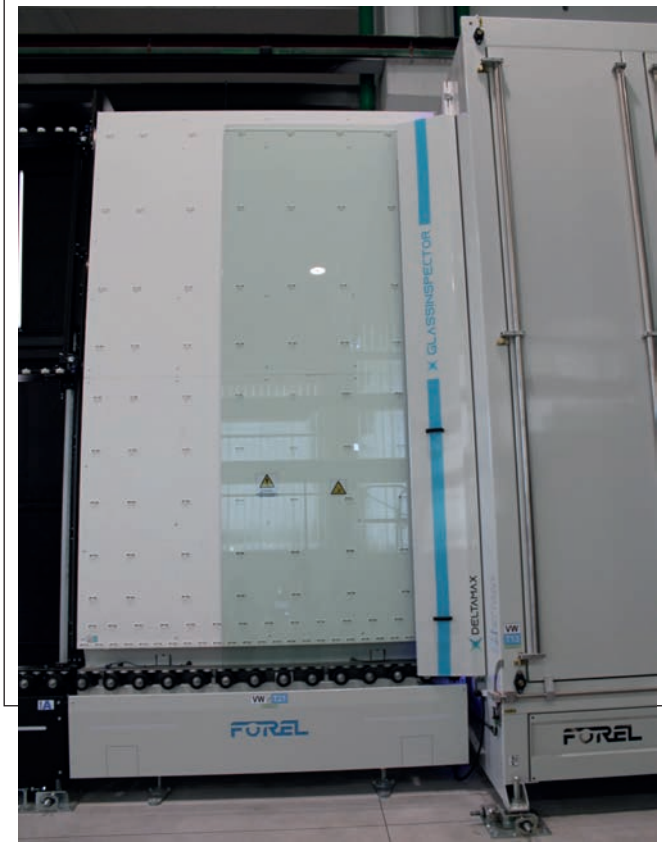
GLASSTEC 2026

Another upcoming opportunity to present this technology portfolio will come at glasstec 2026 in Düsseldorf, taking place from 20 to 23 October 2026. Here Benteler will be presenting its latest technologies and innovations in Hall 14, Booth 14A60.

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Production data links DELTAMAX inspection across multiple stages

Machine vision specialist DELTAMAX has expanded its inspection ecosystem for insulating glass production, adding jumbo-sheet inspection this year while linking quality control across multiple process stages. A Wolf Fenster installation in Pergine illustrates just how well interconnected inspection systems, production machinery and ERP data can work together.

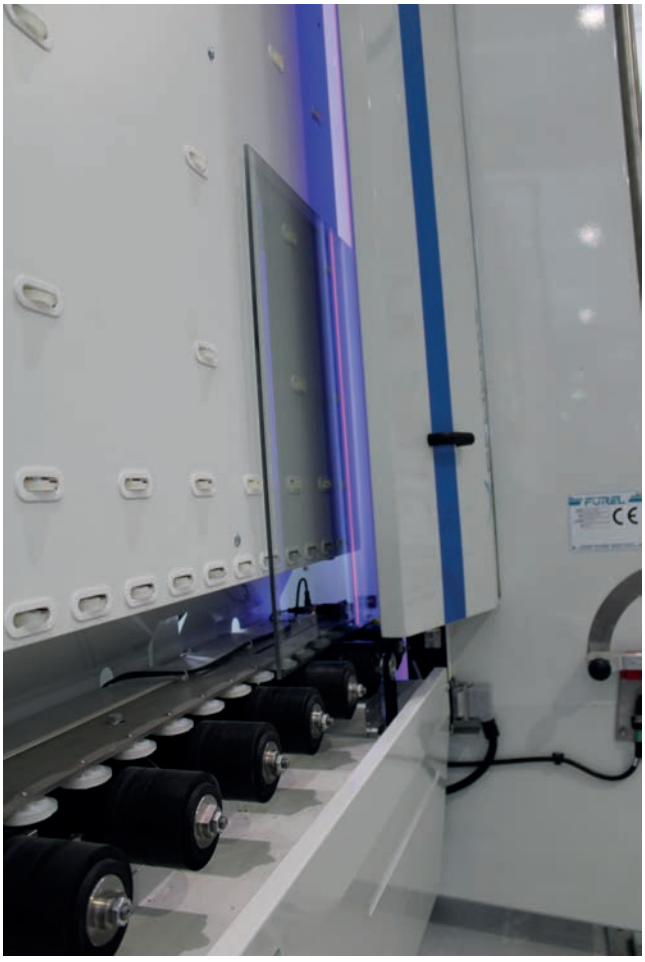


In recent years, Deltamax has significantly broadened its range of machine vision solutions for insulating glass production lines. What was once a single system has developed into an inspection ecosystem designed to accompany glass throughout the manufacturing process, from the jumbo sheet through to the finished insulating glass unit ready for shipment.

FROM INDIVIDUAL INSPECTION TO PROCESS-WIDE CONTROL

Behind this development are more than twenty years of field experience alongside insulating glass manufacturers in over 35 countries. That experience has enabled Deltamax engineers to develop solutions increasingly tailored to the practical requirements encountered on production lines. Precision and reliability are combined with ease of use and low maintenance requirements, providing continuous support and quality control in line with company standards.

The principal development for 2026 is the adaptation of the GlassInspector system for jumbo glass sheet inspection. Following washing, the sheets are checked for structural



defects including bubbles, inclusions, deep scratches and coating defects. Because these defects cannot be repaired and would otherwise result in rejection, identifying them at this early stage has implications for the subsequent production process. Once detected, the defect map is transmitted to the cutting table and used to optimise cutting operations. The objective is to reduce waste and improve overall process yield by taking account of defects before the glass moves further through production. This addition completes Deltamax's portfolio for insulating glass lines. The existing range includes GlassInspector and Q Plus for inspecting washed single panes, together with the IGU Scanner for inspection of completed insulating glass units. Combined, these systems cover different stages of production rather than functioning solely as individual inspection points.

A MULTI-STAGE APPROACH AT WOLF FENSTER

An example of this approach can be found at Wolf Fenster in Natz-Schabs, South Tyrol, Italy. The company has manufactured windows and doors for approximately 60 years, with a portfolio encompassing timber and timber-aluminium windows, sliding door systems, custom façades, special solutions and solar shading products. Its production philosophy combines craftsmanship and attention to detail with a sustainability orientation supported by a fully PEFC-certified supply chain. Seeking full control over its production chain, Wolf Fenster invested in the construction of a glass-processing facility in Pergine. The company chose to emphasise automation and quality in the development of the facility and selected Deltamax to implement four inspection systems distributed across the production line. GlassInspector is positioned at the jumbo-sheet stage to support cutting optimisation and prevent sheets containing non-repairable defects



ABOUT DELTAMAX AUTOMAZIONE

A spin-off of FBK, Deltamax Automazione S.r.l. was founded in 1989 as a research centre based in Trentino with the idea of applying machine vision technologies to industrial applications. During its first twenty years of activity, the company developed expertise in vision solutions for quality control across various manufacturing sectors, building technical know-how that it chose to dedicate exclusively to a single industry already from 2010, namely flat glass. Since then, Deltamax has focused entirely on the development of machine vision systems for flat glass quality control. This path of continuous growth, supported by ongoing investments in research and development, has enabled the company's innovative solutions to be installed today in more than 40 countries across five continents, alongside some of the world's leading glass manufacturers.



from entering production. After edging, Q Plus is used to detect defects arising during one of the most critical stages of insulating glass processing, helping to maintain efficiency in subsequent operations. A second Q Plus inspection takes place before assembly, with the purpose of checking that the internal surfaces of the insulating glass unit are free from defects. After assembly, the IGU Scanner provides the final inspection and also verifies spacer positioning and the presence of butyl around the perimeter or within the transparent area of the insulating glass unit.

CONNECTED DATA ACROSS THE PRODUCTION LINE

The Wolf Fenster installation illustrates how Deltamax inspection systems can operate as elements of a wider quality-control structure rather than as isolated devices. At the facility, the vision systems are interconnected with Wolf Fenster's ERP system and production machinery, providing the interaction required with manufacturing processes and enabling the exchange of data used for production analysis. This function is supported by Deltamax's Production Analyzer software. The software stores the data and images acquired by the individual scanners and allows them to be analysed either by individual inspection station or through a combined assessment of information gathered across all inspection stations. The resulting configuration links inspection at several points along the insulating glass production process, beginning with the jumbo sheet and continuing through edging, pre-assembly inspection and the completed insulating glass unit. In this way, information generated at individual inspection stages can also contribute to analysis across the production line as a whole.



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Jumbo sheets gain coating flexibility through ROLLMAC Glassline

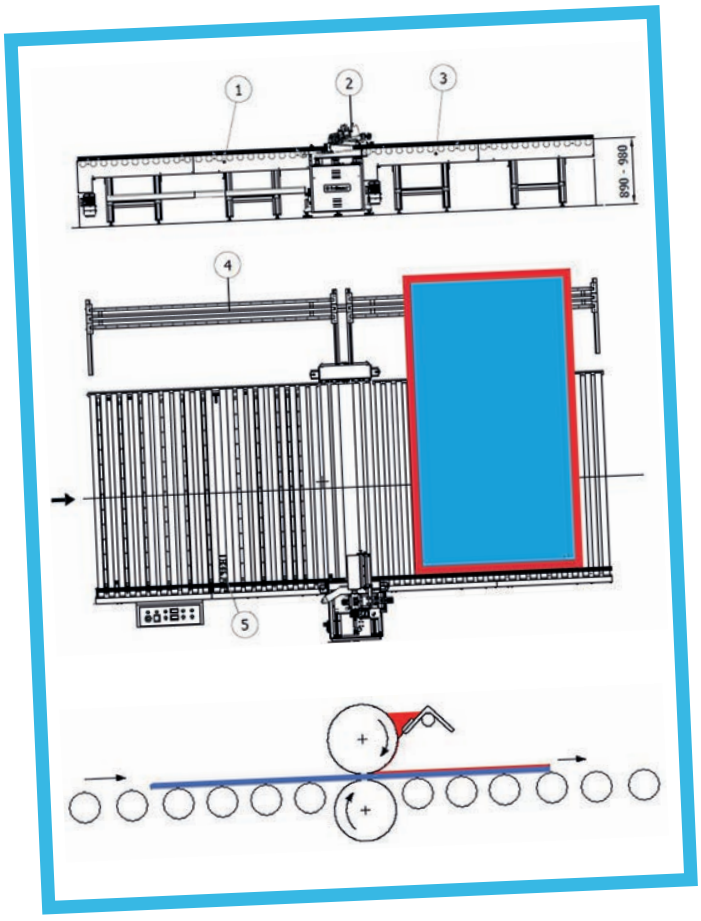
Glassline from ROLLMAC applies painted perimeter bands to flat glass for architectural and furniture applications. Using reverse rotation, engraved roller coating, electronic band adjustment and optional ASR sheet rotation, the system handles glass from 2 mm to 19 mm - including low-E, toughened and Jumbo-size sheets.

The Glassline perimeter coating machine is the latest development from Rollmac, a division of Gemata Spa, for the flat glass coating sector. Developed for a specific requirement in architectural and furniture glass, the machine applies a painted perimeter band along all four sides of the glass sheet.

TARGETED APPLICATIONS

Market response has been highly positive, with installations now in operation delivering excellent results and enabling users to enter new market segments. The main applications for perimeter-coated

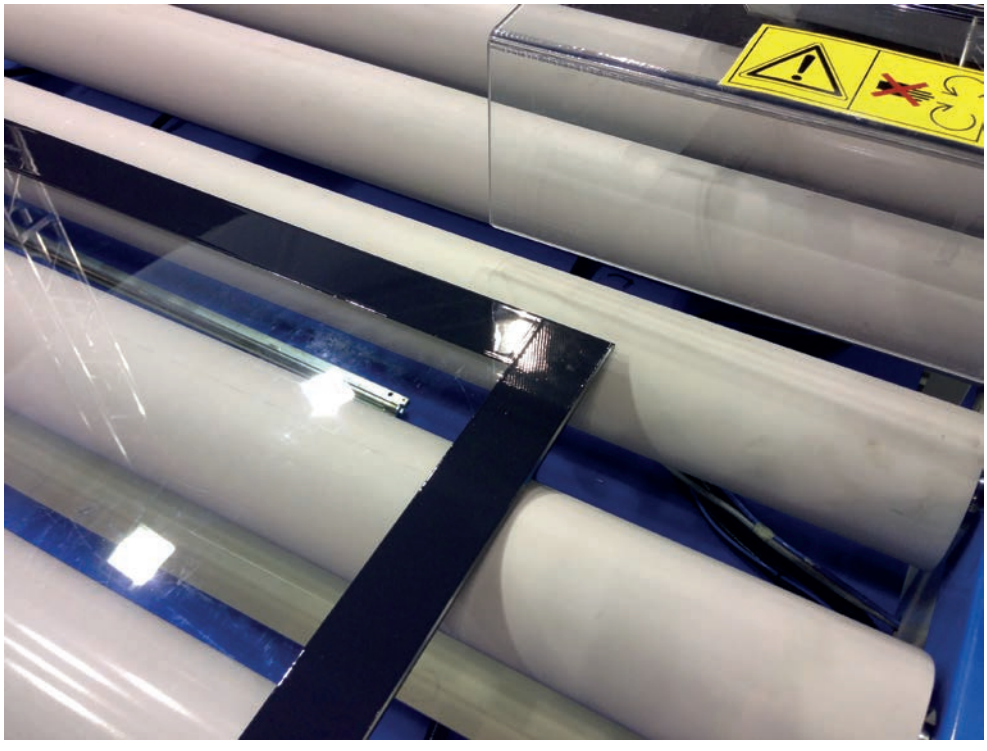




glass include insulating glass units, furniture glass, sliding doors, skylights and glazing for shopping centres and retail outlets. Glassline can coat toughened glass, very thick and extra-thick glass, assembled insulating glass units and low-E glass. A further specialised application is the coating of the lower band of glass used for parapets and balustrades. The system consists of three main components: an infeed roller conveyor with a 1) liftable ball transfer system, an engraved roller coating head 2), and an outfeed roller conveyor 3). These sections cannot be separated without compromising the straightness of the coated bands.

CONTROLLED COATING

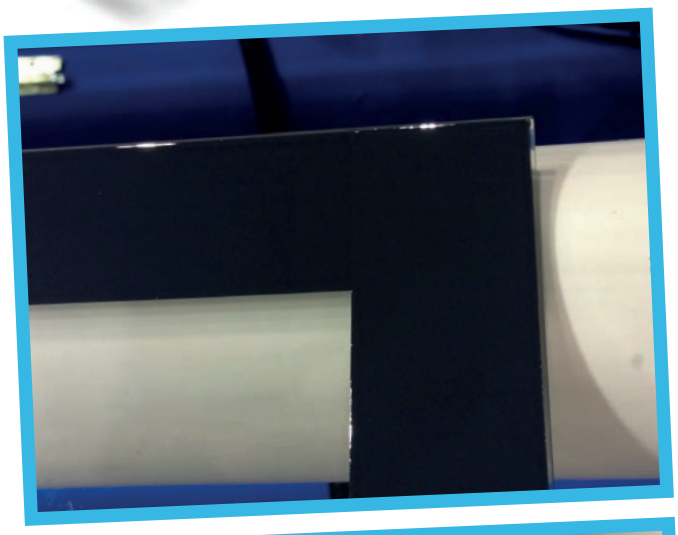
The coating operation is carried out in four stages. Between one stage and the next, the sheet returns and is rotated by 90 degrees. Once the four coating passes have been completed, the sheet is conveyed to the IR oven for drying The engraved-roller coating technique uses 'reverse' rotation to ensure uniform enamel distribution, even when very high coating thicknesses are required.
Glassline can process commercially available flat glass with thicknesses from 2 mm to 19 mm. In a single pass, its coating roller can deposit a uniform and consistent enamel quantity of up to 300 g/m², corresponding to approximately 200 microns in thickness The width of the coated band can be adjusted quickly from the operator panel by electronic control, from a minimum of 5 mm to a maximum of 300 mm. It is also possible to produce a sheet with four bands forming a frame, each with a different width. The coated bands are parallel to one another, without waviness, fading or paint overflow. Specific design and construction features ensure that the leading edge of the sheet, at the point where coating begins, is free from drips, overflow or excessive coating build-up, avoiding the entry 'lip'.





LINE INTEGRATION

Glassline is available in various configurations, with a maximum roller-table height of 3,400 mm. This allows perimeter bands to be coated on sheets ranging from a minimum size of 300x300 mm up to Jumbo-size glass. For rotating large sheets, a retractable roller conveyor mounted on rails 4) can be installed laterally to support the portion of the sheet that would otherwise overhang the main conveyor. The Glassline module, consisting of the lateral roller coater and its associated roller conveyors, can be installed as a stand-alone unit or incorporated into a complete coating line. A multifunctional line can include a horizontal washing machine, a Glassline perimeter coating machine, a Multiglass coating and pattern-printing machine, a crossover roller conveyor, a Glassdrier IR drying oven, and an outfeed roller conveyor. For large, very heavy sheets, or glass that cannot be manually handled, such as low-E glass, the optional ASR system, Automatic Sheet Rotation, is available. Installed in the infeed roller conveyor of the Glassline perimeter coating machine, ASR 5) fully automates the rotation and positioning of float glass sheets. The ASR cycle:





- identifies the centre of the sheet to be coated;
- positions the sheet against the lateral guide rail, or squaring device;
- waits for the sheet to return;
- takes hold of the sheet again and rotates it by 90°;
- repositions the sheet against the lateral guide rail, or squaring device.

Once the four coating passes have been completed, the sheet is conveyed to the oven for drying.

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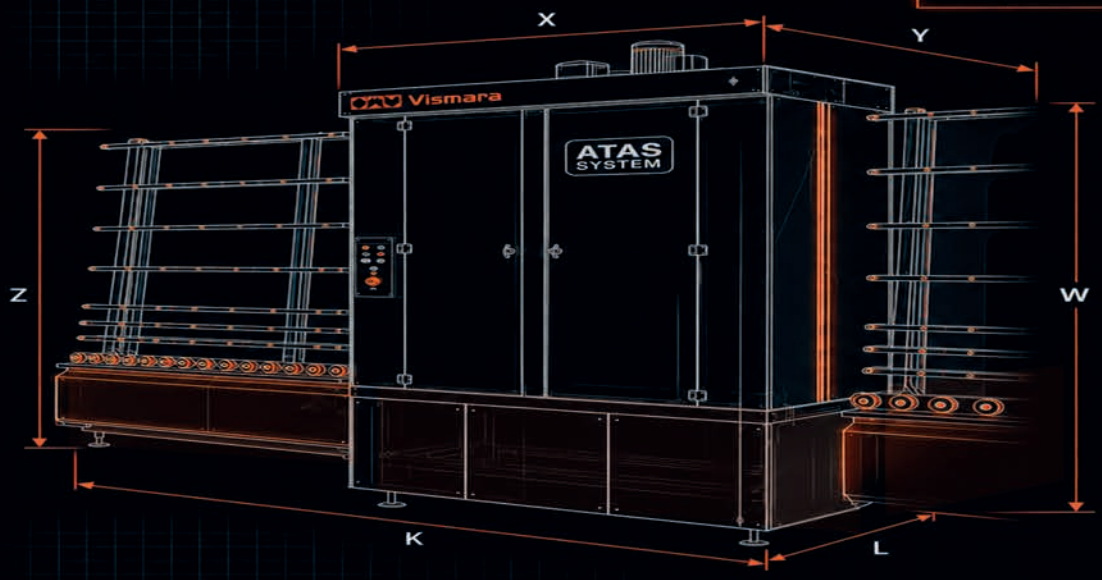
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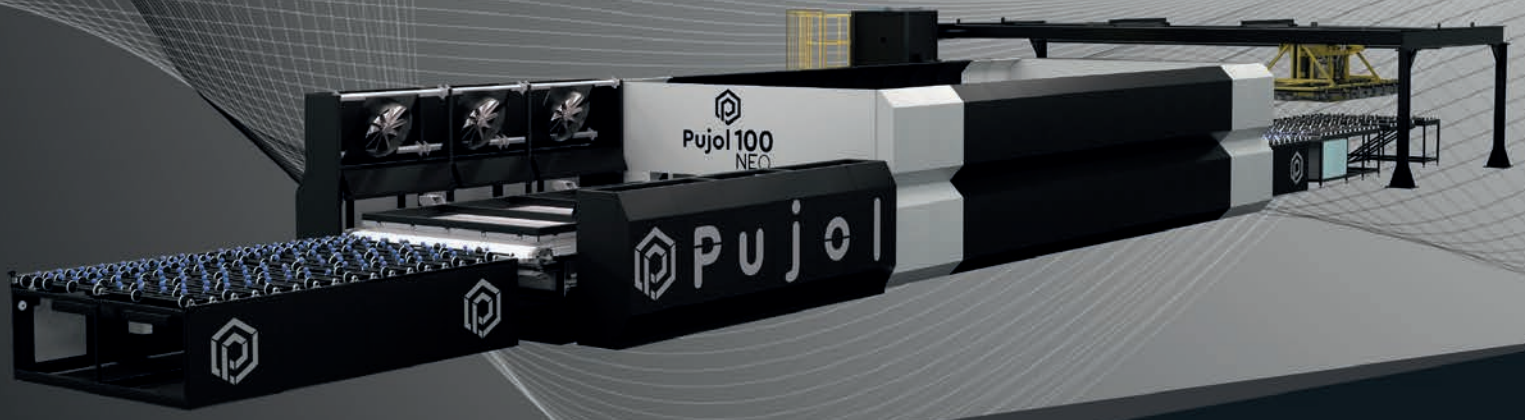
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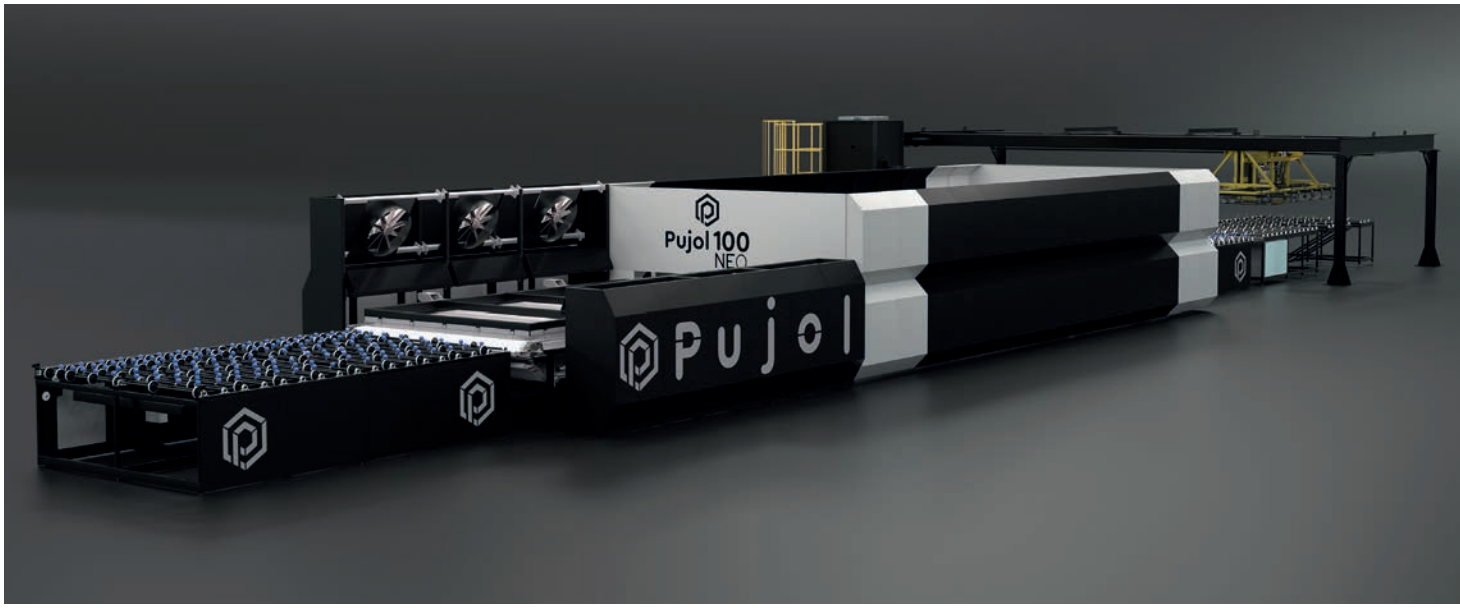
PUJOL reinvents laminated glass production processes

PUJOL REINVENTS LAMINATED GLASS PRODUCTION PROCESSES

At Glasstec 2026, PUJO will be presenting PUJOL 100 NEO and No Clean-No Distortion Technology for the LAM-PRO range - two developments designed to reduce labour requirements, optimise resources, increase production capacity and improve the efficiency of the lamination process.

THE RULES OF THE GAME HAVE CHANGED. AND SO HAS THE WAY LAMINATED GLASS IS PRODUCED

The glass industry is at a turning point. The arrival of new glass types and growing demand for high-value-added solutions are transforming the needs of glass processors. Traditional lamination processes, designed for specific types of glass, specific materials and limited production requirements, no longer respond as effectively to today's demands. Processors now need to handle a wider variety of compositions, thicknesses and formats: high-performance glass, specialised architectural solutions, a broader range of technical interlayers, not just PVB, and emerging technologies such as electrochromic glass. Glass processing is no longer simply about achieving a fixed quality standard for a single product. Productivity and cost control, always closely linked to the industry's competitiveness and energy efficiency, are becoming even more critical as manufacturers need to produce more flexibly, profitably and efficiently. In this new context, production processes must also evolve. Technologies and processes that have defined laminated glass manufacturing for decades must now adapt to a more complex and demanding reality. Against this



PUJOL presents at Glasstec 2026 two technologies that mark a new turning point in glass lamination. The new PUJOL 100 NEO, a fully automated continuous lamination oven, and the evolution of LAM-PRO with No Clean-No Distortion Technology. Two solutions, two approaches and one shared objective: to make laminated glass production more efficient, flexible and ready to embrace new market opportunities.

backdrop, PUJOL presents two disruptive new products at Glasstec 2026 that mark a new turning point for the laminated glass industry. Both introduce a new generation of technologies designed to respond to emerging demands, including new and increasingly diverse advanced materials that open up a broader range of market opportunities for glass processors: PUJOL 100 NEO and the evolution of the LAM-PRO oven. Both represent different approaches to the same challenge: producing laminated glass more efficiently in an increasingly demanding market.

PUJOL 100 NEO: THE END OF THE AUTOCLAVE ERA FOR GLASS PROCESSORS

In a market where energy costs, productivity, skilled labour shortages, margin pressure and new market trends increasingly influence investment decisions, a new lamination line must be evaluated on more than its production capacity. The fundamental questions are: how much investment does it require? How much does it cost to produce with it? And how prepared is it to address the industrial challenges of the future? New PUJOL 100 NEO, a fully automated continuous lamination oven with a double-vacuum system that redefines industry standards. Building on PUJOL's experience with the PUJOL 100 PVB+, introduced in 2011, the new PUJOL 100 NEO has evolved with a clear focus on improving the relationship between CAPEX, or capital expenditures, and OPEX, or operating expenditures, to achieve more efficient lamination with minimal labour and human intervention.

COST STRUCTURE

It is not simply about producing faster. It is about reducing the overall cost of production and making the most of every resource within the installation. From a CAPEX perspective, PUJOL 100 NEO stands out by reducing the infrastructure requirements associated with traditional and restrictive autoclave systems. Its lower installed power, 100-230 kW depending on the model, compared with approximately 800-1,000 kW for an autoclave, and its reduced footprint simplify equipment installation. In addition, eliminating the need for air-conditioning and dehumidification systems, together with their associated costs, further reduces the investment required for the installation. The difference also becomes evident during operation. OPEX becomes one of the key advantages of PUJOL 100 NEO, thanks to energy consumption that is adapted to real production requirements. The installation can adjust its energy needs according to the production level, avoiding unnecessary fixed consumption and maintaining a more efficient cost structure for small and medium-sized production runs as well as large series, something that is virtually impossible with traditional calender and autoclave installations. This efficiency is complemented by a production architecture designed to maximise installed capacity. Its three independent chambers operate simultaneously, allowing different stages of the process to run at the same time, reducing cycle times and significantly increasing effective production capacity. Full process automation further reduces direct labour requirements, from assembly through to oven loading. The automated assembly line minimises manual intervention and creates a continuous, synchronised workflow. Less handling also means fewer unproductive periods, fewer errors and a lower risk of breakage and waste. The result is a direct improvement in efficiency and a reduction in the cost per unit produced. Efficiency also extends to material consumption. PUJOL 100 NEO can optimise the number of interlayer layers required for certain applications, particularly with tempered glass, helping reduce material consumption and direct manufacturing costs. PUJOL 100 NEO can process different interlayers, including EVA, PVB and SGP, across multiple formats and thicknesses. This flexibility allows production capacity to be adapted to different applications and market demands, maximising the return on the investment and expanding market opportunities. All of this creates an installation capable of producing more with a more controlled cost structure. And this is precisely one of the major differences of the new concept: productivity is no longer an isolated objective, but a tool for improving profitability. Moving away

PUJOL 100 NEO

has been designed to optimise both initial investment, CAPEX, by reducing infrastructure requirements and installed power, and operating costs, OPEX, through energy consumption adapted to actual demand and continuous, automated production.

from traditional calender and autoclave technology makes it possible to transition towards a more efficient and sustainable production model, reducing the energy consumption associated with the lamination process and, consequently, its environmental impact. This optimisation helps reduce the carbon footprint of laminated glass manufacturing while maintaining the productivity and quality levels demanded by the industry. Ultimately, PUJOL 100 NEO introduces a new way of understanding investment in lamination: lower infrastructure requirements, lower energy consumption, higher productivity, greater flexibility, less manual handling and a lower carbon footprint. It is a technology designed not only to increase production capacity, but also to improve the overall economics of the process, ensuring that every dollar invested, every kilowatt consumed and every minute of production generates the maximum possible value.

LAM-PRO WITH NO CLEAN - NO DISTORTION TECHNOLOGY: WHEN THE FUTURE OF LAMINATION MEANS DOING MORE -AND BETTER- WITH LESS

There is another way to improve process efficiency: eliminate what does not add value. For decades, certain operations associated with laminated glass production have been considered an unavoidable part of the process: cleaning edges, correcting certain imperfections, managing optical distortion, accepting waste and allocating resources to subsequent operations required to achieve the final quality finish.

PREVENTIVE QUALITY

But technological evolution makes it possible to approach the process from a different perspective: why correct at the end what can be prevented from the beginning? Based on this principle, PUJOL incorporates No Clean-No Distortion Technology into the LAM-PRO range. The technology is designed to reduce or eliminate downstream operations that have traditionally been part of the lamination process. Rather than adding another stage to the process, No Clean-No Distortion Technology works within the lamination cycle itself, optimising the behaviour of the glass-interlayer combination and improving the final result directly as the glass exits the oven.

Eliminate instead of correcting: Its configuration enables stable processing across different glass thicknesses and compositions, maintaining controlled process conditions for both thin-glass configurations and thicker constructions, as well as more complex applications. It acts on the conditions that determine the final lamination result, minimising the occurrence of situations that would otherwise require subsequent cleaning, correction or reconditioning operations. The result is laminated glass with an impeccable finish, clean edges and virtually no optical distortion, significantly reducing the need for downstream intervention. But the true value of this technology goes beyond product quality. Its impact translates directly into business profitability: it optimises resources, significantly reduces costs and creates a clear competitive advantage. Specifically, it enables more production in less time, reduced labour requirements, fewer operations and complications, lower operating costs and greater market competitiveness. Fewer operations. Fewer resources. Lower operating costs. Outstanding optical quality. No Clean-No Distortion Technology turns high-quality laminated glass into a competitive advantage.

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Lam Pro With No Clean–No Distortion Technology. Patented system.

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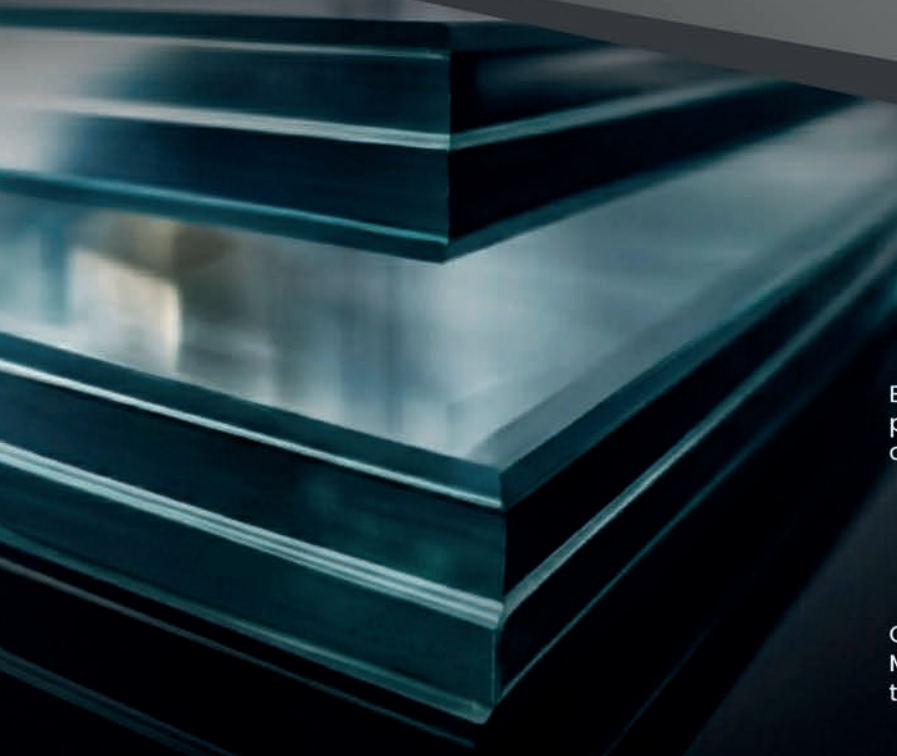
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TECNOCAT to present new solutions for factory and on-site applications

Tecnocat's trade fair calendar will include two further events this autumn: Glasstec in Düsseldorf and VETECO in Madrid



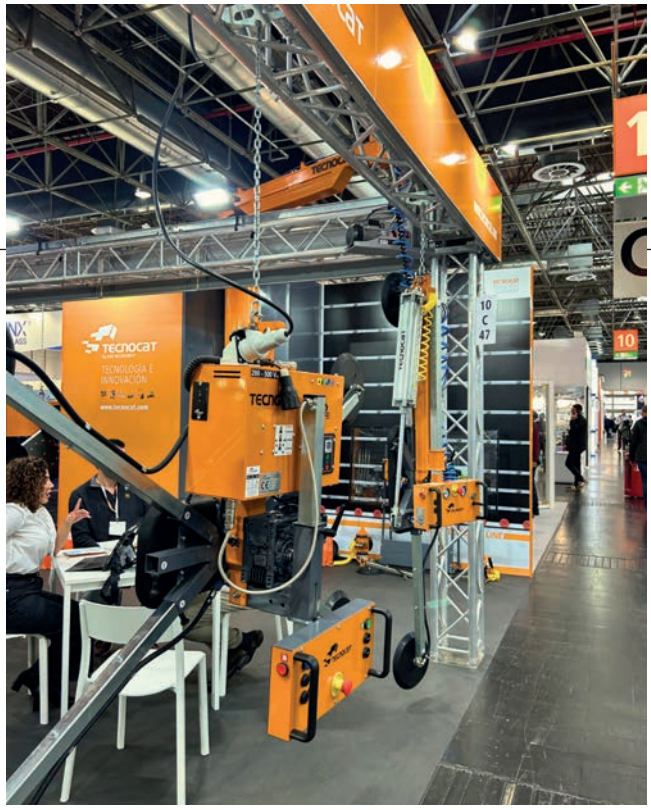
Each event is aimed at different audiences and applications, both will provide an opportunity to discover the machinery the company is currently working on, covering both factory operations and on-site glass handling and installation.

The first event will be Glasstec 2026, taking place from 20 to 23 October. At Stand C48 in Hall 10, Tecnocat will display a selection of factory equipment and present for the first time a new development on which the company has been working over recent years.

The company is reserving the technical details and full operating concept for its presentation in Düsseldorf. For now, it has confirmed that the project is related to the automation of glass handling during the edging process. Its purpose is to reduce manual operations around the edging machine, make better use of its capacity and maintain a steadier production pace. The concept is based on a simple idea: the operator positions the loaded glass rack and does not need to intervene again until the process is complete.

Following its presentation in Düsseldorf, the new development will also be on display at VETECO 2026, taking place from 10 to 13 November. At Stand E10 in Hall 10, the company will place greater emphasis on its solutions for on-site applications. As the exclusive distributor of Skipper Lift in Spain, Tecnocat will present its range of stair-climbing trolleys, together with different trolleys and robots for transporting, handling and installing glass.

At both exhibitions, Tecnocat's sales and technical teams will be available to answer questions, assess specific applications and advise professionals on the most suitable machinery or configuration for their type of glass, working environment and required operations.



A NEW DEVELOPMENT FOCUSED ON PROCESS CONTINUITY

The company will reserve the technical details and full presentation of this new equipment for the exhibition. Tecnocat has confirmed that it is a development related to the automation of glass handling during the edging process.

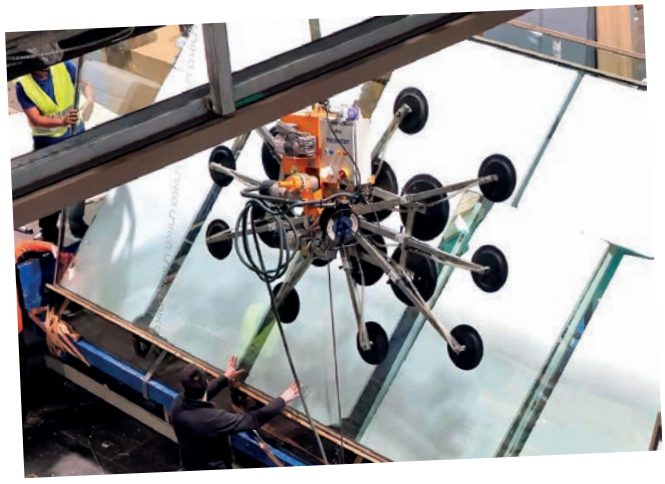
The project addresses a common situation within glass-processing facilities: the performance of an edging machine depends not only on its own capacity, but also on how the glass is managed before, during and after this stage.

In a conventional operation, feeding the machine, handling the glass panels and removing them can require constant operator attention. With this new approach, the operator positions the loaded glass rack at the beginning and does not need to intervene again until the process is complete.

Tecnocat's proposal therefore aims to coordinate the different operations more effectively, reduce repetitive manual tasks and maintain a steadier production pace.

The equipment's technical configuration and full operation will be revealed during its presentation at Glasstec. The new development will subsequently also be on display at VETECO.





EQUIPMENT FOR FACTORY OPERATIONS

Factory machinery will have a prominent presence at the stand. Tecnocat will display different solutions for lifting, moving, rotating, tilting and positioning glass within production facilities.

The selection of this type of equipment depends on factors such as the dimensions and weight of the glass, the available space, frequency of use and the movements required.

Tecnocat's technical team will therefore be available during the exhibition to assess specific applications and advise visitors on the most suitable configurations for each case.

The display will show how each machine can be incorporated into the regular operation of a production facility, taking into account both the task it must perform and the environment in which it will operate.

MACHINERY FOR ON-SITE HANDLING AND INSTALLATION

The stand will also feature equipment for transporting and installing glass on site. Tecnocat will present solutions designed to facilitate the movement and positioning of glass panels, particularly in projects where access to the installation point affects how the operation must be carried out.

Having machinery for both environments on display will give visitors an overview of the different solutions available, from handling inside the factory to final installation.

In addition to the demonstrations, visitors will be able to discuss projects, raise technical questions and assess directly with the Tecnocat team which type of machine best suits their working methods.

TECNOCAT
GLASS MOVEMENT

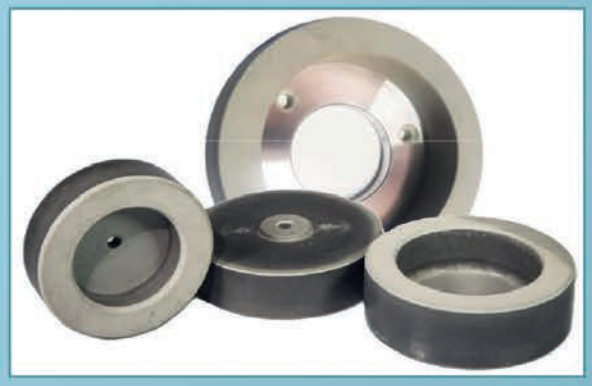
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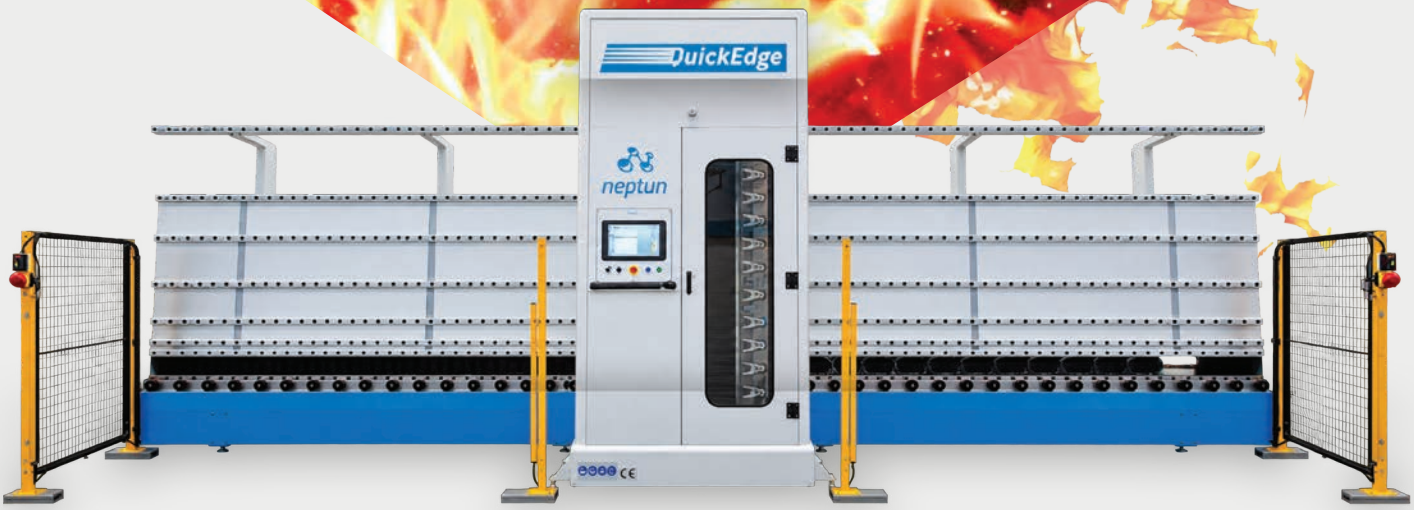


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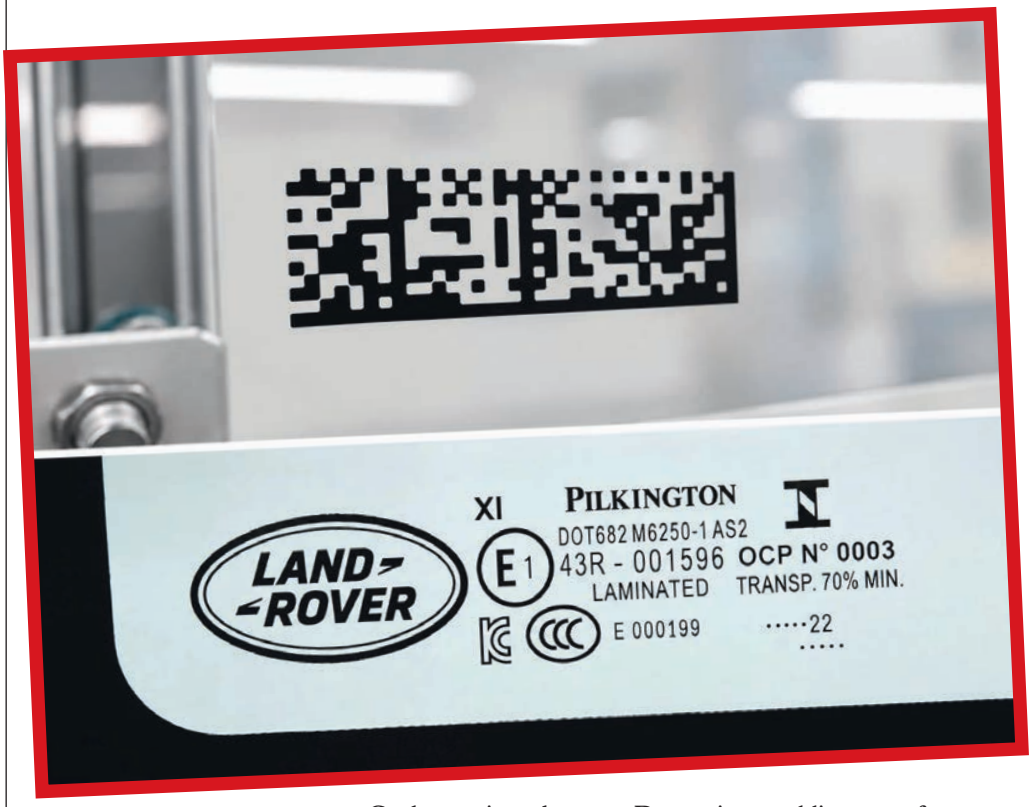
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Variable data printing makes strides with CUGHER D-CODE



D-CODE: VARIABLE DATA FOR EVERY PRINT

The growing demand for product identification, traceability and customisation is creating new requirements in industrial glass production. To address these needs, Cugher introduces D-CODE, a new digital printing solution developed for the application of logos, QR Codes, DataMatrix codes, text and variable data directly onto glass. D-CODE combines the flexibility of digital inkjet printing with the performance and reliability required for industrial production, enabling manufacturers to manage changing information directly within the production process without compromising productivity. The new solution represents a further evolution of Cugher's long-standing experience in glass printing and automation. Specialised in the engineering and manufacturing of printing machines and complete automated lines, Cugher has developed its technologies around process flexibility, system integration and the specific production requirements of glass manufacturers worldwide.

DIGITAL PRINTING FOR A NEW LEVEL OF FLEXIBILITY

D-CODE integrates digital inkjet printheads directly into the glass production process, bringing the benefits of digital printing to an industrial environment where speed, repeatability and process continuity are essential. The system is based on a single-pass configuration, capable of supporting line speeds of up to 30 m/min, with a print resolution of up to 600 DPI and a maximum print width of 65 mm. This combination makes it possible to reproduce logos, text, QR Codes, DataMatrix codes and other machine-readable information with the precision required for identification and traceability applications. The

Variable-data marking becomes an industrial glass process with CUGHER D-CODE, which combines single-pass digital inkjet printing, real-time content changes, flexible line integration and ink management. To this we add automatic printhead cleaning as well as camera-based quality control for logos, QR Codes, DataMatrix codes, text and traceability information directly on glass surfaces.

main advantage of digital printhead technology is the ability to manage printed content dynamically. Variable data can be generated and modified in real time, allowing the information printed on one glass lite to differ from the next without requiring setup time for graphic changes. This gives manufacturers greater freedom to manage different product references, production batches and identification requirements within the same process, while supporting increasingly customised and traceable production.



FLEXIBLE CONFIGURATION FOR DIFFERENT PRODUCTION NEEDS

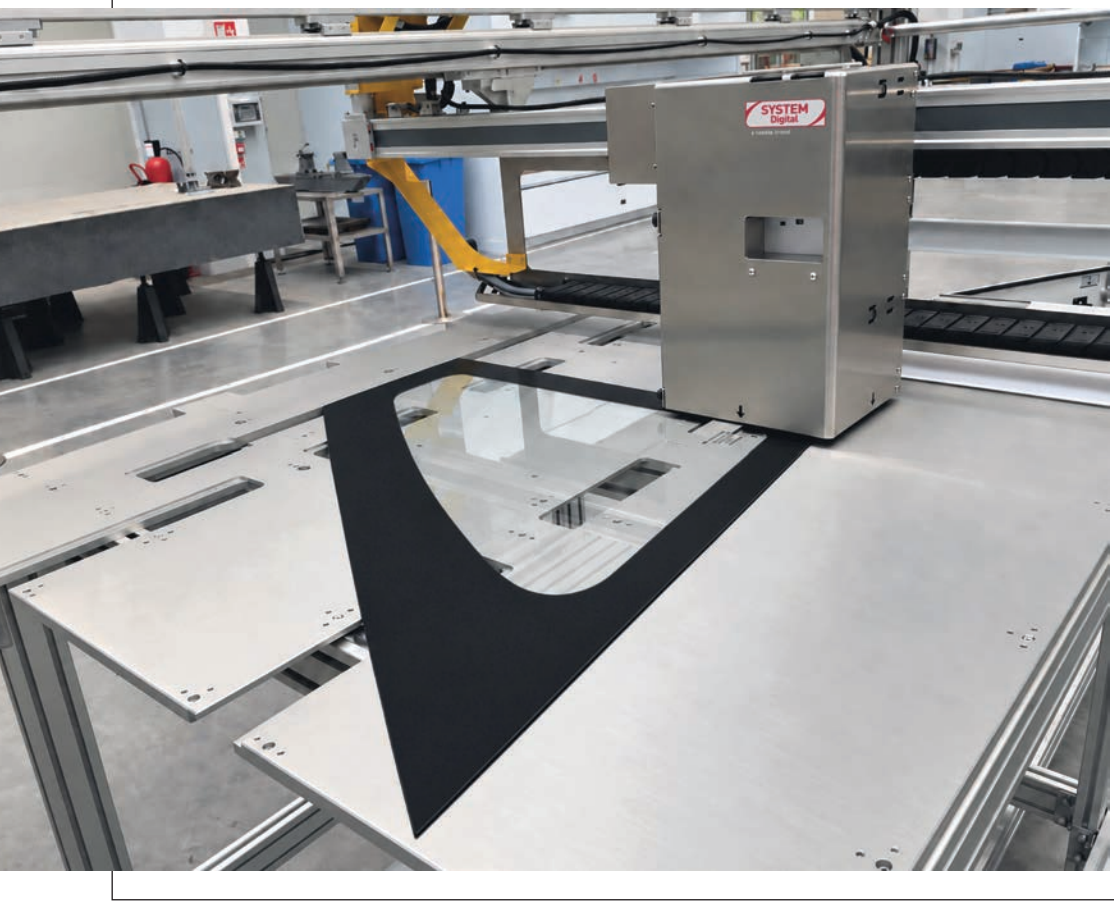
D-CODE is a flexible platform developed by Cugher to integrate digital printing into a complete industrial solution. Its configuration can vary significantly depending on the specific application and the customer's production requirements. Designed to adapt to different production needs and plant layouts, D-CODE can operate as a stand-alone digital printing station or be integrated into existing Cugher screen-printing lines. This allows manufacturers to introduce variable data digital printing while making use of their current equipment and adapting the solution to their specific production setup. The platform is also designed to accommodate other variable data marking technologies, such as a screen-printing logo head or laser marking systems, offering a flexible approach to different industrial printing and identification requirements. The printheads are mounted on a dedicated X-Y motion system, enabling precise positioning according to the required printing area and supporting flexible integration within different line configurations. This architecture makes it possible to add digital printing capabili-

ties without redesigning the entire production process, while maintaining an efficient and compact machine layout.



MORE THAN PRINTING: ENSURING PROCESS EFFICIENCY

D-CODE introduces the flexibility of digital printing into glass production while ensuring that the entire printing process remains stable, controlled and easy to manage in an industrial environment. The system includes several functions designed to improve process reliability and reduce the need for manual intervention. An optimised ink management system helps maintain the correct operating conditions during production, supporting print consistency and more efficient use of the printing system. At the same time, automatic printhead cleaning contributes to keeping the printheads in suitable working condition and helps simplify routine operation, particularly in production environments where continuity and repeatability are essential. D-CODE can also be equipped with an immediate print quality control system based on a dedicated camera and monitor. This allows operators to verify the printed result directly during the production process and quickly identify possible defects or inconsistencies. These functions complete the digital printing concept by going beyond the simple application of variable data. Together, they contribute to a more controlled and efficient production process, supporting consistent results and making D-CODE a complete solution for industrial variable-data printing on glass.



EXPERIENCING D-CODE AT GLASSTEC 2026

D-CODE will be presented at Glasstec 2026 in Düsseldorf, offering visitors the opportunity to see the new data printing solution and explore its technical features, integration possibilities and potential applications for variable-data printing on glass. The Cugher team will be at Hall 16, Stand A20.

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Past HELIOS QUARTZ breakthroughs illuminate its technical blueprint

Reflecting upon the rediscovery of an early ultraviolet and infrared electro-medical device, HELIOS QUARTZ links its historical use in actinic therapy with principles still evident in modern phototherapy - all while tracing more than 85 years of lamp manufacturing, technological development, research, expertise and continuing innovation.

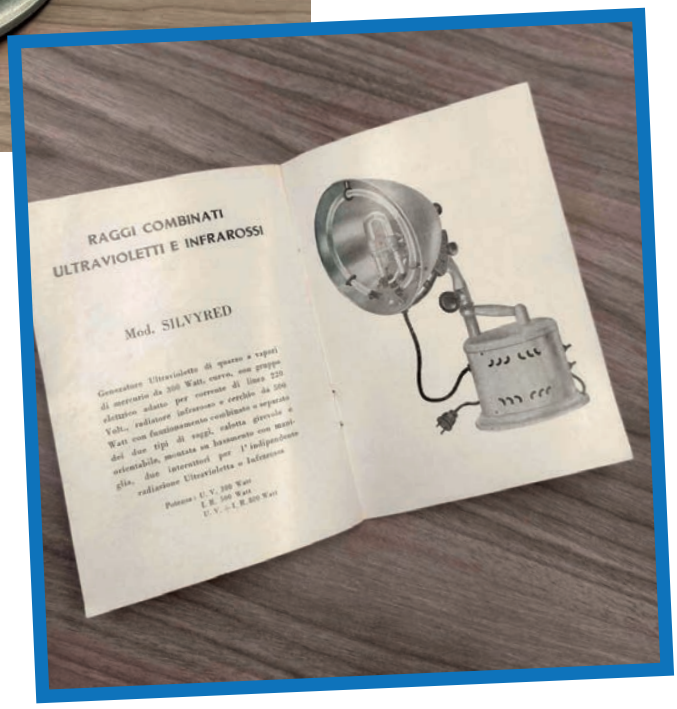
Sometimes yesterday's advancements resurface in unexpected places. That's exactly what happened when the grandson of a Helios Quartz customer discovered an old device whilst carrying out work at the company. Uncertain of its purpose but intrigued by the Helios Quartz logo on the lamp, he asked around and did some personal research to have it restored and to uncover its history. The object proved to be a mercury vapour quartz ultraviolet generator equipped with an infrared radiator. Its design allowed ultraviolet and infrared emissions to be used either separately or together. Powered by a 220-volt supply and mounted on an adjustable stand, the device represents the electro-medical technology developed during the first half of the twentieth century. At the time, equipment of this kind was used for actinic therapy, a treatment widely practised











before the arrival of modern pharmaceutical medicine. Ultraviolet radiation was used primarily for the treatment and prevention of rickets, while also being applied to promote general wellbeing, support children's growth and assist recovery in certain forms of anaemia.

EARLY THERAPEUTIC APPLICATIONS

Helios Quartz manuals from the period contained detailed instructions for operating the equipment. They recommended treatment sessions lasting only a few minutes, conducted at a controlled distance and with exposure times that increased gradually. According to the scientific understanding of the period, exposure to ultraviolet radiation stimulated vitamin D production, supported proper bone mineralisation and helped reduce the risk of conditions associated with deficiency. This was considered particularly important during winter, when exposure to natural sunlight was limited. Many of the principles described in those early manuals remain reflected in modern applications of phototherapy and heliotherapy. The rediscovered device is therefore more than a historical artefact. It also represents a therapeutic principle that continues to retain relevance.

RECONNECTING WITH INDUSTRIAL ORIGINS

For Helios Quartz, the discovery carries an additional significance. The company has manufactured ultraviolet lamps and developed technological solutions for a wide range of applications for more than 85 years. Recovering a device bearing the Helios Quartz name provided an opportunity to reconnect with the company's origins and to consider the development of innovation that has shaped its history. The equipment embodies the passion, research and expertise that have guided its activities across generations. Looking back at this history highlights both the distance travelled and the evolution of the underlying technology. It also provides a basis for considering the future with the same commitment to innovation that has characterised the company over the course of its eight-decade-plus trajectory.

helios quartz

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TUROMAS highlights coordinated glass processing

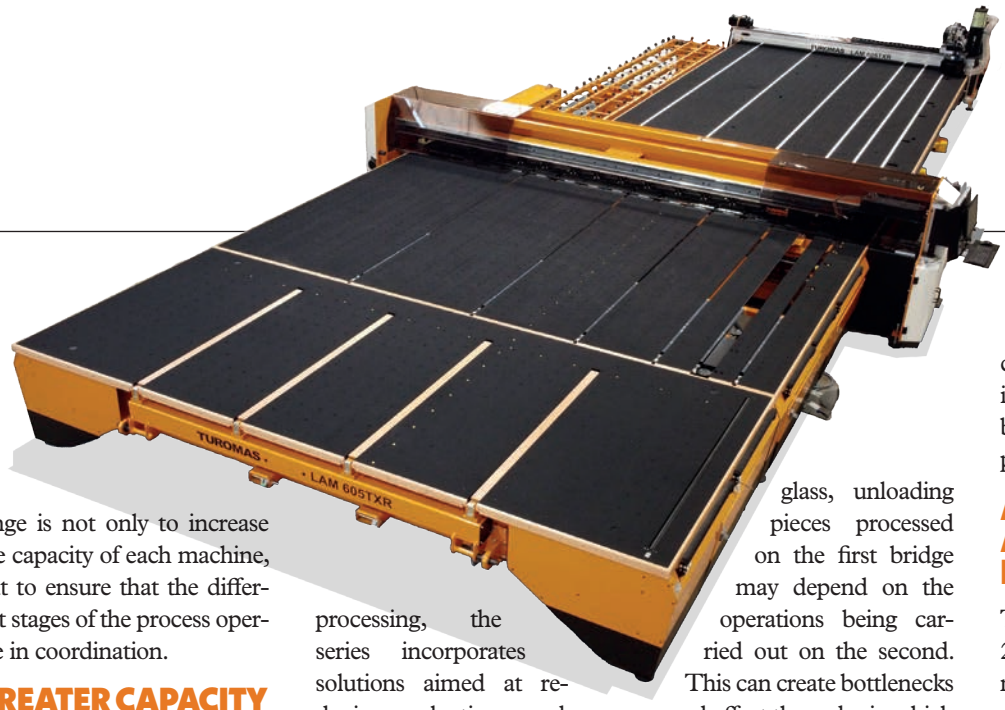
TUROMAS will be presenting connected solutions for flat glass storage at glasstec 2026. These include loading, cutting and unloading, with an emphasis upon laminated glass integration, LAM 600 automation, dual-bridge unloading, software, traceability, customised projects and coordinated production flow for more efficient glass plants.

Turomas will be at glasstec 2026 with a new generation of connected solutions for the storage, loading, cutting and unloading of flat glass. At the international glass industry trade fair, taking place from 20 to 23 October in Düsseldorf, the Spanish company will focus on the connection between different stages of the production process, presenting systems designed to support more efficient, flexible lines for changing production requirements. From its 700 m² stand in Hall 15, A13-A23, Turomas will showcase its latest solutions for smart storage, automatic loading, monolithic and laminated glass cutting, software and automation. The presentation will also include new solutions developed to optimise production flow, with the wider aim of showing how automation and process integration can increase production capacity and improve workflow in glass plants.



FROM STORAGE TO CUTTING: CONNECTED PROCESSES

One of the central themes of Turomas' presence at glasstec 2026 will be the integration of storage, loading, cutting and unloading processes for laminated glass. In this approach, smart and automated storage is no longer treated as an independent element, but as an active part of production. Coordination between the storage system and the line enables more efficient management of glass feeding and return, reduces waiting times and helps maintain a continuous workflow. This responds to a need increasingly seen in processing plants: the chal-



lenge is not only to increase the capacity of each machine, but to ensure that the different stages of the process operate in coordination.

GREATER CAPACITY FOR LAMINATED GLASS CUTTING

The growing demand for laminated glass is leading many companies to reassess their production capacity. Turomas will address this with configurations that allow lines to be adapted to the needs of each plant. Among these are mixed lines capable of processing monolithic and laminated glass within the same automated environment. This configuration provides greater flexibility, enables urgent orders to be handled and supports different production runs, while also increasing the plant's operational capacity. The company will also present configurations with two laminated glass cutting bridges. These are designed to increase production capacity when workloads require higher throughput, supporting plants that need to manage larger volumes of laminated glass cutting.

NEW LAM 600 GENERATION

The new LAM 600 series will be one of the main features of the exhibition. Developed for increasing production demands in laminated glass processing, the series incorporates solutions aimed at reducing cycle times and automating the different stages of the process. One key feature is a patented system that integrates the heating lamp directly into the breaking and separation unit. This configuration enables heating, breaking and separation to be carried out in a single operation, reducing the cutting cycle by up to 10 seconds compared with conventional solutions. The LAM 600 also automates loading, positioning, cutting, rotation and unloading of glass sheets. This minimises waiting times between processes and enables more continuous production. The series also incorporates automatic rotation systems, narrow-strip management, Low-E glass edge deletion and options for traceability and integration with plant management systems.

A NEW UNLOADING SOLUTION FOR DUAL-BRIDGE LINES

Cutting capacity does not depend only on bridge speed. Once the glass has been cut, the management of pieces can become decisive in maintaining production pace. In conventional dual-bridge configurations for laminated glass, unloading pieces processed on the first bridge may depend on the operations being carried out on the second. This can create bottlenecks and affect the order in which pieces are unloaded. To address this, Turomas will present a new solution integrated into the line that optimises piece unloading and maintains a more efficient production flow. The technology has been developed so that unloading is no longer a limiting point within the line, but instead becomes part of coordinated process management.

TECHNOLOGY, SOFTWARE AND INTEGRATION

The automation of the equipment is complemented by Turomas' in-house software development. The company integrates digital technologies to provide real-time process information, improve traceability and connect the different stages of production. The LAM 600 series incorporates a viewer that allows users to check the status of each optimisation, display pieces in real time and identify the current action, the piece sequence, the optimisation in progress and the next optimisation to be executed. The objective is to move towards installations in which machinery, software and data work together to optimise production. In this context, integration is not limited to individual machines, but extends across the wider production flow.

A SOLUTION ADAPTED TO EACH PLANT

Turomas' proposal at glasstec 2026 is based on the fact that not all plants produce in the same way or have the same needs. For this reason, the company combines standard solutions with customised projects, adapting dimensions, capacities, automation and software to the characteristics of each installation. This customisation capability is part of Turomas's value proposition. The company's approach is not limited to manufacturing machines, but extends to building tailored solutions and long-term relationships. With this proposal, Turomas approaches glasstec 2026 as a meeting point for customers, its sales network and industry professionals. The company will present its latest developments, gain first-hand insight into the changing needs of glass processors and show solutions aimed at improving productivity, flexibility and efficiency in flat glass processing.

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Precision partnership with DK HOLDINGS and KAROPAK A.Ş. team-up

Ahead of glasstec 2026, DK HOLDINGS and KAROPAK A.Ş. discuss technical collaboration, Flexible Diamond Belts, Electroflex Diamond Belts, Turkish market requirements, ceramics-to-glass expertise, application-led tooling development, production efficiency, finishing consistency and how regional feedback supports diamond tooling for glass processors worldwide.

As the international glass industry prepares to meet at glasstec 2026 from 20 to 23 October, DK Holdings Limited and Karopak A.Ş. are looking closely at the role of technical collaboration in modern glass processing. For DK Holdings, whose precision diamond tooling has supported the global glass industry for more than six decades, partnerships with companies such as Karopak are central to understanding how market requirements differ across regions, machines, materials and production environments. For Karopak, whose foundation lies in surface and edge-finishing consumables for the ceramics industry, the move into glass processing has been a natural extension of long-standing technical expertise. Together, the two companies are helping processors address the demands of grinding, seaming, finishing and polishing applications, with particular focus on DK Holdings' Flexible Diamond range, including Electroflex Diamond Belts. In this joint interview, Andrew Gentle, Managing Director of DK Holdings Limited, and Suha Havlioğlu, Managing Director of Karopak A.Ş., discuss technical partnerships, application-led tooling development and the





way evolving requirements in the glass sector are shaping processing, finishing and production efficiency.

Q: Andrew, why are technical partnerships with companies such as Karopak so important when developing diamond tooling solutions for specific regional markets?
Andrew Gentle: Glass processing is highly application specific. A tool that performs well on one machine, with one coolant system, one feed rate and one production target, may need to be adapted for another customer working in a different environment. That is why regional partners are so important. Karopak brings direct knowledge of the Turkish market, the machinery being used, the production pressures customers face and the type of technical support processors need day to day. DK Holdings brings the diamond tooling design, manufacturing and application expertise. When those two areas of knowledge come together, we can move beyond simply supplying a product. We can look at the full processing requirement and recommend tooling that is right for the machine, material and required finish.



Q: Suha, how has Karopak's ceramics experience helped you understand glass processing demands?
Suha Havlioğlu: Karopak's foundation is in surface and edge-finishing consumables for ceramics, including diamond tooling for cutting, squaring and polishing tiles, slabs and porcelains, as well as abrasive systems and polishing media. The physics of removing material from a hard, brittle, glassy-phase substrate without inducing microcracks or chipping is the same underlying challenge, whether you are profiling a porcelain slab edge or seaming the edge of a glass pane. The main difference in glass is the tolerance for visible defects. Glass is transparent, so any micro-chip or haze on the edge is immediately visible in a way that a ceramic glaze can sometimes mask. That makes finishing consistency especially important.

Q: Returning to you, Andrew, what technical factors does DK consider when tailoring a product to a customer's machine, material, feed rate and finish requirements?
AG: The first step is understanding the application properly. Our technical team then considers the machine type, belt size, contact pressure, coolant behaviour, production speed, stock removal requirement and desired edge finish. Our Flexible Diamond range is particularly important here. DK's flexible material was developed to combine the long life and cutting action of diamond with a backing material that offers both strength and flexibility. This allows the tool to conform more effectively to the working area while maintaining controlled abrasive performance. Electroflex Diamond Belts are available in a range of grades, from coarse metal grades for stock removal through to fine resin grades for polishing and final finishing. This allows customers to build a sequence that matches their process, rather than using a one-size-fits-all approach.

Q: And now back to you, Suha, what are the main technical challenges Turkish glass processors are currently facing?
SH: A few themes come up repeatedly with customers. First, energy cost pressure is affecting the whole sector, so processors are very focused on yield. They want to minimise rework, reduce break-



age during cutting and edge work, and avoid anything that leads to remelting or reprocessing material.
Second, there is a skills gap on the processing side. Turkey has strong glass production, but downstream processing, including precision cutting, edge seaming and polishing for architectural and appliance-grade glass, still requires operator development and machine setups that are maturing in many smaller and mid-sized workshops.
Third, processors increasingly want flexible tooling that can handle multiple substrate types on the same line, as product mix continues to diversify. This is also where tooling format becomes important. A flexible belt can follow slight variations in the glass edge more effectively than a rigid disc, helping processors achieve a more consistent finish and reduce the risk of visible edge defects.

Q: Andrew, how is DK Holdings continuing to develop its bespoke diamond tooling range for glass processors?
AG: Our approach has always been application-led. DK Holdings was one of the early developers of Flexible Diamond Belts for the glass manufacturing market, and the product range has continued to evolve through in-house development, extensive testing and feedback from live production environments. What sets DK apart is the combination of manufacturing capability, technical support and flexibility. We manufacture precision diamond tooling in the UK and work closely with customers and partners to adapt the tool construction, grit, bond, backing and format to suit the application. For glass processors, that support extends across a wide range of requirements, from Flexible Diamond Belts and hand pads to tooling used for cutting, drilling, grinding, seaming, arrissing and specialist finishing applications. At glasstec 2026, DK Holdings will be exhibiting in Hall 11, Stand B24, where we will showcase our Flexible Diamond range alongside our wider diamond tooling portfolio used by glass processors across the spectrum worldwide.



Q: Suha, where do you see the Turkish and regional glass industry heading, and where can a Karopak-DK Holdings partnership add the most value?
SH: The structural story is growth. Turkey's glass manufacturing sector is expanding, and the country is geographically positioned to serve Europe, the Gulf and North Africa from a competitive cost base. The larger domestic players are investing in capacity, and that pulls the wider supply chain, including downstream processors, along with them. The highest-value partnership sits at the intersection of specialist manufacturing knowledge and on-the-ground market expertise. DK Holdings brings decades of diamond tooling engineering, including knowledge of bond systems, machine compatibility and abrasive performance. Karopak brings daily contact with processors on the shop floor. We understand which grit progression survives a specific machine and water quality, what failure modes customers are seeing, and what price point makes sense in this market. The value is not just distribution. It is a feedback loop: real field data flowing back to the manufacturer to refine the product line, and manufacturing-grade engineering flowing out to solve specific customer problems faster than either side could alone. As glass and ceramics processing continue to converge in their finishing requirements, that loop becomes even more valuable across both sectors.

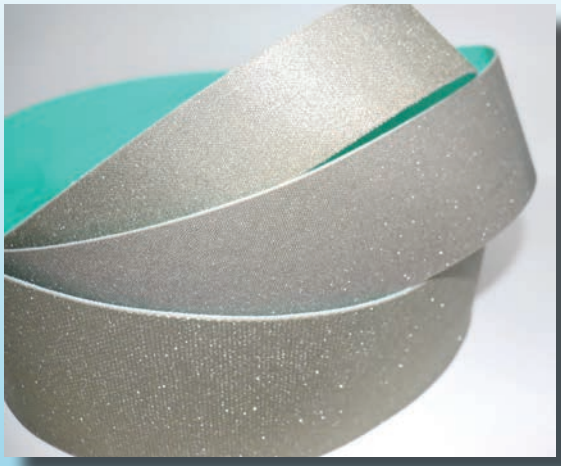
Q: Finally, can we close with a heads up from you for our glasstec 2026 attendees?
AG: Visitors will be able to visit DK Holdings Limited in Hall 11, Stand B24, where our team will be on hand to discuss Flexible Diamond Belt applications, edge finishing challenges, grit progression and wider diamond tooling requirements for glass processors. See you there!

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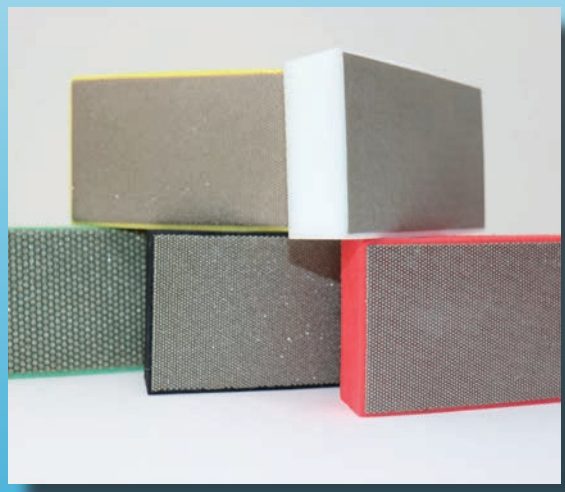
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Windshields: AGC and REILING GLAS RECYCLING close loop



AGC and Reiling Glas Recycling have reached a major milestone in flat glass circularity with the successful industrial-scale recycling of pre-consumer automotive windshields in a closed flat-to-flat loop. The development, achieved by AGC Glass Europe in collaboration with its long-standing partner Reiling Glas Recycling, marks a significant step toward a fully circular value chain for automotive glass. Indeed AGC now supports its automotive production with an over 56 percent cullet ratio.

EXPANDING CIRCULARITY INTO THE AUTOMOTIVE SECTOR

For many years, leading automotive glass producer AGC Glass Europe has been supported by Reiling Glas Recycling in the recycling of pre- and post-consumer flat glass in the architectural sector. Building on that proven expertise, the collaboration has now been expanded into the automotive industry. Under the current model, Reiling receives pre-consumer automotive windshields from AGC's collection system, recycles them at its specialised facilities in Germany, and returns the resulting high-quality cullet to AGC. The cullet is then reintroduced into automotive glass manufacturing, enabling a closed, industrial flat-to-flat loop for producing new automotive glass. At the same time, the partners say this proven approach opens the door to addressing much larger waste streams from aftermarket activities and end-of-life vehicles, which generate substantial volumes across Europe.

TECHNOLOGICAL ADVANCEMENT IN WINDSHIELD PROCESSING

Recycling laminated automotive glass for reuse in automotive glass production has long been a complex challenge. Through state-of-the-art processing techniques and efficient separation of contaminants -including PVB interlayers, plastic coatings, metal wiring, and electronic components- the range of applications has now been expanded to include another high-quality use. The resulting high-quality cullet meets the demanding specifications required for automotive float glass production. In collaboration with AGC's R&D department, a robust protocol has also been developed

Industrial-scale windshield recycling now sees AGC and REILING GLAS RECYCLING close a flat glass-to-flat glass loop for pre-consumer automotive windshields, returning high-quality cullet to production, raising cullet use - all while cutting CO_2 and virgin raw materials and preparing expansion into post-consumer streams across Europe.

for the treatment and use of recycled windshields in the float furnace. Windshields produced using this recycled material offer the same quality, safety, and performance as those made from virgin raw materials.

"Our collaboration with Reiling has led to a significant achievement: turning assembled windshield waste back into new windshields on an industrial scale. This is a testament to our common ability to innovate and transform end-of-life into a high-value resource for our car glass production. We are steadily increasing the use of this recycled material and learning how to optimise the process further. The path to making this process economically competitive with traditional materials is a challenge we are actively addressing, but this success story is a clear signal that the future of glass, also post-consumer windshields are circular." - Marc Foguenne VP Sustainability AGC Glass Europe.

JOINT INNOVATION FOR HIGH-VALUE RECYCLING AND MEASURABLE ENVIRONMENTAL BENEFITS

Marc Uphoff, Managing Director of Reiling Glas Recycling, states: "The use of recycled glass cullet from pre-consumer windscreens is an excellent addition to the range of high-quality applications for this material stream. Reusing cullet in automotive glass production is a challenging task, as the quality requirements for the cullet in this melting process are extremely high. Together with our long-standing partner AGC, we have now successfully realised this goal and can jointly make a significant contribution to resource conservation and environmental protection."

The environmental benefits are measurable. For every ton of cullet used, up to 0.7 tons of CO_2 can be saved, while 1.2 tons of virgin raw materials can be reduced. Reiling ensures high-quality processing and responsible recycling of all material components, including glass, plastics, and metals. Through the collaboration, substantial volumes of production waste have already been successfully reintegrated into the glass production cycle. As of 2026, AGC has set an ambitious goal to add to this the collection and treatment of more than 300,000 pre-consumer windshields, creating a new circularity standard for the industry.

LOOKING AHEAD: SCALING CIRCULAR SOLUTIONS

Building on this success, Reiling and AGC aim to further expand collection and treatment capacities. The next step is to systematically integrate post-consumer windshields into the recycling loop, setting a new benchmark for circularity in the European automotive glass industry.

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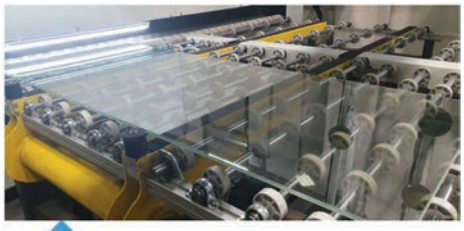
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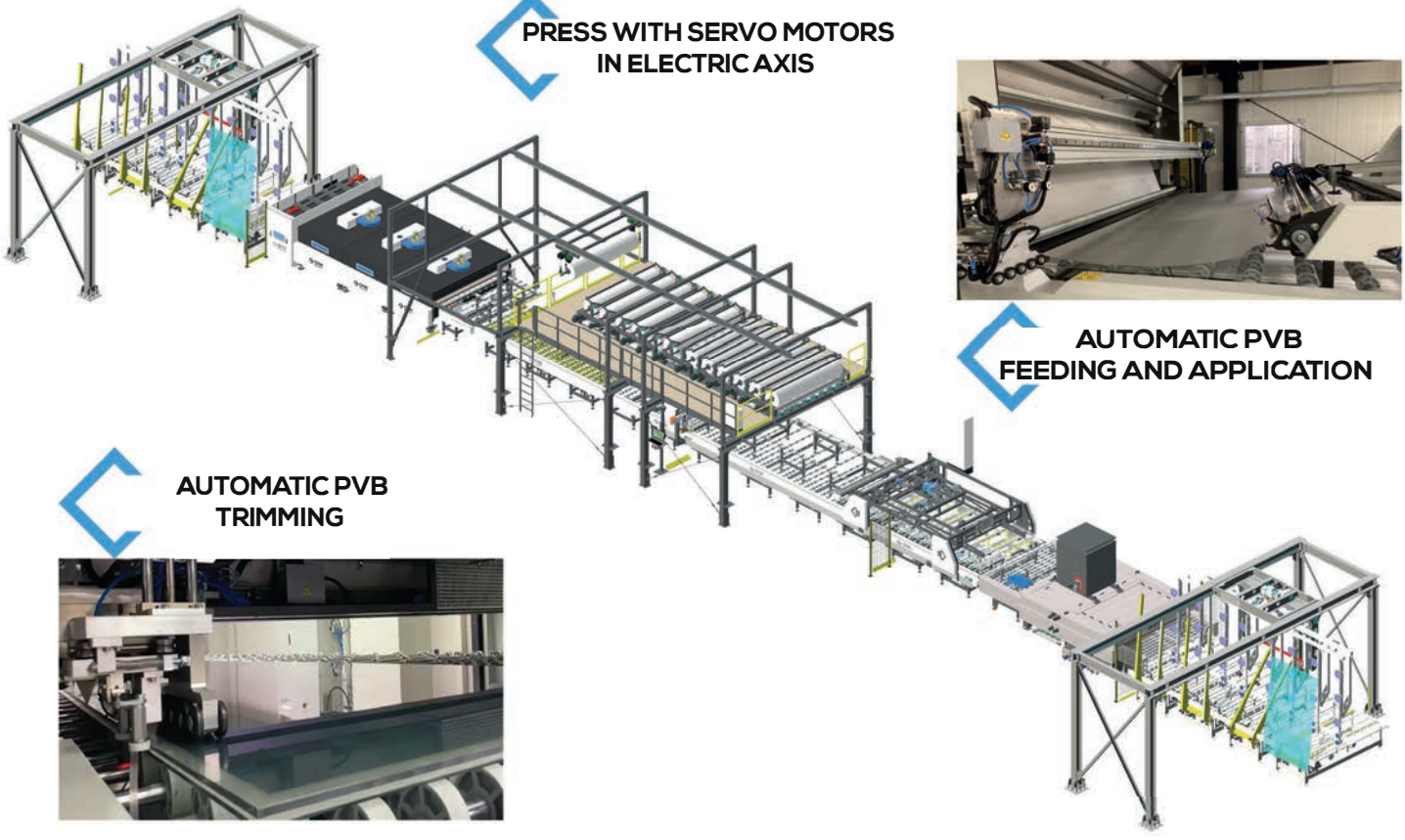
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AUTOMATIC PVB TRIMMING

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LPA 2860	2800 x 6000 mm	STRAIGHT, U, Z
LPA 3360	3300 x 6000 mm	STRAIGHT, U, Z
LPA 3390	3300 x 9000 mm	STRAIGHT, U, Z
LPA 33120	3300 x 12000 mm	STRAIGHT, U, Z

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VITROSEP: Stopping the silent killers



When it comes to glass processing, VITROSEP offers chemical-conscious filtration for clean process water, dry manageable waste, machinery protection and stable finishing quality. The system avoids aggressive inorganic salts and systematic biocide dosing - addressing corrosion, clogging, maintenance, operator safety and product consistency in industrial water circuits.

STOPPING THE SILENT KILLERS

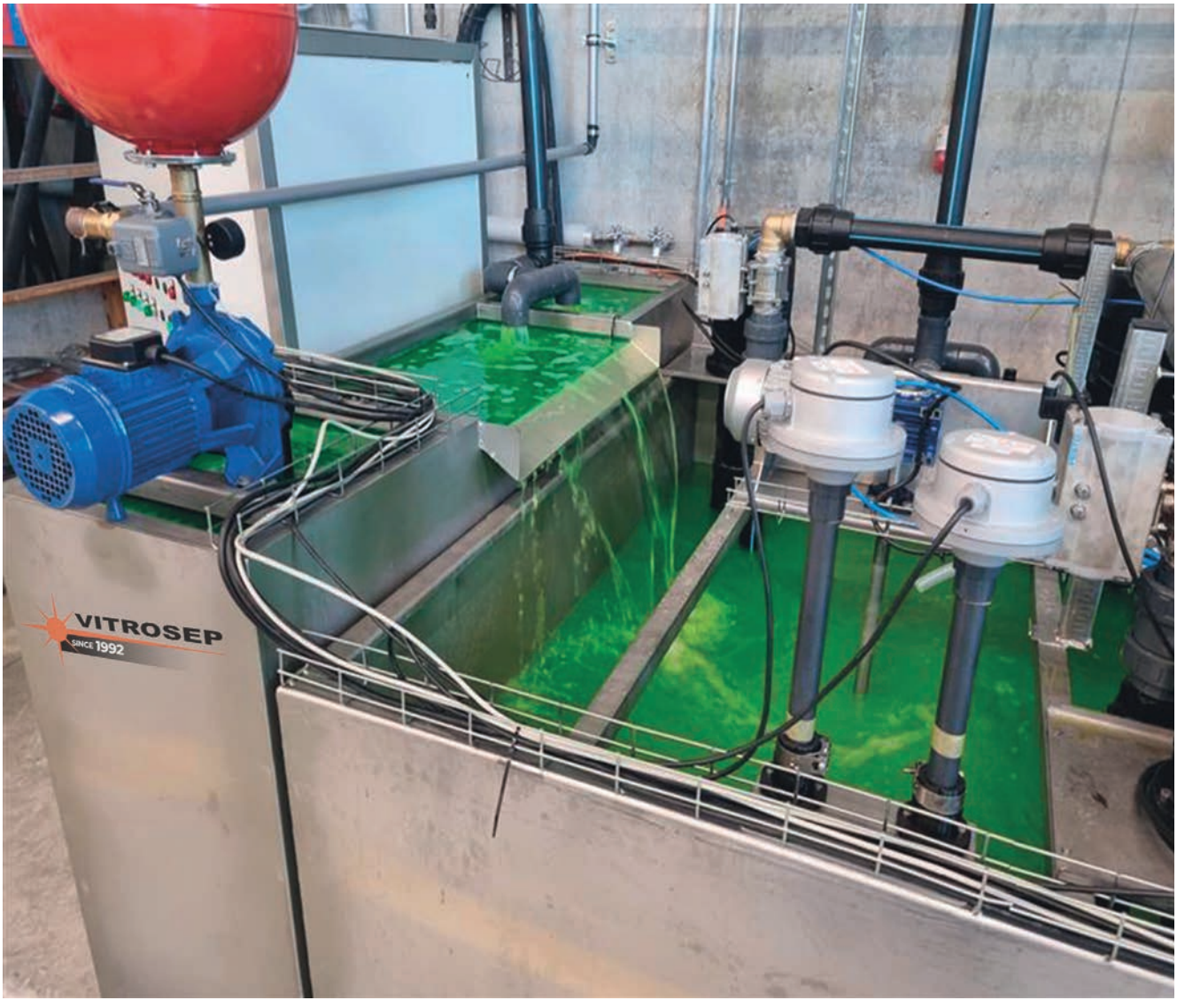
In glass processing, water quality is closely linked to product quality, machinery reliability and production efficiency. Yet many conventional water-treatment systems introduce chemicals that may solve an immediate problem while creating others inside the production circuit. Aggressive flocculants and indiscriminately used biocides can initially appear to keep water clean and production lines under control. Over time,



however, they may contribute to corrosion, blocked pipes, damaged equipment, finishing defects and increasingly resistant microorganisms. These are the silent killers hidden inside many industrial water circuits.

INORGANIC FLOCCULANTS: AN INVISIBLE THREAT TO MACHINERY

Many conventional treatment systems rely on flocculants or coagulants based on inorganic salts. These chemicals destabilise suspended glass particles, allowing them to form larger aggregates that can be separated more easily. Their continuous introduction into a closed or partially closed water circuit, however, can progressively change the chemical composition of the process water. Inorganic ions, particularly chlorides and sulphates, increase water conductivity and can accelerate electrochemical corrosion. Pumps, valves, metallic pipes, machine components, heat exchangers and internal spindle circuits may all be affected. Corrosion rarely appears overnight. It develops gradually, reducing component service life and increasing maintenance requirements. Small leaks, damaged seals, corroded pump parts and un-





expected equipment failures are often treated as isolated mechanical problems, while the chemistry of the process water remains the underlying cause. Inorganic flocculants can also generate sticky sludge and mineral deposits. When these residues combine with fine glass particles, they may adhere to the internal surfaces of pipes and tanks, progressively reducing pipe diameter, restricting water flow and eventually causing complete blockages. The pH of process water is another important parameter in glass processing. When a filtration system depends on maintaining a specific pH range, conflicts may arise between the conditions required for effective filtration and those needed for optimal glass finishing. These conflicts can affect the consistency and quality of the finished product. A treatment chemical intended to improve separation can therefore become a source of corrosion, clogging, maintenance costs and quality problems.

BIOCIDES: NECESSARY CAUTION, NOT SYSTEMATIC DOSING

Biological growth is another common concern in industrial water circuits. Warm temperatures, organic contamination and stagnant areas can encourage the development of bacteria, algae and biofilms. Biocides may sometimes be necessary, but they must be selected, handled and dosed with extreme care. These substances are designed to kill or inhibit living organisms. Incorrect concentrations, unsafe handling or unnecessary exposure can create risks for operators and the working environment. Systematic biocide dosing should therefore never replace proper water-circuit design, filtration, cleaning and preventive maintenance. Repeated exposure to insufficient or sublethal concentrations can also favour the survival of more tolerant microorganisms. Over time, microbial populations may adapt, while biofilms can provide additional physical protection against treatment. The result may be a cycle in which increasingly frequent or aggressive chemical dosing is required to maintain the same level of control. For this reason, biocides should be used only when necessary, following a carefully defined protocol and with full consideration of operator safety, environmental impact and long-term effectiveness.

VITROSEP: FILTRATION WITHOUT HARMFUL CHEMICALS

VITROSEP provides a fundamentally different approach to water treatment in glass processing. Its filtration process is free from harmful chemicals and does not depend on aggressive inorganic salts to separate glass particles. Nor does it require the systematic use of biocides to compensate for poor water management. Only carefully selected organic compounds, specifically designed for glass-processing applications, are involved in the company's filtration process. Their role is to support efficient separation without introducing the corrosive inorganic ions associated with many conventional flocculation systems. VITROSEP removes glass particles of all sizes, producing continuously clean process water and dry, manageable waste. By eliminating the source of contamination instead of masking its effects with aggressive chemicals, the system protects machinery, reduces pipe clogging and helps maintain stable grinding and finishing quality. Clean water is not simply an environmental objective. It is an essential production resource. Avoiding harmful chemicals means longer equipment life, fewer maintenance interventions, safer working conditions and more consistent glass quality. In a modern glass factory, the best water-treatment system is not the one that looks better or merely claims to produce cleaner water. It is the one that removes the problem without creating new ones.

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SCHIAVO brings CNC, washing and lifting to Glasstec 2026

SCHIAVO will be exhibiting Italian-made flat glass machinery at Glasstec 2026. That includes the FV1000 CNC drilling-milling machine, vertical and horizontal washing systems, vacuum lifters and MANI manipulators. It will also cover washing, lifting, processing, safety, Industry 4.0 classification and live demonstrations - all in Hall 15 at Stand F27.



SCHIAVO AT GLASSTEC: ITALIAN-MADE MACHINERY FOR FLAT GLASS PROCESSING

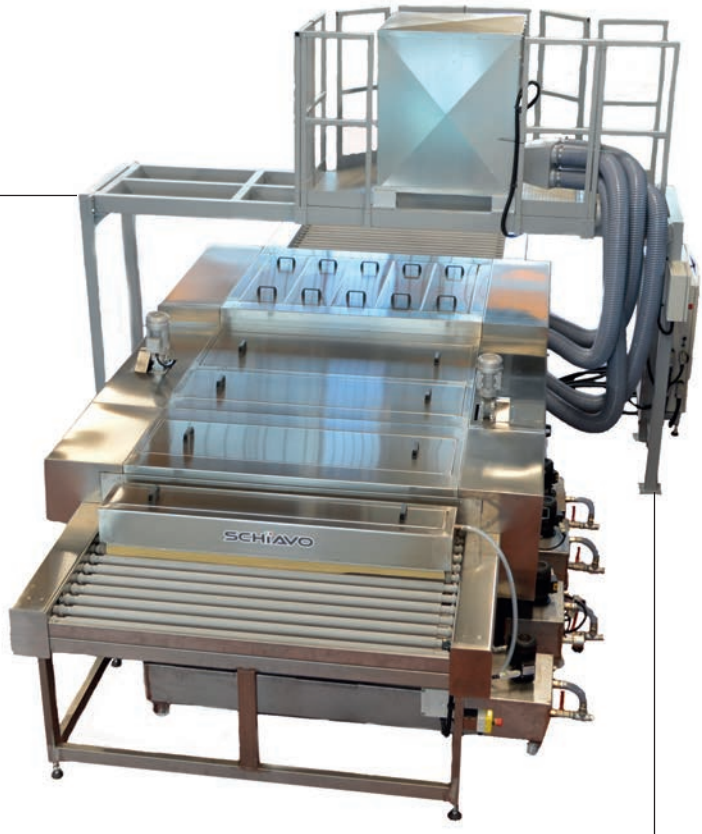
Schiavo Srl, based near Milan in Robecchetto con Induno, has designed and built machinery for washing, lifting and processing flat glass for more than 40 years, with production kept entirely in Italy. At Glasstec 2026, the company presents its full product range: CNC drilling-milling machines, vertical and horizontal washing machines, vacuum lifters and manipulators.

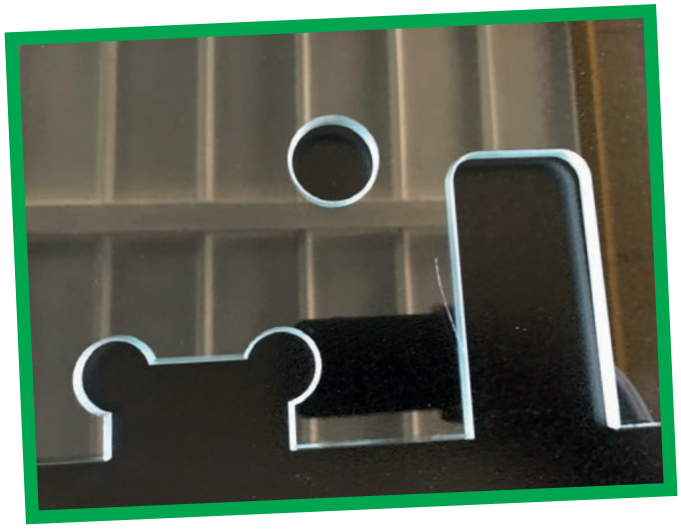
CNC DRILLING AND MILLING: THE FV1000

The FV1000 vertical drilling-milling machine is a 4-axis CNC unit built to cut holes, notches and profiles into flat glass sheets, for hinges, locks and hardware on glass doors and furniture panels. Its built-in shape library covers standard profiles, including squares, circles, rounded corners, corner cuts, mickey-mouse cutouts and U-shapes, and any shape can be edited and saved as new. ISO and DXF files load via LAN, Wi-Fi or USB. Alternatively, direct-drawing mode recalls stored templates and allows the operator to adjust parameters on the console, with no specialist training required. An integrated pneumatic gripper positions the glass automatically, leaving the operator only to load and unload. The FV1000 is Industry 4.0 classified.

FLAT GLASS WASHING: FIVE VERTICAL MODELS, ONE IN-LINE HORIZONTAL MODEL

The vertical washing range spans five models: EASY, TOP, WD, PLUS and HYDRO. The machines are sized for glass heights from 1,600 to 3,300 mm. EASY, in the 1,600 and 2,000 mm sizes, is the entry-level model for price and performance. TOP, built in stainless steel, covers heights from 1,600 to 3,300 mm at thicknesses up to 20 mm. WD adjusts thickness by hand crank, up to 20 mm, in the 1,600 and 2,000 mm sizes. PLUS extends the same 20 mm thickness capacity to the 3,300 mm size, with a structure built for a longer service life. HYDRO is the flagship: it handles thicknesses up to 40 mm across the 1,600-3,300 mm range, is built for in-line connection to other machines, and is Industry 4.0 classified, with remote assistance and machine data exchange. For horizontal processing, the HTL series covers glass widths from 500 to 3,300 mm and thicknesses up to 40 mm, either stand-alone or in line with double-edging machines. HTL is also Industry 4.0 classified.





VACUUM LIFTING: FROM 180 KG TO TRIPLE-JUMBO INSULATING GLASS

Schiavo's vacuum lifters come in three configurations: fixed, manual and motorised. Load capacities range from 180 to 2,000 kg, and above 2,000 kg on request. Every unit has a steel structure, a dual safety circuit and a dual vacuum tank. If the power supply is interrupted, the grip on the glass sheet holds. An audible and visual alarm signals both when the vacuum level needed for lifting has been reached and when any pressure drop indicates a risk condition. For structural insulating glass, the range includes lifters built specifically for the 6,000 x 3,300 mm triple-jumbo format.

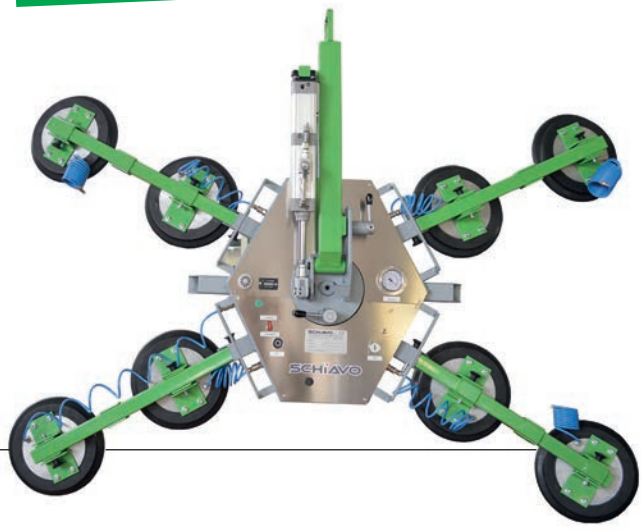
MANIPULATORS: THE MANI SERIES, PNEUMATIC TO ELECTRIC

The MANI series extends the lifting range with ma-



nipulators built for integration into insulating-glass lines and straight edging machines. A centralised control console unifies the vacuum commands and, on electric-lift versions, the hoist commands for up and down movement. One operator handles both the vacuum engagement and the vertical movement, reducing the ergonomic strain of managing separate controls while increasing throughput. The pneumatic configuration, the MANI2SPGBP model, runs entirely on air, using a high-precision pneumatic cylinder that gives a more rigid, stable feel than cable-based systems. It is suited to environments that require fast handling cycles. The model is available in 2-pad and 4-pad configurations, with load capacities from 250 to 360 kg and a customisable lifting stroke. The integrated console manages lifting, 90-degree rotation and tilting from a single ergonomic control point. A dual-button release system ensures the glass is discharged only when intended. The electric-lift configuration, the MANI2E model, combines this control logic with an electric hoist for applications that require up and down control integrated into the console rather than operated separately via a wired push-button panel. Every MANI model is CE certified and designed to comply with current safety directives. Both versions will be on display at the Schiavo stand: MANI2E electric and MANI2SPGBP pneumatic. Glasstec 2026 will take place in Düsseldorf. The Schiavo stand is in Hall 15, Stand F27. It will show the full range live, from CNC drilling to vacuum lifting, including the MANI2E and MANI2SPGBP manipulators. Visitors who wish to view a technical demonstration can book a slot in advance to avoid waiting at the stand.





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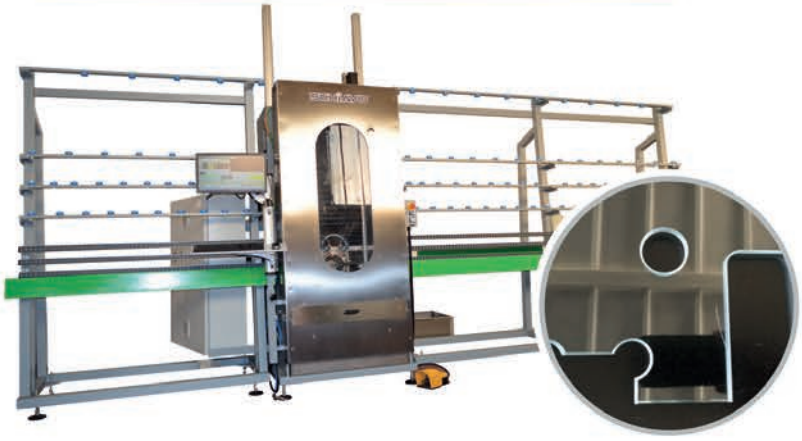
HYDRO
Vertical washing machine



HTL
Horizontal flat glass washing machine



FV1000
Vertical milling and drilling machine



GEBI
Vacuum lifter



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Patent-pending laser concepts highlight GLASS COMPANY development approach

At Glasstec this year, GLASS COMPANY will be exhibiting an idea-driven technology model that covers LASERMEK developments in laser drilling and marking, as well as wider laser applications, FIREMEK, VISIONMEK Full Vision and SOFTMEK. Also look out for JINGLASS tempering technologies, quality scanning and turnkey systems for advanced glass processing with international partner know-how and automation.

GLASS COMPANY: TURNING NEW IDEAS INTO INDUSTRIAL GLASS TECHNOLOGIES

Innovation in glass processing does not always start with a machine. Increasingly, it starts with a question: is there a better way to do it. This is the approach Glass Company Srl is taking to Glasstec 2026. Building upon more than 40 years of experience of its founder and 25 years of activity as a company, the Italian specialist is evolving from machinery supplier to technology and development partner for the glass industry. A project may start from a production requirement, a process to be improved or simply a customer's idea. Glass Company combines its engineering expertise with technologies and specialist know-how from an international network of partners to turn that requirement into an industrial solution. At Düsseldorf, this approach will be particularly evident in laser processing, one of the company's key R&D areas.

NEW POSSIBILITIES FOR LASER PROCESSING

Glass Company has been developing laser technologies through its proprietary LASERMEK platform for several years. At Glasstec 2026, the company plans to reveal new developments extending the use of lasers into operations traditionally performed by mechanical systems. One of the most significant projects concerns laser drilling. Glass Company is developing



a new concept, based on a principle not currently available on the market, capable of producing holes and openings in virtually any shape, with single or double-sided countersinking. Rather than simply replacing a mechanical tool with a laser source, the project reconsiders the drilling process itself, exploiting the geometrical freedom, precision, repeatability and digital control offered by laser technology. The solution is currently at an advanced stage of development and is patent pending. A second patent-pending project is a compact laser marking head designed for integration into conventional glass cutting tables. The system is intended to replace, where appropriate, traditional printed labels by permanently marking Mini QR codes, starting from 7 x 7 mm, production data, logos, symbols or machine-readable information directly onto the glass. In addition to eliminating consuma-





bles and label handling, the concept could provide permanent traceability, linking each individual glass lite to its production data from the earliest stages of processing. Both projects are undergoing intensive development, and Glasstec will provide an opportunity to disclose further details about these technologies and the concepts behind them.

AN EVOLVING LASER PLATFORM

Drilling and marking are part of a broader development programme based on LASERMEK. Glass Company is also working on industrial applications for Low-E coating removal, paint removal, surface processing and laser frosting, as well as laser cutting of straight and complex shapes on large-format glass up to 20 mm thick. The objective is not simply to replace existing processes, but to use laser technology to introduce new processing possibilities, greater flexibility and increased digital integration within glass production.

FROM CUSTOMER REQUIREMENT TO TURNKEY SOLUTION

These developments also reflect the evolution of Glass Company's business model. Experience across tempering, laminating, insulating glass, special glass, automation, software, quality control and measurement enables the company to address applications for which a standard machine may not already exist. Starting from the customer's objective, Glass Company identifies the most appropriate combination of its own engineering, technologies and specialised partners. The result may be an individual machine or a complete turnkey system integrating process equipment, automation, software, measurement and production know-how. This collaborative approach is becoming increasingly relevant as glass products and manufacturing requirements become more sophisticated.

INNOVATION BEYOND LASER TECHNOLOGY

At Glasstec, Glass Company will also present developments across its wider technology portfolio. FIREMEK, developed in Italy for the production of flat and curved fire-resistant glass, is evolving towards multifunctional glazing combining fire resistance with ballistic protection. The recently patented VISIONMEK Full Vision insulating glass system, based on transparent glass spacers, will be presented together with SOFTMEK, the company's proprietary software for electrically heated glass. Quality control will be another important focus, with the latest JINGLASS convection tempering technologies for flat and curved glass and the new QUALITY SCANNER for automated defect detection and continuous monitoring of tempering quality. Glass Company's range of washing machines, laminated glass lines and insulating glass production systems for the Italian market will complete the portfolio.

FROM AN IDEA TO AN INDUSTRIAL PROCESS

For Glass Company, Glasstec 2026 will therefore be more than a machinery showcase. It will demonstrate a model in which research, engineering and cooperation with glass processors converge to transform ideas and specific production requirements into industrial solutions. The new laser drilling and marking projects are representative of this philosophy: developing new approaches where conventional technologies present limitations or where the market does not yet offer an adequate solution. Glass Company is thus strengthening its role as a technology partner capable of supporting glass processors from the initial concept through to industrial implementation.

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North American market proximity strengthens STUDIO 1 refrigeration production

A new screen-printing line for refrigeration glass has been introduced in Mexico, reflecting an investment strategy centred on continuous innovation, geographical proximity and advanced technology. The installation incorporates Studio 1 technology and is intended to reinforce the company's presence across the North American market while supporting customised design, high product quality and short delivery times.

MEETING THE DEMANDS OF COMMERCIAL REFRIGERATION

Industrial and commercial refrigeration are developing in a market where rapid response, design quality and technical performance are increasingly important. Within this environment, both the appearance and functionality of glass have a direct role, from supermarket cooler doors to foodservice display cases, where visual precision and structural integrity contribute to overall product quality. To address these requirements, the new Studio 1 glass screen-printing line has been installed at a major manufacturing facility in Mexico. The investment combines technological capability with proximity to key markets throughout the Americas, bringing manufacturing capacity closer to customer demand.



A new refrigeration-glass screen-printing line in Mexico incorporates STUDIO 1 technology to combine advanced processing, geographical proximity and rapid delivery for North American customers. The installation is designed for large heavy-duty panels, durable inks, precise graphics and automated production within a controlled-contamination environment for commercial refrigeration applications.



TECHNICAL MILESTONES: MILLIMETER-LEVEL PRECISION

The production line has been developed for refrigeration applications requiring large, heavy-duty glass panels and suitable glass thicknesses. Its role extends beyond geographical expansion, introducing a higher level of precision into the glass-processing stage. The inks used in the process are formulated to withstand thermal shock, persistent humidity, condensation and aggressive cleaning chemicals without fading or peeling. At the same time, the system is designed to provide uniform ink coverage and sharply defined lines for logos, frames and customised finishes. Production is organised through an automated workflow operating within a controlled-contamination environment. According to the supplied information, this configuration is intended to prevent surface defects, dust contamination and other imperfections during the screen-printing process.

A VISION FOR THE FUTURE

The new setup is intended to prepare each processed glass piece for the operating conditions associated with modern refrigeration applications. The resulting products combine high-efficiency thermal insulation with visual presentation intended for retail environments. The Mexican installation also strengthens production capacity closer to the markets of the Americas. In this context, Studio 1 technology forms part of a broader effort to combine manufacturing performance, design flexibility and faster delivery within the refrigeration-glass sector.

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Automated glass cutting gains new TALAMONI product options

This year at glasstec, TALAMONI will be presenting Made in Italy cutting heads, cutting wheels, oils, lubricants and professional glass cutters as it highlights DSG finishes, TA400/E Fluid, renewed manual tools and expanded CNC compatibility - all against the backdrop of its 14th participation after 32 years in the glass sector.



Talamoni is preparing now for glasstec 2026 at a moment when the international glass industry is looking for discussion, technical exchange and practical answers to production challenges. Despite geopolitical uncertainty and difficulties in sourcing raw materials, which have increased production costs and created concern about the near future, the company sees the exhibition as an important occasion to meet customers, partners and visitors from around the world.

A SEASONED GLASSTEC EXHIBITOR

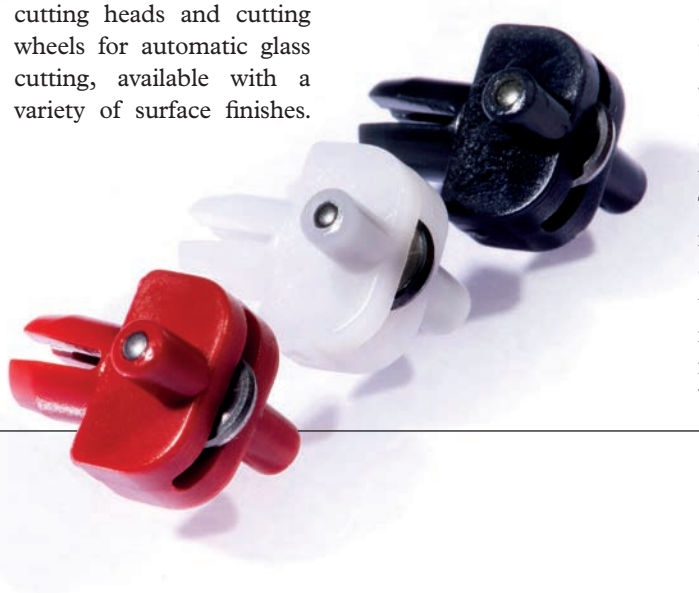
With 32 years of activity in the glass sector, Talamoni Srl. will be taking part in glasstec for the 14th time. Throughout the four days of the exhibition, the team will be at the stand to present the company's latest developments, listen to customer requirements and help identify solutions aimed at high-performance production targets. An Italian manufacturer of cutting wheels and cutting heads for glass, Talamoni has built its



reputation on consistency, quality and innovation. At first glance, these tools may appear simple. In practice, the tungsten carbide cutting wheel remains the most widely used tool on the glass cutting bench today. As cutting machines become more advanced, precise and fast, cutting heads also have to evolve in line with the demands of modern cutting tables. At Talamoni, extensive testing has been carried out to optimise wheel edge finishing and guarantee clean, precise scoring. A range of edge roughness levels has been developed to give professionals the most suitable tool for achieving a sharp, clean cut. The company has also invested in research to identify effective carbide blends. The aim is to extend wheel life and reduce the need for frequent tool changes, giving glass processors a time-saving advantage without increasing product costs.

CUTTING RANGE

At glasstec 2026, Talamoni will present its complete range of Made in Italy cutting heads and cutting wheels for automatic glass cutting, available with a variety of surface finishes. Among these is the tried-and-tested DSG finish, developed to optimise the cutting of laminated and coated glass while guaranteeing precise scoring and facilitating the opening of glass sheets. The DSG wheel finish is available across the various cutting-wheel sizes and in cutting heads. The range of cutting-head models produced by Talamoni has also been expanded, with metal modules for CNC machines designed to meet the requirements of machinery manufacturers. Cutting heads are available for Bottero, Hegla, Intermac, Lisec, Macotec, Turomas and other systems. These solutions facilitate cutting-wheel replacement and fit directly into the cutting heads of cutting tables. New developments include cutting heads for Bottero and Lisec CNC machines, including new cutting-wheel holders for Bottero and Lisec cutting tables. Talamoni will also present a new version of the CSH, designed for universal use on cutting tables that still employ coloured plastic clips.

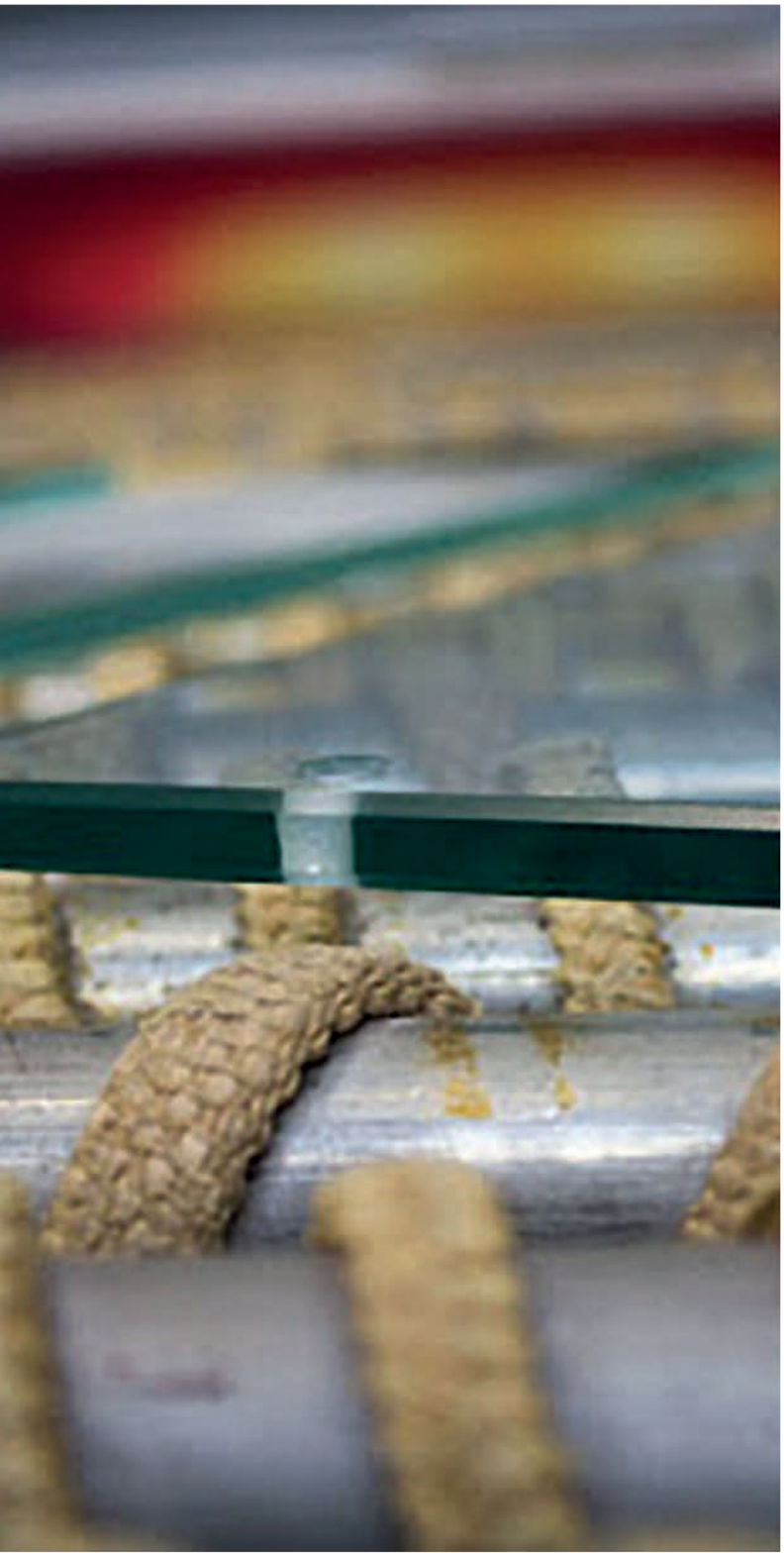


Glasstec 2026 will also provide the setting for new cutting-oil formulations and a range of lubricants for glass grinding.

OILS AND TOOLS

The Talamoni cutting-oil range has been expanded from four products to five with the introduction of TA400/E Fluid. This fully volatile, synthetic-based fluid does not oxidise and therefore leaves no residue on the glass. It is also suitable for low-emissivity and coated glass. In contrast to the mineral-based products referenced by the company, TA400/E carries no hazard pictograms for either operators or the environment. Continuing its development of products designed to be easier on both the environment and operators, Talamoni has also introduced a line of lubricants for glass grinding. TA1000PG is a soluble, polymer-based synthetic product for glass grinding, while TA560PM is a synthetic product offering excellent lubricating properties for the same application. The company's established range of professional glass cutters, manufactured entirely in Italy, has also been renewed. The material used for the glass-cutter head has been improved to optimise the movement of the cutting wheel. At the exhibition, Talamoni will present the VB CUT and OSCUT models with plastic handles, the SICUT model with a metal handle suitable for cutting glass from 1 to 10 mm thick, and the SICUT GP, designed for cutting glass with thicknesses from 12 to 19 mm. All four glass-cutter models are produced with the Diamant wheel, available in different finishes according to the intended application of the tool. Talamoni's objective is to provide high-quality solutions for glass-cutting processes. During the exhibition, the company will not only display its products, but will also be available to discuss new trends, applications and customer requirements. To mark its 32nd anniversary, Talamoni will offer a special promotion on the DSG S automatic-cutting wheel range and on its manual cutting range. Visitors will be able to discover and test .

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High TEMPERATURE GASKETS





Texpack srl is a manufacturer of various products for the protective coating of rolling rollers in tempering furnaces in the flat glass industry and conveyor belts. For example:

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Aramtex® tapes are produced using 100% pure paraaramid yarns with discontinuous filaments, which are usually woven in several layers.

1210N
Aramtex® continuous filament tapes
Aramtex® tapes are produced using 100% pure paraaramidic yarns with continuous filaments, that are usually woven in several layers,





Texpack also produce textiles for the glass industry: roller coatings for tempering furnaces in flat glass production, as well as coverings for molding dies or handling clamps for hot glass.

1200C
Aramtex® discontinuous filament sleeve
The Aramtex® sleeve is produced using 100% pure aramid yarns with discontinuous filaments that provide it with greater softness and good mechanical resistance at a lower cost compared to sleeves made with continuous filaments.

1210C
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300+

Completed and accepted more than **300 intelligent factory projects**



One-stop

Deeply engaged in the glass processing field, **providing one-stop full-cycle services for software & hardware**



15000+

More than **15,000 cutting machines** in stable use worldwide

Integrated waterjet capability strengthens SYSTRON glass processing lines

A POWERFUL DUO: SYSTRON PROMD EXPANDS CAPACITY AT GLASMETALL TEMMEL

A second systron glass processing line has added capacity and flexibility for glasmetall Temmel's growing project business. In 2021, the Austrian glass processor glasmetall Günter Temmel invested in a systron proHD, making the CNC processing centre the new centrepiece of its glass production. Five years later, one machine has become a powerful duo: since February 2026, a systron proMD with integrated waterjet and a systron WM washing and drying station have complemented the existing proHD line. Additional capacity, a growing project business and greater production flexibility were the main reasons for the investment.

Based in southern Styria, Austria, glasmetall Temmel today employs 38 people. In recent years, the family-owned company has continuously expanded its in-house glass processing capabilities, particularly in the production of laminated safety glass. Precision and repeatability are essential in this field. Individual panes for laminated glass must be processed accurately and with matching geometries. For Managing Director Thomas Temmel, this has become an important quality standard. As he explains, customers have become accustomed to this level of quality, and if something is processed differently, questions quickly follow. The company's market position

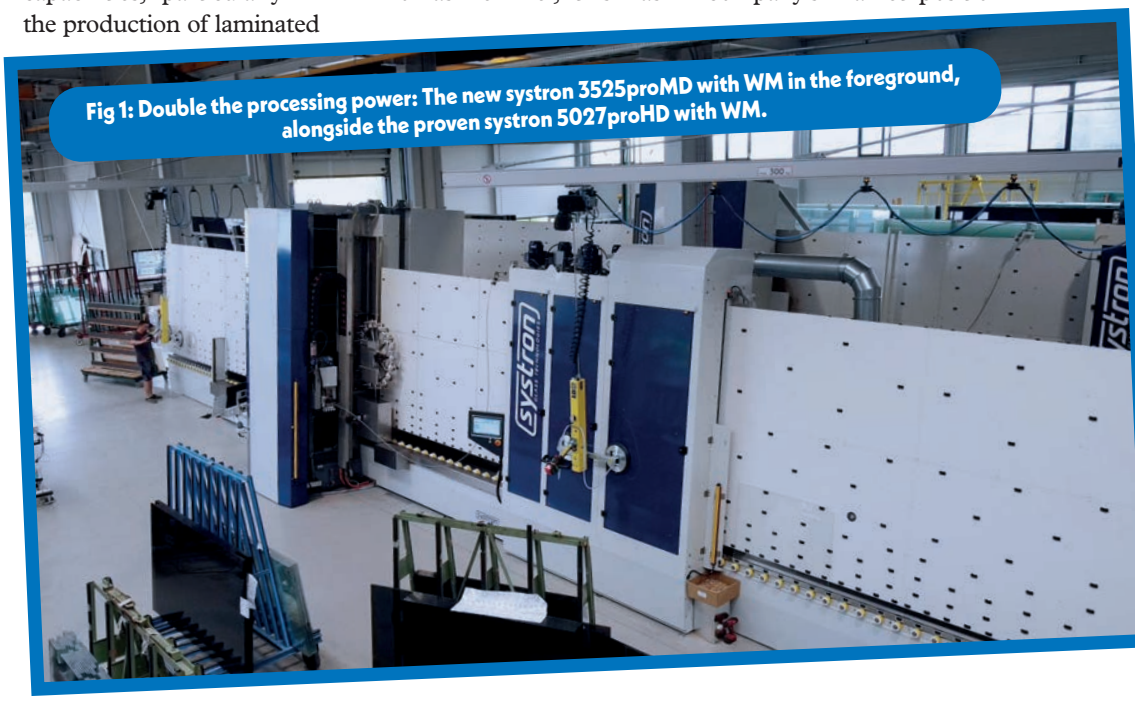


Fig 1: Double the processing power: The new systron 3525proMD with WM in the foreground, alongside the proven systron 5027proHD with WM.

At glasstec 2026, systron will focus on the proMD Milling & Drilling Centre and the next level of automated vertical glass processing. Key topics include double-sided processing, patented water cushion technology, integrated waterjet cutting and flexible automation concepts – from loading and storage to intelligent glass handling for highly automated production. HALL 15 | STAND E44

is being built around the need to be faster and to deliver better quality.

FIVE YEARS WITH THE SYSTRON PROHD

The investment in the systron proHD in 2021 marked an important step in the development of Temmel's in-house processing. Different operations could be combined on one machine while reducing manual glass handling. According to Thomas Temmel, many of the company's current products could no longer be manufactured efficiently, in terms of quality, without a machine of this kind. The benefits are particularly apparent with demanding geometries. Custom shapes, parallelograms, holes, countersinks and complex cut-outs can all require several processing steps. Combining these operations on a CNC processing centre gives Temmel the flexibility required for increasingly sophisticated customer projects. At the same time, the company's project business has grown. Orders involving a high proportion of in-house value creation are particularly attractive, in-



Fig 2a + b: Powering production from above: With around 700 kW of installed capacity, photovoltaic panels on glasmetall Temmel's roofs and façades generate electricity for the company's production.



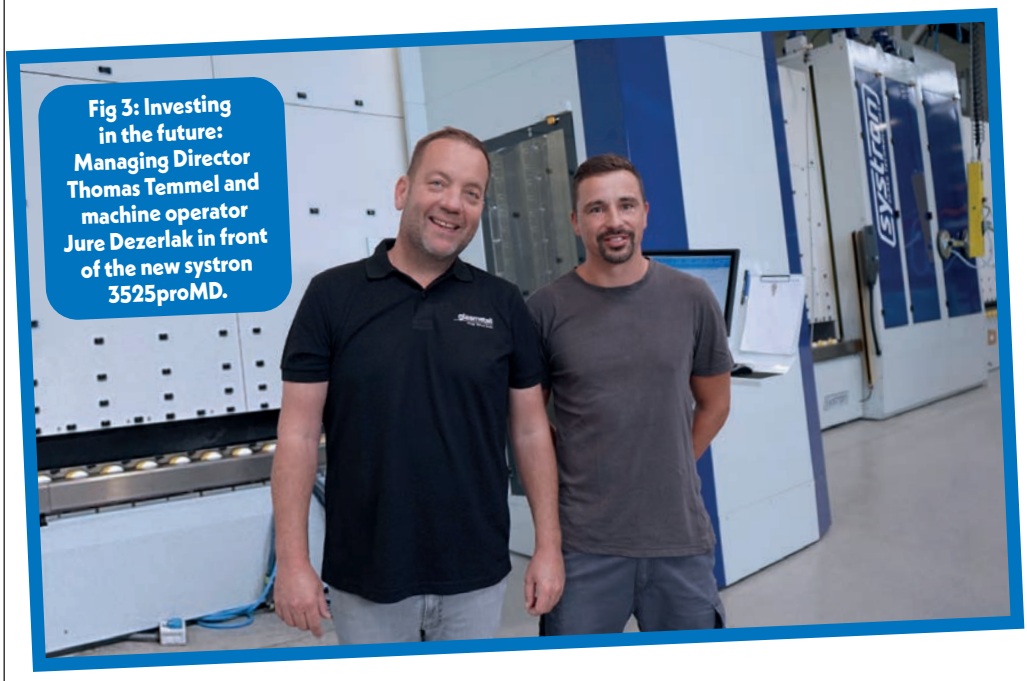


Fig 3: Investing in the future: Managing Director Thomas Temmel and machine operator Jure Dezerlak in front of the new systron 3525proMD.

cluding custom-shaped laminated glass with extensive machining or digital printing. Growth, however, also brought a new challenge: capacity.

MORE CAPACITY FOR PROJECT BUSINESS

As machine utilisation increased, larger projects had to be produced without interfering with the company's day-to-day business. For Temmel, project business requires the ability to handle larger work alongside normal daily production. The company therefore decided to invest in a second systron machine. The new systron proMD is equipped with an integrated waterjet and combined with a systron WM washing and drying station. Having two processing centres allows Temmel to distribute jobs according to geometry, processing requirements and current machine utilisation. The second machine not only adds capacity but also gives production planning greater flexibility and provides additional production reliability. Before making the decision, Thomas Temmel and his father Günter also evaluated other solutions available on the market. Their experience with the existing systron machine ultimately played an important role. For an investment of this size, Thomas Temmel says, knowing the quality and support already provided by systron gave the company confidence.

WATERJET ADDS FLEXIBILITY

Since February 2026, the new systron proMD has been fully integrated into production. Designed for glass sizes up to 3.5 x 2.5 metres, the machine combines conventional CNC processing with integrated waterjet technology. According to Thomas Temmel, the proMD has become the company's main machine. The processing method used depends on the job. For series involving





a large number of identical holes, conventional processing with drills and milling tools can be the appropriate choice. When diameters vary, or when complex cutouts and individual contours are required, the integrated waterjet provides additional flexibility. This combination allows the company to select the processing method according to the specific requirements of each glass component rather than relying on a single technology. For Temmel, the waterjet has quickly become an established part of daily production, to the point that once it is in production, working without it becomes difficult to imagine. One practical advantage is the ability to cut different contours and diameters without requiring a corresponding tool for each geometry. This is particularly useful for individual components, complex cutouts and changing project requirements.

PLANNING FOR THE NEXT STEP

Temmel has also considered how production may develop in the future. The new systron proMD was positioned so that the production setup can later be expanded with storage and robot loading technology. At the same time, the company is investing in its own energy supply. Photovoltaic modules installed across its roof and façade areas provide around 700 kW of capacity. During operating hours, they cover approximately one third of the company's energy requirements, while surplus electricity can be fed into the grid at weekends. For the family business, modern production technology remains an important part of responding to shorter lead times, price pressure and increasing quality requirements. What began in 2021 with a new centrepiece has therefore developed further. With the systron proHD and systron proMD, glasmetall Temmel now has two processing centres that provide the capacity and flexibility required for its growing project business, while leaving room for further automation in the future.



MEET SYSTRON AT GLASSTEC 2026

systron will be exhibiting at glasstec 2026 in Düsseldorf, Germany, from 20 to 23 October. Visitors can meet the systron team at Hall 15, Stand E44 to discuss CNC glass processing, waterjet technology and automation solutions for flat glass processing.

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Beyond tradition: TESIR MAKINE's ascent in vertical CNC glass processing

The Tesir Makine HG Series Vertical CNC Machine is designed for a wide variety of operations, combining seaming, grinding, polishing, drilling, milling and countersinking to ensure high operational efficiency and precision.

In the specialized sector of glass processing machinery, advanced vertical CNC technology has traditionally been shaped by a select group of European manufacturers. Operating from its headquarters in Esenyurt, Istanbul, Tesir Makine has established a distinctive presence since 2014 by successfully developing and globally deploying advanced vertical glass processing solutions. Standing as the first Turkish manufacturer—and among the very few producers outside of traditional European engineering origins—to achieve this milestone, the company demonstrates deep technical expertise and strong R&D dedication across 15 countries and 3 continents.

Immagine principale:

THE FLAGSHIP INNOVATION: HG SERIES VERTICAL CNC MACHINE

At the core of Tesir Makine's portfolio is the flagship HG Series Vertical CNC Machine, a multifunctional processing centre engineered to perform all essential glass operations within a single vertical station. Designed for both independent operations and large industrial plants, the HG Series seamlessly combines seaming, grinding, polishing, drilling, milling and countersinking.

The HG Series incorporates advanced technical specifications to ensure high operational efficiency and precision:

- High-Performance Hiteco Spindles: Powered by two 13.5 kW ceramic-bearing spindles strategically positioned outside the machining area for enhanced protection.
- Intelligent Tool Management: Features a 20-tool magazine system divided into two sets, allowing operators to change tools proactively and maintain uninterrupted production.
- Advanced Suction Belts Unit: Provides secure stabilization and gentle conveyance for delicate Low-E and coated glass panels.
- Intuitive CAD/CAM Control: Governed by a 21.5 inch industrial computer touchscreen interface that manages complex tool paths, automatic thickness detection and torque-based dimension recognition.

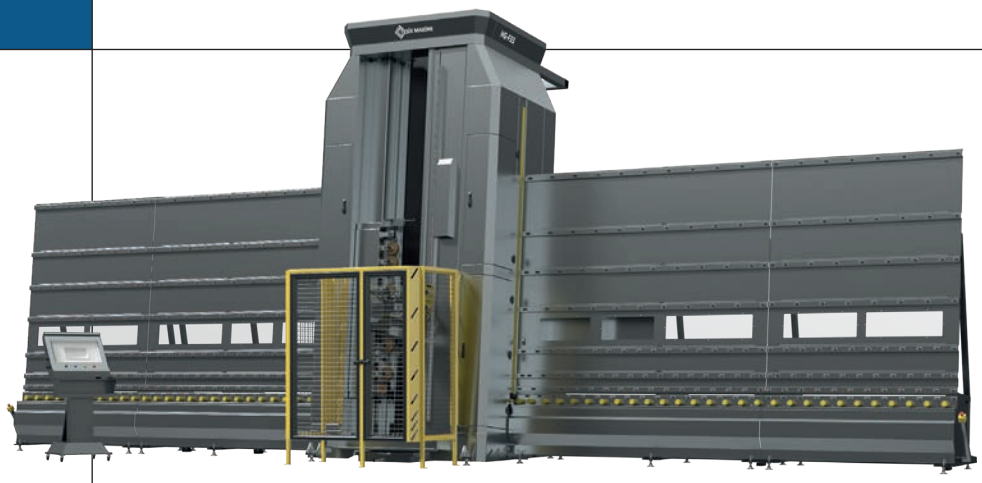




COMPREHENSIVE PRODUCT ECOSYSTEM

Beyond the flagship HG Series, Tesir Makine offers a diverse and robust product range tailored to modern architectural, automotive and interior glass manufacturing:

- VT Series Vertical Edging Machines: Compact centres specialized for high-speed automated seaming, grinding and polishing on monolithic and laminated glass.
- SV Series Vertical Seaming & Grinding Machines: Equipped with dual processing units and corner-breaking capabilities to support insulating glass (IG) and tempering lines.
- HS Series Vertical Drilling Machines: Engineered for precision drilling and countersinking, featuring a 6-model module magazine and specialized clamp modes for shaped glass.
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- Specialized Horizontal Solutions: Including the BD400 (shower glass multi-hole drilling), HD200 and RD100 (horizontal drilling), and ST200 (cross-belt seaming machines).





JOIN TESIR MAKINE AT GLASSTEC 2026

Tesir Makine cordially invites all visitors, industry professionals and partners to join them at Glasstec 2026 in Düsseldorf. Visit them at Hall 12, Stand E45 to experience their cutting-edge technology firsthand and watch live demonstrations of operating machinery, including the HG, VT, SV and SK series.

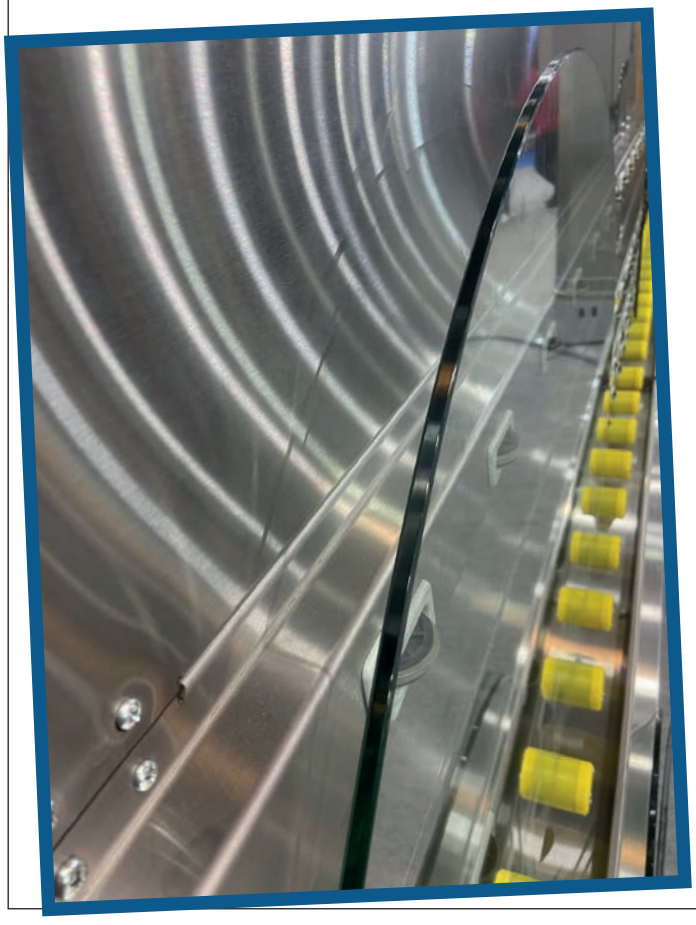
RELIABLE SUPPORT AND GLOBAL COLLABORATION

A key pillar of Tesir Makine's philosophy is its responsive service infrastructure and dependable spare parts availability, ensuring minimal downtime and sustained operational efficiency for partners worldwide.

As the company continues its international growth, discussions are welcomed with prospective dealers, agents and distributors interested in representing the brand locally. Because active exclusive distribution agreements are already maintained in certain regions, interested parties are kindly requested to contact the team directly to check territory availability and explore potential cooperation.

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BOOTH: E45

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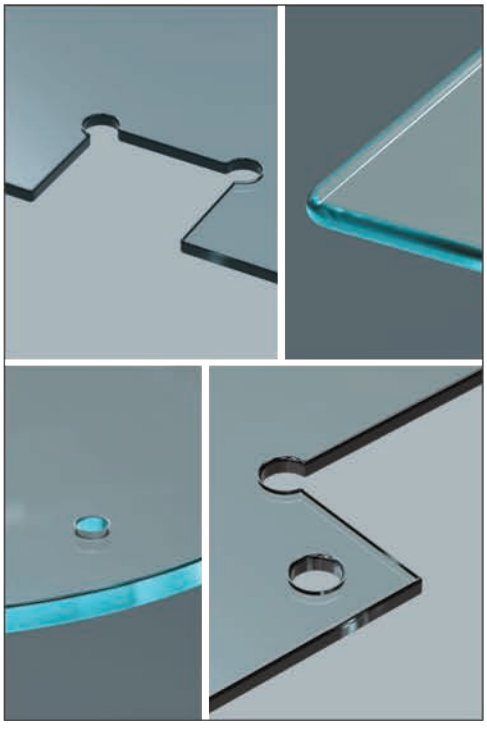
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London Net-Zero ambitions use EDGETECH warm edge spacers

While "Net Zero Carbon in Operation" has become standard practice in many new developments, the London high-rise complex 2 Finsbury Avenue operates on a different level. The project partners British Land, GIC and Modon, together with Danish architectural practice 3XN GXN, are pursuing a more demanding ambition: reducing not only operational emissions but also the embodied carbon associated with construction and manufacturing to net zero. The glazing supplied by AGC Interpane contributes to this objective in several ways. The base glass used is Cradle to Cradle Bronze certified, while project-specific coatings help reduce heating and cooling demand and therefore the building's operational carbon footprint. The flexible Super Spacer® T-Spacer™ SG from Edgetech Europe/Quanex has also been specified for the large-scale structural glazing units, with long-term durability and gas-tightness central to the system's role over many decades.

CIRCULARITY AS THE FOUNDATION OF NET ZERO

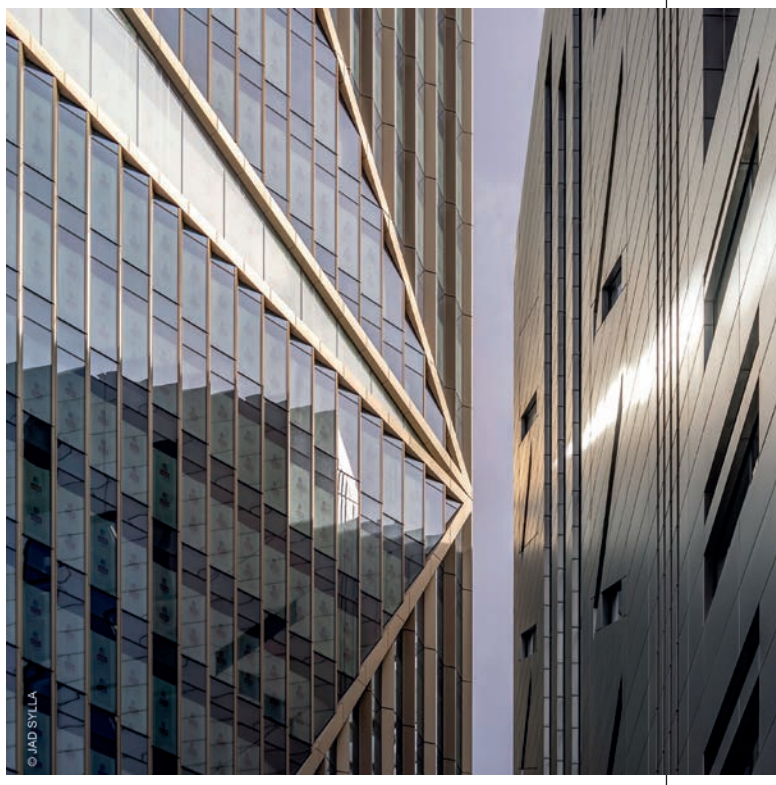
GXN Innovation, the innovation unit established by 3XN in 2007, describes "Urban Upcycling" as one of the key pillars in achieving the project's Net Zero Carbon in Construction target. Before demolition of the two existing buildings from the 1980s, a comprehensive pre-demolition audit identified and catalogued opportunities for material reuse and upcycling. The results were substantial. Ninety-eight steel beams were approved for reuse, approximately 2,500 cubic metres of concrete were recovered, crushed and reused in the new building's foundations, around 9,500 square



At 2 Finsbury Avenue, EDGETECH spacer technology contributes to structural glazing designed for long-term durability and gas-tightness. The project combines circular construction, complex façade geometry, solar-control glazing, natural ventilation, reusable components and ambitious net-zero, BREEAM Outstanding, WELL Platinum and NABERS targets - all in London Broadgate Campus development.

metres of floor tiles were stored for future reuse, about 100 tonnes of steel were incorporated into the new structural frame, and parts of the former aluminium façade were repurposed as cladding for the new cycle ramp. Together with additional measures such as the use of electric arc furnace steel, these initiatives helped reduce the building's embodied carbon from an originally planned 755 kg CO_2 equivalent per square metre to approximately 647 kg CO_2 equivalent per square metre. At the same time, the building has been designed so that many of its components, including the façade, can be dismantled and reused at the end of their service life. The project is also targeting BREEAM Outstanding, WELL Platinum and a 5-star NABERS rating.





FLEXIBLE WORKSPACES AT BROADGATE CAMPUS

Located on the north-western edge of Broadgate Campus in the City of London, directly beside Liverpool Street Station, 2FA forms the final milestone in Broadgate's transformation into a mixed-use urban district. The development comprises two towers of 23 and 38 storeys connected by a 12-storey podium. Across approximately 100,000 square metres, the project provides flexible office space suited to a wide variety of working styles and business requirements. Its concept extends beyond the traditional office building, with shared work and event spaces, a podcast studio and a winter garden with café covering around 650 square metres. A Learning Hub on the ground floor is planned as a public venue for events and educational activities serving the community.



ABOUT EDGETECH EUROPE GMBH

Located in Heinsberg, Germany, Edgetech Europe GmbH is a fully-owned subsidiary of Quanex Building Products Corporation, a global, publicly traded manufacturing company primarily serving OEMs in the fenestration, cabinetry, solar, refrigeration and outdoor products markets. The company serves markets in continental Europe with a total of 490 employees and 17 extruders. As part of Quanex, it contributes to improving the performance and aesthetics of end products through continuous innovation, helping customers achieve greater production efficiencies and giving back to the communities where it operates.

HIGHLY COMPLEX FACADE CONSTRUCTION

Unlike other London skyscrapers often associated with forms such as gherkins or shards, the 156-metre and 101-metre towers of 2FA bring a sharply defined, crystalline elegance to the city skyline. As visitors approach the development, the sophistication of the façade becomes increasingly apparent. The façade is conceived as a finely articulated three-dimensional sawtooth relief that captures light and reflections in different ways, continually altering the appearance of the building envelope. Diagonal gold sand-coloured aluminium bands divide the façade into faceted triangular forms. Along these lines, the orientation of the sawtooth geometry also reverses. Structurally, the envelope is based on a structural glazing unitised façade system. Typical units measure 1,500 × 3,875 mm and combine a vision area with a shadow box



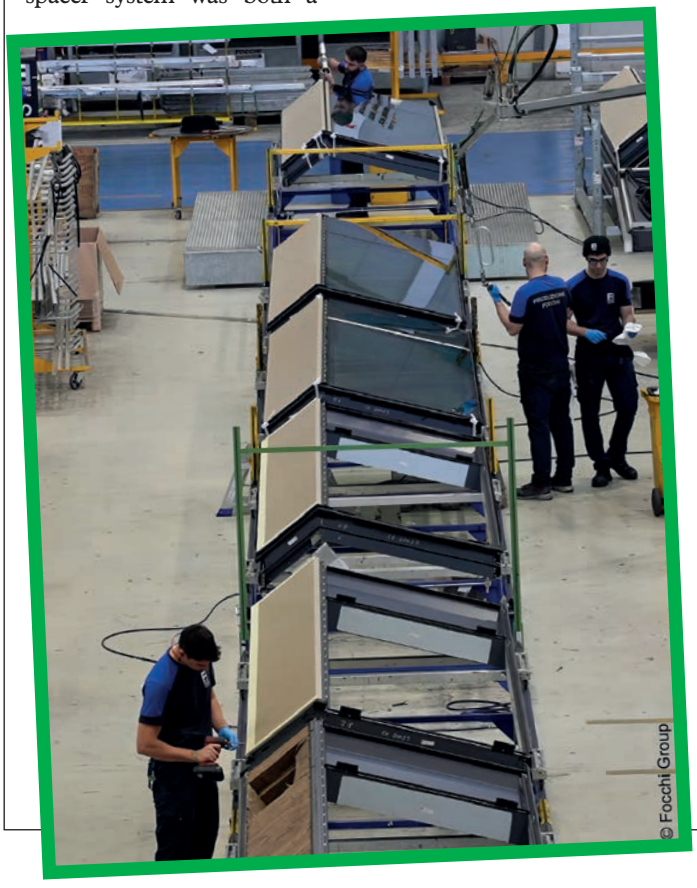
spandrel zone and an opaque façade section clad with aluminium pressings. The insulating glass units themselves reach dimensions of approximately 1,060 × 2,950 mm. For many months, the project team comprising 3XN and Adamson Associates as executive architects, main contractor Sir Robert McAlpine, façade specialist Focchi Group, façade consultants FMDC and engineering consultants Ramboll worked on achieving climate neutrality, a goal that strongly influenced the façade design. The façade had to maximise daylight penetration into the office floors while avoiding unnecessary increases in cooling demand. Simulations showed that the highest solar gains would occur in the afternoon, directly informing the orientation of the sawtooth geometry. The serrated façade geometry is therefore more than an architectural design feature. It forms part of the building's energy strategy. The glazing specification was developed accordingly, with a solar control insulating glass unit featuring a Stopray Vision-52 coating at position 4, an 18 mm argon-filled cavity with the flexible Super Spacer® T-Spacer™ SG, and laminated safety glass on both panes. The outer pane also incorporates an acoustically enhanced PVB interlayer. With a light transmission of approximately 50 percent, the glazing achieves a g value of around 25 percent and an Ug value of 1.0 W/(m²K). At ground floor level, a mullion and transom façade system incorporating solar control and thermal insulating glazing with Clearvision low-iron glass and colour-neutral iplus low-emissivity coatings was used. This configuration achieves a light transmission of at least 75 percent, a total solar energy transmittance of no more than 60 percent, and an Ug value of 1.1 W/(m²K). The opaque façade sections also perform a climatic function. Every second panel is perforated and conceals sensor-controlled vents that can open when required to provide natural fresh air supply. Within the large-scale openings in the sawtooth relief, known as Amenity Cuts and the Amenity Terrace, the folded façade transitions into a planar structural glazing system. These areas accommodate the building's shared amenity spaces. Fully glazed façade elements are articulated by double-height mullions and are supported only at the lower floor slab, while a diagonal structural member resists wind loads. With dimensions of up to 2,500 × 7,500 mm, the insulating glass units in these areas are significantly larger. The glazing build-up was therefore reinforced to accommodate the higher loads. Because the planar glazing is exposed to greater solar radiation, the Amenity Cuts incorporate Saint-Gobain COOL-LITE® glass. Where the diagonals of the Amenity Cuts intersect with the directional changes of the sawtooth geometry, the so-called Snowflake nodes are created, representing the most technically demanding areas of the façade. At eight



building corners, up to ten different façade components converge within a single element, complemented by specially developed air and water sealing systems. In total, approximately 130 façade elements are affected by this geometry.

DURABLE EDGE SEALS FOR STRUCTURAL GLAZING

The insulating glass units were manufactured by AGC Interpane in Plattling using the Super Spacer® T-Spacer™ SG warm edge spacer, a version of the Super Spacer product family specifically developed for structural glazing applications. "The decision to use the Super Spacer® spacer system was both a strategic and an economic one. On projects such as 2 Finsbury Avenue, we need absolute confidence that the edge seal will maintain its performance for decades. Thanks to robotic application, we can manufacture this quality consistently and cost effectively," explains Daniel Bruckelt, Head of Insulating Glass Production. In structural glazing façades, spacer geometry plays a critical role. While the external silicone secondary seal provides UV protection, it is itself permeable to gas. Long-term gas retention therefore depends entirely on the internal polyisobutylene primary seal. To address this requirement, the T-Spacer™ SG features enlarged side contact surfaces. These allow a thicker and more uniform polyisobutylene application on automated insulating glass production lines, with high parallelism to the glass edge and tight tolerances. This is particularly important for large-format glazing with narrow sightlines, both aesthetically and for the stability of the entire unit. Greater and more evenly applied polyisobutylene directly translates into more robust gas retention throughout the service life of the glazing. "Large insulating glass units can weigh several tonnes and yet remain surprisingly sensitive. Wind loads, temperature fluctuations, pressure changes and the thermal expansion of materials all create constant movement within the edge seal. The elasticity of the spacer is a decisive advantage. It can absorb these movements and therefore reduces the long-term risk of seal failure, gas loss and stress cracking around the perimeter," says Christoph Rubel, European Technical Manager at Edgetech Europe. Mike Moran, Vice President of Sales Europe & UK at Edgetech/Quanex, reflects on the origins of Super Spacer®: "The first non-metallic warm edge spacer made from silicone structural foam was a genuine product revolution in 1989. It not only supported the development of energy efficient and thermally optimised building envelopes but also helped create comfortable indoor environments. The fact that it is now used as a matter of course in a landmark project such as 2 Finsbury Avenue is something we can be proud of."





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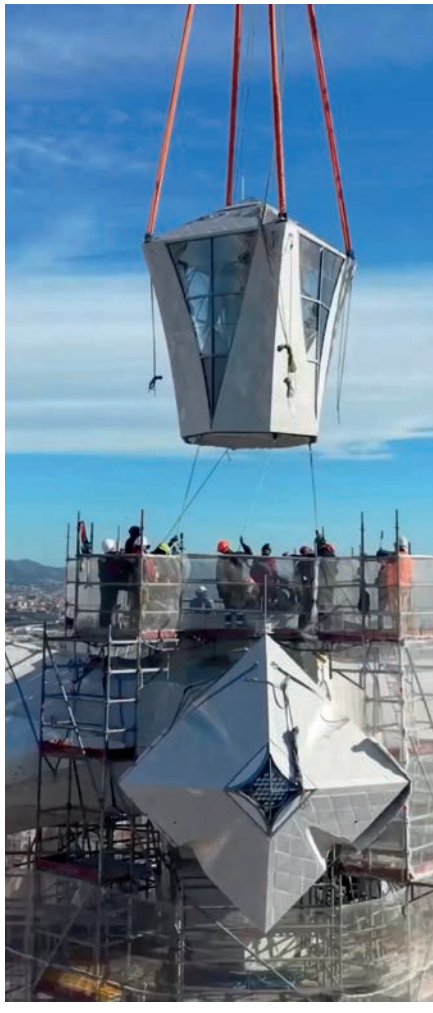
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Gaudí's final height crowns TVITEC CRICURSA glass innovation today

When developing the complex glazed envelope of the Sagrada Família's Cross, TVITEC | CRICURSA combined double-curved laminated glass, cast-glass pyramids, transparent prisms, integrated lighting and bespoke machinery in a four-year programme that helped complete Gaudí's monument at its full 172.5-metre height.



The completion of the Cross atop the Tower of Jesus Christ has brought the Sagrada Família to its designed height of 172.5 metres, closing a structural chapter in a project that has been under construction for 144 years. Now the tallest church in the world and Barcelona's highest building, Antoni Gaudí's monument also stands as a demanding case study in contemporary glass engineering.

A GLAZING SYSTEM BUILT FROM MULTIPLE TECHNOLOGIES

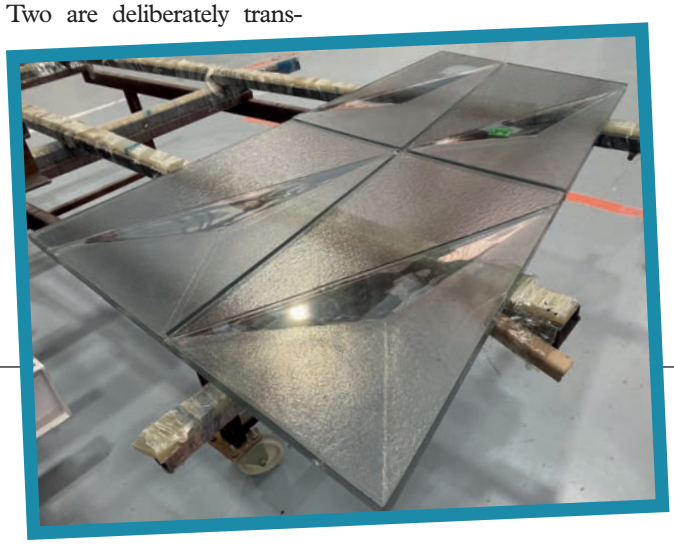
For TVITEC | CRICURSA, the Cross was not a conventional fabrication contract. The company was responsible for developing and producing the highly complex glazing system that encloses it, a task that became a four-year research and development programme. New products, new manufacturing techniques and even new machinery were created in response to the architectural ambitions of the Sagrada Família design team. The Cross resists description through any single glass-processing method. Its envelope brings together hot-glass casting, kiln forming, precision machining, polishing, double-curvature bending and complex laminated glass construction within individual glazing units. Ferran Figuerola, General Manager of CRICURSA, describes it as 'a technological patchwork.' Most of the openings adopt triangular geometries



subdivided into triangular and trapezoidal units. Each panel follows a compound double-curvature geometry, allowing the glass skin to reproduce the complex spatial form of the Cross while maintaining tight manufacturing tolerances. Instead of relying on single monolithic panes, the units are assembled from several laminated glass components, combining transparency, translucency, texture and solar-control performance according to the requirements of each location.

TWO DISTINCT ARCHITECTURAL EXPRESSIONS

The glazing concept is organised around two families of glass products that share structural principles but deliver different visual effects. The first consists of artistic pyramids positioned on the shaft, the base and the upper arm of the Cross. Produced through cast-glass technology, these elements are formed by pouring molten glass onto specially developed moulds that create pronounced pyramidal reliefs. Each pyramid incorporates three facets with different optical properties. Two are deliberately translucent, while the third offers increased transparency. The resulting variation in light transmission reinforces the handcrafted appearance intended by the architects. These pyramidal elements are combined with kiln-formed textured glass before being curved and laminated onto a structural curved glass substrate, creating a highly integrated laminated assembly. The four lateral arms of the Cross use a different architectural language. Here, textured surfaces give way to transparent faceted prisms, described as ‘diamonds,’ which provide uninterrupted views across Barcelona while refracting daylight through sharply defined polished faces. Unlike the artistic pyramids, these components depend on optical clarity and precision machining to create crisp facet transitions and the required light effects.



INNOVATION BEYOND CONVENTIONAL MANUFACTURING

Although the finished Cross is immediately defined by its sculptural presence, the most significant innovation took place in manufacturing. Figuerola notes that producing the complex double-curved geometry was not the greatest chal-



lenge for the company. For TVITEC | CRICURSA, the more demanding task was creating the transparent prisms and artistic pyramids. Neither product could be manufactured through existing industrial processes. In response, TVITEC | CRICURSA launched two parallel research programmes. At Granollers, engineers focused on the development of the cast-glass pyramids. At La Sentiu, the production team concentrated on highly transparent faceted prisms capable of reproducing the architects' vision with absolute optical precision.

THE DEVELOPMENT PROGRAMME LASTED FOUR YEARS

Over that period, successive prototypes were reviewed with the Sagrada Família design team. Each assessment refined both the visual appearance of the glass and the manufacturing processes behind it. Solutions that appeared straightforward at first often failed: facet definition was insufficient, plane changes lacked visual clarity and light refraction did not perform as expected. Each unsuccessful prototype closed one production route and led to more sophisticated alternatives.

DEVELOPING MACHINERY THAT DID NOT EXIST

One of the project's most notable outcomes was the creation of new manufacturing equipment. To produce the transparent faceted prisms, CRICURSA's La Sentiu facility designed and developed bespoke machinery capable of machining glass with a level of precision comparable to diamond cutting. No commercially available equipment could provide the required combination of sharp geometry, optical quality and production accuracy. For Figuerola, this became one of the most satisfying aspects of the project: a building that began more than a century ago was still capable of driving technological innovation in the contemporary glass industry. The artistic pyramids brought their own challenges, requiring deeply textured external surfaces, perfectly flat rear faces suitable for structural lamination, and the coexistence of transparent and textured facets within the same cast-glass element.

ENGINEERING GLASS AT 172.5 METRES

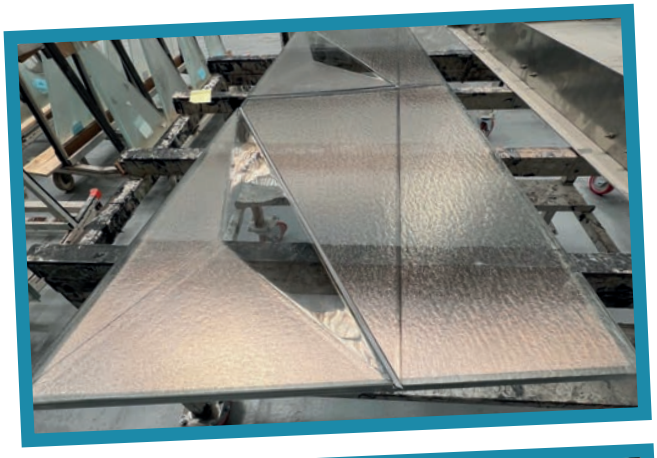
As product development advanced, the structural design of the glazing evolved with it. Working with Arup, the engineering team progressively refined the laminated glass build-up as the architectural concept matured. Rather than defining the final structural solution at the outset, decisions were taken step by step following each phase of product development. The final specification consists of a triple-laminated glazing system incorporating two different interlayer technologies, including a patchwork laminated construction and an integrated solar-control layer. Glass thicknesses, panel dimensions and staggered edge details were individually engineered to optimise structural performance and ensure accurate installation within the bespoke fixing system. Full-scale prototypes then underwent impact testing,



static and dynamic load assessments, interlayer adhesion testing and laminated glass stability evaluations. Although the glazing does not contribute to the primary structural stability of the Cross, every panel was engineered to resist severe wind loads at almost 173 metres above ground level. Each unit is structurally bonded to dedicated support frames designed to accommodate movement and construction tolerances, while staggered glass edges assist positioning within specially engineered mechanical restraints.

ENGINEERING LIGHT AS PART OF THE ARCHITECTURE

Beyond structural performance, the optical behaviour of the glazing became central to the project. The Cross was designed to act differently by day and by night. In daylight, the faceted glass captures, refracts and modulates natural light; after dark, integrated illumination transforms it into a luminous landmark visible across Barcelona. Computer simulations contributed to development, but the project relied heavily on physical mock-ups. Prototype glazing







was first evaluated in factory conditions and later transferred to the construction site. Full-scale installations enabled architects and engineers to assess transparency, texture, light refraction and overall visual performance under real environmental conditions. Through repeated evaluations, the relationship between craftsmanship, engineering and optics was gradually refined until the desired architectural expression was achieved.

ADVANCING THE FUTURE OF CURVED ARCHITECTURAL GLASS

The completion of the Cross is more than the final chapter in the construction of the Sagrada Família. For TVITEC | CRICURSA, it demonstrates how ambitious architecture continues to push the technological boundaries of architectural glass. Delivering the glazed envelope required advanced manufacturing expertise, but also entirely new products, bespoke processing technologies and purpose-built machinery capable of transforming an exceptionally complex architectural vision into buildable reality. The project reached its symbolic conclusion in June, when the completed Cross was inaugurated by Pope Leo XIV during his visit to Spain. For TVITEC | CRICURSA, participation in this milestone places the company at the heart of a project where innovation in glass processing contributed to bringing Gaudí's vision to its definitive completion.

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Elevating glass processing excellence: why TEKNIK ELMAS' Premium Series is redefining edge quality

In the quickly evolving landscape of modern glass manufacturing, precision, durability and cost efficiency are no longer just competitive advantages; they are absolute necessities. Whether working with demanding automotive glass lines, intricate CNC machining centres, high-speed double-edgers for architectural projects or specialized solar glass production, the quality of the final edge dictates the overall integrity of the product. Recognizing this industry-wide demand for superior tooling performance, Teknik Elmas has introduced its groundbreaking PREMIUM Series grinding wheels, engineered to push the boundaries of what is possible in industrial glass processing.

THE ENGINEERING PHILOSOPHY BEHIND THE PREMIUM SERIES

Traditional tooling solutions often struggle to balance longevity with immediate operational readiness. Operators frequently face the frustration of prolonged break-in periods, inconsistent wear rates and excessive waste during the initial production runs. Teknik Elmas has systematically addressed these challenges through advanced manufacturing methodologies and proprietary bond technologies.

The standout characteristics of the PREMIUM Series begin with its exceptional lifespan. Engineered for rigorous industrial environments, these stones offer a significantly longer service life compared to standard market alternatives. This longevity directly translates into fewer tool changeovers, reduced machine downtime and a noticeable increase in overall plant productivity.

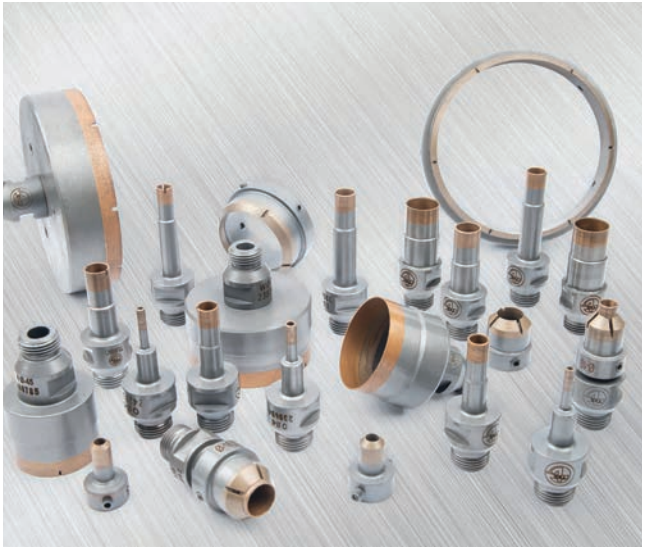
Furthermore, time is money on the factory floor. The PREMIUM Series eliminates the traditional headache of lengthy adjustment phases by delivering minimal waste from the very first piece of glass processed. Thanks to rapid adaptation capabilities and stable production technology, every single stone guarantees consistent quality and performance from the first metre to the last.

FLAWLESS PERFORMANCE ACROSS DIVERSE APPLICATIONS

Modern glass processing encompasses a wide spec-

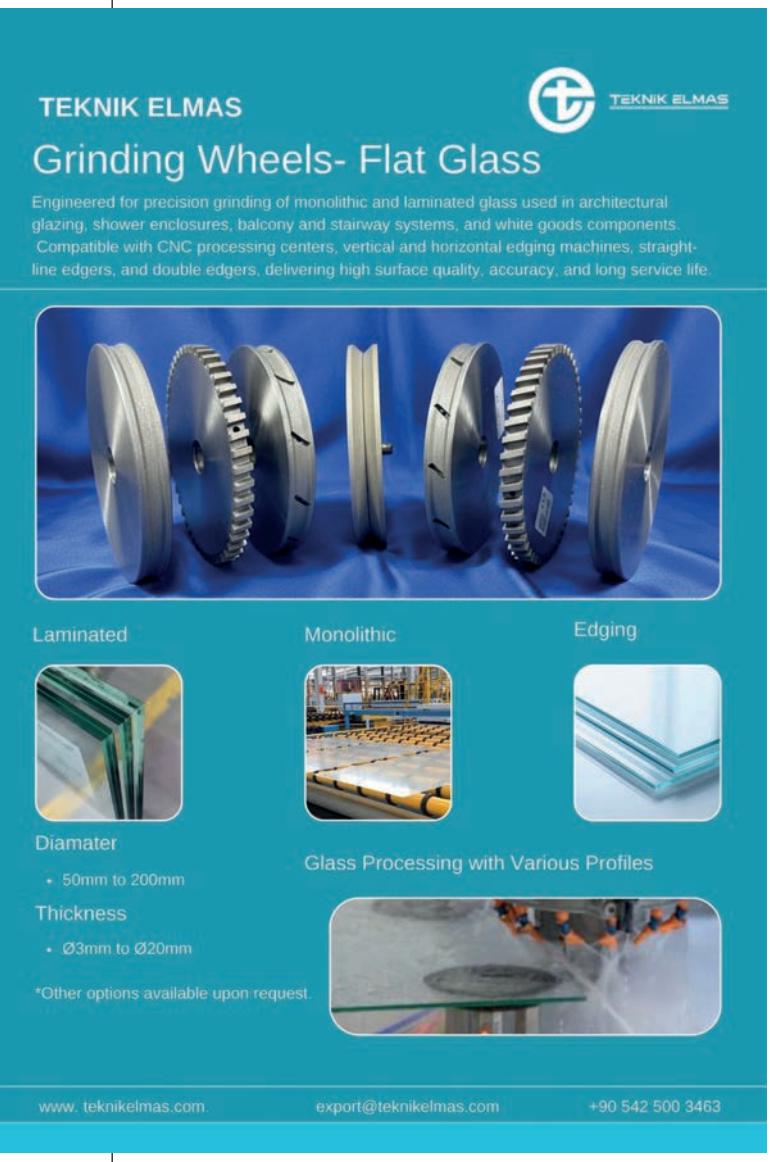
The Teknik Elmas PREMIUM Series grinding wheels are engineered to virtually eliminate prolonged break-in periods, inconsistent wear rates and excessive waste while delivering superior edge quality and consistent results.





trum of applications, each with its own strict performance parameters. The versatility of the Teknik Elmas PREMIUM Series makes it uniquely suited across multiple sectors:

- Automotive Glass Lines: demanding strict adherence to safety standards and flawless aesthetic finishes, automotive applications benefit immensely from the superior and flawless edge quality delivered by these stones.
- CNC Machining and Pencil Edge Profiles: high-speed operations require absolute harmony between tooling and machinery. The PREMIUM Series ensures full compatibility with machine design speeds, facilitating exceptionally smooth operations even at maximum RPM.
- Double-Edger Machines: Consistency across high-volume production is critical. Stable production technology ensures uniform wear and reli-



able output across batch runs.

- Solar Glass Lines: With the exponential growth of renewable energy infrastructure, solar glass requires pristine edge integrity to withstand environmental stressors. The PREMIUM Series achieves the desired superior edge quality effortlessly.

TRANSFORMING PLANT ECONOMICS: KEY ADVANTAGES

Investing in high-performance tooling yields ripples of positive financial and operational impacts throughout a manufacturing facility. By implementing the Teknik Elmas PREMIUM Series, plant managers can expect:

1. Noticeable Increase in Productivity: higher uptime and faster processing speeds maximize daily output.
2. Significant Reduction in Consumable Costs: extended tool life drastically cuts down annual tooling expenditure.
3. Maximum Production Efficiency: minimized machine downtime ensures smoother workflow integration.
4. Guaranteed Customer Satisfaction: consistently superior edge quality eliminates defects and reduces scrap rates.

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Glas Gasperlmair line highlights EDGETECH and LISEC collaboration

EDGETECH and LISEC technologies are meeting today at Glas Gasperlmair's Wagrain site - all in a new insulating glass line that's built around the redesigned FSA-A applicator for Super Spacer®. For structural glazing applications, the system improves spacer application, butyl consistency and corner sealing, as well as changeovers, large-format processing and automated flexible-spacer production reliability.

Glas Gasperlmair has invested in a new insulating glass line from LiSEC at its Wagrain site, with the redesigned FSA-A spacer applicator for processing Super Spacer® at the centre of the system. The line also includes further design development of the corner sealing unit, with both innovations aimed at increasing precision and process reliability in the automated processing of flexible spacers. For company founder Josef Gasperlmair, the precision of the application is one of the defining aspects of the new equipment. He describes the way Super Spacer® is applied with millimetre accuracy and always parallel to the glass edge as exceptional, calling the new applicator a great piece of equipment. The relationship between Glas Gasperlmair and LiSEC reaches back to 1975, when the Wagrain insulating glass manufacturer invested in its first glass washing machine from LiSEC. Since then, the company has continued to work





with LiSEC equipment and has acted as a pilot user on several occasions. Super Spacer® has also been part of the production setup for many years and is used on two of the company's five insulating glass lines. This long practical experience helped inform the design of the latest line for flexible spacers.

GREATER PROCESS RELIABILITY IN SPACER APPLICATION

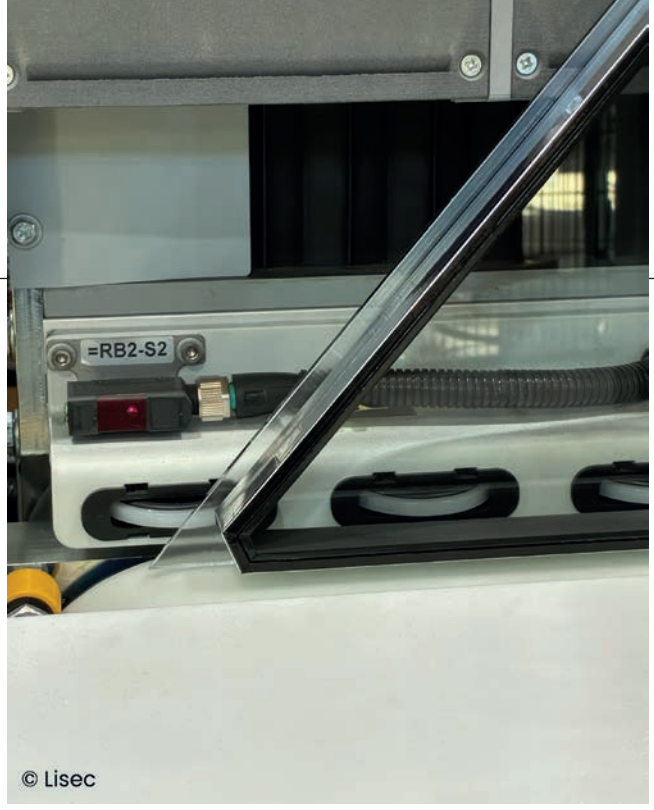
For LiSEC, flexible spacers show their strengths particularly in large façade elements, visually demanding constructions and units requiring increased inherent stability. Albert Haider, Product Manager at LiSEC Austria GmbH, says the key objective was to transfer those advantages reliably into production through more precise spacer application, consistent butyl application, simpler changeovers and greater flexibility for different spacer types. At Gasperlmair, process reliability begins with material preparation. The modular magazine holds six rolls of Super Spacer®, with up to eight possible in the maximum configuration. Under controlled climatic conditions, the material properties remain constant until processing. Two different spacer widths can be fed to the application head at the same time, reducing changeover times, particularly for triple insulating glass with different cavity widths. From the magazine, a caterpillar feed carries out the controlled transport of the flexible spacer. Length compensation supports exact positioning on the glass even at high cycle speeds. LiSEC has also developed a new solution for applying the primary seal. A gear pump conveys the butyl and meters it volumetrically, allowing a consistent butyl bead to be produced even during starting and stopping. The redesigned punching technology forms precise corners, while a continuously adjustable punching blade enables different angles for special shapes. These functions are central to the line's purpose: making flexible spacer processing more controlled, repeatable and adaptable to the demands of modern insulating glass production.

DESIGNED FOR STRUCTURAL GLAZING AND LARGE FORMATS

On the new line, Gasperlmair processes Super Spacer® T-Spacer™ SG with a height of 7.3 mm and widths ranging from 8 to 24 mm. Quanex Edgetech developed this spacer specifically for Structural Glazing and XXL insulating glass. The SG variant provides more surface area at the sides for PIB application, a factor that is particularly relevant for the gas tightness of the edge seal in Structural Glazing. Its geometry supports precise automated application and helps ensure that the spacer can be positioned parallel to the glass edge with tight tolerances, even in large multi-pane insulating glass units. The line is designed for glass formats up to 4,000 x 2,700 mm, glass thicknesses









of up to 32 mm and insulating glass units up to 100 mm thick. In addition to rectangular units, Super Spacer® can also be used to produce special shapes and three-sided stepped units.

A TIGHT SEAL AT THE BUTT JOINT TOO

Josef Gasperlmair commissioned his first insulating glass production line in 1974 and was again closely involved in the design of the new line. One area received particular attention: how to seal the spacer reliably at the start-stop point. At this point, the separating cut also interrupts the factory-applied barrier film of the Super Spacer®. The redesigned RTV-A-SC corner sealing unit therefore automatically seals the joint with butyl adhesive tape. For Gasperlmair, absolute tightness and durability are essential in the edge seal, and the butt joint must not become a weak point. The added sealing step is designed to keep the joint gas-tight and resistant to water vapour diffusion. The larger and heavier the glass formats become, the more demanding it is to guide the spacer parallel to the glass edge along its full length. This is the task addressed by the new applicator. Horst Matias, Area Manager DACH at Quanex, credits Josef and Dr Peter Gasperlmair for contributing their long experience with Super Spacer® to the development, and LiSEC for the constructive collaboration.





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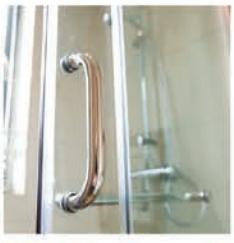
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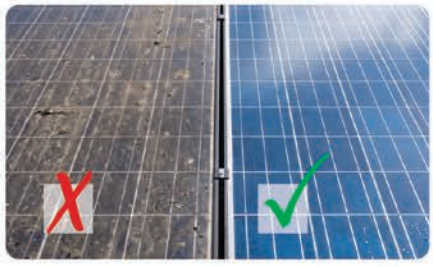
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For glass processors, SYNERGLASS Symbiose connects ERP functions with planning, production, optimisation, logistics, delivery follow-up, APIs, AI document analysis, shape modelling and operational add-ons - all to support centralised data, reduced manual re-encoding, improved reliability and more integrated, automated and open workflows across factories and teams.

CONNECTING THE GLASS INDUSTRY TO MAKE IT MORE AGILE, OPEN AND INTELLIGENT

For more than 30 years, Synerglass-Soft has developed software solutions for glass processing professionals. With Synerglass Symbiose, its industry-specific ERP, the company supports the digitalisation of processes from quotation to invoicing, including planning, production, optimisation, logistics and delivery follow-up.

AN ERP AT THE HEART OF AN OPEN ECOSYSTEM

Synerglass-Soft's vision now extends beyond a traditional ERP. The objective is to build an open digital ecosystem able to connect the factory, teams, customers, suppliers, machines and third-party applications around reliable, centralised and usable data. "Our ambition is clear: to make Synerglass Symbiose the connected heart of the glass processing factory, while giving each company the freedom to integrate the tools it needs," explains Jean-François Geys, CEO of Synerglass-Soft. In practical terms, Synerglass Symbiose centralises business data and can connect to other solutions, whether developed by Synerglass-Soft or by external providers, through easily integrable APIs. This allows glass processing companies to maintain a coherent environment while integrating mobile applications, customer portals, machine systems, accounting solutions, reporting tools or emerging technologies.



INNOVATION AS A DRIVER OF INTERNATIONAL GROWTH

In the same spirit, Synerglass-Soft continues to invest in new technologies. With SynerAI Transaction, the company is developing an artificial intelligence-based solution capable of analysing different types of documents and converting them into quotations or orders directly in the ERP. With SynerShape, it offers a shape modelling application that makes it possible to encode complex glasing units without relying on external CAD software, while keeping the data within the Synerglass environment. Together, these developments point to the same objective: reducing manual re-encoding, increasing data reliability and helping glass processors accelerate administrative and technical workflows without losing control of their business processes.

SOLUTIONS CONNECTED TO REAL OPERATIONAL NEEDS

The add-ons developed by Synerglass-Soft show how this ecosystem approach works in daily operations. SynerTracker facilitates the management and recovery of glass transport racks and equipment. SynerStock makes stock management more mobile and reliable. GlassID strengthens traceability and authentication for insulating glass units. MyGlass opens a quotation and ordering portal for glass processors' customers. SynerBO improves visibility on orders and deliveries. Each solution addresses a specific need, but its full value appears when it becomes part of a global, connected and coherent workflow. For glass processors, this means digital tools that are not isolated functions, but components of a broader operating environment. "Digitalisation should not add complexity. It should reduce double encoding, make information more reliable and help teams save time in their daily work," emphasises Peter Dixen, CRO of Synerglass-Soft. Driven by industry expertise and international growth ambitions, Synerglass-Soft aims to support glass processors in the next stage of their development: a more integrated, automated and open industry, ready to take advantage of tomorrow's technologies.

Synerglass-Soft will be at Glasstec 2026 in Hall 14, Stand A40.

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Workshop façades benefit from FINEO lightweight glazing performance

At Brussels' Kanal Centre Pompidou, FINEO vacuum glazing supports the conversion of the former Citroën garage with 2,280 units across nearly 3,900 m², preserving steel façades while improving energy efficiency, acoustics and comfort through Workshop refurbishment and Showroom reconstruction - all in Belgium's modernist industrial landmark complex.

With some 2,280 FINEO vacuum glazing units installed across nearly 3,900 square metres of façade surface, the conversion of the former Citroën garage in Brussels into Kanal – Centre Pompidou ranks among the largest projects in the history of FINEO by AGC. The transformation of the industrial complex into a new centre for art, architecture and public life required a careful balance: preserving



the historic steel façades and their appearance while significantly improving energy efficiency, acoustics and user comfort.

The building's industrial character goes back to the early 1930s, when it was constructed for the Belgian branch of Citroën. For André Citroën, such buildings were not merely places of sale, but expressions of the brand itself. On the Brussels-Charleroi canal, steel, concrete and glass were brought together in a striking composition. The 25-metre-high glazed Showroom presented vehicles toward the city, while several Workshop halls extended behind it. Together they formed what was then the largest garage in Europe and what is now regarded as one of Belgium's most significant examples of modernist industrial architecture.

After Citroën moved out in 2014, the buildings remained empty for several years. In 2017, the Brussels region launched an international architecture competition for their conversion. The winning proposal came from Atelier Kanal architects, a consortium comprising noAarchitecten from Brussels, EM2N from Zurich and Sergison Bates architects from London.



EXISTING FABRIC AS A RESOURCE

Under the guiding idea 'A Stage for Brussels', the architects developed a design that treats the former Citroën garage not simply as a shell for a museum, but as a public space for the city. Rather than covering the existing fabric with a new architectural layer, the building itself became the starting point for the transformation. "We wanted to retain as many of the qualities that were already present in the building as possible," says project architect Arabella El Ginawy. Three functional volumes were inserted into the existing structure, while the historic halls, ramps and circulation routes remain part of the visitor experience. To meet the environmental requirements of a modern museum, the climate-controlled exhibition spaces were accommodated inside these new volumes. The former Workshop, by contrast, was conceived as an intermediate zone with natural ventilation. Commissioned by Fondation Kanal, a construction consortium of BPC and CIT Blaton was appointed to carry out the project.

ABOUT AGC

AGC Glass Europe is a manufacturer, processor and distributor of flat glass for use in the construction industry (exterior glazing and interior decoration), the automotive industry (original equipment manufacturing and replacement glass) and other industries, including transportation, solar energy and high technology. It is part of AGC's European branch, which is the world's leading manufacturer of flat glass, with over 100 locations and around 13,000 employees across Europe.

HISTORIC STEEL FAÇADES SET NARROW LIMITS ON GLAZING CHOICE

For the building's new use, the glazing had to deliver a substantial improvement in thermal and acoustic performance while preserving the visual character of the historic façades. The original drawn single glazing was partly damaged, no longer airtight and acoustically inadequate.

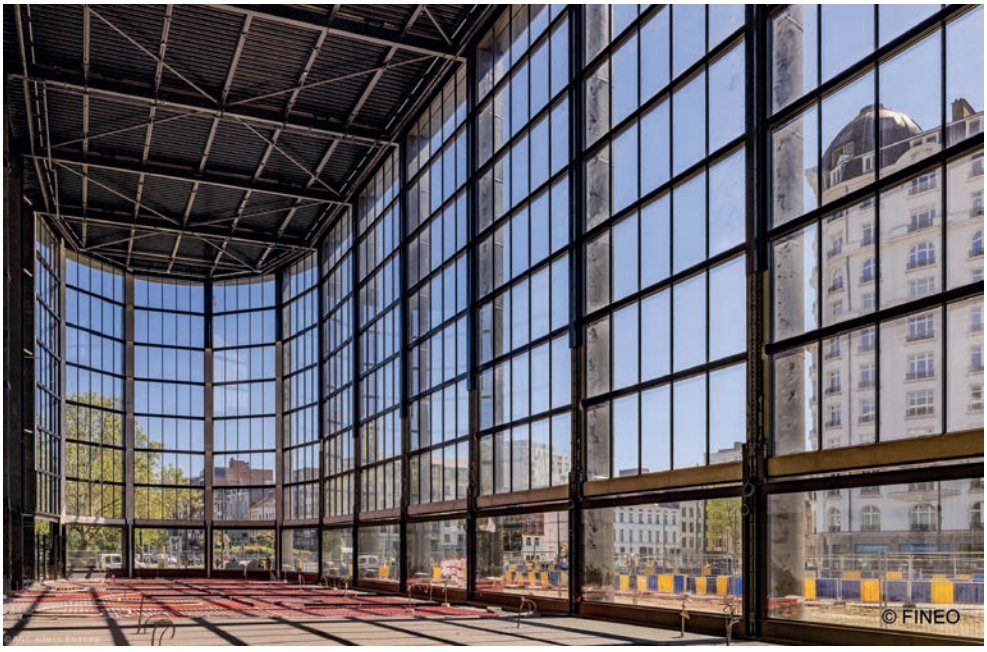
Stephanie Mangé, co-founder of Gevelinzicht Ingenieur-Architecten, served as façade engineer and building physicist on the project. Together with the design team, she examined various glazing options in close cooperation with Lootens, the Belgian specialist in steel and aluminium façades, and AGC Glass Europe.

Coated single laminated glazing, conventional insulating glass units, heritage insulating glass and vacuum glazing products with visible evacuation ports were all assessed. The historic steel profiles, however, placed strict constraints on the choice of glazing. Built from welded L- and T-profiles, the frames had originally been designed for single glazing and offered a glass rebate depth of only 4 and 5.5 centimetres. Decades of deformation further complicated the task, leaving hardly any pane field exactly rectangular.

As a result, coated single glazing could not meet the comfort and acoustic requirements, while conventional insulating glass units could not be accommodated within the shallow rebates of the existing profiles. Because of the exposed canal-side location, a structural wind load analysis was also carried out. It established a minimum requirement for single glazing: an increase in glass thickness from 4 to 8 mm, together with localised reinforcement of the more heavily wind-loaded sections of the frames. "FINEO came onto the radar early in the study phase," explains Mangé. "Although the glazing was still relatively innovative at the time, the question of condensation risk immediately arose, given the use of highly insulating glazing in thermally non-broken steel profiles. Thermal and dynamic simulations demonstrated a limited risk and a favorable effect on the indoor climate, which ultimately convinced the client and us to proceed."

For the design team, FINEO became the only solution able to reconcile the project's central objectives. "We wanted to preserve the slender steel profiles, retain the exceptional transparency of the historic façade, and at the same time significantly improve energy performance. Alternative glazing systems could not meet these requirements in the same way," El Ginawy explains. "Pairing this newly developed glazing with 1930s steel felt like uncharted territory, a genuinely new way of building with glass."

The selected product was FINEO 10 with low-iron Clearvision glass, a Ug value of 0.8 W/(m²K) and a total thickness of 9.7 mm. Its slim construction, without visible evacuation port, preserves the appearance of single



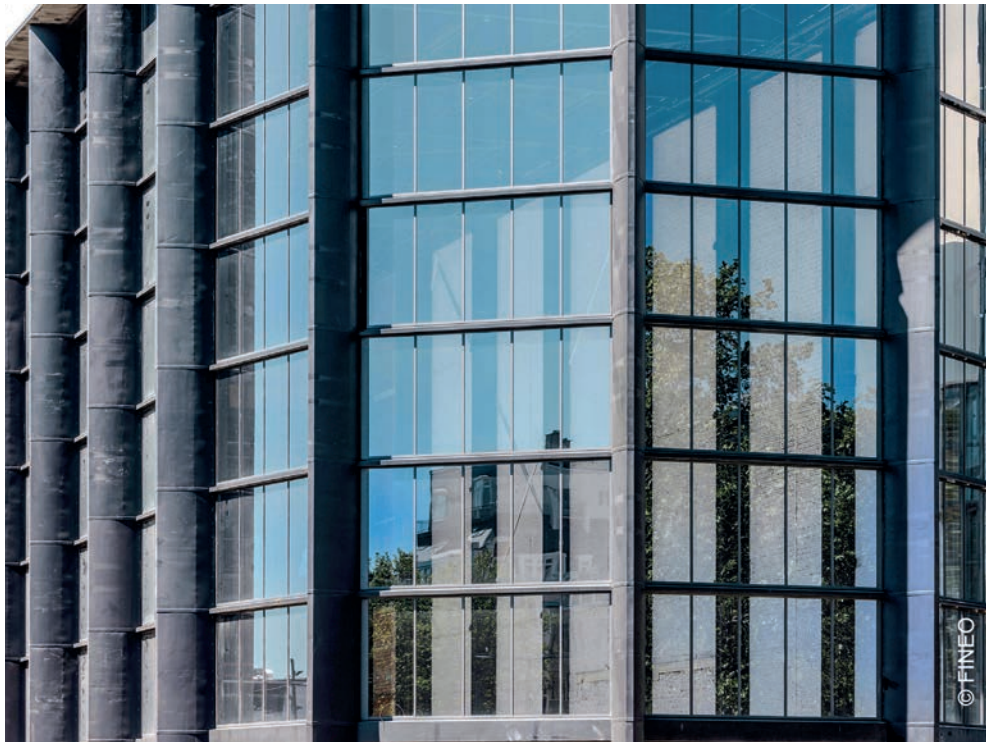
ABOUT FINEO

FINEO by AGC is the latest generation of insulating glass, combining an ultra-slim design with exceptional thermal and acoustic insulation properties.
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glazing. The Ug value was slightly higher than standard FINEO, at Ug = 0.7 W/m²K, but the planning team accepted this because the low-iron glass provided high daylight transmission and a more neutral appearance. Extensive mock-up testing was carried out with the design team, façade specialists and AGC Glass Europe, during which different glazing and coating solutions were evaluated before the final specification was chosen.

Acoustics were another demanding aspect of the project. During measurements before renovation, individual panes shattered under the sound load from loudspeakers, while the building's location directly beside a heavily trafficked road added further challenges. Kahle Acoustics developed a concept to shield the interior from traffic noise and prevent events inside the building from disturbing the immediate neighbourhood.

"FINEO is a thin, lightweight glazing with high sound insulation performance that also looks elegant. On the façades most exposed to noise, we further optimized the construction with perimeter acoustic seals to meet the acoustic requirements," says Vincent Berrier, acoustician at Kahle Acoustics.



1,400 PANES, ALMOST EVERY ONE UNIQUE

The condition of the glazing and steel profiles ruled out the original plan to refurbish the Workshop façades in situ. The façade elements were removed, restored off site and then reinstalled for reglazing.

No comparable reference project existed at this scale, so the project team entered largely uncharted territory. The chosen glazing solution required adaptations to the existing glazing rebate, and a project-specific fixing system was developed and tested at Ghent University for air and watertightness as well as thermal properties.

CIT Blaton, together with the design team, refined the execution details. "The final solution is based on a continuous glazing bead and a corner joint that absorbs the deformations and tolerances of the historic construction," says Sergio Costantini, responsible for structural design at CIT Blaton. Mangé adds that stainless steel glazing beads were used to reduce condensation risk, while the glazing rebate was filled with foam tape, also required for acoustic performance. At the lower detail, drainage was provided for any condensation.

AGC Mirodan Bouwglas carried out the installation of the new glazing in the Workshop façades. Around 1,400 FINEO panes were used across some 2,200 square



metres of façade area. Diagonal deviations of more than three centimetres and highly variable pane dimensions meant that almost every pane field was unique. Pane widths ranged from 1,005 to 1,340 mm and heights from 1,250 to 1,300 mm.

Precise measurement, precise manufacturing and project-specific placing guidelines were essential. "Not a single pane had to be remanufactured because of incorrect dimensions," reports managing director Sven Delaere. The installation work was demanding, but the comparatively low weight of the FINEO panes, around 50 kg, considerably eased the process. "Combined with strong thermal and acoustic performance, this makes vacuum glazing the glass of the future," says Delaere.

A THERMALLY BROKEN FAÇADE PROFILE FOR THE SHOWROOM

The iconic Showroom presented different boundary conditions from the Workshop façades. Architecturally, as the highly visible signature element of the former Citroën garage, it was to become once again the transparent "cathedral of steel, glass and light" originally envisaged.

"The Showroom façade is in fact a reconstruction. The window sections were designed based on old archive photographs and drawings, as the original windows were no longer present," explains Mangé. While the historic steel columns from 1934 were retained, the transoms were renewed as part of the current project.

"As one of the most important public spaces within the building complex, the Showroom placed considerably higher demands on the building envelope," says Ron Jacobs of Jansen AG. It therefore received a new façade construction using the thermally broken steel profile system Janisol Arte 66 in combination with FINEO 10 Clearvision.

Around 530 vacuum glazing units measuring roughly 1.05 × 2.10 metres were installed across some 1,160 square metres of façade area, fitting into the characteristic grid structure of the historic Showroom. Further FINEO units were installed in the Annex adjacent to the Showroom and in the Rassembleur, a transitional façade linking the Workshop façades to the rest of the complex.

After the early planning phase, Lootens further developed the façade solution, adding fabrication and installation details as well as several project-specific solutions. These included vertical sliding elements on the ground floor, up to six metres wide. "For us architects, these windows are crucial," adds El Ginawy. "They open the building to the public and create a continuity of the urban fabric."

PRESERVING THE PAST, BUILDING FOR THE FUTURE

Despite their differences, the façade solutions for the Workshop and the Showroom follow the same underlying idea. Rather than replacing the existing structures outright, as much of the existing fabric as possible was retained and upgraded.

According to calculations by Gevelinzicht Ingenieur-Architecten, reusing the Workshop façades alone avoided around 61,000 kg of CO_2 equivalent. A new curtain wall façade would have been easier to implement and, in some respects, more economical, but it would also have drastically altered the architectural integrity of the building.

The fact that FINEO is produced in Belgium also played a role. Short transport routes, compliance with Belgian regulations and a reduced environmental footprint all supported the choice of locally manufactured vacuum glazing.

"Kanal demonstrates that historic façades can not only be preserved but also adapted to the requirements of modern buildings. The combination of preserving the existing fabric, energy efficiency, exploitation budget and user comfort would hardly have been conceivable in this form just a few years ago. What impressed me most was the collaboration between everyone involved. From the first design to installation – client, architects, engineers, façade contractors and glass specialists worked together on a single solution. We are proud that FINEO was able to make an important contribution to the success of this extraordinary project," says Stefan Lips, Sales Director Europe at FINEO.

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Biesse Group
Bovone
CMS
Lovati
Teknik Elmas
Tesir Makine

STRAIGHT-EDGE ENGRAVING MACHINES

Bavelloni
Biesse Group
Bottero
CMS
Litros
SKG - Skill Glass
Teknik Elmas

SHAPED GLASS ENGRAVING MACHINES

Bavelloni
Biesse Group
Bottero
CMS
Lovati
Teknik Elmas
Tesir Makine

CORNER GRINDING MACHINES

Adelio Lattuada
B Solution
Bavelloni
Biesse Group
CMS
Litros
Lovati
SGM - Special Glass Machinery
SKG - Skill Glass
Teknik Elmas
Tesir Makine

SHAPED GLASS GRINDING MACHINES

Adelio Lattuada
Bando Kiko
Bavelloni
Biesse Group
Bottero
CMS
Forel
Glass Company
Litros
Lovati
Systron
Teknik Elmas
Tesir Makine

BELT GRINDING MACHINES

Adelio Lattuada
Best Makina
Fenzi
IOCCO Group
Litros

LATHES - VERTICAL AND HORIZONTAL

CMS
Fenzi
Teknik Elmas
Tesir Makine

EMBOSSING MACHINES

CMS
Fenzi

PORTABL E MACHINES

Fenzi
Helios Quartz

DIAMOND TOOLS

Adelio Lattuada
ADI - Surface Group
Bando Kiko
Bovone
Bottero
Diamut - Biesse
DK Holdings Limited
Fenzi
Glaston Group
Litros
Marrose Abrasives
Mole Moreschi
Neptun
Schiavo
Si.Ste Trading
Talamoni
Teknik Elmas
Vetrolux

DIAMOND BELTS

Mole Moreschi

SEAMING LINES

Best Makina

POLISHING WHEELS

Adelio Lattuada
ADI - Surface Group
Bando Kiko
Bovone
Diamut - Biesse
DK Holdings Limited
Dogo
Fenzi
Glaston Group
Italmole
Litros
Marrose Abrasives
Mole Moreschi
RBM Italia - Surface Group
Schiavo
Si.Ste Trading
Teknik Elmas

POLISHING AGENTS ÌAND OXIDES

ADI - Surface Group
Bovone
Fenzi
Litros
Schiavo
Si.Ste Trading
Teknik Elmas

POLISHING BELTS

Fenzi
Litros
Schiavo
Si.Ste Trading

COOLANTS

Adelio Lattuada
Bovone
Fenzi
Litros
Schiavo
Si.Ste Trading

GLASS GRINDING AND BEVELLING COOLANTS

Litros
Schiavo
Si.Ste Trading
Teknik Elmas

SEPARATORS FOR GLASS-SOLIDS

Dieffe Macchine
Filtraglass
Immmes
Schiavo
Vitrosep

ACCESSORIES

ADI - Surface Group
CMS
Fenzi
Helios Quartz
IOCCO Group
Mole Moreschi
Schiavo
Schiatti Angelo
Si.Ste Trading
Teknik Elmas

Washing

HORIZONTAL WASHING MACHINES

Bando Kiko
Bavelloni
Best Makina
Bovone
ECOL
Emar
Forel
Glass Company
Glaston Group
GPM Automation
IOCCO Group
Itech
Lisec Group
Litros
Neptun
Schiavo
SGM - Special Glass Machinery
Tecglass
Triulzi

VERTICAL WASHING MACHINES

Adelio Lattuada
Bavelloni
Best Makina
Emar
ECOL
Forel
Glass Company
Glaston Group
GPM Automation
IOCCO Group
Itech
Lisec Group
Neptun
Schiavo
SGM - Special Glass Machinery
Stefiglass
Systron
North Glass Technology

Tecglass
Teknik Elmas
Tesir Makine
Triulzi

WASHING MACHINES FOR AUTOMOTIVE GLASS

Bando Kiko
ECOL
Glaston Group
IOCCO Group
Tecglass
Tesir Makine
Triulzi

WASHING PURIFICATION SYSTEMS

Best Makina
Dieffe Macchine
Emar
Forel
Glass Company
Glaston Group
Immmes
IOCCO Group
Itech
Litros
Schiavo

LIQUID WASHING CONCENTRATES

Schiavo
Si.Ste Trading

ACCESSORIES

Helios Quartz
Emar
Idrotecnica
Litros
Neptun
Schiavo

Mirror production

COMPLETE PLANTS & CONVEYORS FOR MIRROR PRODUCTION

Bovone
IOCCO Group
Triulzi

PAINTING EQUIPMENT

Fenzi
IOCCO Group
Triulzi

DRYING OVENS

Bovone
CMS

AUTOMOTIVE MIRROR BENDING FURNACES

Bovone
Marposs
Tecnosens

MANUAL SILVER-SPRAYING EQUIPMENT

Fenzi
Glass Company

PAINTS AND CHEMICAL PRODUCTS

Fenzi

ACCESSORIES

Fenzi
Helios Quartz

Insulating glass

COMPLETE INSULATING GLASS LINES

Bavelloni
Best Makina
Emar
Forel
Glass Company
Glaston Group
Itech
Litros
Marval
Neptun
Schiavo
SGM - Special Glass Machinery
Thermoseal Group
Triulzi

AUTOMATIC SEALING LINES

Bavelloni
Best Makina
Easy Automation
Emar
Forel
Glaston Group
Itech
Lisec Group
Litros
Marval
Teknik Elmas
Tesir Makine

AUTOMATIC SPACER BENDING MACHINES

Bavelloni
Best Makina
Emar
Fenzi
Forel
Glaston Group
IOCCO Group
Lisec Group
Marval
Schiavo
Thermoseal Group

DESICCANT SALT FILLING MACHINES

Bavelloni
Best Makina
Emar
Fenzi
Forel
Glaston Group
Itech
Lisec Group
Marval
Neptun
Schiavo
Thermoseal Group
Triulzi

SPACER CUTTING SAWS

Bavelloni
Best Makina
Emar
Fenzi
Forel
Itech
Lisec Group
Marval
Neptun
Schiavo
Tesir Makine
Thermoseal Group

BUTYL EXTRUDERS

Bavelloni
Best Makina
Emar
Forel
Glaston Group
Itech
Lisec Group
Marval
Neptun
Schiavo
Thermoseal Group
Triulzi

HOT-MELT EXTRUDERS

Bavelloni
Best Makina
Easy Automation
Emar
Fenzi
Forel
Itech
Lisec Group
Marval
Neptun
Schiavo
Thermoseal Group
Triulzi

POLYURETHANE EXTRUDERS

Bavelloni
Best Makina
Easy Automation
Emar
Fenzi
Forel
Glaston Group
Itech
Lisec Group
Marval
Schiavo

POLYURETHANE ENCAPSULATION

Emar
Glaston Group
Lisec Group
Marval
Schiavo

SILICONE EXTRUDERS

Best Makina
Emar
Fenzi
Forel
Glaston Group
Itech
Lisec Group
Marval
Schiavo
Triulzi

POLYSULPHIDE SEALANT EXTRUDERS

Best Makina
Emar
Fenzi
Forel
Glaston Group
Itech
Lisec Group
Marval
Schiavo
Triulzi

GAS FILLING EQUIPMENT

Emar
Fenzi
Forel
Glaston Group
Itech
Lisec Group
Litros
Marval
Neptun
Schiavo
Sparklike
Thermoseal Group

DESICCANT SALTS

Emar
Fenzi
Litros
Neptun
Schiavo
Thermoseal Group

SPACERS/PROFILES

Edgetech Europe
Fenzi
Litros
Schiavo
Thermoseal Group

GEORGIAN BARS

Hegla
Thermoseal Group

BUTYL

Fenzi
Litros
Thermoseal Group

POLYSULPHIDE SEALANTS

Fenzi
Litros

HOT MELT

Fenzi
Litros
Thermoseal Group

OTHER SEALANTS

Fenzi

PANTOGRAPHS

Fratelli Pezza

ACCESSORIES

Deltamax Automazione
Forel
Helios Quartz
Litros
Schiavo
Si.Ste Trading
Sparklike
Tesir Makine
Triulzi

Tempering

TEMPERING FURNACES (ARCHITECTURAL GLASS)

Glass Company
Glasstech Inc.
Glaston Group
Pujol Group
Jinglass
Keraglass
Landglass Technology
Lisec Group
Luoyang Fuchong Machinery
Mappi International
Marposs
North Glass Technology
Schiavo
Tecnosens
TK
Tekno Kilns/Pujol
Texpack

TEMPERING FURNACES (AUTOMOTIVE GLASS)

Glass Company
Glasstech Inc.
Glaston Group
Jinglass
Keraglass
Landglass Technology
Luoyang Fuchong Machinery
Mappi International
Marposs
Mazzaroppi Engineering
North Glass Technology
Satinal
Taifin
Tecnosens
Texpack

CHEMICAL TEMPERING EQUIPMENT

Glass Company
R.C.N. Solutions
TK

ROBOT FOR CLEANING SILICA ROLLERS

Eurotech Way

ACCESSORIES

Deltamax Automazione
Fenzi
Glass Company
Glaston Group
Helios Quartz
Pujol Group
Keraglass
Landglass Technology
Mappi International
Mazzaroppi Engineering
R.C.N. Solutions
Satinal
Taifin
Tekno Kilns/Pujol
Torgauer Maschinenbau

Bending

BENDING FURNACES (ARCHITECTURAL GLASS)

Pujol Group
Jinglass
Keraglass
Luoyang Fuchong Machinery
Mappi International
Marposs
Mazzaroppi Engineering
R.C.N. Solutions
Tecnosens
Tekno Kilns/Pujol
TK
Texpack

BENDING FURNACES (AUTOMOTIVE GLASS)

Glass Company
Glasstech Inc.
Glaston Group
Jinglass
Keraglass
Luoyang Fuchong Machinery
Mappi International
Marposs
Mazzaroppi Engineering
R.C.N. Solutions
TK
Taifin
Tecnosens
Texpack

ACCESSORIES

Ayrox
Deltamax Automazione
Glass Company
Glasstech Inc.
Glaston Group
Pujol Group
Itech
Keraglass
Mappi International
Satinal
Softeco
Tekno Kilns/Pujol
TK

Laminated glass production

COMPLETE PLANTS

Best Makina
Bovone
Bottero
Forel
Glass Company
Glaston Group
GPM Automation
Pujol Group
IOCCO Group
Italmatic
Lisec Group
Mazzaroppi Engineering
R.C.N. Solutions
Texpack
TK
Triulzi

LAMINATED ÌWINDSCREEN BENDING FURNACES

ECOL
Glass Company
Glasstech Inc.
Glaston Group
Keraglass
Mappi International
Marposs
Taifin
Texpack

AUTOCLAVES

Glass Company
Glaston Group
GPM Automation
Pujol Group
Italmatic
Lisec Group
Triulzi

CLIMATIC CABINS

Forel
Glaston Group
GPM Automation
IOCCO Group
Lisec Group
Triulzi

INFRARED OVENS

ECOL
Forel
Glass Company
Glaston Group
GPM Automation
Pujol Group
IOCCO Group
Lisec Group
TK
Triulzi

MANGLES

GPM Automation

PRESSES/BENDING MACHINES

Forel
IOCCO Group
Lisec Group
Triulzi

RESIN LAMINATING MATERIALS AND EQUIPMENT

IOCCO Group
Satinal
Teknik Elmas
Torgauer Maschinenbau

EVA (ETHYLENE VINYL ACETATE)

Evalam
Satinal
Si.Ste Trading
Tecnosens
Unelko

PVB

Everlam
Kuraray - Trosifol
Marposs
Si.Ste Trading
Tecnosens

PVB - SHAPING AND CUTTING EQUIPMENT

Ayrox
ECOL
Forel
Glaston Group
GPM Automation
IOCCO Group
Lisec Group
Softeco

PVB - WIRING TECHNOLOGY FOR HEATABLE LAMINATES

Ayrox
Easy Automation
ECOL
Softeco

ACCESSORIES

Ayrox
Bottero
Deltamax Automazione
Eurotech Way
Glaston Group
Helios Quartz
Pujol Group
IOCCO Group
Lisec Group
Satinal
Si.Ste Trading
Softeco
Taifin
Triulzi

Drilling

AUTOMATIC DRILLING LINES

B Solution
Bando Kiko
Bavelloni
Biesse Group
Glaston Group
IOCCO Group
Litros
Neptun
Schiatti Angelo
SKG - Skill Glass
Systron
Teknik Elmas
Tesir Makine
Vismara

MULTI-SPINDLE DRILLING MACHINES

B Solution
Bando Kiko
Bavelloni
Biesse Group
CMS
Glass Company
Glaston Group
IOCCO Group
Litros
Neptun
Schiavo
Schiatti Angelo
SKG - Skill Glass
Systron
Teknik Elmas
Tesir Makine
Vismara

DRILLING MACHINES WITH OPPOSITE DRILLING HEADS

B Solution
Bando Kiko
Bavelloni
Bottero
CMS
Fenzi
Glaston Group
IOCCO Group
Litros
Lovati
Neptun
Schiavo
Schiatti Angelo
SKG - Skill Glass
Systron
Teknik Elmas
Tesir Makine
Vismara

COLUMN DRILLING MACHINES

B Solution
Bottero
Fenzi
Neptun
Schiavo
Tesir Makine
Vismara

PORTABLE DRILLING MACHINES

CMS
Fenzi
Schiavo
Si.Ste Trading
Teknik Elmas
Tesir Makine

DRILLING AND MILLING MACHINES

Bavelloni
Bottero
Biesse Group
CMS
IOCCO Group
Lovati
Neptun
Schiavo
Teknik Elmas
Tesir Makine
Vismara

DIAMOND DRILLS

ADI - Surface Group
Bovone
Diamut - Biesse
DK Holdings Limited
Fenzi
Glaston Group
Litros
Mole Moreschi
Neptun
Schiavo
Si.Ste Trading
Teknik Elmas
Tesir Makine
Vetrolux

ACCESSORIES

CMS
Fenzi
Litros
Neptun
Schiavo
Si.Ste Trading
Teknik Elmas

Other equipment and plants

TURNKEY PLANTS / ENGINEERING - FOR BUILDING GLASS

Bando Kiko
Biesse Group
Bottero
Cugher Glass
Glaston Group
Horn
IOCCO Group
Keraglass
Lisec Group
Marposs
Torgauer Maschinenbau

TURNKEY PLANTS / ENGINEERING - FOR AUTOMOTIVE GLASS

Bando Kiko
Biesse Group
Bottero
Cugher Glass
Easy Automation
Horn
Glaston Group
IOCCO Group
Marposs

KEY PLANTS / ENGINEERING - FOR DISPLAY GLASS

Bando Kiko
Cugher Glass
Marposs
Torgauer Maschinenbau

EDGES ROLLER COATING MACHINE

Eurotech Way

WORK CENTRES - CNC CONTROLLED

Bando Kiko
Bavelloni
Biesse Group
Bottero
Glass Company
Glasstech Inc.
Glaston Group
Hegla
Litros
Neptun
SKG - Skill Glass
Systron

FLOAT PLANTS/ LINES (EQUIPMENT & ACCESSORIES)

Bovone
Horn
IOCCO Group

CULLET HANDLING SYSTEMS

ECOL

COMPLETE BATCH PLANTS

Zippe

VACUUM COATING EQUIPMENT AND PLANTS

Giardina Group Glass Division
Glass Company
North Glass Technology
Unelko

ENAMELLING EQUIPMENT AND PLANTS

Giardina Group Glass Division
Glass Company
Rollmac division of GeMaTa

DRYERS AND ENAMELING FURNACES

Giardina Group Glass Division
Tecglass

SPRAYING TECHNOLOGY

Giardina Group Glass Division

HOT- AND COLD-END COATING SYSTEMS AND MATERIALS (CVD, ROLLERS, CURTAIN COATERS)

Giardina Group Glass Division

SANDBLASTING SYSTEMS, EQUIPMENT AND PLANTS - OPTIMIZERS

Fenzi
Fratelli Pezza
Glass Company
Litros
Schiavo
SKG - Skill Glass

DIGITAL INKJET PRINTERS

Glass Company
System Ceramics

Tecglass
TecnoFerrari

SCREEN PRINTING EQUIPMENT AND PLANTS

Ayrox
COMSS
Cugher Glass
Deltamax Automazione
ECOL
Eurotech Way
Glass Company
Keraglass
North Glass Technology
Rollmac division of GeMaTa
Softeco Softeco
Studio 1 Automazioni
TecnoFerrari

SCREEN PRINTING FRAMES

COMSS

SCREEN PRINTING DRYING SYSTEMS

COMSS
Cugher Glass
Glass Company
Rollmac division of GeMaTa
Studio 1 Automazioni

EDGES ROLLER COATING MACHINE

Giardina Group Glass Division

ACIDING GLASS EQUIPMENT AND PLANTS

Lisec Group
Rollmac division of GeMaTa

LASER DECORATING MACHINES

Glass Company

Artistic glass production

CERMAMIC INKS

Glass Company
Tecglass

CHAMBER ELECTRIC KILNS

Glass Company
Keraglass
Tekno Kilns/Pujol

ACCESSORIES

Deltamax Automazione
Helios Quartz
TK

Miscellaneous

ADHESIVES FOR GLASS BONDING

Si.Ste Trading

AUTOMATION

Anhui Yinrui glass machinery
Easy Automation
Horn
IOCCO Group
Marposs
Studio 1 Automazioni
Tecnosens
Torgauer Maschinenbau
Zippe

AUTOMOTIVE GLASS APPROVAL SERVICES

Ayrox
Marposs
Softeco
Tecnosens
Teknik Elmas

AUTOMOTIVE GLASS QUALITY CONTROL

Ayrox
Bando Kiko
Cugher Glass
Deltamax Automazione
Glaston Group
IOCCO Group
Marposs
Softeco
Tecnosens

CE MARKING - QUALITY CONTROL EQUIPMENT FOR GLASS IN BUILDING

Ayrox
Softeco

COLOURS & ENAMELS - OTHER APPLICATIONS

Ayrox

CUTTERS

DK Holdings Limited
Si.Ste Trading

CUTTERS WHEELS

DK Holdings Limited
Si.Ste Trading

DEIONIZING AND WATER SOFTENING EQUIPMENT

Fenzi
Forel
Glass Company
Idrotecnica
Itech
Lisec Group
Triulzi

DEIONIZING AND WATER SOFTENING EQUIPMENT

Immmes

DIAMOND ROUTER EQUIPMET - PORTABLE

Teknik Elmas
Tesir Makine

DISTRIBUTORS

Si.Ste Trading

FLAT GLASS QUALITY CONTROL DEVICES

Ayrox
Deltamax Automazione
Forel
IOCCO Group
Marposs
Softeco
Tecnosens

FURNACES

Glass Company
Horn
Texpack

FURNACES / HYDROGEN GENERATORS (WATER ELECTROLYSERS)

Nel Hydrogen

GLASS COATING AND TINTING

Glass Company
Rollmac division of GeMaTa
Unelko

GLASS TREATMENT FILMS

Glass Company

HEATING EQUIPMENT - STANDARD (GAS FIRING, BURNERS, AIR GAS MIXERS, SAFETY DEVICES, ELECTRICAL RESISTORS)

Horn
Keraglass
Texpack

INSPECTION INSTRUMENTS & INTENSIMETERS

Marposs
Tecnosens

INFRARED TUBES

Helios Quartz
Deltamax Automazione

KILNS

Glass Company
Keraglass
Lisec Group
Tekno Kilns/Pujol
TK
Fenzi

METAL ACCESSORIES

Si.Ste Trading
Teknik Elmas
Tesir Makine

METALLIC SECTIONS

Fenzi
Tesir Makine

NUMERICAL CONTROL SYSTEM (CNC) FOR ALL GLASS PROCESSING MACHINES

Glass Company
IOCCO Group
Prodim

OPTICAL DISTORTION ANALYSERS FOR AUTOMOTIVE GLASS

IOCCO Group
Keraglass
Tecnosens

OPTICAL INFRARED THERMOMETERS

Optris GMBH

POWDER OR LIQUID APPLICATION SYSTEMS FOR PROTECTING FLOAT GLASS

Cugher Glass
Glass Company

PUMPING AND APPLICATION SYSTEMS (AUTOMOTIVE GLASS)

IOCCO Group

PURIFIERS FOR REFLUENT WATER

Dieffe Macchine
Immmes

PUTTIES AND SEALANTS

Fenzi

QUARTZ EQUIPMENT

Helios Quartz

REFRACTORIES

Rath

SHAPE CHECKING DEVICES

Easy Automation
IOCCO Group

SHOWER ENCLOSURES

Si.Ste Trading
Vismara

SIC HEATERS

Helios Quartz

SOFTWARE DATABASE, PROPERTY PREDICTOR

Litros

SUPPLIERS GUIDE Yellow Pages

SOFTWARE SYSTEMS FOR PRODUCTION CONTROL

A+W Software
CMS
Cugher Glass
Deltamax Automazione
Edgetech Europe
Forel
Lisec Group
Litros
Optima
Prodim

SOLDERING EQUIPMENT FOR ELECTRICAL CONNECTORS FOR WINDSCREENS AND BACKLITES

Ayrox
Easy Automation
Softeco

SORTING SYSTEMS

Glaston Group
GPM Automation
Lisec Group
Studio 1 Automazioni

SURFACE STRESS MEASUREMENT INSTRUMENT

Ayrox
Glass Company
Tecnosens

WINDSCREEN STRESS MEASUREMENT INSTRUMENT

Tecnosens

WINDSCREEN AND BACKLITES

Marposs
Tecnosens

TESTING FOR SOLDERINGS

Ayrox
Easy Automation
Softeco

TESTING DEVICES OF BACKLITES ELECTRICAL HEATING

Ayrox
Easy Automation
Softeco

THERMAL IMAGING MSYSTEMS

Glass Company
Easy Automation
Optris GMBH

TIN FLOAT BATH FURNACES

Horn
IOCCO Group

TIN FLOAT BATH SIDE DETECTION DEVICES

Tecnosens

UV ADHESIVES

Si.Ste Trading

UV LAMPS

Helios Quartz

UV PORTA BLE MACHINES

Helios Quartz

WATER REPELLENT SPRAY COATING MACHINES

Best Makina

glassOnline
click here

FLATGLASS 2026 world directory

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www.glassOnline.com
The World's Leading Glass Industry Website

WINDOW Eurasia & DOOR Eurasia

SPECIAL SECTION
Aluminium Profile, Facade Systems and Accessories

SPECIAL SECTION
Shading, Protection and Closure Systems

SPECIAL SECTION
Door, Shutter, Access Control Systems, Lock and Accessories

27th International Window, Door, Shutter, Facade Systems and Accessories, Profile, Production Technologies and Machinery, Insulation Materials, Raw Materials and Complementary Products Fair

ufi The Global Association of the Exhibition Industry

GLASS Eurasia

16th International Glass Products and Applications, Production - Processing Technologies and Machinery, Complementary Products and Chemicals Fair

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November 21 - 24, 2026

Saturday - Tuesday

REPUBLIC OF TURKEY MINISTRY OF TRADE · PUKAD · PUKAB · GALSİAD · WinART · ALUSART · RX · TÜYAP

TÜYAP FAIR & CONGRESS CENTER ISTANBUL | TÜRKİYE

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27-29 OCTOBER 2026
VICENZA EXPO CENTRE

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ADHESIVES BONDING & SEALANTS - ABS EUROPE 2026
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abs.show

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FEDERCHIMICA AVISA
GRUPPO ADESIVI E SIGILLANTI

Società Chimica Italiana

UNICHIM

preview

glasstec

The following pages offer readers a useful guide to advertisers of this issue that are exhibiting at Glasstec 2026

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AYROX	12	D35
BANDO KIKO	15	G49
BEST MAKINA	17	A84
BOTTERO	14	G23-24
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Hall 14 - Stand A37



glasstec

A+W SOFTWARE GMBH preview

hall 14 / stand E59

A+W Software
for Glass, Windows & Doors

People to contact at our stand

DENNIS TIEGS	**COO A+W CLARITY**
SEBASTIAN DICK	**MANAGER INNOVATIONS A+W CLARITY**
LEA ROMBERG	**MARKETING MANAGER**

A+W Software to Showcase Smart Solutions for Dispatch, Logistics, Automation, and AI at glasstec 2026

Fernwald, 26/08/2026 – From October 20 to 23, 2026, A+W Software will be exhibiting at glasstec in Düsseldorf. In Hall 14, Booth E59, the company will showcase new and enhanced software solutions for dispatch, logistics, automation, and artificial intelligence in flat glass processing.

The spotlight starts with **A+W Smart Companion Dispatch**: After unveiling the design prototype in 2024, A+W Software is bringing the market-ready product to Düsseldorf in 2026. This mobile solution supports dispatch teams with order picking, loading, route planning, and digital documentation directly on industrial scanners, smartphones, or tablets. A+W Software will also provide a first look at the next addition to the A+W Smart Companion family: **A+W Smart Companion Delivery**.

Another focus is on logistics and dispatch optimization. With **A+W Logistics Optimizer**, A+W Software shows how route planning and delivery processes can be managed more transparently and coordinated more efficiently.

Automation will also be live and on display: **A+W Glass Lab** demonstrates how software, machines, and end-to-end data flows work together and how **A+W Smart Factory** intelligently supports production processes.

With Mira, A+W is also bringing its artificial intelligence to the trade show. Visitors will see firsthand how A+W Order Entry AI powered by Mira processes order information, identifies relevant data, and supports order entry in the ERP system.





Another important highlight is the presentation by **Sebastian Dick, Manager Innovations at A+W Clarity**, on Wednesday, October 21, 2026, at 11 a.m. at A+W's booth. The focus will be on Mira, current AI developments, and new features for practical application.

"For us, glasstec is not only a showcase for new technologies, but above all a place for genuine exchange with the industry. We want to demonstrate how our solutions help manufacturers solve real-world challenges: in dispatch, logistics, production, and the intelligent support of workflows," said Dennis Tiegs, COO of A+W Clarity.

All of the solutions presented share a common goal: to help glass processors better integrate their processes, reduce manual effort, and remain responsive even as complexity increases.

Visit A+W Software at glasstec 2026 from October 20–23 in Düsseldorf: Hall 14, Booth E59.

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glasstec

ADELIO LATTUADA Srl

preview

hall 16 / stand A30

People to contact at our stand

ADELIO LATTUADA PRESIDENT
NICOLA LATTUADA PARTNER
OUR TECHNICAL AND COMMERCIAL STAFF

LATTUADA +ADDING VALUE

Today's glass processors must increase productivity, ensure consistent quality, reduce dependence on skilled labor and prepare for Industry 4.0/5.0. Lattuada responds to these challenges with an integrated ecosystem that combines advanced grinding and washing technologies, intelligent automation, robotics and digital process control.

Grinding is at the core of Lattuada's expertise. With over 40 models of straight-line edging and beveling machines, including the TL, TLR, TLS and GAMMA series, the company offers solutions for a wide range of applications, from furniture and interior design to laminated, oversized and extra-thick glass. These machines deliver high quality, productivity and reliability while being fully compatible with automated and robotic production environments.

A major step forward comes from intelligent automation systems such as A-WR (Automatic Wheels Wear Regulation) and i-AL. These technologies automate machine setup, wheel wear compensation and process parameter management, eliminating manual adjustments and cutting setup times from several minutes to less than one minute. The result is greater process consistency, improved quality and higher operational efficiency.

This concept reaches its highest expression with the i-AL Limited Edition, developed on the proven TLR and TLS platforms. More than a machine, it is a complete technological ecosystem combining advanced mechanical engineering, intelligent automation, IoT connectivity, robotics readiness and digital tools. Automatic process management, integrated monitoring and predictive maintenance functions help increase productivity, improve reliability, reduce downtime and lower dependence on operator skills. Energy-monitoring capabilities further support efficiency and sustainability goals.



Lattuada's robotic solutions integrate grinding, washing, handling and process control into a single connected production environment. Features such as automatic loading and unloading, glass validation systems, optimized workflows and high-speed robotic handling allow continuous production, higher throughput and improved workplace safety. Digital Twin simulations ensure scalable and future-ready installations.

Vertical washing machines from the OT, CT and CTS series complete the production flow. Designed for seamless integration with grinding, drilling and CNC systems, they ensure excellent washing and drying quality while supporting continuous and automated production.

Connecting all technologies is Orquestra, Lattuada's digital platform for data collection, analysis and production optimization. By connecting machines and processes in real time, Orquestra provides production monitoring, alarm analysis, maintenance management, historical reporting and energy tracking, enabling manufacturers to improve efficiency, reduce downtime and make data-driven decisions.

Together, advanced grinding and washing solutions, intelligent automation, robotics, i-AL Limited Edition technology and the Orquestra platform create a fully connected manufacturing ecosystem, helping glass processors achieve smarter, more productive and future-ready operations.

Product Range

- STRAIGHT-LINE EDGING MACHINES FOR FLAT EDGES OR WITH VARIABLE ANGLE
- STRAIGHT- LINE BEVELLING MACHINES
- ROBOTIC SOLUTIONS
- VERTICAL EDGE POLISHERS (PETRA)
- VERTICAL WASHING MACHINES
- AUTOMATIC CORNER-GRINDING MACHINES
- HORIZONTAL DRILLING MACHINES
- CENTRIFUGES

www.adeliolattuada.com • www.lattuada-na.com

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glasstec

hall 12 / stand C75

ANHUI YINRUI INTELLIGENT TECHNOLOGY CO., LTD.

preview

People to contact at our stand

OUR STAFF WILL BE AT YOUR SERVICE THROUGHOUT THE SHOW

YINRUI

Digital Transformation for Glass Processing

As glass manufacturers accelerate digital transformation, challenges such as low efficiency, poor production coordination, system incompatibility, and complex operation and maintenance remain common.With full-stack in-house R&D capabilities covering both hardware and software, Yinrui Intelligent provides end-to-end digital factory solutions for the glass deep processing industry. With mature technology, extensive implementation experience, and global service capabilities, we have successfully delivered 300+ digital factory projects worldwide.



Full-Stack In-House R&D

From equipment control systems to MES/ERP platforms, our integrated hardware and software architecture eliminates data silos and enables intelligent coordination across cutting, edging, tempering, insulating glass, and other processes. Flexible and scalable solutions can be customized to different production needs.



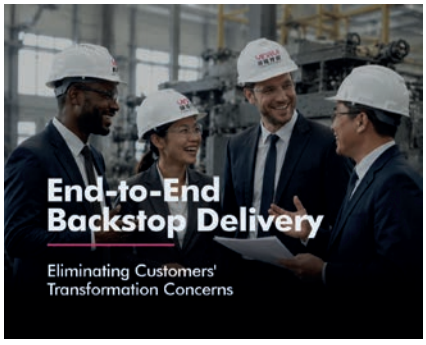
300+ Global Projects

With 300+ successful projects across Asia, Europe, the Americas, Africa and other regions, our solutions cover architectural, automotive, photovoltaic, and appliance glass. Standardized implementation and professional project teams ensure reliable and efficient delivery.



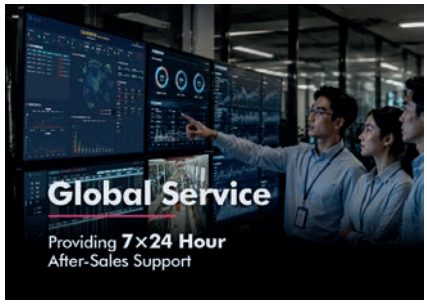
End-to-End Delivery

We take responsibility throughout the entire transformation process—from equipment installation and commissioning to stable production and system operation—reducing implementation risks and helping customers achieve a smooth transition to digital production.



7×24 Global Service

Our global service network provides 24/7 remote technical support, with on-site engineers available when required. Regular follow-ups, maintenance, and system upgrades help ensure long-term stable operation.



Yinrui Intelligent is committed to advancing digital transformation in glass deep processing with safer, more efficient, and more reliable digital factory solutions.



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glasstec

hall 12 / stand D35

AYROX SRL preview

AYROX

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ANDRE SILNOV
SALLA SUOMI
REIMA MÄKINEN
SARAH YOUNESS



Sharples compact polariscope S-700



Automatic collimator for ECE R43 secondary image separation

ACCREDITED ISO 17025 AYROX CALIBRATION

AYROX has over 30 years experience in the glass industry. We provide quality control instruments complying with the international norms for architectural and automotive glass.
We offer ISO 17025 accredited calibration and testing, repair and maintenance service in our own laboratory for a wide range of optical quality control instruments. Additionally, to improving quality and optimising production, Ayrox commercialises production accessories for laminated and tempered glass such as silicone and silicone free vacuum rings and aramid fibre tapes.

Product Range

- ISO 17025 ACCREDITED CALIBRATION AND TESTING
- REPAIR AND MAINTENANCE OF POLARIMETERS
- QUALITY CONTROL EQUIPMENT FOR GLASS
- WIRED PVB AND PLASTIC FOR HEATABLE APPLICATIONS

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www.ayrox.com

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BANDO KIKO CO., LTD.

preview

hall 15 / stand G49

People to contact at our stand

S. BANDO • K.NAKADA • M. NISIZAWA • O. TAKAHARA • Y. FREMIOT

Bando
BANDO KIKO CO.,LTD.

Seeing the customer with Bando's eyes
Feel the customer with Bando's heart

YOUR DREAM REALIZED
BANDO TECHNOLOGIES

- ADVANCED EDGE QUALITY
- INDUSTRY 4.0
- SATELLITE NON-TEMPLATE BREAKOUT
- IoT
- AUTOMATIC GRINDING VACUUM CUP CHANGE

FACTORY AUTOMATION FOR AUTOMOTIVE, FPD, SOLAR PANEL,
ULTRA THIN GLASS AND SPECIALTY GLASS

Intertek UKAS MANAGEMENT SYSTEMS 014
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ISO14001:2015 認証取得
ISO45001:2018 認証取得

CE • ISO 9001, ISO 14001, ISO 45001 certified

Product Range

- CNC CUTTING, BREAKOUT, GRINDING AND DRILLING MACHINES FOR AUTOMOTIVE AND FPD GLASS
- CNC LOW-E DELETION LINES FOR AUTOMOTIVE GLASS
- CNC SHAPE BEVELLING MACHINES AND DOUBLE EDGING LINES FOR ARCHITECTURAL MIRRORS AND GLASSES • WASHING MACHINES

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www.bandoj.com

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BEST MAKINA SAN. VE TIC. A.S.

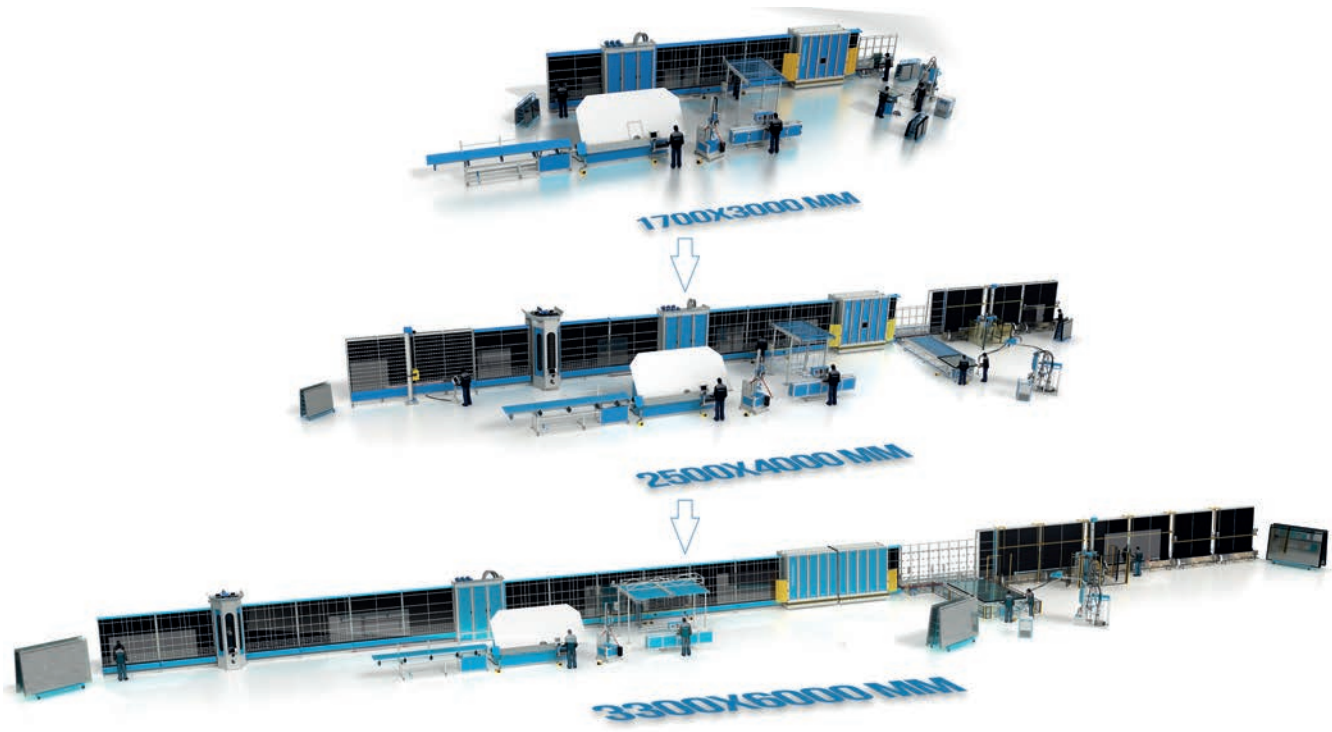
preview

hall 17 / stand A84

bestmakina

People to contact at our stand

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BEST MAKINA, has been solution partner for insulated glass production and glass processing companies in more than 100 countries since 1999. BEST MAKINA has a great advantage by having in-house production, great stock of spare parts and making his own engineering. Mechanical and software R&D engineering teams are providing flexible and customised solutions for every single project. BEST MAKINA sales team can also advise and share experiences with investors for upgrading to new technologies or start-up phases.

Simplified but durable mechanic systems and animated HMI units makes all machines in the production range more user-friendly. BEST MAKINA provides 2 years of warranty independent of working hours!

BEST MAKINA has the best price/performance ratio and best recovery time of investment in machinery market!

Product Range

- GAS FILLING OR NON-GAS FILLING INSULATED AND STEPPED GLASS PRODUCTION LINES (1700X3000MM TO 3300X6000MM)
- VERTICAL & HORIZONTAL WASHING LINES (1700X3000MM TO 3300X∞)
- AUTOMATIC TWO COMPONENT EXTRUDERS FOR SECONDARY SEALING (1700X3000MM TO 3300X6000MM)
- GLASS LAMINATION LINE (2600 MM / 3300 MM)
- VERTICAL ARRISING LINES (1700X3000MM TO 3300X6000MM)
- COATING (LOW-E) DELETION MACHINES (1700X3000MM TO 3300X6000MM)
- MANUAL TWO COMPONENT EXTRUDERS FOR SECONDARY SEALING
- PIB EXTRUDERS
- AUTOMATIC SPACER BAR PROCESSING MACHINES
- MANUALLY OPERATED SPACER BAR PROCESSING MACHINES
- AUTOMATIC TRANSFER SOLUTIONS FOR I4.0 APPLICATIONS

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Associazione Tecnici Italiani del Vetro

19-20 NOVEMBER 2026

AUDITORIUM SANTA ELISABETTA
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43124, PARMA

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"Innovations in Furnace Efficiency, Glass Quality & Defects Control"



- Energy Efficiency in Glass Furnaces
- Electric Fusion & Hydrogen in Glass Production
- Improved Circularity & Reduced Use of Primary Raw Materials
- Identification of Glass Defects
- Quality Control Across Production
- Role of Artificial Intelligence in Glass Manufacturing Processes

For enquiries or to express an interest in attending please contact us at **segreteria@ativ.eu**

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Associazione Tecnici Italiani del Vetro
Sede legale: Viale Basetti 14, 43121 Parma – Italy
Cod.Fisc.: 01881950347 www.ativ.eu

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BOTTERO S.P.A. preview

hall 14 / stand G23/G24

People to contact at our stand

ROBERTO PAOLO SARDANO — GENERAL MANAGER - FLAT GLASS

LUIGI DURAND DE LA PENNE — SALES, AFTERSALES & MARKETING DIRECTOR - FLAT GLASS



Bottero at Glasstec 2026: driving the future of connected, uptime-focused glass manufacturing

The glass industry is undergoing a structural transformation, accompanied by a significant shift in customer expectations. Today, uptime-focused manufacturing is becoming the priority: continuous production and machine reliability are valued more than simple output volume.

This transformation is accelerating the adoption of predictive maintenance, shifting the focus from reactive repairs to proactive uptime management. Rather than intervening after a breakdown, manufacturers are increasingly investing in data-driven solutions that prevent disruptions, reduce unplanned downtime, safeguard profitability, and ensure reliable delivery performance.

Innovation is also evolving. Competitive advantage is no longer defined solely by the introduction of new machinery, but by the continuous enhancement of existing technologies. Improving productivity, sustainability, digital connectivity, and process integration has become essential for manufacturers seeking long-term efficiency and flexibility.

Within this scenario, Bottero is helping shape the future of the glass industry through reliable, long-lasting technologies supported by a responsive global service and spare parts organization.

Bottero's strategy is clear: enabling a more connected, service-oriented, and uptime-focused approach to glass manufacturing.



Bottero will welcome visitors at **Glasstec 2026 in Hall 14, Stand 14G23/G24**, presenting its latest developments across glass processing, automation, and digital manufacturing.

The company's **360-square-meter exhibition area** will provide customers with the opportunity to meet product specialists, discuss current and future production challenges, and discover the technologies designed to improve productivity, efficiency, and plant performance.

Visit us at our booth to discover:

- Our latest innovations for Hollow Glass hot-end process stabilization and closed-loop control, powered by AI-driven models.
- Our renewed lifecycle services offering, designed to maximize equipment performance, uptime and long-term value.

In parallel with the exhibition, Bottero will host dedicated demonstration sessions at **Bottero GmbH in Grevenbroich, Germany**, where visitors will be able to attend technical workshops and live process demonstrations focused on flat glass applications throughout the duration of the exhibition.

Visitors will have the opportunity to see the following technologies in operation:

- DualLine 548LAM-38 FullyAuto with 363BCS-J PPL
- Pratica Plus 3300
- 111FX
- 353BKM-R with 520LAM-37

Scheduled demonstration sessions will take place daily from 10:30 to 12:30 and from 14:30 to 16:30, offering customers the opportunity to experience Bottero technologies in real production conditions and attend technical workshops focused on flat glass processing.

Dedicated demonstrations can also be arranged during the exhibition days upon request through Bottero staff, allowing visitors to explore specific applications and production requirements in greater detail.



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www.bottero.com

glasstec

hall 16 / stand A04

CMS SpA preview

Cms
glass technology

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DORIAN CAMPAGNOLA	**DIVISION MANAGER**
LUCA BARBIERI	**SALES MANAGER**
LUCA GARELLI	**PRODUCT MANAGER**

CMS Glass Technology: discover the latest innovations in glass processing at Glasstec!

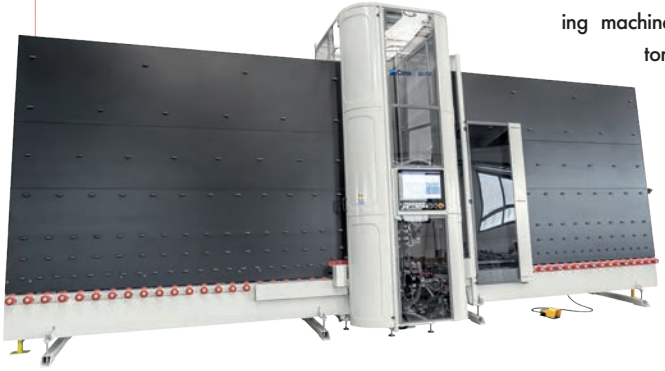
CMS Glass Technology is an industry leader in flat and curved glass processing, with advanced solutions such as horizontal and vertical CNC machining centers, cutting tables, seaming machines and waterjet cutting systems, mainly applied in architecture, interior decoration, aerospace, automotive and marine industries. CMS is constantly working to simplify customers' lives and help them become more efficient, expanding its product portfolio and renovating the software interface of its machines.

TECHNOLOGIES:

This year at Glasstec, CMS will showcase three flagship machines: Electa, Ypsos mk2 and Aura.

Electa is a compact 3/4-axis horizontal CNC with the smallest footprint and largest work area in its category, designed for grinding, edge polishing, drilling and milling (3 axes), and cup wheel polishing, cutting, engraving and 5° chamfering (4 axes).







Ypsos mk2 is the vertical machining center developed by CMS for float and laminated glass, the first and only vertical CNC capable of grinding and polishing with two heads at the same time. Its new software makes the interface more efficient and intuitive. Depending on configuration, Ypsos mk2 performs seaming, polished and industrial grinding, milling and coaxial drilling, processing small and large-sized parts, up to 6,000 x 3,300 mm. It can be used as a stand-alone machine, in line with a drilling-milling machine, or inside an insulating line.

For the first time at Glasstec, CMS will showcase Aura, its vertical dry seaming machine, developed to machine edges without water. Aura can seam monolithic, laminated or low-e treated glass, and is built for ease of use, quick installation, reliability and low ownership cost. The operator loads the glass, the machine automatically measures it and machines the edge, adapting to different thicknesses.

SOFTWARE AND DIGITAL SERVICES:

Active VGlass is CMS's new-generation software interface for vertical glass processing machines, designed around the operator experience to combine ease of use, automation and advanced machine control. It lets operators create new projects directly on the machine, import common file formats and automatically manage standard geometries, reducing setup time and errors. New real-time monitoring gives full visibility into the machining process through dashboards, progress tracking, tool status and production estimates. The new Tool Manager streamlines tool and magazine management for faster, more reliable setup.

CMS digital services for managing and optimizing machines include: IoT Solution for data monitoring and analysis, CMS Active for a simple and intuitive interface, CMS Smartive for advanced control and energy optimization, Machine Monitoring to increase productivity, and Digital Control Room for proactive support.

Thanks to its tradition and experience, CMS Glass Technology is a reliable partner in glass fabrication, offering everything from standard machines to tailor-made, fully automated systems.



Product Range

- **VERTICAL MACHINING CENTRES**
- **HORIZONTAL MACHINING CENTRES**
- **CUTTING TABLES AND CUTTING LINES**
- **SEAMING MACHINES**
- **WATERJET CUTTING SYSTEMS**

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glasstec

CUGHER GLASS Srl

preview

hall 16 / stand A20

People to contact at our stand

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PAOLO BARDOTTI	**CHIEF ENGINEERING OFFICER**
ANDREA ZORZITTO	**PROJECT MANAGER OFFICER**
MATTEO DE SALVO	**PROJECT MANAGER**
DEA CIZMJA	**MARKETING ACCOUNT**

CUGHER
Plants and machinery customer oriented



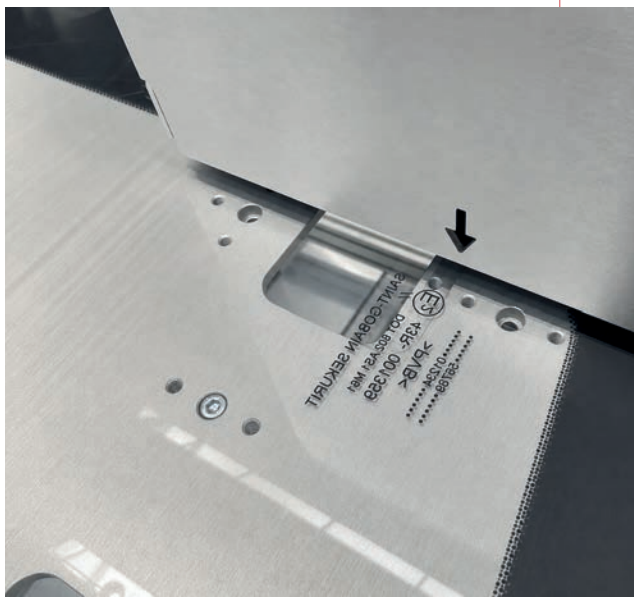
At Glasstec 2026, Cugher will present D-CODE in a world premiere, unveiling its new data printing solution for glass. Equipped with digital inkjet printheads, D-CODE enables the **printing of logos, QR Codes, DataMatrix codes, text and variable data**, supporting increasingly customized and traceable production.

The solution can operate as a stand-alone printing station or be integrated into existing Cugher screen-printing lines, bringing digital printing capabilities directly into established production processes. The system will also be presented together with a quality control solution for printed glass, designed to inspect the printed output and support consistent quality standards.

Alongside this new technology, Cugher will showcase its expertise in the design and development of **complete solutions for glass printing and handling**, serving multiple application sectors, including automotive, home appliance, architectural and solar glass.

From individual machines to fully automated production lines, Cugher solutions are engineered according to each customer's specific requirements and can be customized in terms of production capacity, process configuration, automation level and available layout. This flexible approach allows Cugher to support both new production projects and the integration or upgrade of existing lines, providing tailored solutions for different manufacturing environments and production needs.





Product Range

- **SILK SCREEN PRINTING MACHINES**
- **IR & UV DRYERS**
- **HANDLING**
- **COMPLETE AUTOMATIC LINES**
- **ORDER MANAGER INDUSTRY 4.0**
- **VISION SYSTEMS & QUALITY CONTROL**

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hall 16 / stand C30

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DELTAMAX
INSPIRING AUTOMATION

Deltamax Automazione S.r.l. was founded in 1989 as a spin-off of **FBK**, a research center based in Trentino, from the idea of applying machine vision technologies to industrial applications. During its first twenty years of activity, the company developed expertise in vision solutions for quality control across various manufacturing sectors, building technical know-how that, starting in 2010, it chose to dedicate exclusively to a single industry: flat glass.

Since then, Deltamax has focused entirely on the development of machine vision systems for flat glass quality control. This path of continuous growth, supported by ongoing investments in research and development, has enabled the company's innovative solutions to be installed today in more than 40 countries across five continents, alongside the world's leading glass manufacturers.



Product

- **OPT** is an advanced scanner for quality control of unwashed sheets, designed to detect non-recoverable defects before they impact your production line. This cutting-edge, patented technology not only identifies structural flaws but also re-optimizes the cutting process, enhancing efficiency throughout your entire production cycle. With OPT, you gain not just a boost in productivity but also significant environmental benefits, making your processes more sustainable and forward-thinking. Discover how OPT can transform your production and set a new standard in quality control
- **Q+** is a revolutionary innovation in quality control systems for insulating glass lines. It sets a new benchmark in the industry with its superior ability to detect low-contrast defects, such as halos, that other systems miss. This state-of-the-art technology ensures unparalleled precision, minimizing defects and maximizing product quality. With Q Plus, you're not just improving your inspection process—you're leading it. Discover how Q Plus can elevate your quality standards and give you a competitive edge in the market.
- **GlassInspector:** often referred to as a "scanner," is the Deltamax Automazione solution designed for detecting defects on insulating glass (IG) lines. Its modular design allows it to easily adapt to any production line, and it is quick to install without the need for extensive maintenance—just regular cleaning. The user-friendly Graphical User Interface (GUI) is intuitive and straightforward, making it accessible for any operator to use effectively for quality control without altering the production process.
- **IGU:** The IGU scanner enables the inspection of finished insulating glass units (IGUs), regardless of whether they are made up of two, three, or four glass sheets. This advanced technology ensures consistent precision in detecting defects across the transparent sections of all panes within the IG unit, providing a thorough and reliable final inspection.
- **FROG** offers reliable and high-performance glass fragmentation analysis with customizable controls. It allows users to set parameters based on safety standards or specific needs. The system supports two analysis methods: a single image or multiple images of different areas. It provides real-time results on the graphical interface, showing the number of fragments, compliance with rules, the area of the largest fragment, and fragment size distribution.
- **Profiler** is Deltamax's solution for template recognition and glass measurement. Unlike other Deltamax solutions for double glazing lines, Profiler includes a special espalier tailored to ensure precise measurements. The size of this espalier varies according to the maximum size of the glass to be inspected, providing the necessary accuracy for different glass dimensions.

glasstec

D.K. HOLDINGS LTD. preview

hall 11 / stand B24

People to contact at our stand

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JOHN EMPTAGE	SALES DIRECTOR
JULIA LOESER	MARKETING COORDINATOR

DK HOLDINGS LIMITED

DK Holdings @ glasstec 2026
From Design to Delivery. UK Manufactured Diamond Tooling
Hall 11 / Stand B24

Our technical and sales team will be available throughout the show to discuss your glass processing applications, tooling requirements and bespoke diamond tooling solutions.

Glass processing is rarely one-size-fits-all. Machine type, glass thickness, coolant use, feed rate, contact pressure, stock removal requirements and desired finish can all influence the diamond tooling specification.

At glasstec 2026, DK Holdings Limited will be welcoming visitors to Hall 11, Stand B24 to discuss practical tooling solutions for cutting, drilling, grinding, seaming, arrissing, polishing and specialist finishing applications.

Manufactured within the company's ISO-certified production facilities in the United Kingdom, DK's precision diamond tooling range supports glass processors working across architectural, automotive, decorative, scientific, technical and specialist glass applications.

Visitors will be able to discuss DK's Flexible Diamond range, including Electroflex and Electroplus belts, discs, hand pads and sheets as well as solutions for seaming and arrissing applications. The team will also be on hand to talk through grade selection, belt size, coolant behaviour, stock removal, edge finish and tool life requirements.

Alongside its Flexible Diamond range, DK Holdings will showcase Metal Bond Diamond Tooling, Electroformed and Electroplated Diamond Tooling as well as its Resin Bond Diamond Tooling range for standard and specialist glass applications.

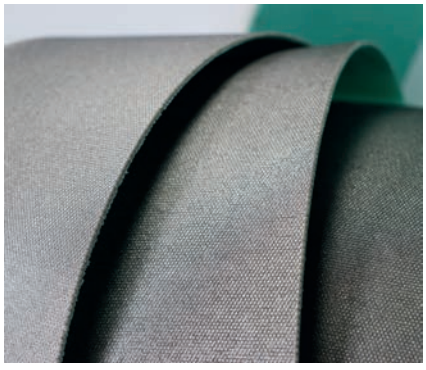
This includes seaming and grinding wheel systems, profile wheels, glass blades, drills, countersinks, taper reamers and bespoke tooling manufactured to customer specification.

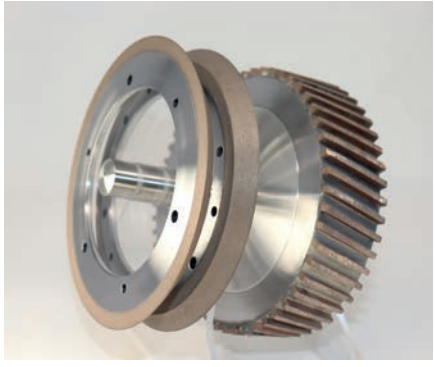
Whether the challenge is edge consistency, controlled stock removal, longer tool life, machine compatibility or a bespoke application, DK Holdings will be ready to discuss the process in detail.

Visit DK Holdings at glasstec 2026, Hall 11, Stand B24.











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glasstec

EASY AUTOMATION S.R.L.

preview

hall 15 / stand B35

People to contact at our stand

AUGUSTO VINCENZI GENERAL MANAGER

Easy Automation manufactures machines for automotive glass producers. We supply complete solutions, from design and construction to start-up and training, for complete production lines. Easy Automation also has particular skills in the development of robotic cells, vision inspection, and fast glass handling.

Wiring Drum Machine EWA
PVB wiring application — the new standard for PVB wire embedding. It applies wires with three paths (parallel, trapezoidal, and backlight type) at an application speed of up to 300 m/min. It can be integrated with automatic Bus-Bar application, tape application, and precut PVB.

Wiring Table Machine EWA - H
PVB wiring application — a flexible solution that can be applied for heating wires and antenna circuits. Both tools can be installed on the same machine.

Bus-Bar Wiring Application (ABBA)
The first automatic system to apply the first and second bus-bar on wired PVB sheets. The system can apply strips of different dimensions directly on the PVB.

EWA-Cut
High-speed plotter for PVB cutting and shape cut-outs, with the option to integrate the wiring process within the same station.



PVB Trimming (TREA)
TREA is the PVB trimming solution developed by Easy Automation in response to the needs of the most demanding customers.

Soldering Device Easy Automation (SDEA)
The SDEA soldering system is based on direct electrical heating with 100% double energy control. It has been developed for use in high-volume production, guaranteeing reliability and low operational costs.

SDEA-C
Soldering device equipped with Artificial Intelligence, representing a major step forward in soldering quality control, especially for manual soldering systems.

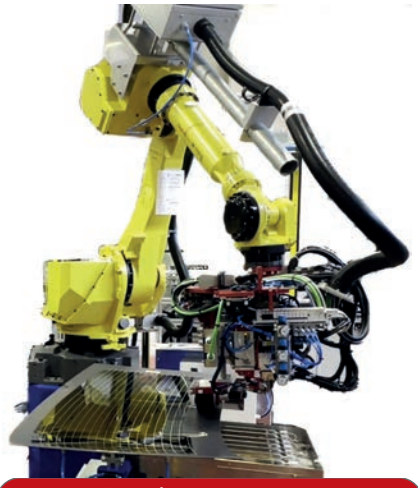
- **Process Control:** The integrated AI algorithm actively monitors every phase of the soldering cycle, cross-referencing real-time execution parameters with historical quality benchmarks to detect anomalies instantly.
- **Temperature Control:** Equipped with dynamic thermal monitoring that regulates and maintains the precise heat profile required for each joint, preventing thermal stress on the glass and ensuring flawless electrical connectivity.

Electrical Control Machine (ECM-Th)
Electrical control machine for backlight defrosting circuits using a Thermovision system. The ECM-Th controls the printed circuits of the backlights via an infrared camera.

Antenna Control Machine (ACM)
Antenna control machine for backlights and sidelights, specifically designed to detect open-circuit and closed-circuit antennas.

Windshield Control Machine ECM-W
Designed to check the heating quality of heated windshields. It is fully compatible with both wired and coated windshields.

Windshield Assembly Lines
Development of robotic applications for components such as dam rubber and Elkamet profiles. This technology enables EA to supply fully automated assembly lines for windshields — handling everything from cleaner and primer to the application of brackets, rain sensors with PU dosing, pins, spacers, and gaskets — achieving an optimized cycle time of up to 28 seconds.



Product Range

- TURNKEY PLANTS/ ENGINEERING FOR AUTOMOTIVE GLASS
- AUTOMOTIVE GLASS QUALITY CONTROL
- WIRING DRUM
- WIRING TABLE
- SOLDERING EQUIPMENT FOR ELECTRICAL CONNECTORS FOR WINDSCREENS AND BACKLIGHTS
- TESTING FOR SOLDERING
- TESTING DEVICES OF BACKLIGHTS ELECTRICAL HEATING
- TRIMMING OF WINDSCREENS
- PRIMER AND CLEANER APPLICATION
- COMPONENT APPLICATION

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Edgetech
A Quanex Building Products Company

'SOLUTIONS FOR LIGHTWEIGHT IG': QUANEX EDGETECH TO SHOWCASE SOLUTIONS FOR LIGHTWEIGHT INSULATING GLASS

Quanex Edgetech, manufacturer of the flexible Super Spacer® insulating glass spacer system, will showcase the latest developments in warm edge technology and innovative insulating glass concepts at glasstec 2026.

From Skinny Triples to Hybrid Insulating Glass

Achieving higher energy efficiency while reducing weight and maintaining slim glazing structures is one of the key development challenges facing the insulating glass industry. Conventional triple glazing often reaches its limits due to its thickness, weight and CO_2 footprint. At glasstec 2026, Edgetech will present two market-ready approaches to addressing this challenge: the cost-effective production of so-called Skinny or Thin Triples and HyLight, an innovative type of Hybrid Insulated Glass Unit (HIGU) using PET as well as glass. Developed by the Norwegian company Hybridized, HyLight features the flexible Super Spacer® as its spacer system.

A solution collaboration with Forel has demonstrated that thin triple insulating glass units can be manufactured on existing fully automated high-speed production lines. Following a system upgrade, this solution enables a cost-effective production. A key factor is the precise application of the Super Spacer® to the ultra-thin centre pane. Even at tolerances well below one millimetre, production quality remains consistently stable.

The Norwegian start-up Hybridized is taking a different approach with its Hybrid Insulated Glass Unit (HIGU), HyLight. In this concept, the centre pane of a conventional triple-glazed unit is replaced by an ultra-thin flexible substrate, either an optical PET film or thin glass.

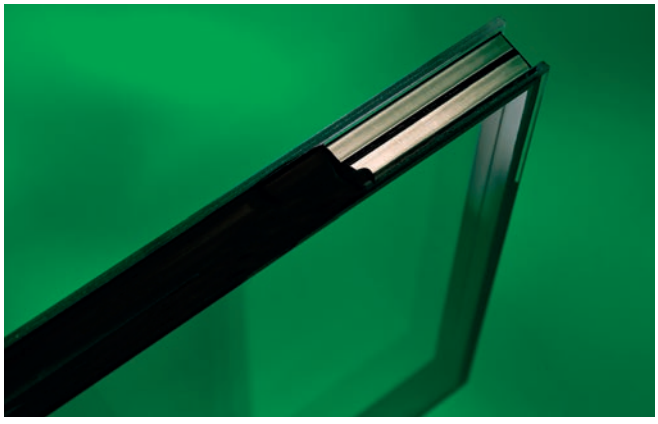
According to Hybridized, this reduces the glass content by approximately 30 percent, lowering the weight from around 45 to 30 kg/m² at a Ug value of 0.6 W/(m²K). As a result, a triple-glazed HIGU weighs about the same as a conventional double-glazed unit while reducing carbon emissions by around 30 percent compared with conventional triple glazing.

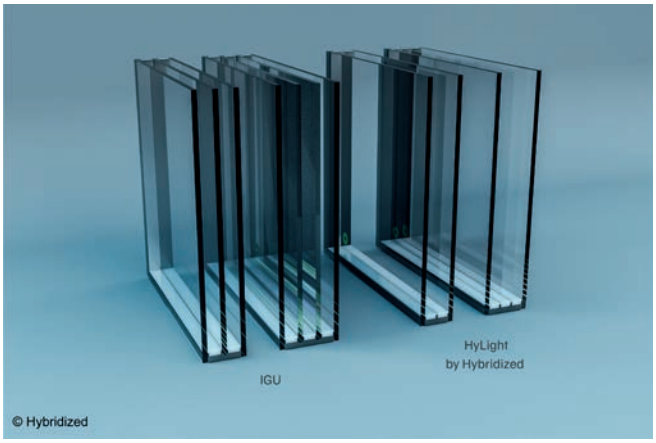
Hybridized's production technology applies the flexible Super Spacer® directly onto the ultra-thin substrates, allowing them to be combined with standard glass panes. The process is designed for existing fully automated production lines and requires only a system upgrade.

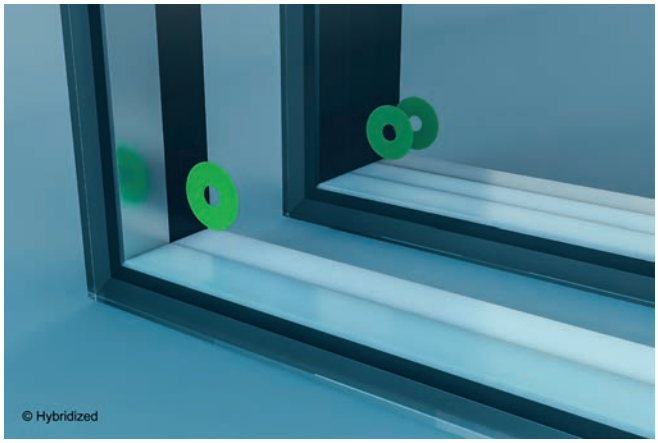
The Flexible Spacer for Demanding Glazing Applications

At the booth, the focus is on the performance characteristics of the Super Spacer® systems: In addition to the energy efficiency benefits of warm edge technology, with Psi values as low as 0.029 W/(mK), ease of processing and process reliability are key advantages. The flexible silicone foam spacer can be applied automatically with a high degree of precision, making it suitable not only for high-volume residential window production but also for complex insulating glass constructions, large-format glazing and demanding parametric façade constructions.

Quanex Edgetech will be exhibiting at glasstec 2026 in Hall 17, Stand D67.







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glasstec

hall 15 / stand B55

EMAR Srl preview

EMAR GROUP

People to contact at our stand

OUR STAFF WILL BE AT YOUR SERVICE THROUGHOUT THE SHOW

EMAR Group has been operating in the sector of design and construction of flat glass machines for over thirty years exporting directly or indirectly to more than 50 countries, accounting for 90% of its global turnover. We currently operate in a production facility with a total surface area of over 4000 sqm. The factors on which EMAR has always based its business are investment in research and development, and the continuous improvement of customer services.

EMAR produces customized machines for foreign and Italian retailers who need to expand and complete their production lines.

Abroad we sell through qualified distributors trained through specific technical courses to guarantee customers a complete and efficient service. In Italy we operate with qualified personnel together with our internal technical team to guarantee assistance within 24 hours.

ENVIRONMENT AND ENERGY

In the coming years, global energy demand is expected to increase by almost two percent per year: On the environmental front, in 1997 the "Kyoto Protocol" established the need to reduce greenhouse gas emissions to combat the progressive warming of the planet.

To produce more energy and pollute less is the mission of the EMAR Group.

AUTOMATIC LINES WITH GAS

Modular automatic lines with panel press, gas loading and remote monitoring. From 2000 to 2500.



AUTOMATIC LINES

Modular automatic lines with panel press and remote monitoring. From 2000 to 2500.

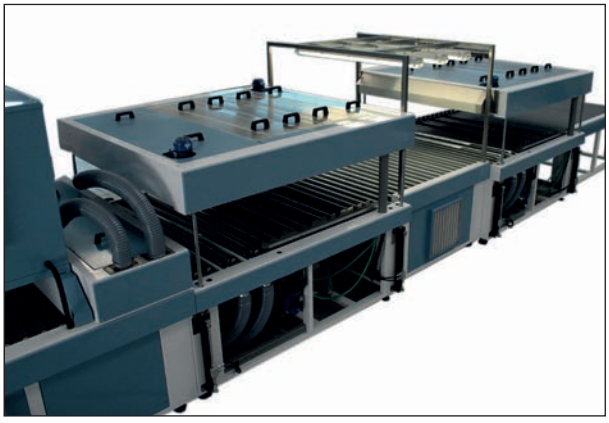


VERTICAL WASHING MACHINES

Modular vertical washing machines - STANDARD or ECO series. From 1500 to 3300.









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glasstec

hall 11 / stand F28

EVALAM preview

Evalam



EVALAM, part of Pujol Group, is a global specialist in interlayers for laminated glass, combining advanced material technology with technical expertise and application-driven solutions for the architectural, decorative and safety-glass markets.

At Glasstec 2026, EVALAM will showcase its latest generation of EVA interlayers and innovative laminated-glass solutions, designed to meet the increasingly demanding requirements of architects, façade specialists, glass processors and laminators worldwide.

AB-AR – Structural Post-Breakage Safety: EVALAM AB-AR is a high-performance structural interlayer developed for applications requiring enhanced post-breakage safety, particularly in public spaces and areas subject to high linear loads.When combined with tempered glass, AB-AR provides a high level of passive post-breakage protection, helping the laminated glass retain structural integrity after glass breakage.Its high mechanical performance makes AB-AR a suitable alternative for demanding structural glazing applications where long-term performance, safety and resistance are critical design requirements.

Unlike conventional EVA interlayers, AB-AR has been specifically engineered to deliver enhanced mechanical performance and structural behaviour over a broad range of service temperatures, making it suitable for applications where temperature-dependent mechanical properties are a key consideration.

VISUAL – Optical Quality Meets High Performance: EVALAM VISUAL has been developed for laminators and glass processors looking for outstanding optical quality combined with excellent adhesion and long-term durability. Its high transparency, low visual distortion and strong adhesion make it particularly suitable for architectural applications where aesthetics and optical performance are essential.VISUAL also offers high acoustic insulation performance and a controlled crosslinking level, providing an excellent balance between processing performance, durability and final laminated-glass quality.The result is a premium interlayer solution for projects where clarity, aesthetics, adhesion and long-term performance cannot be compromised.

EVALAM COLOR – Unlimited Design Possibilities: EVALAM COLOR brings colour and creativity to laminated glass, offering architects, interior designers and glass processors a versatile solution for decorative and architectural applications. The range combines colour uniformity, durability and consistent optical appearance, providing reliable results across different laminated-glass configurations. The portfolio has recently been expanded with four new attractive colour references, giving designers even greater freedom to create distinctive architectural and interior spaces.

EVALAM MESH – Design Integrated into Glass: EVALAM MESH is an innovative interlayer solution that integrates a decorative mesh into laminated glass, combining design, safety and functionality in a single product. It opens up new creative possibilities for architects and designers, enabling distinctive textures, patterns and visual effects while maintaining the essential performance, durability and quality associated with EVALAM laminated glass.

EVALAM BIRD PROTECT – Safer Glass for Birds and Architecture: EVALAM BIRD PROTECT is a laminated-glass solution designed to reduce the risk of bird collisions through a scientifically based visual pattern integrated into the glass. Compatible with conventional EVA lamination processes, it combines biodiversity protection, transparency, design flexibility and durability.

Bird Protect provides architects and façade designers with a practical solution for incorporating bird-safe principles into contemporary architectural glazing without compromising the aesthetic possibilities of laminated glass.

I-ON by Pujol – Smart Glass Solutions

Alongside EVALAM, Pujol Group will present I-ON, its range of PDLC laminated-glass solutions for architectural, interior and decorative applications.I-ON enables glass to switch between transparent and opaque states, providing privacy on demand while allowing seamless integration into modern architectural environments. The system can be integrated into building automation and controlled remotely using wall-mounted controls, smartphones, tablets, timers and sensors, offering flexibility for residential, commercial and professional applications. I-ON solutions are designed to meet the applicable requirements for laminated glazing in architectural applications, providing a combination of privacy, technology, functionality and contemporary design.





www.evalam.net

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glasstec

FILTRAGLASS SL preview

hall 15 / stand E06

FILTRAGLASS
WATER TREATMENTS FOR GRINDING TECHNOLOGY

FILTRAGLASS WILL BE AT GLASSTEC 2026

The company will showcase its water filtration systems for the glass industry at the sector's leading international trade fair.

Filtraglass's participation in **Glasstec** reflects the company's commitment to continuing to support the glass industry in its transition towards more efficient and sustainable processes. From **20 to 23 October**, the Vilamalla (Girona)-based company will be in **Düsseldorf (Germany)** to share its water recycling systems – designed for glass manufacturing and processing – with customers, partners and industry professionals.



Visitors will find the **Filtraglass** team in **Hall 15, Stand E06**, where they can learn how the company's water filtration systems help to reduce water consumption, optimise production processes and move towards more environmentally friendly manufacturing.

Glasstec, the global stage for innovation in glass

Held every two years, the **Glasstec** trade fair has established itself as the most important international event for the glass industry. Its most recent edition, held in 2024, brought together 1,257 exhibitors from 50 countries and welcomed over 32,000 trade visitors from 121 countries, figures that reflect the fair's global nature.

The programme for **Glasstec 2026** will focus on the main challenges facing the glass industry: digitalisation, decarbonisation and, in particular, the circular economy. Optimising the use of resources such as water will be one of the key aspects in driving more sustainable production models, an area in which **Filtraglass** has been developing sector-specific solutions for many years.

Innovation to make the most of every drop of water

With the aim of helping the glass industry progress towards more sustainable production, **Filtraglass** develops systems capable of recovering the water used in production processes, treating it and feeding it back into the cycle in a suitable condition for reuse. These solutions help to minimise resource consumption, reduce waste generation and optimise plant performance, thereby facilitating the achievement of its clients' sustainability objectives.

"**Glasstec** represents an opportunity to share our vision for the future of the industry. There is an ever-increasing demand for solutions that combine efficiency, cost-effectiveness and sustainability, and that is precisely the path we are following at **Filtraglass**. We want to demonstrate that responsible water management is a competitive advantage," says Alberto Medina, sales director at **Filtraglass**.

A space for sharing knowledge

In the words of Zoran Skoric, international sales manager at **Filtraglass**, "As well as showcasing our technology, **Glasstec** offers



us the opportunity to listen to the market and understand how the needs of glass manufacturers are evolving. That direct contact is essential for continuing to develop machines that deliver real value to our customers."

From 20 to 23 October 2026, Filtraglass will be at **Hall 15, Stand E06**, where it will welcome all professionals interested in discovering its systems for more efficient and sustainable water management in the glass industry.



www.filtraglass.com

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glasstec

hall 10 / stand G82

FINEO by AGC preview

FINEO by AGC

FINEO Vacuum Glass Presents Solutions for Window Renovation and Restoration at glasstec 2026

FINEO by AGC, the vacuum insulating glass from AGC Glass Europe, is exhibiting at glasstec 2026 from 20 to 23 October at the ift Rosenheim stand G82 in Hall 10. The focus is on energy-efficient glass replacement while preserving historic windows, as well as the resource-efficient renovation of existing façades.

Historic windows often lack the rebate depth for modern multiple glazing. With its slim build-up, FINEO can be integrated into many existing frames while achieving a Ug value of 0.7 W/(m²K), compared with around 5 W/(m²K) for conventional single glass. Following the commissioning of AGC's new production line in Lodelinsart, Belgium, the tempered version can achieve values as low as 0.44 W/(m²K).

At glasstec, FINEO will demonstrate the use of vacuum insulating glass in a restored box-type window. The scale of the renovation potential is considerable: a study by ift Rosenheim identified around 74 million box-type windows in Germany as early as 1996. If one of the two panes is replaced with FINEO, the overall construction can achieve Ug values between 0.7 and 0.5 W/(m²K), while retaining the established double-window construction.

Existing façade constructions can also be retained. Replacing only the glazing with vacuum insulating glass can allow an aluminium façade to remain in place instead of being dismantled, recycled and replaced. This avoids both new material use and the energy required for recycling the existing aluminium.

FINEO's slim and lightweight build-up requires less material than triple glazing at comparable thermal performance. Laboratory tests confirm stable thermal and acoustic performance for more than 60 years. At the end of its service life, all components can be returned to the glass furnace; FINEO consists entirely of ceramic materials and is 100 per cent recyclable and circular.

FINEO is the only vacuum insulating glass with a general construction technique permit (aBG) for use in linear supported vertical glazing. AGC was also the first manufacturer worldwide to obtain CE marking for vacuum glass. A third-party verified EPD reports a global warming potential of 18.9 kg CO_2 equivalent per square meter for the 8 mm Low-Carbon version, cradle to gate.

"Renovation is an effective form of sustainability: what stays in the building does not have to be produced again," says Clément Lemoine, Head of Product & Marketing for FINEO by AGC. "At glasstec, we will discuss with planners, architects and window manufacturers where glass replacement offers a viable solution."







glasstec

FRATELLI PEZZA SRL

preview

hall 16 / stand A26

FPE FRATELLI PEZZA

People to contact at our stand

MICHELA PEZZA	CEO & PRESIDENT
FABIO GABRIELI	TECHNICAL DIRECTOR
PAOLO DE BORZATTI	SALES MANAGER

From process planning to surface protection: Fratelli Pezza showcases an integrated approach to glass sandblasting at Glasstec 2026

With more than 50 years of experience in glass surface processing, Fratelli Pezza will showcase at Glasstec 2026 its latest technologies for glass sandblasting and surface treatment, highlighting an integrated approach that supports glass processors throughout every stage of the sandblasting process—from process planning and masking to automated production, permanent marking and surface protection.

As architectural and decorative glass continues to evolve towards larger dimensions, higher levels of customization and increasingly demanding quality standards, achieving consistent results requires far more than advanced machinery alone. The quality of the finished glass depends on the correct combination of masking techniques, process parameters, abrasives, software and surface protection. By combining proprietary technologies with process expertise and technical consultancy, Fratelli Pezza helps manufacturers improve productivity, repeatability and overall process reliability.



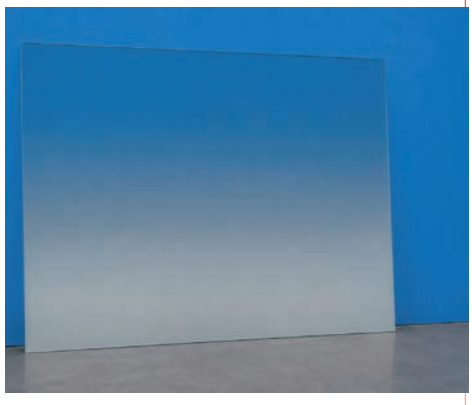
Central to this approach is the MISTRAL EV+ automatic glass sandblasting machine. Designed for precision, flexibility and long-term reliability, it supports a wide range of architectural and decorative applications while ensuring stable handling through its vertical processing concept, which keeps the glass supported on its long edge throughout the production cycle.

One of its most distinctive innovations is MultiShading, an exclusive functionality that enables multi-directional sandblasted gradients and customized translucent effects. Unlike conventional sandblasting, MultiShading allows manufacturers to create smooth transitions and variable opacity levels for privacy glass, shower enclosures, decorative panels, partitions, LED mirrors and architectural features. At the same time, it contributes to production efficiency by selectively sandblasting only the areas required by the design, reducing unnecessary processing, optimizing abrasive consumption and shortening cycle times while maintaining outstanding repeatability and surface quality.

For mirror manufacturers, the proprietary MirrorProtection system minimizes the risk of electrostatic discharge during sandblasting, helping preserve the integrity of the mirror backing while ensuring reliable processing of decorative and functional mirrors.

Digital process management is supported by MistralApp, the web-based application that allows operators to prepare and manage sandblasting programs remotely through a standard web browser. New production programs can be created while the machine continues operating, improving workflow efficiency without interrupting production.

Fratelli Pezza's expertise extends well beyond machinery. The company also offers the AMACOR family of professional masking solutions, including high-performance masking films and pre-cut stencils for applications such as bird-friendly glass, safety markings and decorative patterns, helping manufacturers simplify preparation while ensuring consistent, repeatable results. The portfolio is completed by permanent glass marking systems for industrial traceability, product identification and branding, together with protective coatings for sandblasted, float and acid-etched glass, developed to preserve the appearance of the surface while reducing maintenance requirements over time.



Product Range

- AUTOMATIC AND MANUAL GLASS SANDBLASTING SYSTEMS
- GLASS MARKING SYSTEMS
- PROTECTIVE COATINGS FOR SANDBLASTED, FLOAT AND ACID-ETCHED GLASS

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glasstec

hall 16 / stand C12/C14

FOREL SpA preview

People to contact at our stand

CARLO ZUCCARELLO SALES AREA MANAGER







50 YEARS OF SHAPING GLASS PROCESSING INNOVATION

In 2026, Forel celebrates its 50th anniversary at Glasstec with a clear message: innovation built on technologies that perform, last and deliver results. Its claim, "Driven by innovation. Proven through time," is a concrete promise to glass processors worldwide.

High Speed Thermoplastic IG Line – A fully automated system integrating thermoplastic spacer technology for high-volume production, running up to 30% faster than traditional setups. A double tandem press with gas filling ensures high throughput, while a robotic sealing system with dual transport carriage guarantees uniformity at scale.

Rigid Spacers – A renewed automatic desiccant filler improves filling precision, alongside an upgraded spacer bar bending machine and manual butyl extruder, forming a modular, configurable ecosystem.

FG Jumbo – After its Vitrum 2025 debut, this version handles glass up to 3300×6000 mm. With 200 mm diamond wheels, it performs simultaneous arrissing and flat edge grinding, plus integrated rinsing and drying, in one compact solution.

EM-DM-VW – Grinding, drilling/milling and washing operate simultaneously, minimising handling. An automatic eight-position tool changer ensures flexibility for dynamic production.

Expert Corner – IG samples including double/triple glazing, VIG and fire-resistant solutions, offering direct dialogue with Forel's specialists.

Visit Forel at Glasstec 2026 — Hall 16, Stand C12/C14.



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glasstec

GLASS COMPANY Srl

preview

hall 16 / stand C37

People to contact at our stand

CLAUDIO BERNABUCCI — MANAGING DIRECTOR
HICHAM ERMICHI — SALES ASSISTANT

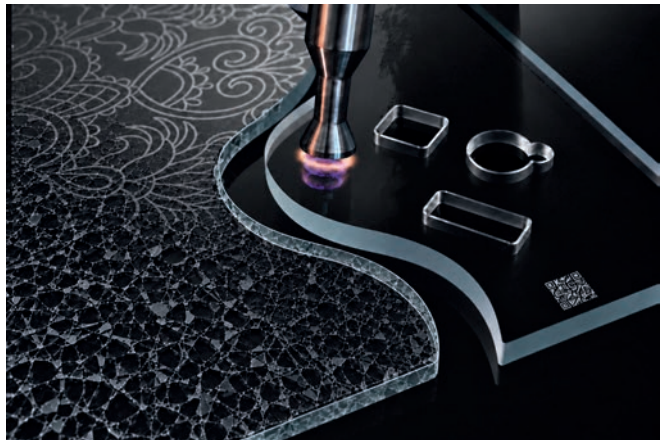
GLASSCOMPANY

In a continuously evolving European landscape where sustainability, automation, and digitalization increasingly shaping with aesthetics and functionality, Glass Company Srl emerges as a forward-thinking partner in the glass sector. Based in Pesaro, the company presents at GLASSTEC 2026 a tangible and already operational vision of the future of glass, founded on flexible, smart, and efficient production processes.

LaserMek Innovation: A new concept, not available in the market, will be presented at Glasstec. A new Laser Drilling capable to produce holes and openings in virtually and shape, with single or double sided countersinking .

Glass Company's staff will also show a new compact laser marking head designed to permanently mark Mini QR codes (starting from 7x7mm), production data, logos, symbols or machine-readable information directly onto the glass.

LaserMek ALL-in-ONE: An advanced version of LaserMek that with one only laser head combines both the previous functionalities with an additional drilling capability for the creation of holes of any geometric shape within a 150x150 mm area on monolithic glass up to 25 mm thick. The LaserMek ALL-in-ONE will be showcased at the Glass Company booth during the fair.



LaserMek Cut: Specializes in glass straight and shaped cutting, utilizing filamentation technology. It can cut large-format glass sheets and is also integrable into the VisionMek line for "Glassspacer" cutting.

VisionMek for Full Vision Insulating Glass Production: Represents the latest trend in industrial refrigeration, now expanding into construction and interior design, for manufacturing glass with transparent spacers: "Glassspacer". VisionMek will be presented together with SOFTMEK, the company's proprietary software for electrically heated glass

FireMek: A cutting-edge technology for producing fire-resistant and ballistic-resistant glass. For the production of fire-resistant glass in classes E, EW, and EI, Glass Company has developed a sophisticated, technologically advanced process: FireMek. At the Pesaro facility, the company not only manufactures the machinery but also provides a turnkey system, including proprietary chemistry for producing ultra-transparent intumescent silica-based dispersions essential for this type of glass. FireMek has evolved to combine fire resistance with ballistic protection.

CoatMek: A standalone or integrable solution for applying functional nanocoatings such as Easy to Clean. Fully configurable it enables precise, efficient and reproducible treatments across various glass formats.



Tempering and Glass Break Alert: To address the issue of glass breakage during tempering, Glass Company has developed the **patented** system called "Glass Break Alert." This system detects glass breakage during tempering and cooling phases allowing rapid identification of the blow-off zone where the break occurs, thus resolving issues without critical delays especially when tempering cycles are very short. The Glass Break Alert system can be integrated. Also Glass Break Alert can be integrated in any other Jinglass or other brand tempering furnace.

www.glasscompany.com

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Tel.: +39-0721-283519 - E-mail: info@glasscompany.com

glasstec

GLASTON GROUP preview

hall 15 / stand A48/A49

glaston
seeing it through

People to contact at our stand

AT GLASSTEC, OUR EXPERTS WILL BE AVAILABLE TO PROVIDE YOU WITH RECOMMENDATIONS AND SOLUTIONS FOR ANY OF YOUR GLASS PROCESSING CHALLENGES. COME ASK US MORE!

GLASTON @glasstec – GLASS. AUTOMATED.

At glasstec 2026, Glaston is showcasing under the exhibition motto "**GLASS. AUTOMATED.**" its full portfolio of automation solutions spanning tempering, laminating, insulating and mobility glass manufacturing.

TEMPERING. AUTOMATED.

Glaston is bringing intelligent automation and real-time quality control to the entire tempering workflow, from loading through output monitoring.

- **Glaston Autopilot** is the only fully automatic tempering solution.
- **Glaston AutoLoad** combines intelligent batch planning with automated execution.
- **Online Stress Calculation (OSC™)** is the only online solution that verifies, in real time, that every pane is properly tempered.
- **Glaston Anisotropy Control** is a specialized quench nozzle design paired with automation that minimizes stopping marks, producing clearer, more visually consistent glass for architectural and premium applications.

All automation features are available as upgrades to Glaston tempering lines.

LAMINATING. AUTOMATED.

Glaston's laminating lineup covers everything from high-throughput standard laminates to the most demanding multilayer builds.

- **Glaston ProL SPEED** is the world's fastest mixed-production laminating line, with the lowest energy consumption and highest yield across the widest product mix, from single-sheet laminates to complex multi-interlayer constructions.
- **Glaston Autotrim** automatically trims all four edges of every laminate sandwich and transfers it to the furnace.
- **Glaston Convection Control** is patented hardware-and-software technology that processes complex laminates, including multilayer SentryGlas®, fully automatically. Upgradable to existing Glaston ProL furnaces.



All automation features are available as upgrades to Glaston ProL laminating lines.

INSULATING. AUTOMATED.

Renovation and new-build projects increasingly call for triple-glazed units that are lighter, slimmer and more thermally efficient than conventional IG lines can deliver.

- **Glaston ULTRA TPS®**, automatic manufacturing of thin triple and quadruple IGUs with center panes as thin as 0.5 mm, a world first. Thin triple IGUs offer up to 20% higher insulation at the same thickness and weight as traditional double IGUs, and the line can run both traditional and thin TPS® configurations in mixed mode.
- **Glaston TPS® PRO'APPLICATOR**, a master-master drum pump and patented follower plate enables uninterrupted production with up to 35% higher output, plus automatic thickness adjustment and the market's shortest corner-bevel joint.
- **Glaston MUNTIN'MASTER and Cobot** is the only fully automated solution for muntin bar positioning in TPS® IGUs, with an optional cobot extension for automatic bar feeding, eliminating the last manual touchpoint and supporting both EU and US specifications.



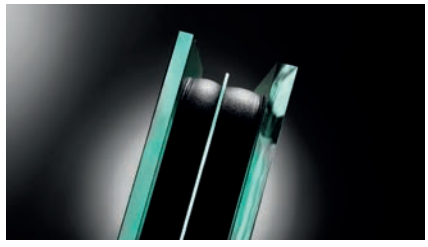
MOBILITY. AUTOMATED.

Glaston MATRIX EVO brings industry-leading bending technology to OEM and ARG processors, mastering complex windshield shapes and curved sunroofs.

Glaston CHAMP EVO is a modular cutting and grinding solution that adapts to the customer's plant layout, delivering a grinding allowance as small as 0.3 mm at high speed via direct-drive cutting and single-step cut-to-grind. The **Glaston CNC96 retrofit** modernizes former Bystronic glass machines with new control systems.

SERVICE & UPGRADES

Glaston CARE™ combines preventive maintenance, priority service access and economic benefits under one predictable agreement. **Glaston Upgrades** offer a cost-effective way to modernize equipment, extend its lifetime and maximize ROI.



Product Range

- FLAT TEMPERING FURNACES
- BENDING AND TEMPERING SYSTEMS
- FLAT LAMINATING LINES
- WINDSHIELD BENDING FURNACES
- INSULATING GLASS MANUFACTURING LINES
- PROCESSING LINES FOR AUTOMOTIVE AND DISPLAY GLASS MANUFACTURING
- HANDLING EQUIPMENT
- GLOBAL SERVICING & SPARE PARTS
- UPGRADING, REFURBISHMENT, REMOVALS AND RETROFITTING OF EXISTING EQUIPMENT

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Glaston Group
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glasstec

GPM AUTOMATION preview

hall 11 / stand H23

People to contact at our stand

ALESSANDRO GRANDO	**OWNER**
LORIS GRANDO	**OWNER**

GPM automation

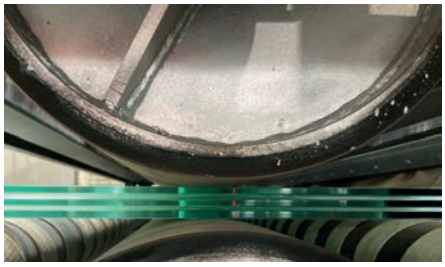
ITALIAN EXCELLENCE

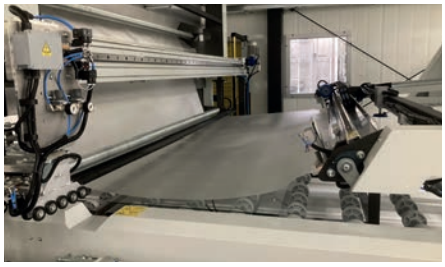
GPM automation is committed to providing innovative solutions in the glass automation and laminated glass production.

GPM automation operates in two main business areas:

1 glass processing machineries: turnkey laminated glass plant; PVB trimming lines after autoclave; horizontal and vertical washers;

2 automation: sorting and stocking systems for glass, window, stone and ceramic tiles; robotic solutions for loading/unloading of third parties lines as insulating glass line, double edger, painting line, vertical CNC line, tempering furnace.







Laminated glass lines with electric press with servo drives, forced air convection ovens, fully automatic PVB application, cutting and trimming



Horizontal washer and tilt table



Harp racks and shuttle for IG line loading



Robot and conveyors for IG line unloading



Robot and conveyors for double edger loading/unloading



Robot for ig loading

Product Range

- LAMINATED GLASS LINE, INCLUDING CLIMATIC ROOM AND AUTOCLAVE
- HORIZONTAL AND VERTICAL WASHERS
- ROBOTIC LINE FOR LOADING/UNLOADING: DOUBLE EDGERS, IG LINE, CNC, TEMPERING FURNACE AND OTHER PROCESSING LINES
- SORTING SYSTEM FOR GLASS AND IG UNITS
- HARP RACKS AND SHUTTLE FOR AUTOMATIC GLASS LOADING/UNLOADING INTO HARP
- ROBOTIC LINE FOR THE TRIMMING OF PVB AND IONOPLAST INTERLAYER ON LAMINATED GLASS AFTER AUTOCLAVE CYCLE

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glasstec

hall 14 / stand A26

HEGLA GMBH & CO. KG

preview

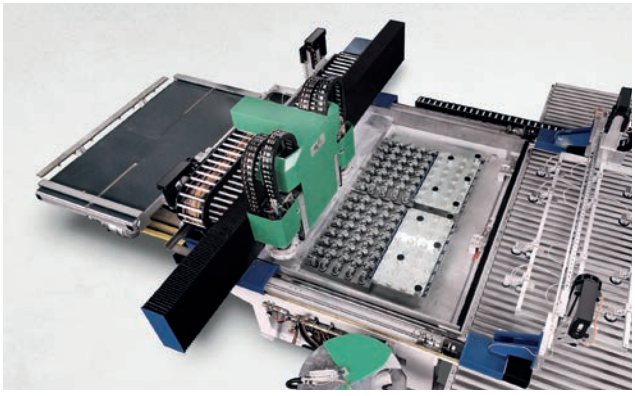


At glasstec, HEGLA is running its machines live at the stand rather than just describing them: cutting, grinding, sorting and polishing glass in front of visitors. This year the fair carries extra weight for HEGLA, whose 50th anniversary falls almost exactly on the same dates. The company began in 1976 as a toolmaking workshop in Lauenförde and today has costumers all over the world. With a number of its own patents and solutions HEGLA counts among the market and technology leaders in its field. At the glasstec stand, also HEGLA-HANIC, HEGLA boraident and HEGLA RS technology present their innovations live – all developed and built with the quality known worldwide as Made in Germany.

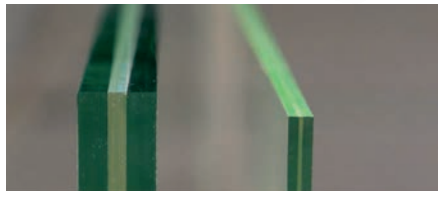
According to Managing Director Toni Schön, customers are currently pursuing two strategies: optimising existing solutions, or moving into market niches to generate additional value. Both come together in the triple insulated glass unit with thin glass as the middle pane: its slim profile and low weight allow energy-inefficient double-glazed units to be replaced with better-insulating triple units in existing window frames, and let new buildings be designed without the need to carry heavy glazing. For glass this thin, down to 0.5 mm, HEGLA has developed its own cutting technology, the Galactic TG, combining an automatic floor loader, the SingleCut TG cutting head and a harp rack transfer system to keep the process reliable.

RetroWinGuard addresses two issues that often surface only after installation, according to Dr Thomas Rainer, head of organisation and development at HEGLA boraident: blocked mobile reception and bird strikes on glazing. A laser can restructure the metallic coating of an already-fitted window finely enough to restore reception without affecting its thermal performance. Separately, once newly planted trees and shrubs mature and begin reflecting in the glass, panes can become a collision hazard for birds; a laser-printed protective pattern can be applied afterwards, even to installed units, and its effectiveness has been tested and certified by the American Bird Conservancy.

The RS 8.14 VSS machining centre from HEGLA RS technology covers edging, grinding, polishing, drilling, milling, internal grinding and step grinding for glass between 1.1 and 19 mm, in single pieces or series production. Glass is positioned on an alignment table outside the machine's working area, so loading and unloading can happen simultaneously. Its VarioSaugerSystem selects the suction cups matching each format and contour automatically, eliminating set-up time; combined with the automatic tool-changing magazine, this lets special glass types be processed at high throughput without manual intervention. A patented multi-channel cooling system dissipates heat even at high spindle speeds, keeping edge quality consistent at high feed rates. For series production, the machine can run in dual-head mode, roughly doubling capacity depending on glass format.



HEGLA, HEGLA boraident, HEGLA-HANIC and HEGLA RS technology: Stand A62, Hall 14.



Product Range

- FLOAT GLASS CUTTING TECHNOLOGY
- GLASS STORAGE AND PREPARATION SYSTEMS
- LASER MARKING AND LASER FINISHING OF GLASS
- INDIVIDUAL SOFTWARE SOLUTIONS FOR GLASS
- COMBINED FLOAT AND LAMINATED GLASS CUTTING MACHINES
- CONVEYOR SYSTEMS
- LAMINATED GLASS SEPARATION TECHNOLOGY
- DYNAMIC STORAGE SYSTEM FOR RESIDUAL SHEETS
- AUTOMATIC BREAKING SYSTEMS
- SORTJET - AUTOMATIC SORTING SYSTEMS AFTER BREAKOUT
- SOLUTIONS FOR INTERNAL AND EXTERNAL GLASS LOGISTICS

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glasstec

HELIOS QUARTZ preview

hall 16 / stand B39

helios quartz®

People to contact at our stand

ARMANDO GIRO CEO
ALESSANDRO TESTA SALES

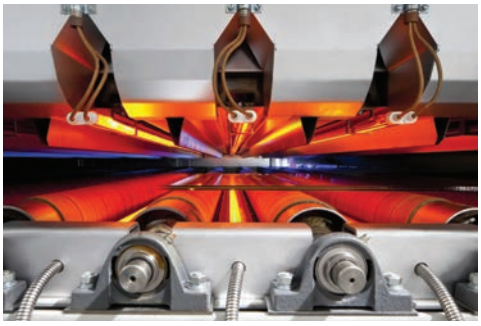
Helios Quartz is an international group with two production facilities in Italy and Switzerland and an established commercial presence in the United States, China and Asia.
A leading company in **quartz processing and the production of infrared (IR) and ultraviolet (UV) lamps**, Helios Quartz also develops specialised equipment for industrial, scientific and medical applications.

Thanks to its extensive experience gained across different sectors and to the presence of a state-of-the-art **Test Centre** at its facility in Milan (Italy), Helios Quartz can directly test customers' materials, analyse specific application requirements and identify the most effective and high-performing solution for each process.
The Group's objective is to be a **technology partner and a point of reference for leading companies operating in the glass industry**, offering expertise, innovation and customised solutions.

• **QUARTZ INFRARED HEATERS**
Helios Quartz offers quartz infrared heaters with **short-, medium- and medium-fast wavelengths**, available in single- or twin-tube configurations, with or without a gold reflector:
- Glass laminating lines
- Screen-printing lines
- Bending furnaces
- Fusion furnaces
- Laminated glass cutting tables
- IR modules that can be integrated into existing production lines.



The IR modules are customised to meet customers' specific requirements, providing **complete solutions that can be easily integrated into existing production processes**.





• **UV POLYMERISATION EQUIPMENT**
High- and medium-pressure UV lamps for the screen-printing drying and curing of inks, paints, coatings and adhesives, for applications in the decoration and furnishing sectors.

• **TIN DETECTOR EQUIPMENT**
UV black-light devices for identifying the tin-coated side of glass. Correct identification is essential before processes such as **laminating, silvering, printing and decoration**.
• **MANWOOD 25-N**: manual equipment for detecting the tin side.
• **AUTOMATIC TIN SIDE DETECTOR**: automatic and compact version, designed to be installed on the production line to check every individual piece of glass. An intuitive PLC enables calibration.



www.heliosquartz.com

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HELIOS QUARTZ GROUP SA: Via Roncaglia 20
6883 NOVAZZANO Switzerland - Tel. +41-919233555/6 - E-mail: swiss@heliosquartz.com

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HORNOS INDUSTRIALES PUJOL, S.A

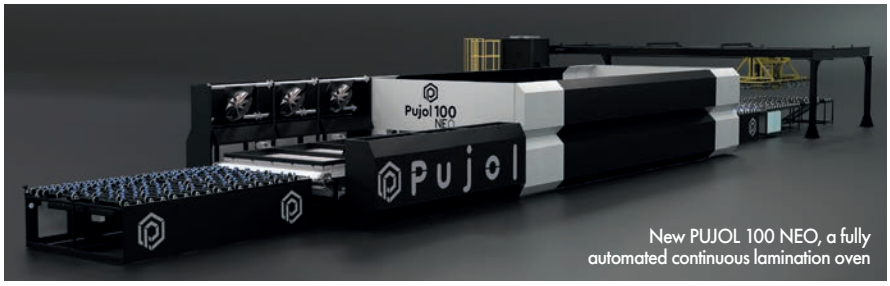
preview

hall 11 / stand K27

Pujol

People to contact at our stand

OUR STAFF WILL BE AT YOUR SERVICE THROUGHOUT THE SHOW.



New PUJOL 100 NEO, a fully automated continuous lamination oven

Pujol, a fourth-generation company with more than 110 years of history, is part of the Pujol Group, a consolidated group specialized in solutions for safety glass, offering a comprehensive portfolio of products and services designed to meet the needs of glass processors in this field. Pujol's offering for the glass industry is structured around three main segments: complete glass lamination systems, glass tempering solutions, and Heat Soak Test furnaces.

At Glasstec 2026, Hornos Industriales PUJOL will present two new technological solutions that open a new chapter in laminated glass production. Two technologies. Two approaches. One common goal: produce more, consume less, and meet the evolving demands of the market.

Pujol will present **PUJOL 100 NEO**, a laminating oven based on the experience of the PUJOL 100 PVB+. The new **PUJOL 100 NEO** is a fully automated continuous lamination oven with a double-vacuum system, developed to optimize the relationship between CAPEX and OPEX and reduce the overall cost of production.

Its design reduces infrastructure and installed power requirements, as well as the need for air conditioning and dehumidification. At the same time, its three independent chambers allow different stages of the process to be carried out simultaneously, optimizing cycle times and maximizing installed capacity.

Automated assembly and production processes reduce handling, downtime, and waste, while energy consumption is adapted to actual production demand. The result is a more efficient cost structure for both small and medium-sized production runs and large-scale series production. **PUJOL 100 NEO** offers a high degree of production flexibility, allowing processors to work with EVA, PVB, and SGP, different sizes and thicknesses, and a wide range of applications.

A technology designed to produce more with fewer resources, optimize investment, reduce energy consumption, and lower the carbon footprint associated with the lamination process.

Pujol will also introduce the evolution of **LAM-PRO with No Clean – No Distortion Technology (NC–ND Technology)**, which eliminates cleaning operations and reduces distortion, optimizing productivity, optical quality, delivering reliable results even in the most demanding applications:

1. Elimination of post-lamination cleaning costs.
2. Improved optical quality of laminated glass: Distortion-free glass, even with thin glass and colored encapsulants. Ideal for advanced applications such as electrochromic, BIPV, and PDLC.
3. One technology. Multiple glass thicknesses: A versatile solution for laminating multiple glass thickness, with consistent quality and performance across multiple applications.
4. Long-term repeatability: Consistent and reliable lamination results, with stable quality over time.

Pujol will also showcase **TEMPER FLEX**, an innovative tempering oven designed to adapt to the needs of each glass processor.

A solution capable of combining high productivity and installed power with the ability to operate with lower energy consumption and reduced power requirements when production needs allow.

TEMPER FLEX is built around five key principles:

1. Return on investment
2. Savings and profitability per m² produced
3. Final product quality
4. Production flexibility
5. Maintenance costs



Lam Pro With No Clean–No Distortion Technology. Patented system

Product Range

- LAMINATION OVENS
- TEMPERING OVENS
- HEAT SOAK TEST
- TRANSPARENT EVA FILMS
- STRUCTURAL POST-BREAKAGE INTERLAYER.
- COLOR EVA FILMS
- PDLC LAMINATED GLASSES.

www.hornospujol.com

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People to contact at our stand

FEDERICO MARCENARO SALES TECHNICIAN

IDROTECNICA
Water Purification Systems

The company will be exhibiting a wide range of demineralised water production systems, among the most widely used in the glass secondary-processing sector. Here Idrotecnica's presentation places water quality, recovery and system configuration at the centre of glass-processing efficiency. Its Cororesi systems are designed to recover and reduce the amount of water discharged from reverse-osmosis demineralisers, both for new installations and for demineralisers already in operation.

Water recovery

The Cororesi range is configured according to each customer's specific requirements and needs, in order to identify the most suitable solution from both a technical and dimensional point of view. In addition to significantly reducing water consumption, Cororesi systems also improve the performance of the main demineraliser. Visitors will be able to see the IDRO RO 130 St, IDRO RO 300ST-VP and FCA50+IR1450St models first-hand. These provide a representative cross-section of more than 120 standard equipment models. One system will also be operating in demo version, enabling Idrotecnica technicians to provide after-sales assistance and technical consultancy. The WSE Filter C450 CP from the WSE Filter range will also be on display. Its compactness, efficiency and ease of maintenance are now well-established features that have contributed to its growing success. The modularity of this model makes it suitable for numerous recirculation applications inside flat-glass washing machines, both when these are installed in an IG line and when they are positioned at the outlet of an edge-processing machine. The WTM RO range will also be presented. This range has recently expanded its available flow rates upwards: in addition to the 6,000 l/h versions, 9,000, 10,000 and 12,000 l/h versions are now available. In this version too, Idrotecnica stands out for its extremely rapid availability times.

System configuration

The company's consultants will be available to configure demineralisation systems and, where necessary, to propose double-pass demineralisers, IDRO RO DPS, for the production of water with even higher purity levels, meeting the quality and precision requirements of glass secondary-processing operations. This new range does not replace the existing ranges, but offers a larger number of models to meet individual requirements. Depending on the type of glass secondary processing involved, such as automotive, LOW-E, laminated glass, coater or tempering applications; the operating regime of the glass-processing machine; and the characteristics of the feed water, Idrotecnica will propose the most reliable solution, customising its configuration accordingly. The proven and well-regarded Industry 4.0 solutions will also be present, enabling remote monitoring and control of demineralisation systems. The combination of advanced sensor technology and Industry 4.0 PLCs makes it possible to provide systems with an advanced diagnostic system, helping users plan maintenance in advance and prevent anomalies.







www.idrotecnica.com

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E-mail: sales@idrotecnica.com

glasstec

ITALCARRELLI SpA

preview

hall 15 / stand F44

ITALCARRELLI®
TOP HANDLING SOLUTIONS SINCE 1962

People to contact at our stand

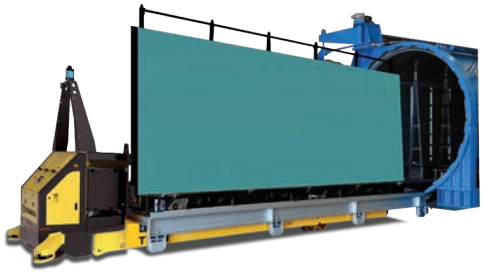
DAVIDE SCHIAVON **SALES MANAGER**



PLATFORM TRANSPORTERS



INLOADER TRANSPORTERS



LAMINATED GLASS HANDLING

ITALCARRELLI - TOP HANDLING SOLUTIONS
Smart working, synergies of value.

Italcarrelli designs and manufactures special machines, technology and accessories for the handling and storage of glass. After many years of hard work, the company has put into practice its idea of smart work. Smart with clients to create personalized machines responding to the precise needs and demands of clients. Smart with suppliers to have the constant availability of top class material and components. Smart solutions both with regards to technology and energy savings. Last but not least, smart for safety each and every day. The company is one of the very few that is able to provide both machines and automatic driving systems and, thanks to the perfect synergy between design department and software development, Italcarrelli's machines have the highest levels of performance and ease of use, with low energy consumption levels.



CONTAINER LOAD/UNLOAD

Product Range

- PLATFORM TRANSPORTERS
- INLOADER TRANSPORTERS
- SIDE-LOADERS
- TAILOR-MADE SOLUTIONS
- CONTAINER LOADING/ UNLOADING
- LAMINATED GLASS HANDLING



SIDE-LOADERS



TAILOR-MADE SOLUTIONS

www.italcarrelli.eu

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People to contact at our stand

ROBERTO FREDIANI	MANAGING DIRECTOR
ADRIANO FREDIANI	CEO
MASSIMO GHITTURI	MEMBER OF BOARD OF DIRECTORS

italmatic®
AUTOCLAVES OVENS & PRESSES

NEW AUTOCLAVES FOR CURVED GLASS AND WINDSHIELD

ITALMATIC, leader in the research, design and construction of autoclaves for various applications, has developed a new generation of advanced and innovative machines for the treatment of curved glass and windscreens.

These autoclaves, the result of research, development and experience acquired over the years, have been designed with the aid of the most sophisticated structural and thermodynamic calculation programs, such as the new dynamic flow simulator C.F.D. (Computational Fluid Dynamics).

In the design, particular attention was paid to energy saving - adopting innovative materials for thermal insulation, high efficiency motors controlled by inverters, heating systems (electric, diathermic oil or steam) with infinitesimal control, as well as new control systems capable of managing power and flow distribution, thus allowing significant reductions in operating costs.

The machine can also be made with two doors, one on each side, to allow the automatic and/or manual introduction and unloading of the glass holder carriages, thereby speeding up the loading and unloading operations, especially for continuous production of both 24/24h and 7/7g.

For a better internal chamber uniformity, according to the different loads and positioning of the glass under treatment, the motor fan units have been positioned in the upper part in direct contact with the heating and cooling exchangers.



This innovation has made it possible to work for defined areas within the chamber, managing each area according to the load and with the best uniformity.

Orientation and modulation of the ventilation, with variation of the fluid transfer speed on the products, ensures that glass quality conforms to even the most restrictive market requirements.

The control system, called **ICS** *(Italmatic Control System)*, allows you to program, supervise and have complete traceability of production batches - both automatically and manually, in order to allow for analysis of all process cycles.

The control system meets every industry 4.0 requirement and can also be interfaced with the company MES.

ITALMATIC has developed and patented an Energy Recovery System IRS® (Italmatic Repower System) that allows the thermal energy removed from the autoclave during cooling to be stored, with the possibility of reusing it in subsequent work cycles.

- Integrated and dedicated Management and Supervision software with real-time measurement of energy savings
- Compliant with **REPowerEU and Industry 5.0 investments**
- Closed circuit cooling system, without water replenishment and or chemical additives

Possibility to further make the system more efficient with the production of domestic hot water

www.italmatic.eu

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glasstec

ITALMOLE SRL

preview

hall 15 / stand G48

ITAL MOLE
HIGH QUALITY POLISHING SOLUTIONS

People to contact at our stand

COMPANY STAFF

Italmole is an Italian manufacturer of polishing wheels for all types of machines and has more than 45 years of activity and experience in the glass industry.

The company is able to offer a complete range of polishing wheels with binder, grit, standard and custom machining for different uses in glass processing.

Since 1978, Italmole has continued to renew its products to ensure the best polishing quality for all customers.

In recent years, through careful research, two new product lines have been created: the peripheral polishing wheel called ASTRA, which is quieter and super polishing, suitable for vertical CNC machines such as VERTMAX, CMS and SKILLGLASS, as well as horizontal machines such as MASTER, CMS and BOTTERO-BIMATECH.

Another new entry is in the cup wheel group, the **ALFA** line. Produced in all grits, with all fixing for all machines, it is available with rigid plastic plate and J40. On request with sectors for laminated glass.

Both types are having great success and excellent results. This is one more confirmation for Italmole, which, over the years, has been able to combine experience and innovation to give pre- and post-sales service and technical support to all its customers.

Visitors to Glasstec 2024 will have the opportunity to learn about the ASTRA and ALFA line and other famous and no less important prod-ucts from October 22 to 25, in Dusseldorf.





www.italmolesrl.com

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glasstec

hall 16 / stand C44

ITECH SRL

preview

MACCHINE PER IL VETRO

People to contact at our stand

AURORA ANDRETTA SALES MANAGER

At **glasstec 2026**, ITECH will present some of its latest solutions dedicated to **efficiency, automation and sustainability** in insulating glass production.

One of the highlights will be **APUS, our dry seaming machine**, designed to completely eliminate the use of water during the edge deletion process. This technology is engineered to work efficiently even on Low-E glass, reducing consumption, maintenance and operating costs without compromising processing quality.

At the exhibition, we will also present our **automatic desiccant filler**, developed to make the loading of desiccant into spacer profiles simpler, more precise and faster. A solution that helps **automate the production process, reduce processing times and minimise manual intervention**.

Two technologies that represent our vision of an increasingly **automated, efficient and sustainable production process**.

Come and discover our latest innovations live!
glasstec 2026 – Düsseldorf | Hall 16 – Stand C44

Product Range

- COMPLETE RANGE OF EQUIPMENT FOR INSULATING GLASS PRODUCTION
- APUS DRY GLASS SEAMING MACHINE — PATENTED BY ITECH
- IGU VERTICAL GLASS WASHING MACHINES AND FLAT COUPLING PRESSES (WITH OR WITHOUT GAS INJECTION SYSTEM)
- IGU AUTOMATED SEALING ROBOT
- COMPLEMENTARY EQUIPMENT: BUTYL EXTRUDERS, TWO-BLADE SPACER CUTTING MACHINE



www.itechsrl.it

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Tel: +39 049 948 5182 - Mobile: +39 347 9217840
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glasstec

KERAGLASS SRL

preview

hall 16 / stand B14/C13

People to contact at our stand

STEFANO SPEZZANI	**FOUNDER, PRESIDENT**
MAICOL SPEZZANI	**CO-CEO, SALES & MKT DIRECTOR**
PAOLO RIGHI	**TECHNICAL & SERVICE MANAGER**
ALESSANDRO COMI	**PROJECT MANAGER**
ADRIANO BRAGA	**SALES MANAGER USA & CANADA**
STEFANIA STUCCHI	**AREA MANAGER ITALY**
SIMONE CECI	**AREA MANAGER EUROPE**
ANDREA BUGADA	**AREA MANAGER USA & ASIA**
FRANCO CAPECCHI	**AREA MANAGER USA & CENTRAL AMERICA**
ALEXANDER KOCHEN	**AREA MANAGER SOUTH AMERICA & MIDDLE EAST**
PATRIZIA DURIAVIG	**SALES SUPPORT**
ORIETTA GUALTIERI, ALESSIA FERRARI	**MARKETING DEPARTMENT**
GIULIA FERRARI	**AFTER SALES**
GIANLUIGI RUFFALDI, STEFANIA VECCHI	**SALES SPARE PARTS**

keraglass

a **voilàp** company

Keraglass at Glasstec 2026: automation, integration and process control at the heart of glass production

At Glasstec 2026, taking place in Düsseldorf from 20 to 23 October, Keraglass will exhibit in Hall 16 – Stands 16B14 / 16C13, with a 756 m² space dedicated to its latest glass processing solutions.

The company will focus on the evolution of industrial processes, combining automation, digitalisation, energy efficiency and intelligent process control.

A new tempering furnace will be presented, designed to ensure thermal uniformity, process stability and high optical quality, including when processing solar-control and low-emissivity glass. Alongside it, a new furnace control system will collect and analyse key process data, providing an overview of production performance, plant status and energy consumption to support faster, data-driven decisions.

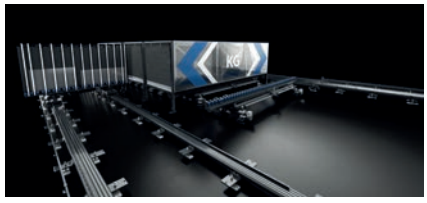
A dedicated software area will showcase Kerasoft MES, a modular suite for the control, monitoring and management of production processes. Designed to integrate machines, data and processes, it supports different plant configurations and levels of automation while enabling a gradual move towards more connected and intelligent production.

The RCK automatic roller-cleaning system will demonstrate how preventive maintenance can simplify routine operations and help reduce downtime.

Also on display will be Vivida, Keraglass's high-definition digital ceramic printing solution for customised glass surfaces, together with an automatic traditional decoration line integrating glass storage and unloading to optimise production flow and reduce manual operations.

A dedicated spare parts area will complete the exhibition, highlighting original components and solutions designed to support plant performance and operational continuity over time.





Glasstec 2026 will therefore present Keraglass's integrated approach, bringing together advanced machinery, automation, digitalisation and software to support glass processors in developing smarter, more efficient and interconnected production models.

Product Range

- **OSCILLATING AND CONTINUOUS FURNACES FOR THE TEMPERING OF ARCHITECTURAL GLASS, HOUSEHOLD APPLIANCE GLASS, SHOWER DOORS AND FURNITURE GLASS**
- **BENDING AND TEMPERING FURNACES**
- **HEAT SOAK TEST FURNACES**
- **SILK-SCREEN PRINTING MACHINES**
- **ROLLER-COATING MACHINES**
- **DRYERS • STACKERS**
- **LAMINATING LINES WITH PVB**
- **MULTI-LEVEL LAMINATING KILN WITH EVA**
- **DIGITAL PRINTING MACHINE**
- **HANDLING SOLUTION**
- **GLASS STORAGE SYSTEM**
- **ROLLER CLEANING MACHINE**

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glasstec

LANDGLASS TECHNOLOGY CO., Ltd.

preview

hall 12 / stand G56

LandGlass
For your next Leap

People to contact at our stand

OUR STAFF WILL BE AT YOUR SERVICE THROUGHOUT THE SHOW.





LandGlass Technology Co., Ltd. is a high tech company specialized in the development and manufacturing of glass tempering furnaces (for architecture, household appliance, automotive and solar power industries) and tempered vacuum insulated glass products. In the field of high-end intelligent equipment manufacturing, LandGlass is able to offer integrated solutions for glass tempering machinery, smart factory upgrade, assisting users to realize elaborate and efficient intelligent manufacturing and management.

Huge R&D investment

Since its establishment, LandGlass has considered innovation as the driving force for the development of the company, which has led to its achievements in R&D and technical progress today.

At present, LandGlass has established an company technology centre equipped with 20,000 square meters of factory floor space for new glass tempering product development and experiments - the largest facility in the industry - in addition, the world-class vacuum insulated glass laboratory established by LandGlass is equipped with more than 100 sets of various R&D equipment and testing instruments worth more than USD 6 million.

Worldwide after-sales support

LandGlass has established a service network with worldwide coverage through technical service centres located in Europe, America, Southeast Asia, India, and Russia, allowing more timely and thoughtful services to its customers around the world. In the meantime, these existing international service network and service centres will have an important role in the future, providing comprehensive and timely after-sales service to LandGlass' customers.

LandGlass' customer service team is responsible for the installation of LandGlass equipment and providing after-sales service. All our service personnel have received formal, systematic training in mechanical and electrical fields. We are available to help customers solve problems anywhere, anytime.

We now invite you to experience the improved safety and quality of life that our latest innovation brings to the market.

We will be at Glasstec at HALL 12 Stand G56.



Product Range

- **OCTAGON™ SERIES GLASS TEMPERING FURNACE**
- **CYCLONE™ SERIES GLASS TEMPERING FURNACES**
- **ULTRAJET™ SERIES GLASS TEMPERING FURNACES**
- **JETCONVECTION™ SERIES GLASS TEMPERING FURNACES**
- **LANDVAC® TEMPERED VACUUM INSULATED GLASS**

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glasstec

LISEC AUSTRIA GMBH *preview*

hall 17 / stand A64

LiSEC

People to contact at our stand

PLEASE ASK AT THE LISEC RECEPTION FOR THE SALES REPRESENTATIVES DEDICATED TO YOUR COUNTRY

LiSEC 65 years of experience shaping the future

From **October 20 to 23, 2026**, our LiSEC experts will be presenting the latest technologies, solutions and innovations from LiSEC.
Visit us in **Hall 17, Booth A64**, and experience how machines, software and services work together to shape the future of flat glass processing.
We look forward to exchanging ideas with you.

Why "65 years of experience – shaping the future"?
For more than 65 years, LiSEC has been driving innovation in the flat glass industry through technologically integrated solutions in machinery, software and services. As your all-in-one partner, we support the planning and realization of highly automated production facilities and provide customers worldwide with innovative technologies and reliable solutions across the entire value chain.

Join us for four days of live experiences, featuring machine demonstrations, expert presentations and practical workshops.
Experience the **TPA-B insulating glass line with the IG-Sort logistics solution**, live laser processing with the **LSP-A**, and discover digital solutions for production planning, material flow and logistics.

Our experts will be sharing their knowledge and insights on various topics.
Celebrate **65 years of experience** with us and discover how LiSEC continues to shape the future of the glass industry.



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glasstec

LITROS preview

hall 17 / stand A64

LiTROS

a brand of the LiSEC group

People to contact at our stand

PLEASE ASK AT THE LISEC RECEPTION FOR THE SALES REPRESENTATIVES DEDICATED TO YOUR COUNTRY

Easy Entry. Strong Growth Potential.

At glasstec 2026, LiTROS will showcase its comprehensive portfolio for industrial flat glass processing in Hall 17, Booth A64.
As part of the LiSEC Group, LiTROS stands for practical, reliable, and economically attractive solutions designed to support glass processors across key production areas.

The idea behind LiTROS is simple: providing straightforward and robust solutions that focus on the essentials. Combining user-friendly operation, proven machine concepts, and practical functionality, LiTROS enables glass processors to establish efficient production processes and build a solid foundation for future business growth. At the same time, customers benefit from the expertise, technological know-how, and global support network of the LiSEC Group.

Today, the LiTROS portfolio covers major stages of flat glass processing. This includes washing solutions such as the LiTROS Horizontal Washer and LiTROS Topclear, cutting solutions including LiTROS Load, LiTROS Float Cut and LiTROS Float Break, processing solutions for edge and internal fabrication, insulating glass production systems, as well as software applications for business processes, production planning, documentation, and production analysis.

A key focus at glasstec 2026 will be the processing portfolio, particularly the LiTROS Combifin. Designed for precise and efficient edge and internal processing, the vertical processing line combines multiple processing steps in a compact production concept. Together with solutions such as LiTROS Topdrill, it demonstrates how LiTROS supports glass processors with practical technology and reliable production performance.

Visitors to the LiTROS booth will have the opportunity to explore the complete portfolio, discuss individual production requirements, and learn more about solutions for washing, cutting, processing, insulating glass manufacturing, and software.

Practical solutions for industrial flat glass processing. Backed by the expertise of the LiSEC Group.



LiTROS Combifin

www.litros.com

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glasstec

MAPPI INTERNATIONAL Srl

preview

hall 16 / stand B25

People to contact at our stand

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ERMANNO PETITTI	SALES MANAGER
ANTENORE TOSELLI	SERVICE MANAGER
GIULIO DALLA COSTA	TECHNICAL DIRECTOR - R&D

MAPPI

a voilàp company

MAPPI SUPERTEMPER™

MEC MAPPI EDGE COMPUTING

MAPPI: power, intelligence, and simplicity. All in one furnace.
MAPPI flat glass tempering furnaces are built on one principle: no compromise between performance and real, measurable energy savings on every production cycle.
We call it **intelligence applied to heat**: powerful, precise and intuitive technology that adapts to the customer's needs, accelerates productivity and reduces waste in everyday operation.
That is why we design and manufacture every furnace entirely in-house, integrating proprietary heating, convection and cooling technologies with the optional **MEC (Mappi Edge Computing) ecosystem** for real-time process control and traceability. Every MAPPI furnace is "**Powered by Siemens**" and ready for full Industry 4.0 integration.
As part of the glass division of the **Voilàp Group**, MAPPI combines the focus of a specialist manufacturer with the industrial strength of an international group.

FOX EVO. Compact size, outstanding performance
FOX EVO is the natural evolution of our compact flat glass tempering furnace, from **1050×2300 mm to 1500×3200 mm**. Full convection and multizone heating control are standard, so the compact format makes no compromise on processing quality, including on Low-E coated glass.
Ready to connect with the MEC ecosystem, and with a completely new design and software interface, FOX EVO optimises every cycle and cuts waste.

ATS LINE. Versatility meets precision
ATS LINE, the evolution of the ATS platform, covers the widest range of formats and applications in the portfolio, with models from 1**500×3800 mm to 2500×5000 mm**. Built for medium to large glass processors, it combines power, uniformity and flexibility across thicknesses and coatings, including Low-E down to **0.01** emissivity.
Full convection, synchronised transmission and intelligent heating control let different batches follow one another without idle time, with lower energy use, shorter cycles and maximum repeatability.

MTH MONOLITH. The benchmark for large formats
MTH MONOLITH is the high-performance solution for extra-large glass, with working sizes from **2500×6000 to 3300×6000 mm**. Designed for architectural applications and high-volume production, it ensures thermal uniformity, reduced optical distortion and top-level mechanical strength.
MEC-ready, with smart thermal management and advanced cooling control.

Efficiency is not a feature. It is the investment.
Like a modern electric car, a MAPPI furnace uses energy only when needed, delivering power on demand or holding performance with minimal waste. With **more than 400 installations worldwide** and furnaces still in operation after **30 years**, our machines are engineered around what they will cost to run over their working life, not what they cost on the day they are sold.

MAPPI and the Voilàp Group
MAPPI is one of the brands of the Voilàp Group and operates within its glass division.



Voilàp Glass brings together technologies covering the processing chain from tempering to laminating, alongside specialised industrial brands serving aluminium, PVC and steel for smart and sustainable construction.

Product Range

- HORIZONTAL TEMPERING FURNACES:
- FOX EVO
  FROM 1050X2300 TO 1500X3200
- ATS LINE
  FROM 1500X3800 TO 2500X5000
- MTH MONOLITH
  FROM 2500X6000 TO 3300X6000
- SUPERTEMPER FIRE RESISTANT GLASS TEMPERING FURNACES
- LAMINATING PLANTS
- HEAT SOAK TEST PLANTS

www.mappi.it • www.mappi.us

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ORSOLA ABBATE	ADMINISTRATION MANAGER
MARIAELENA PICCOLO	SALES DEPARTMENT
FEDERICO MAZZAROPPI	MARKETING MANAGER
CHIARA MAZZAROPPI	MARKETING SPECIALIST
BELLINI GLAUCO	SERVICE DEPARTMENT

MAZZAROPPI
HIGH PERFORMANCE. ALWAYS



THE MAZZAROPPI SOLUTION FOR TEMPERING THAT ISN'T AFFECTED BY ENERGY CRISES

What is the true cost of glass tempering? It's not the furnace.

It's an investment that can be recouped quickly thanks to the surge in productivity it enables. In fact, the most **"dangerous"** cost for companies and glassworks is the **energy bill**.

"Market fluctuations in recent years have been quite marked,' explains Federico Mazzaroppi, Marketing Manager at Mazzaroppi Engineering. 'When it comes to glass tempering, energy costs can be exorbitant given that it is an energy-intensive process."

Mazzaroppi's figures speak for themselves.

An Italian company active in glass tempering since 1958, Mazzaroppi has a worldwide reputation. It has invested over the years to make its furnaces increasingly user-friendly and energy-efficient.

"As early as **five years** after purchasing a tempering furnace, **energy costs** can account for up to **55 % of the total investment**," explains Federico Mazzaroppi. "And this figure rises to 77 % after 15 years." In this example, we are talking about a medium-sized furnace operating on a single shift. With a machinery working two shifts and a further rise in energy costs, this proportion would be even higher. This is the daily reality for many companies operating in the glass industry."

Thanks to this technology, Mazzaroppi furnaces deliver **energy savings** of up to **70%** compared to others. This translates into consistent and significant financial savings when repeated day after day and year after year.



Looking to the future

The Mazzaroppi range offers a variety of solutions to suit different needs. From the TP Compact furnace, which is ideal for those with limited workspace who are looking for excellent tempering results, to the TP Advanced, which offers maximum performance while maintaining low energy consumption.

There are also significant new developments on the horizon, thanks to our constantly active R&D department. "A focus on efficiency continues to drive the development of Mazzaroppi products," says Federico Mazzaroppi. 'In fact, we will shortly be launching a **new range of furnaces** to cover every production requirement, from **medium-sized to jumbo models**, with even lower energy consumption and even higher performance.'



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glasstec

hall 16 / stand B26

NEPTUN SRL preview

neptun
ADVANCED PROCESSING SYSTEMS

People to contact at our stand

MATTEO ROLLA	**SALES DIRECTOR**
STEFANO BAVELLONI	**TECHNICAL DIRECTOR**
ENRICO LANCIONI	**SALES MANAGER**





What's new in Neptun?

Glasstec 2026 will mark the international launch of Neptun's new QUICKEDGE, a high-speed vertical NC machine for glass polishing, seaming and edge processing.

Developed over almost two years, QUICKEDGE is the latest milestone in Neptun's 12-year experience in vertical CNC technology. Designed to work in line with the **Quick2-T10 drilling and milling machine**, it combines productivity, precision, reliability and low maintenance. A polished glass door with cut-outs and two holes can be completed in less than five minutes.

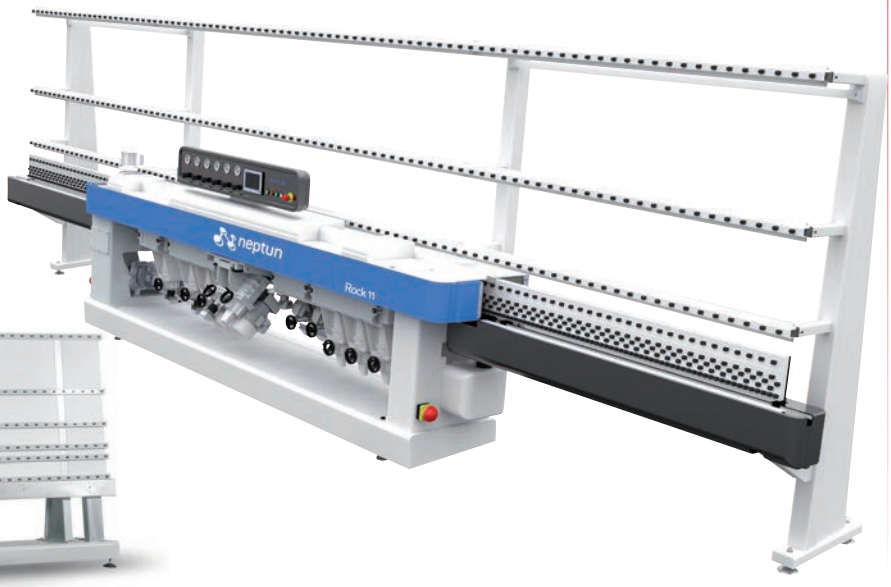
Engineered for intensive **24/7 processing of heavy glass**, QUICKEDGE features a rigid one-piece X-axis suction-cup sliding beam, **Low-E glass processing** through a water cushion system, stainless steel and anodised aluminium components, intuitive software and secure remote assistance via a dedicated black-box system.

Available in **170, 220 and 280 cm working heights**, it is aimed at high-productivity processors and highly automated factories.

Neptun will also present the **QUICKMILL 100-22**, an entry-level vertical NC machine for notches, cut-outs and holes, offering a 1 × 3 m open-top working area, automatic processing and high-quality spindle grinding. Designed for investment budgets below €60,000, it combines compact dimensions with industrial performance.

Completing the display is the **ROCK 11**, an 11-spindle straight-line edger with diamond and polishing wheels, arisses and three rear 45° spindles. Its cast-iron structure, Kevlar conveyor and patented **AWA automatic wheel management system** ensure excellent polishing quality, reduced wheel consumption and minimal maintenance.

Visit Neptun at Glasstec 2026 and discover the next generation of glass processing technology.





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LUOYANG NORTH GLASS TECHNOLOGY CO., LTD. preview

hall 12 / stand A55

People to contact at our stand

**NORTHGLASS SINCERELY WELCOMES YOU TO OUR STAND.
FOR MORE INFORMATION KINDLY VISIT OUR WEBSITE
FOR BUSINESS CONTACTS.**

NorthGlass®

NorthGlass was established by Mr. Gao Xueming, Chairman of the board, in Luoyang National High & New Technology Development Zone on 18th May, 1995. In 2011, NorthGlass created a precedent in the glass deep processing machine industry, going public on the Shenzhen Stock Exchange (stock code: 002613). Today, NorthGlass has developed into a high-tech industry group, integrating R&D, manufacturing, sales and service with continuous innovation capability. It has four bases: in Luoyang, Shanghai, Tianjin and Beijing respectively. NorthGlass has also expanded its product series with tri turbo fans, a glass processing automation system, a glass storage system, a glass cutting machine, etc., now totaling more than 300 product models. At the same time, the NorthGlass Light-Stone business has invested in NorthGlass Co., Ltd., which was successfully incubated, taking the lead in the development of new wall materials for prefabricated green buildings.



GLASS TEMPERING FURNACE

NorthGlass flat and bent glass tempering furnaces have remained at the forefront of the global industry for more than 24 years, since annual furnace sales exceeded 115 units in 2002. To date, more than 6,500 NorthGlass glass tempering furnaces are operating worldwide.

T-Series: Standard equipped with 'Super Symmetric Heating Technology' and 'Intelligent Heating Control Technology based on its glass exit-chamber temperature', T-series tempering

This furnace can produce ultra-high quality tempered glass - all while ensuring large-scale, efficient and stable production.



A-Series: Standard equipped with Advanced Gapless Forced Convection System', 'Intelligent Heating Control Module', 'Advanced Symmetric Heating Technology' and 'Super Flat & Spotless Technology', A-series tempering furnaces can stably and efficiently toughen most glass varieties with any slight deformation or light anisotropy.



B-Series: Standard equipped with new 'NorthGlass Heating Temperature Control System' and 'Standard Gapless Forced Convection System', 'Standard Symmetric Heating Technology', the B-series tempering furnace can significantly improve glass quality & production efficiency - all while reducing energy consumption.



GLASS AUTOMATION SYSTEM

The NorthGlass automation system can supply to the customer a turn-key project. Included in the glass processing machine is not only glass storage, laser printer, cutting table, automatic batching system, tempering furnace, sorting system and conveyors but also NorthGlass ERP and MES software system supply for customers according to the designed solution. We can also customize different glass automation solutions for customers according to their factory size, order type, expected productivity and so on.



COATING MACHINE

Equipped with vacuum sputtering cathode, NorthGlass coating line can be widely applied throughout the glass, consumer electronics and PV industries, among others, from designing to manufacturing.



PROCESSED GLASS

NorthGlass is a leading manufacturer of high-quality architectural glass, with capabilities for glass lengths up to 24 meters, minimum bending radii of 1 meter, and 3D multi-curved glass up to 13 meters. As a pioneer and technology leader in multi-curved tempered glass, NorthGlass continues to push the boundaries of architectural glass processing.

NorthGlass provides high-quality customised glass solutions for standard, oversized, and highly complex applications. Our independently developed technologies have been applied to landmark projects worldwide, including the China National Grand Theatre, Bird's Nest, Lusail Towers, Glasshouse Theatre, Abu Dhabi Airport, OPPO Shenzhen Headquarters, and Mori JP TOWER in Japan.





Product Range

- GLASS TEMPERING FURNACE
- GLASS AUTOMATION SYSTEM
- GLASS STORAGE SYSTEM
- GLASS CUTTING MACHINE
- COATING MACHINE
- PROCESSED GLASS
- CAST GLASS
- GENERAL FAN

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glasstec

R.C.N. SOLUTIONS Srl

preview

hall 12 / stand C45

People to contact at our stand

ELENA CALVI	**CEO & OWNER**
DAVIDE RICCHI	**COO & OWNER**
EZIO CALVI	**SENIOR PRODUCTION MANAGER**
SIMONE VECCHI	**GENERAL MANAGER**
GIANFRANCO RIVAROLI	**CHEMICAL TEMPERING CONSULTANT**
ROBERTA COMETTI	**PUBLIC RELATIONS MANAGER**
MARCELLO LECCHI	**SALES MANAGER**

R.C.N. SOLUTIONS is get ready to be part of Glasstec, bringing its vision and technical solutions to this leader trading fair hub of the glass industry. RCN will focus its production on automatic machines and customizations for all its three lines: laminating machines, bending kilns, chemcal tempering plants

Over the last two years, RCN's automatic machines have experienced strong growth and an increasingly significant market presence, thanks to their performance, innovation, and reliability.

Here is what is new to share: a selection of our latest innovations, created to share what inspires us and what we believe in.

LIA – laminating integrated automation – has been protagonist along 2025 and the same goes along 2026, in different sizes and combinations and additional equipment such as the loading conveyor.

Automatism is the key word to streemline and maximize production, to reduce costs and downtime, provide less waste and better safety. Telemetry integrated in an MES system can grant machinery controls, predective maintenance, real-time production and industrial management. It is a fundamental system to help to reduce operational costs.

RD CLEAN CONCEPT, the patented bag for clean edges after lamination, is really a must in lamination. Performing in all kind of machines and for all types of interlayers, especially with the ionoplastic ones or PVB, it brings additional benefits to the laminated glass, preventing the reduction of the thickness of the interlayer as it happens with standard bags, pressing more on the glass edges thus making the film thinner.

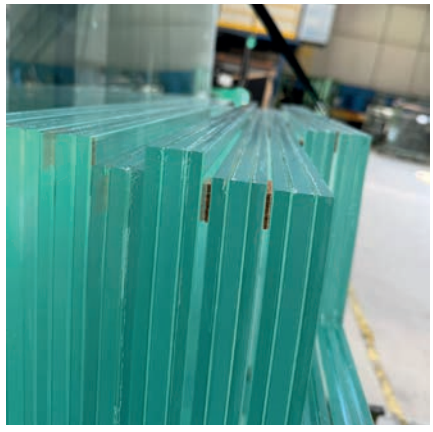
Most important is the choice of the interlayer. For lamination with EVA, RCN's REVA BF responds to all the requirements in matter of lamination of safety glass, fast process and other specifications.

RCN has not eliminated traditional manual machines that are still part of its production.

RCN's bending lines, ROTARY, FLOATING and ECO SPECIAL covers all the requirements in matter of complex glass curves and volumes. The configuration of the plants are higlhy customizable since the system modularity allows different solutions for loading, motion and automation.

All the above is completed by giving more toughness transforming curved or flat glass in safety products.





The chemical tempering fully responds to requirements for glass perfect surface, without distorsions, better mechanical resistance, easy matching for lamination. That's why chemical tempering is now a must in the luxury naval industry where special and exclusive products are required.

"RIVA by RCN" comes from a long-terms cooperation of RCN with an expert in chemical tempering systems who gave rise to the CT chemical tempering line and the following developments.

The demand for high-performance glass is increasing and RCN is ready to offer technical solutions: energy cost reduction, smart automation, production flexibility, digital integration.

Most of all, the easy operator approach of RCN's machines is the result of making the man-machine interface more intuitive, reducing operational faults and maximizing output.

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hall 16 / stand C34

People to contact at our stand

GIULIO MANDRUZZATO GENERAL MANAGER
MICHELE FASSINA SALES MANAGER

Rollmac a division of Gemata

Rollmac, a division of Gemata Spa, is a dynamic company attentive to the market demands and a reliable partner in the supply of printing and enameling machinery; from the single rollercoater up to complete lines.

Main products for the Glass sectors are:
x +39 0445 490111

"Multiglass" roller coater

It is the most flexible unit, with the possibility to mount up to 4 printing rollers on a revolver.

A complete range of engravings to coat wet enamel thicknesses between 15 and 220 micron in a single enamel layer.

The cleaning operation and colour change take a max time of 15 minutes.

The machine is available to a max size of 2.600 mm

"Colorglass" roller coater

Lean and simple rollercoater, with the possibility to mount one printing roller.

A complete range of engravings to coat wet enamel thicknesses between 15 and 220 micron in a single enamel layer.

The cleaning operation and colour change take a max time of 15 minutes.

The machine is available to a max size of 2.600 mm

"Jumboglass" roller coater

Rollercoater designed for the printing and enamelling of jumbo size.

It offers the same results of the other models but on a larger scale.

"GlassLine" edge printer

Rollercoating line designed to print only the edges of the glass sheet.

It can be equipped with the optional "Automatic Sheet Rotation". This device is designed for the complete automation of the process, where the printing of the four sides takes place in autonomy, with no intervention by the operator.

The ASR process is particularly useful for those coating glass sheets which are too large, too heavy or which cannot be handled manually.

"GlassDrier" IR oven

Infrared tunnel drier suitable for organic and ceramic paints.

It is fully controlled by electronics to guarantee the maximum temperature stability and optimize the performance.

It is available in modules of 2,2 mts length and a size up to 3.400 mm.

Product Range

- ENAMELLING AND GLASS COATING MACHINES
- DRYING SYSTEMS
- EDGE COATERS
- CONVEYING SYSTEMS



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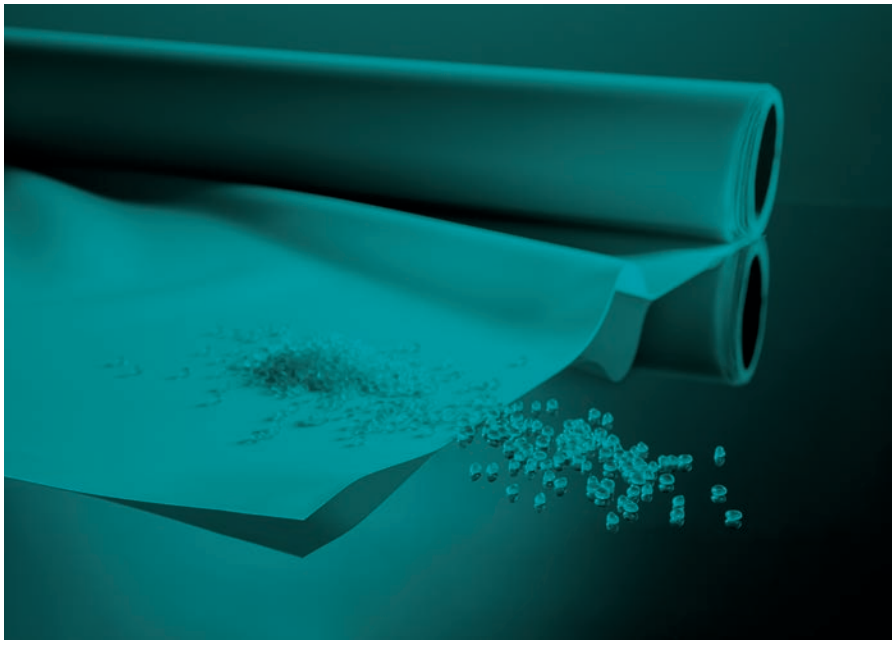
glasstec

hall 11 / stand A54

STRATO® preview

STRATO
glass interlayers

Satinal S.p.A. is the first EVA film production hub in Italy. With four extrusion lines producing interlayers for architectural safety glass, Satinal is a recognized benchmark in Europe for the supply of 100% Made in Italy STRATO® EVA interlayers.
Featuring an extensive selection of 20 coloured finishes designed to provide a comprehensive portfolio tailored to diverse applications, the deployment of STRATO® also signifies enhanced safety and security. In the event of glass breakage, the interlayer holds the sharp fragments firmly in place, preventing the dispersal of potentially harmful splinters and maintaining the structural integrity of the glazed element until replacement. Furthermore, when laminated between glass sheets, the STRATO® EVA film provides comprehensive UV-radiation screening. This critical feature prevents the degradation and fading of interior furnishings, artwork, and finishes caused by ultraviolet exposure.
To validate its market leadership and ensure the highest standards of quality, safety, and sustainability, the company has achieved prestigious international recognitions. In 2022, STRATO® achieved ISCC PLUS certification thanks to the introduction of the STRATO® Carbonlight™ product range.



STRATO® obtained the certification with an extraordinary carbon footprint score of just 1.13 kg CO_2 eq, compared to the 4.5 kg CO_2 eq of its best potential competitor. One year later, STRATO® obtained the official "100% Made in Italy" Certification, guaranteeing the authentic Italian origin and superior quality of the product.
In recent times, Satinal set a new benchmark for sustainability in the EVA film industry by obtaining the first-ever Environmental Product Declaration (EPD) for both STRATO® Glass Interlayers and STRATO® Solar PV Encapsulants. STRATO® is the only EVA on the market to achieve such a prestigious validation. Verified by the Athena Sustainable Materials Institute, this declaration is a testament to Satinal's ongoing commitment to providing the global market with products that are both high-performing and environmentally responsible.
This EPD holds international validity, providing transparent and verifiable data on the products' cradle-to-gate environmental performance. These achievements are the result of a robust European supply chain developed by Satinal over more than a decade, alongside strong strategic partnerships with international chemical leaders and suppliers.

SATINAL

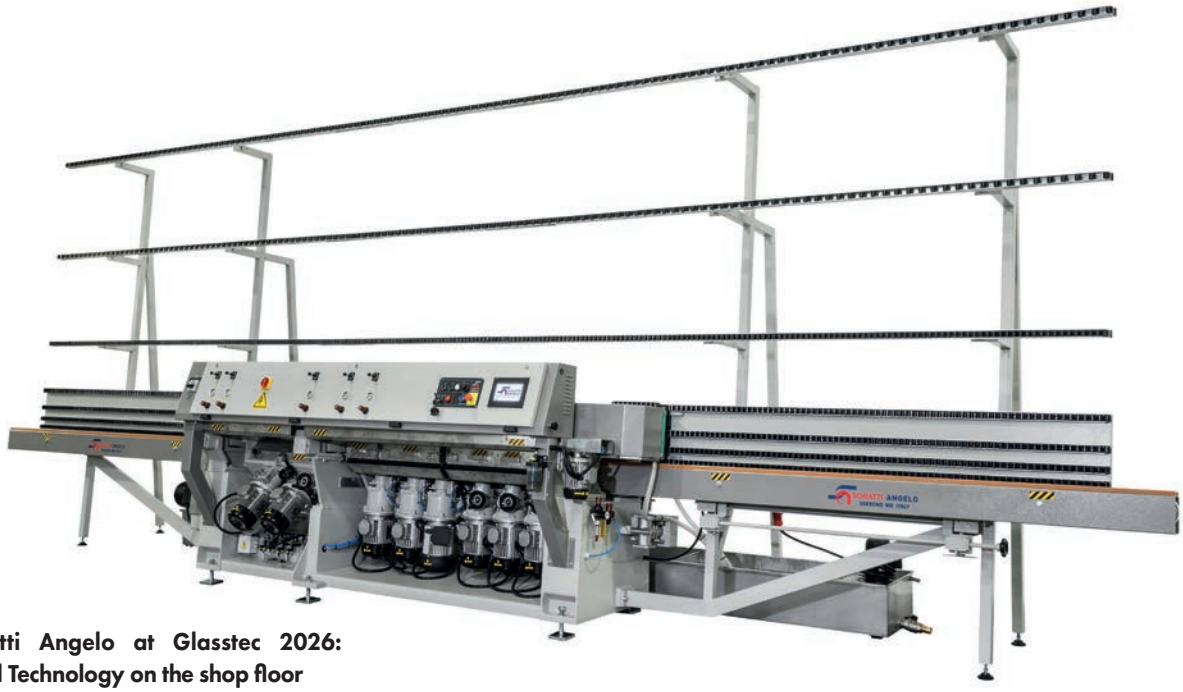
Via del Lavoro, 1 - 22036 Erba (CO) - Italy
Tel.: +39 031-870573
E-mail: info@satinal.it
www.satinal.it

hall 16 / stand A14

SCHIATTI ANGELO
TRADITION, EXPERIENCE, INNOVATION

People to contact at our stand

ALESSANDRO SCHIATTI PRODUCTION MANAGER
CINZIA SCHIATTI SALES MANAGER
COMMERCIAL AND TECHNICAL STAFF



Schiatti Angelo at Glasstec 2026: Tailored Technology on the shop floor

A new grinding or drilling line is a fifteen-year decision. Uptime, spare parts availability, energy draw, maintenance cycles — decisions that outlast most business plans. At Glasstec 2026 (Düsseldorf, 20–23 October, Hall 16, Stand A14), Schiatti Angelo brings two releases that show what its Tailored Technology approach delivers on these fronts

TFV1600 — Vertical drilling and milling machine. For operators losing hours a week to tool changes, the TFV1600 cuts that time by 50% compared to the previous generation. The automatic tool changer with integrated sharpener runs uninterrupted; the closed-bridge structure holds precision across the full 3–19 mm range, laminated glass included. Fewer stops, cleaner holes, less rework.



SME10 — Variable angle straight grinding machine. Rubberised-pad transport on tempered-steel guides reduces friction by 80% versus traditional sliding systems, removing vibration from the equation and stabilising edge quality across long runs. The 0°–45° angle is managed via touch-screen PLC. Predictive diagnostics halve routine maintenance. Cerium oxide polishing on flat edge and arris. Full cycle on 17.7 kW with closed-circuit water cooling — energy and consumables under control.

Two machines, two different jobs, one engineering logic: electronics and controls do their part, but the long-term result sits in the mechanical platform. A frame that stays true, wear surfaces that don't drift out of tolerance, a maintenance curve that stays flat rather than climb after the warranty runs out. That is what a fifteen-year investment horizon looks like, and what Tailored Technology means in practice.

Visitors can see both machines in operation at **Glasstec 2026 (Düsseldorf, 20–23 October), Hall 16, Stand A14.**

glasstec

hall 15 / stand F27

SCHIAVO Srl

preview

People to contact at our stand

MICHELE SCHIAVO	**GENERAL MANAGER**
EDUARDO PRIULI	**MARKETING AND SALES**

SCHIAVO
Italian technology





For over 50 years, Schiavo has designed, built and tested every machine at a single site in Italy — 100% Made in Italy, with 100% Italian and European components. Over 5,000 machines are now running in more than 50 countries.

Washing: vertical and horizontal washing machines, built entirely in stainless steel — from compact washers for small glassworks to full lines for high-throughput production.

Milling: the FV-Series brings CNC notching, inner cuts and corner cuts in-house, importing shapes directly from .dxf and .dwg files, with a built-in, expandable shape library.

Storage & Handling: patented storage systems in manual, semi-automatic and fully-automatic versions, paired with vacuum lifters, manipulators and package unloaders compliant with EN 13155.

Assistance: service calls go directly to the engineers and technicians who built your machine, who decide the intervention with you — spare parts ship immediately.

Product range: vertical/horizontal washing machines, vertical milling, storage systems, vacuum lifters, manipulators, automatic loaders/unloaders, cutting tables, drilling machines.



Product Range

• VERTICAL WASHING MACHINES
• HORIZONTAL WASHING MACHINES • VERTICAL MILLING MACHINES • STORAGE SYSTEMS • AUTOMATIC CUTTING TABLES
• AUTOMATIC LOADERS/UNLOADERS • VACUUM LIFTERS
• MANIPULATORS • DRILLING MACHINES

Visit us at our stand, or schedule a 30-minute meeting in advance for more comfort:

https://zcal.co/schiavo/30min

www.schiavotech.com - www.schiavolift.com

Via Cave Ticino 10 - 20020
Robecchetto con Induno (MI) - Italy Tel.: +39-0331-890645
E-mail: info@schiavotech.it

glasstec

hall 16 / stand A38

SKILL GLASS preview

SKILL GLASS made for glass
VERTICAL CNC CENTERS

OVER 25 YEARS Since 1999

People to contact at our stand

OUR STAFF WILL BE AT YOUR SERVICE THROUGHOUT THE SHOW
E-D 101 - DRILL 1600FF - MILL 1600 SHOWN AND AVAILABLE FOR DEMO

SKILL GLASS The Italian specialist in Vertical Numerical Control machines. Find us at the2026 edition of GLASSTEC - Halle 16 Booth A38.

Get in touch with our specialists in the world of glass processing machines. We will be happy to present our entire range, divided into four main families:

1. E-D Ragne, Full CNC in both SKILL E-D and E-D 101 configurations
2. DRILL Range with 4 machines for drilling and milling
3. SFILL Range is Edge processing with the 3 super-fast and super-competitive models, all with 2 synchronized heads
4. Washing machine – SKILL WASH to complete the processing Lines.

Dozens of unique solutions, designed to give your machines great reliability, precision in processing, and reduced maintenance requirements.



• **MILL 1600** is an automatic numerical-controlled vertical machine for drilling and milling on flat glass panels.

Equipped with a single head located at the front, is easy to use, fast... and comes at a surprising price for Glasstec

• **E-D 101** is a 2 x 10 Kw spindles vertical machining center that enables a variety of machining operations, speedily and accurately.

The spindles are served by 2 tool racks with 10+10 positions

The machine is 9 axes allowing you to perform any type of processing on square or shaped glass sheets, incorporating the best technology for grinding, drilling, and milling in vertical.



• **DRILL 1600FF** is a double head 5-axis numerically controlled vertical drill for drilling holes, inserts and countersinks on flat glass sheets with a thickness from 3 to 20 mm. The machine is equipped with two electro spindles (front and rear), mounted opposite each other, allow working with a tailstock system for perfect glass drilling and milling.

This vertical unit is capable of operating with extreme speed and precision, supported by a double tool rack



• **SKILL WASH** is a vertical washing machine for automatic washing and drying of squared and shaped glass sheets with a thickness from 4 to 30 mm. The machine is completely stainless steel made and consists of a 4 or 6 brushes washing section and a pair of high-pressure blowers in the drying stage. All of the technical and automation solutions in the SKILL WASH represent the best the market has to offer.

www.skillglass.it

Via Egidio Gregori, 2 - 36015 Schio (VI) - Italy
Tel.: + 39-0445-500-202

glasstec

hall 12 / stand D35

SOFTECO OY

preview

softeco

People to contact at our stand

TIMO SUOMI
MIKKO SUOMI
SALLA SUOMI
REIMA MÄKINEN

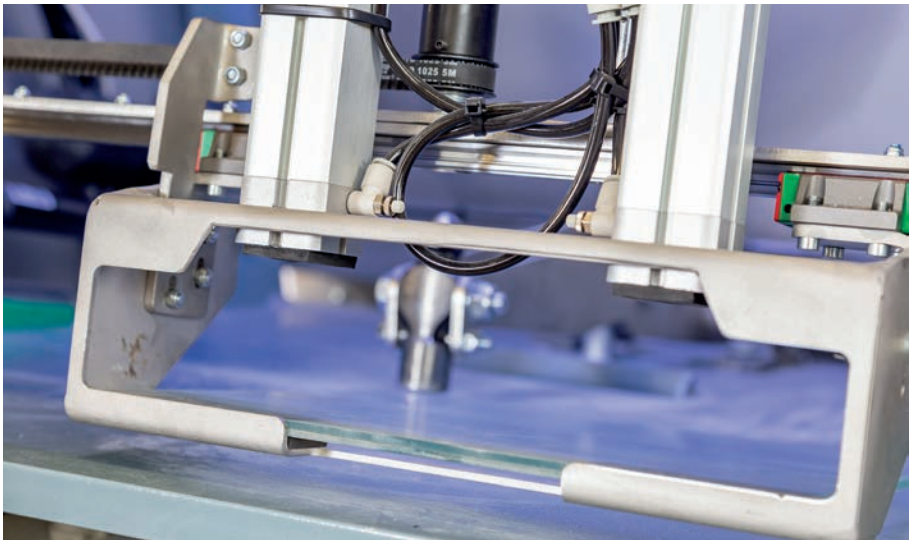
Strong with 35 years' experience, **Softeco** specialises in PVB conditioning: flattening, stretching, shaping, as well as cutting and roll handling. In addition to this, we offer consultancy in safety glass production and quality control. We arrange complete testing services with official test reports as well as applications to the granting authority for approvals for ECE R43 and American DOT

E 17

CE



PVB shaping and cutting line



Automatic pummel tester for laminated glass testing

Product Range

- PVB CONDITIONING, HANDLING, STRETCHING AND CUTTING
- QUALITY CONTROL EQUIPMENT FOR GLASS AND PLASTICS
- ECE R 43 AND DOT ANSI Z 26.1 APPROVAL SERVICES
- TESTING SERVICES FOR SAFETY GLASS ACCORDING TO DIFFERENT NORMS

www.softeco.com

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E-mail: info@softeco.com

glasstec

hall 16 / stand B40

STUDIO 1 AUTOMAZIONI INDUSTRIALI Srl

preview

People to contact at our stand

MARCO BAROZZI
BARBARA RIGHI
ANDREA LOMBARDI
MANUEL CIAMARONI



SHAPE YOUR FUTURE
Automation Meets Customization

The glass industry is preparing for its most important event of the year.

From **October 20 to 23, 2026**, Messe Düsseldorf will once again become the global meeting point for the glass industry with **Glasstec 2026**.

Studio 1 Automazioni Industriali is pleased to announce its official participation as an exhibitor.

You can find us throughout the event in **Hall 16, Stand B40**.

ADVANCED CUSTOM AUTOMATION SOLUTIONS

For us, Glasstec is much more than an exhibition: it is an opportunity to meet, exchange ideas and explore new possibilities together.

Visit our stand to meet our engineers and sales representatives and discover how our automation technologies can be integrated into your production systems to:

- improve the quality of your final products;
- increase operational efficiency;
- reduce production costs;
- minimize waste;
- enhance process continuity and safety.

Studio 1 Automazioni Industriali is a technology partner specializing in process automation and in the design and integration of turnkey automated solutions.

Established in **1984** as an engineering studio for automatic machinery in Italy's Motor Valley, Studio 1 became a manufacturer of machines and automated plants for industrial processes in **1990**.

Today, with customized machines and systems installed in more than 50 countries worldwide, Studio 1 continues to expand its international presence.

Combining **technical consultancy, system integration and process expertise**, we support companies in developing customized automation solutions designed to improve **operational efficiency, safety, production continuity and ROI**.

SHAPE YOUR FUTURE

Automation Meets Customization is the central theme of our presence at Glasstec 2026.

At our stand, we will showcase some of our latest developments, including:

- **automatic systems for unloading cutting tables**;
- **innovative feeding systems for tempering lines**, featuring dynamic sorting technology;
- a **robotic cell designed to optimize workflow**, enabling a single robot to operate two vertical grinding lines simultaneously.

These innovative solutions have been filmed directly in production at our customers' facilities, providing a real-world view of their applications and benefits.

We look forward to welcoming you to our stand for a valuable exchange of ideas, new opportunities and, of course, some pleasant moments together.

See you at Glasstec 2026!









www.studio1srl.it

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E-mail: studio1@studio1srl.it

glasstec

SYSTRON preview

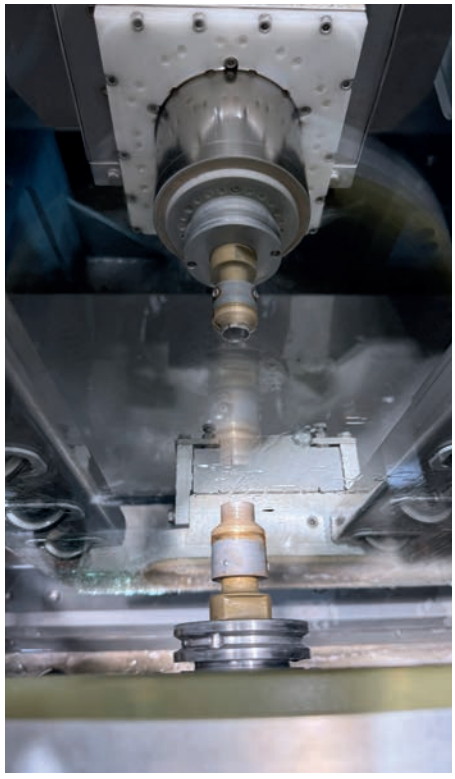
hall 15 / stand E44

People to contact at our stand

FRANZ SCHACHNER, THOMAS HAAN, MIROSLAW KWIATKOWSKI, MICHAEL MEISINGER, ALL SYSTRON PARTNERS

systron GLASS TECHNOLOGIES





At glasstec 2026, systron puts the **proMD Milling & Drilling Centre** in the spotlight. Designed for flexible vertical processing, the proMD combines seaming, grinding, polishing, drilling, countersinking and milling – and optionally waterjet cutting – in a single clamping process.

A major advantage is **double-sided processing**. Separate front and rear spindles enable drilling, countersinking and milling from both sides without turning or reclamping the glass. This reduces handling and allows demanding processing steps to be combined efficiently.

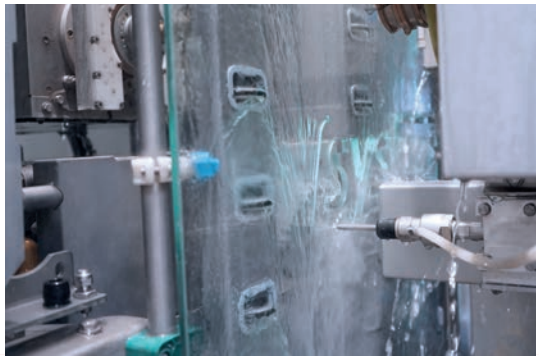
At the heart of the machine is systron's **patented water cushion technology combined with integrated force measurement**. The glass is supported without mechanical contact with sensitive or coated surfaces. The rear water cushion also acts as a counterholder, reduces vibrations and provides efficient cooling during drilling and deep countersinking – supporting precise and reliable processing.

Additional highlights include:

- Optional integrated waterjet for complex cut-outs and contours
- Automatic tool measurement and maintenance
- Flexible tool magazines with up to 130 tools
- EASY MODE for automated processing of rectangular glass

Beyond glass, the proMD offers extensive possibilities for ceramic processing: external and internal edge processing, miter joints, countersinking and rebate milling from both sides, brushing, blind holes, drip grooves, engraving and complex contours. The optional waterjet provides additional flexibility for cut-outs and individual shapes – with multiple processing steps completed in a single clamping operation.

The proMD combines **flexible machining, double-sided processing and a wide range of applications for glass and ceramics** in one compact vertical system.



Product Range

- **SYSTRON PRO**
  CNC EDGE PROCESSING CENTRE
- **SYSTRON PROMD**
  MILLING & DRILLING CENTRE – OPTIONAL WATERJET
- **SYSTRON ESX**
  VERTICAL SEAMING & GRINDING
- **SYSTRON WM**
  WASHING & DRYING STATION
- **AUTOMATION SOLUTIONS**
  PORTAL LOADING, STORAGE, ROBOT LOADING, HARP RACK & L-RACK AUTOMATION

www.systron.at

Pfarrwald 47 - 3354 Wolfsbach - AUSTRIA
Tel. +43 7477 / 44 152
E-mail: office@systron.at

glasstec

TALAMONI SRL

preview

hall 10 / stand C36

TALAMONI
YOUR PARTNER FOR GLASS CUTTING

People to contact at our stand

TOMASINO TALAMONI	**OWNER**
ROSELLA MITIDIERI	**EXPORT MANAGER**
ING. MARCO CATTANEO	**R&D DEPARTMENT**
ILARIA MANETTI	**SALES**



With 32 years of activity in the glass sector, Talamoni Srl. will be taking part in glasstec for the 14th time. Throughout the four days of the exhibition, the team will be at the stand to present the company's latest developments, listen to customer requirements and help identify solutions aimed at high-performance production targets. An Italian manufacturer of cutting wheels and cutting heads for glass, Talamoni has built its reputation on consistency, quality and innovation. At first glance, these tools may appear simple. In practice, the tungsten carbide cutting wheel remains the most widely used tool on the glass cutting bench today. As cutting machines become more advanced, precise and fast, cutting heads also have to evolve in line with the demands of modern cutting tables

At **Talamoni**, extensive testing has been conducted to optimize wheel edge finishing in order to guarantee clean, precise scoring. A range of edge roughness levels has been developed to offer professionals the most suitable tool for achieving the ideal result: **a sharp, clean cut**.

We have also invested in research to identify the most **effective carbide blends**, ensuring extended wheel life and minimizing the need for frequent tool changes-a key time-saving advantage for glass processors-without increasing product costs.

At Glasstec 2026 Talamoni will be presenting the complete metallic wheel holder for cnc machines,:

- New Wheel Holders

Designed and manufactured entirely in-house, our wheel holders are user-friendly and affordably priced. The latest additions - The CP, B50 TA439-CSH AND TA45 models – simplify wheel replacement and are easily mounted on the cutting table.

- DSG Cutting Wheel Finish

A **newly-developed wheel** finish, created and tested in collaboration with major Italian and international glass manufacturers. The **DSG finish** enhances the cutting of laminated, stratified, and coated glass, delivering precision and ease in breaking glass sheets. This finish is now available across the entire Talamoni cutting wheel range.

- Updated Glass Cutters

Our line of glass cutters has been completely renewed. Improvements in the cutter head materials allow for smoother wheel movement.

The company will also be showcasing:

- **VB CUT** and **OSCUT**, featuring ergonomic plastic handles;
- SICUT, with a metal handle, suitable for cutting glass from 1 to 10 mm;
- **SICUT GP**, designed for thicker glass from 12 to 19 mm;

All four models come equipped with the **Diamond** wheel, available in different finishes according to the intended application.

Cutting oils and lubrificants:

Completing the Talamoni product range are four specialized cutting oil formulations:

- T-OIL3125 - slow evaporation oil
- T-OIL3130 - medium volatility oil;
- T-OIL3133 - complete evaporation oil;
- T-OIL3132 - specifically formulated for low-E and coated glass cutting.
- TA400/E sintetic complete evaporating oil ideals also for e-low glass an coated glass cutting.



Special Glasstec 2026 Promotion

Talamoni will be offering a special promotion on the **DSG S** automatic cutting wheel line and on our **manual cutting** tools. We invite visitors to experience first-hand the quality and value of our Made in Italy products - where innovation meets tradition.







www.talamoni.com

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glasstec

TECNOCAT 21 SL *preview*

hall 10 / stand C48

TECNOCAT
GLASS MOVEMENT

People to contact at our stand

COMMERCIAL TEAM: +34 609 58 22 12
OUR STAFF WILL BE AT YOUR SERVICE THROUGHOUT THE SHOW

TAILORED GLASS-HANDLING SOLUTIONS SINCE 1997, FROM FACTORY TO INSTALLATION

With more than 29 years of proven experience, Tecnocat is recognized as a global reference in advanced handling, lifting and storage solutions for the flat glass industry. Since its foundation, the company has followed a clear strategic vision: to help glass processors, industrial manufacturers, construction companies and façade specialists move glass more safely, efficiently and with greater control, through reliable solutions engineered around real operational needs.

The company designs and manufactures a comprehensive range of solutions including motorized, automatic and manual vacuum lifting systems, lifting solutions and lightweight crane systems, as well as dedicated handling and storage equipment. These solutions are developed to handle glass of different sizes, weights and formats with maximum precision, stability and reliability, while reducing manual handling and operational risk. A key differentiator of Tecnocat is its engineering-led customization capability. The company combines standardized, field-proven systems with tailor-made solutions adapted to each customer's workflow, space constraints and safety requirements. Customization extends to machine configuration, automation level and system integration, ensuring longterm efficiency, scalability and ease of use. Safety, reliability and durability are engineered into every Tecnocat solution from the outset. Through rigorous design criteria, high-quality components and robust manufacturing processes, the company ensures predictable performance, long service life and reduced downtime. By combining automation, modular design and tailored engineering, Tecnocat develops solutions capable of adapting to changing production and installation requirements.









www.tecnocat.com

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E-mail: info@tecnocat.com - jjunggren@tecnocat.com

glasstec

hall 12 / stand E41

TEKNIK ELMAS IMALAT SAN.TIC.LTD.STI.

preview

People to contact at our stand

SERVET TOPALAN	**CHAIRMAN OF THE BOARD**
YAŞAR YERLIKHAN	**BOARD MEMBER**
HASAN TOPALAN	**BOARD MEMBER**
YUSUF ALDIRMAZ	**EXPORT SALES & MARKETING MANAGER**

TEKNİK ELMAS



Teknik Elmas: Pioneering Glass Processing Tools

Teknik Elmas is one of Turkey's leading manufacturers of glass processing tools. Since 2004, Teknik Elmas has been offering competitive and innovative solutions to the glass industry. The company's domestic success has extended internationally, establishing a strong presence through reliable distributors and business partners across the globe.

High-Performance Tools for CNC, Double Edger, and Straight-Line Edging Machines

Teknik Elmas specializes in producing high-performance tools for horizontal and vertical CNC machines, double edger machines, and straight-line edging machines. This range has earned the company a solid reputation within the global glass industry.

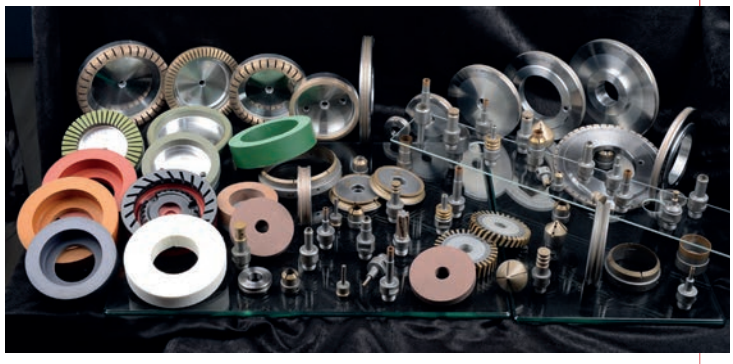


Advanced Solutions for the Automotive Industry

In addition to its accomplishments in standard glass processing, Teknik Elmas has expanded its expertise to serve the automotive industry, manufacturing monoblock drill bits for high-tech machinery. These monoblock drill bits are supplied to numerous global brands, further establishing Teknik Elmas as a leader in precision tools.

Join Teknik Elmas at Glasstec 2026

This year, Teknik Elmas will showcase its tooling equipment alongside Tesir Makine at Glasstec 2026 in Düsseldorf. Visit us at Hall 12, Booth 12E41 to experience our cutting-edge tools first-hand and explore new business opportunities and partnerships. We warmly welcome all visitors to share in this exciting event!



Product Range

- DRILLING TOOLS
- COUNTERSINKING TOOLS
- MONOBLOCK DRILL BITS
- CUP WHEELS FOR EDGERS AND DOUBLE EDGERS
- PERIPHERAL GRINDING WHEELS
- POLISHING WHEELS
- BEVELING WHEELS
- **PREMIUM SERIES GRINDING WHEEL**

www.teknikelmas.com

Akçaburgaz Mah. - 3080.Sokak No: 3 Kıraç,
Esenyurt, Istanbul 34522 - Turkey
Tel.: +90-212-4855960 - Mob.: +90-542-5003463 - E-mail: export@teknikelmas.com

glasstec

hall 12 / stand E45

TESİR MAKİNE SAN.TIC.LTD.STI.

preview

People to contact at our stand

SERVET TOPALAN	**CHAIRMAN OF THE BOARD**
YAŞAR YERLIKHAN	**BOARD MEMBER**
HASAN TOPALAN	**BOARD MEMBER**
YUSUF ALDIRMAZ	**EXPORT SALES & MARKETING MANAGER**

Tesir Makine: A Leading Name in Glass Processing Solutions

Tesir Makine is one of Turkey's prominent glass processing machinery manufacturers. Since 2014, Tesir Makine has breathed new life into the glass industry with its innovative solutions as it continues to expand both domestically and internationally.

With a young and dynamic structure and strong investments in R&D, Tesir Makine is steadily growing through cutting-edge innovations.

Join Tesir Makine at Glasstec 2026

This year, Tesir Makine will showcase its latest advancements at Glasstec 2026 in Düsseldorf. Visit us at **Hall 12, Booth 12E45** to experience our cutting-edge machinery firsthand and explore new business opportunities and partnerships. We warmly welcome all visitors to share in this exciting event!

Note: The live demonstrations of our operating machinery at our stand during Glasstec 2026 will feature the **HG, VT, SV**, and **SK** series.

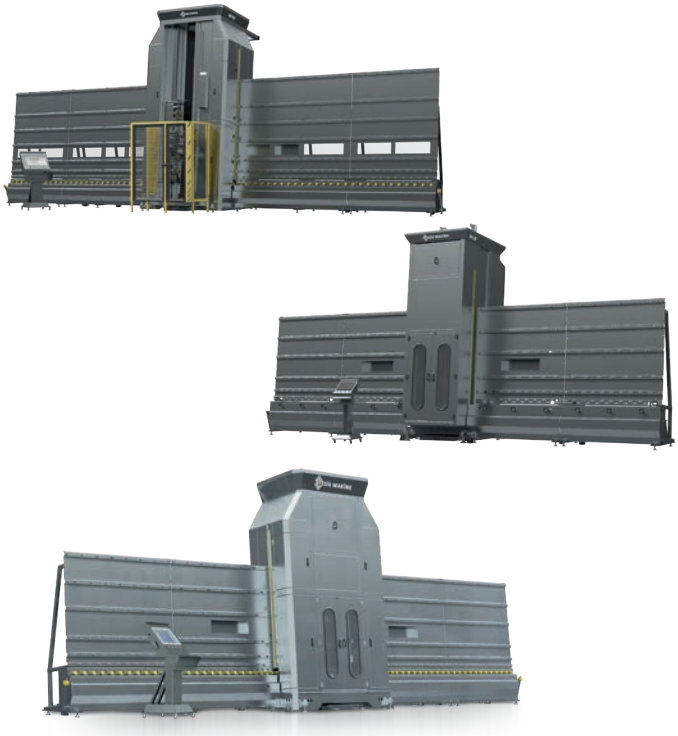
Tesir Makine's Full Product Range & Updated Specifications

- HG SERIES VERTICAL CNC MACHINE (DRILLING + MILLING + COUNTERSINKING + GRINDING + POLISHING)
- VT SERIES VERTICAL EDGING MACHINE (SEAMING + GRINDING + POLISHING)
- SV SERIES VERTICAL FAST SEAMING & GRINDING MACHINE (SEAMING + GRINDING + [OPT: POLISHING])
- HS SERIES VERTICAL DRILLING MACHINE (DRILLING)
- SK SERIES VERTICAL WASHING MACHINE (WASHING + DRYING)
- HD SERIES DOUBLE HEAD DRILLING MACHINE (DRILLING + COUNTERSINKING)
- RD SERIES SEMI AUTO DRILLING MACHINE (DRILLING + COUNTERSINKING)
- ST SERIES CROSS BELTS SEAMING MACHINE (CROSS BELTS SEAMING)

Standard Model Configurations for Vertical Series (HG, VT, SV, and SK)

The HG, VT, SV, and SK model vertical machines are available in 4 distinct sizes:

1. **H2000 x L3000 mm**
2. **H2500 x L4000 mm**
3. **H2500 x L4000 mm**
4. **H3300 x L6000 mm**



Tesir Makine's Full Product Range

- **VT MODEL CNC VERTICAL SEAMING & GRINDING AND POLISHING MACHINE**
- **HG VERTICAL CNC MACHINING CENTRE**
- **SV VERTICAL SEAMING AND GRINDING MACHINE**
- **HS MODEL VERTICAL DRILLING MACHINE**
- **SK MODEL VERTICAL WASHING MACHINE**
- **BD 400 HORIZONTAL DRILLING MACHINE** (FOR SHOWER GLASS)
- **ST 200 HORIZONTAL SEAMING MACHINE** (BELT-TYPE)
- **RD 100 MANUAL HORIZONTAL DRILLING MACHINE**

www.tesirmakine.com

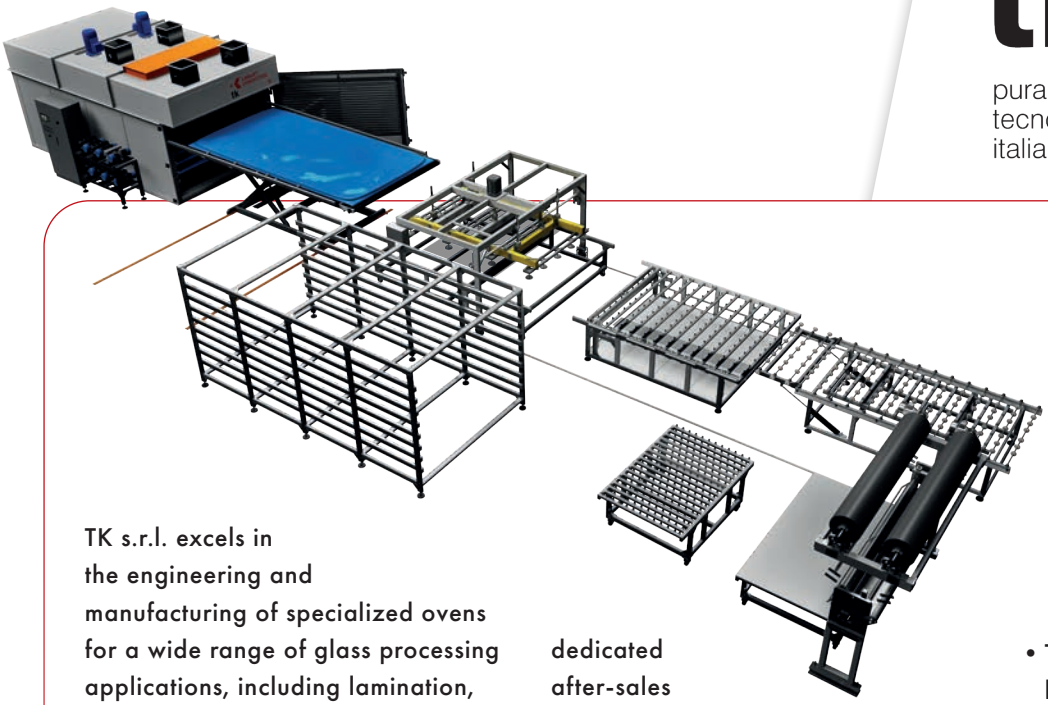
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glasstec

TK preview

hall 11 / stand A54

tk
pura
tecnologia
italiana



TK s.r.l. excels in the engineering and manufacturing of specialized ovens for a wide range of glass processing applications, including lamination, tempering, chemical tempering, Heat Soak Testing, and TK ONE—the ultimate automated lamination system.

The Company's extensive portfolio is designed to cater to the requirements of both mid-sized and large enterprises looking to launch new production lines, scale their output, or enhance the quality of their finished goods. By partnering closely with clients, TK ensures the highest industry standards by utilizing premium Italian technology and European-sourced components. This commitment allows TK to consistently deliver high-performing solutions.

To guarantee the most fitting and personalized outcome, TK employs a proven methodology focused on meticulous attention to detail at every stage: initial requirement gathering, custom solution development, equipment design and manufacturing, on-site installation, comprehensive staff training, and dedicated after-sales support.

Discover the TK product range:

- TK Lamijet: laminating ovens featuring precise heating and vacuum technology to bond glass layers, ensuring flawless structural integrity and optical clarity
- TK Convection: the one and only full convection technology on the market, featuring intelligent fast curing, balanced heat distribution, and automatic fast cooling for crystal-clear transparency at the end of the cycle
- TK Tempering: core machinery engineered to significantly increase the mechanical strength and thermal shock resistance of toughened glass
- TK Chemical Temper: an ion-exchange chemical bath process, ideal for achieving maximum strength on ultra-thin glass or complex shapes
- TK HST: a testing oven that subjects tempered glass to precise temperature cycles, safely eliminating the risk of spontaneous breakage due to Nickel Sulfide (NiS) inclusions
- TK ONE: an automatic glass lamination system designed to process EVA, PVB, SGP, and TPU without the need for an autoclave. TK ONE precisely controls temperature uniformity, heating ramps, dwell times, and cooling profiles, allowing each interlayer to be laminated within its optimal process window inside a single machine architecture.



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E-mail: ask@tkitaly.com

www.tkitaly.com

glasstec

TORGAUER MASCHINENBAU GMBH

preview

hall 15 / stand G05

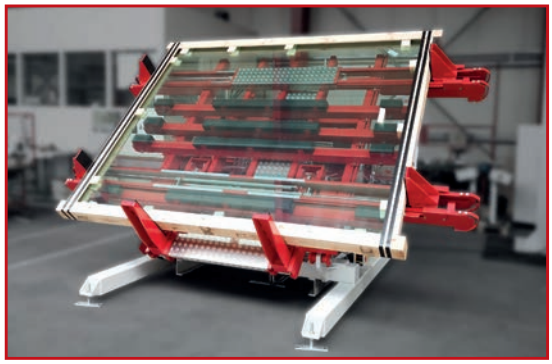
tmb
Torgauer Maschinenbau

People to contact at our stand

OUR STAFF WILL BE AT YOUR SERVICE THROUGHOUT THE SHOW.







Expertise and innovation are our strength

Since its founding in 1991, **Torgauer Maschinenbau GmbH** has established itself as a modern and flexible enterprise with a permanent position on the national and international markets.

Due to the many years of specific experience in the field of special engineering for the glass industry, our company has been able to develop an exceptional expertise in 3 core areas.

- Machines and plants for the flat glass industry
- Machines and plants for the photovoltaic industry
- Handling and Logistics equipment for flat glass and photovoltaics

The focus is on technologies and automation systems for all types of flat glass, from smallest glasses to XXL glasses, from ultra-thin glass to super-thick glass. We offer fully automated, efficient complete solutions for this. But also transport and handling equipment to support your production and test equipment such as Heat-Soak-Test furnaces are in our range.

Our individual and customized solutions according to the customer's wishes guarantee an economic production and optimal production processes at the production facilities of well-known manufacturers of special glass or photovoltaic products.

Due to the personal commitment of our highly qualified employees, innovative concepts, solid constructions and a reliable service, our company has developed into a globally sought-after and successful partner. Most of our products are exported all over the world, with our machines and plants currently up and running in 67 countries.

The application of state-of-the-art IT technology for the development and production of our equipment, such as 3D CAD system, robot simulation, 3D printer and ERP system for operational control, creates optimal conditions for high product quality.

Two modern production halls guarantee the efficient manufacture and assembly of complex machines and plant systems with the highest quality of work.

Since 1994, we have been regularly presenting the continual and dynamic development of our products at the most important fairs of the special glass industry, such as glasstec/Duesseldorf, Vitrum/Milan, China Glass and other exhibitions.

Product Range

- **AUTOMATION FOR THE FLAT GLASS AND PHOTOVOLTAIC INDUSTRIES**
- **CONVEYING AND LINKING EQUIPMENT**
- **FEEDING AND STACKING EQUIPMENT**
- **PHOTOVOLTAIC TECHNOLOGY**
- **THIN GLASS TECHNOLOGY**
- **LAMINATED GLASS TECHNOLOGY WITH CASTING RESIN AND FOR FIRE RESISTANT GLASS**
- **CONTROL AND TEST EQUIPMENT FOR FLAT GLASS PRODUCTION**
- **HANDLING SYSTEMS**
- **GLASS TRANSPORT AND STORAGE EQUIPMENT**
- **PACKING EQUIPMENT**

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TRIULZI CESARE SPECIAL EQUIPMENTS Srl

preview

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LOW-E HORIZONTAL COMPACT WASHER - ENERGY EFFICIENCY WASHER WATER SAVINGS - BATCH LOADING

- Made entirely of stainless steel
- Working width 2,800mm size
- Heated water tanks
- Conductivity water sensor for water control, cascaded water flow
- Auto water tanks cleaning (option)
- Antistatic bar fitted
- Remote control
- Bevel gear transmission
- Very silent operations



VERTICAL CLOSED TOP - HEAVY STRONG THICKNESS

- Made entirely of stainless steel
- Working height 2,600 mm - to be integrated in line
- Automatic thickness adjustment
- Low Emissivity glass detection with frequency control
- Complete with high pressure pre-wash section with tank
- Heated water tanks
- Controlled by PLC and touch screen operator panel
- Very silent operation
- scanner control integration (option)

SMART TALC COATING & WASHING LINE FOR CURVED AUTOMOTIVE GLASS

Not exhibited at the show, but available for presentation and technical discussion through simulations.

LOW CONSUMPTION MAXIMUM YIELD

Product Range

- OPEN AND CLOSED TOP VERTICAL WASHERS
- HORIZONTAL WASHERS FROM MINI TO JUMBO SIZE
- AUTOMATED SYSTEM FOR CURVED GLASS
- WET POWDER APPLICATION SYSTEM FOR AUTOMOTIVE
- ULTRASONIC BATH GLASS WASHING EQUIPMENT
- FIREPROOF GLASS WASHING EQUIPMENT
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- INSULATING GLASS LINES
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TUROMAS preview

TUROMAS
OUR PASSION, YOUR PROGRESS

With more than 40 years of experience, TUROMAS designs and manufactures comprehensive solutions for the glass industry, including smart storage and automatic loading systems, float and laminated glass cutting machinery, and software for production management.



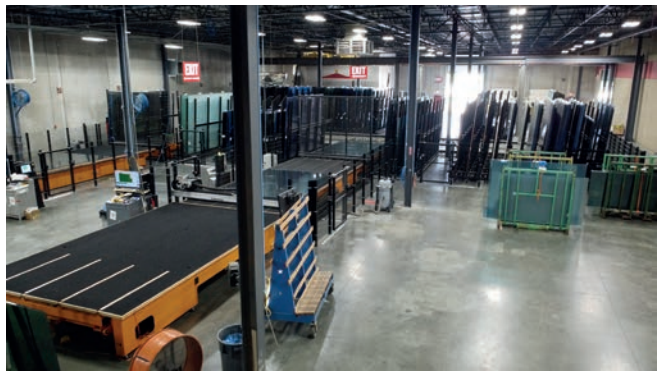
Among its developments for laminated glass cutting is the LAM 600, a compact and automated line that integrates loading, positioning, cutting and unloading operations. It can process laminated glass up to 12+12 mm and incorporates TUROMAS technology designed to reduce cycle times and improve cutting precision.

The evolution of these lines is moving towards increasingly flexible configurations that can adapt to different materials, production rates and workflows. As part of this approach, TUROMAS develops mixed lines capable of processing both laminated and monolithic glass within the same installation, avoiding the need to dedicate a separate line to each type of glass.

Configurations with two in-line laminated glass cutting bridges extend this capability. The arrangement of the cutting bridges and intermediate sections allows the different operations to work

Product Range

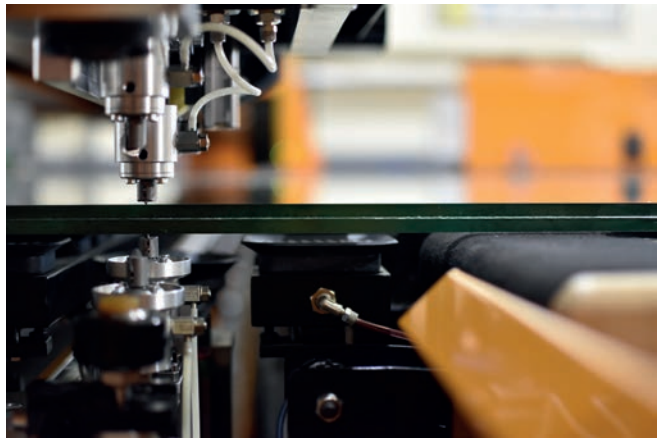
- **SMART GLASS STORAGE AND LOADING SYSTEMS**
- **FLOAT GLASS CUTTING SYSTEMS**
- **LAMINATED GLASS CUTTING SYSTEMS**
- **CUSTOMIZED PROJECTS**



independently or in synchronization, adapting the glass flow to the requirements of each production run. This makes it possible to manage different working sequences, reduce waiting times and maintain process continuity.

For automatic storage and loading, TUROMAS offers its LA loaders and SR, LR and SG smart storage systems. These solutions automate glass selection, handling and loading and can be adapted to the space, capacity and requirements of each factory. Their connection to the cutting lines reduces manual handling and ensures a continuous supply of glass.

TUROMAS complements these solutions with software for the real-time planning, visualization and control of storage and cut-



ting processes. Communication between the different systems helps coordinate each production stage, improve traceability and provide operators with up-to-date information on the status of the installation.

Behind every installation is a complete project: requirement analysis, solution development, manufacturing, assembly, commissioning and training. Once production begins, technical support remains part of the solution throughout the equipment's service life.

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THE ARCHITECTURAL GLASS COATING EVERYONE IS TALKING ABOUT

For more than 50 years, Unelko has pioneered nanoscale coating technology designed to preserve, protect, and enhance glass and other hard surfaces. Its Invisible Shield® PRO 15 Glass Coating is a high-performance factory- or field-applied protective treatment that helps maintain the appearance, performance, and value of glass for years after installation. Unelko, whose motto is "We don't make glass, we make glass better," specializes in durable glass coatings, stain removers, and specialty cleaning products for glass and other surfaces.

Their Original Invisible Shield® and Invisible Shield PRO 15 Coatings chemically seal the microscopic pores of glass, protecting the surface from soil, stains, minerals, acid rain, pollution, and other contaminants. The glass coatings are well known for their ease of application, durability, and long-term resistance to soiling, staining, scratching, etching, pitting, and other environmental corrosion. **They reduce excess soiling, stains, and corrosion, and significantly reduce the need for repairs, replacements, and frequent cleanings, offering substantial savings in time, labor, and maintenance costs.**

Unelko's top commercial glass product brands include the **INVISIBLE SHIELD®, INVISIBLE SHIELD PRO 15, REPEL® Cleaner & Repellent, GLASS SCRUB® Stain Remover, CX Limescale Remover, and NEW SCALE X™**, which they market in more than 60+ countries to help manufacturers, processors, distributors and suppliers offer improved appearance, glass preservation and an easier cleaning solution for their glass.

Glass companies worldwide are using the Invisible Shield or IS PRO 15 coatings on projects that require enhanced protection, including high-end residential, commercial, and architectural applications on shower doors, windows and façades, glass walls, mirrored glass, partitions, entryways, shopping centers, malls, hotels, airports, condominiums, offices, mid- and high-rise buildings, and solar panels.

Unelko's testimonials from leading glass companies speak for themselves:

"Our glass-industry experience spans 40 years globally, representing manufacturers of all types of architectural glass. Unelko's glass coatings are cutting-edge technology. Their durability, scratch and abrasion resistance exceeds that of other coatings we have evaluated, and the products have helped us earn the trust of prominent names in the glass industry."





"We have seen increasing demand for glass protection across residential, commercial, and architectural projects. After comparing the available coatings for interior and exterior glass, Invisible Shield PRO 15 delivered the strongest combination of quality, performance, and value. Simply put, it is the best protective glass coating in the world".

"The Invisible Shield products are phenomenal. We use the IS product on glass almost daily for glass treatment. In today's business climate, we need products that help us function efficiently and deliver quality glass and cleaning performance to our customers. The Invisible Shield Glass Coating fulfills those needs."

"We have expanded significantly with hundreds of ongoing projects, and we are targeting major government contracts. We have continuously recognized the reliability and performance of Unelko's coating products, which have played a vital role in our growth and reputation."

Unelko continues to expand its coating business globally, earning the trust and serving hundreds of glass companies and projects that rely on Invisible Shield and IS PRO 15 to preserve, protect, and maintain the appearance of glass. The company serves customers in aerospace, automotive, marine, commercial, architectural, residential, and the solar-glass industries.

The beauty of the Invisible Shield Coatings lies in their versatility; they can be applied to any glass or ceramic surface in various ways—manually, semi-automatically, or automatically. Their unique fine atomized metal sprayers or compact, dual-sided MICROBURST™ coating machine enable continuous application of the Invisible Shield, with features like an adjustable feed rate, robotic fine mist, and overlapping coating for even coverage. The MICROBURST has a final rinse station ensures the glass is perfectly clean and ready for shipping or installation.

All Unelko Products are PFOS & PFAS Free, and Environmentally Compliant

Visit Unelko at Glasstec in Düsseldorf, Germany, Hall 11, Exhibit 11J47

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unelko.com/
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People to contact at our stand

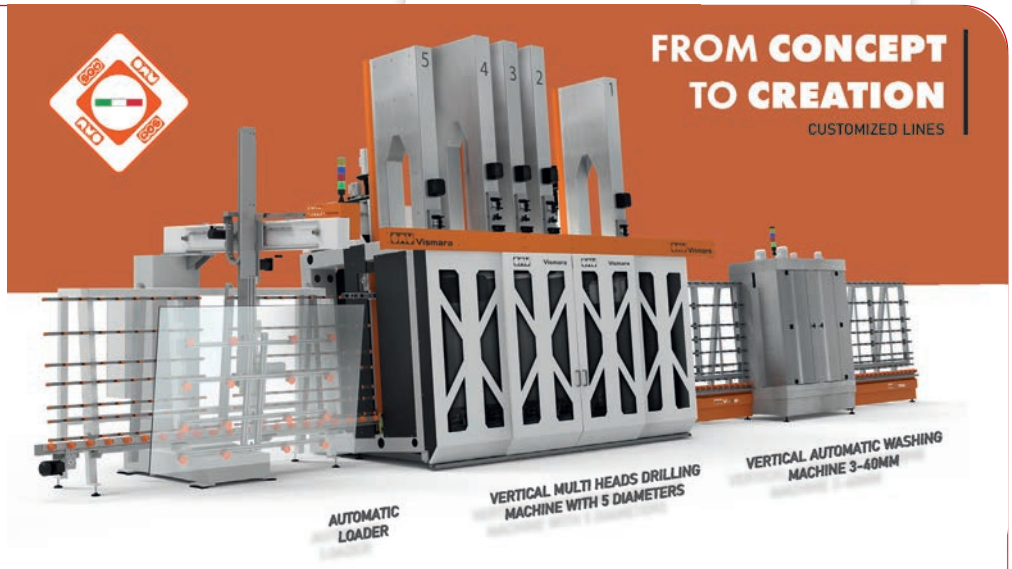
OUR STAFF

OMV Vismara, a long-established company in the flat glass processing machinery industry, is enriching its product range so that customers can have a single point of contact when purchasing production lines.

In addition to vertical drilling and milling machines, it now offers filleting and grinding machines as well as washing machines.

The entry of this "new generation" into the company has made it possible to expand the study of the new product range and has made it easier for customers to choose a single supplier for the processing line, or even to turn to new ones.

Special complete vertical lines for processing doors, shower enclosures, and other glass that require polished edge grinding, but also allow for easy processing of batches of individual pieces, as the market currently requires, as well as for mass production batches.



The various machines can also be integrated later, to allow those who need them to defer the investment over several years, but the project is studied at the beginning to improve the quality of the final product.

The supply of special machines, directed to customers who carry out special processing is always the focus of the studies of the company ,which designs the most suitable solutions to specific requests from customers.



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VITROSEP, S.L. *preview*

hall 15 / stand G21

VITROSEP

People to contact at our stand

ALEIDA GUINART SALES DEPARTMENT
SABINE CADORIN SALES DEPARTMENT

Water treatment and sustainable development

In a world in constant change and climate emergency, a large part of the measures adopted or demanded are the reduction of water consumption.

Water recycling in the glass industry and quality assurance are key to achieving optimal use and contributing to the conservation of the planet.

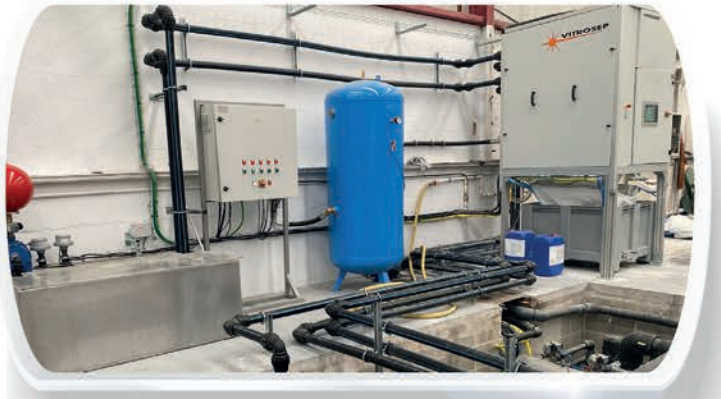
The VITROSEP water treatment and solutions portfolio is one of the most technologically advanced and specialized available in the glass market. In addition to offering a wide range of particle separators based on filtration processes, VITROSEP brings innovations in the field of optimization and control of water treatment parameters.

Digitization technologies such as new computer processors, sensors and the internet of things are indispensable for data collection. They help to ensure good water management and provide information in real time, allowing a broader view of the operation of infrastructures. Consequently, this type of technology makes it possible to proactively control and operate in front an action or technical problem reducing consumption and costs.

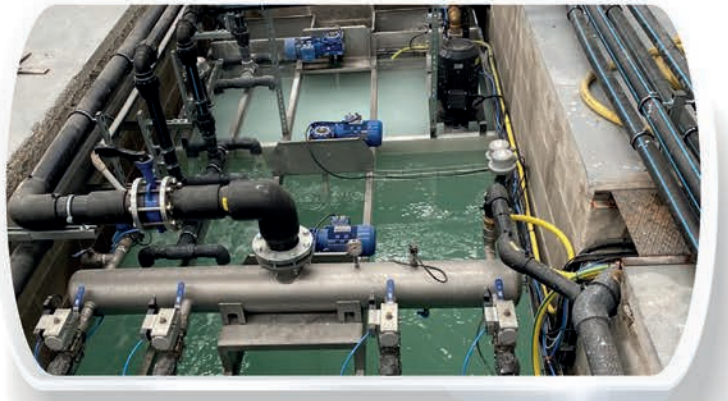
Another benefit of data management and analysis of the installations is the minimization of water losses due to leaks and high consumption of additives. VITROSEP helps the customer to make the systems, both in the use of resources and in the impact on the environment, providing a sustainable and quality service to all its customers.

In this regard, VITROSEP's commitment to sustainability will be on full display, with a dedicated area showcasing their eco-friendly water treatment processes, aimed at reducing the environmental impact of glass production.

VITROSEP will be located in Hall 15, Stand G21. There you will find all the new products including the CC11-300 glass particle separator, the most compact of the range in terms of size and performance. VITROSEP's booth will also be a hub of knowledge exchange, where industry professionals can engage with VITROSEP's team of experts and gain invaluable insights into the latest trends of the glass sector.







www.vitrosep.com
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hall 13 / stand A31

ZIPPE preview

INDUSTRIEANLAGEN GmbH

People to contact at our stand

DR PHILIPP ZIPPE CEO
ANDREAS EMRICH CTO



Our core business is the development and construction of batch and cullet plants.

We pride ourselves on being amongst our customers' most reliable partners with the infrastructure, expertise and capabil-ity to deliver projects of any magnitude.

As one of the few full-service providers in our industry, our spectrum covers all service areas within plant construction – engineer-ing, planning, design, produc-tion, automation technology, installation, site management for all disciplines, com-missioning, training for per-sonnel, and services for ongoing operations.

Be it flat glass or hollow ware, Zippe batch plants ensure that the batch for every glass type is fully automatically fed into the furnace with the exact consist-ency and homogeneity needed, at the required amount and at the right point in time – 24 hours a day, every day.

State-of-the-art control technology is a key element for optimal operation of a batch plant. There are around 40 Zippe automation and control systems special-ists hard at work for you. This means we are one of the few companies able to develop complete control systems in-house.

Our 24-hour support service ena-bles our customers to contact an expert around the clock either by phone or email.

Zippe has been focused on the future for more than 100 years and, having realized well over 690 batch plant pro-jects, has the longest standing experi-ence in our industry sector.

Zippe – right from the start.

Product Range

- BATCH PLANTS
- CULLET PLANTS
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GLASS MACHINERY PLANTS & ACCESSORIES is a bi-monthly periodical with about 100 pages of product news, current world news, focus on..., technical articles and dossiers, worldwide exhibitions, glassworks in the world, Yellow Pages, etc.



1989

Glass-Technology International

GLASS-TECHNOLOGY INTERNATIONAL is the leading international magazine for professionals involved in the flat and bent glass industry, from building to automotive, and from furniture to household appliances. **G-TI** is useful for those working in float glass plants as well as glass processors/fabricators, glazing contractors, automotive glass installers, window and door manufacturers, glass merchants, wholesalers, etc. With about 100 pages per issue, it is the bi-monthly tool for keeping abreast of new technology, new products, company life and all innovations in the world of flat and bent glass.

Annual Guides



1990

Glass Industry Directory 2025

The **GLASS INDUSTRY DIRECTORY** is a unique international annual guide which gives a complete overview of international glassworks and suppliers involved in hollowware and special glass manufacturing. About 300 pages of complete company profiles: addresses, management, sister companies, plants, number of employees, turnover, banks, year of company foundation, capital, trademarks, areas of activity, innovations, product-by-product and country-by-country breakdowns. The **GLASS INDUSTRY DIRECTORY** is the annual reference point for the international glass manufacturing industry comprising bottles and containers, domestic glassware, tubing, vials and ampoules, lighting glassware, technical and industrial glassware, scientific, laboratory and medical glassware and much more.



2013

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The **FLAT GLASS WORLD DIRECTORY** is a unique international annual guide providing a complete overview of glassworks and suppliers for the flat glass sector. More than 150 pages of company profiles and information about worldwide glassmakers, glass processors and suppliers, including addresses, management, sister companies, plants, number of employees, turnover, banks, year of company foundation, capital, trademarks, areas of activity, innovations, sales network, exhibitions, and, of course, interactivity in digital format, make the **FLAT GLASS WORLD DIRECTORY** the annual reference point for the international flat glass industry.

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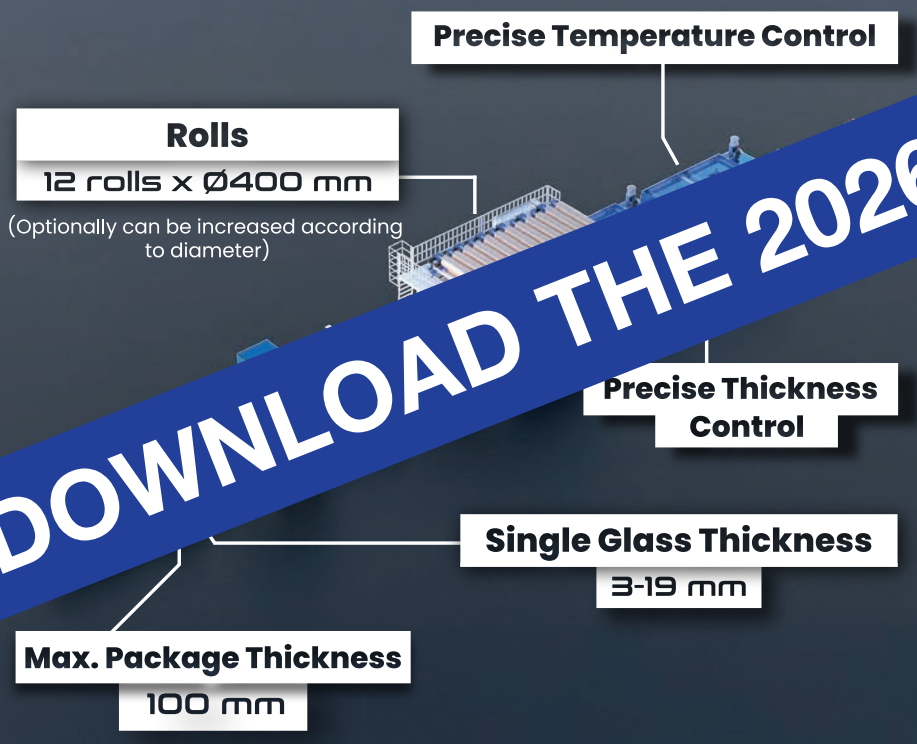
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FLAT GLASS

2026 world directory

LAMINATED GLASS PRODUCTION LINE BLM



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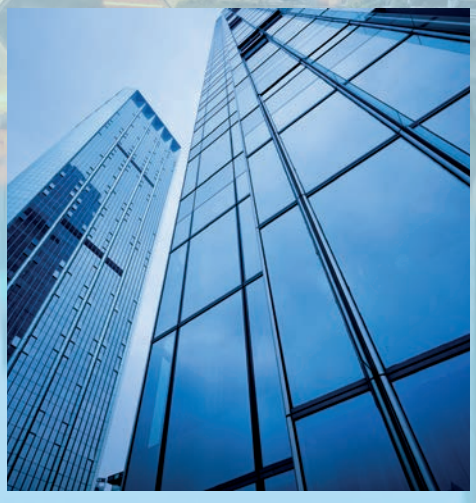
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