

Glass-Technology International

THE LEADING MAGAZINE FOR THE INTERNATIONAL FLAT GLASS INDUSTRY

February/March • Year 37 • No. 1/2026

glass technology

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GLASS**

HOW **HEGLA** IS
IMPROVING
SHOPFLOOR
GLASS FLOWS

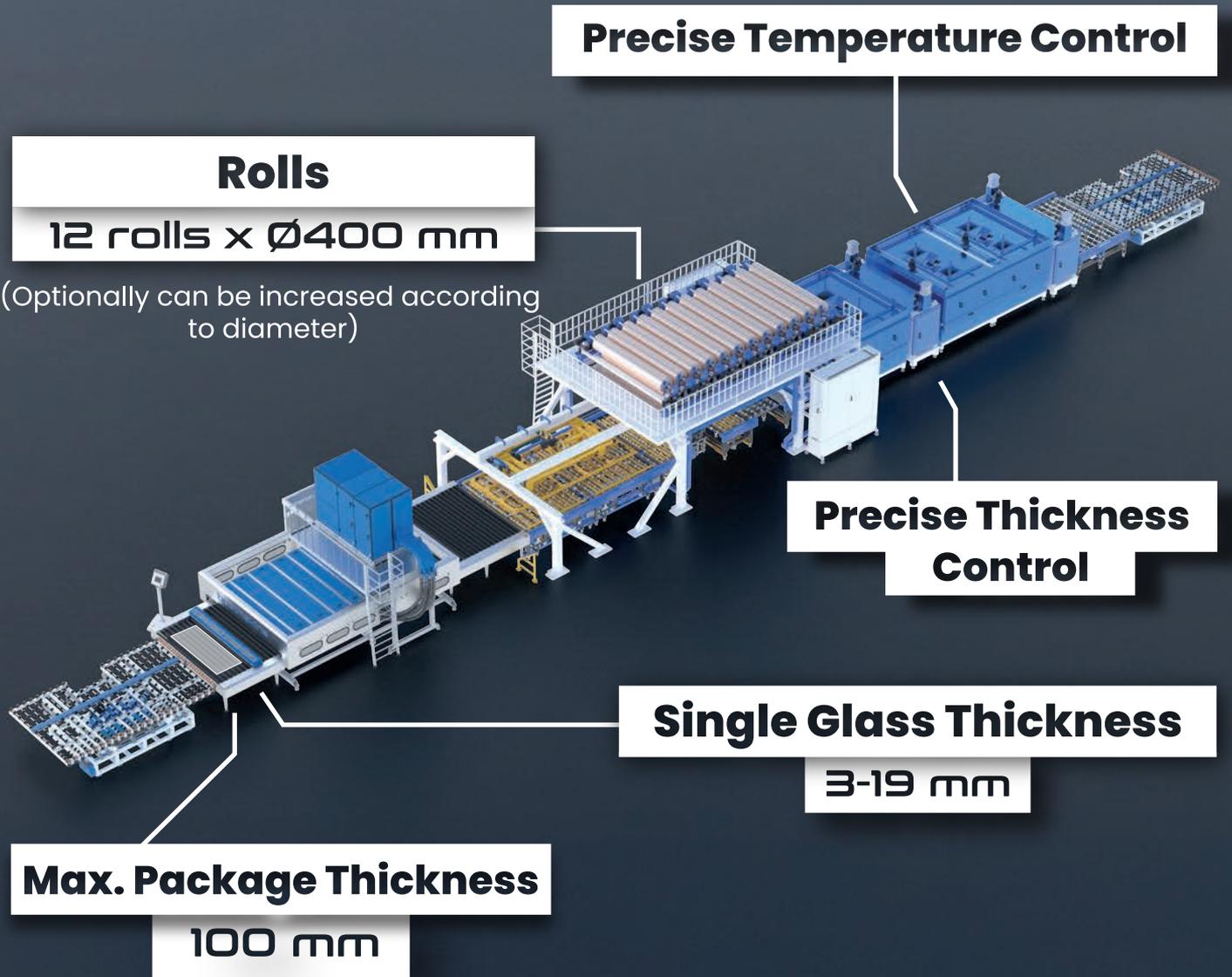
LARGE-FORMAT
ARCHITECTURAL
GLASS TECHNOLOGY
LEAP THANKS
TO **TUOMAS**

TRAILBLAZING
GLASS
MANUFACTURING
PRECISION THANKS
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HEGLA is a universal lamination system that combines roller bearings, hot control, smart PID control, modular scalability and refined structural design. It offers a flexible, energy efficient alternative to traditional fixed and extensive systems across safety glass production.

INDUSTRY TRAILBLAZERS

TK Lamijet Hybrid Pro: the new era of glass lamination

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With its TK control Hybrid Pro, a universal lamination system that combines roller bearings, hot control, smart PID control, modular scalability and refined structural design, TK offers a flexible, energy efficient alternative to traditional fixed and extensive systems across safety glass production.

GROWTH

Investment momentum strengthens **ISOCLIMA** market position

36



ISOCLIMA recently entered a new growth phase following the acquisition of 100 percent of its share capital by Endeavour Capital. Backed by its management team, the group aims to consolidate global leadership whilst expanding in high potential international markets.

REPEATABILITY

Precision and productivity combine in **CUGHER'S** Series J

38



Combining mechanical robustness, inherent automation and wide format flexibility, CUGHER'S Series J automatic ink screen printing technology is designed for industrial flat glass. It offers high repeatability, consistent production and excellent quality across automation, production and solar applications supporting demanding high performance manufacturing environments.

HERITAGE

Historic Paris Studio sees winning upgrade thanks to **FINEO**

44



Preservation meets performance as FINEO installs a Paris D-1 Besa glass studio to reach contemporary thermal and acoustic benchmarks without altering its historic structure, proving that site-specific manufacturing glass can meet historic heritage concerns, durability targets and modern building physics requirements for demanding restoration projects worldwide.

TRANSITION

In driving flat glass decarbonisation, GLASS FOR EUROPE shines

Believing the sector's efforts to reduce CO2 emissions in flat glass production, GLASS FOR EUROPE takes its vision forward in new exciting initiatives. Improved recycling, energy-optimal adaptation and concepts with CO2-neutral production processes that efficiency, hybrid melting and enhanced conductivity have the essential pillars in Europe's low carbon transition.

2050: *ambition*

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SPECIAL FEATURE

FIRE RESISTANT GLASS

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glass technology

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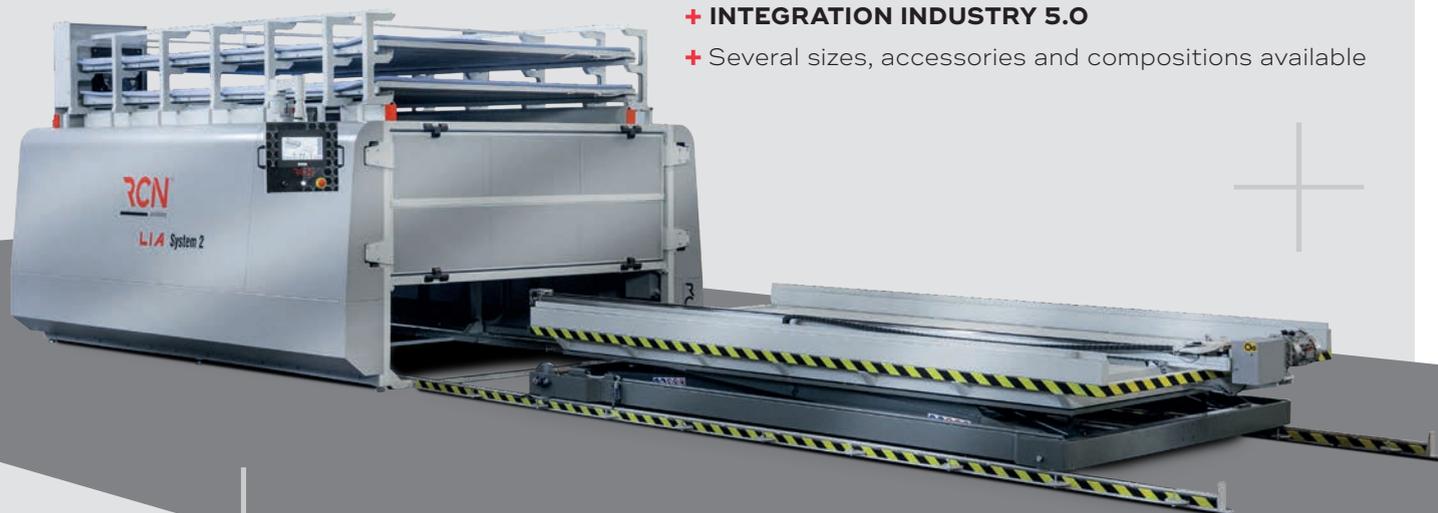
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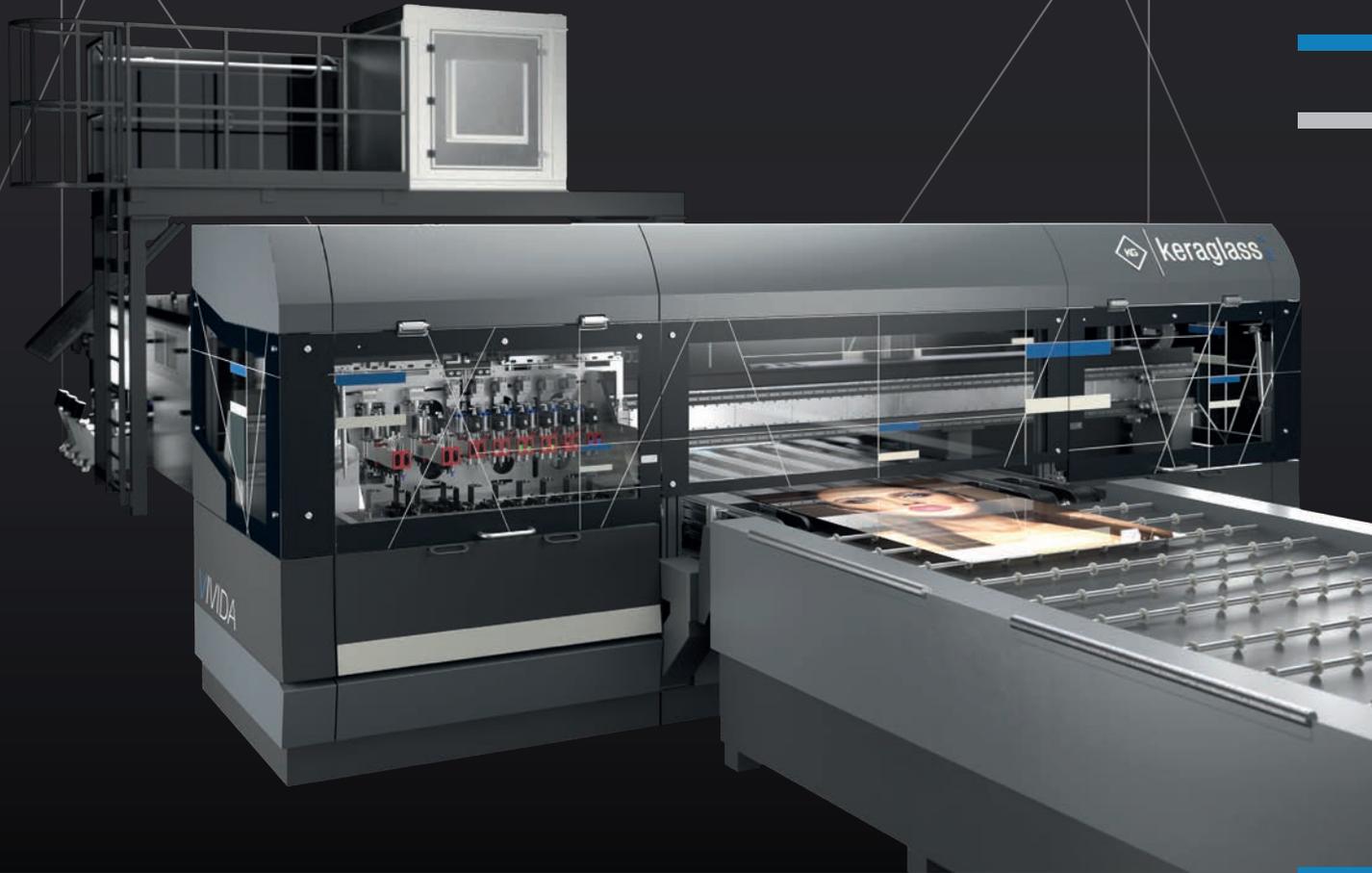
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<p>2026</p> <p>5</p>	<p>GLASSTEC 20-23 OCTOBER DÜSSELDORF - GERMANY</p> <p>All GLASSTEC exhibitors advertising in this issue also receive a free GLASSTEC PREVIEW</p> <p>GLASSTECH ASIA 10-12 NOVEMBER KUALA LAMPUR - MALAYSIA</p> <p>VETECO 10-13 NOVEMBER MADRID - SPAIN</p>	<p>Editorial files: 24-09-2026</p> <p>Deadline Adv files: 29-09-2026</p>
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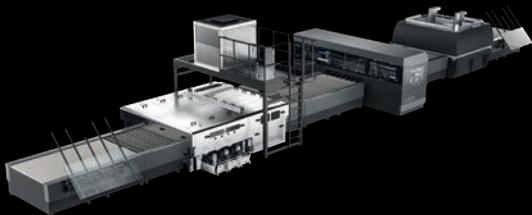
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SCHIATTI ANGELO

Customisation and automation as a glass processing approach

In the glass processing machinery market, choosing the right equipment is not just about specs. It is about finding a configuration that fits your production needs, your space, and your growth ambitions. This is the core of **Schiatti Angelo's** 'Tailored Technology' philosophy. The Italian manufacturer starts from proven base models and builds around them. Options range from simple add-ons to full hard customisations designed with the client.



Configuration that optimises workflow while maximising ROI

All Schiatti machines share a key design principle, namely single-operator management. Whether in a basic setup or a fully automated line, one person controls the entire process. Lower labour costs, higher productivity, simplified operations. A concrete example is the CVB55 automatic glass loader with a rotating table. The system manages two glass racks back to back: one feeds glass sheets to the edging machine while the other sits outside the safety enclosure, ready to be swapped. When the active rack empties, a button press rotates the table, positioning the full rack in the work area. The machine resumes immediately, with zero downtime. This eliminates interruptions during rack changeover, a common bottleneck in bilateral edging lines, keeping the cycle at up to four loads per minute under single-operator control. This is targeted automation, tailored to a real need, that delivers efficiency without unnecessary complexity.

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LiSEC

SRP-A: Sealing robot premium with CLEAN SEAL Technology

The LiSEC SRP-A is a system for sealing insulating glass units with two-component sealants. The sophisticated build-up of this system guarantees maximum process reliability and quality, even with heavy units.

The SRP-A consists of a modular system comprising several transport sections and a vertical sealing bar. Glass is transported via an innovative "full-support belt system" that provides optimum support for the unit. The integrated cleaning system ensures that the support jaws remain clean by means of scraper units and a rotating brush.

From the outlet zone, an additional horizontal roller beam with a defined distance to the back wall guides the unit at the upper edge. This facilitates inspection and removal of the sealed units.

The insulating glass unit is held by dynamically moving suction slides to ensure controlled transport along the system. The thickness and build-up of the unit are measured in the separate upstream measuring section. The required material quantity is determined together with the value from the depth measuring device.

The material is conveyed via a precise cylinder extrusion system and applied by means of a rotating application head. In the final step, automatic corner correction is performed to ensure fast and high-quality sealing results.

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LANDGLASS

Tempering furnace forges glass masterpiece in Lima

LandGlass takes pride in being the technology partner of choice for iconic architectural projects around the globe. Its clients' success is the most powerful testament to the quality, reliability and precision of its glass tempering solutions. The company is thrilled to highlight the recent completion of a magnificent project in South America: The Peace Bridge (Puente de la Paz) in Lima, Peru.

A landmark project built on trust and technology

A Latin American client, **Cristemp**, selected the LandGlass glass tempering furnace to process the high-specification glass required for this impressive structure. The Peace Bridge, an architectural masterpiece, now features beautifully crafted flat and curved glass, all fabricated using LandGlass' advanced glass tempering technology. This demanding project required glass that meets the highest international standards for safety, structural integrity and exquisite design.

The LandGlass difference: Precision meets performance

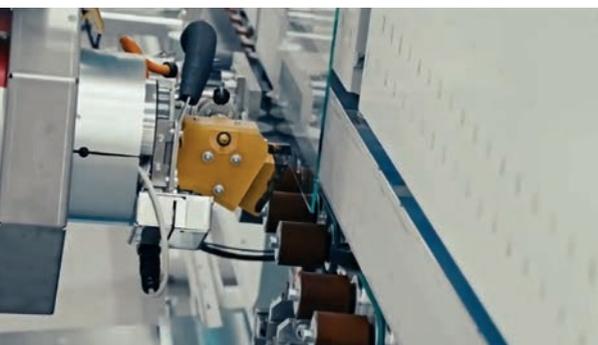
The fabrication of both flat and complex curved glass for such a prominent public structure demands a tempering furnace capable of flawless, repeatable performance. LandGlass' technology empowered Cristemp to deliver:



- **Unmatched Precision:** the furnaces ensured perfect shape accuracy for the curved glass elements, guaranteeing they fit seamlessly into the unique architectural geometry of the bridge.
- **Superior optical quality:** utilising advanced heating and convection controls helped minimise optical defects, which is crucial for architectural glass.
- **High safety standards:** LandGlass glass tempering machine guarantees the glass's enhanced mechanical strength, essential for a high-traffic public landmark.

LandGlass extends sincere gratitude to Cristemp for continued trust in their technology. This project stands as tangible proof of how innovative tempering solutions translate into enduring architectural excellence worldwide, making public spaces safer and more beautiful.

WWW.LANDGLASS.NET



GLASTON

Thermo plastic spacer TPS® PRO - Next-gen IG manufacturing

The new Glaston TPS® PRO technology recently set a new benchmark in insulating glass manufacturing. Unlike conventional systems, the TPS® PRO directly applies Thermo Plastic Spacer (TPS®) onto the glass plate, enabling fast, flexible production of IG units, multilayer and solar panels with up to 15 percent higher yield thanks to its new control system and optimised process sequence.

WWW.GLASTON.NET

CHINA GLASS

Industry creates opportunities for high-quality development

Amid profound transformations in the global economic landscape and with the green, low-carbon transition becoming a core driving force, China's glass industry is welcoming a new round of development opportunities through its strong resilience and innovative capabilities. Against this backdrop the highly anticipated annual event for the global glass industry, the 35th **China International Glass Industrial Technical Exhibition (China Glass)**, is scheduled to be held at the Shanghai New International Expo Centre this year from April 7 to 10.

This exhibition is hosted by the Chinese Ceramic Society and organised by Beijing Zhonggui Exhibition Co., Ltd. To date, a total of 765 companies, including 605 domestic and 160 international manufacturers, have confirmed their participation. The overwhelming demand for booth space fully demonstrates the global glass market's confidence in and expectations for the Chinese market.

Currently, as the global economy seeks recovery momentum amidst challenges, China's steady economic growth and continuously deepening "dual carbon" strategy provide a unique market of certainty for the glass industry. The country's comprehensive upgraded building energy efficiency standards are driving a surge in demand for high-value-added products such as Low-E glass, vacuum glass and smart dimming glass. At the same time, robust growth in strategic emerging sectors like new energy vehicles, the photovoltaic industry and new display devices is fuelling expansion in markets for products in automotive glass, photovoltaic modules, ultra-thin electronic glass, container glass and household glass.

The bustling preparations for this year's China Glass vividly illustrate these trends. The organiser said, "Despite the complex international environment, the enthusiasm of overseas exhibitors remains undiminished. The currently confirmed 160 international exhibitors hail from nearly 30 countries and regions, including the United States, Germany, Italy, the United Kingdom, France, Austria and Spain. This fully demonstrates the international influence of China Glass as a barometer and bellwether for the global glass industry." To meet the booming demand for exhibition space, this year's show will utilise a total of seven halls (N1-N5, W4, W5) at the Shanghai New International Expo Centre, with an estimated total exhibition area reaching 90,000 square metres. Currently, leading domestic glass manufacturers, equipment suppliers and material companies have actively registered. They will collectively showcase the latest achievements of China's glass industry in intelligent and green development.

The exhibit scope will comprehensively cover the entire glass industry chain, including:

- Glass Production Technology and Equipment: intelligent furnaces, automated cutting systems, cold-end processing systems, etc.
- Deep Processing Technology and Equipment: high-strength tempering, precision coating, lamination, insulating glass manufacturing, etc.
- New Glass Products and Applications: energy-saving building glass, automotive glass, electronic glass, artistic glass, etc.

Refractory Materials, Raw Materials and Auxiliary Systems

The 35th China Glass is not only a platform for display and trade, but also an innovation hub leading the industry's future. During the exhibition, multiple high-level technical exchange forums and new product launches will be held concurrently. These events will delve into cutting-edge topics such as zero-carbon buildings and energy-saving glass, smart factories and building-integrated photovoltaics (BIPV), providing industry professionals with an excellent opportunity to grasp policy trends, gain market insights and share innovative technologies.

"We are delighted to see the tremendous enthusiasm shown by domestic and international exhibitors for the 35th China Glass," said the organiser. "We will go all out and meticulously organise, striving to make this edition an industry event that boosts confidence, promotes international cooperation, drives technological innovation and guides future development, injecting strong momentum into the sustainable and high-quality development of the global glass industry."

WWW.CHINAGLASS-EXPO.COM





ROLLMAC

A glance ahead with new leadership

Gemata S.p.A., parent company of the **Rollmac division**, recently announced a significant generational handover and leadership transition at the helm of the company.

Following a transition process initiated over a year and a half ago, Engineer Giulio Mandruzzato has been appointed the new CEO of Gemata S.p.A. He succeeds Ing. Gianni Maitan, who has led the company's growth with vision and expertise for over twenty-three years, establishing it as a global benchmark in the flat glass processing solutions and leather finishing sectors.

This appointment marks a natural step of continuity and renewal. It is part of a broader evolution of corporate governance aimed at preparing Gemata for future challenges and consolidating its role as an international leader rooted in the values that have always distinguished it: innovation, quality and advanced technology.

Under the leadership of Ing. Mandruzzato, Gemata is embarking on a new phase of development and innovation-remaining true to its heritage while embracing a forward-looking approach to the evolution of global markets.

Engineer Gianni Maitan will continue to play an active role within the company as Chairman of the Board of Directors, contributing his experience to the development of new technological and innovation projects.

WWW.GEMATA.IT - WWW.ROLLMAC.IT



LATTUADA

Vertical washing machine installed at PAL Glass Machinery

PA.L. Glass Machinery Ltd. recently reported great satisfaction in sharing the installation of a state-of-the-art **Adelio Lattuada OT1600/300/4S Vertical Washing Machine** at the site of a valued customer.

The highly capable vertical washing machine delivers exceptional washing and drying performance for flat glass processing. Key technical highlights of the OT1600-300-4S include:

- Working speed: 0.5 to 5 metres per minute (19.7 to 197 inches per min), excellent throughput for a variety of production needs
- Workable glass size: from 350 millimetre height up to 1,600 millimetre width, adaptable for a wide range of panel formats
- Glass thickness range: 3 to 20 millimetres standard, optionally up to 30 millimetres, covering most flat glass applications
- Heavy-duty conveyor: handles up to 300 kilograms of glass
- Four high-performance brushes ensure superior cleaning quality
- Built with stainless steel components and advanced control features, such as anti-fall sensors and adjustable speed & thickness displays, for durability and precision.

This OT series machine offers flexibility and high-quality performance that help optimise production and can integrate with grinding, drilling, milling and CNC lines.

P.A.L. Glass Machinery Ltd. are the sole UK & Ireland agents for **Adelio Lattuada** in the glass and stone industry, offering high-quality solutions.

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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:

1200N Aramtex® discontinuous filament tapes

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.

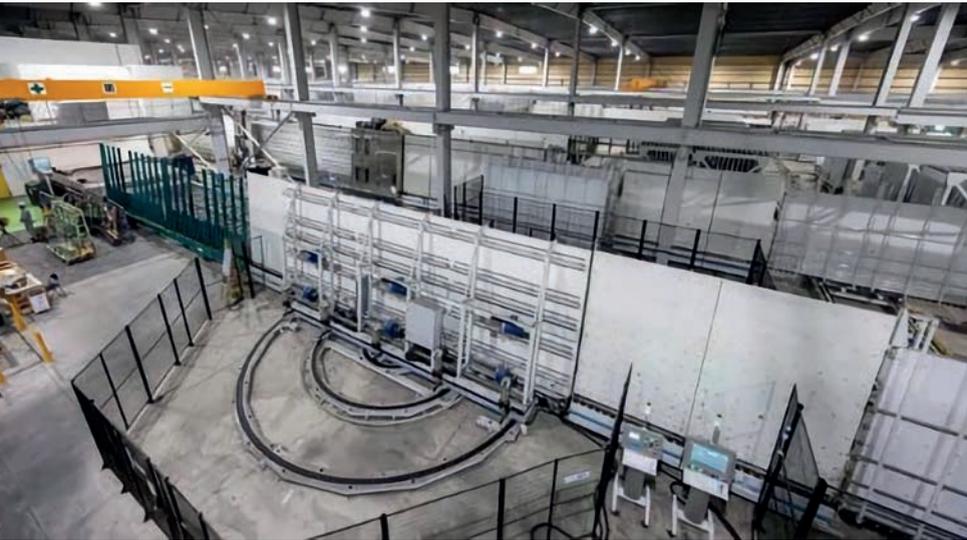


1210C Aramtex® continuous filament sleeve

The Aramtex® sleeve is produced using 100% pure aramid yarns with continuous filaments that give it better mechanical properties than discontinuous filament sleeves.

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NBS & FOREL

Automation and large-format glass in East Japan Factory

The story of NBS is of a company that has built its growth around a simple yet radical question: how should a glass factory operate today, and how will it need to operate tomorrow? “Our story began in 1987,” says Toshiaki Kato, CEO and Founder of NBS. “At the time, we were a glass delivery company.” NBS expanded its role from logistics to operational support, to direct management of production activities. This led the company first into tempered glass, then laminated glass and ultimately to becoming a manufacturer of glass products. At its East Japan facility, NBS produces large-sized insulating glass and is recognised as one of the most structured players in the Japanese glass industry.

From standard products to large formats

Before the construction of the new plant, NBS’s production focused mainly on standard products. However, ongoing market analysis and constant dialogue with customers highlighted a clear shift.

“We realised that, especially in the lower sections of buildings, glass sizes in Japan were be-



coming significantly larger,” Kato said.

This led to a strategic decision: to build a factory capable of handling jumbo glass sheets up to 3,300 by 9,000 millimetres without compromising efficiency, quality or cost competitiveness.

Automation and the Sorting System: the core of the project

During the project’s development phase, NBS visited other plants and observed existing solutions in operation. It was at this point that the collaboration with Forel truly took shape.

Approximately 60 percent of the equipment installed in the new facility was supplied by Forel.

A single machine did not drive this choice, but Forel’s ability to deliver a fully integrated production flow.

In a factory of this scale, coordination between stages is essential. Choosing a single partner capable of ensuring this consistency proved to be a decisive factor.

Automation with a human purpose

At the East Japan facility, automation is not driven solely by productivity goals. Handling nine-metre-long glass sheets manually is neither feasible or sustainable in terms of safety and operational continuity.

Thanks to Forel’s solution, operators can now focus on supervision, quality control and process optimisation. The result is a safer working environment and a more stable long-term production model.

A factory designed for the ages

NBS’ East Japan facility is one of the largest and most advanced glass plants worldwide. It was designed around the principles of automation, systemisation and IoT integration to support production focused, high-value-added products.

With this foundation in place, NBS looks to the future with clear objectives: consolidate its competitive advantage and verify its position as a national benchmark for large-format architectural glass production. It is a factory designed for today’s needs and for decades to come.

WWW.FORELSPA.COM

NORTHGLASS

Smart Factory built for Vietnamese client

At a client's facility in Vietnam, a fully-automated processing line powered by **NorthGlass technology** and equipment now operates under a precisely planned production rhythm: 300 working days per year, 10 hours per day.

This integrated line, spanning automated warehousing, CNC cutting, edge grinding and high-performance washing, runs with high coordination and stability. The result is a predictable and efficient output that supports major global home furnishing brands.

Under this operating model, the facility achieves:

- 2.8 million pieces of high-quality single glass annually
- Lean, stable and time-disciplined manufacturing
- Strong supply capability backed by NorthGlass equipment reliability

NorthGlass continues to empower partners worldwide with intelligent systems, advanced automation and consistent manufacturing performances.

WWW.NORTHGLASS.GLOBAL



A+W SOFTWARE

AI-powered Order Entry by Mira

A+W Software recently announced the official release of A+W Order Entry AI, its first solution bringing artificial intelligence to their software. This breakthrough signals a significant step forward for glass industry professionals, offering enhanced efficiency and greater user autonomy. A+W Order Entry AI has been available for early access since December 2025.

The creation and evolution of Mira are the result of years of com-

mitment and expertise from the A+W Clarity R&D and Innovations team. Powered by advanced Large Language Model (LLM) technology, Mira enables seamless interaction between human concepts and technical execution, allowing users to carry out tasks effortlessly and intuitively.

The A+W Order Entry AI is hosted in the A+W Cloud in which they offer a comprehensive suite of features designed to enhance efficiency and user experience in automated order management. Automated order capture is achieved through OCR-based data recognition, leveraging Google Gemini to extract and process information from PDF documents received either by upload or email. The platform provides intelligent article mapping by matching customer specific article wording with ERP system articles. Direct ERP integration via ERP API is the key here, allowing direct communication between Mira and the ERP system. The technology can be expanded to other use cases in the future.

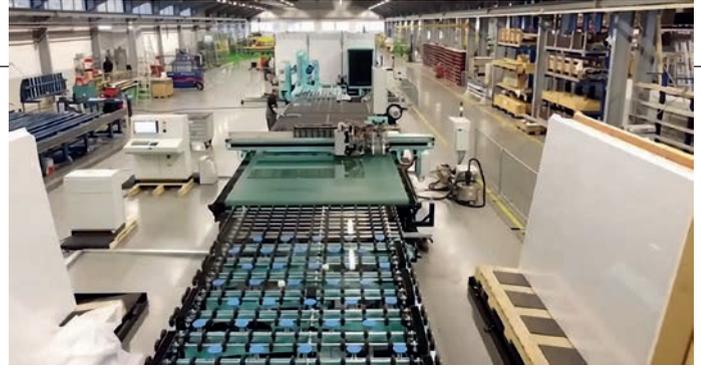
Users can benefit from chat-based document editing, interacting with Mira through a conversational chat interface to modify layouts, adjust data, and correct mappings without requiring programming expertise. Data is also accessible in a deeper UI level for advanced users to directly define and change values.

WWW.A-W.COM



HEGLA

Triple glazing with thin glass as the centre pane



Triple insulating glass with thin glass as the centre pane was one of the key trend topics of 2025 and will gain even more momentum this year. HEGLA, together with its strong partners Corning Incorporated and Glaston Corporation, developed a technical solution that brings together outstanding expertise from multiple fields into one perfectly coordinated system. Thanks to its minimal overall width, triple glazing with thin glass can be designed to be just as slim as conventional double glazing. This makes it ideal for building renovations where the glass is replaced within existing window frames.

The environment benefits as well: reduced energy loss improves the building's overall energy performance and at the same time contributes to the fight against climate change. With a maximum level of automation, HEGLA ensures safe handling and the precision required for processing.

WWW.HEGLA.COM

CORNING

CES 2026 innovation honours for glass surface treatments



Corning Incorporated recently announced that two of its glass surface treatments earned recognition in the CES 2026 Innovation Awards. Corning® Gorilla™ Matte Pro was honoured in the Computer Peripherals & Accessories category, while Corning's SurfacelQ™ advanced anti-reflective surface treatment for automotive displays was recognised in the In-Vehicle Entertainment category.

The awards highlight Corning's global leadership in developing

surface treatments that significantly enhance users' experiences. The recognitions underscore Corning's ability to deliver materials-science advancements across industries, including the mobile consumer electronics and automotive industries.

Corning's Gorilla Matte Pro delivers next-generation performance for laptops and tablets, combining state-of-the-art anti-reflective and anti-glare technology with the renowned toughness of Corning® Gorilla® Glass. This cover glass surface treatment improves the user experience on high-resolution displays in challenging lighting conditions by significantly reducing reflected light and distracting background reflections. The result is improved contrast, preserved image sharpness, and vibrant colour accuracy.

Corning's SurfacelQ advanced anti-reflective surface treatment earned recognition in the In-Vehicle Entertainment category for its ability to improve readability and visual clarity in automotive displays. Designed specifically for smart vehicles, this surface treatment reduces reflections and increases contrast to improve display visibility and image sharpness. It also minimises colour differences, delivering an enhanced viewing experience for drivers and passengers.

This innovation comes at an ideal time. Automakers are increasingly looking to differentiate their designs with sleek glass surfaces and cutting-edge displays that deliver a seamless, connected driving experience.

WWW.CORNING.COM



The 35th China International Glass Industrial Technical Exhibition

Shanghai New International Expo Centre

April 7th-10th, 2026

Host: The Chinese Ceramic Society

Organizer: Beijing Zhonggui Exhibition Co., Ltd.

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E-mail: ceramsoc@chinaglass-expo.com

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GLAS NATTER & LISEC

A visionary partnership

For more than 50 years, Glas Natter, a family-run company with a long tradition based in Regensburg, Germany, has maintained a close partnership with LiSEC. Its recent investment in the innovative LiSEC SRP-A system once again underscores their shared commitment to digitalisation and greater efficiency. With around 60 employees, Glas Natter is one of Germany's established glass processors. The company offers a wide-ranging portfolio that includes insulating glass in various designs; from simple insulating glass units to highly insulating multiple glass units with special coatings. A particularly important area is laminated safety glass (LSG), which is used in around 80 percent of all insulating-glass units.

Cooperation with LiSEC began when Glas Natter moved to its present site in the 1970s. Since then, LiSEC has been a trusted partner in automating and digitalising production, providing a range of machinery and software solutions. Glas Natter values the close relationship.

"We're always extremely well supported, reliable, competent and with a knowledgeable contact person available whenever questions arise. That's really fantastic," said Barbara Bosse, Managing



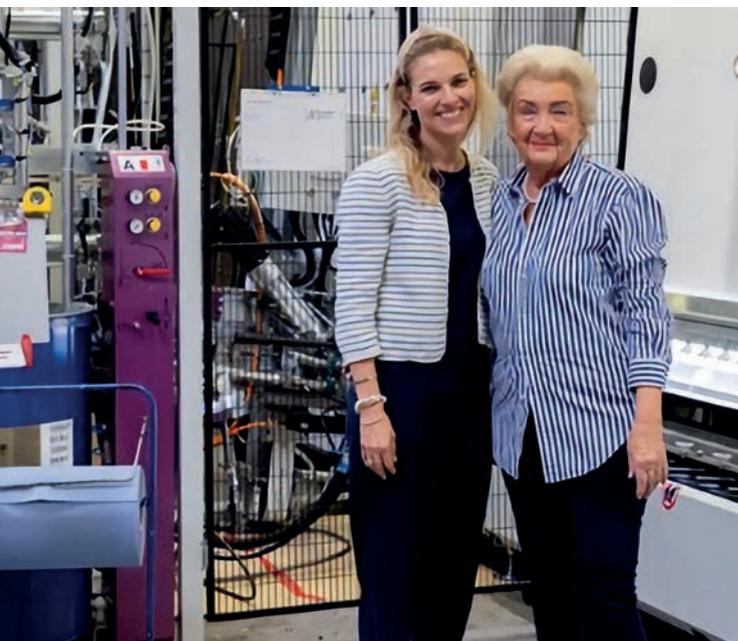
Director of Glas Natter.

She particularly appreciates the combination of hardware and software from a single source, which makes LiSEC the company's central point of contact. Over the years Glas Natter has installed a wide array of LiSEC systems, from glass storage and cutting through to processing and insulating-glass production.

The latest investment - the LiSEC SRP-A system - was commissioned at Glas Natter as one of the first installations of its kind. The SRP-A is a state-of-the-art sealing machine for insulating glass, designed specifically for precise and efficient processing. Its newly developed suction-axis design guides each unit with outstanding stability, making the system ideal for companies that handle both standard formats and complex custom shapes. Thanks to the patented "Full-Support Belt System" technology, the glass is transported safely and gently, even when sealing material protrudes at the corners. The system can process insulating-glass units up to 80 millimetres thick.

The long-standing partnership between Glas Natter and LiSEC demonstrates how technological expertise and mutual trust can work hand in hand over decades. Both companies share a commitment to continuously advancing quality and customer focus, proving that genuine partnership can continue to inspire even after many decades.

WWW.LISEC.COM



FOREL & TRITEMPLEX

Solid collaboration that's built to last

When projects become more complex and processing requirements more diversified, production processes need to evolve. It is from this need that the collaboration between Forel and Tritemplex began. Based in Peru, Tritemplex has over thirty years of experience in glass processing for residential, commercial and institutional projects. Over time, Tritemplex has developed a strong focus on bespoke solutions, working on projects that differ significantly from one another and involve specific requirements. This evolution has led to increasing production complexity, making it necessary to review the organisation of certain processes in order to continue ensuring quality and reliability in the final result, particularly in insulating glass production.

This is where the dialogue with Forel began. Not with the introduction of a single technology, but with the intention of working on the process as a whole. From the very early stages, the collaboration was set up as a partnership, based on continuous discussion around real production needs and shared objectives. The focus was on shaping a production flow capable of handling different types of processing without compromising quality. A path built on shared analysis and targeted decisions, leading to the definition of a production setup aligned with the company's actual operational requirements, avoiding standardised solutions.

Within this framework, the INSULEX insulating glass line was introduced, configured according to Tritemplex's production needs.

The chosen configuration integrates a flexible silicone-based spacer system, a well-established solution within Forel's insulating glass technologies, helping to reduce condensation risk and limit thermal bridging. The system is completed by silicone sealants designed to ensure long-term durability and resistance, even under extreme environmental conditions.

The collaboration between Forel and Tritemplex has been built over time, focusing on the process even before the technology itself. A path shaped by dialogue, shared decisions and attention to detail, resulting in a production setup designed to evolve while maintaining quality and reliability.

WWW.FORELSPA.COM



AL ANDALUS GLASS

New Jumbo Tempering Line now running

Andalus Glass recently announced the successful operation of a new Jumbo Tempering Line that strengthens the capability

of the company to deliver faster, higher-volume and higher-quality tempered glass solutions for customers.

Key capabilities:

- Double & Triple Silver Glass Tempering
- Maximum Glass Size: 3,000 by 6,000 millimetres
- Curved Glass Production with minimum Radius: 980 millimetres (for 6 millimetre thickness)

The new line is a strategic step to increase the production capacity, reduce lead times and ensure Al Andalus Glass continues serving the growing needs of the Saudi market with reliability and consistency.

WWW.ANDALUSGLASS.COM



HEGLA-HANIC

Rethinking the future of order entry with AI

HEGLA-HANIC's new ERP system glass365 is based on Microsoft technology, and, if desired, the Copilot is available as an AI-based assistant. But this is not the standard Copilot: the company has customised it to perfectly meet the specific requirements of the glass industry.

It extracts information from emails, PDF attachments, handwritten drawings and various other file types. From this, it generates

Microsoft Copilot: Order Entry with AI - Advantage



a draft order entry, automatically checks stock levels in the warehouse, and then creates a suitable quotation for customers. You remain in full control at all times and can review the Copilot's results before confirmation.

That's how simple and efficient order entry can be with HEGLA-HANIC, intelligent Microsoft Copilot support and the power of AI.

WWW.HEGLA-HANIC.COM

ONYX

Photovoltaic glass for a public building in Madrid

A landmark public building in Madrid, home to Spain's Ministry for the Ecological Transition and the Demographic Challenge (MITECO), recently took a significant step toward energy transition through the integration of photovoltaic glass.

The project demonstrates how building-integrated photovoltaics can be applied to public infrastructure to improve energy performance while meeting strict architectural and heritage requirements.

The technological solution has been developed by **Onyx Solar**, a global manufacturer specialised in photovoltaic glass for buildings. The installation enables the building to generate clean energy on site and is expected to reduce overall energy consumption by at least 30 percent.

The project was executed by Eiffage Energía Sistemas and represents a milestone in the refurbishment of public buildings. It confirms the role of building-integrated photovoltaic solutions as a practical tool to support decarbonisation objectives within public administrations.

One of the main challenges of the project was to combine energy generation with the preservation of the building's original appearance. To meet this requirement, Onyx Solar developed and manufactured 600 units of photovoltaic glass with a customised finish in a specific variant of its "Lime White" colour. This tailored solution allows the photovoltaic glass to integrate with the existing roof, maintaining visual continuity with the original architecture.

Given the protected nature of the building, maintaining its structural integrity was a key requirement. The photovoltaic glass supplied by Onyx Solar was designed to be compatible with non-penetrative fixing systems, ensuring that the original roof structure remains unaltered.

WWW.ONYXSOLAR.COM



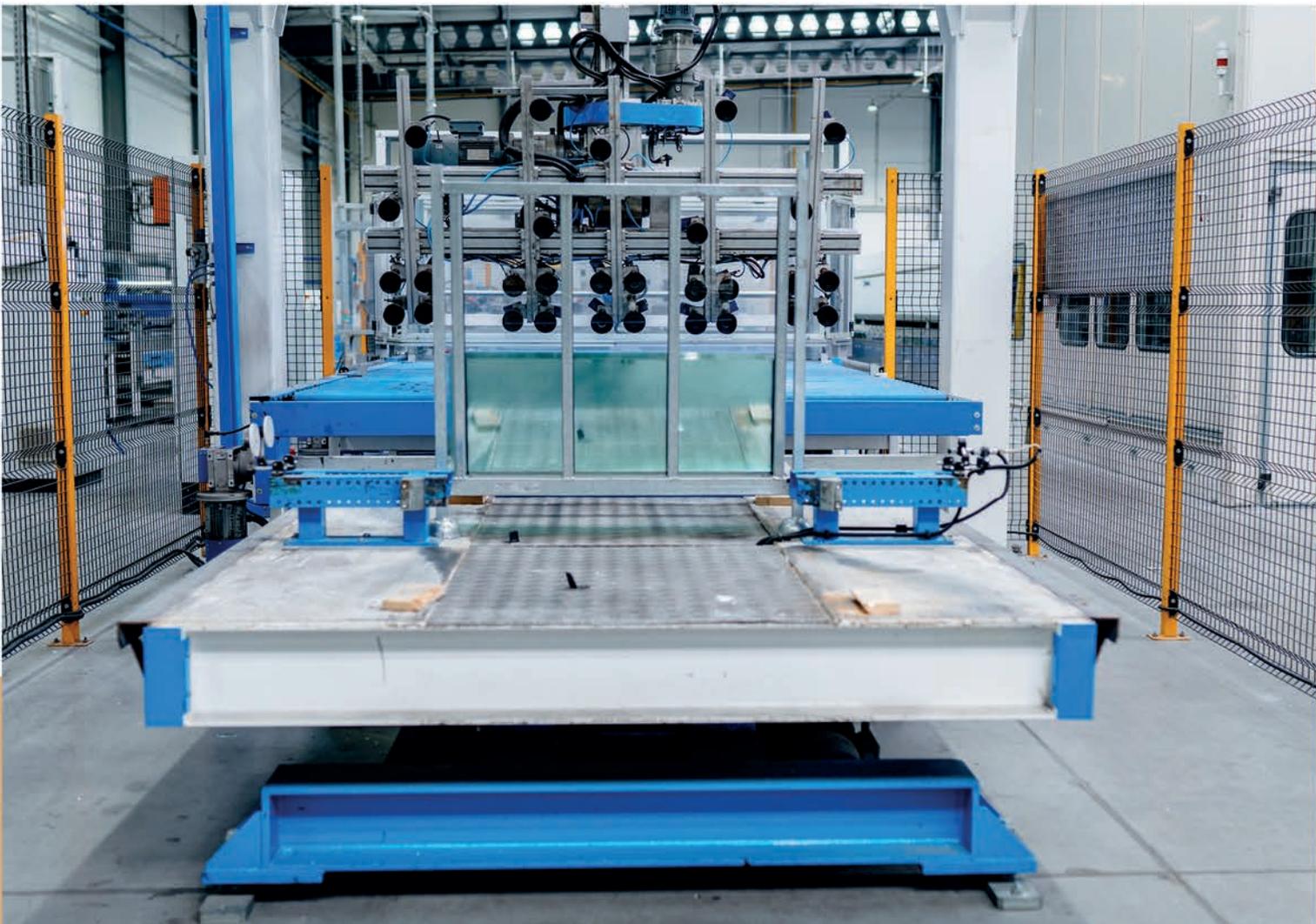


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GLASTON

Serving the more demanding automotive glass market



In the past two years, Glaston has closed several automotive glass processing deals in key global markets, including Japan, China, Croatia, South Africa, the United States and Brazil and demand for Glaston's automotive technologies continues. In the early 2000s, demand shifted toward larger glass sizes to provide drivers with better visibility and a more streamlined vehicle design.

This was followed by the emergence of increasingly more complex glass geometries, exemplified by models such as the Mini, where distinctive styling created new challenges for glass shaping and processing.

Most recently, the rapid development of electric and autonomous vehicles has further reshaped requirements. Modern vehicles now incorporate many advanced driver assistance systems (ADAS), cameras and sensors that must be protected behind glass without compromising optical performance. These trends call for flawless optics and consistent quality throughout the production process. Today's equipment must be capable of supporting these requirements at every stage, from pre-processing to laminating and tempering.

Windshield glass always requires lamination to meet safety and performance standards. Sidelites require both tempering and lamination to enhance passenger comfort by reducing noise and increasing safety. Backlights, too, are becoming more complex, requiring a process that ensures greater visibility and functional reliability.

With deep expertise across all key automotive glass production processes, from pre-processing through laminating and tempering, Glaston serves as a single partner for end-to-end production. The company offers the market a comprehensive family of processing lines, including MATRIX, MATRIX EVO and CHAMP EVO. These solutions enable processors to efficiently and reliably produce more demanding, more challenging glass.

MATRIX and MATRIX EVO are designed for single-model or mixed production of wind-shields and sunroofs, handling the most complicated shapes with superb bending control. Active convection preheating ensures uniform temperature for superior optical quality and high yield, while minimising energy use and operational costs.

CHAMP EVO delivers highly efficient and precise cutting, breaking and grinding over short cycle times with high repetition accuracy. Its automated, flexible layout also enables fast changeovers and supports advanced tempering needs.

Glaston's offerings for the automotive industry are unique in many ways. Its finely tuned wind-shield production technology, for example, reliably delivers unsurpassed yields of up to 99.5 percent, enabling processors to meet the highest customer requirements.

WWW.GLASTON.NET

RCN SOLUTIONS

Vetreteria Ascolese invests its trust for the third time

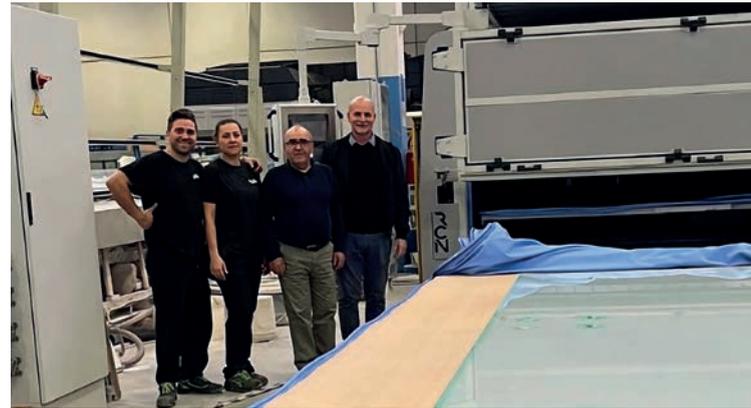
Since 1982 **Vetreteria Ascolese** has represented a point of reference in the glass industry, specialised in the production of special products and customised solutions. Tradition, professionalism, quality and flexibility are the values of the company, core values that identify the company and influence its decisions.

RCN Solutions has reported great satisfaction in supporting **Vetreteria Ascolese** in its business growth while sharing with it the same attention for quality, care and innovation.

Vetreteria Ascolese has a clear philosophy: no mass production, but search for details with the aim of offering excellent and customised outputs, especially within the field of safety laminated glass.

Run by the senior and the young generation, the company follows the steps of the way traced by the founder, Antonio Ascolese, with an open vision to the future and to the opportunities offered by the technology and digital systems.

Vetreteria Ascolese chooses its machines upon well-considered and



targeted evaluations

The purchase of one laminating machine, model LIA, laminating integrated automatism 4+2, which consists of four shelves into two independent chambers, includes overtop storage unit with two additional shelves, fully automatic, active size 2,800 by 5,100 millimetres, has been part of a program of production renewal of **Vetreteria Ascolese** aiming to automate, to invest in the future and accelerate production time too.

In addition, the use of the laminating interlayer **REVA BF** by **RCN** has definitively solved pre-existing lamination problems and contributed to maximise production time.

WWW.RCNSOLUTIONS.IT - WWW.VETRERIAASCOLESE.IT

HEGLA

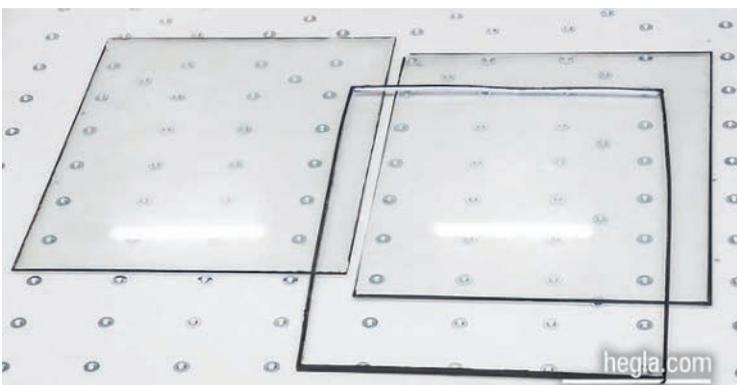
IG2Pieces insulated glass separation

With the **IG2Pieces** system, **HEGLA** is introducing a pioneering solution: insulated glass units are separated fully automatically instead of being processed manually and at great expense. This not only opens up economic potential through single-type recycling, but also makes an important contribution to reducing CO2 emissions in glass processing.

Instead of disposing of end-of-life units without separating them, **IG2Pieces** technology ensures that glass and spacers are cleanly separated and retained for upcycling.

This step means less material and energy consumption because every reuse saves resources and opens up economic opportunities.

WWW.HEGLA.COM



HYGEAR

On-demand, on-site provision of hydrogen and nitrogen to AGC Europe

At AGC Glass Europe in Belgium, a flat glass production factory specialising in thin flat glass and specialty glass, three HyGear's Hy.GEN® systems and a Hy.PURE®

system provides on-demand and on-site hydrogen and nitrogen. As a result, the hydrogen production ensures that AGC has full control over its process. Furthermore, the purified nitrogen guarantees the high-purity environment needed for the controlled tin bath in flat glass production. Moreover, it presents an attractive business case and supports the company's sustainability goals. Koen Michiels, Manager Float at AGC Glass Europe Mol, said, "The reliability of on-site hydrogen production reduces the need for transport logistics, easing the burden on operators. This partnership is a strong business case, allowing our production site to focus on its core operations."

WWW.AGC-GLASS.EU - WWW.HYGEAR.COM



SCHIAVO

Installation of 1st FV1000 vertical glass milling machine in Greece

SCHIAVO recently announced the installation of the first FV1000 vertical glass milling machine in Greece.

SCHIAVO has thanked the customer, HILO, for their trust and partnership.

Here special recognition has gone to SCHIAVO's agent Ioannis Charizanos for his outstanding work and dedication in making this project a success.

The milestone marks another important step in the international growth of the company and its commitment to delivering high-quality solutions to the glass industry.

WWW.SCHIAVOTECH.IT





ŞİŞECAM

Completion of coated glass line at Bulgaria facility

Şişecam has commissioned a second coated glass line at its flat glass manufacturing facility in Tarsus, Bulgaria, in addition to the existing line. With a total investment of EUR 20M, the new line will significantly enhance Şişecam's value-added product capacity and competitiveness in the European architectural glass market. Designed to enable the production of temperable, high-performance and energy-efficient products, the line will provide Şişecam with greater product diversity, operational flexibility and an expanded scope for R&D activities.

With the additional capacity gained through the new line investment, Şişecam aims to supply the European market with higher volumes of value-added solutions, including high-technology coated glass offering high light transmittance and maximum thermal insulation, bird-friendly glass, and heatable athermic glass for the automotive industry. Through this investment, the company

will respond to growing demand for sustainable and high-performance glass while further strengthening the share of international sales in its total revenues.

Şişecam's CEO Can Yücel, commented on the commissioning of the investment: "We have commissioned a new coated glass line with an annual capacity of 6 million square metres at our flat glass manufacturing facility in Bulgaria. This investment, which will strengthen our competitive advantage through enhanced operational efficiency and an expanded product range, will increase the share of value-added products within our portfolio and enable us to deliver greater value to our customers.

"In line with our strategic priorities, Şişecam has adopted a growth approach focused on efficiency, cost discipline, cash generation, and strengthening balance sheet resilience. As previously disclosed, we have two additional ongoing investments in the coated glass segment. Once the coated glass line with an annual capacity of 7 million square metres at our Tarsus flat glass facility and the new 6.5 million square metre line at our facility in Northern Italy are commissioned, the total number of Şişecam's coated glass lines worldwide will reach seven, with total coated glass capacity increasing to 48.1 million square metres.

"This scale will allow us to respond to growing demand for coated glass with a more balanced and efficient production structure, while supporting our value-added product portfolio and cash generation capacity. Thanks to its advanced technology and high level of automation, the new line will also contribute positively to our operational profitability."

WWW.SISECAM.COM

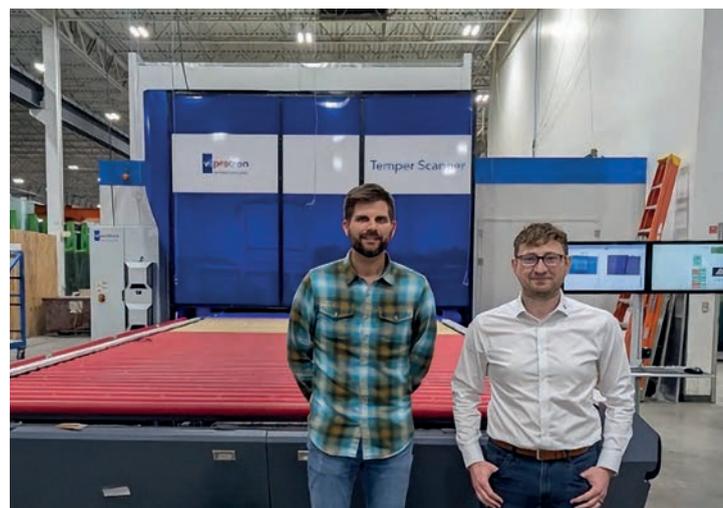
VIPROTRON

ITI Glass installation in US

Reporting a solution that has proven its worth in real operation, ITI Glass recently shared its success story.

One of **Viprotron's** customers, Andrew Wickham, General Manager at **ITI Glass**, said, "These cameras are incredible! This is a game changer for our plant and will allow us to finally have hard data to correlate to our quality specs. I wish we had this system earlier to tune our furnace recipes."

WWW.VIPROTRON.DE - WWW.ITIGLASS.COM



How **HEGLA** is improving shopfloor glass flows

Rising cost pressures, sustained price competition and the ongoing crisis in the construction industry have placed the glass industry under significant strain since 2021. In response, efficiency has emerged as a decisive strategic lever. According to Hegla Managing Director Bernhard Hötger, addressing these challeng-

es requires more than evaluating system technology alone; it demands a comprehensive examination of how glass flows between individual processing stations across the shopfloor. In operations already equipped with high-quality machinery, the technological groundwork for coordinated processes is largely in place. The decisive gains

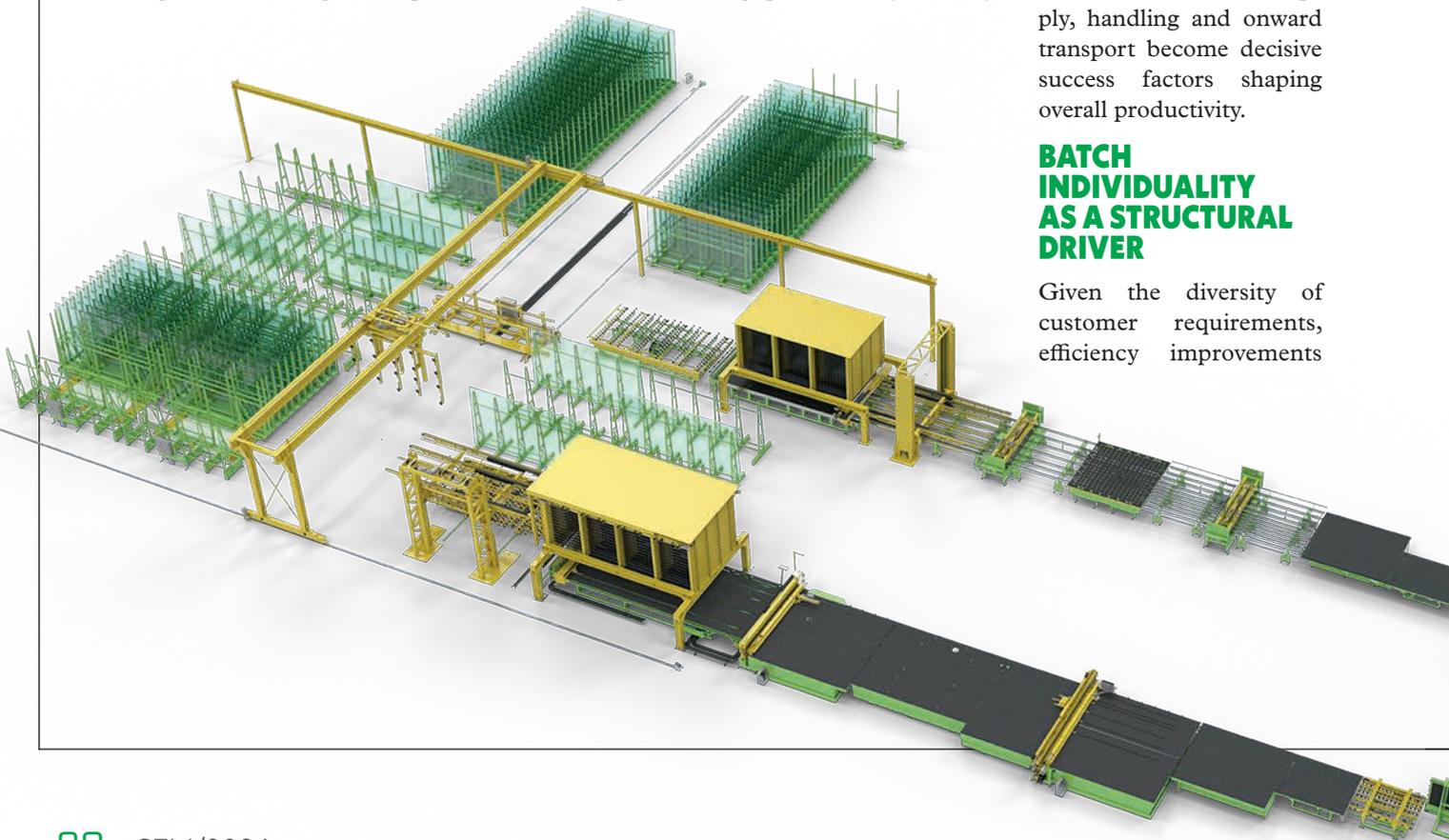
in productivity, therefore, are increasingly realised within the operational environment of the shopfloor itself.

A defining characteristic of glass processing is the predominance of batch size one. Customer orders are rarely identical, limiting the feasibility of classic series production. While the cutting process may initially

appear manageable, complexity escalates rapidly as orders diverge in coatings, glass thicknesses, edge processing requirements or subsequent finishing into toughened glass. When machinery performance is sufficient, Hegla identifies the optimisation of interlinked work steps as a central driver of efficiency. In this context, material supply, handling and onward transport become decisive success factors shaping overall productivity.

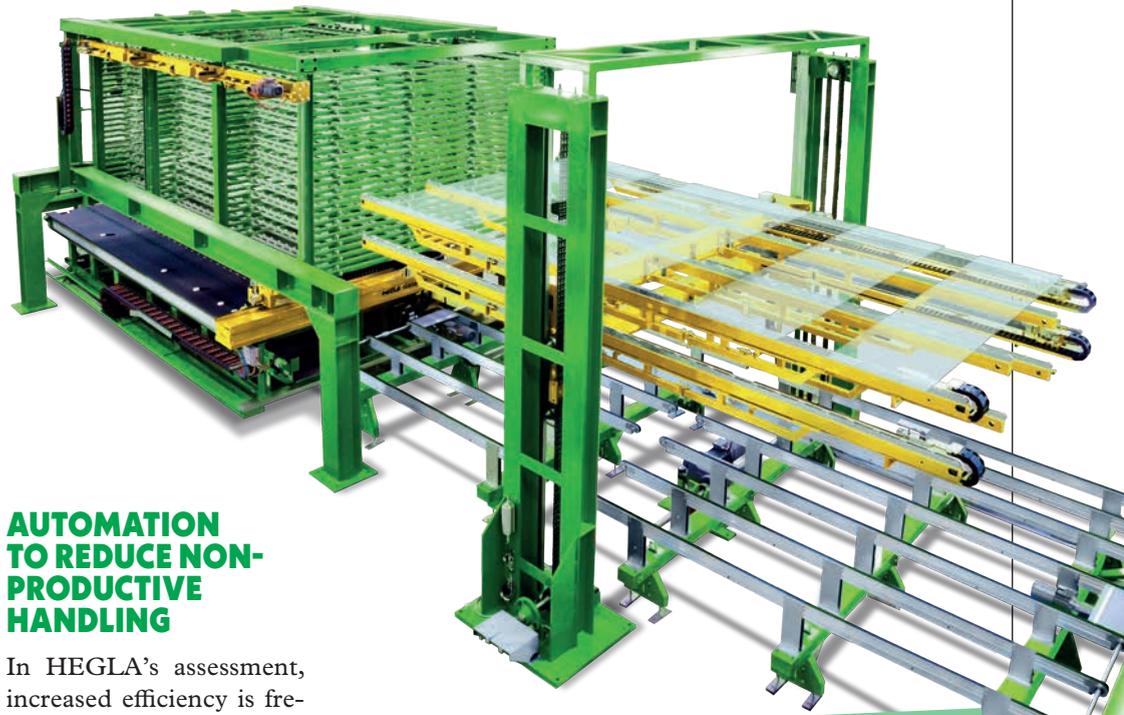
BATCH INDIVIDUALITY AS A STRUCTURAL DRIVER

Given the diversity of customer requirements, efficiency improvements



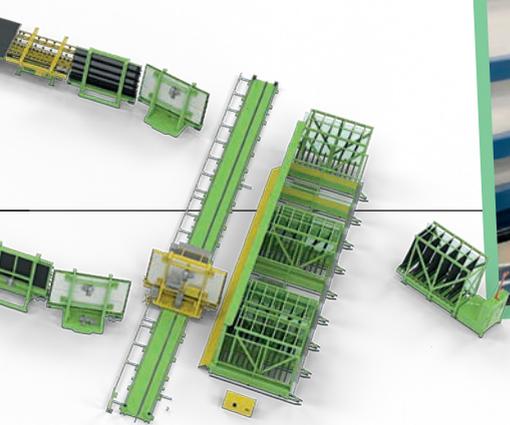
HEGLA demonstrates how targeted shopfloor analysis, automation and digital identification can all unlock new efficiency potential in glass processing. By optimising material flow, reducing non-productive handling and synchronising transport, the company enables higher value creation despite batch-size-one production and sustained market pressure.

depend heavily on a structured analysis of individual shopfloor processes. Hegla emphasises that such an analysis must account not only for machinery but also for order structure and handling logic. The process begins at individual work steps and gradually expands to include adjacent areas, with a particular focus on dependencies and non-productive times. For smaller production runs, this may reveal optimisation potential in glass supply to the cutting system. Where loading is performed manually or semi-manually, automatic expanded storage systems can eliminate operator intervention. Glass is placed directly onto the machine and supplied to downstream stations without cycle-time losses, increasing the proportion of value-adding activity.



AUTOMATION TO REDUCE NON- PRODUCTIVE HANDLING

In HEGLA's assessment, increased efficiency is fre-





without interrupting the cycle, preserving surface quality and maintaining continuous availability for subsequent cutting operations.

DIGITAL IDENTIFICATION AND SYNCHRONISED FLOW

As the shopfloor analysis extends further, internal glass transport and synchronised material supply become focal points. Continuous production requires panes to arrive at each station precisely in line with the cycle. Individual marking -such as laser marking- supports this process by reducing mix-ups, which Hegla identifies as a major recurring risk along-

quently linked to higher levels of automation. One recurring source of non-value-adding time is remnant handling at the cutting table. Manual removal or feeding of remnants interrupts produc-

tion and creates variability in downtime. This challenge intensifies in facilities managing hundreds of glass variants, particu-

larly when handling high-quality panes. Automatic remnant handling systems allow panes to be stored above the cutting table



side breakage and manual handling. By scanning QR code markings at processing stations, follow-up processes can be initiated and confirmed, while each semi-finished product retains a unique digital identity. This identification forms the foundation for digitalising glass processing operations.

System-controlled loading onto harp racks represents a further step in reducing handling time, glass damage and sorting errors. Panes are placed automatically into predefined storage slots and can be retrieved by subsequent stations without operator involvement. When combined with automated transport solutions such as self-driving AGVs, harp racks can be collected from the cutting table in exact synchronisation with production cycles. Sorting stations rearrange cut pieces according to downstream demand, ensuring a continuous and traceable glass flow. Position tracking via SCADA systems enables full transparency across the shop-floor.

For highly complex production environments with large volumes, Hegla describes fully automated sorting systems as delivering the highest added value. These systems connect processing stations directly -either via harp racks or direct links- creating an unmanned, continu-

ous glass supply. Sorting storage decouples process dependencies and unlocks further potential for remnant reduction. Through

dynamic, continuous optimisation, both productivity and value creation on the shopfloor can be

systematically increased. Bernhard Hötger underscores that every production process is unique and that non-productive times carry different weight within each operation. This makes in-depth analysis of processes and dependencies essential. In many cases, Hegla observes that even small, coordinated measures can deliver measurable efficiency gains. Step-by-step optimisation plans, developed in collaboration with machine and software partners, enable glass processors to respond flexibly to market pressures while strengthening long-term competitiveness.



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TK Lamijet Hybrid Pro: the new era of glass lamination

With its TK Lamijet Hybrid Pro, a universal lamination system that combines hybrid heating, fast cooling, smart PLC control, modular scalability and refined industrial design, TK offers a flexible, energy-efficient alternative to traditional ovens and autoclave systems across safety glass production.

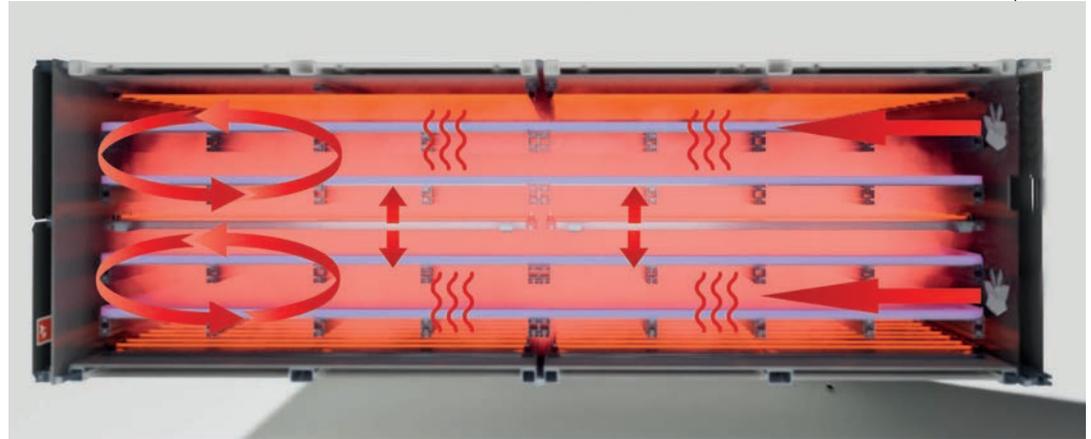


TK heating system

The glass industry is undergoing a clear transformation, moving from traditional EVA lamination ovens to universal lamination systems designed for flexibility and scalable productivity. With the launch of the TK Lamijet Hybrid Pro, TK introduces a solution that goes far beyond a simple equipment upgrade. This new range represents a strategic approach to lamination - delivering a comprehensive and integrated lamination line experience.

ONE OVEN, ALL INTERLAYERS. THE VERSATILITY OF A UNIVERSAL SYSTEM

The core principle driving TK is the ambitious goal of having one single oven to laminate every type of material. Modern processors increasingly require the flexibility to handle



EVA, PVB, SGP, TPU and complex multi-laminated glass without having to switch machines after a few years. This positions the Hybrid Pro as a future-proof investment, ensuring readiness for increasingly sophisticated architectural demands.

TK HYBRID TECHNOLOGY

The 'Hybrid' designation

represents a significant technical step forward. By combining radiation and convection heating technology, the Lamijet Hybrid Pro achieves exclusive process stability. This dual-system approach ensures perfect thermal distribution across all glass types, optimizes heating cycles, increases productivity and allows high-performance interlayers to be processed efficiently.

HEATING SYSTEM

Heating performance is driven by a multizone system for accurate temperature control. Each heating element is made from high-grade conductive material that efficiently converts electricity into heat. Independent heating zones deliver consistently homogeneous performance throughout the oven.

FAST COOLING SYSTEM

Because the end of the lamination cycle is critical for glass quality, a forced cool-

ing system is essential. This technology ensures superior transparency and structural integrity in laminated glass whilst significantly reducing overall cycle times and accelerating delivery to end customers. In addition, TK ovens feature industry-leading thermal insulation that minimizes heat dissipation, reduces energy costs through lower electricity loss and supports sustainable manufacturing via optimized energy consumption.

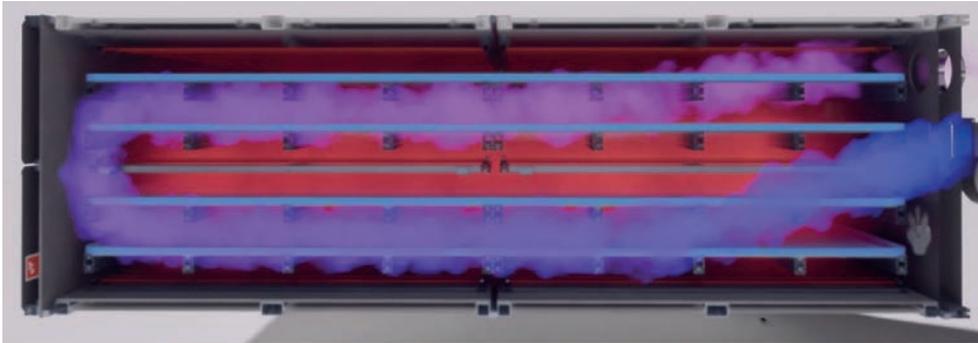
TKONNECT 4.0 AND PLC CONTROL: SMART, INTUITIVE PRODUCTION MANAGEMENT

The TKonnect 4.0 system, combined with intuitive PLC control, transforms the TK Lamijet Hybrid Pro into a smart, data-driven lamination system. Operators can remotely monitor and control production cycles via computer or smartphone, ensuring traceability, real-time supervision, consistent quality stand-





TK fast cooling system



ards and simplified daily workflows.

AN EFFICIENT ALTERNATIVE TO AUTOCLAVE SYSTEMS

Autoclave lamination requires high investment, significant operating costs and considerable plant space. The TK Lamijet Hybrid Pro offers an efficient alternative, covering a wide range of laminated glass applications with lower investment, reduced energy consumption and a smaller footprint. Efficiency is maintained even with small batch production.

MODULAR SCALABILITY: AN INVESTMENT DESIGNED TO GROW

The TK Lamijet range is structured into two tiers, with the Hybrid Pro serving as the premium universal version. Built on a modular concept, the system can grow from a single tray to multi-tray configurations or automated storage, protecting the initial investment over time.

AUTOMATION AND WORKFLOW INTEGRATION

Designed for seamless

workflow integration, the Hybrid Pro can operate as a semi-automatic or fully automatic lamination line. Motorized in-feed systems and PLC-managed tray swapping reduce human error and maximize uptime through automatic load exchange.

BUILT FOR INDUSTRIAL ENDURANCE

Engineered for continuous production, the Hybrid Pro is built exclusively with high-quality European components. It is Industry 5.0 ready and compatible

with smart factory IoT requirements.

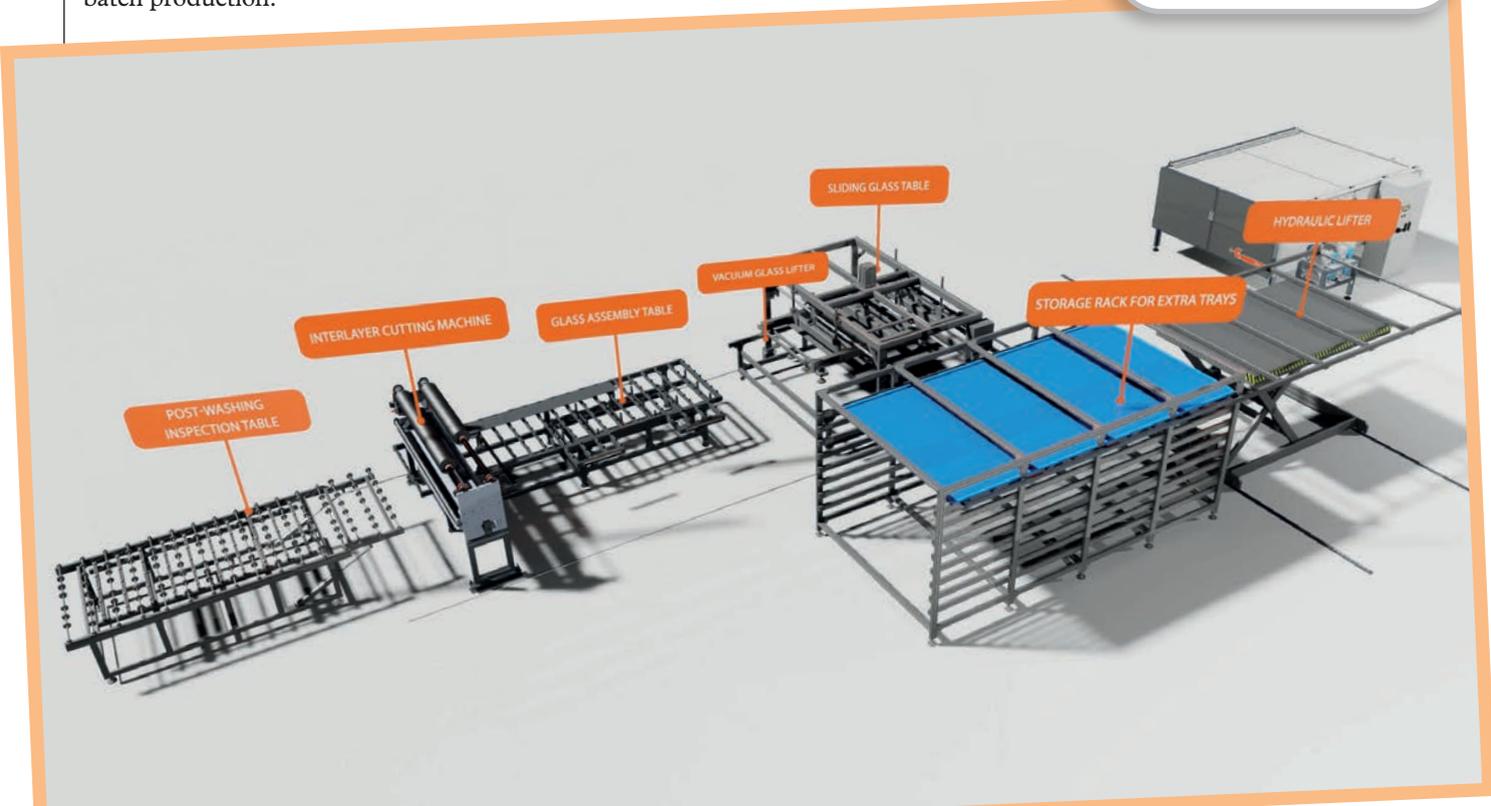
A DEFINITIVE MARKET STATEMENT

The TK Lamijet Hybrid Pro represents a clear statement for the future of glass, balancing advanced automation, universal lamination capability and proven reliability. Its redesigned structure combines industrial power with refined aesthetics, setting a new benchmark for technological performance and industrial design in the safety glass sector.



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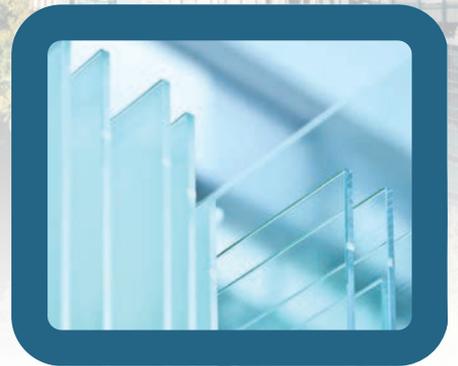


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Investment momentum strengthens **ISOCLIMA** market position

ISOCLIMA recently entered a new growth phase following the acquisition of 100 percent of its share capital by Fondo Italiano d'Investimento SGR and The Equity Club. Supported by its management team, the group aims to consolidate global leadership whilst expanding in high-potential international markets.

A STRATEGIC ACQUISITION

A binding agreement was signed recently for the acquisition of 100 percent of Isoclima S.p.A., marking a significant milestone for the group's future development. The transaction involves Fondo Italiano d'Investimento SGR and the club deal platform The Equity Club, acquiring the company from Stirling Square Capital Partners through the Fondo Italiano Consolidamento e Crescita II and TEC Glass S.p.A. Founded in 1977 in Este (Padua), Isoclima is recognized as a global

leader in transparent solutions using glass, polycarbonate and acrylic for technologically advanced and safety-critical applications. The Group serves high-potential markets including aerospace, high-performance automotive, rail transport, defence and armoured vehicles, complex architectural projects and exclusive marine applications

SCALE AND INTERNATIONAL FOOTPRINT

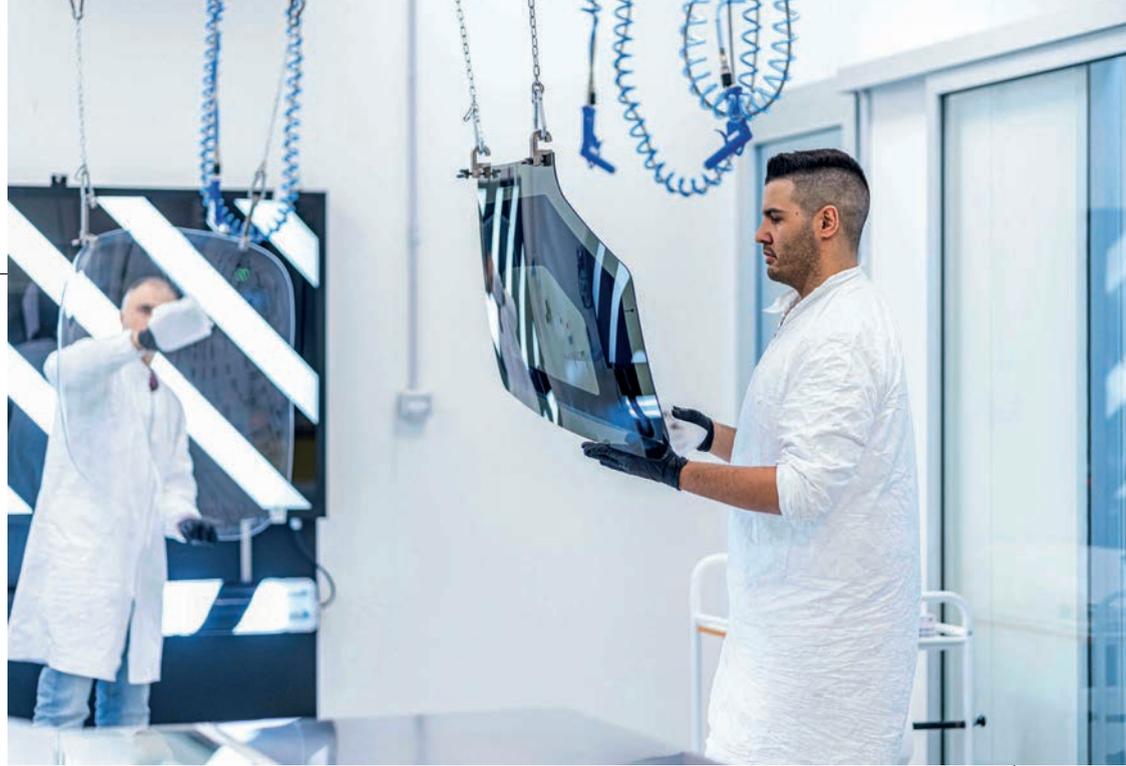
Isoclima operates internationally through six production facilities located in Italy, the United States and Croatia, employing over 1,000 people worldwide. The Group reports revenues of approximately EUR 150M, reflecting its established global footprint and operational scale across multiple strategic geographies. The company's positioning is underpinned by deep technical expertise and continuous investment in innovation, enabling Isoclima to act as



a trusted strategic partner to its clients. Its involvement begins at the earliest stages of design and development, supporting highly complex structural transparent solutions tailored to demanding applications.

LEADERSHIP, INNOVATION AND ESG COMMITMENT

Over the years, Isoclima has strengthened its leadership position while embracing environmental, social and governance principles as part of its operating philosophy. The Group is renowned for its advanced engineering capabilities and extensive patent portfolio, serving leading international OEMs and blue-chip clients across the world's most demanding mar-



kets. Under the leadership of CEO Liviana Forza and the current management team, the company is entering a new phase of growth supported by Fondo Italiano Consolidamento e Crescita II and The Equity Club. This continuity of leadership is positioned as a key driver in sustaining technical excellence and long-term strategic execution.

STRATEGIC OBJECTIVES FOR THE NEXT PHASE

The stated objective of the new ownership structure is to consolidate Isoclima's global leadership while expanding its presence in North America and accelerating growth in high-potential sectors such as aerospace and advanced security applications. The transaction is expected to



close by spring 2026, subject to customary regulatory approvals. According to the parties involved, the acquisition aligns with a broader strategy of supporting Italian industrial excellence with strong international ambitions. With the backing of its new investors, Isoclima is positioned to continue strengthening its role as a global reference in high-performance transparent solutions across critical applications.



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Precision and productivity combine in **CUGHER's** Series J

Combining mechanical robustness, advanced automation and wide format flexibility, CUGHER's Series J automatic silk screen printing technology is designed for industrial flat glass. It delivers high repeatability, controlled productivity and consistent quality across automotive, architectural and solar applications - supporting demanding high-performance manufacturing environments worldwide.

The Series J automatic silk screen printing technology has been developed to address the growing requirements for precision, repeatability, and productivity in industrial flat glass processing. Its mechanical robustness, advanced automation, and dimensional flexibility po-

sition it as a benchmark solution for demanding production environments. Conceived for automotive, architectural, and solar glass manufacturing, the Series J integrates controlled handling, stable positioning, and consistent print quality within a fully automated system designed for high-performance industrial use.



MACHINE ARCHITECTURE AND MECHANICAL STABILITY

The Series J can be configured as a complete printing line, consisting of an entry conveyor with pre-alignment system, a rigid printing unit, and a synchronized exit conveyor. This configuration ensures controlled glass handling and stable positioning throughout the printing cycle. The printing table, manufactured from specially treated aluminum, guarantees long-term flatness and mechanical stability, even with

large glass formats. A timing belt-driven transport system provides smooth, precise, and vibration-free movement, while an automatic glass self-centering system aligns each sheet accurately on the printing table.

PRINTING SYSTEM AND PROCESS CONTROL

The squeegee and flood bar assembly is engineered for precise and flexible process control. Independent speed adjustment and pressure regulation via proportional valves enable accurate and repeatable ink deposition



across the entire glass surface. A stainless steel flood bar with side wings ensures uniform ink distribution, and Vulkollan squeegee blades can be used on both sides before re-sharpening, reducing consumable costs. Optional edge-to-edge printing enables ink deposition up to the glass edge, achieving excellent image definition with repeatability of ± 0.08 mm.

DIMENSIONAL RANGE AND PRODUCTIVITY

The Series J is available in multiple configurations, al-

lowing printing from either the short or long side of the glass. Supported formats range from 130×215 mm up to 250×400 mm, with glass thicknesses between 1.2 and 10 mm. Despite this flexibility, productivity reaches up to 300 pieces per hour. Cycle times can be as low as 12 seconds for smaller formats and up to 21 seconds for larger sizes, balancing speed with print quality.

INDUSTRIAL APPLICATIONS

In automotive glass production, the Series J ensures precise and repeatable printing of ceramic borders, functional patterns, and sensor-related areas, including large formats such as windshields, backlites, and rooftops. For architectural glass, the system supports consistent decorative and functional printing on large panels used in façades and interiors. In solar glass manufacturing, stable transport and con-

trolled printing parameters enable accurate deposition of functional layers, supporting efficiency and yield.

AUTOMATION, CONTROL SYSTEM AND RECIPES MANAGEMENT

The Series J is fully automated and managed by a PLC-based control system with an intuitive touchscreen operator panel. Multiple production recipes can be stored, enabling rapid changeovers between glass formats and printing configurations. Each recipe can recall centering settings, printing speeds, peel-off values, screen positioning, and pressure parameters, reducing setup times, minimizing human error, and ensuring consistent print quality in high-mix, high-repeat production.



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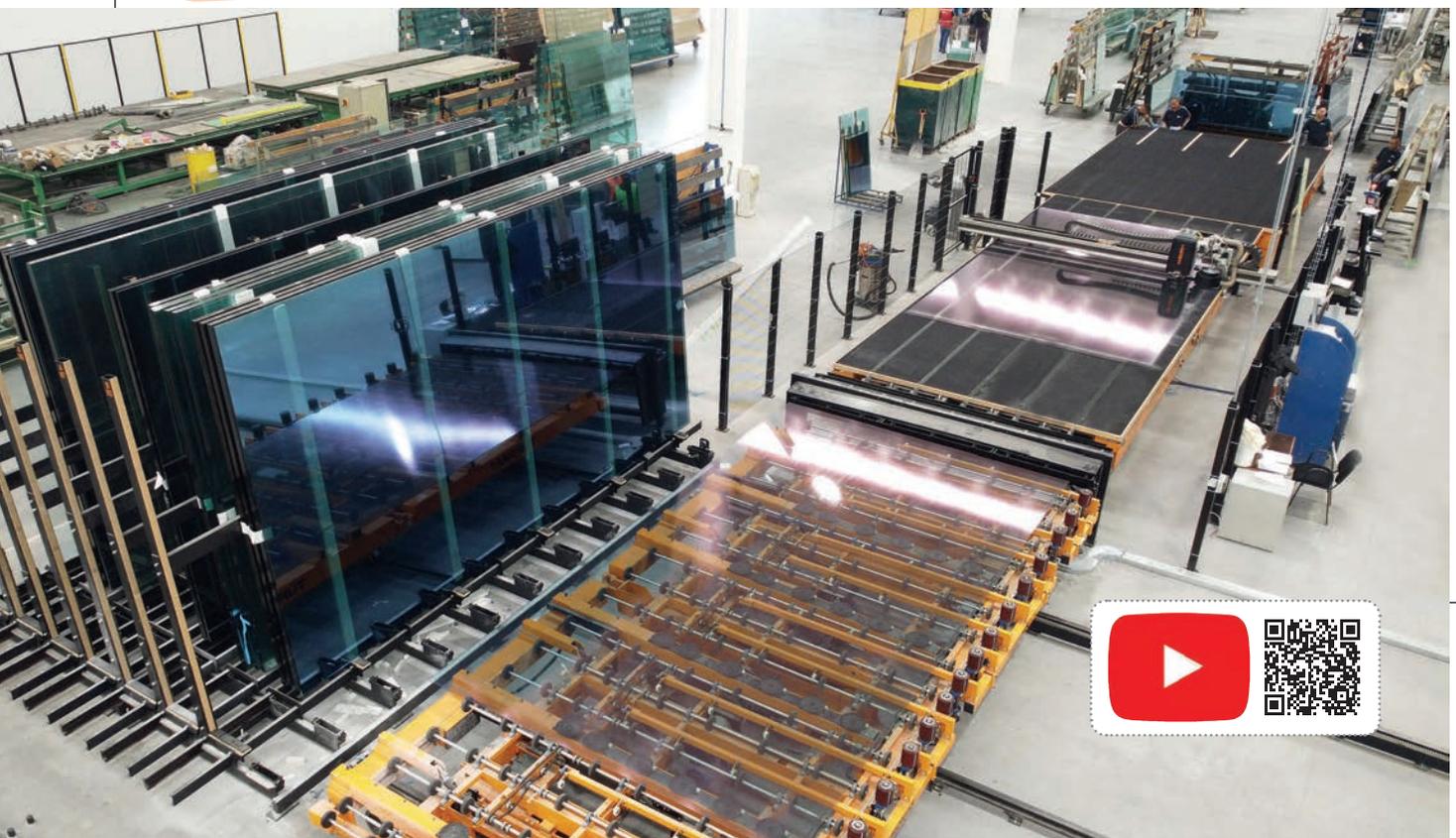
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INDUSTRY VISIONARIES

Large-format architectural glass technology leap thanks to **TUROMAS**

Supporting Grupo Tecnovidrio expansion with advanced cutting and storage technology at its new Toluca plant, TUROMAS is helping the group to strengthen its production efficiency, flexibility and precision - all to reinforce a long-standing partnership rooted in trust, innovation and shared vision for the future of architectural glass manufacturing.





Grupo Tecnovidrio has taken a decisive step forward in its expansion with the launch of a new production plant in Toluca, Mexico. Equipped with Tuomas technology, the project includes two RUBI 517C monolithic glass cutting tables and an automatic glass storage system. With a family history dating back to the start of the 20th century, Grupo Tecnovidrio represents the continuation of a long-standing tradition in the Mexican glass industry. Founded in 1992 by José Antonio Riestra, the company builds on the legacy started by his grandfather

-a pioneer in mirror manufacturing in the country- and continued by his father.

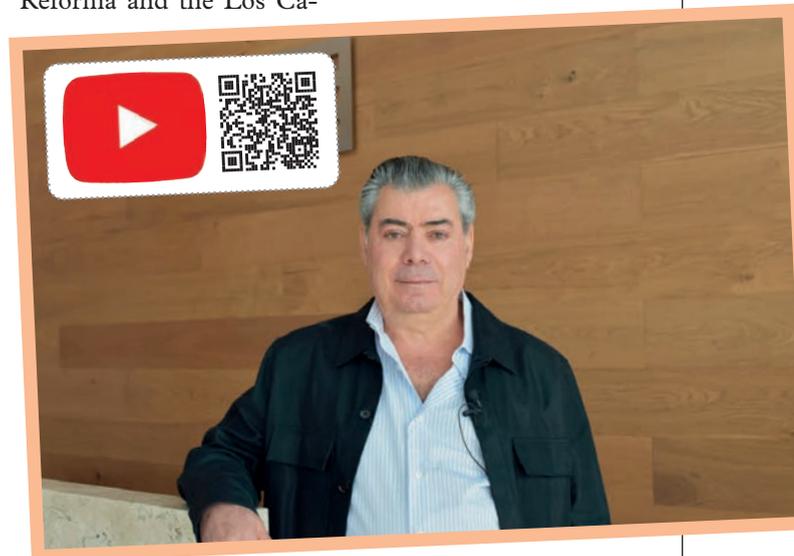
Today, the company continues to evolve, combining artisanal expertise with state-of-the-art technology to deliver large-format, laminated and low-emissivity glass solutions for high-end architectural projects.

“We focus mainly on architecture, unique projects involving large-format glass. Our goal is to make the designers’ visions come true”, says José Antonio Riestra, Managing Director of Grupo Tecnovidrio.

Throughout its history,

Grupo Tecnovidrio has contributed to some of Mexico’s most iconic architectural projects, such as Torre Virreyes, Torre Reforma and the Los Ca-

bos Convention Centre, where the challenge was to deliver large-format glass in a very short timeframe for the G20 summit.





THE PARTNERSHIP WITH TUOMAS: TECHNOLOGY DRIVING PLANNING AND EFFICIENCY

In its most recent stage of expansion, Grupo Tecnovidrio has entrusted Tuomas to equip its new plant with state-of-the-art machinery for automatic glass cutting and storage.

“We have known Tuomas for many years; it was one of the first brands we worked with. In this new phase, we worked hand in hand to design a tailor-made solution to meet our production needs,” explains José Antonio Riestra.

The project, conceived before the pandemic and developed jointly by both companies’ teams, has enabled Tecnovidrio to streamline its production process, ensuring precision, continuity and traceability in every order.

TECHNICAL SOLUTION PROVIDED

From the outset, the technical teams of Tuomas and Tecnovidrio worked hand in hand to design a solution tailored to the company’s present needs and future ambitions. The result has been a phased project that facilitates technological adaptation, staff training and the transition to a new, more automated and efficient way of working.

Now in its final installation



phase, the project includes the integration of a complete intelligent cutting and storage system. Tecnovidrio has acquired two RUBI 517C cutting tables, equipped with linear motors and the ACR stripping system, specially designed to work with EasyPro and TPF-coated glass.

To feed the cutting lines, an intelligent SR-07 shuttle rack-type storage system with 38 positions and a storage capacity of up to 624 tonnes of glass has been installed. It includes an external reloading station that allows the system to be sup-



plied without interrupting the loading cycle.

Both the cutting lines and the storage unit are prepared to handle two standard sheets or one jumbo sheet, thereby increasing the flexibility of the system

and optimising daily operations.

The next phase of the project involves the incorporation of two remnant storage units, one for each cutting line, thus completing the full integration of the material storage and optimisation systems.

“The Turomas team’s involvement was absolute. They understood our needs and provided outstanding support throughout a challenging project. The Turomas team is truly on a par with any manufacturer in the world and their equipment is easy to use yet highly advanced technologically.”

Faithful to its family philosophy, Grupo Tecnovidrio promotes close, trust-based relationships with both its employees and suppliers.

“Our aim is to grow together. This project has been a major step forward for us and a clear example of what can be achieved through teamwork,” concludes José Antonio Riestra.

The collaboration between Turomas and Grupo Tecnovidrio is an inspiring

example of how the combination of experience, innovation and trust can transform a vision into a productive reality. Thanks to the implementation of cutting-edge technology and close cooperation between teams, Tecnovidrio’s new plant has become one of the most advanced in Mexico’s glass industry, ready to meet future market challenges with efficiency, precision and flexibility.



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Historic Paris Studio sees winning upgrade thanks to FINEO

Preservation meets performance as FINEO enables a Paris Art Deco glass studio to reach contemporary thermal and acoustic benchmarks without altering its historic structure, proving that slim vacuum insulating glass can reconcile heritage constraints, durability targets and modern building-physics expectations for demanding renovation projects worldwide.

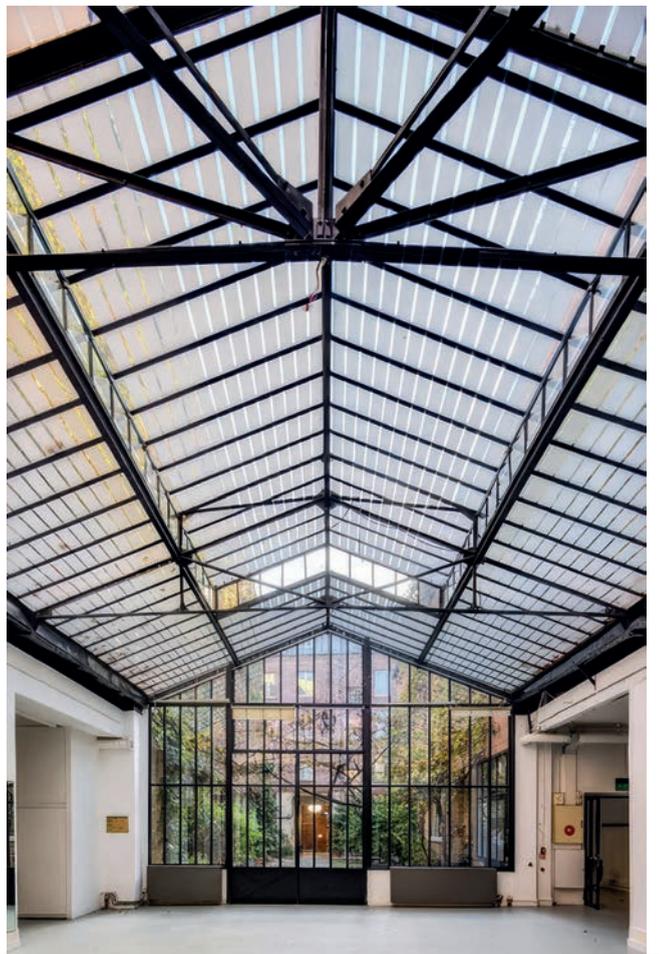


Art Deco-style glass studio meets 21st-century energy standards without compromising its original character. At 59 Rue de Charonne in Paris' 11th arrondissement, the former Wilmotte & Industries design studio recently underwent a comprehensive thermal and acoustic upgrade, made possible by the integration of slim Fineo vacuum insulating glass. The intervention preserves the 1930s glass extension while delivering contemporary performance levels in comfort, durability and building physics - without altering the existing substructure.

CONTINUITY

For the 2024 renovation,

the internationally active architectural design Wilmotte & Associés applied the same conceptual and qualitative rigour used on its large-scale projects. Lead architect and project manager Georges Kallas references the Maison de la Cosmétique in Chartres, a project that integrates sensitively into the historic setting of the Gothic cathedral. Its restrained enameled glass façade reinforces the historic wooden structure without visual dominance. Every project, whether modest or complex, extends beyond solving technical constraints. Each follows a recognisable architectural signature combining ethical responsibility, design precision and



ABOUT WILMOTTE & ASSOCIÉS

Founded in 1975 by Jean-Michel Wilmotte, the company now operates worldwide in the fields of architecture, interior design, museography, urban planning and design. It is renowned for its 'contemporary transplantation' approach - combining old and new elements. Projects include the Paris Saint-Germain (PSG) campus in Poissy, the Allianz Riviera stadium in Nice, Château Pédesclaux in Pauillac, Chalet de la Cry in Megève and the Maybourne Riviera hotel in Roquebrune-Cap-Martin.

Selected projects

- PSG Campus, Poissy, France
- Allianz Riviera Stadium, Nice, France
- Château Pédesclaux, Pauillac, France
- Chalet de la Cry, Megève, France
- The Maybourne Riviera, Roquebrune-Cap-Martin, France

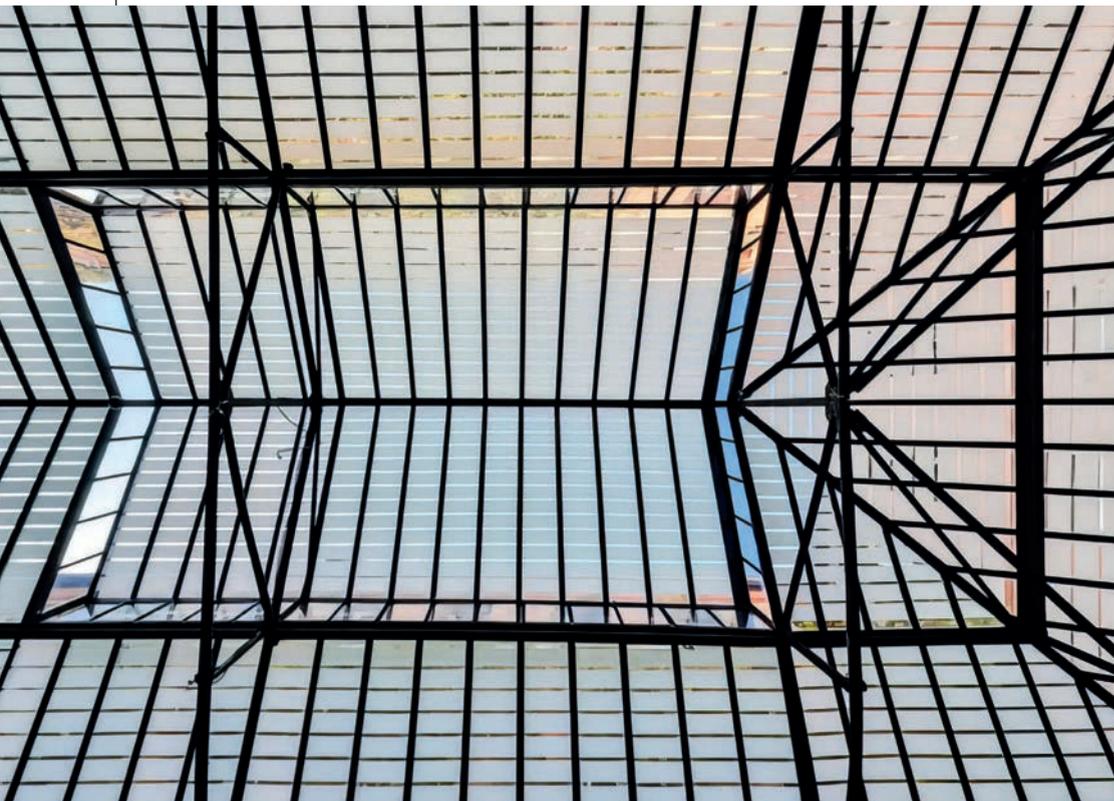
ABOUT VERRE & MÉTAL

Verre & Métal specialises in complex metal structures incorporating decorative or structural glass, ranging from traditional glass façades to custom solutions. The company supports projects throughout the entire process, from planning to installation and maintenance.

material sensitivity. This philosophy is particularly evident in projects that reassess spatial and material use within a given context, revealing a site's history while projecting it forward with respect. "We develop surfaces and details with utmost care to achieve aesthetic coherence in line with performance specifications. Our aim is to create a new quality of use and experience that goes beyond the building itself," Kallas explains.

RETROFIT

Modern comfort and historical heritage come together in balanced harmony. The Art Deco glass façade of the former design studio underscores the building's refined character. While occupants valued the interplay of glass and metal, the original construction no longer satisfied current energy and acoustic demands. "Because the owners' association wished to



ABOUT AGC GLASS EUROPE

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 a leading world manufacturer of flat glass, with over 100 locations and around 13,000 employees across Europe.



© WILMOTTE & ASSOCIÉS ARCHITECTES



preserve the historic appearance, we refurbished the T-metal beams and integrated Fineo glazing, which is fully compatible,” says Kallas. Thanks to its minimal installation depth, the original structure remains intact while achieving performance levels comparable to triple glazing. “We also laminated Fineo with tempered glass to add safety and mitigate breakage risks,

such as objects falling on the roof.”

Execution was carried out by Verre & Métal, a specialist in glass and metal construction founded in 1921. Fineo 8 laminated with 4 mm clear single-pane safety glass was specified. The resulting assembly integrates seamlessly with the 1930s aesthetic, uniting historical substance with contemporary comfort.

ABOUT FINEO

FINEO by AGC is the latest generation of insulating glass, combining an ultra-slim design with exceptional thermal and acoustic insulation properties. Manufactured in Belgium using a revolutionary process, FINEO guarantees maximum energy efficiency and sustainability, in line with current building regulations. It does not compromise on aesthetics or performance. FINEO is a reliable and proven solution for professionals seeking the highest standards of technical excellence and environmental responsibility - whether for restoration, renovation or new construction projects.

METRICS

Clément Lemoine, Product Manager and Market Strategist at Fineo by AGC, notes that the core innovation lies in the hermetically sealed vacuum cavity between two glass panes, measuring just 0.1 millimetres. This configuration dramatically limits heat transfer, delivering a Ug value of $0.7 \text{ W}/(\text{m}^2\text{K})$ with a total thickness of only 6.7 millimetres in its minimal version. Acoustic performance is equally notable, with Rw values of 36 dB in standard configurations and up to 45 dB in laminated versions incorporating AGC's Stratophone acoustic insulation glass. Fineo therefore offers a rare combination of high performance, slimness, and durability, particularly suited to historic and listed buildings. Laboratory

testing confirms thermal and acoustic integrity for more than 60 years, ensuring a long and luminous future for the renovated glass studio on Rue de Charonne. AGC was the first manufacturer to obtain CE marking for vacuum insulating glass with Fineo. It is also the first and only vacuum insulating glass supported by a third-party verified Environmental Product Declaration, achieving exceptionally low CO₂ values of up to 18.9 kg/m² in its low-carbon version.

FINEO
by AGC

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Trailblazing glass manufacturing precision thanks to IOCCO tooling

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

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

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

AUTOMOTIVE EXPANSION

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



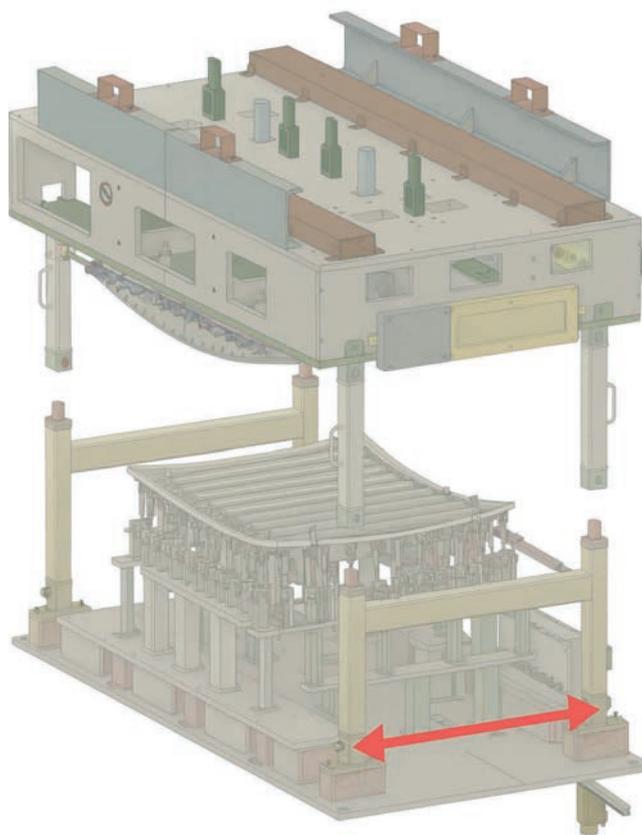
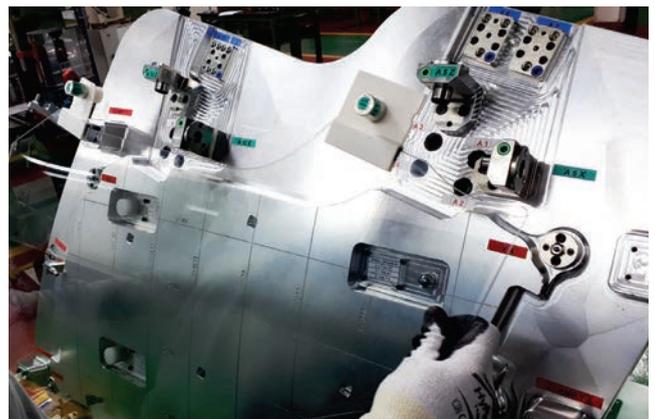
In developing comprehensive solutions for automation, tooling and supervision across the automotive, architectural, flat and float glass sectors, IOCCO adopts a modular, digital and efficiency-oriented approach. The company supports every stage of the glass transformation process - from handling to pre-processing,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

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

PRECISION TOOLING

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

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



integrity and flexibility in handling complex or asymmetric geometries.

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

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

ABOUT IOCCO

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



INTEGRATED SOLUTIONS

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



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

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



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In driving flat glass decarbonisation, **GLASS FOR EUROPE** shines



For years, Europe's flat glass industry has operated at the crossroads of energy-intensive production and rapidly expanding demand for advanced glazing technologies. Today, however, the sector stands before a structural transformation: the imperative to decarbonise melting processes while simultaneously delivering new functionalities for buildings, mobility, health and digital infrastructure. As summarised by Glass for Europe, flat glass is essential to climate-neutrality, circularity, digitalisation, safety, health, innovation, and this broad relevance amplifies the urgency of a successful yet highly-challenging transition.

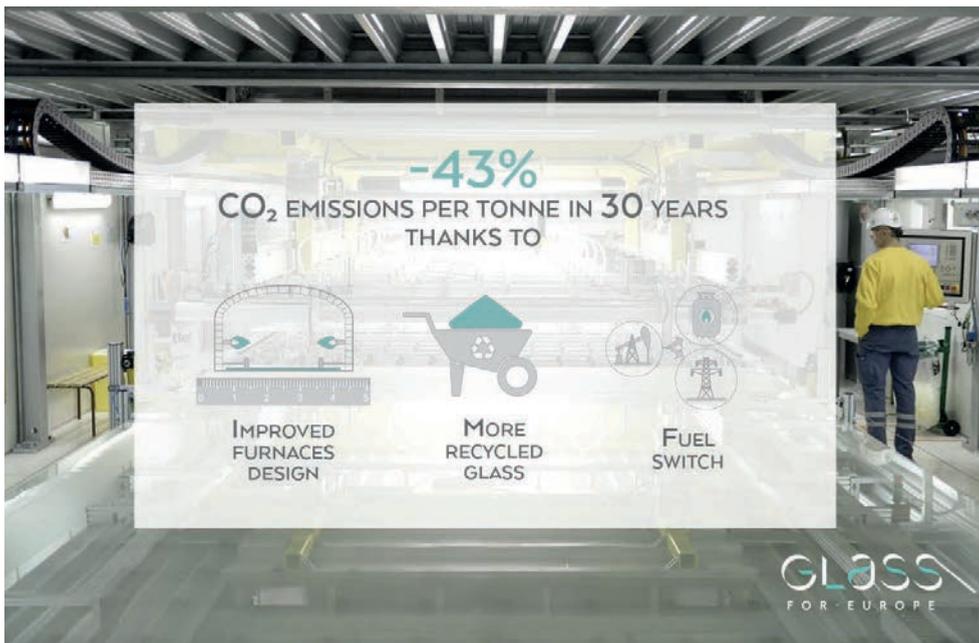
A SECTOR CENTRAL TO EUROPE'S STRATEGIC GOALS

Flat glass applications continue to diversify, enhancing energy efficiency,

providing interactive digital interfaces and enabling automated mobility. High-performance glazing contributes to building energy savings, while extra-clear glass increases solar-energy capture. Advances in digital integration – such as touch-enabled surfaces, smart mirrors, telecom signal-optimising glazing, or invisible sensors and radars – further demonstrate how the material is evolving into a foundational enabler of Europe's digital econo-



Outlining the sector's efforts to reduce CO₂ emissions in flat glass production, **GLASS FOR EUROPE** takes its vision forward in new melting technologies, improved recycling, energy-system adaptation and ecosystem-wide cooperation. The association stresses that efficiency, hybrid melting and enhanced circularity form the essential pillars in Europe's low-carbon transition.



site combustion emissions, is not yet ready for flat glass production at industrial scale.

Biogas: A renewable alternative, but hampered by limited availability and insufficient infrastructure. These constraints make large-scale adoption difficult without broader European energy-system restructuring.

Hydrogen: A promising vector, potentially compatible with high-temperature processes, but still dependent on extensive infrastructure and sustainable production methods.

Hybrid melting: The PPT identifies hybrid technology

my. Meanwhile, specialised hygienic glass for hospitals and high-exposure environments underscores the material's health value. And with flat glass being fully recyclable, improving collection systems could significantly enhance circularity. This breadth of societal contribution reinforces the trade association's mandate: to support the sector's pathway toward sustainability, competitiveness and innovation in a context where melting represents the core environmental challenge.

UNDERSTANDING TODAY'S MELTING LANDSCAPE

Europe's flat glass furnaces are already highly efficient relative to global benchmarks, yet further reductions in CO₂ emissions require a shift away from fossil-based heat sources. The landscape of available low-carbon options remains complex, marked by technological maturity gaps, infrastructural limitations and economic pressures.

Electricity: Full-electric melting, while attractive in theory due to zero on-





-combining combustion and electrical boosting- constitutes a very probable middle-term solution, providing a realistic bridge between current operations and long-term carbon-neutral technologies. Together, these options illustrate that decarbonising flat glass is not merely a matter of fuel substitution but of turning technological promises into viable solutions, investment and systemic energy transformation.

THE ECONOMIC AND OPERATIONAL EQUATION

The transition toward low-carbon melting carries heavy capital expenditure for furnace upgrades and rebuilds, combined with operational expenditure challenges tied to energy costs and market competitiveness. Higher energy costs inevitably mean higher glass and glazing costs, which could hamper both the decarbonization of buildings and the industry's competitiveness in a fully open market. This makes the planning and timing of each furnace rebuild critical. The solutions

adopted in the coming years will shape the sector's carbon footprint for decades.

RECYCLING: EXPANDING EVERY POSSIBLE AVENUE

Improving recycling remains a key component of decarbonisation. Although flat glass is intrinsically recyclable, bottlenecks in collection systems prevent the sector from fully benefiting from its circular potential. Multiple tracks are now being pursued to expand cullet availability and optimise its use. Greater recycling directly reduces CO₂ emissions by lowering melting temperatures and reducing raw-material demand.

But unlocking this potential requires systemic cooperation: better collection logistics, upgraded sorting technologies and expanded recycling streams across construction, renovation and end-of-life sectors.

RESEARCH AND EFFICIENCY AS STRATEGIC PILLARS

Beyond energy sources and

recycling, the PPT highlights an industry investing heavily in furnace efficiency, raw-material optimisation, logistics and automation. These parallel efforts are essential for a holistic decarbonisation roadmap.

More efficient furnaces reduce energy demand regardless of the energy vector. Improved raw materials can lower melting temperatures or help stabilise new hybrid processes. Enhanced logistics and automation streamline operations, avoid waste and support consistent energy use - every incremental gain becoming vital throughout the value-chain.

A VALUE-CHAIN CHALLENGE REQUIRING COOPERATION

The decarbonisation of flat glass is not a task for manufacturers alone. It is a challenge for the entire flat glass eco-system requiring cooperation. From energy suppliers and raw-material producers to building designers, recyclers and policymakers, collective alignment is indispensable.

Infrastructure for biogas, hydrogen and renewable electricity must expand. Regulatory frameworks must support

investment cycles. Customers must embrace low-carbon products and facilitate glass recovery. Research centres must accelerate trials. Logistics networks must adapt to circularity needs.

A CLEAR DIRECTION, A COMPLEX JOURNEY

The flat glass industry has charted its direction: constant sustainability improvements through a combination of advanced efficiencies, recycling, hybrid melting and low-carbon energy sources. The possibilities are tangible, but so are the constraints. Technology maturity, infrastructure, cost and availability will define the pace.

Yet the potential rewards -lower emissions, stronger circularity, smarter and safer applications and deeper integration into Europe's digital and energy transition- all position flat glass not merely as a sector undergoing transformation but as an essential driver of Europe's sustainable future.




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Milano-Cortina 2026: PILKINGTON's 'Competition Material' for indoor sports

Highlighting PILKINGTON glass in indoor sports venues where transparency, safety and visual comfort converge to enhance performance, Milano-Cortina 2026 showed how extra-clear, laminated and anti-reflective solutions can improve colour fidelity, impact resistance and glare control. While supporting athletes at major international competitions, such solutions also protect spectators and optimise lighting - all without compromising design.

The Winter Olympic Games provided a valuable opportunity to reflect upon the role of glass quality in the design of indoor sports facilities - particularly for barriers and separations between spectators and competition areas. In arenas and sports halls, glazing has a direct impact on visual experience, safety and the management of reflections generated by artificial lighting. Within this context, Pilkington-





ton Italia have underscored several key selection criteria for the design of indoor sports venues, where transparency is not merely an aesthetic feature but also a functional requirement for fully enjoying a sporting event.

TRANSPARENCY AND COLOUR RENDERING THAT ENHANCE VISUAL QUALITY

The readability of sporting action is influenced at indoor events by contrast, colour perception and depth of field. Indeed visual quality is one of the fundamental elements in indoor sports facilities. Here the use of extra-clear glass such as Pilkington Optiwhite™ makes it possible to achieve superior transparency and exceptionally faithful colour rendering. Thanks to a significant reduction in iron oxide content compared to standard glass, Pilkington Optiwhite™ eliminates the typical greenish tint and delivers natural, vibrant colours. This aspect is particularly relevant in ice sports, where

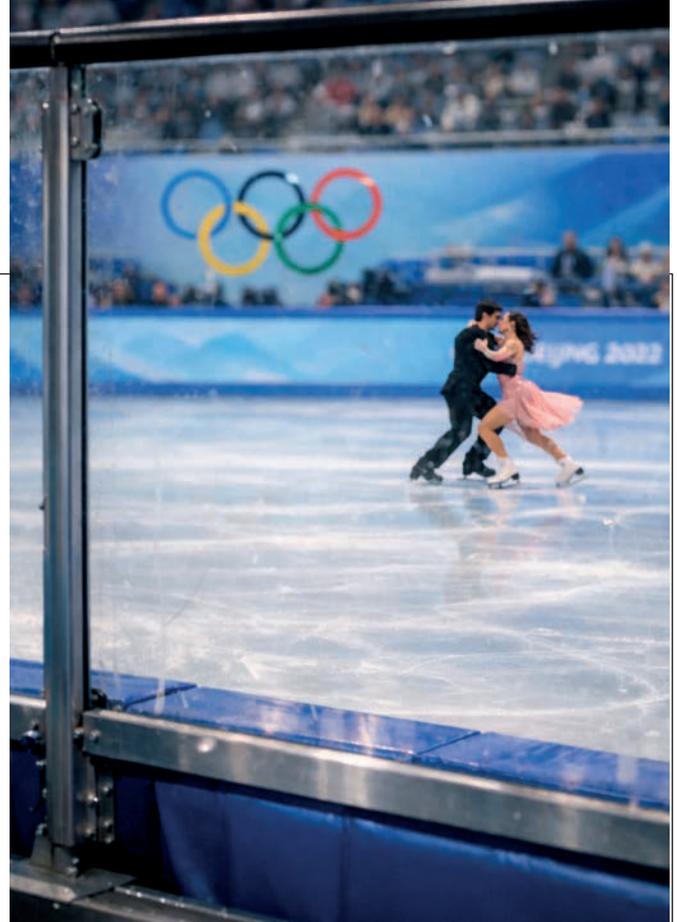
the contrast between surfaces, markings and athletes' uniforms plays a crucial role in the perception of movement and in the overall quality of the spectator experience.

SAFETY AND VISUAL PROTECTION

Alongside transparency, safety is an essential requirement in all sports environments where spectators are located close to the field of play. Pilkington Optilam™, also available in an extra-clear Optiwhite™ version, is a laminated safety glass designed to withstand impact and to retain fragments in the event of breakage. These characteristics make it especially suitable for dynamic, high-impact sports such as ice hockey and skating, while also being highly effective in many other indoor applications where the protection of people is a top priority.

VISUAL COMFORT AND GLARE TRANSPARENCY

In indoor sports venues, visual quality is closely linked to



lighting conditions. Artificial lighting –often very intense– can create reflections on glass surfaces that interfere with the perception of sporting action. Pilkington OptiView™ Ultra Protect combines the properties of extra-clear laminated safety glass with an anti-reflective coating specifically designed to minimise these effects. This solution ensures high colour fidelity, excellent light transmission and clear vision, significantly enhancing the spectator experience. At the same time, it contributes

to personal safety by eliminating the risk of falling where glass is used as a balustrade or transparent barrier. Beyond the Olympic event itself, the design of contemporary sports facilities increasingly requires materials capable of balancing performance with user experience: seeing better, protecting more effectively and managing light more efficiently. Milano-Cortina 2026 therefore represented a concrete opportunity to bring glass –often taken for granted– back to the centre of technical choices that define the safety and quality of indoor spaces.

ABOUT NSG GROUP

One of the world's leading manufacturers of glass and glazing systems, NSG Group operates in three main business areas, namely Building, Automotive and Creative Technology. In 2006, it acquired Pilkington, the world's leading glass supplier. Today NSG Group operates globally with commercial activities in more than 100 countries. Its Building business produces and supplies glass for construction, solar energy applications and other sectors, whereas its Automotive business includes original equipment automotive glass (AOE) and original replacement glass (AGR). Finally, its Creative Technology business encompasses a range of activities, including printer and scanner lenses, specialty glass fibre products such as engine timing belts and glass flakes and thin glass products.



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EVALAM: Safety and Aesthetics for Long-Lasting Railings



In contemporary architecture, glass railings have moved beyond their purely functional role to become defining design elements. Open-edge solutions, where the glass remains fully exposed, are especially valued for their visual lightness and

are indeed widely specified in residential, commercial and public buildings. Yet this minimalist aesthetic introduces a critical technical challenge, namely delamination. Originating in the interlayer, delamination appears as whitish halos, bubbles or internal edge stains.

Its presence compromises both appearance and structural integrity, often resulting in costly claims and even legal disputes. For architects, developers and fabricators, this risk underscores the need to prioritise techni-

cal performance alongside design intent. Material selection, therefore, must extend beyond visual criteria. It must meet demanding technical requirements that ensure long-term durability and reliability against environmental and climatic

Glass railings demand more than just aesthetics. EVALAM® highlights how its interlayers prevent delamination thanks to superior moisture resistance, thermal stability, and structural adhesion. Designed and certified for outdoor use, the solution ensures long-lasting transparency, reducing the risk of claims in exposed, open-edge architectural applications.



risks in open-edge exterior glass railings.

RELIABLE PERFORMANCE AGAINST MOISTURE

EVALAM® is non-hygroscopic, meaning it does not absorb ambient moisture. Compared to other interlayer options available in the market it offers significantly higher resistance to humidity - a performance demonstrated through rigorous destructive testing to ensure long-term stability. Its outdoor certification makes it a reliable choice even in coastal climates or high-humidity environments. This is particularly relevant when paired with demanding fixing systems such as embedded 'U' profiles - whether visible or hidden - or glass machining anchors. While these systems deliver elegant visual solutions, they also increase the risk of water infiltration and accumulation, potentially leading over time to delamination, fogging or structural degradation.

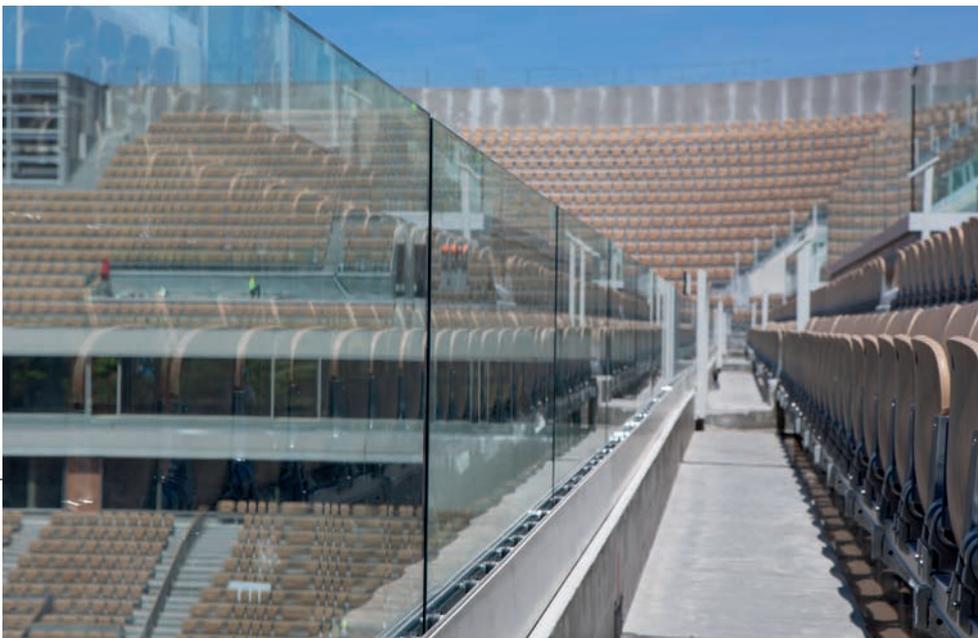
THERMAL STABILITY

Formulated to withstand intense sunlight and high temperatures, EVALAM® maintains its physical properties without softening or deforming. The result is preserved appearance, transparency and durability, even in

stress, providing confidence and peace of mind regarding potential post-sale claims. EVALAM® addresses pre-

cisely this challenge as a unique interlayer within its segment, given that it's engineered to reduce post-sale risks and support respon-

sible specification. Developed, formulated and certified specifically for outdoor applications, it is designed to eliminate delamination





extreme climates or on sun-facing façades.

OUTSTANDING STRUCTURAL ADHESION

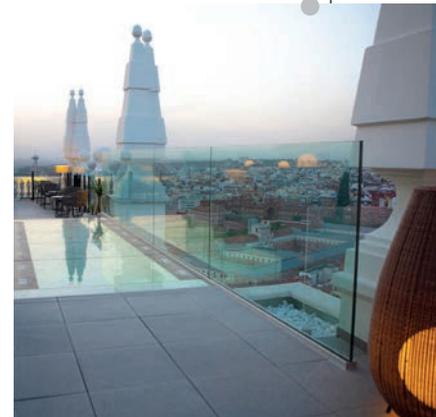
During lamination, chemical crosslinking generates a

solid block capable of withstanding continuous mechanical stress without compromising the integrity of the laminated glass railing. Accredited tests show adhesion values that in many cases triple those of other mar-

ket solutions. This makes it particularly reliable for clamp or side-profile fixing systems, where the laminate must remain fully bonded to the glass - without delaminating, sliding or deforming over time.

LONG-LASTING TRANSPARENCY

An advanced formulation ensures exceptional optical clarity, free from yellowing, fogging or loss of sharpness, even after prolonged exposure to UV radiation and moisture. This stability is especially advantageous in laminated glass railings incorporating LED lighting, as it does not interfere with RGB White colour reproduction. In a market where aesthetic ambition must align with long-term performance, EVALAM® offers a technically robust solution for open-edge glass railings, thereby reinforcing both safety and design integrity.



Evalam

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Expanding global footprint strengthens **TECNOCAT** industry leadership

With more than 28 years of experience, Tecnocat has established itself as an international benchmark in machinery for flat glass handling. Present in multiple markets, the company develops solutions that combine safety, control and efficiency at every stage of glass movement. The company's value proposition is rooted in total specialisation. Tecnocat designs and manufactures equipment for both on-site installation and factory environments, structured into two major product series that cover the glass value chain.

COMPREHENSIVE SOLUTIONS ACROSS THE VALUE CHAIN

Its portfolio ranges from on-site installation machinery

to factory equipment for production lines, including lifting systems that optimise workflow, solutions for handling large formats or material packs and sorting systems that help organise and streamline production processes. Rather than simply manufacturing machines, the company develops solutions focused upon addressing the real operational needs of the sector, offering a global vision of glass movement.

Durability, reliability and safety define the pillars of the Tecnocat brand. Equipment is engineered for intensive, real-world use under demanding and sustained working conditions. It is not uncommon to find Tecnocat machinery still operating after more than two decades whilst main-



taining high levels of safety and efficiency. Durability is approached not as a marketing argument, but as an industrial responsibility. Reliability is equally central. Each machine is designed to allow operators to work with complete confidence,

With more than 28 years advancing flat glass handling through specialised solutions for installation and factory environments and its strong focus upon durability, reliability and safety, TECNOCAT continues to combine manufacturing control, modular systems and a robust international distributor network - all to support glass professionals worldwide.

regardless of movement complexity or working environment. In a sector where every movement matters, reliability translates into op-

erational continuity, risk reduction and peace of mind. As a manufacturer, Tecnocat designs, develops and produces its own equipment, maintaining control



over the entire process and direct contact with market needs. This proximity to glass professionals results in robust, easy-to-handle and intuitive solutions that facilitate daily operations. Safety complements these values: all equipment complies with the most demanding European regulations and undergoes regular inspections and controls. For the company, safety is an essential component of the trust placed in its brand.

INTERNATIONAL GROWTH AND DISTRIBUTION STRENGTH

Over more than 28 years, Tecnocat's growth has progressed alongside the development of the glass industry itself. Continuous product improvement, range expansion and an increasingly strong international presence have marked this trajectory. Active participation in international trade fairs and events, particularly in Europe and South America, has strengthened professional relationships, identified market trends and enabled the company to present its solutions directly to the sector.

Today, Tecnocat equipment forms part of the daily

operations of hundreds of companies in both industrial environments and on-site installation businesses. A key factor in this consolidation has been close collaboration with a loyal network of highly specialised distributors across Europe and Latin America. Carefully selected for their sector knowledge, technical expertise and proximity to end users, these partners ensure correct specification, implementation and support in each local market.

This distributor-based model enables the company to provide not only equipment, but also technical advice, after-sales service and ongoing support. Working hand in hand with trusted local partners ensures fast response times, effective training and a direct connection with the real needs of glass professionals.

THE TECNOCAT ECOSYSTEM AND CUSTOM ENGINEERING

Modularity is one of the most valued differentiators. Tecnocat has developed standardised, configurable systems that allow gripping surfaces and load capacity to be adapted to different weights, formats and applications. This philosophy



made equipment that integrates seamlessly into real working processes in both factory and installation environments.

After more than 28 years, Tecnocat continues to evolve with a clear conviction: trust is built piece by piece, grounded in proven reliability in every project. The company's ambition remains to be a reliable, close and committed technical partner for professionals who work with glass worldwide.



has evolved into what the company calls the Tecnocat ecosystem: an approach based on intelligent standardisation, equipment compatibility and operational coherence.

Shared components, compatible controls, interchangeable

elements and a common operating logic allow companies to manage machinery fleets more efficiently and intuitively. Comparable to a technological ecosystem applied to industry, this concept enhances connectivity and operational consistency.

At the same time, the company's engineering and R&D capabilities allow for the development of customised solutions when projects require it. Beyond standard products, Tecnocat supports customers in specific challenges, designing tailor-



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SPECIAL FEATURE

FIRE RESISTANT GLASS





SPECIAL FEATURE

A defining moment for modern glazing: FIRE RESISTANT GLASS

Fire Resistant Glass is redefining fire safety in buildings through extended resistance classes, large-format capability, advanced interlayers and certified European compliance. Supporting integrity, insulation and radiation control whilst enabling daylight and transparency, it now plays a central role worldwide for processors, manufacturers and architects alike.

Moving beyond its former role as a specialist building material, Fire Resistant Glass is now also a core component of contemporary architectural and glazing strategies. That evolu-

tion reflects wider changes in how buildings are being designed, regulated and experienced - particularly where transparency, safety and performance must all coexist without compromise.

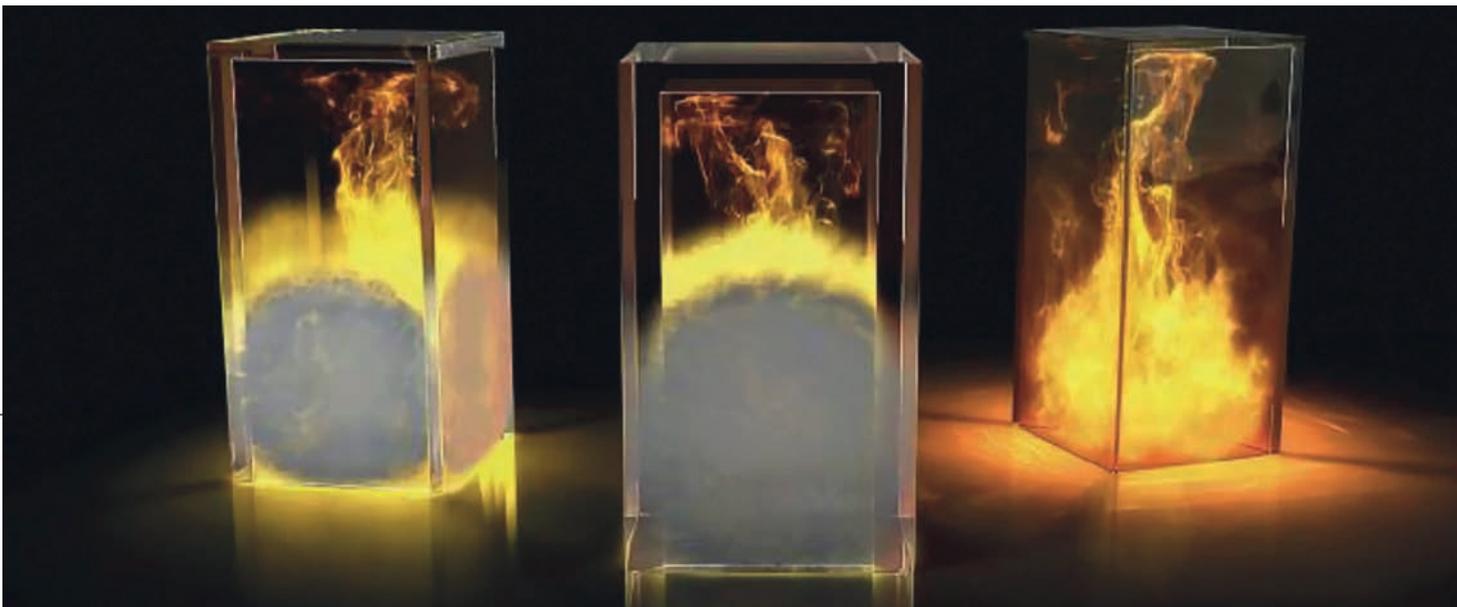
Across internal and external

building applications, Fire Resistant Glass is increasingly specified to deliver defined levels of fire protection whilst supporting daylight, visibility and spatial openness. This shift has been enabled by advances in glass construction, interlayer technology, production ca-

pability and system testing - positioning fire-rated glazing as a mainstream solution within the flat glass industry.

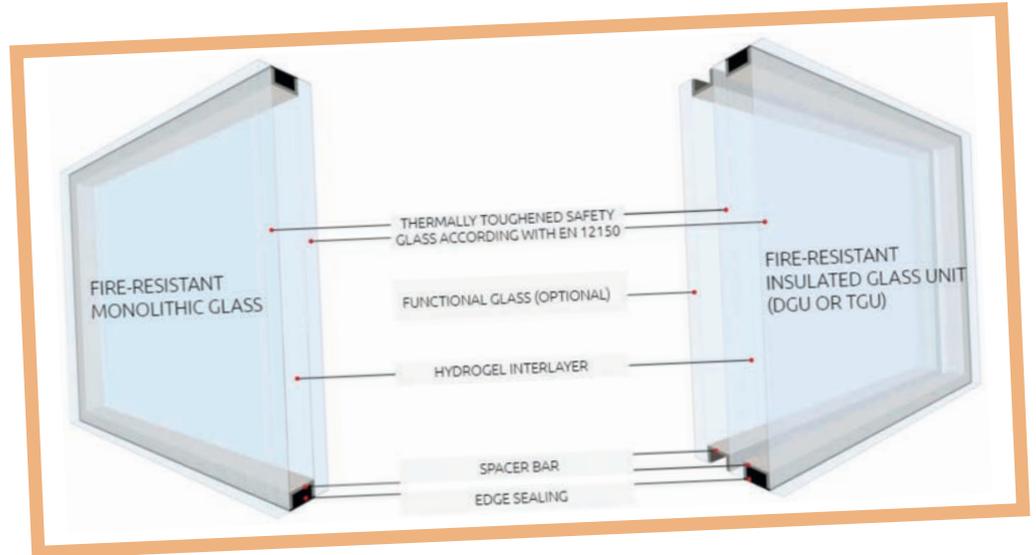
CLASSIFICATION

A defining characteristic of modern Fire Resistant Glass is the breadth of fire resistance classes now available.



Glazing solutions are produced to meet integrity-only requirements, integrity with reduced heat radiation and full integrity combined with thermal insulation. These performance levels are defined under EN 13501-2 and extend from shorter resistance times to durations of up to 180 minutes.

Integrity-rated fire glass provides a barrier against flames and hot gases, while variants offering radiation control limit the transfer of heat to the non-fire side. Fully insulating fire-resistant glass delivers both integrity and thermal insulation, effectively blocking the transmission of conductive and radiant heat. This range al-



lows fire performance to be aligned precisely with building fire strategies rather than restricting design outcomes.

CAPABILITY

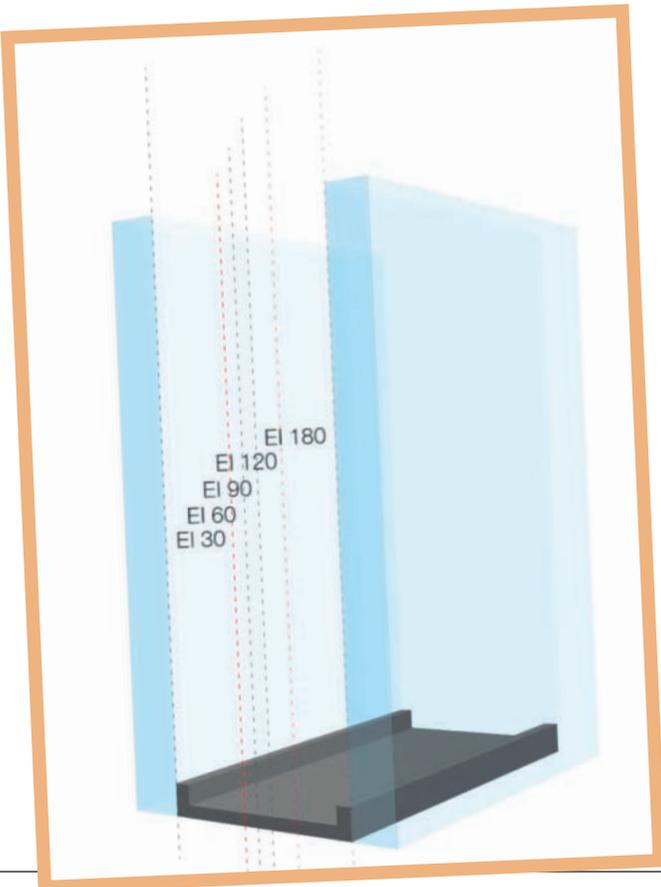
Fire Resistant Glass is no longer constrained by size or form. Large-format and curved fire-resistant glazing is now produced across multiple fire resistance classes, supporting expansive architectural applications. These capabilities are underpinned by pioneering production technologies and in-house testing facilities that ensure consistent performance at scale.

The on-site production of fire-reactive interlayers, in-

cluding hydrogel and intumescent materials, further strengthens quality control and supply reliability. For manufacturers and processors, this vertical integration supports repeatable performance while meeting the increasing demand for complex, high-performance glazing.

APPLICATION

Modern Fire Resistant Glass is designed for both interior and exterior use and can be incorporated into a





spread of flames, smoke and hot gases.

In addition to fire performance, these systems deliver high light transmission and unobstructed vision under normal conditions. Clear intumescent interlayers provide a visible barrier to flames during a fire event, which can help reduce panic and support safer evacuation. Impact safety and effective noise control further enhance the functional value of fire-rated glazing.

COMPLIANCE

Compliance and verification are central to the growing adoption of Fire Resistant Glass. Products are extensively tested in a variety of framing materials and glazing systems to ensure that declared performance is achieved in real-world applications. CE marking and adherence to harmonised European standards provide assurance of consistency, traceability and regulatory acceptance.

Available in different thicknesses and compositions for internal or external use and supplied as monolithic panes or insulating glass units, Fire Resistant Glass offers flexibility without compromising compliance. This combination of certified performance, design freedom and production capability explains why fire-rated glazing has now become an irreversible, defining trend within the global flat glass industry.

wide variety of framing systems. It is compatible with steel, aluminium and timber frames, as well as monolithic configurations and insulating glass units. Seamless integration within plaster-board walls and butt-joint glazing systems allows fire protection to be embedded discreetly within architectural layouts.

Applications now extend across transparent fire walls, doors, windows, screens, partitions, façades, atriums, stairwells, storefronts, lot-line glazing, floors and roof elements. Vertical, inclined and horizontal installations enable large glazed areas to meet fire safety requirements while maintaining daylight and visual continu-

ity - replacing opaque constructions that previously limited design flexibility.

PERFORMANCE

The performance of Fire Resistant Glass is achieved through multi-layer constructions using clear glass laminated with transpar-

ent fire-reactive interlayers. When exposed to fire, the pane facing the flames fractures but remains in place, while the interlayer reacts immediately, foaming to form a thick, rigid insulation shield. This barrier absorbs energy from the blaze and restricts the



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SPECIAL FEATURE

High-speed CNC glass solutions by CMS

Introducing CMS Sprint, a high-performance CNC cutting solution that combines speed, precision and automation. Engineered for both fire-resistant and safety glass, it can handle complex laminated materials and will boost productivity - all whilst enhancing operator safety to help glass processors meet the most demanding architectural and industrial standards worldwide with proven reliability.

DISCOVERING CMS SPRINT

Cutting fire-resistant and safety glass constitutes one of the most demanding tasks in glass processing. These high-performance materials require absolute precision, robust machinery, and total reliability to meet stringent quality and safety standards. To answer this challenge, CMS Glass Technology has developed a solution that combines advanced engineering with production efficiency, namely CMS Sprint.

ADVANCED TECHNOLOGY FOR COMPLEX GLASS PROCESSING

CMS Glass Technology is a global leader in curved and

flat glass processing systems, offering state-of-the-art solutions such as CNC machining centres, cutting tables, seaming machines, and waterjet cutting systems. Drawing on decades of expertise, CMS supports glass processors who need to work fire-resistant, laminated, and safety glass with confidence and consistency. CMS Sprint is a 5-axis CNC cutting machine equipped

with a high-performance diamond cutting disc, specifically-designed to boost productivity whilst maintaining exceptional cutting accuracy. It is ideal for processing laminated, fire-resistant, and safety glass - even in the most demanding industrial environments.

PRECISION, VERSATILITY AND PRODUCTIVITY

Sprint enables the cutting of square, rectangular, and polygonal glass shapes, performing both vertical cuts and precise 45° inclined blade cuts. This flexibility makes it suitable for a wide range of architectural and technical glass applications.





ity and safety CMS Sprint represents the ideal solution for cutting fire-resistant and safety glass. It enables glass processors to meet the highest quality standards while optimising production efficiency - turning one of the industry's toughest challenges into a competitive advantage.



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www.cms.it

Designed to adapt seamlessly to different production layouts, CMS Sprint can be configured for manual loading and unloading, for automatic loading and unloading via an anthropomorphic robot, or for automatic slab transfer through roller conveyors connected to washing stations.

In every configuration, Sprint is equipped with an onboard vacuum manipulator that automatically moves and spaces glass sections after cutting. This feature simplifies operations, speeds up cycle times, and significantly improves operator safety by eliminating manual separation of glass sheets.

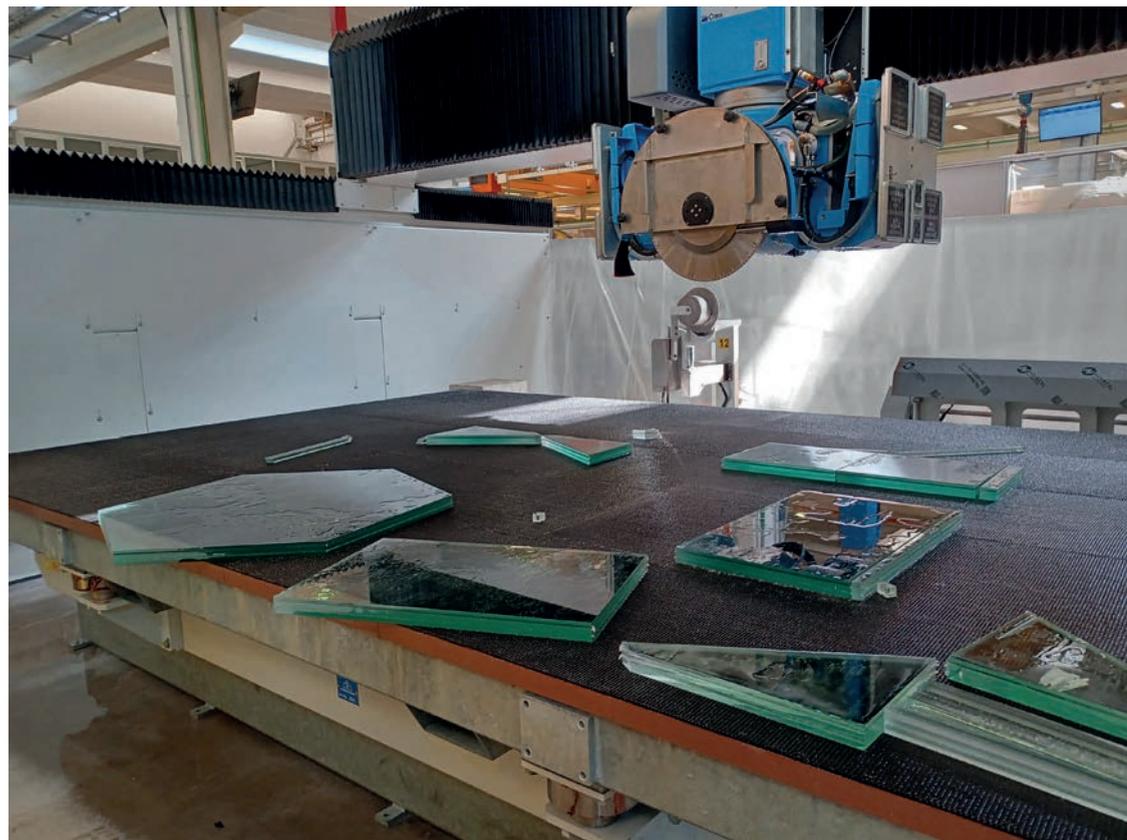
PERFORMANCE THAT MAKES THE DIFFERENCE

CMS Sprint delivers outstanding performance, with cutting speeds of up to 3,000 m per min, the ability to process glass thicknesses of up to 100 mm depending

upon the cutting disc, and a productivity increase of 33 percent that's made possible by the onboard vacuum manipulator.

THE IDEAL SOLUTION FOR FIRE-RESISTANT AND SAFETY GLASS

With its combination of speed, precision, flexibil-





SPECIAL FEATURE

Enhanced fireproof glass solutions from TRIULZI

TRIULZI developed over more than 10 years, fully automated solutions for fireproof glass process. Its gel vacuum processing line and heavy-duty washing systems improve precision, efficiency and safety while supporting efficient production. Installed across Italy and Europe, Triulzi technology delivers consistent quality for demanding fire-resistant glass applications.

Fireproof glass plays a crucial role in ensuring safety in public spaces such as schools, hospitals, offices, and transportation hubs. Its capacity to withstand high temperatures while preventing the spread of flames makes it an essential component in modern construction, where safety requirements are increasingly stringent. At the same time, fireproof glass maintains transparency and aesthetic value, allowing architects and designers to meet both functional and visual demands. To address the growing need for high-quality fireproof

glass, Triulzi has developed an innovative, fully automated and trademark fireproof glass processing line. Designed to streamline production, this solution focuses on precision, efficiency and consistency, supporting manufacturers in meeting demanding safety standards while improving operational performance as well as better finishing.

AUTOMATED PRECISION FOR CONSISTENT FIREPROOF GLASS PRODUCTION

At the core of Triulzi's approach is its developed in house automatic gel vacuum system for fireproof glass

processing. This fully automated line is engineered to reduce manual intervention throughout the production cycle, increasing productivity while minimizing the risk of errors associated with repetitive operations. Automation also helps reduce physical strain on operators, supporting safer and more sustainable working conditions. The machinery is adaptable to different glass sizes and thicknesses, responding to varied production requirements and enabling manufacturers to process fireproof glass for multiple applications within a single automated platform. This flexibility allows the system to support evolving market

demands while maintaining consistent quality standards across all output.

EFFICIENT DESIGN AND PROVEN INSTALLATIONS

Triulzi's fireproof glass processing line is distinguished by its eco-friendly design. The system uses energy- and water-efficient processes, aligning production performance with responsible resource management. This efficiency supports lower operating impact while maintaining the precision required for high-quality fire-resistant glass. The effectiveness of the solution is demonstrated



Key features include a dedicated pre-washing section for removing coarse contaminants, followed by high-performance intensive washing to achieve perfectly clean glass surfaces. An automatic edge suction system removes residual water from glass edges, preventing dripping during subsequent processing stages, while effective and uniform drying helps avoid optical defects. The washing line also incorporates built-in remote assistance for fast diagnostics and online technical support, helping reduce downtime. Simplified predictive maintenance supports production continuity, lowers operating costs and extends machine lifetime. Integrated safety barriers and fences ensure full compliance with operator safety regulations, reinforcing Triulzi's emphasis on safe and reliable industrial solutions.

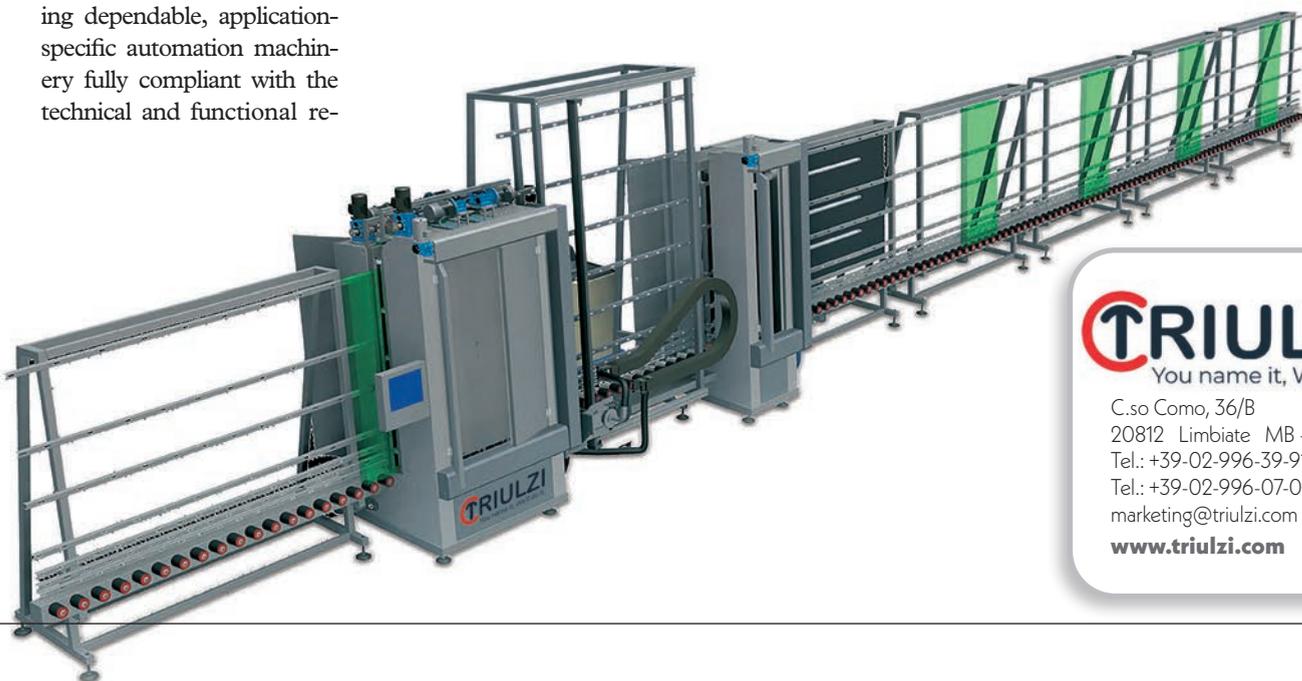
by installations across Italy and Europe, where customers have provided positive feedback on system performance. These operational results confirm the line's reliability in real production environments and reinforce Triulzi's focus on delivering dependable, application-specific automation machinery fully compliant with the technical and functional re-

quirements for ind. 5.0 and hyper-amortisation.

HEAVY-DUTY WASHING FOR FIRE-RESISTANT GLASS APPLICATIONS

Complementing its processing technology, Triulzi offers

a heavy-duty washing line designed for high-complexity industrial applications involving fire-resistant glass. This washing line is capable of handling extra-thick glass panels even over 100 mm, ensuring thorough cleaning even under demanding conditions.



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SPECIAL FEATURE

GLASS COMPANY

redefines fire resistant
production with
FIREMEK

Advancing fire-resistant glazing through its FIREMEK production line, GLASS COMPANY is transforming certified products into controlled in-house processes. By integrating intumescent chemistry, automation and certification-driven manufacturing, the company is strengthening technological autonomy, design flexibility, durability and multi-threat glazing capabilities - all within European E, EW and EI performance standards.



Fire resistant glazing is entering a new phase of industrial maturity. What was traditionally regarded as a highly-specialised finished product supplied by a limited number of manufacturers is increasingly becoming an integrated production capability within glass processing companies. This shift reflects a broader evolution in the glass industry. Processors are seeking greater technological autonomy, stronger control over performance and improved flexibility in both delivery and customisation. Fire resistant glass is therefore moving from being an externally-sourced certified product to becoming a controlled, internal manufacturing process.

FROM CERTIFIED PRODUCT TO IN-HOUSE CONTROLLED PROCESS

FIREMEK is a dedicated production line designed to allow glass processors to manufacture fire resistant glazing in-house, covering the main European performance classes E, EW and EI. These classifications define distinct levels of protection. Integrity class E ensures resistance to flames and hot gases. Class EW adds control of radiant heat transmis-

sion, limiting heat radiation on the non-exposed side. Class EI combines integrity with thermal insulation, significantly reducing temperature rise behind the glazing during fire exposure. By internalising production, processors gain direct control over dimensions, multilayer configurations and integration into complex façade or partition systems. It is important to distinguish between the FIREMEK production line and the intumescent interlayer itself. FIREMEK is the industrial system -the engineered process environment- that enables consistent and certified manufacturing. The intumescent dispersion, selected and supplied as part of the FIREMEK solution, represents the functional material component of the fire-resistant glass, comparable in importance to the glass panes themselves within the final construction. This dispersion is based on advanced inorganic intumescent chemistry. Its formulation has been carefully selected to ensure stability, reactivity under fire exposure and compatibility with industrial processing. When subjected to fire, the interlayer undergoes a controlled intumescent reaction, expanding and transforming into a rigid, opaque insulating



shield that blocks flames, reduces radiant heat transmission and delays temperature rise on the protected side.

The reliability of this reaction, however, depends not only on chemistry but on process precision - and this is where the FIREMEK production line plays a decisive role.

FIREMEK AS A PRODUCTION LINE

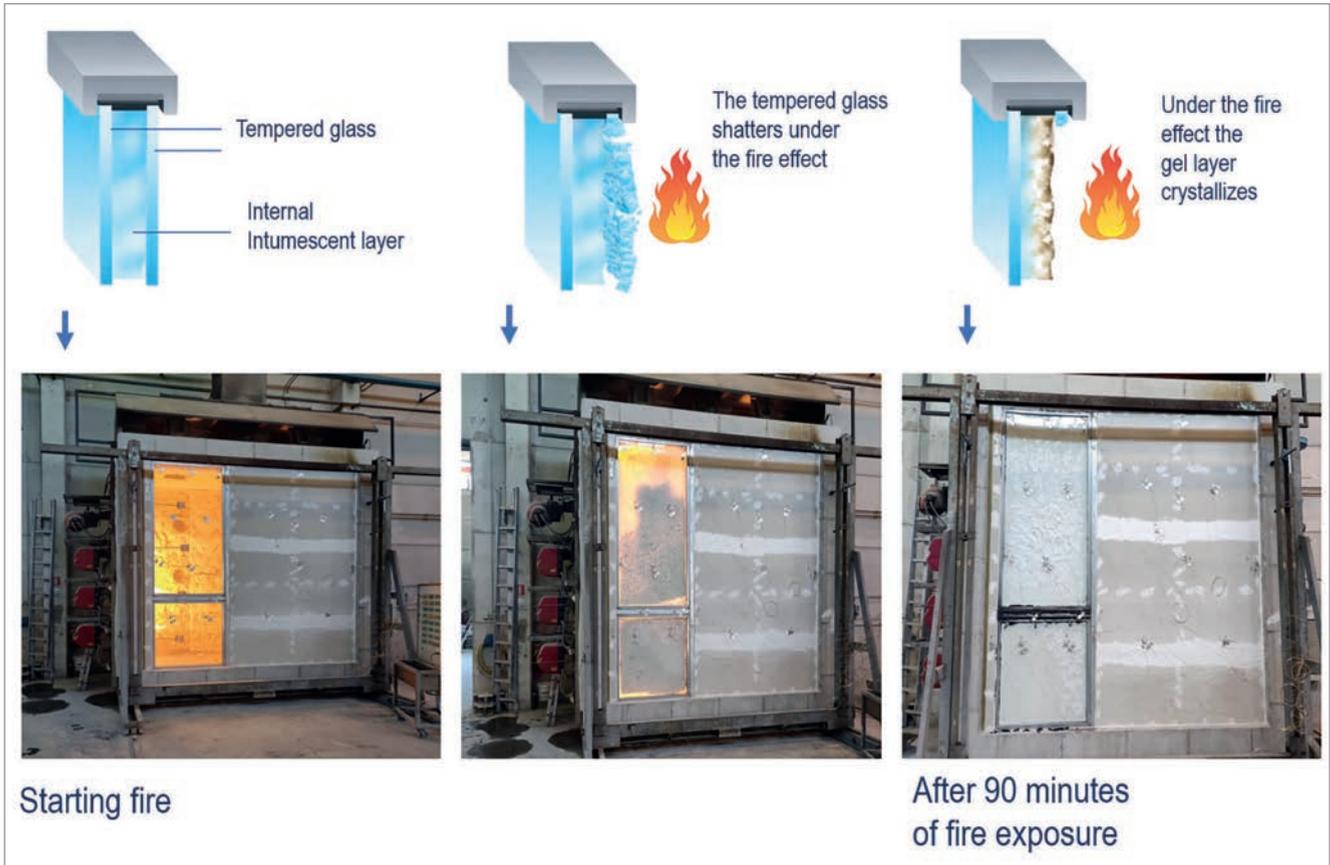
FIREMEK is not a material, but a complete industrial manufacturing platform designed for repeatability, stability and compliance. The production line integrates vacuum mixing technology to ensure homogeneous preparation of the intumescent dispersion, automated dosing systems for precise layer thickness control, assembly stations for spacer positioning and curing ovens with monitored thermal cycles. All process phases are controlled via PLC systems with advanced HMI, enabling parameter moni-

toring, batch traceability and production documentation. This structured workflow transforms fire-resistant glass production into a controlled industrial process rather than a semi-manual operation. The line ensures consistency of layer thickness, elimination of air inclusions, controlled curing behaviour and stable final performance. In this context, the intumescent dispersion can be seen as the functional core material, while FIREMEK represents the technological framework that allows that material to perform reliably within a certified glazing system.

DESIGN FLEXIBILITY AND SYSTEM INTEGRATION

Internal production through FIREMEK provides significant design flexibility. Processors can control glass dimensions, shapes and multilayer configurations without being constrained by pre-defined external formats.

SPECIAL FEATURE



The system supports integration into insulating glass units, enabling fire-resistant glazing to be combined with thermal insulation, solar control coatings and acoustic performance when required by the project specification. Compatibility with steel, aluminium and timber framing systems further expands application possibilities. It is essential, however, that these framing systems are themselves certified for fire resistance according to the relevant European standards. Fire performance is always the result of a

complete system -glazing and frame together- and certification must reflect this integrated approach. This system-level understanding strengthens the processor's technical credibility when working with façade engineers, architects and certification institutes.

DURABILITY AND MATERIAL STABILITY

Long-term durability is a decisive factor in fire-resistant glazing applications. Environmental exposure, UV radiation and moisture ingress can compromise perfor-

mance if materials and processing are not properly controlled. Within the FIREMEK system, the selected inorganic intumescent dispersion contributes to improved environmental stability compared to conventional organic alternatives. The chemistry has been chosen for its reduced sensitivity to UV degradation and moisture-related instability, supporting long-term reliability in demanding architectural environments. However, material stability alone is not sufficient. The performance of the final glass

unit depends equally on the precision of mixing, dosing, curing and edge sealing - all parameters governed by the FIREMEK production line. In this sense, durability is the result of both material formulation and process engineering working together as a unified system.

CERTIFICATION EMBEDDED IN THE SYSTEM

In fire-resistant glazing, certification cannot be separated from manufacturing discipline. Compliance with European fire standards depends

on the combination of glass panes, intumescent interlayer, layer thickness, curing parameters, framing system and installation method. The FIREMEK production line has been developed to align process control with certification requirements, embedding conformity into manufacturing practice. Testing, documentation and traceability are integrated within the industrial workflow, ensuring that performance claims are supported by consistent

production parameters. This integration reinforces market credibility and provides processors with a structured pathway to enter specification-driven fire protection markets.

EXPANDING TOWARD MULTI-THREAT GLAZING

Beyond standard fire protection, the market is increasingly exploring glazing solutions capable of addressing multiple risk scenarios. The controlled environment provided by the FIREMEK

production line supports research and development of hybrid systems combining fire resistance with ballistic or impact performance. Such configurations are relevant for high-security buildings, infrastructure projects, transportation and sensitive facilities. The ability to engineer multi-layer constructions internally enhances flexibility and accelerates innovation cycles, positioning processors as technological partners rather than simple product suppliers.

A STRATEGIC INDUSTRIAL EVOLUTION

Bringing fire-resistant glass production in-house through the FIREMEK line represents a strategic evolution for glass processors. It enables technological autonomy, improved control over lead times, enhanced customisation capabilities and deeper integration within the company's existing insulating glass and lamination operations. In an industry where performance consistency, certification integrity and reliability are fundamental, distinguishing clearly between the production platform and the functional interlayer material is essential. FIREMEK provides the industrial framework, while the selected inorganic intumescent dispersion delivers the reactive fire-protection performance within that framework. Together, they form a controlled and scalable system that transforms fire-resistant glazing from an externally sourced specialised product into an internally-managed industrial capability.



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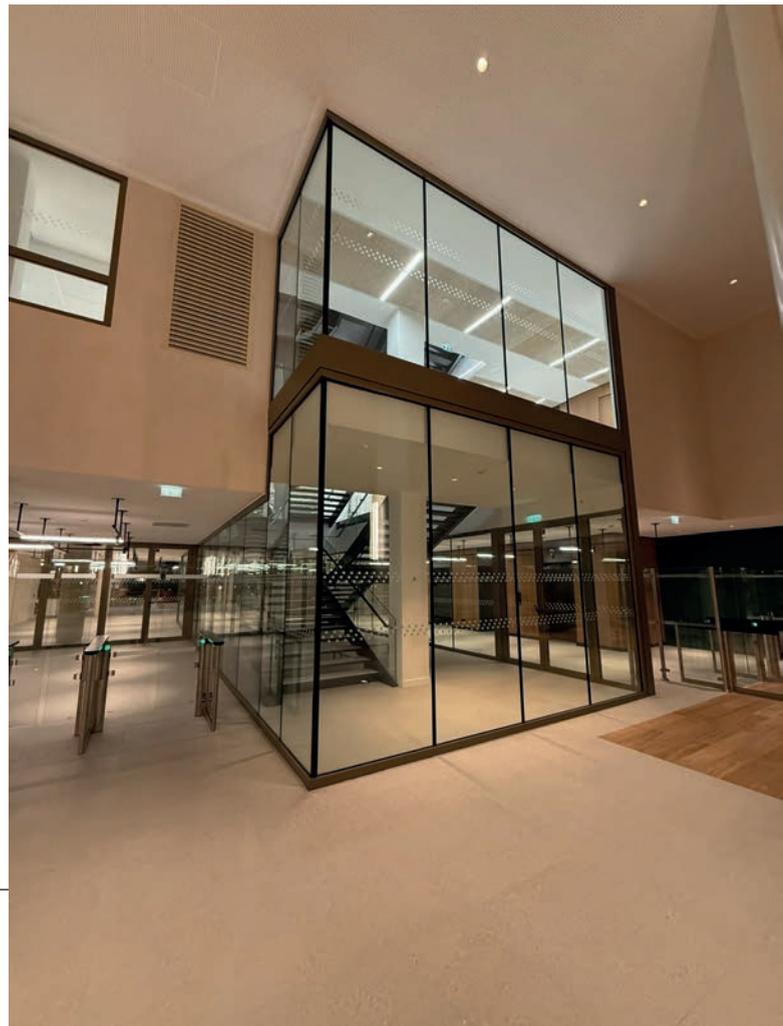
Sustainable Paris transformation achieved with PYROGUARD Protect EI60

Pyroguard, the world's leading independent provider of fire safety glass, has played a central role in the transformation of the former Canal+ corporate headquarters into Goodlife, an ambitious mixed-use development in Issy-les-Moulineaux, France. Originally constructed in 2002, the 28,000 m² l'Eiffel building comprises eight superstructure levels and five basement levels. Its reinvention demanded far more than a conventional refurbishment. Led by Atelier 115 Architects, the project introduced new vertical connections, expanded façade elements and a redesigned central patio, all supported by an enhanced steel structure. Central to this architectural rethink was the integration of high-performance fire

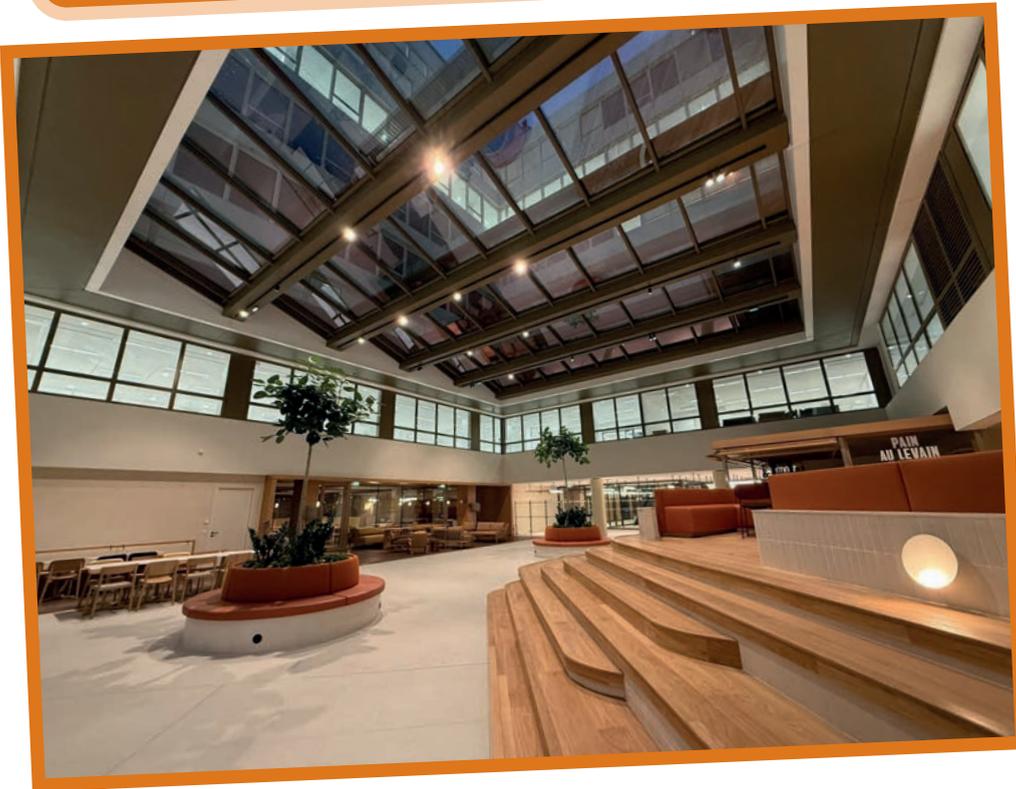
safety glazing that could reconcile transparency with uncompromising protection.

DESIGNING FOR LIGHT AND PROTECTION

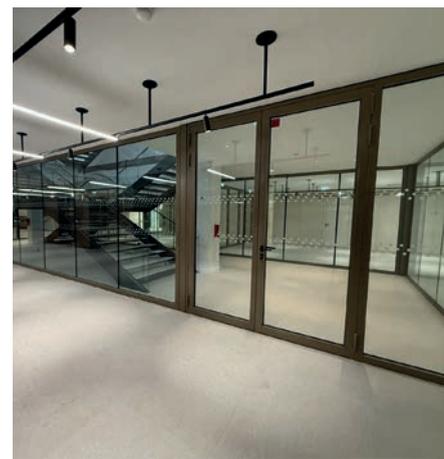
To realise the architects' vision of openness and visual continuity, 650 m² of Pyroguard Protect EI60 fire-rated glass was installed internally. The glazing forms edge-to-edge partitions around stairwells, the atrium and meeting rooms, enabling maximum natural light penetration whilst delivering 60 minutes of fire protection. In addition to its fire performance, the toughened glass offers superior acoustic properties, UV stability and a 1B1 impact classification, contributing to occupant comfort and long-term durability. Pyroguard



Specified for the ambitious Goodlife redevelopment in Issy-les-Moulineaux, PYROGUARD has supplied 650 m² of Protect E160 fire-rated glazing, enabling light-filled interiors with 60 minutes' protection. The project demonstrates how advanced fire safety glass supports sustainable adaptive reuse whilst meeting rigorous European performance standards.



will provide office space, public facilities including sport and wellness areas, as well as a restaurant and community hub. The development targets HQE, BREEAM and BBCA Renovation certifications - all underscoring its low-carbon, future-ready approach to adaptive reuse in the Paris region. The Goodlife project demonstrates how innovative fire safety glazing can integrate seamlessly with modern architecture to deliver bright, safe and sustainable spaces - where performance, aesthetics and environmental responsibility coexist.



Protect provides integrity and heat insulation from 30 to 120 minutes (EW Classification) and from 30 to 180 minutes (EI Classification). As a fully tested and certified solution to European fire safety standards, it supports both environmental compatibility and proven performance within sustainable façade systems.

TECHNICAL COLLABORATION IN ACTION

The project required close collaboration among specialist partners. MAF Atlantique acted as specialist designer and manufacturer,

developing and engineering the glazing solution. TSM France managed on-site installation, while Jansen supplied the structural steel frames. Pyroguard contributed both its fire-rated glazing and technical expertise, supporting the project from early specification and test certification through to installation to ensure seamless integration.

Jérôme Bastien, Regional Sales Director at Pyroguard, describes the scheme as “an excellent demonstration of how our advanced glazing technology can support the next generation of high-performance, low-carbon redevelopments,” and ac-

knowledged the collaborative contribution of MAF Atlantique and TSM France in achieving contemporary energy efficiency and environmental standards.

SUSTAINABILITY AND FUTURE-READY PERFORMANCE

Guillaume Leborgne, Directeur Général at MAF Atlantique, emphasised that Pyroguard’s technical guidance was essential in meeting the aesthetic and performance requirements of the project, resulting in a design aligned with sustainability goals. Now reimagined as a mixed-use ecosystem, Goodlife

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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)

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Glaston Group
Jinglass

Keraglass

Luoyang Fuchong Machinery
Mappi International
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Mazzaroppi Engineering

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ACCESSORIES

Ayrox
Deltamax Automazione
Glass Company
Glasstech Inc.
Glaston Group

Pujol Group

Itech
Keraglass
Mappi International
Satinal
Softeco
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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 WINDSCREEN BENDING FURNACES

ECOL
Glass Company
Glasstech Inc.
Glaston Group

Keraglass

Mappi International
Marposs
Taifin

Texpack

AUTOCLAVES

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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

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Teknik Elmas
Torgauer Maschinenbau

EVA (ETHYLENE VINYL ACETATE)

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Si.Ste Trading
Tecnosens

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

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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
Neptun
Schiatti Angelo
Schraml
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
Neptun
Schiavo
Schiatti Angelo
Schraml
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
Lovati
Neptun
Schiavo
Schiatti Angelo
Schraml
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
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Diamut - Biesse
Fenzi
Glaston Group
Mole Moreschi
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Tesir Makine
Vetrolux

ACCESSORIES

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Neptun
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Si.Ste Trading
Teknik Elmas

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

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Cugher Glass
Easy Automation
Horn
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IOCCO Group
Marposs

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Cugher Glass
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Torgauer Maschinenbau

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Glaston Group

Hegla
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Glass Company
Rollmac division of GeMaTa

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Schraml
SKG - Skill Glass

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Tecglass
TecnoFerrari

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COMSS
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Deltamax Automazione
ECOL
Eurotech Way
Glass Company

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North Glass Technology
Rollmac division of GeMaTa
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Studio 1 Automazioni
TecnoFerrari

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COMSS

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Studio 1 Automazioni

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Marposs
Softeco
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AUTOMOTIVE GLASS QUALITY CONTROL

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INSTRUMENT

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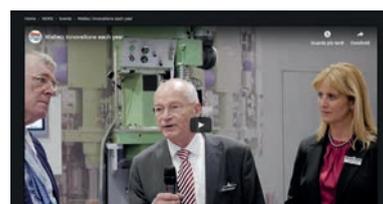
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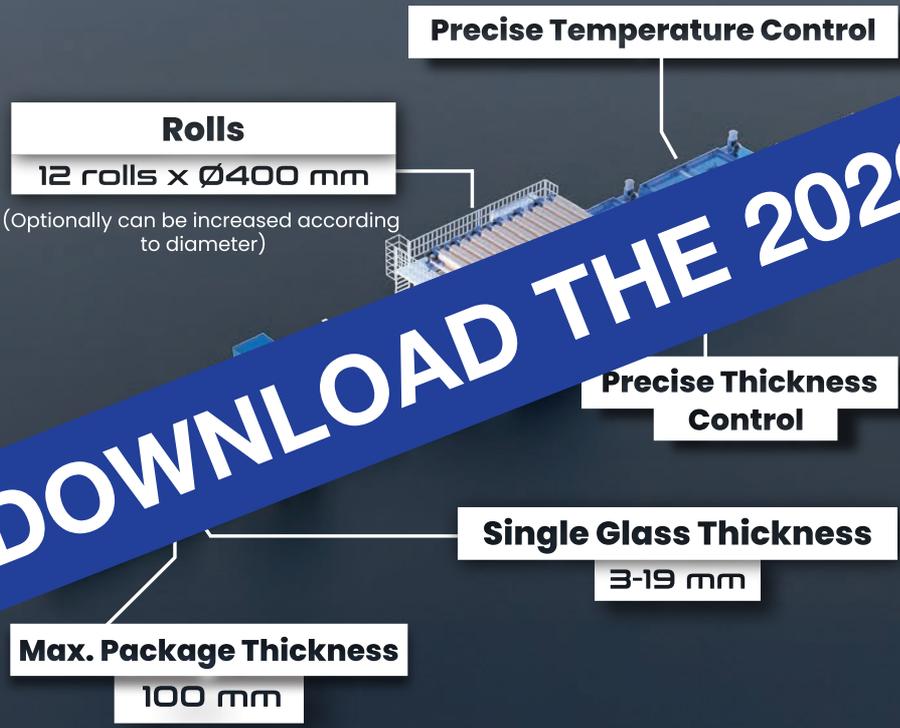
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