



Biesse
Machinery

Product Portfolio

Product Portfolio



Founded in Italy in 1969
International natives

We are an international company that manufactures lines, machinery and components for making products, enhancing the potential of a wide range of materials.

Thanks to our rooted competence nurtured by an ever-growing worldwide network, we support your business evolution - empowering your imagination.

Master of materials

We simplify your
manufacturing process
to make the potential
of any material shine

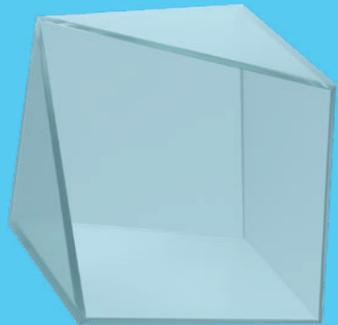
Entra nel
mondo Biesse.

[biesse.com](https://www.biesse.com)



Glass

We manufacture glass processing machines for the furniture, construction and automotive industries.



Discover
all our machines
for glass



biesse.com

Intermac

Machines

Forvet

Extended Machines

Identify in a few words the most suitable machine for your needs from our product portfolio.

Machining type

Cut Cutting

Edge Edging

Drill Drilling

Multi Multi-machining

Segment

Pro Distinctiveness and performance

Up Agility and expertise

Go Simplicity and compactness

Intermac

Intermac is a pioneer in the world of glass processing.

It is a comprehensive range of stand-alone machines, designed to work in perfect synergy with the operator, where human skill and experience is combined and enhanced, thanks to the coordinated and efficient management of each machining phase.

Intuitiveness, simplicity and flexibility are the foundations upon which the entire process is built.



Forvet

Forvet is a leader in the world of automatic machines for glass processing.

These machines feature integrated automation, designed to offer a high level of autonomy during processing whilst minimising operator intervention.



Machining Types

A machining operation
for every requirement

The machining types represent
the different kinds of machining
operation, and define the
specific end purpose or
application of an operation.

Cut

Cutting

Range of cutting tables
and water jet solutions for
cutting float and laminated
glass

Edge

Edging

Range of solutions for
grinding and polishing
glass.

Drill

Drilling

Range of solutions for
boring, countersinking and
milling glass.

Multi

Multi-machining

Range of machining centres for carrying out different
types of boring, grinding, polishing, scoring and
countersink operations on glass.

Segment

Your needs,
our skill

Your daily challenges feed our experience, as they enable us to get to know your requirements, your production dynamics and your spaces.

In order to respond to your needs, we have designed a portfolio of products to guide you in the most appropriate choice.



Distinctiveness and performance

Pro represents excellence in terms of performance, designed for customers who wish to distinguish themselves with the latest-generation solutions that they choose.



Agility and competence

The perfect choice for managing custom production requirements. The Up solutions combine advanced flexibility and functionality, guaranteeing efficient responses to constantly-evolving production challenges.



Simplicity and compactness

The Go solutions are designed for those looking for compact, easy-to-install machines that are simple to use. Ideal for those looking for a practical, immediate approach.

Cutting

Range of cutting tables and water jet solutions for cutting float and laminated glass.



Discover
all our cutting
machines



biesse.com

Monolithic

Product Brand	Model	Segment
Intermac	Intermac Cut Up M O	Up
	Intermac Cut Up M B	Up
	Intermac Cut Go M B	Go
	Intermac Cut Go M T	Go
	Intermac Cut Go M O	Go

Laminated

Product Brand	Model	Segment
Intermac	Intermac Cut Pro L B	Pro
	Intermac Cut Up L B	Up
	Intermac Cut Go L O	Go

Waterjet

Product Brand	Model	Segment
	Intermac Cut Up J	Up

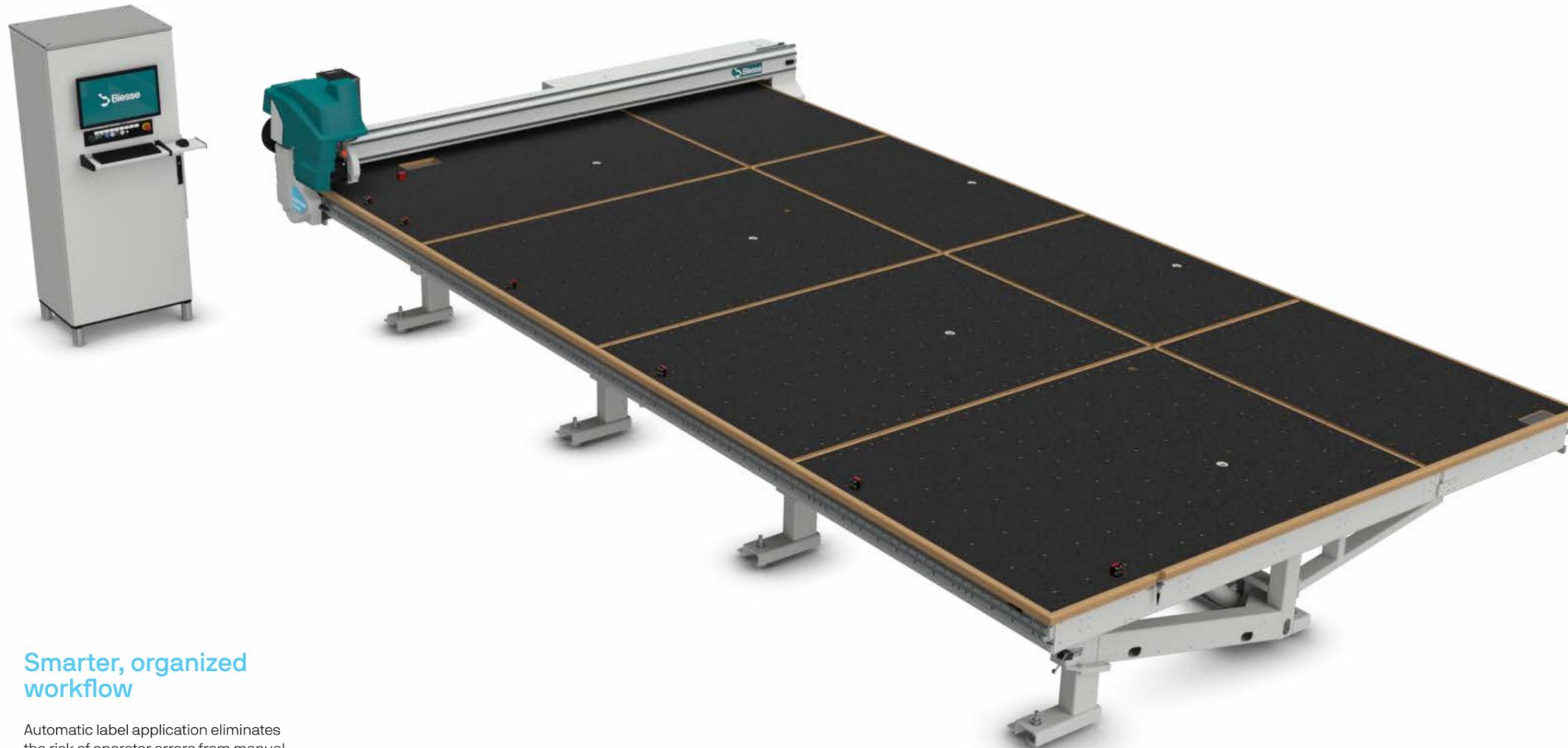
Combi

Product Brand	Model	Segment
Intermac	Intermac Cut Pro C	Pro
	Intermac Cut Up C	Up

Monolithic

Intermac

Intermac Cut Up M O



Smarter, organized workflow

Automatic label application eliminates the risk of operator errors from manual labeling, enabling accurate piece tracking and program recall for the next machines in the production flow.

The right tool for the best quality

The tool changer automatically uses the right cutting wheel and parameters for different glass types, enabling continuous cutting of straight and curved shapes across various thicknesses without manual intervention.

Coating Cleared, Scoring Ready

The tangential wheel with integrated dust collection system allows a fast coating removal on straight and shaped geometries for a perfect scoring operation.

Fast and reliable

Flexible, high-volume production is ensured by unmatched speed and precision, thanks to smart design solutions such as a robust frame and a precise, reliable movement system.

One & multi

One machine, multiple processes. With the capability to process various types of glass and ceramic slabs, the machine unlocks a wide range of applications, making it the perfect all-in-one solution.

Safe by design

Intermac Cut Up M O includes preventive safety features with a dedicated safety zone protected by photocells, safeguarding operators from collisions while allowing unobstructed access to the machine.

Computer vision

Thanks to the optical reader, the machine automatically performs a squaring cycle, adjusting the programmed toolpath to the actual glass position, or detect the shape of a physical template with 3 different strategies.

Flex your cuts

Designed for monolithic, low-E glass, and specialized applications, the Intermac Cut Up M O offers exceptional flexibility and configurability to create a machine that meets unique customer requirements.

With advanced features like TCR coating removal, a tool changer, and labeling functionality, it's perfectly suited for both flexible, custom production and high-efficiency series production.

Guaranteed response: Remote Assistance you can rely on

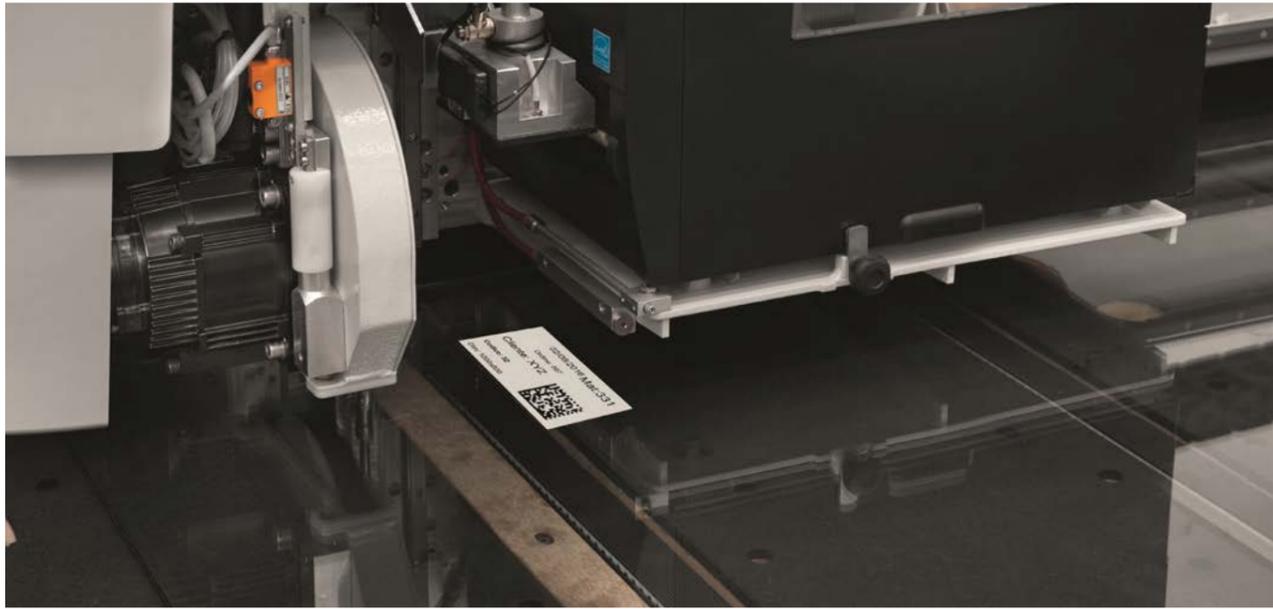
Remote assistance packages ensure fast technical response times and seamless. Machine Connectivity services to keep your operations running smoothly.



Human machine interface

A revolutionary interface enhances the user experience of Biesse machines, streamlining production processes like never before. This innovative system achieves its goal through improved usability, clear communication, and intuitive guidance, empowering operators to work more efficiently and with greater confidence.

Up



Smarter, organized workflow

Manual tracking of cut glass through the production line is now a thing of the past. Intermac Cut Up M 0 can automatically apply labels before scoring to identify each cut part, eliminating the risk of operator errors associated with manual labeling. These customizable labels can include

information such as part size, shape, and even barcodes, which allow machines in subsequent production stages to automatically load the correct program. The automatic labeling system can also be used alongside the TCR unit, a combination typically reserved for high-end machines.



Coating Cleared, Scoring Ready

The machine is equipped with a tangential wheel for Low-E coating removal, mounted on a rotating axis to handle both straight and shaped paths. A high-efficiency dust collection system and optimized hood positioning enable fast, thorough coating removal, even on EasyPro or TPF

glass, where finer dust and higher material volumes can be challenging to manage. This setup delivers a perfectly clean result without manual intervention, leaving the glass ready for scoring.



The right tool for the best quality

Equipped with a 6-position tool changer, the machine allows the processing of various glass types with the appropriate cutting wheel, automatically recalling the proper cutting parameters for each material. This enables conti-

nuous cutting of straight and curved shapes across different glass thicknesses, eliminating the need for manual intervention and ensuring seamless operation.



One & multi

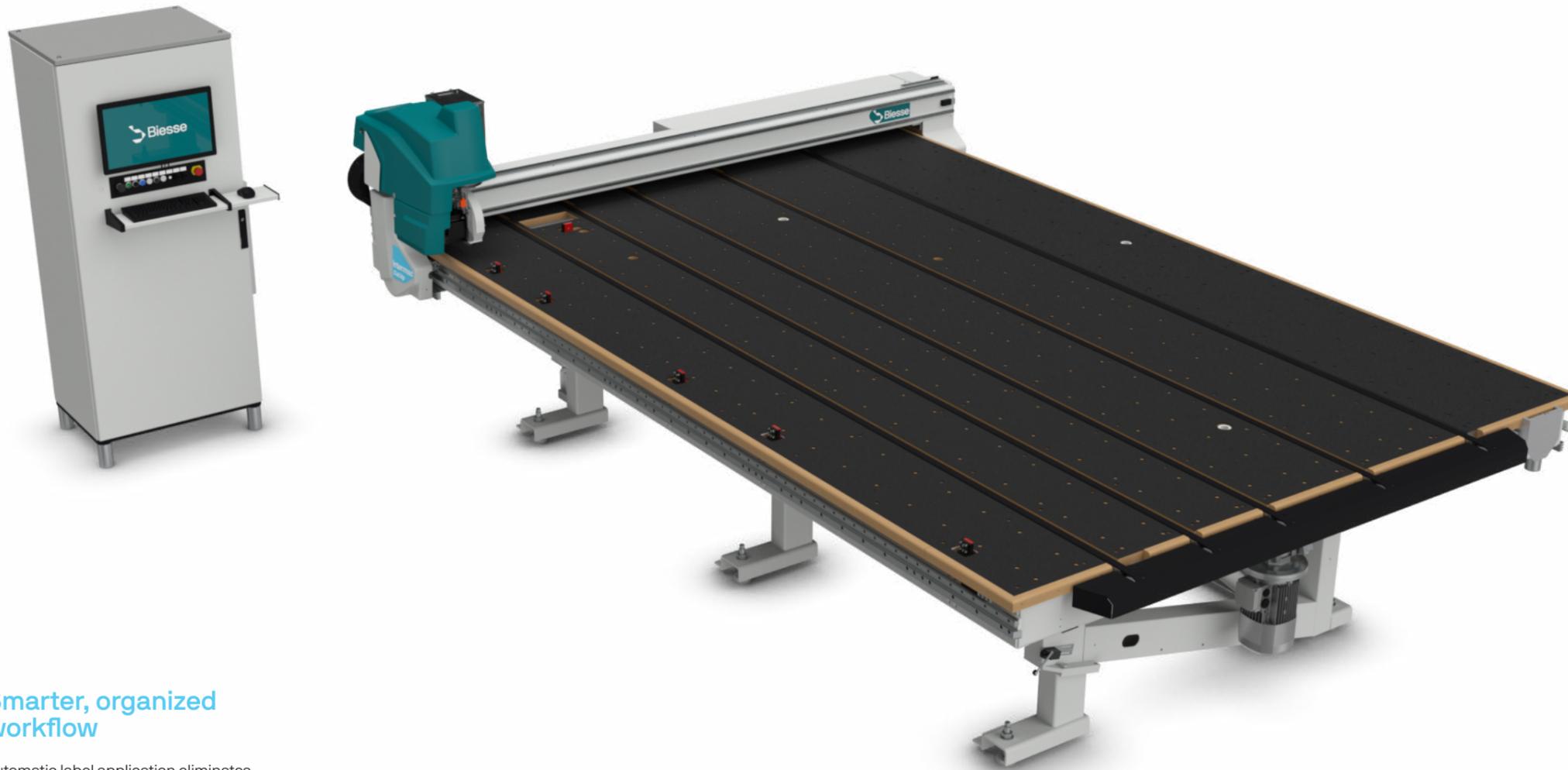
The Intermac Cut Up M 0 provides extensive processing capabilities, including various types of glass like low-e, laminated glass, vinyl scoring and ceramic slabs. This versatility is enhanced by specialized features, unlocking

a wide range of applications and making it an all-in-one solution for diverse manufacturing needs.

Monolithic

Intermac

Intermac Cut Up M B



Cut your limits

Intermac Cut Up M B is a versatile and efficient cutting table designed to streamline glass processing with advanced automation features.

Equipped with an automatic tool changer, robust frame, and transport belt system, it ensures fast, precise cutting and smooth glass handling with minimal manual input. Its intuitive design reduces the learning curve, while automatic labeling and Low-E coating removal boost processing capability, providing clean, ready-to-process glass in complete safety.

Guaranteed response: Remote Assistance you can rely on

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Human machine interface

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Smarter, organized workflow

Automatic label application eliminates the risk of operator errors from manual labeling, enabling accurate piece tracking and program recall for the next machines in the production flow.

Clean and fast coat removal

The tangential wheel with integrated dust collection system allows a clean, fast coating removal on straight and shaped geometries for a perfect scoring operation.

Fast and steady production

Unmatched speed and precision, together with an automatic transport system, deliver flexible, high-volume production and maintain a steady, efficient production flow.

Tool and shape

The tool changer automatically uses the right cutting wheel and parameters for different glass types, enabling continuous cutting of straight and curved shapes across various thicknesses without manual intervention.

Flexibility made simple

Intermac Cut Up M B simplifies programming even for the most complex geometries, offering the versatility needed to adapt to any market request.

Precise cutting

Automatic cutting wheel pressure control via a digital proportional valve enhances precision and ensures superior quality.

Safety first

Preventive safety features on the Intermac Cut Up M B include a photocell-protected safety zone, safeguarding operators from collisions while providing seamless access to the machine.

Up



Smarter, organized workflow

Manual tracking of cut glass through the production line is now a thing of the past. Intermac Cut Up M B can automatically apply labels before scoring to identify each cut part, eliminating the risk of operator errors associated with manual labeling. These customizable labels can include information such as part size, shape, and even barcodes, which allow machines in subsequent production stages to automatically load the correct program. The automatic labeling system can also be used alongside the TCR unit, a combination typically reserved for high-end machines.



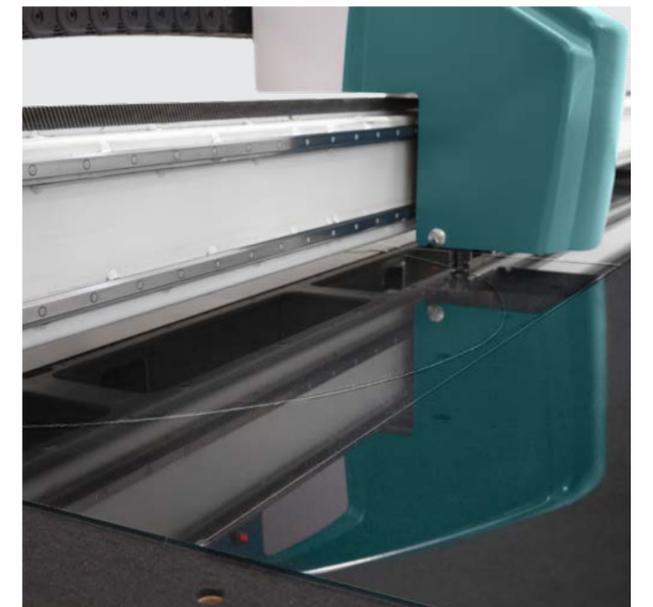
Clean and fast coat removal

The machine is equipped with a tangential wheel for Low-E coating removal, mounted on a rotating axis to handle both straight and shaped paths. A high-efficiency dust collection system and optimized hood positioning enable fast, thorough coating removal, even on EasyPro or TPF glass, where finer dust and higher material volumes can be challenging to manage. This setup delivers a perfectly clean result without manual intervention, leaving the glass ready for scoring.



Tool and shape

Equipped with a 6-position tool changer, the machine allows the processing of various glass types with the appropriate cutting wheel, automatically recalling the proper cutting parameters for each material. This enables continuous cutting of straight and curved shapes across different glass thicknesses, eliminating the need for manual intervention and ensuring seamless operation.



Precise cutting

With precise control from a digital proportional valve, the cutting head automatically adjusts the pressure for superior cut quality. Pre-loaded parameter recipes, linked to each cutting wheel, can be adjusted on the fly with the push of a button, allowing the pressure to adapt seamlessly to different glass types for easier break-out.

Monolithic

Intermac

Intermac Cut Go M B



Plug and cut

Intermac Cut Go M B is the new all automatic cutting table that can load, process and offload glass sheets without any manual intervention of the operator.

The machine has been designed with all the automations and sensors in order to be easily integrated in a new or existing line with minimum effort. The ERP integration allows to connect to the available factory ecosystem and generate extensive production report.

Guaranteed response: Remote Assistance you can rely on

Remote assistance packages ensure fast technical response times and seamless. Machine Connectivity services to keep your operations running smoothly.



Human machine interface

A revolutionary interface enhances the user experience of Biesse machines, streamlining production processes like never before. This innovative system achieves its goal through improved usability, clear communication, and intuitive guidance, empowering operators to work more efficiently and with greater confidence.

Flexible processing

The 6 positions tool changer automatically allows to use the right cutting wheel and parameters for different glass types, enabling continuous cutting of straight and curved shapes across various thicknesses without manual intervention.

Total protection

A metal fence enclosure, photocell-guarded safety gates, and microswitch-controlled access doors are just a few of the safety measures implemented to prevent operator access to moving parts, ensuring safety at all times.

Best in class

Built with top quality components and extreme dynamics, Intermac Cut Go M B gathers the quality and performances of high end machines with the price of entry level ones, making it the perfect investment for any budget.

You want it? You got it!

An 'off-the-shelf' solution, ready for quick delivery and installation, making it the ideal replacement for outdated and inefficient machines.

Easy-peasy

Engineered for ease of use, this machine shortens the learning curve, allowing operators to get up to speed quickly and efficiently.

Monolithic

Intermac

Intermac Cut Go M T



Quick coat removal

The tangential wheel with integrated dust collection system allows a fast coating removal on straight and shaped geometries for a perfect scoring operation.

Flexible processing

The 6 positions tool changer automatically allows to use the right cutting wheel and parameters for different glass types, enabling continuous cutting of straight and curved shapes across various thicknesses without manual intervention.

Total protection

A metal fence enclosure, photocell-guarded safety gates, and microswitch-controlled access doors are just a few of the safety measures implemented to prevent operator access to moving parts, ensuring safety at all times.

Best in class

Built with top quality components and extreme dynamics, Intermac Cut Go M T gathers the quality and performances of high end machines with the price of entry level ones, making it the perfect investment for any budget.

You want it? You got it!

An 'off-the-shelf' solution, ready for quick delivery and installation, making it the ideal replacement for outdated and inefficient machines.

Easy-peasy

Engineered for ease of use, this machine shortens the learning curve, allowing operators to get up to speed quickly and efficiently.

Consistent Cut

Automatic cutting wheel pressure control through a digital proportional valve improves precision and quality.

Plug and cut

Intermac Cut Go M T is the new all automatic cutting table that can load, process and offload monolithic and low-E glass sheets without any manual intervention of the operator.

The machine has been designed with all the automations and sensors in order to be easily integrated in a new or existing line with minimum effort.

The ERP integration allows to connect to the available factory ecosystem and generate extensive production report.

Guaranteed response: Remote Assistance you can rely on

Remote assistance packages ensure fast technical response times and seamless. Machine Connectivity services to keep your operations running smoothly.



Human machine interface

A revolutionary interface enhances the user experience of Biesse machines, streamlining production processes like never before. This innovative system achieves its goal through improved usability, clear communication, and intuitive guidance, empowering operators to work more efficiently and with greater confidence.

Monolithic

Intermac

Intermac Cut Go M O



A cut above

A versatile, compact cutting solution designed for accuracy and efficiency.

Capable to process several kind of materials and engineered with high-end components for precision and durability, the machine ensures seamless adaptation to diverse production needs, making it the ideal all-in-one solution for modern manufacturing.

Guaranteed response: Remote Assistance you can rely on

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Human machine interface

A revolutionary interface enhances the user experience of Biesse machines, streamlining production processes like never before. This innovative system achieves its goal through improved usability, clear communication, and intuitive guidance, empowering operators to work more efficiently and with greater confidence.

Extremely compact

With its compact footprint the machine requires minimal space and low vertical clearance, making it ideal for narrow spaces and low-ceiling environments.

The right tool for the best quality

The tool changer automatically uses the right cutting wheel and parameters for different glass types, enabling continuous cutting of straight and curved shapes across various thicknesses without manual intervention.

Fast and reliable

Unprecedented speed and precision come from a robust frame engineered for optimal performance.

Safe by design

Intermac Cut Go M O includes preventive safety features with a dedicated safety zone protected by photocells, safeguarding operators from collisions while allowing unobstructed access to the machine.

One machine, multiple processes

With the capability to process various types of glass and ceramic slabs, the machine unlocks a wide range of applications, making it the perfect all-in-one solution.

Computer vision

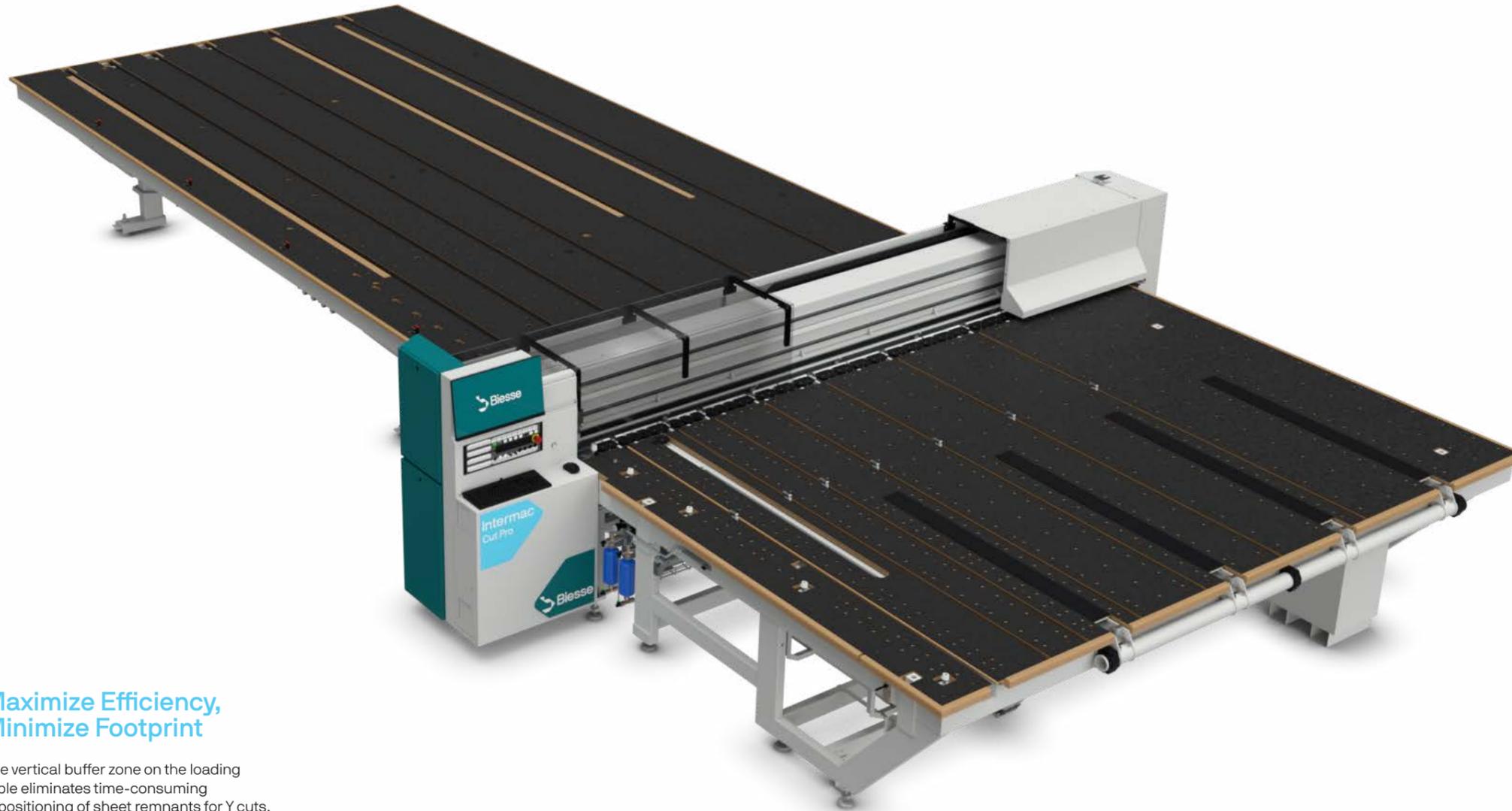
Thanks to the optical reader, the machine automatically performs a squaring cycle, adjusting the programmed toolpath to the actual glass position, or detect the shape of a physical template with 3 different strategies.

Consistent Cut

Automatic cutting wheel pressure control through a digital proportional valve improves precision and quality.

Intermac

Intermac Cut Pro L B



Perfectly cut any layer

Intermac Cut Pro L B is a high-performance, automatic cutting system designed for large laminated glass processing, efficiently handling scoring, breaking, separation, PVB heating, and cutting with full automation.

Its integrated transport system, buffer zone, and strip rotation capabilities ensure rapid processing and consistent output, regardless of job complexity or operator skill.

Guaranteed response: Remote Assistance you can rely on

Remote assistance packages ensure fast technical response times and seamless. Machine Connectivity services to keep your operations running smoothly.



Human machine interface

A revolutionary interface enhances the user experience of Biesse machines, streamlining production processes like never before. This innovative system achieves its goal through improved usability, clear communication, and intuitive guidance, empowering operators to work more efficiently and with greater confidence.

Maximize Efficiency, Minimize Footprint

The vertical buffer zone on the loading table eliminates time-consuming repositioning of sheet remnants for Y cuts, especially on larger sheets, significantly boosting productivity.

Get in shape!

With the ability to execute curvilinear and inclined cuts, the machine excels in manufacturing shaped and out-of-square glass parts.

Glass Flows, Production Grows

Designed for efficiency, the automated transport and rotation system ensures rapid glass handling during every phase, maintaining a smooth production flow.

Two Pressures, One Perfect Outcome

By utilizing independent proportional valves for the upper and lower cutting heads, the machine delivers precise scoring control, guaranteeing perfect and uniform cutting quality.

Cutting time, cutting waste

With automatic 20mm trim cuts and the ability to process jumbo sheets, the optimized cutting layout significantly improves yield and reduces material waste.

Effortless Low-E Glass Processing

The machine features a tangential wheel unit for edge deletion, automating low-E glass processing and ensuring the glass is fully prepared for the next steps in production.

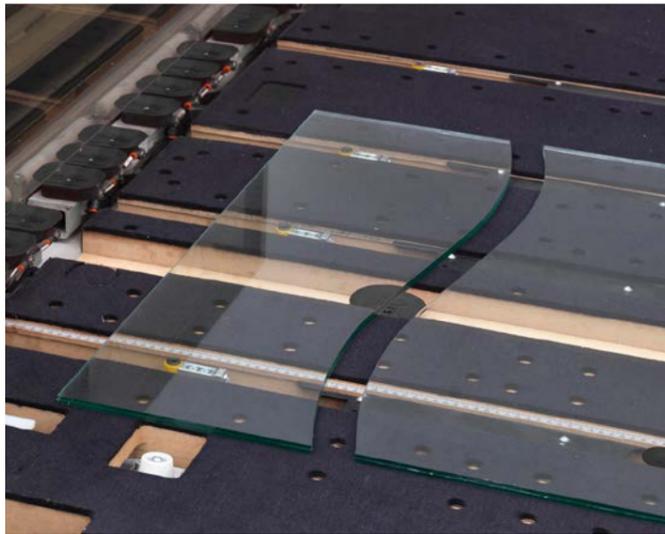
No glass is too thick

Thanks to its rigid structural design, the machine can process laminated glass up to 1212.4, performing all scoring, breaking, and separation operations with ease.



Maximize Efficiency, Minimize Footprint

After each X cut, sheet remnants traditionally need repositioning to allow Y cuts, a process that is both time-consuming and cumbersome, particularly with large sheets. Intermac Cut Pro L B's innovative vertical buffer raises remnants for immediate Y cuts, then lowers them back for the next X cuts, eliminating delays and enhancing productivity. This intelligent solution not only increases productivity but also minimizes the machine's overall footprint for a more space-efficient design.



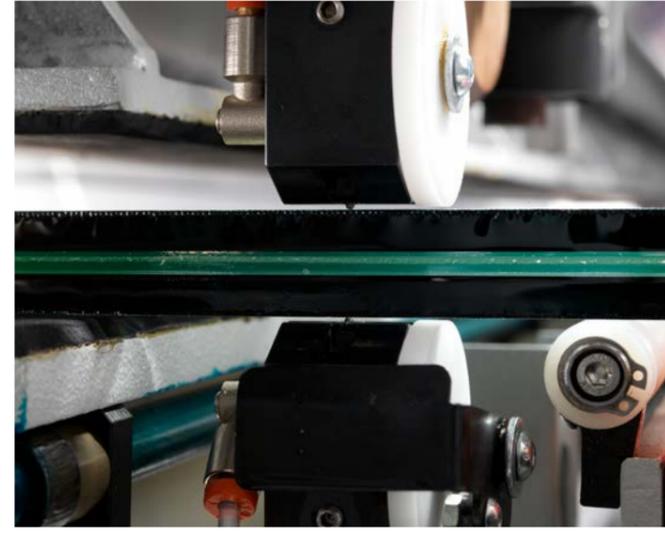
Get in shape!

Intermac Cut Pro L B delivers advanced precision in cutting and breaking curvilinear shapes through the seamless interpolation of vacuum cups and the cutting head. Its specialized suction cup with a rotational encoder ensures accurate inclined cuts, facilitating the assisted processing of parallelogram and trapezoid glass parts.



Glass Flows, Production Grows

Featuring a robust transport belt system and air cushion support, the machine automatically handles sheet positioning and remnant movement effortlessly, even for oversized glass sheets. The smart interpolating suction cup mechanism rotates strips for orthogonal cuts, allowing for smooth, fully automated production while removing the need for time-consuming manual adjustments like pushing remnants or rotating strips.



Two Pressures, One Perfect Outcome

Gravity affects the upper and lower cutting heads differently and applying equal pressure can cause scoring imbalances that affect cut quality. Intermac Cut Pro L B addresses this with dual independent proportional valves, ensuring precise scoring control and consistently superior cuts.

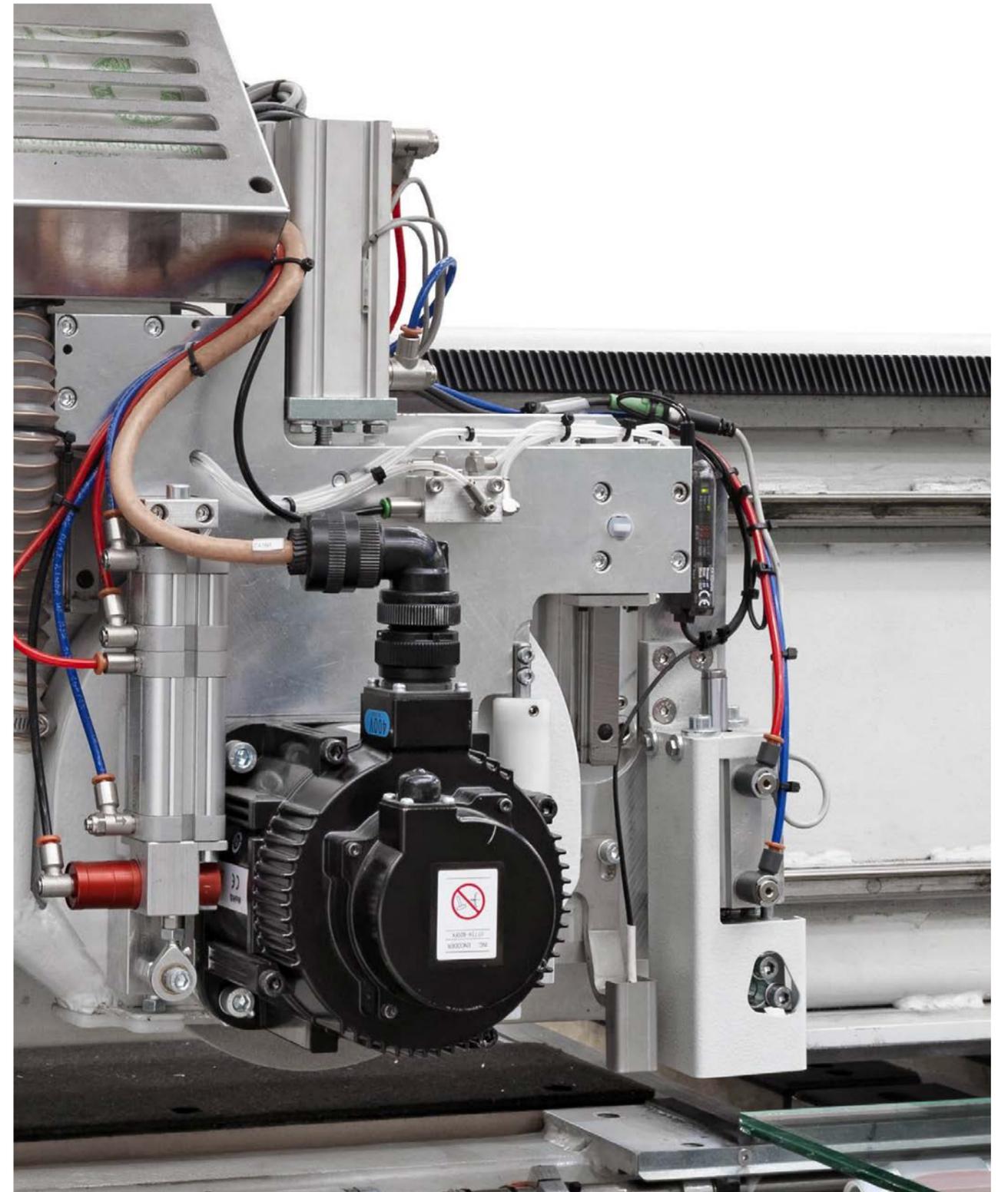


Cutting time, cutting waste

Manual trim cut opening demands valuable time and a skilled operator. Intermac Cut Pro L B automates the cutting, breaking, and opening of trim cuts as narrow as 20mm, streamlining production. The combination of smaller trim cuts and jumbo sheet processing boosts the cutting layout optimization, enhancing yield and reducing waste.

Laminated Glass

The machine's primary process starts with scoring using tungsten carbide wheels, followed by glass breakout with integrated breakout bars. Heating lamps then soften the PVB layer, allowing for automatic separation and precise PVB cutting to complete the process.



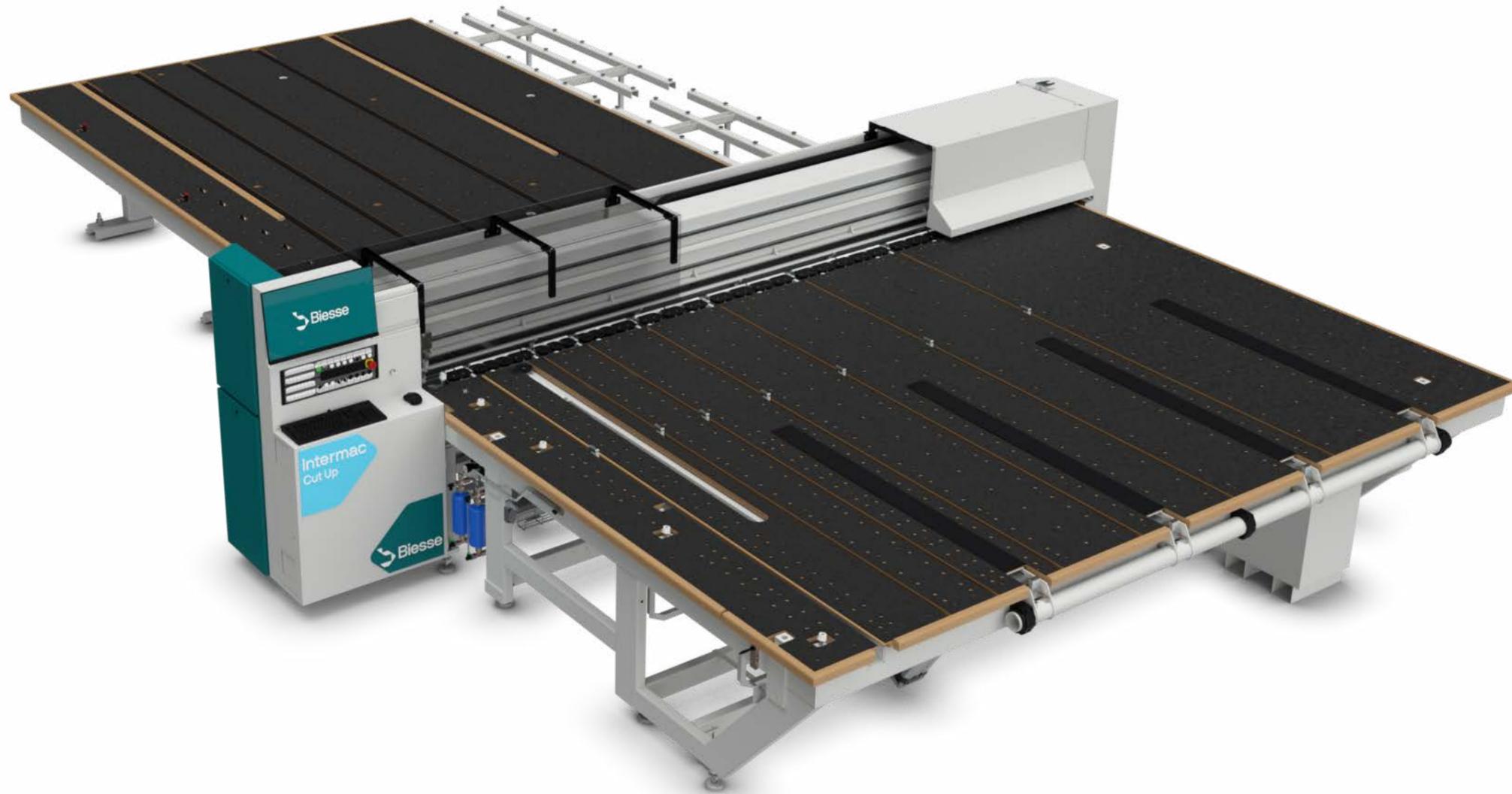
Low-e laminated glass

With the TCR unit, the coating layer is automatically removed before the scoring, breaking, and separation phases, enabling fast and efficient processing of low-E glass.

Laminated

Intermac

Intermac Cut Up L B



Multiple layers of automation

Intermac Cut Up L B is a versatile, automatic cutting system engineered for seamless laminated glass processing.

It efficiently handles all key operations like scoring, breaking, separation, PVB heating, and cutting, automatically. With its integrated transport system, buffer zone, and strip rotation capabilities, it ensures fast processing and consistent output, regardless of job complexity or operator expertise.

Guaranteed response: Remote Assistance you can rely on

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Human machine interface

A revolutionary interface enhances the user experience of Biesse machines, streamlining production processes like never before. This innovative system achieves its goal through improved usability, clear communication, and intuitive guidance, empowering operators to work more efficiently and with greater confidence.

Smart Buffering

The vertical buffer zone on the loading table eliminates the need for longer machine design and time-consuming repositioning of sheet remnants for subsequent Y cuts, granting a boost in production.

Effortlessly Cutting Complex Shapes

Capable of curvilinear and inclined cuts, the machine enables the production of shaped and out-of-square components.

Balanced pressure

The independent proportional valves on the upper and lower cutting heads provide accurate scoring control, ensuring perfect and uniform cutting quality throughout the operation.

Automated handling

The automatic transport and rotation system ensures rapid glass processing throughout all working stages, enabling a smooth and consistent workflow.

Effortless Low-E Glass Processing

Equipped with a tangential wheel unit for edge deletion, the machine automates low-E glass processing, delivering glass that's fully prepared for the next production stages.



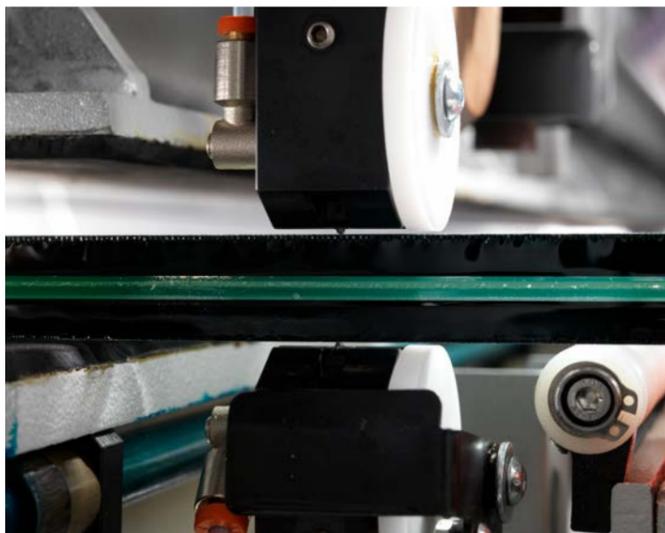
Smart Buffering

After each X cut, sheet remnants must be moved away from the cutting line to allow Y cuts on the strips, a time-consuming process, especially for large sheets. Intermac Cut Up L B introduces a clever vertical buffer solution that raises the remnants, enabling immediate Y cuts and dramatically reducing the overall dimension of the machine. Once completed, the buffer lowers the remnants back for subsequent X cuts, eliminating delays caused by repositioning and therefore increasing productivity.



Effortlessly Cutting Complex Shapes

Intermac Cut Up L B offers advanced capabilities for cutting and breaking curvilinear shapes through a sophisticated interpolation of the vacuum cups and cutting head. A dedicated suction cup with a rotational encoder allows for accurate assisted positioning of inclined cuts, enabling automatic cutting, breaking, and separation of parallelogram and trapezoid glass shapes.



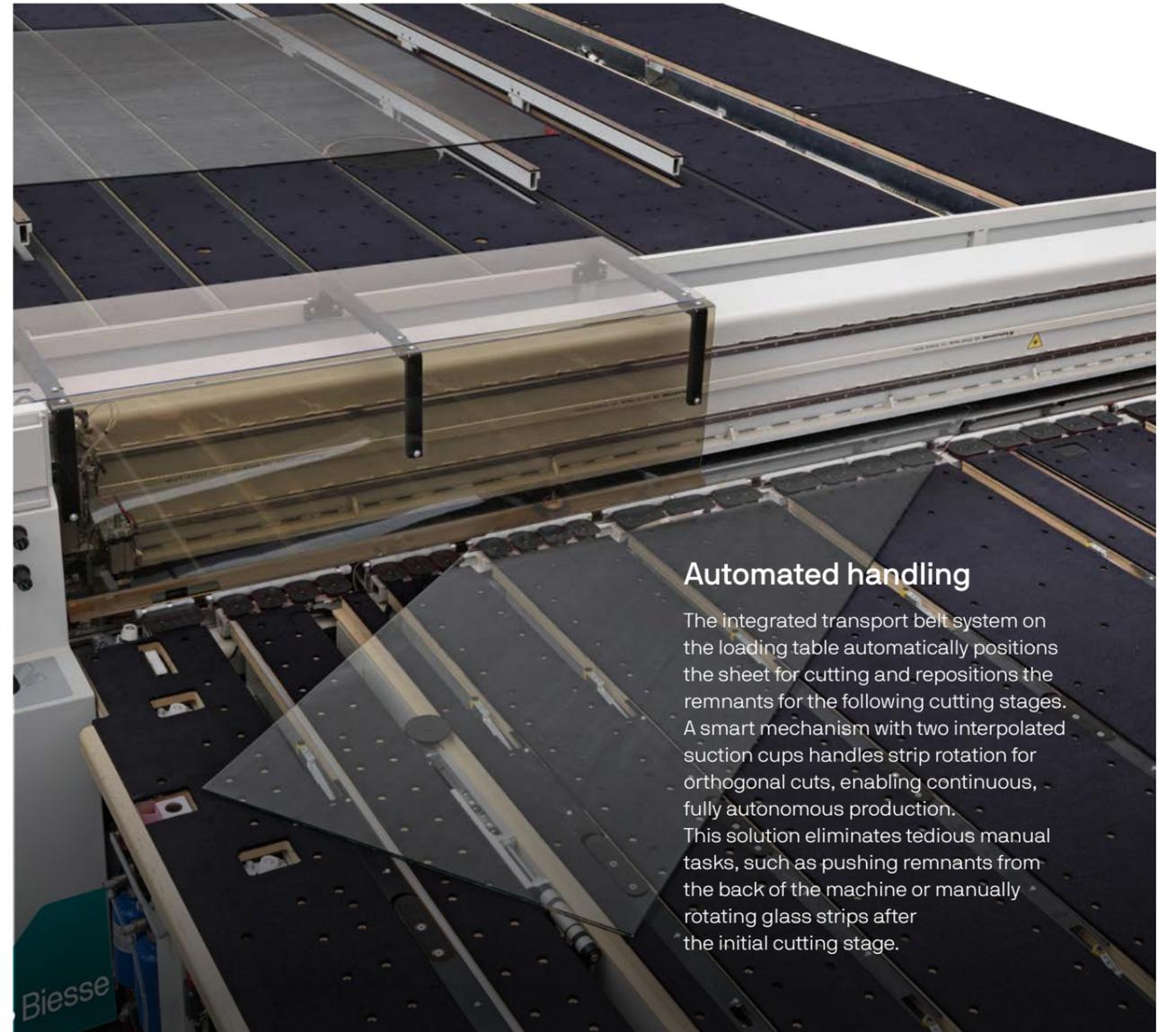
Balanced pressure

Since gravity affects the upper and lower cutting heads differently, using the same pressure can result in scoring imbalances that affect cut quality. Intermac Cut Up L B incorporates dual independent proportional valves for each cutting head, providing accurate control and ensuring consistent, top-quality cuts.



Effortless Low-E Glass Processing

A tangential wheel, mounted on the machine head and powered by an independent motor, ensures efficient Low-E coating removal, supported by a dedicated vacuum system. The integrated automatic grinding station maintains the wheel's planarity, guaranteeing flawless coating removal and perfectly clean glass, ready for the next operations in the production process.



Automated handling

The integrated transport belt system on the loading table automatically positions the sheet for cutting and repositions the remnants for the following cutting stages. A smart mechanism with two interpolated suction cups handles strip rotation for orthogonal cuts, enabling continuous, fully autonomous production. This solution eliminates tedious manual tasks, such as pushing remnants from the back of the machine or manually rotating glass strips after the initial cutting stage.

Up

Laminated

Intermac

Intermac Cut Go L 0



Laminated glass process made easy

Intermac Cut Go L 0 is a compact, user-friendly cutting table designed for efficient laminated glass processing.

It is capable to automatically perform all the main operations like scoring, breaking and separation, including PVB heating and cutting.

Equipped with advanced technological features and operator-assist devices found in top-tier machines, it's the ideal choice for getting the job done with ease and efficiency, without requiring a large investment.

Guaranteed response: Remote Assistance you can rely on

Remote assistance packages ensure fast technical response times and seamless. Machine Connectivity services to keep your operations running smoothly.



Human machine interface

A revolutionary interface enhances the user experience of Biesse machines, streamlining production processes like never before. This innovative system achieves its goal through improved usability, clear communication, and intuitive guidance, empowering operators to work more efficiently and with greater confidence.

Heavy duty cuts

Thanks to its rigid structural design, the machine can process laminated glass up to 1010.4, performing all scoring, breaking, and separation operations with ease.

Independent Pressure, Unmatched Cutting Precision

Independent pressure valves for the upper and lower cutting heads provide precise control over the scoring operation, ensuring perfect ensuring perfect and consistent cutting quality.

Slim Trim

Eliminate complex manual trimming operations, this machine automatically performs a minimum trim cut of 60mm, reducing the need for operator expertise and ensuring steady productivity.

Efficient Transport system for a Smooth Workflow

Assisted glass positioning between cuts is made easy with transport belts integrated into the machine frame, ensuring smooth and easier handling.

Space efficient design

With its compact footprint the machine requires minimal space and low vertical clearance, making it ideal for narrow spaces and low-ceiling environments.

Intermac

Intermac Cut Up J



Precision in every drop

Intermac Cut Up J is a versatile waterjet machine for glass and other materials processing, offering a simple and intuitive operation.

Its advanced engineering solutions minimize abrasive consumption and simplify table and tooling setup, making production faster and more cost-effective. Thanks to its 5-axis capabilities, it can easily process even the most intricate geometries, allowing for a more diverse range of production.

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Human machine interface

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5 axes, endless possibilities.

With its 5-axis head and limitless rotational capability, Intermac Cut Up J redefines production potential, enabling a diverse range of applications.

Controlled flow, controlled costs.

Equipped with a sophisticated abrasive management system, Intermac Cut Up J automatically regulates abrasive usage, achieving up to 20% savings* while maintaining flawless cutting performance.

*Test performed on 100 standard cooking planes production

No splash, just perfection.

The innovative anti-reflection table ensures precision cutting across the entire glass surface, eliminating the splashback effect and protecting the integrity of the workpiece.

Interact in safety

Intermac Cut Up J is equipped with preventive safety features, ensuring operator protection from collisions while maintaining easy, unobstructed access to the machine.

Small batches, big results, across all materials.

With the ability to process a wide range of materials and no tools to manage, Intermac Cut Up J offers unparalleled flexibility, enabling increased production possibilities and smaller batch sizes for highly diversified manufacturing.

Complex shapes, simple process.

The 1mm diameter "tool" of the waterjet technology allows Intermac Cut Up J to achieve precise internal square corners, complex geometries, and flawless inlays with exceptional accuracy.

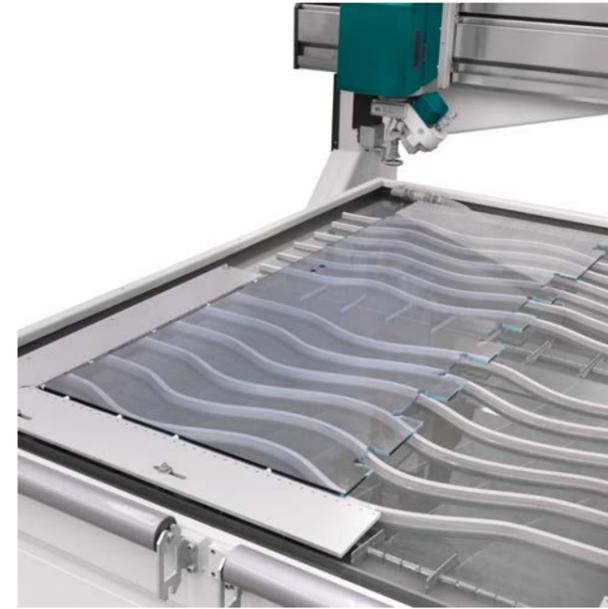
Ready to cut, no setup needed.

Intermac Cut Up J eliminates the need for suction cups and tool setup, making it the perfect choice for prototyping and small batch production while maintaining high productivity.

Controlled flow, controlled costs.

Designed for continuous operation, the Intermac Cut Up J's advanced abrasive management system combines a primary tank and an on-board mini hopper for uninterrupted abrasive supply. This innovative system precisely adjusts abrasive flow to suit the material and nozzle, efficiently differentiating the flow for piercing and cutting operations for a saving up to 20% on abrasive usage.

*Test performed on 100 standard cooking planes production



No splash, just perfection.

A replaceable, hollow-profiled rubber gasket securely holds the workpiece in place. Its innovative design captures the jet within the hollow profile, preventing splashback and protecting the processed part from damage. Easily replaceable when worn, the gasket ensures consistent performance and minimal downtime.

5 axes, endless possibilities.

Equipped with 5-axis infinite rotation technology, the machine unlocks new possibilities for diverse applications. The JPC (Jet Performance Control) system and advanced interpolation feature work together to enhance productivity and address taper and jet lag issues, ensuring higher-quality results. Additionally, the Feeler Ring system measures material thickness for precise head positioning, elevating machining accuracy.



Complex shapes, simple process.

Thanks to its 1mm diameter waterjet 'tool,' the Intermac Cut Up J can achieve geometries that are impossible with traditional CNC machines. Internal square corners and complex shapes are easily processed, enabling the production of intricate components and perfectly precise inlays. This advantage is further amplified by the fact that these features apply to any material without requiring manual operator intervention.



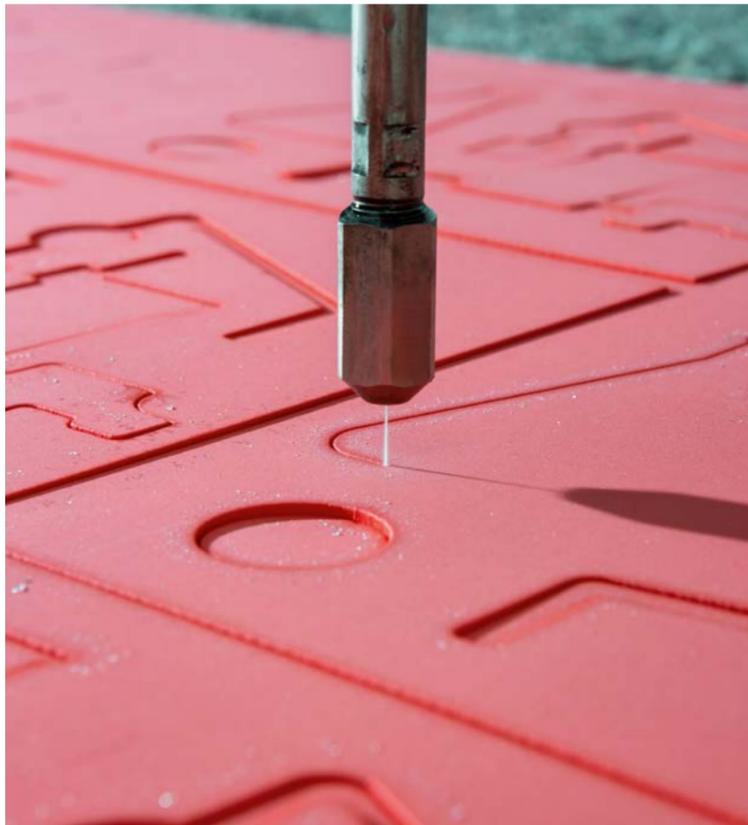
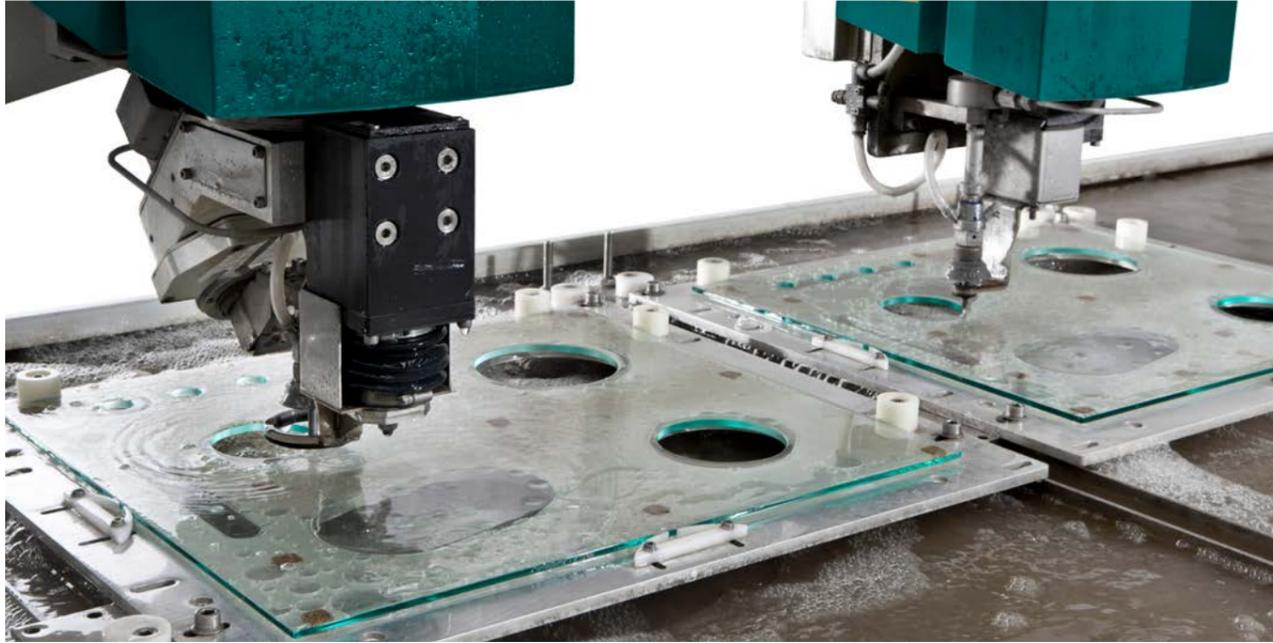
Small batches, big results, across all materials.

Leveraging the flexibility of waterjet cutting, the Intermac Cut Up J eliminates the need for tools and lengthy setups, making it perfect for single parts or small-batch production across different materials while ensuring high productivity. In heat-sensitive applications where milling isn't

an option, waterjet cutting provides consistent, reliable results. The machine cut quality is ready for tempering without the need for extra processing or additional machines, speeding up the production process.

Monolithic Glass

The machine is capable to easily cut monolithic glass with waterjet and abrasive mix. The finishing quality of the processed glass is suitable for tempering process without requiring additional reworking on other machines.



Other materials

The waterjet technology in this machine enables it to process a broad range of materials, including stone, ceramics, plastics, and metals, without the need for specialized tooling or setup, boosting production flexibility.



Up

Laminated and special glass

For specialized applications such as laminated, reinforced, and fire-resistant glass, where heat during the machining process can cause issues, Intermac Cut Up J is the perfect solution to achieve flawless finishes, regardless of the lamination type or glass treatment.

Intermac

Intermac Cut Pro C



Integrated production for every glass type

The combination of monolithic and laminated glass cutting machines in the Intermac Cut Pro C system ensures high productivity and automation on any glass size.

Monolithic glass is processed with the precision and speed of a dedicated cutting table, aided by the laminated glass machine for automatic X cuts breaking. Laminated glass automatic scoring, breaking, and separation, performed on a dedicated machine are further supported by the transport and buffer functionality of the monolithic glass machine.

Guaranteed response: Remote Assistance you can rely on

Remote assistance packages ensure fast technical response times and seamless. Machine Connectivity services to keep your operations running smoothly.



Human machine interface

A revolutionary interface enhances the user experience of Biesse machines, streamlining production processes like never before. This innovative system achieves its goal through improved usability, clear communication, and intuitive guidance, empowering operators to work more efficiently and with greater confidence.

The perfect combination

Two interconnected machines provide dedicated solutions for monolithic and laminated glass, ensuring seamless integration and optimized workflows.

Handling Every Glass, Maximizing Every Cut

The advanced integration of the two machines ensures automatic glass handling, with tailored solutions for both monolithic and laminated glass, enabling faster operations and increased production efficiency.

Shaped glass? We've got it covered

Tired of being limited to rectangular and square parts? Intermac Cut Pro C enables the creation of shaped and out-of-square parts, regardless of the material being processed.

Digital pressure for consistent precision

Each cutting head is equipped with an independent proportional valve to apply the optimal scoring force, particularly for laminated glass, ensuring a perfect result every time.

Track Every Cut

Automatic label application eliminates manual labeling errors, ensuring precise piece tracking and effortless program recall for the next stages in the production line.

Engineered for Every Thickness

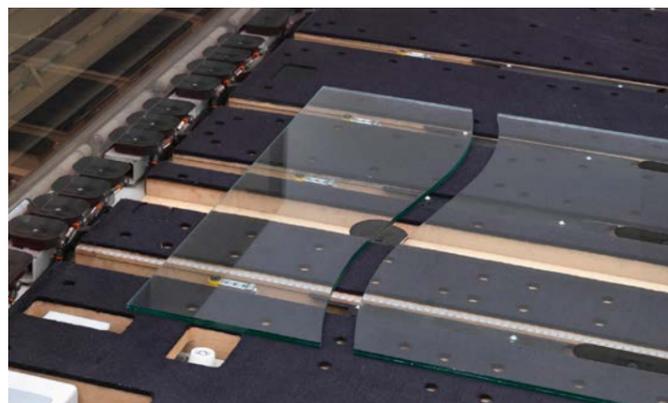
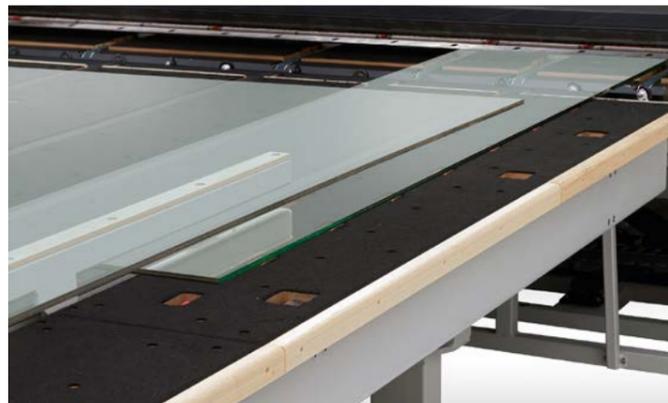
Thanks to its rigid structural design, the system can score monolithic glass up to 25mm and process laminated glass up to 1212.4, performing all scoring, breaking, and separation operations with ease.

Clean edges, perfect cuts

The system features tangential wheel units for efficient edge deletion, automating the low-E glass processing of both monolithic and laminated glass, delivering ready to process parts for the next production stages.

The perfect combination

The system combines a monolithic glass cutting table with a laminated glass processing center, offering optimized functionality for both materials. The monolithic glass machine ensures high productivity and precision, supported by the second machine for efficient breaking operations. The laminated glass processing center provides a specialized, high-production environment, with the first machine enabling automatic sheet movement for smooth workflow integration.

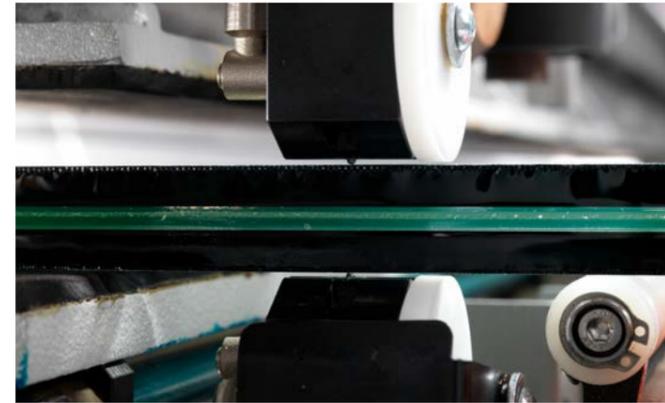


Handling Every Glass, Maximizing Every Cut

When cutting monolithic glass, the first machine provides flexibility and precision for quickly cutting straight or shaped geometries, while the laminated glass machine automates X cuts breaking and serves as a service table for manual Y cuts, improving workflow efficiency. When processing laminated glass, the monolithic table becomes a service station with advanced transport and buffer systems, enabling seamless automated production with automatic rotation and processing stages. The ability to handle large sheets optimizes material use and reduces waste.

Shaped glass? We've got it covered

While shaped and out-of-square parts are standard for monolithic glass cutting tables, processing laminated glass presents additional challenges. Intermac Cut Pro C overcomes this by enabling the cutting and breaking of curvilinear shapes through seamless interpolation between the vacuum cups and cutting head. A specialized suction cup with a rotational encoder ensures precise inclined cuts, allowing for the assisted processing of parallelogram and trapezoid glass parts.



Digital pressure for consistent precision

Automatic cutting wheel pressure control via a digital proportional valve enhances cutting precision and overall quality. Each cutting wheel is linked to a pre-loaded parameter recipe that can be quickly adjusted to suit different glass types for easier breakout. On laminated glass tables, where gravity impacts the upper and lower cutting heads differently, dual independent proportional valves ensure precise scoring control and consistently superior cuts.

Track Every Cut

Manual tracking of cut glass is a thing of the past with Intermac Cut Pro C. It automatically applies labels before scoring, ensuring precise identification of each cut part and eliminating operator errors. This feature works seamlessly on both monolithic and laminated glass applications. The customizable labels can include part size, shape, and barcodes, enabling automatic program loading for subsequent machines in the production line.

Engineered for Every Thickness

Engineered for precision and performance, the system can process monolithic glass from 3 to 25mm and automatically break the X cuts using the reinforced breakout bar of the laminated glass machine up to 10mm. Designed with linear guides and a torque shaft, the breakout bar ensures uniform pressure for reliable breaking, allowing for the processing of laminated glass from 22.1 to 1212.4, without the need for special equipment or skilled operators.

Clean edges, perfect cuts

Tangential wheel units with independent motors, installed on both monolithic and laminated glass cutting bridges, ensure efficient low-E coating removal for seamless scoring and breaking. The unit on the monolithic table handles edge deletion on both straight and shaped geometries, adding production flexibility. A high-efficiency dust collection system with optimized hood positioning ensures thorough coating removal, even on EasyPro or TPF glass, delivering perfectly clean results without manual intervention.

Monolithic, patterned, mirror

The first machine is dedicated to processing monolithic, patterned, and mirrored glass, capable of handling both straight and shaped geometries.

The second machine automatically performs the X-cut breaking operations for increased productivity.



Laminated Glass

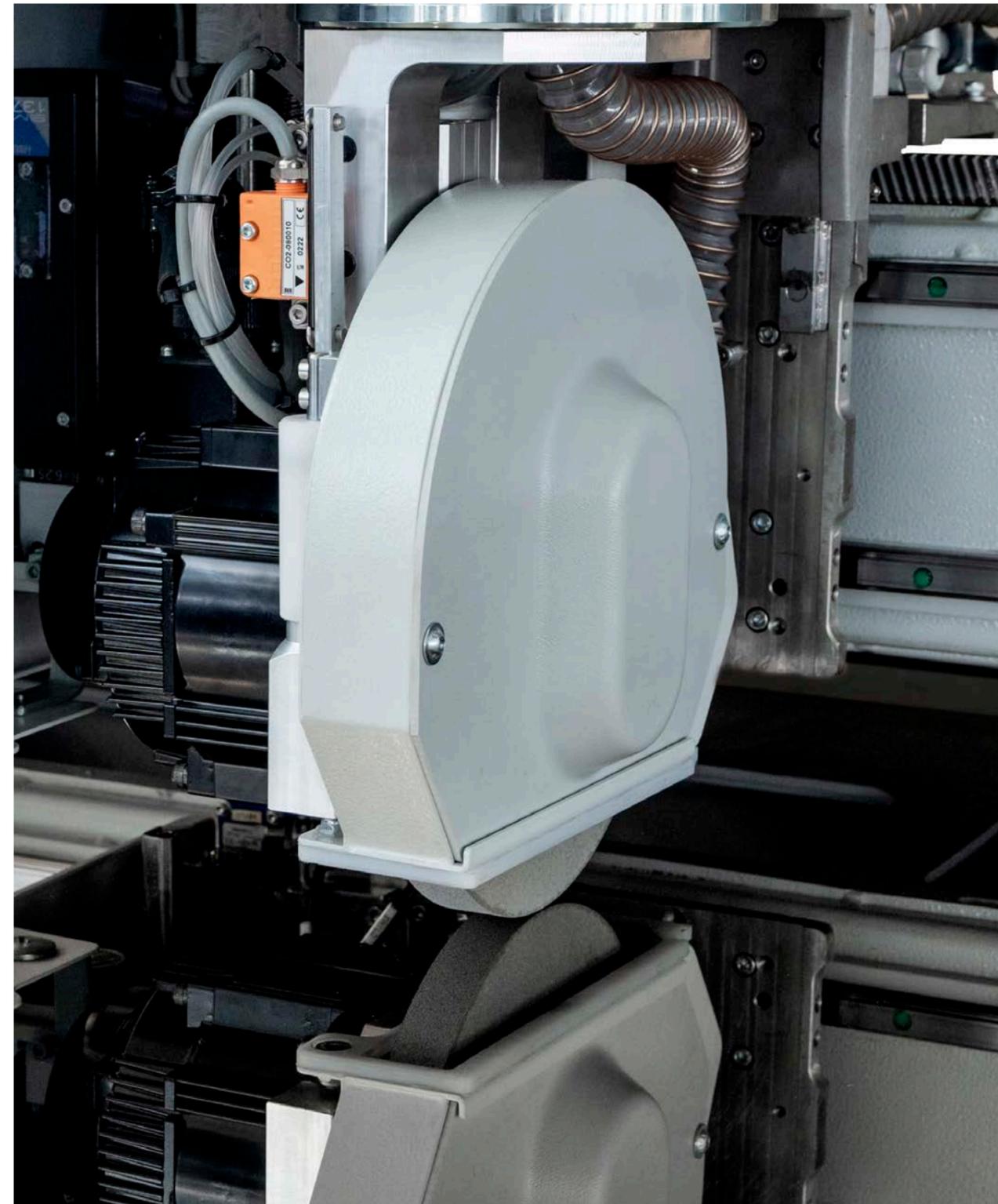
Laminated glass cutting, performed on the second machine, starts with scoring using tungsten carbide wheels, followed by glass breakout with integrated breakout bars. Heating lamps then soften the PVB layer, allowing for

automatic separation and precise PVB cutting to complete the process. The first machine facilitates the operations by acting as a service table for sheet handling and automation.



Low-e glass

With the TCR unit, the coating layer is automatically removed before the scoring, breaking, and separation phases, enabling fast and efficient processing of low-E glass.



Intermac

Intermac Cut Up C



Two Machines, One Workflow, Infinite Possibilities

The Intermac Cut Up C system combines monolithic and laminated glass cutting machines for high production flexibility and seamless integration.

Monolithic glass benefits from the precision and speed of a dedicated cutting table, with automatic X cuts breaking performed by the laminated glass machine. For laminated glass, scoring, breaking, and separation are fully automated on a dedicated machine, supported by the transport and buffer systems of the monolithic glass machine for a streamlined workflow.

Guaranteed response: Remote Assistance you can rely on

Remote assistance packages ensure fast technical response times and seamless. Machine Connectivity services to keep your operations running smoothly.



Human machine interface

A revolutionary interface enhances the user experience of Biesse machines, streamlining production processes like never before. This innovative system achieves its goal through improved usability, clear communication, and intuitive guidance, empowering operators to work more efficiently and with greater confidence.

Productivity and Flexibility in Perfect Harmony

By integrating two specialized machines, the system delivers tailored solutions for monolithic and laminated glass, streamlining workflows and ensuring seamless operation.

Space-saving design

With its compact footprint, the system requires minimal space, especially when compared to two independent solutions, making it ideal for installations in narrow spaces.

Controlled pressure for perfect cuts every time

Each cutting head features an independent proportional valve that adjusts the scoring force for optimal performance, particularly important when processing laminated glass, ensuring perfect results with every cut.

Labeling Made Easy

Automatic label application removes the risk of manual errors, ensuring accurate tracking of each piece and smooth program recall for the next steps in the production process.

No matter the thickness, always the perfect cut

Featuring a rigid structural design, the system easily scores monolithic glass up to 19mm and processes laminated glass up to 1010.4mm, executing scoring, breaking, and separation operations with efficiency.

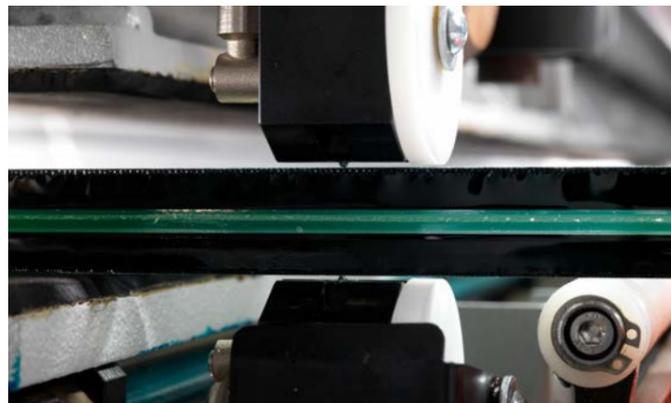


Productivity and Flexibility in Perfect Harmony

The system integrates a monolithic glass cutting table and a laminated glass processing center, delivering optimized functionality for both materials. The monolithic glass machine offers exceptional productivity and precision aided by the laminated glass processing center for efficient breaking. The laminated glass machine grants flexible production capabilities, supported by automatic sheet transport from the first machine for seamless workflow integration.

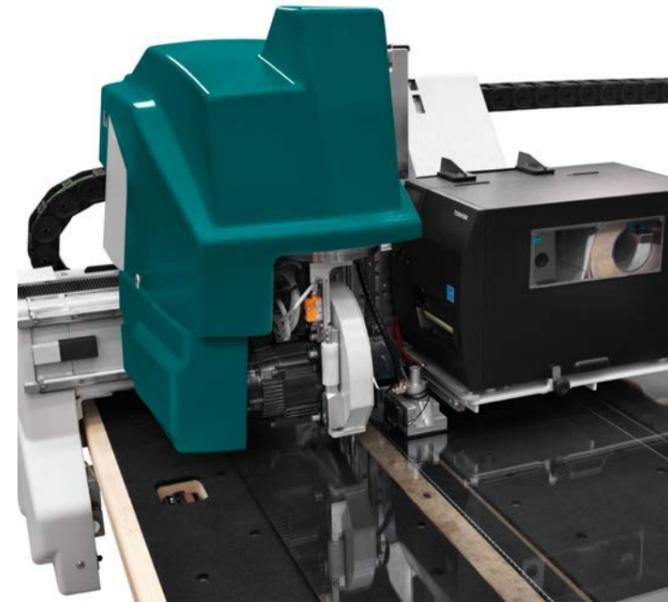
Space-saving design

Small size, minimal space required. The great advantage of a combi system is its compact footprint, especially when compared to two independent machines. The innovative glass buffer system further reduces the space needed, making it the ideal solution for any install location.



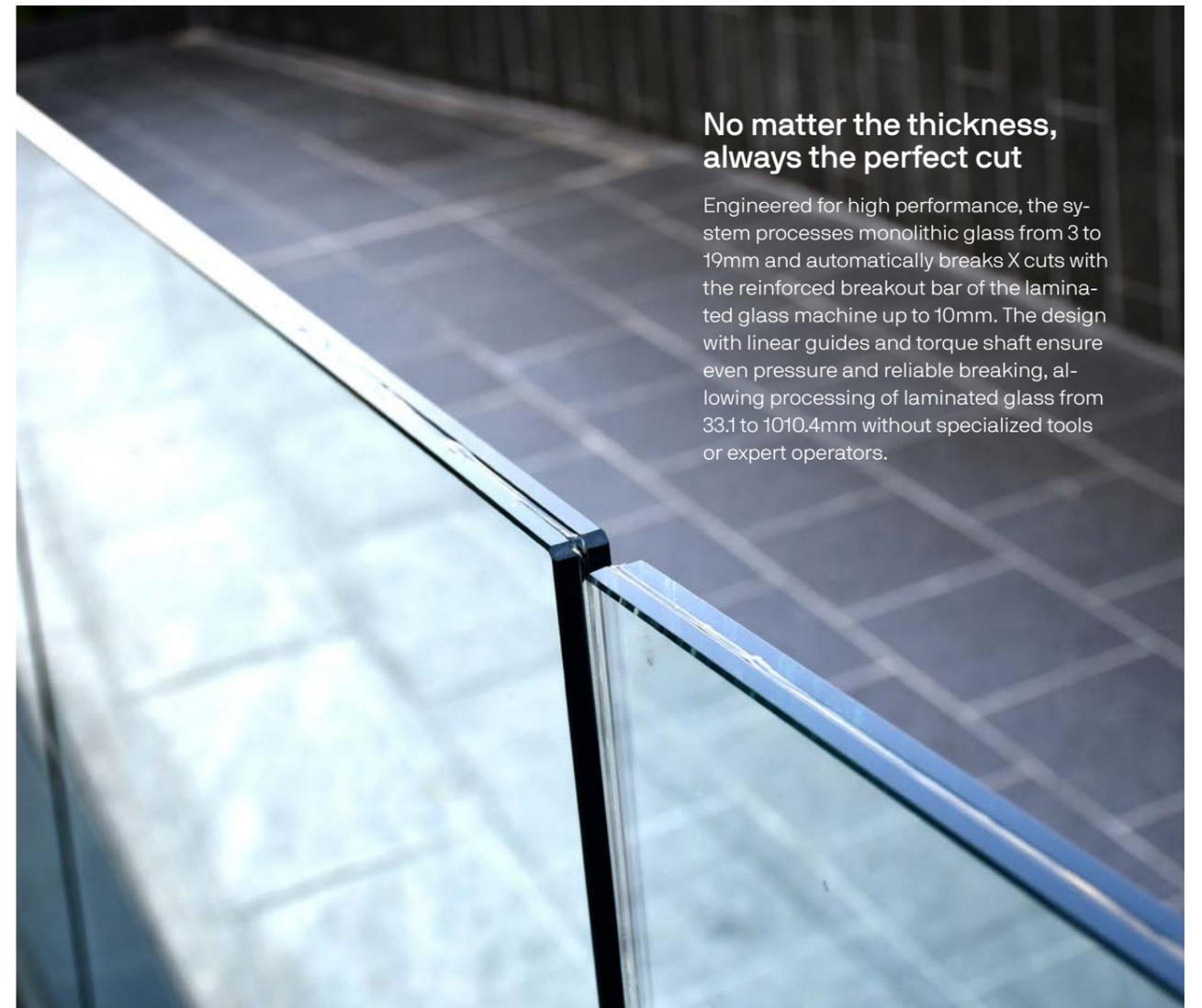
Controlled pressure for perfect cuts every time

With automatic cutting wheel pressure control through a digital proportional valve, the system improves cutting precision and quality. Pre-loaded parameter recipes for each cutting wheel can be swiftly adjusted to different glass types, simplifying breakout. For laminated glass, dual independent valves handle the gravity impact on both top and bottom cutting heads, delivering superior and consistent results.



Labeling Made Easy

Say goodbye to manual tracking of cut glass with Intermac Cut Up C. It automatically applies labels before scoring, ensuring accurate part identification and eliminating operator errors. This feature works for both monolithic and laminated glass, with customizable labels that include part details and barcodes, enabling seamless program loading for the next production steps.



No matter the thickness, always the perfect cut

Engineered for high performance, the system processes monolithic glass from 3 to 19mm and automatically breaks X cuts with the reinforced breakout bar of the laminated glass machine up to 10mm. The design with linear guides and torque shaft ensure even pressure and reliable breaking, allowing processing of laminated glass from 33.1 to 1010.4mm without specialized tools or expert operators.

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