

Biesse Machinery Glass

Product Portfolio



Biesse

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Founded in Italy in 1969
International natives

We simplify y
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of any materi

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

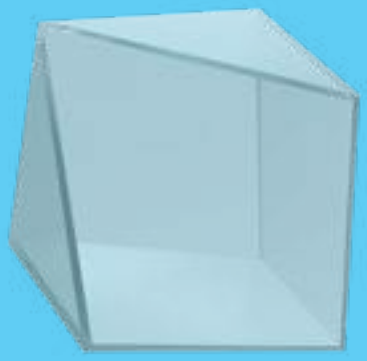
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Entra nel
mondo Biesse.

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.

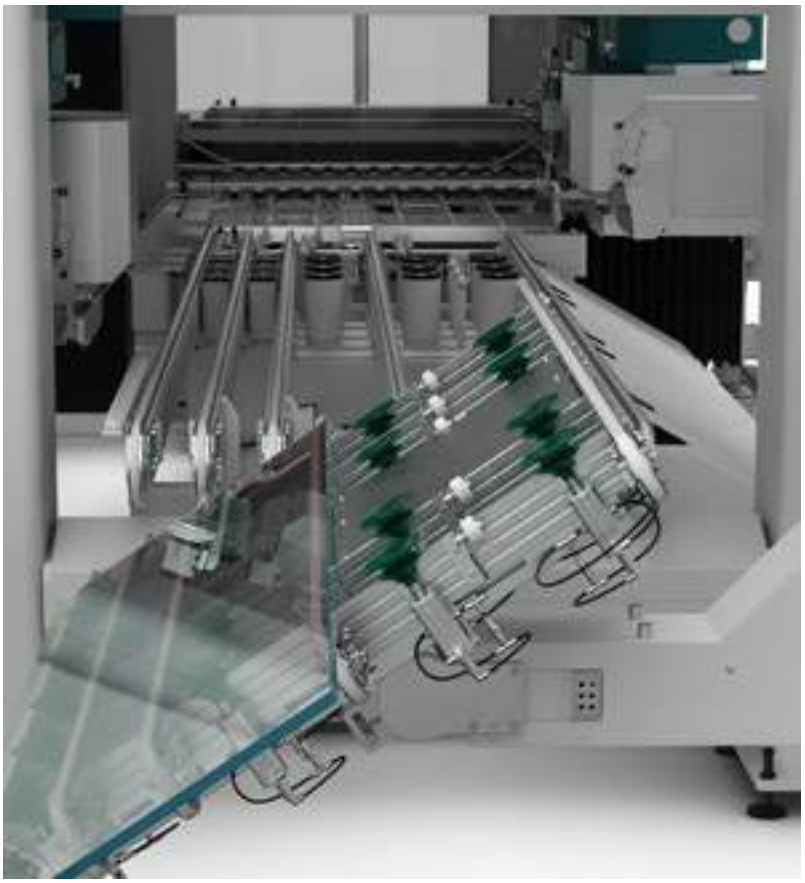
Intuitiveness, simplicity and flexibility are the foundations upon which the entire process is built.



Forvet

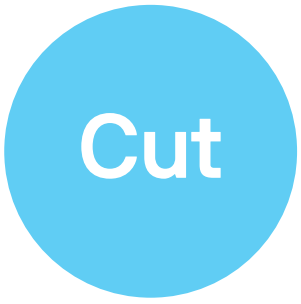
Forvet is a leader in the world of automatic machines for glass processing.

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



Cutting

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



Edging

Range of solutions for grinding and polishing glass.



Drilling

Range of solutions for boring, countersinking and milling glass.

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



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.

Pro

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.

Up

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.

Go

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.



Cut

Recap

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

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

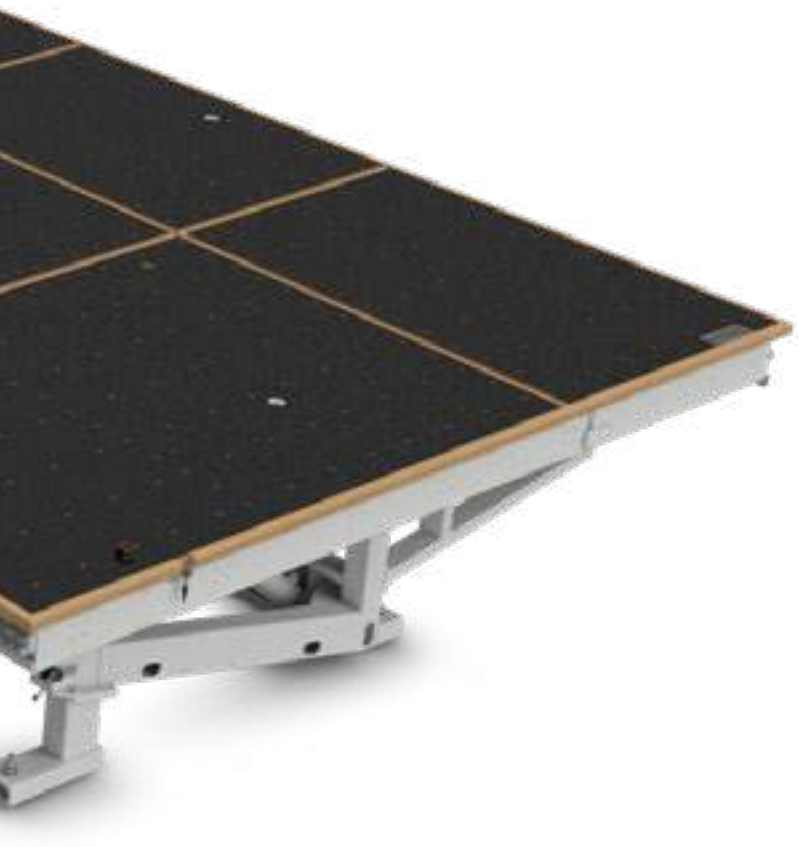
The tool changer automatically uses the right cutting wheel and parameters for different glass types, enabling continuous cutting of straight and curved shapes across various thicknesses without manual intervention.

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.



Flex your cuts

Designed for monolithic, low-E glass, and specialized applications, the Intermac Cut Up M 0 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

One & multi

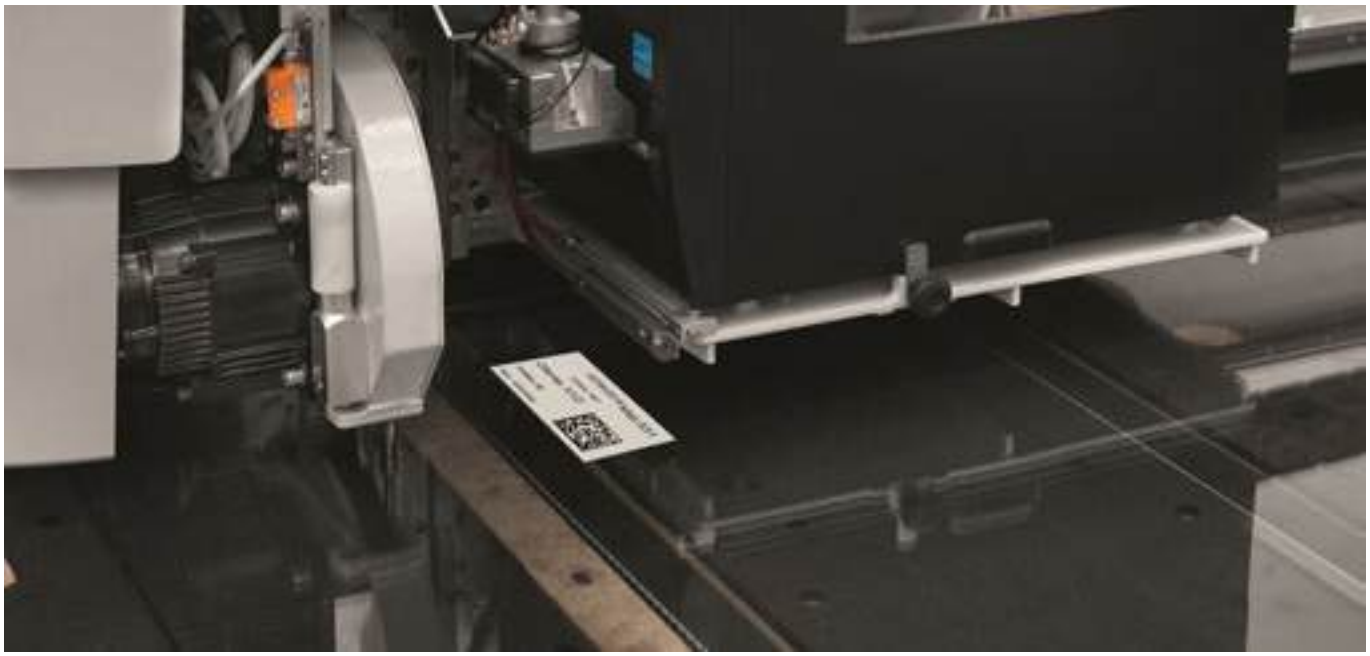
One machine, multiple processes. With the capability to process various types of glass and ceramic slabs, the machine unlocks a wide range of applications, making it the perfect all-in-one solution.

Safe by design

Intermac Cut Up M 0 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, adjuststing the programmed toolpath to the actual glass position, or detect the shape of a phisical template with 3 different strategies.



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.



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 proprer 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.



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.



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.

Intermac

Intermac Cut Up M B



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

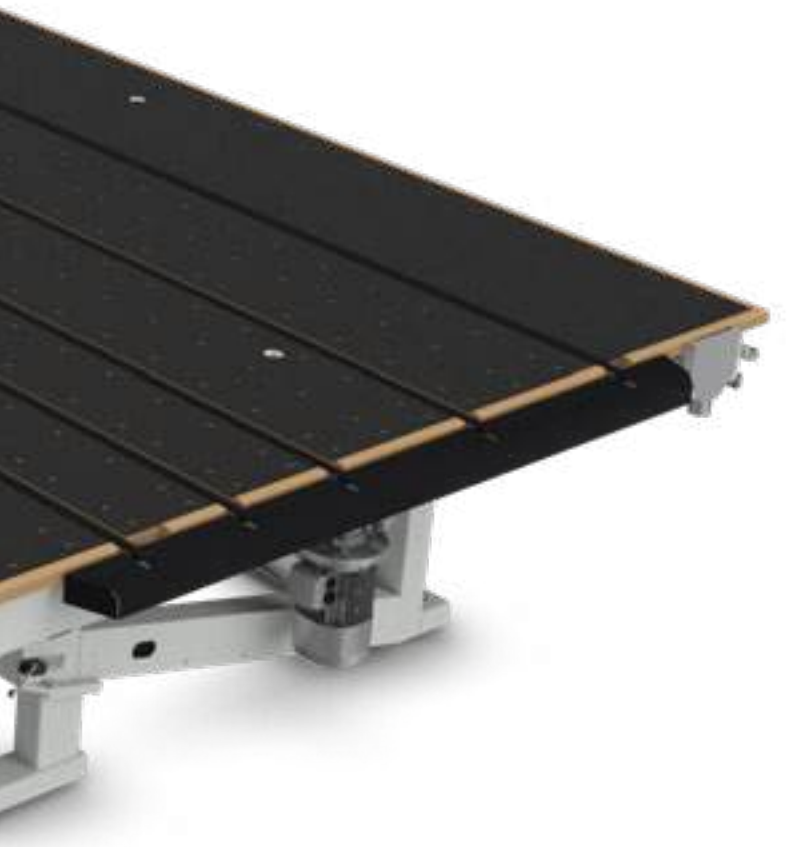
The tangential wheel with integrated dust collection system allows a clean, fast coating removal on straight and shaped geometries for a perfect scoring operation.

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.



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

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.

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.



Smarter, organized workflow

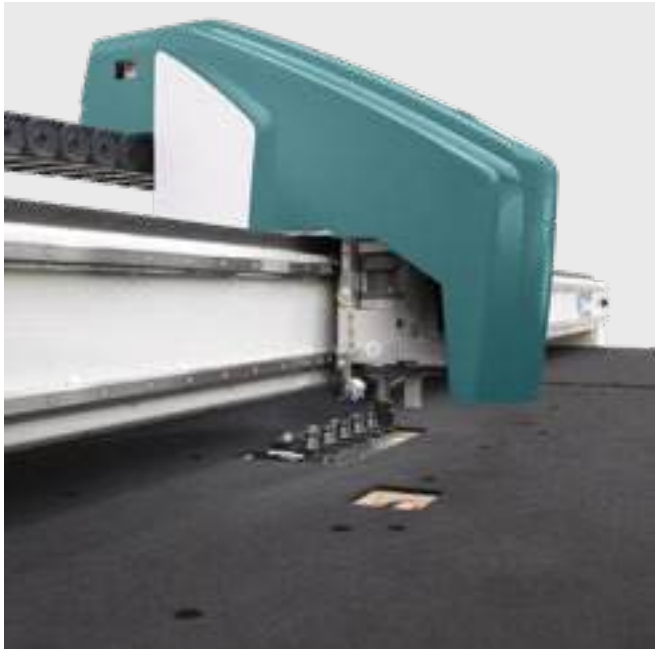
Manual tracking of cut glass through the production line is now a thing of the past. Intermac Cut Up M B can automatically apply labels before scoring to identify each cut part, eliminating the risk of operator errors associated with manual labeling. These customizable labels can include information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

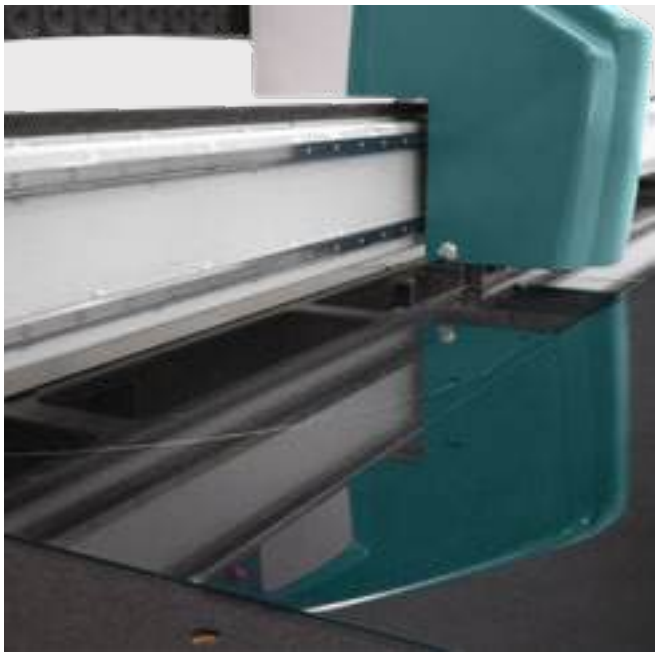
The machine is equipped with a tangential wheel for Low-E coating removal, mounted on a rotating axis to handle both straight and shaped paths. A high-efficiency dust collection system and optimized hood positioning enable fast, thorough coating removal, even on EasyPro or TPF glass, where finer dust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

Up



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 proprer 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.

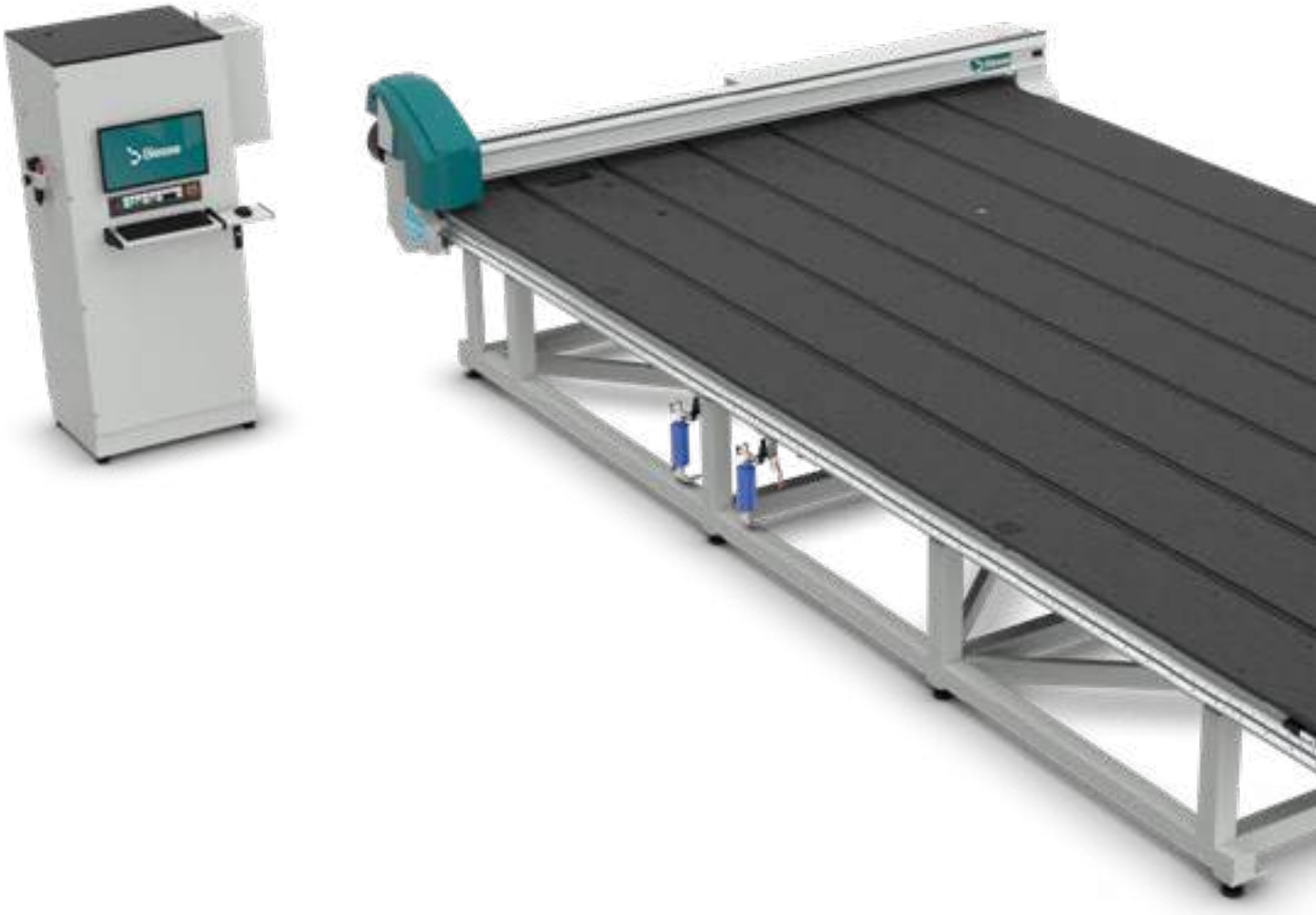


Precise cutting

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.

Intermac

Intermac Cut Go M B



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.



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.

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.

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 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.



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.

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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.

Intermac

Intermac Cut Go M O



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

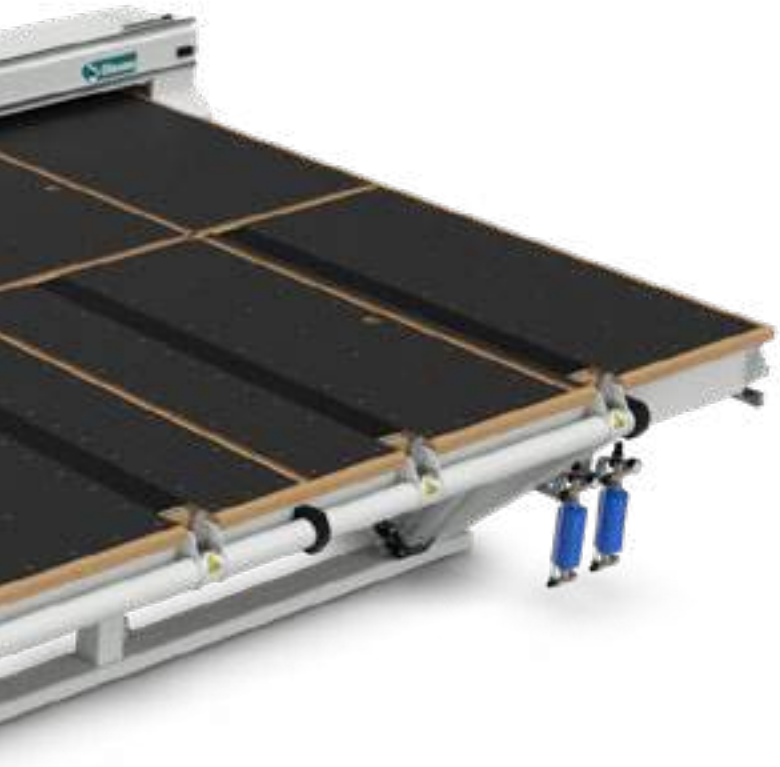
The tool changer automatically uses the right cutting wheel and parameters for different glass types, enabling continuous cutting of straight and curved shapes across various thicknesses without manual intervention.

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.



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

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.

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.

Go

Intermac

Intermac Cut Pro L B



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.

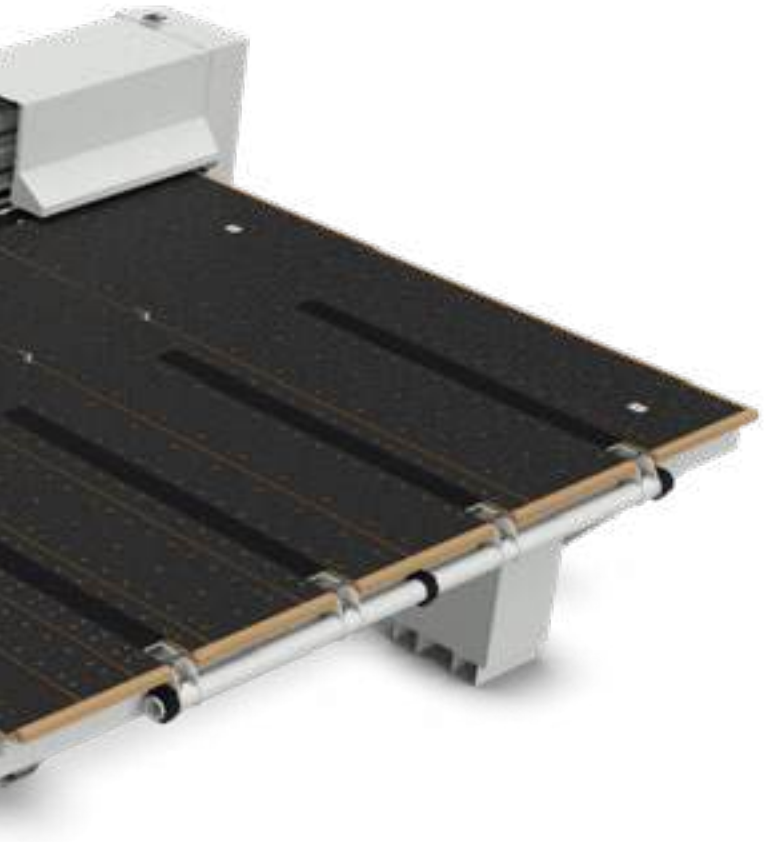
Two Pressures, One Perfect Outcome

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

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.

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.

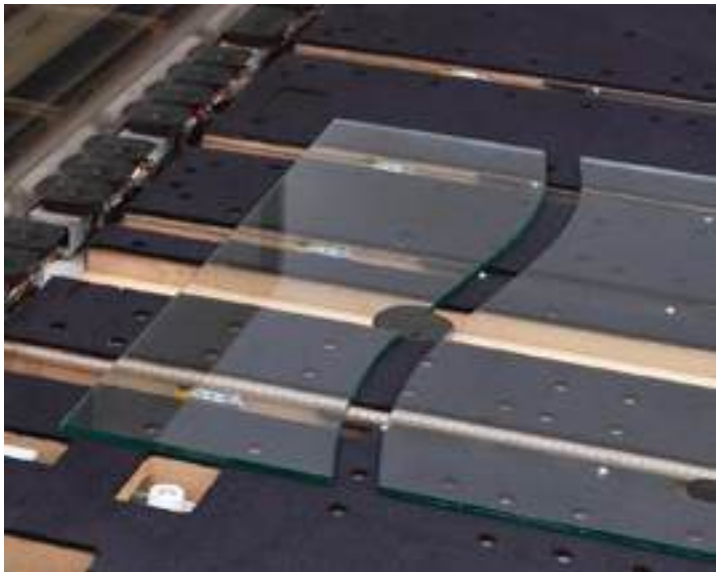
No glass is too thick

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.



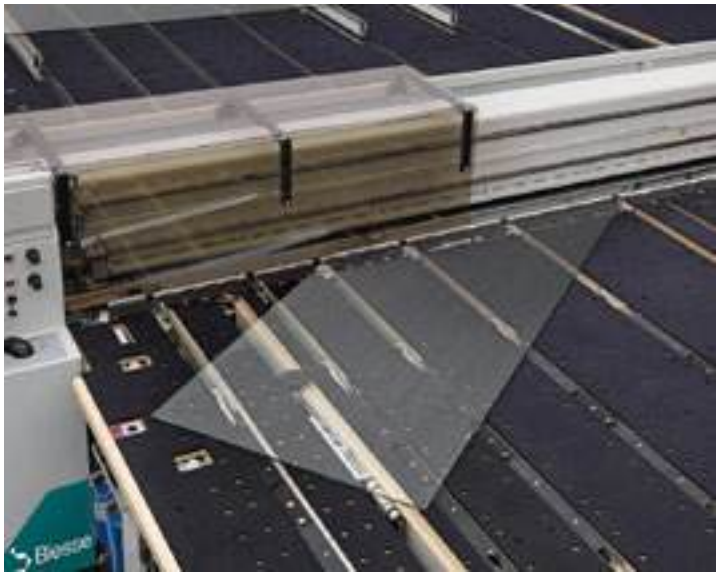
Maximize Efficiency, Minimize Footprint

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.



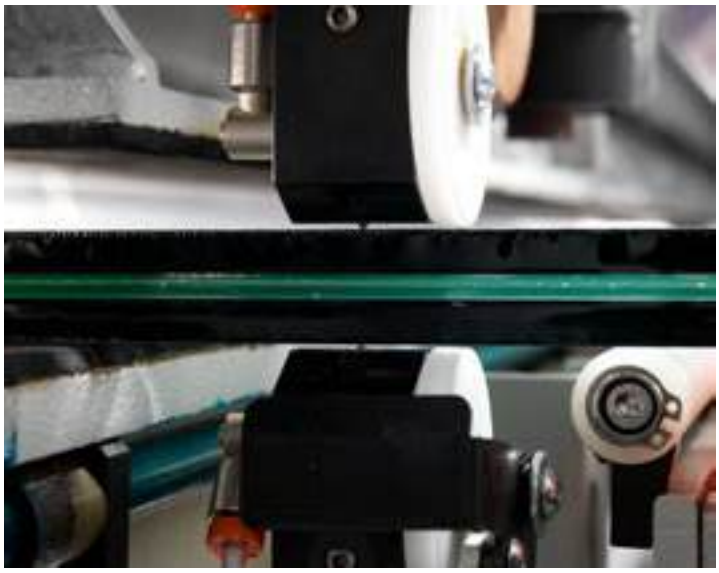
Get in shape!

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.



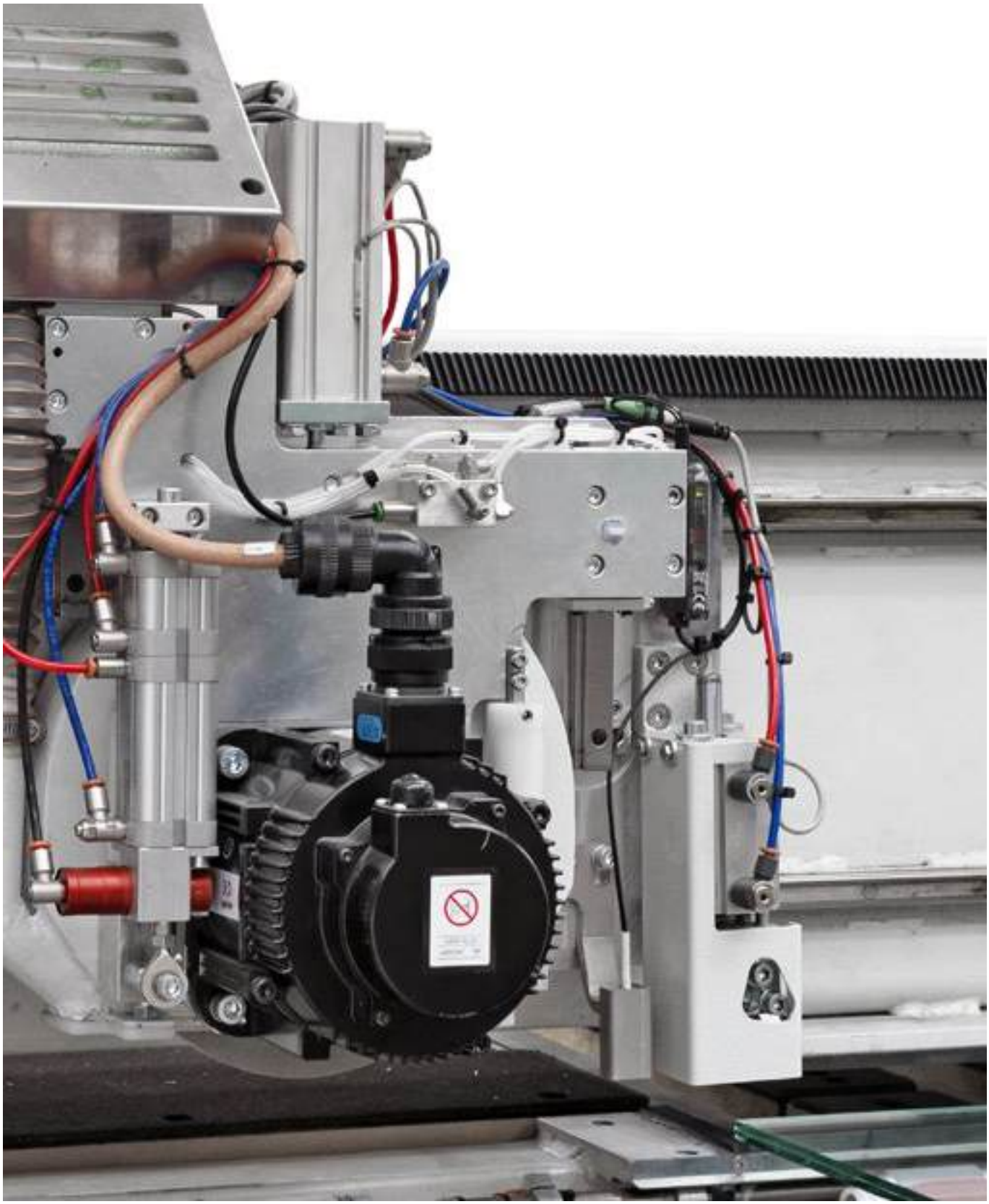
Cutting time, cutting waste

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.

Intermac

Intermac Cut Up L B



Smart Buffering

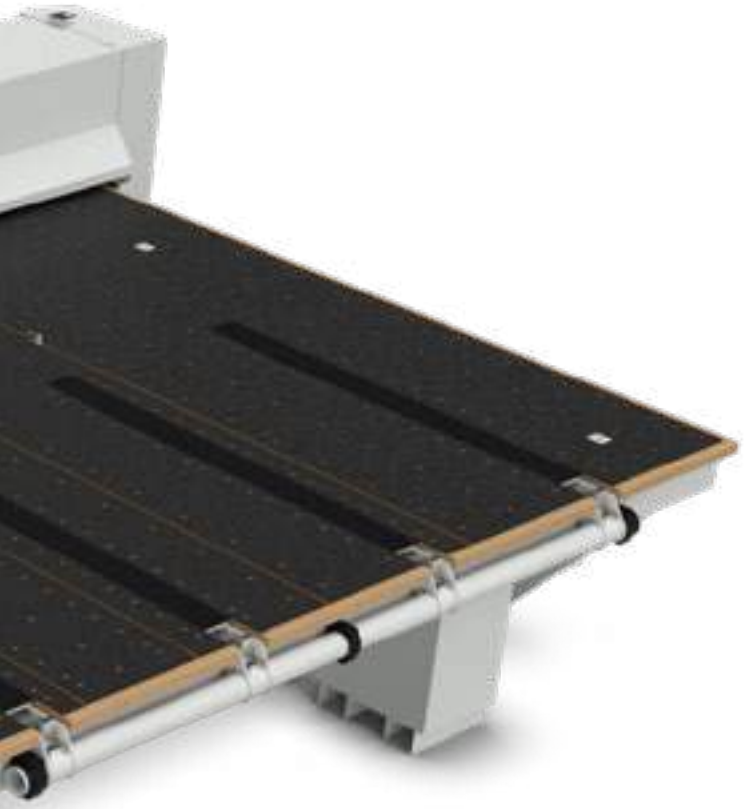
The vertical buffer zone on the loading table eliminates the need for longer machine design and time-consuming repositioning of sheet remnants for subsequent Y cuts, granting a boost in production.

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.



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

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.

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.



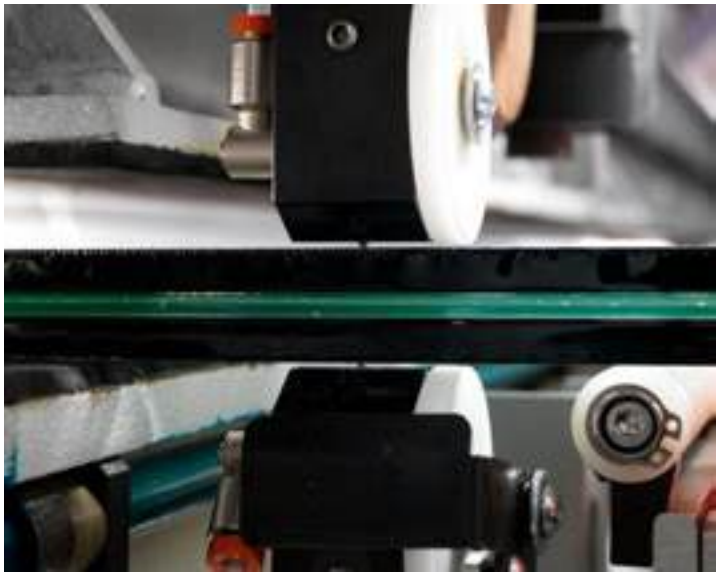
Smart Buffering

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.

Up



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.

Intermac

Intermac Cut Go L 0



Heavy duty cuts

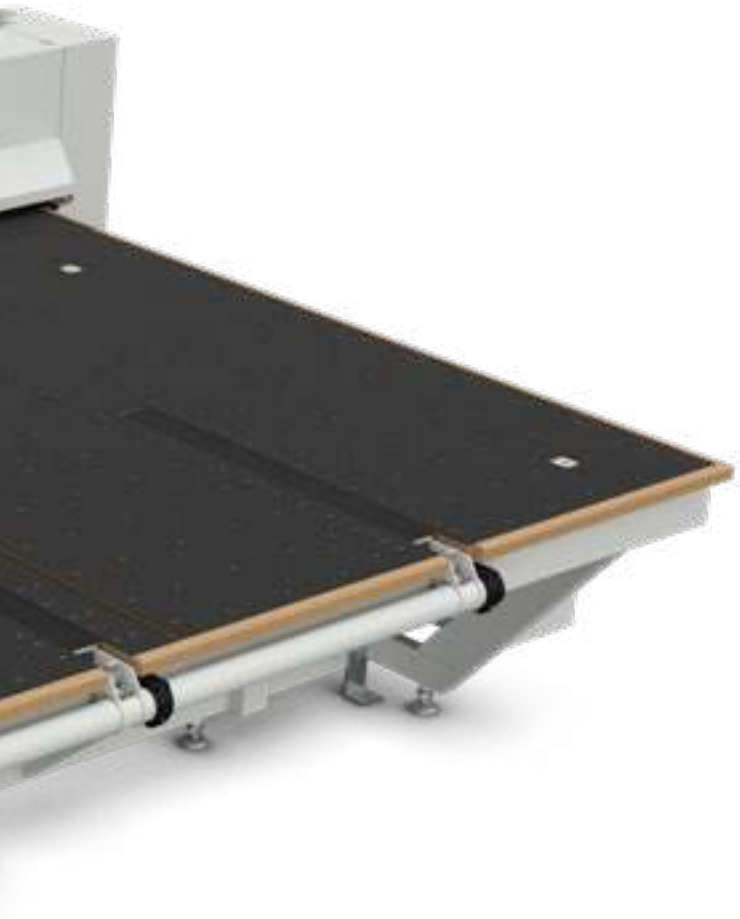
Thanks to its rigid structural design, the machine can process laminated glass up to 1010.4, performing all scoring, breaking, and separation operations with ease.

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.



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 seperation, 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.

Efficient Transport system for a Smooth Workflow

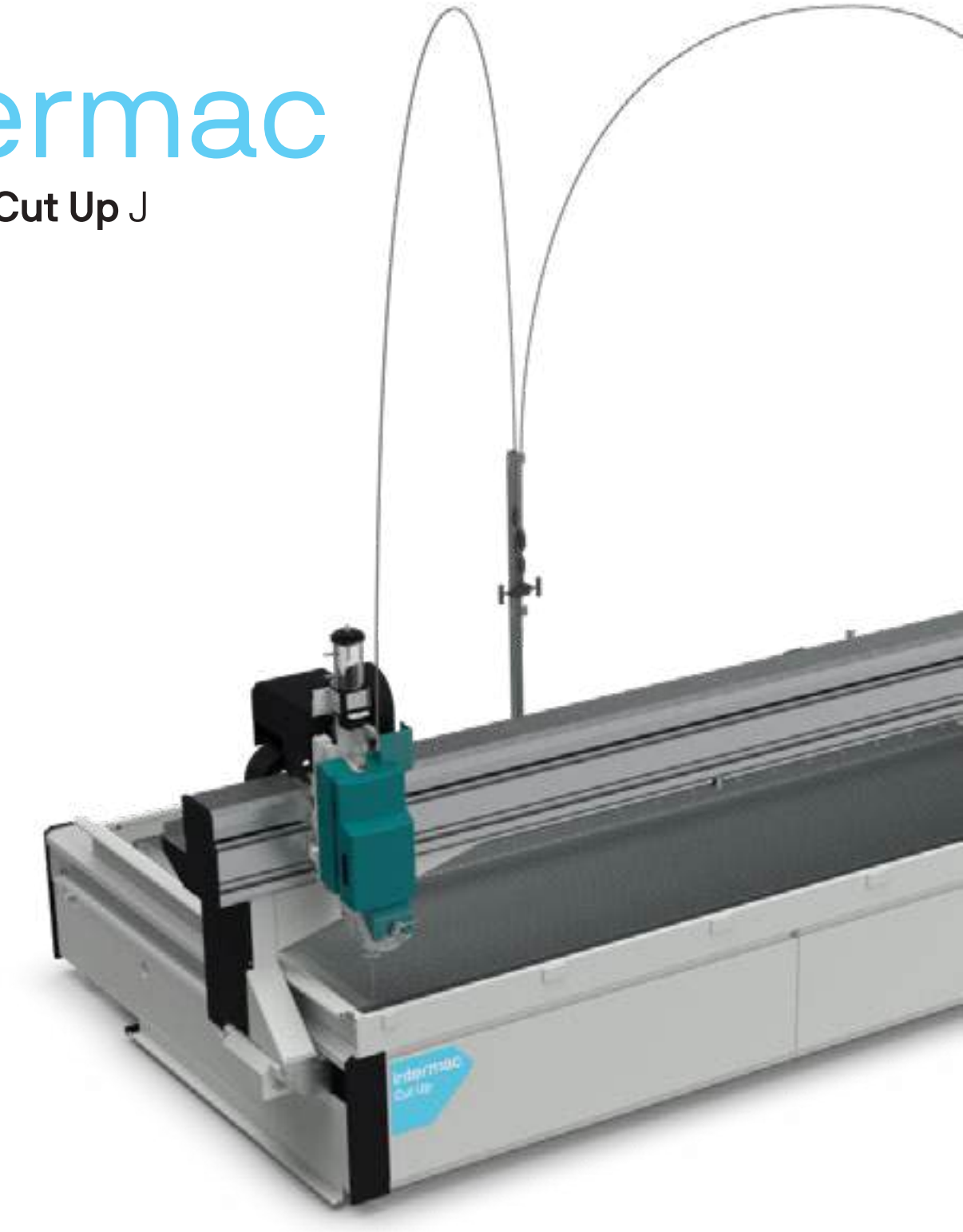
Assisted glass positioning between cuts is made easy with transport belts integrated into the machine frame, ensuring smooth and easier handling.

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



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.



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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Up

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.

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



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.



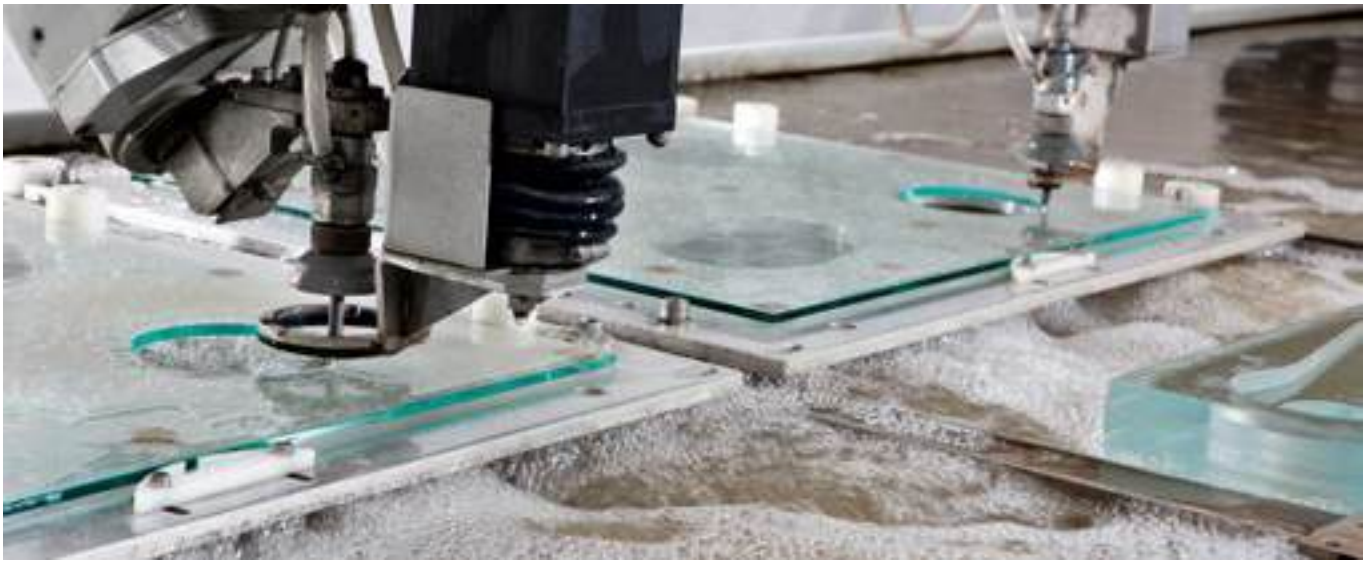
No splash, just perfection.

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.

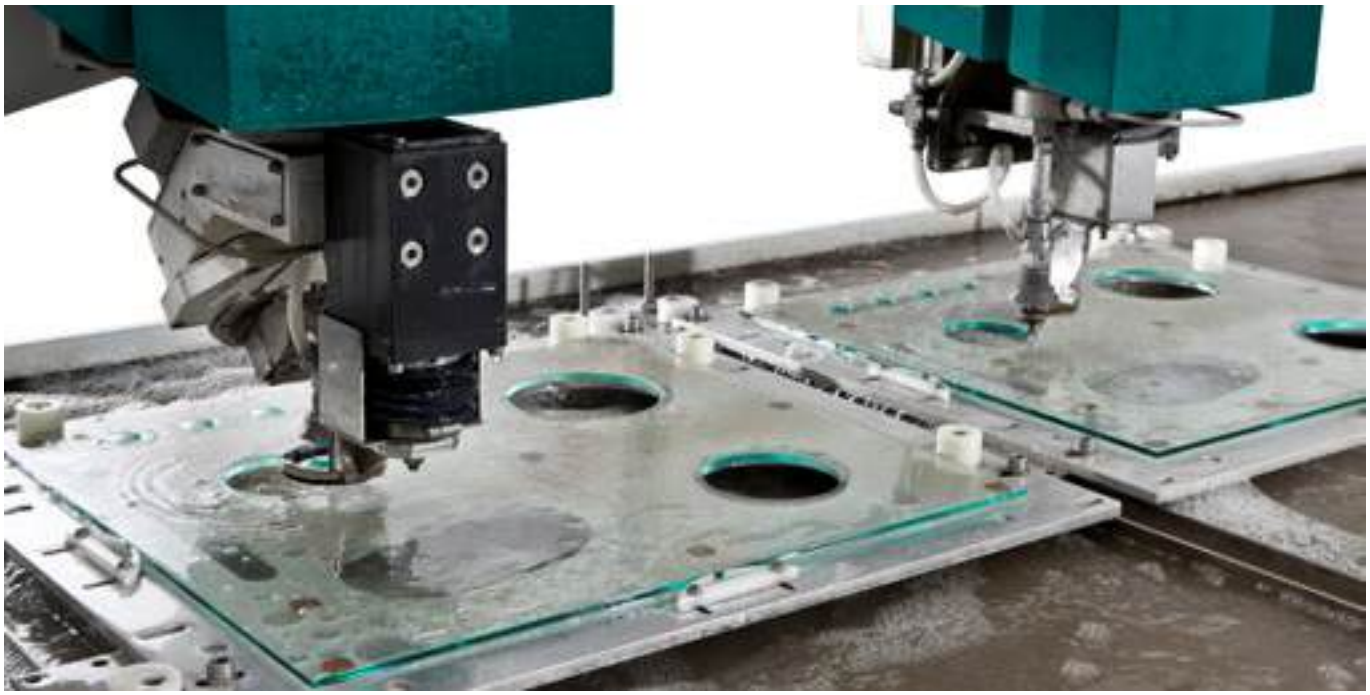


Small batches, big results, across all materials.

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



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

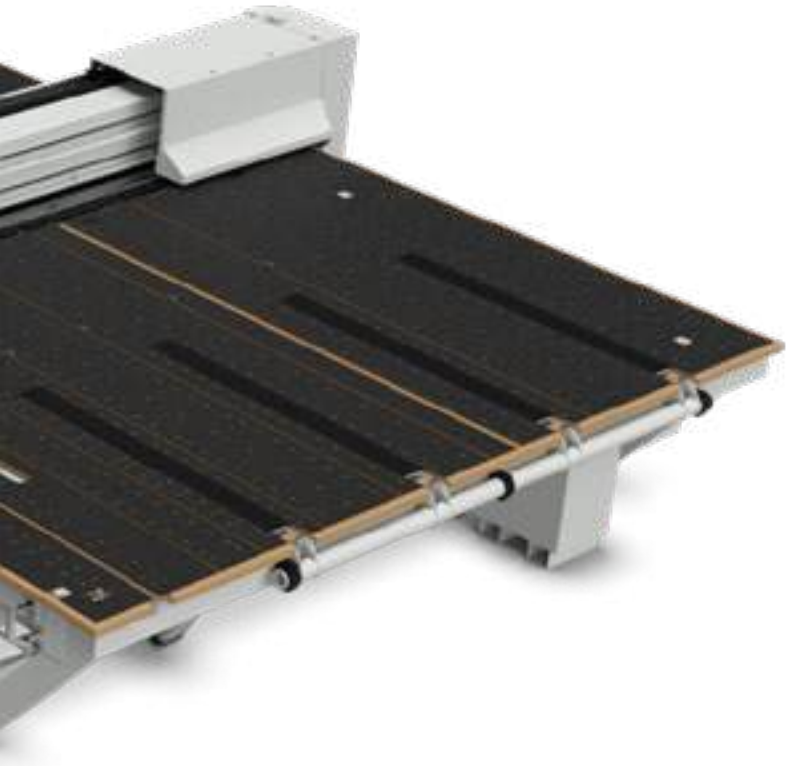
The advanced integration of the two machines ensures automatic glass handling, with tailored solutions for both monolithic and laminated glass, enabling faster operations and increased production efficiency.

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.



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.

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.

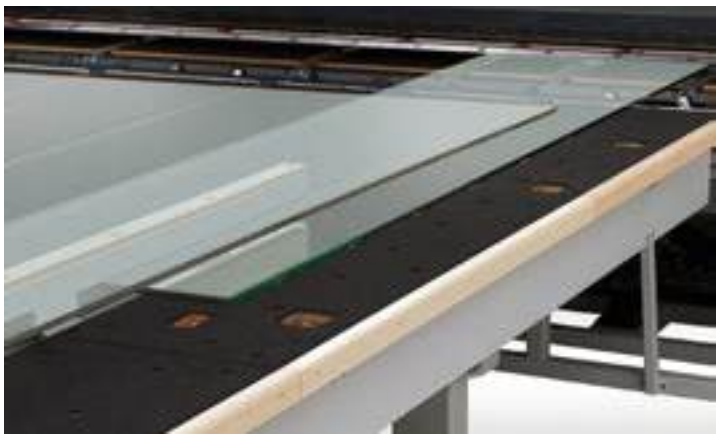
Clean edges, prefect cuts

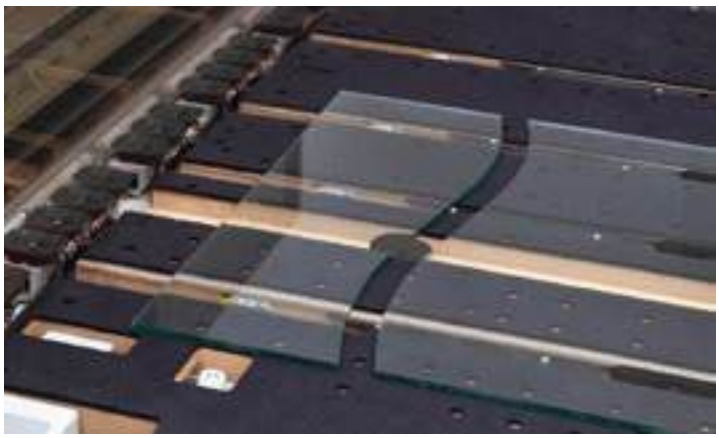
The system features tangential wheel units for efficient edge deletion, automating the low-E glass processing of both monolithic and laminated glass, delivering ready to process parts for the next production stages.

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.





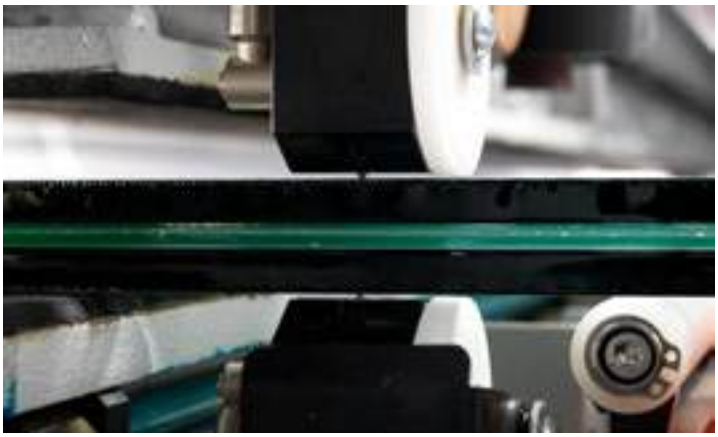


Handling Every Glass, Maximizing Every Cut

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.

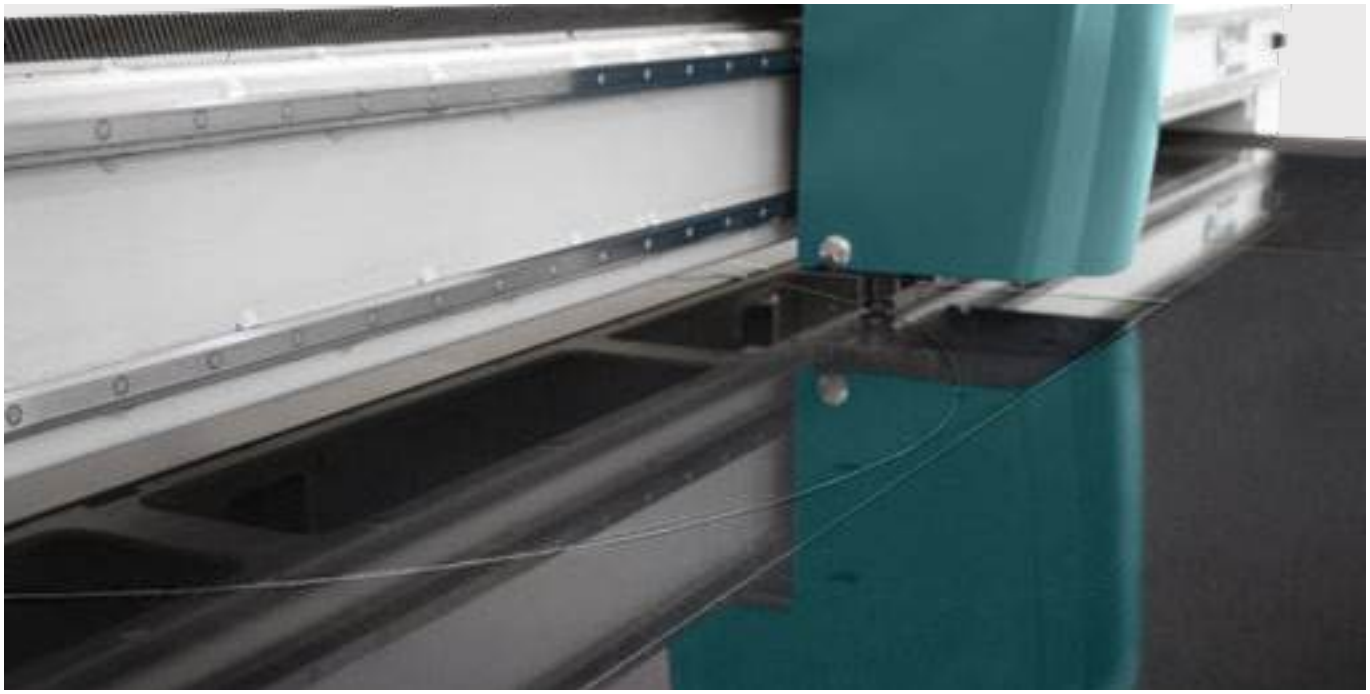


Clean edges, prefect cuts

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



Productivity and Flexibility in Perfect Harmony

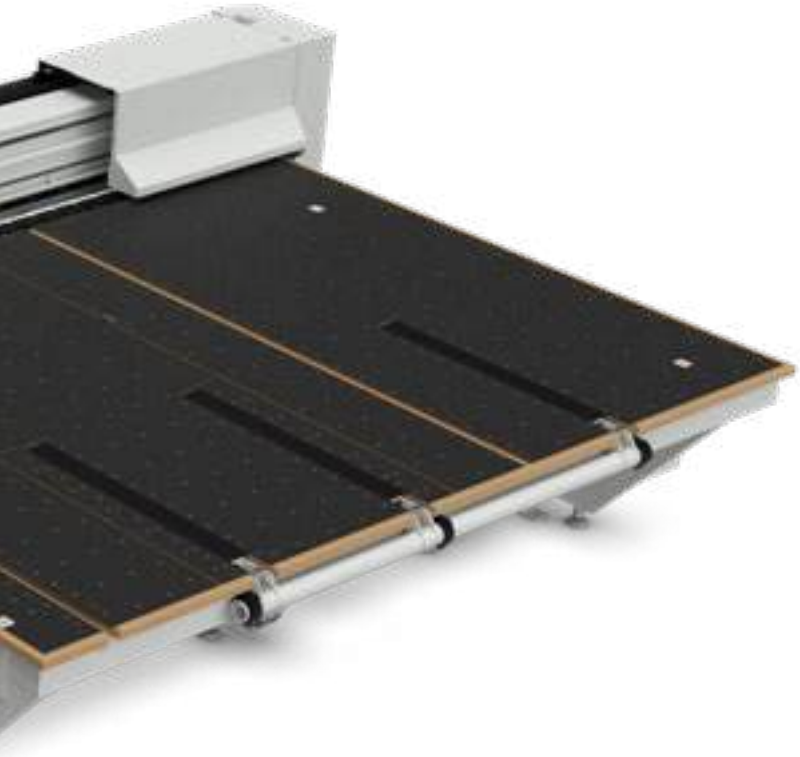
By integrating two specialized machines, the system delivers tailored solutions for monolithic and laminated glass, streamlining workflows and ensuring seamless operation.

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.



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.

Up

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.

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.

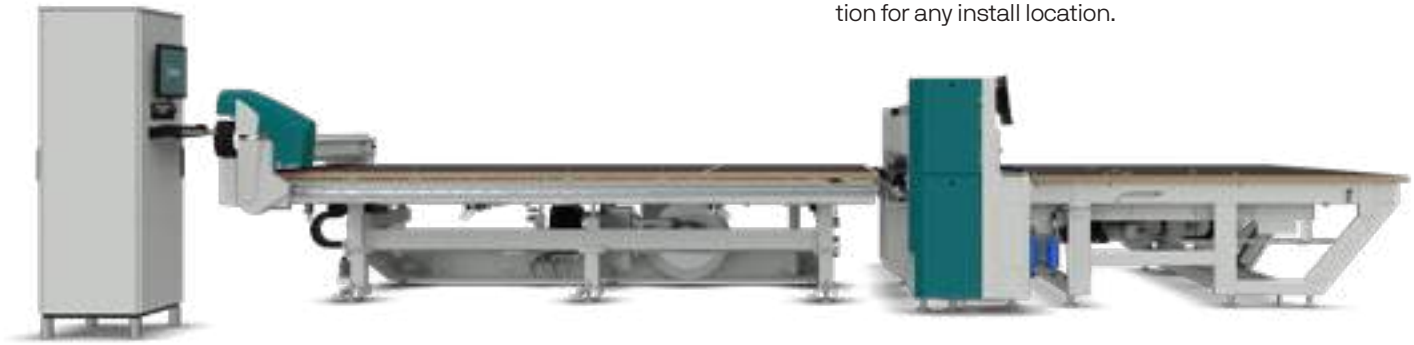


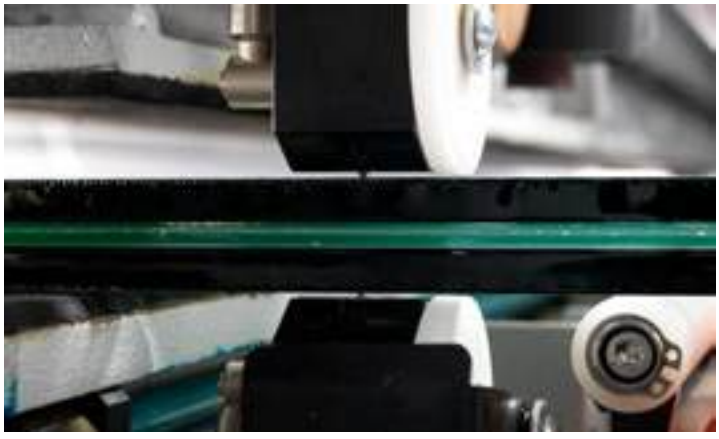
Productivity and Flexibility in Perfect Harmony

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

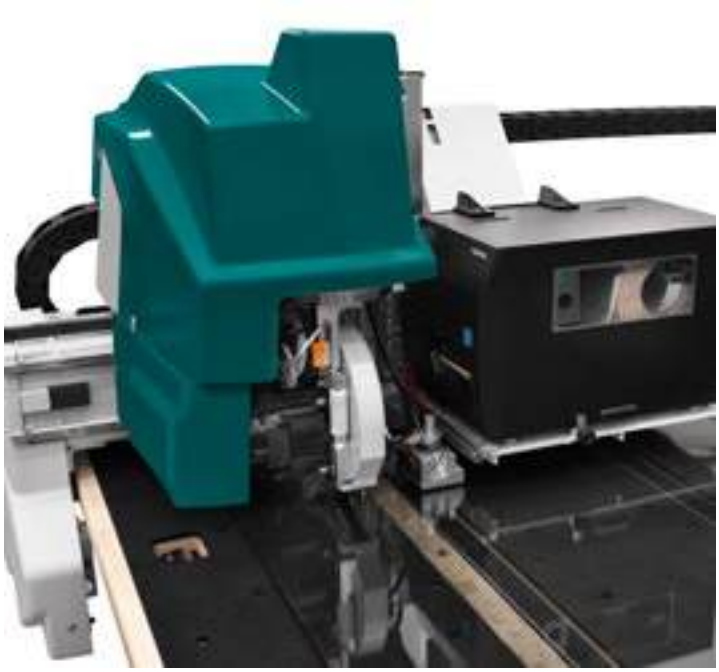
Small size, minimal space required. The great advantage of a combi system is its compact footprint, especially when compared to two independent machines. The innovative glass buffer system further reduces the space needed, making it the ideal solution for any install location.





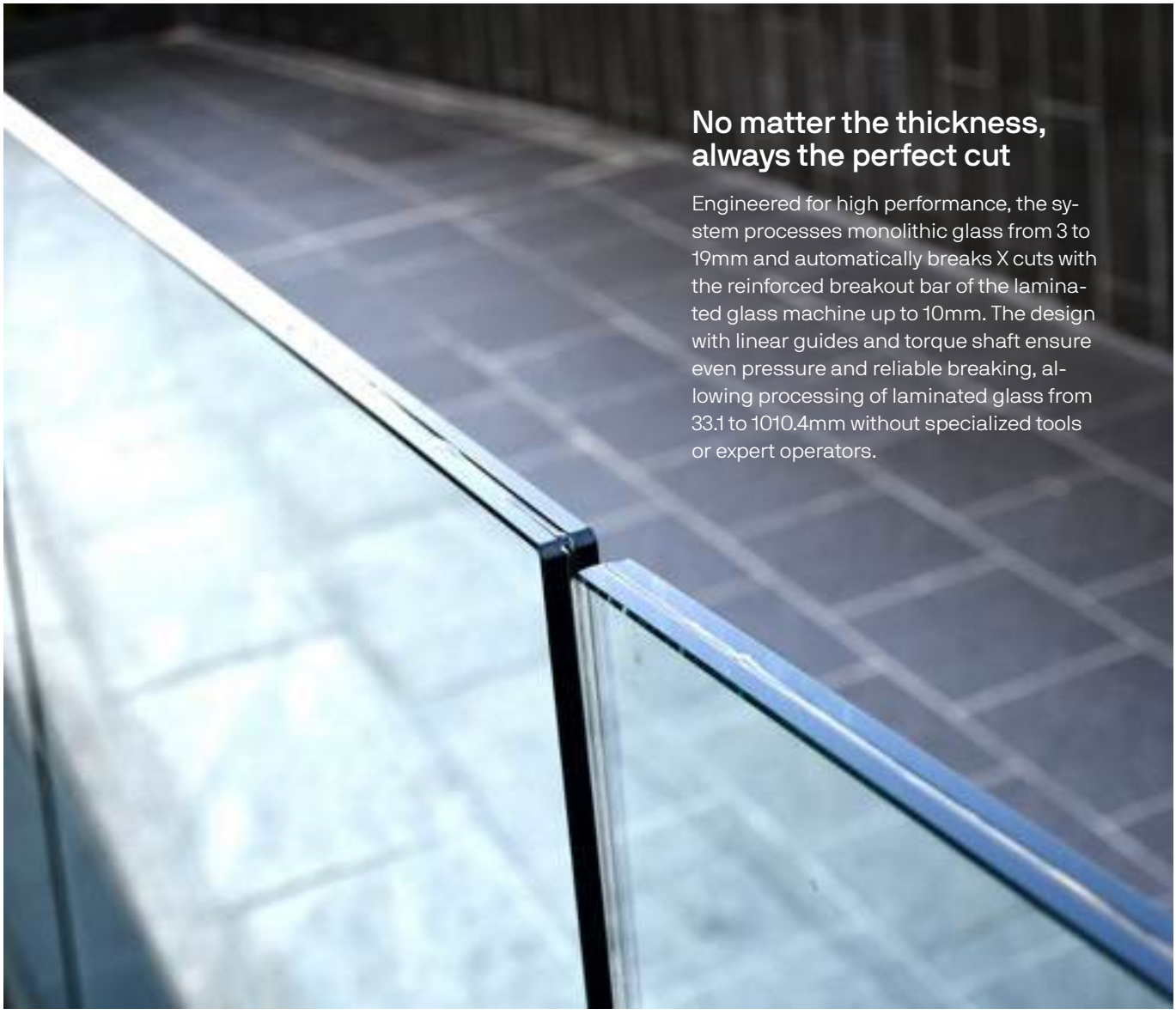
Controlled pressure for perfect cuts every time

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.

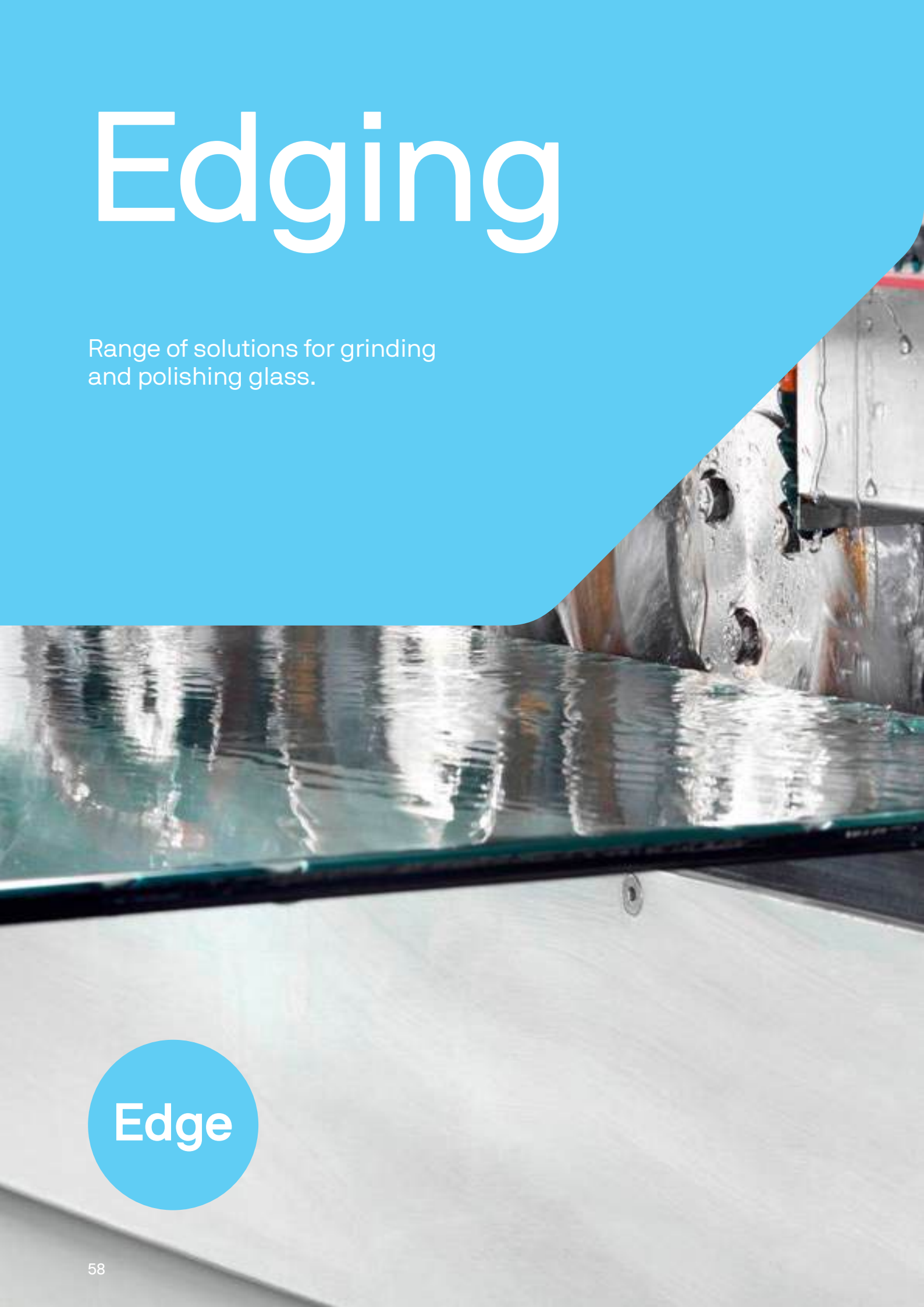


No matter the thickness, always the perfect cut

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.

Edging

Range of solutions for grinding
and polishing glass.



Edge

Recap

Discover
all our edging
machines

biesse.com

Single sided

Product Brand	Model	Segment
Intermac	**Intermac Edge Pro** S B50	Pro
	Intermac Edge Pro S F50	Pro
	Intermac Edge Up S B35	Up
	Intermac Edge Up S F50	Up
	Intermac Edge Go S F35	Go

Double sided

Product Brand	Model	Segment
Intermac	**Intermac Edge Pro** D F	Pro

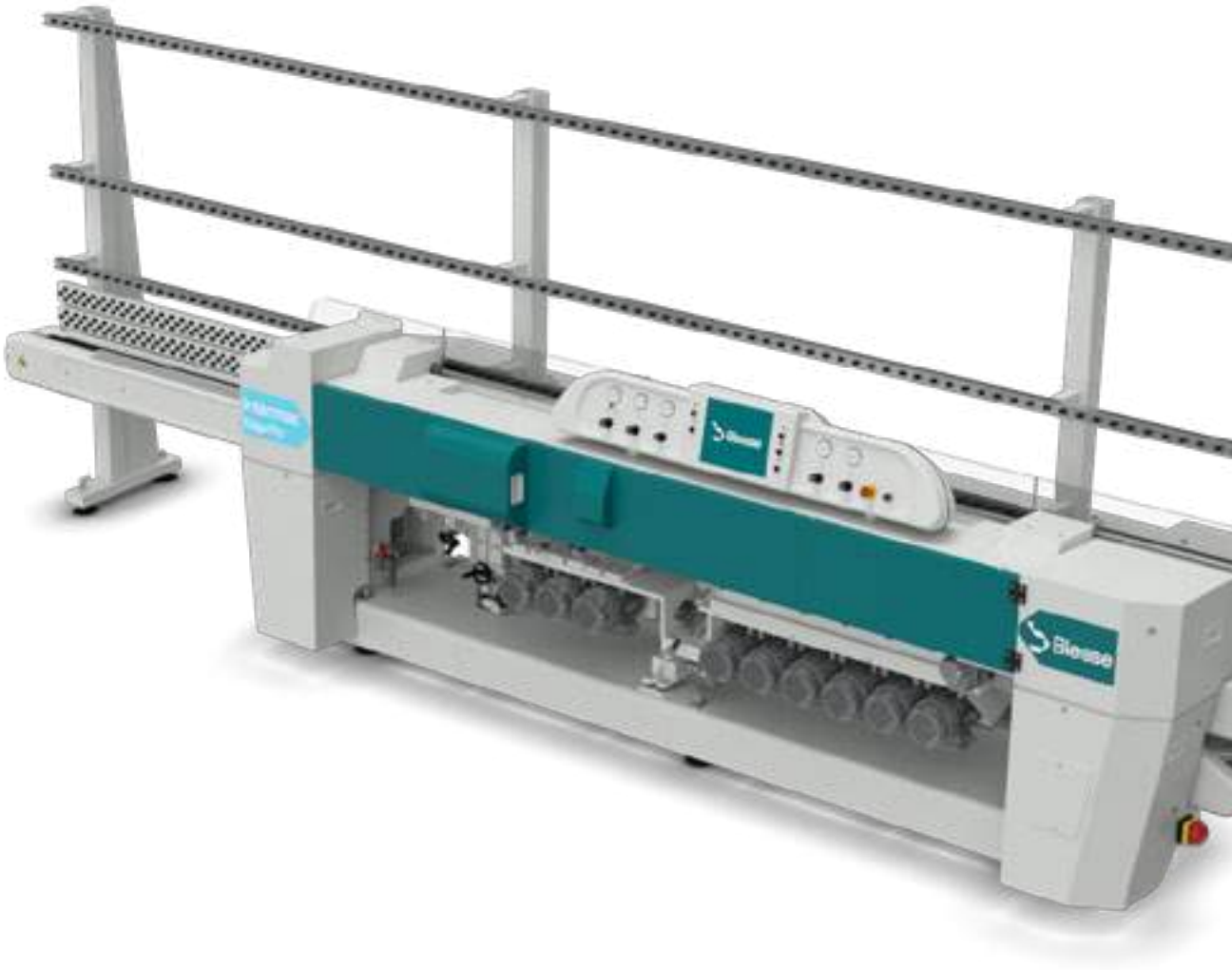
Quadruple Sided

Product Brand	Model	Segment
Intermac	**Intermac Edge Pro** Q 408	Pro
	Intermac Edge Pro Q 410	Pro
	Intermac Edge Pro Q 210	Pro

Single sided

Intermac

Intermac Edge Pro S B50



Beveling at highest levels

9 beveling wheels set for the most demanding production.

Without ball bearing to last longer

Our historically tested and long-lasting system.

Change the beveling angle

The worm screw system allows precise bevel angle adjustment via via human machine interface.

Wide color touchscreen monitor

Bevel calculation, machine automatic positioning, fast trouble-shooting.

The top of the range

The choice of those companies producing beveled glass at industrial levels.

Thanks to the number of wheels and their configuration, it is possible to achieve astounding results in terms of quality and productivity, aspects that have always distinguished our machines in the field of straight-line beveling.



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.



Extendable pads

Our way of processing small pieces beveling.

Glass in, glass out

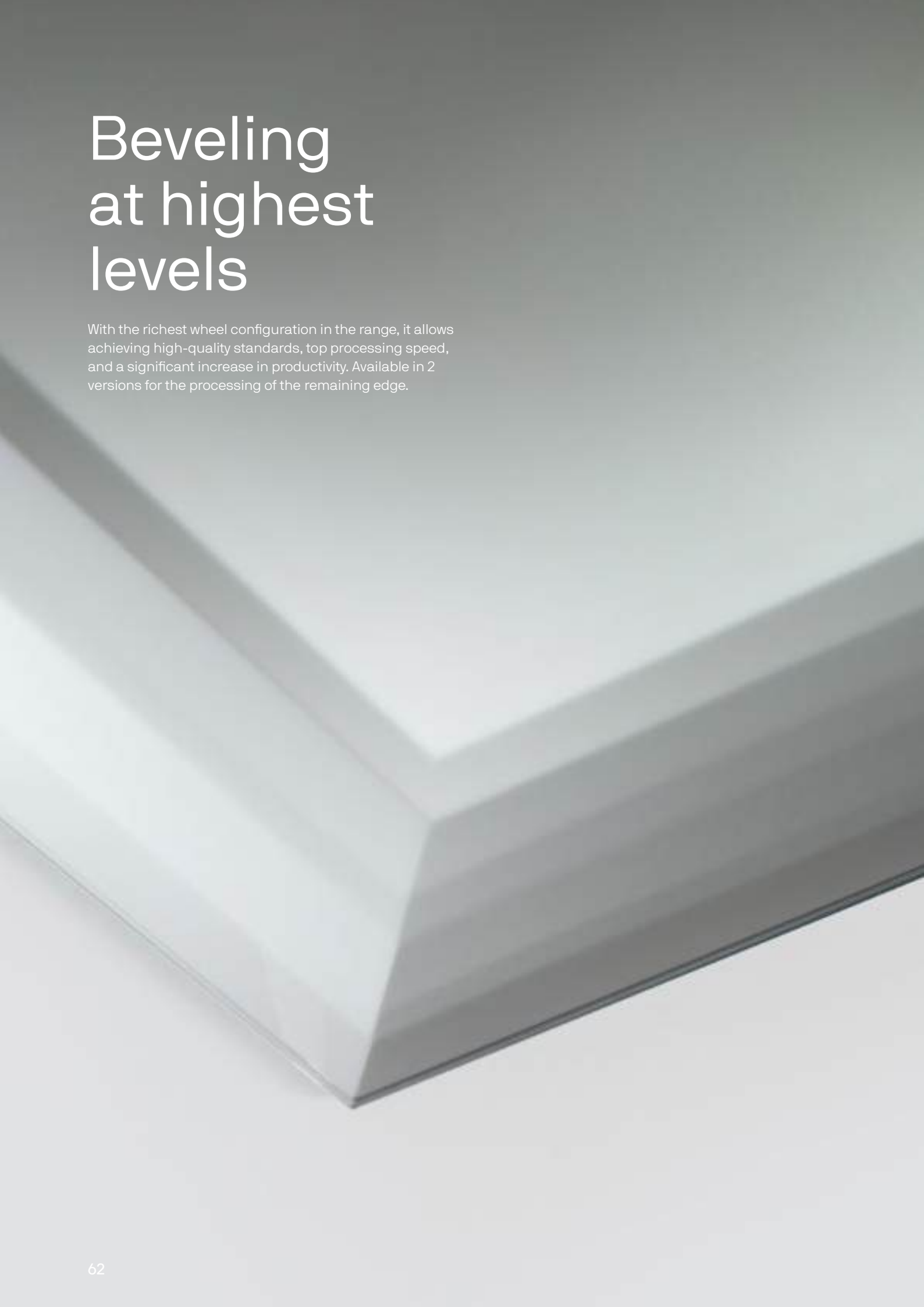
Conveyors chains are designed to be easily maintained.

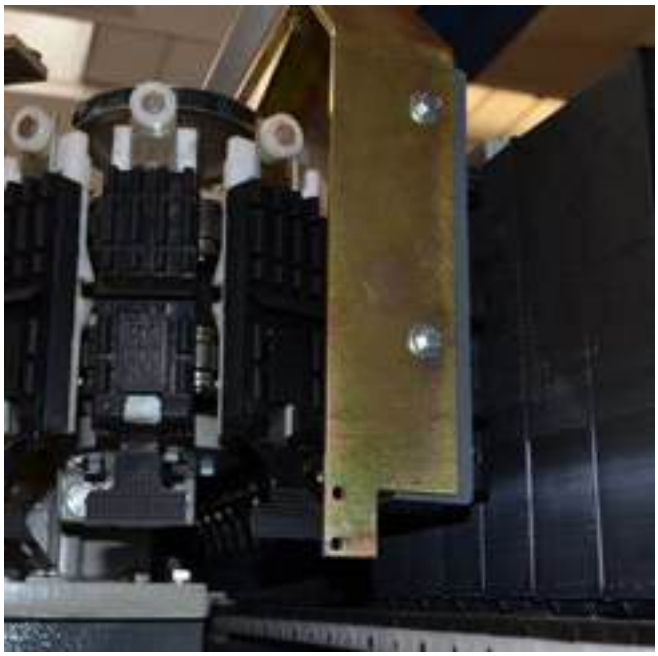
Centralized lubrication

Automatic centralized lubrication of the conveyor.

Beveling at highest levels

With the richest wheel configuration in the range, it allows achieving high-quality standards, top processing speed, and a significant increase in productivity. Available in 2 versions for the processing of the remaining edge.





Without ball bearing to last longer

It consists of ground precision guides on which rubber-coated cast iron conveyors run, without ball bearings, ensuring low maintenance costs and excellent performance.



Change the beveling angle

Set by the operator via via human machine interface, the bevel angle is adjusted with extreme precision thanks to the worm screw system, thus avoiding potential errors due to manual intervention.



Glass in, glass out

The glass transportation on inlet and outlet arms is by means of Delrin made chains combined with rubber anti-friction pads. All parts can be easily replaced, ensuring low maintenance cost and fast change.

Cooktops

It’s for everyone, but not everyone is up to it.
Every minute is worth the result. Just brilliant!





Beveled mirror

We have been absolute pioneers in beveling, taking amazing mirror samples in exhibitions all over the world.



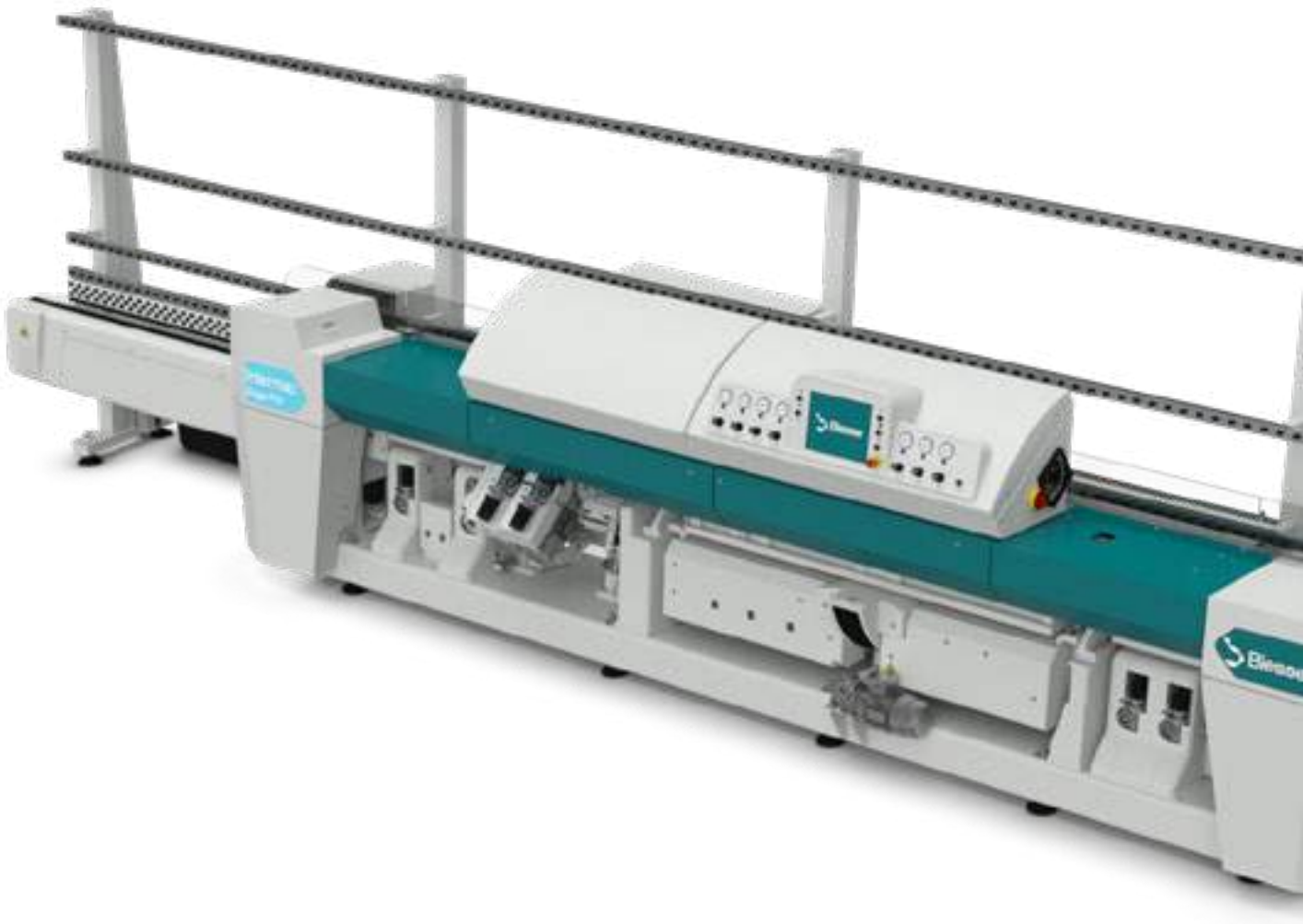
Furnishings

Even the most creative applications take shape with our machinery.

Single sided

Intermac

Intermac Edge Pro S F50



Spindle Control System

Motorized diamond, polishing spindles fit with proportional valves.

Heavy duty tasks are not a challenge

Double-drive conveyor, granting optimum synchronization of glass transport and increased mechanical performance.

Performance with low running costs

Conveyor pads sliding on rectified steel guide-rails without ball bearings.

Smooth and vibration free

High glass finishing quality: the spindles separated from the electrical motors and connected to same through a transmission belt, avoiding vibration.



Everything is BEST

Up to 14 tools for the best machining result. Variable cutting angle from 0 to 45°, SCS spindle control system for the most complete and high-performance machine on the market.

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.



Jumbo mode

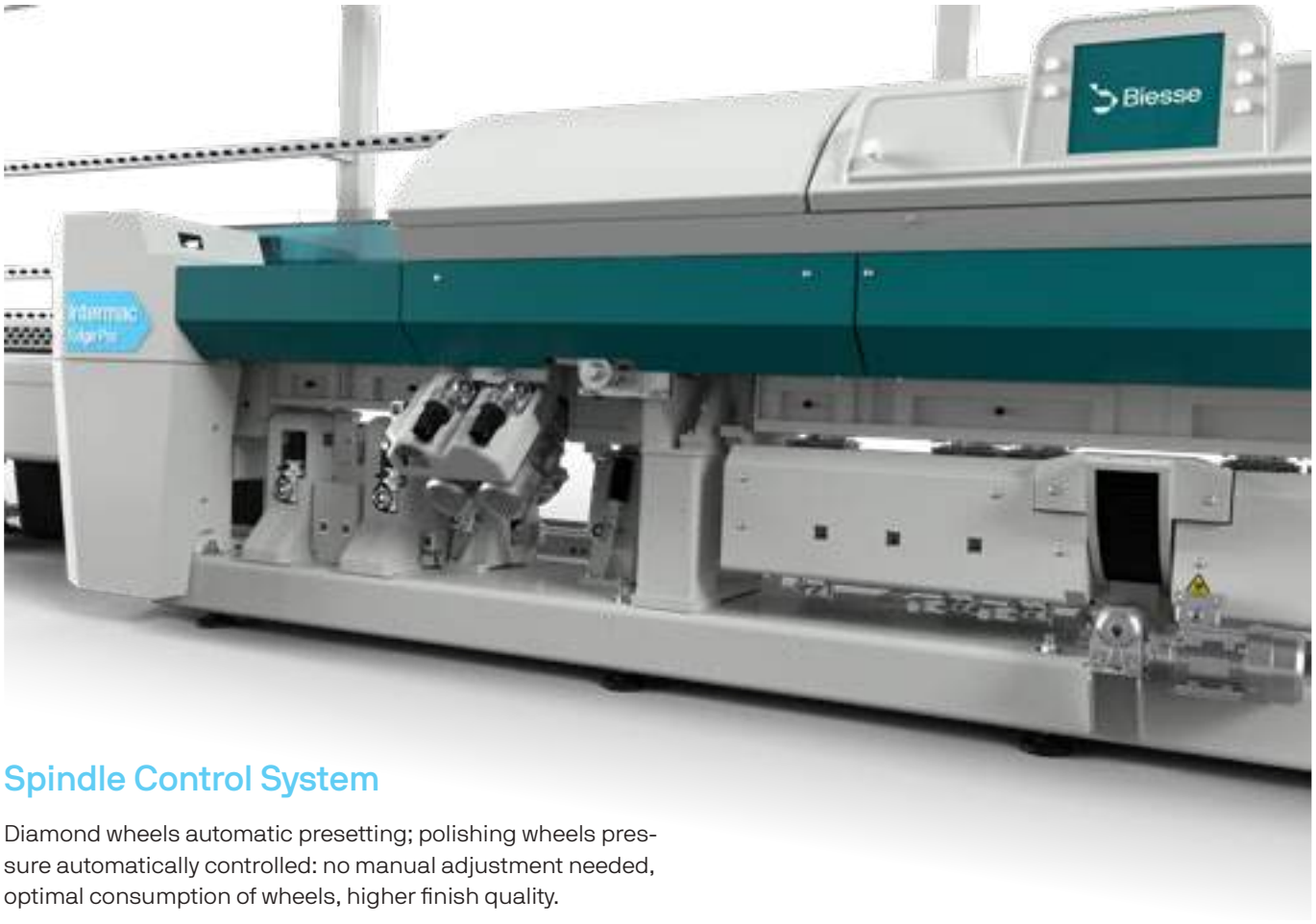
Pedal to start and stop the movement of the inlet arm for loading up to jumbo size glass sheets.

Digitally adjusted

Glass removal adjustment directly from the control panel.

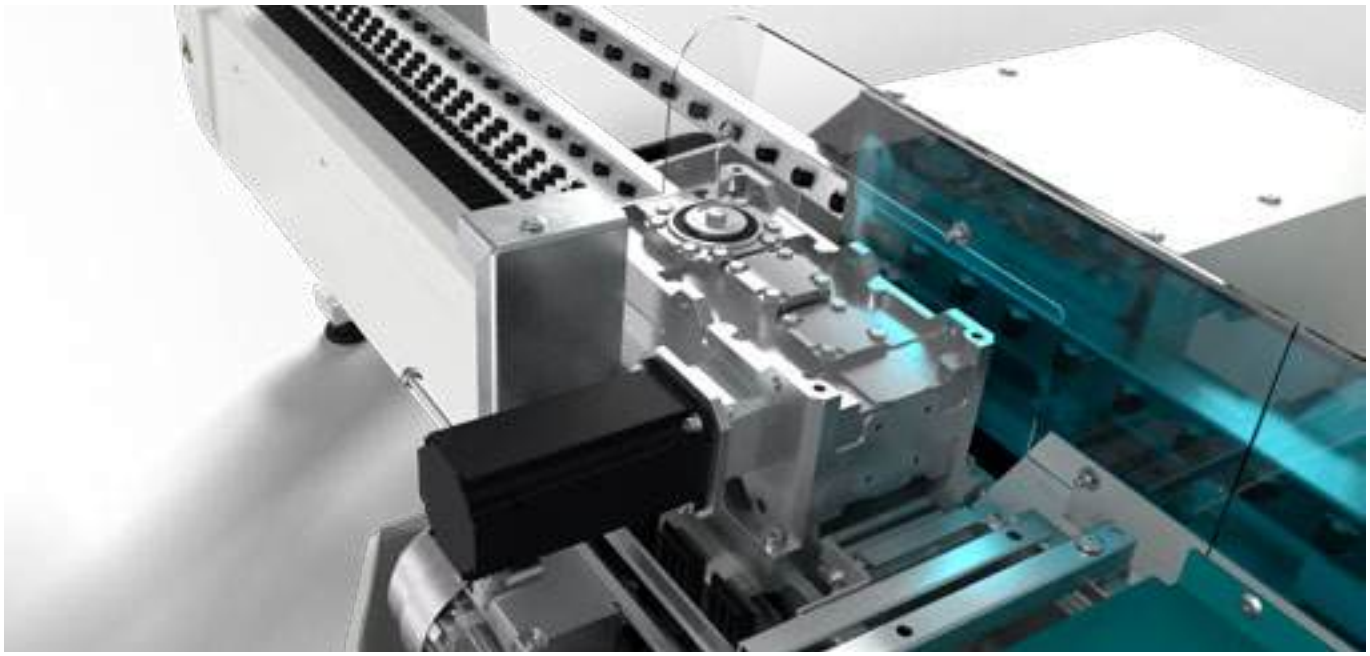
Wide screen control panel

Big size and user-friendly touch screen control panel.



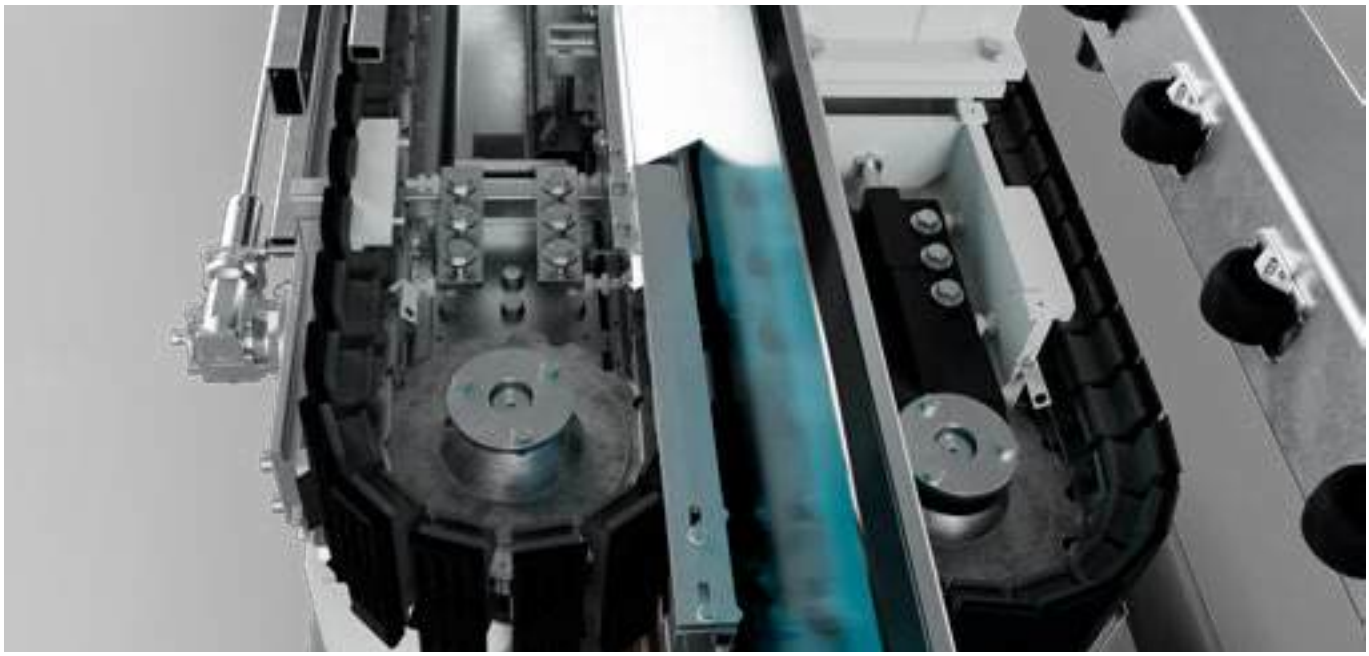
Spindle Control System

Diamond wheels automatic presetting; polishing wheels pressure automatically controlled: no manual adjustment needed, optimal consumption of wheels, higher finish quality.



Heavy duty tasks are not a challenge

Unique in the market, our innovative glass conveying system is driven by two motors for greater mechanical efficiency of the system, which combined with the solid structure of the machine enables the handling of large thicknesses and large glass up to 350Kg per meter of belt. This results in a significant increase in machine performance.



Performance with low running costs

With more than 25 years of experience, this technology offers reliability, precision and exceptionally low operating costs. The glass conveyor features two of our reliable solutions: anti-friction and wear pads, which run on ground steel guides, and the conveyor system itself without ball bearings. The goal is a system that is less prone to wear and produces very little vibration.



Smooth and vibration free

The flat edge processing spindles are isolated from the electric motor, with power transmission handled by belt and pulley to minimize any potential vibrations. Lubrication is ensured by long-life grease, optimizing performance and durability.



Architectural glass

Indoor and outdoor architectural applications,
always with precision and quality.

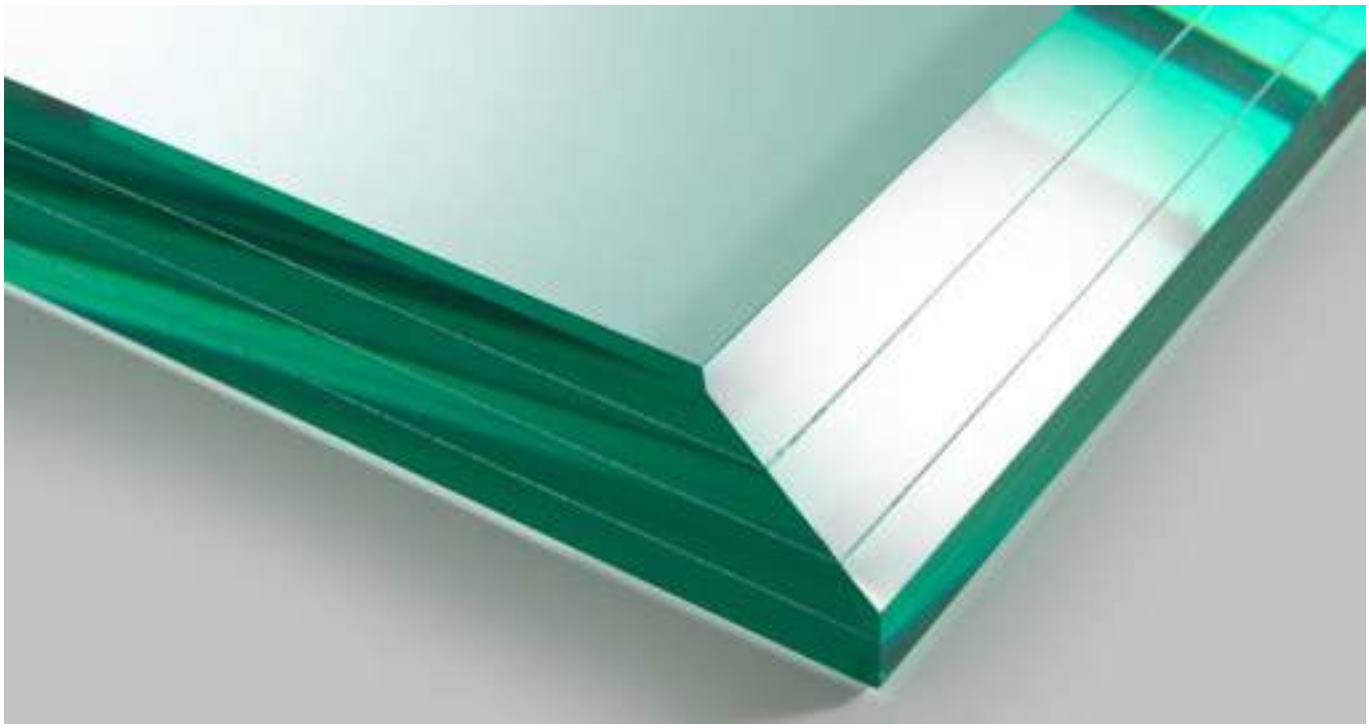
Monolitic glass grinding

When the edge is this beautiful, it deserves to be showcased. Premium finishes for visible glass.



Safety glass processing

For all applications where large glass removal is a must.
Our machinery does not fear heavy duty work.



Single sided

Intermac

Intermac Edge Up S B35



Without ball bearing to last longer

Our historically tested and long-lasting system.

Change the beveling angle

The worm screw system allows precise bevel angle adjustment via human machine interface.

Wide color touchscreen monitor

Bevel calculation, machine automatic positioning, fast trouble-shooting.

The most popular beveling machines

An excellent machine for achieving a quality result with cutting-edge and reliable solutions, a balanced investment, capable of meeting the needs of most customers, also thanks to the 2 available versions.

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.





Extendable pads

Our way of processing small pieces beveling.

Glass in, glass out

Conveyors chains are designed to be easily maintained.

Centralized lubrication

Automatic centralized lubrication of the conveyor.



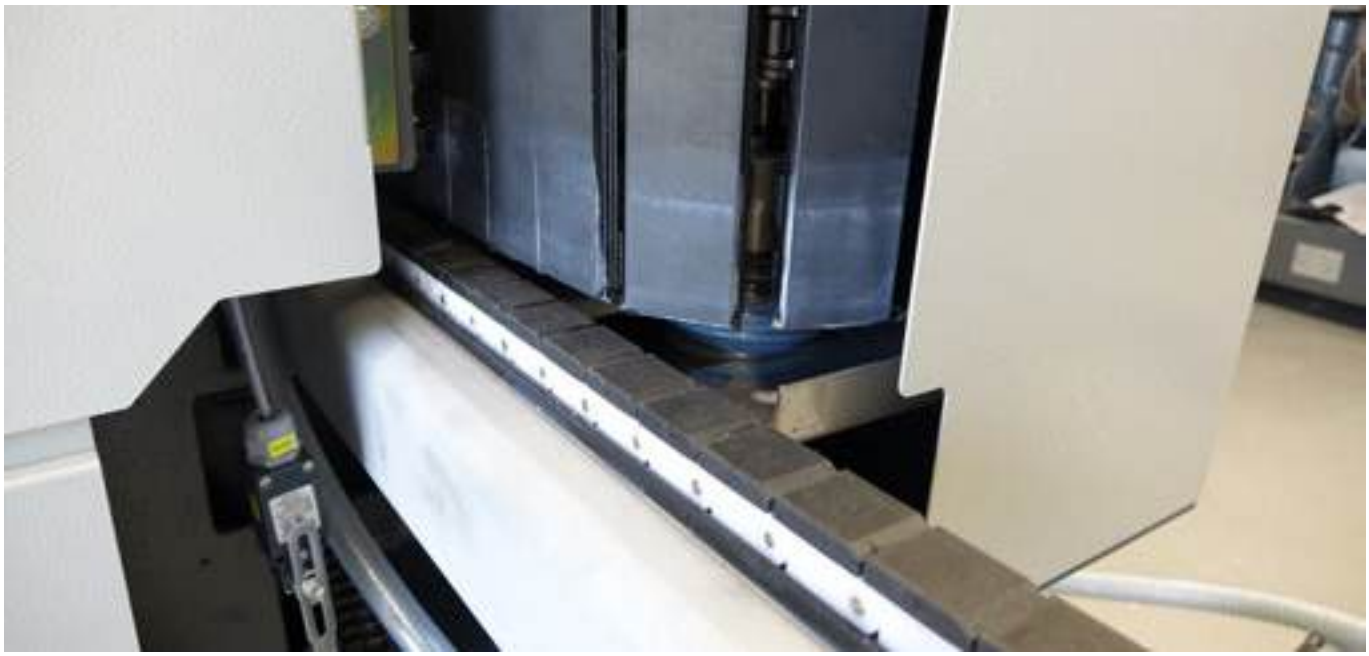
Without ball bearing to last longer

It consists of ground precision guides on which rubber-coated cast iron conveyors run, without ball bearings, ensuring low maintenance costs and excellent performance.



Change the beveling angle

Set by the operator via the human machine interface, the bevel angle is adjusted with extreme precision thanks to the worm screw system, thus avoiding potential errors due to manual intervention.



Glass in, glass out

The glass transportation on inlet and outlet arms is by means of Delrin made chains combined with rubber anti-friction pads. All parts can be easily replaced, ensuring low maintenance cost and fast change.



Centralized lubrication

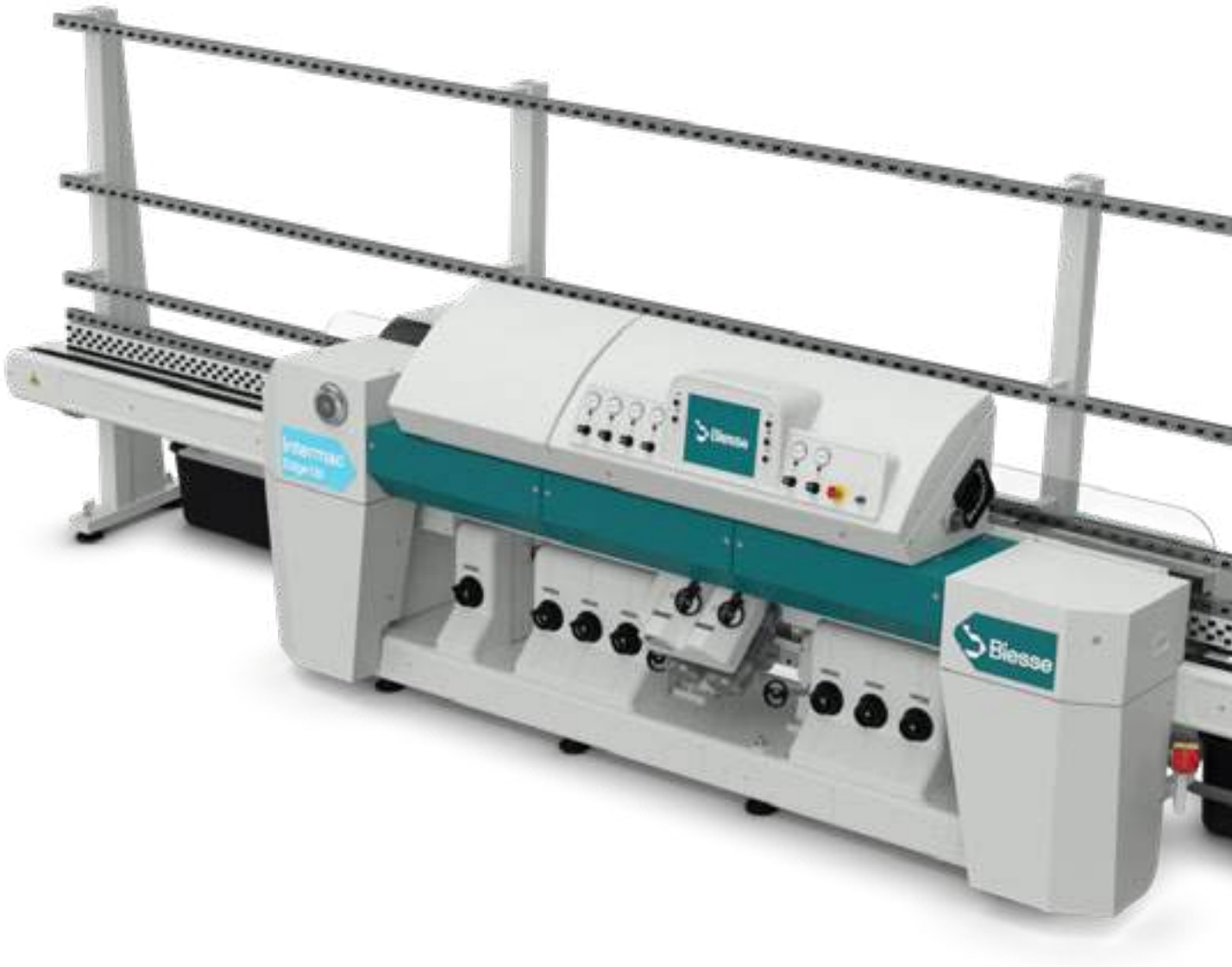
The durability of our bevellers is well recognized and, in this way, we simplify their maintenance. The lubrication pump allows for greasing the conveyors with timed automatic cycles.

Up

Single sided

Intermac

Intermac Edge Up S F50



Heavy duty tasks are not a challenge

Dual Motor conveyor system moves the haviest glass throught the machine.

Performance at low running costs

Conveyor pads sliding on rectified steel guide-rails without ball bearings.

Smooth and vibration free

High glass finishing quality: the spindles separated from the electrical motors and connected to same through a transmission belt, avoiding vibration.

Jumbo mode

Pedal to start and stop the movement of the inlet arm for loading up to jumbo size glass sheets.

Evolution “in big”

Intermac Edge Up S F50 versatility and reliability answer to contemporary architecture demand for large glass sheet processing.

Guaranteed response: **Remote Assistance** you can rely on

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Digitally adjusted

Glass removal adjustment directly from the control panel.

Wide screen control panel

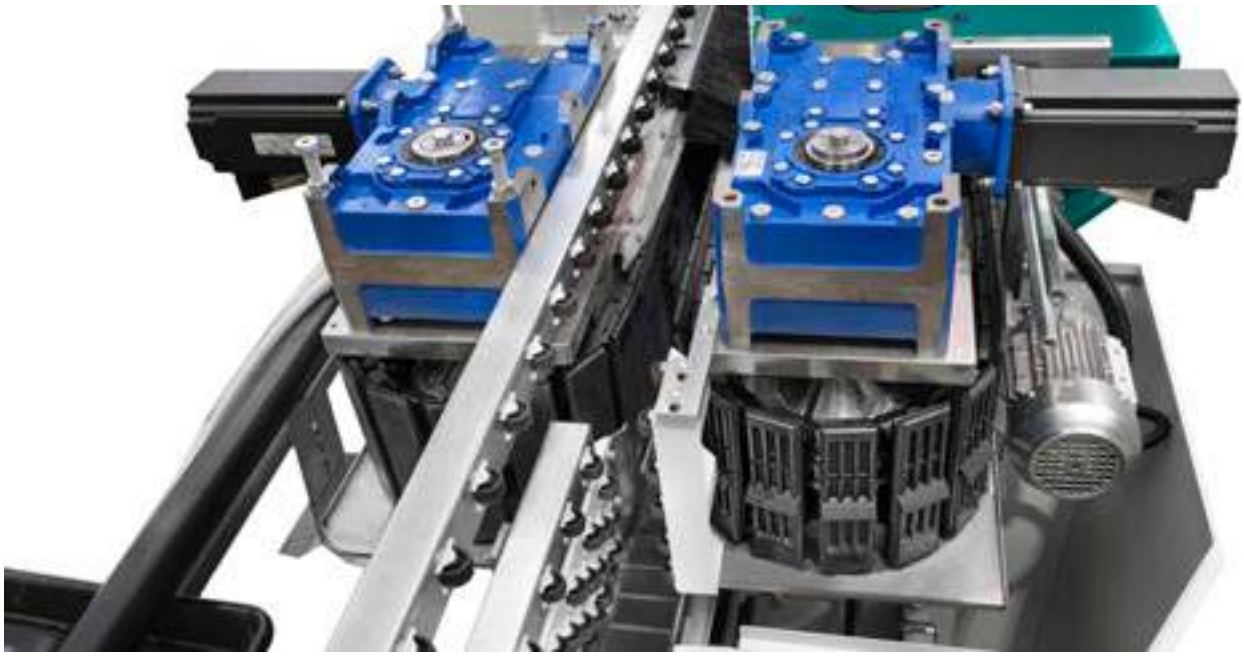
Big size and user-friendly touchscreen control panel.

Glass in, glass out

Conveyors chains are designed to be easily maintained through the use of state-of-the-art materials.

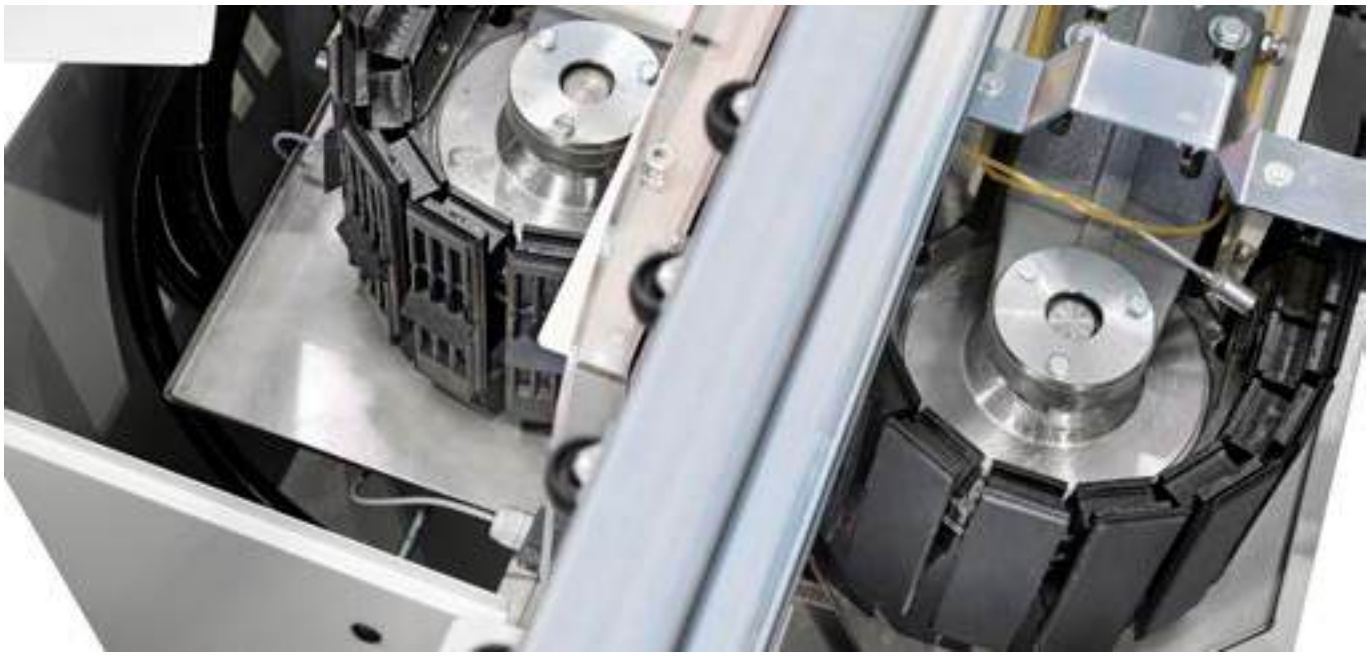
Heavy duty tasks are not a challenge

Unique in the market, our innovative glass conveying system is driven by two motors for greater mechanical efficiency of the system, which combined with the solid structure of the machine enables the handling of large thicknesses and large glass up to 350Kg per meter of belt. This results in a significant increase in machine performance.



Performance at low running costs

With more than 25 years of experience, this technology offers reliability, precision and exceptionally low operating costs. The glass conveyor features two of our reliable solutions: anti-friction and wear pads, which run on ground steel guides, and the conveyor system itself without ball bearings. The goal is a system that is less prone to wear and produces very little vibration.





Smooth and vibration free

The flat edge processing spindles are isolated from the electric motor, with power transmission handled by belt and pulley to minimize any potential vibrations. Lubrication is ensured by long-life grease, optimizing performance and durability.



Jumbo mode

The operator can pause the inlet arm via the foot pedal while the machine is running, safely load a new sheet of glass even a large one, which would not have been possible with the load in motion, and then restart the conveyor effortlessly with a simple action on the foot pedal.

Up



Digitally adjusted

The glass removal height can be precisely adjusted directly from the human machine interface, allowing for flawless accuracy without the need for any manual adjustments.



Wide screen control panel

A big 10,4” touchscreen control panel improves data display. It stands for user-friendliness, flexibility and functionality: bright colors, very intuitive icons, easily understandable drawings.

Single sided

Intermac

Intermac Edge Go S F35



Performance with low running costs

Conveyor pads sliding on rectified steel guide-rails without ball bearings.

Smooth and vibration free

High glass finishing quality: the spindles separated from the electrical motors and connected to same through a transmission belt, avoiding vibration.

Glass in, glass out

Inlet and outlet conveyors chains made of derlin links and anti-friction pads.

Full load capacity

Load capacity from 200 kg to 250 kg per meter of the conveyor, according to the different version.



The benchmark in the glass field

The Edge Go S F35 straight-line edgers are regarded as a benchmark in the glass field for their reliability, user-friendliness and for the quality of the end product.

As a result of ingenuity, gained in 70 years of R&D activity, these straight-line edgers are available in various configurations, from 6 to 11 spindles, for every need and for any glass fabricator.

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.



We keep it simple

User-friendly touchscreen control panel.

Grind&Stop and spindle selection

Ecofriendly functions for energy saving, less wear of mechanical parts and more comfort for the operator.

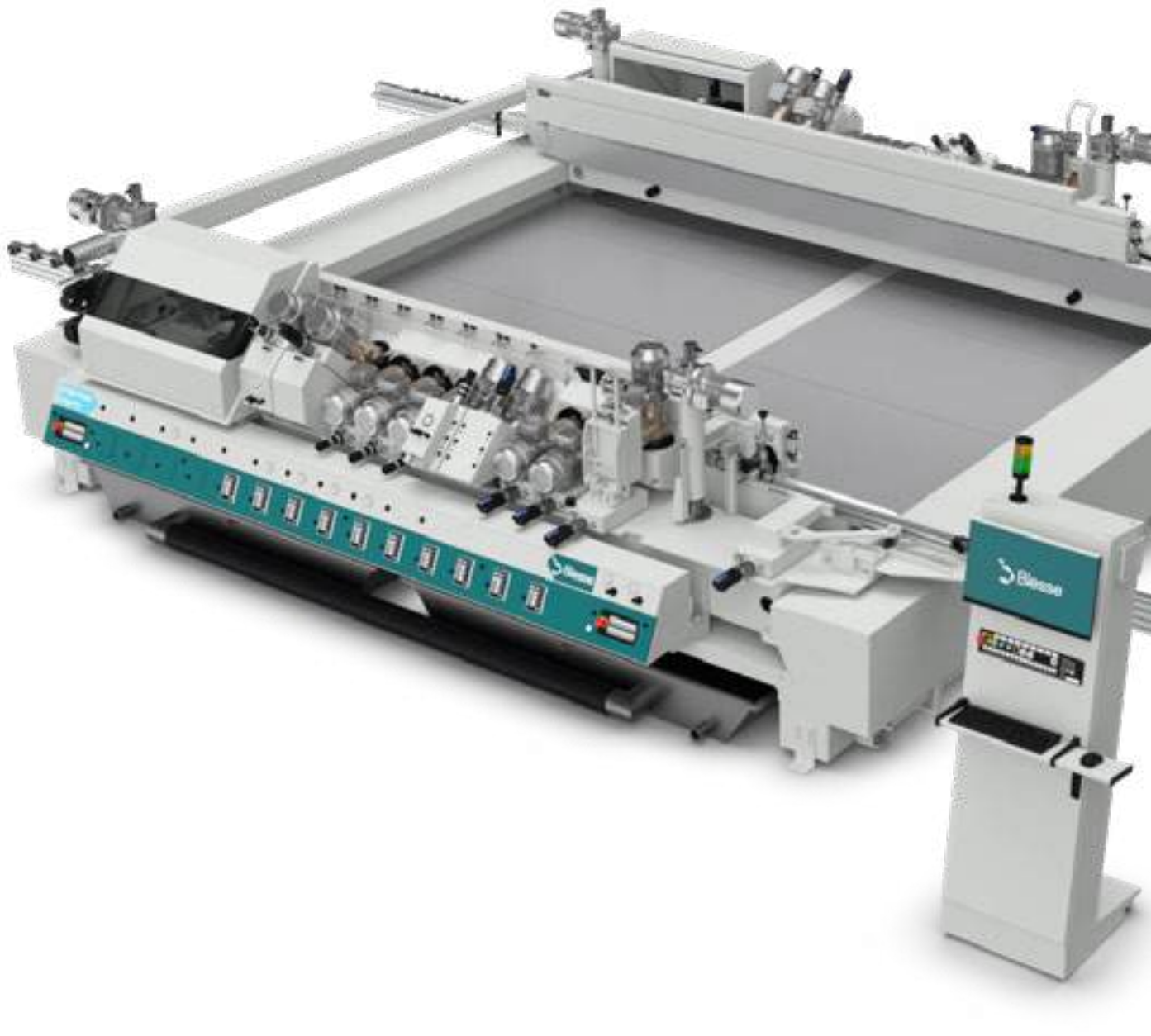
The glass washing add-on

Washing machine integrated in the machine outlet arm, fully managed by the machine control panel.

Double sided

Intermac

Intermac Edge Pro D F



Born to deliver quality

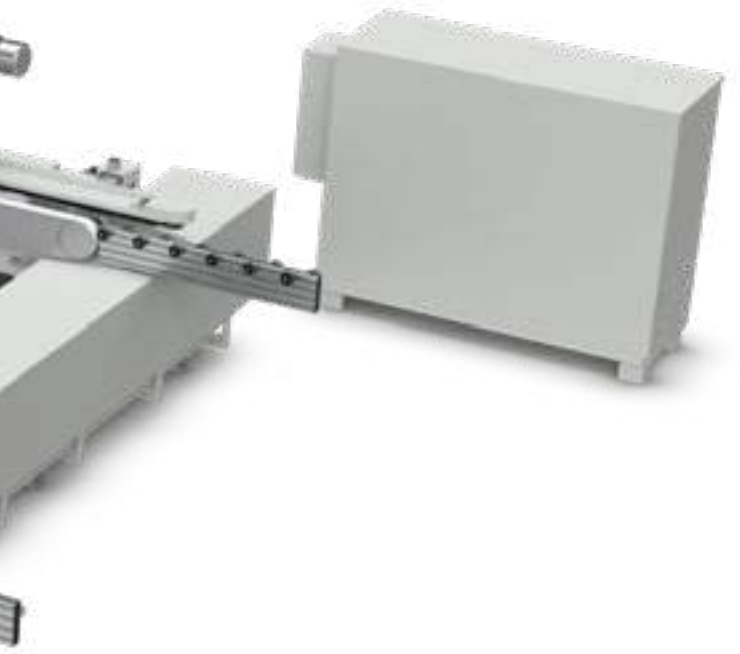
Precision and quality are guaranteed through our high-end machinery.

“Radiuser” is our solution

Our distinctive patented solutions that makes our edging machine simply unique.

We sew your dress

Extremely configurable, it’s built on the customer needs like a dress by the tailor.



High flexibility and productivity

Intermac Edge Pro D is the range of machines and systems for double edge grinding, ideal for working on glsss for structural facades, internal structural elements, furniture, household appliances and solar panels where reliable and customizable solutions are required and that provide results of the highest quality, precision and total flexibility with minimum operator intervention.

It's the solution for processing flat edge with standard 2mm arris or 15 mm with 45° profile, ideal for small, medium and large edgeworks with flexible production: from structural glass, partition walls, balustrades and steps, shower enclosures, furniture.

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.



Reliability over time

Biesse machines guarantee long life, allows working up to 3 shifts per day and require minimal machine maintenance by the operator.

The User Interface

Essential, friendly and highly productive UI.



Born to deliver quality

Known as the top brand double edger machine, Intermac Edge Pro D F gives the customer the best result that can be achieved in terms of edge quality and brightness. Glass is perfectly squared on all sides thanks to the solid and reliable squaring system placed on both machines that can adjust the glass position during high production series as well as on short ones.



The User Interface

Performing every step is very easy and effective. Just setting up all process parameters such as tools type and working depth then activate the program and work keeping every part of the process under control. Diagnostic messages are sent on top of the page for supporting the operator during production cycle.



“Radiuser” is our solution

The radius cutters are a patented Biesse device that does round corners either matte or polished. The tool cone can host both diamond and polish wheel. With this innovative system it is possible to do it while the glass is being processed in the machine, without the need of an additional machine, which results in a drastic saving of time.



We sew your dress

You can customize machine dimensions, machines positioning, glass transferring system between the 2 machines, loading and unloading systems, numeber of wheels for each side, and more. Innovative systems such as the diamond wheel presetter, the automatic management of polishing pressures, the motorized reference rollers and other optional features allow to reduce the line setting times, simplifying their use and consequentially boosting the productivity.



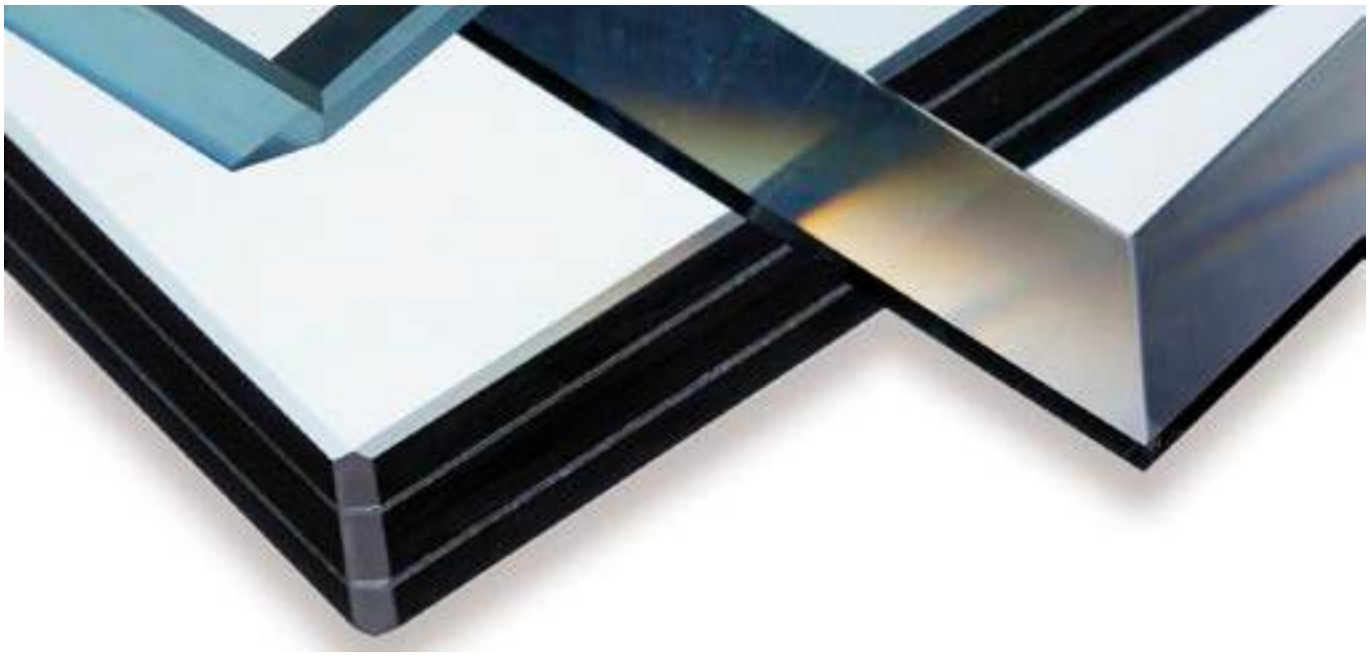
Reliability over time

Each individual component has been designed and sized taking into account the continuous workload that the machine have to satisfy. The most important aspects that differentiate us from competitive brands are the resistance of the mechanical, pneumatic and electrical components to water, and the reliability of the parts most subjected to stress such as the spindles or the glass transport belt system. Carrying out the appropriate scheduled maintenance guarantees the long life of the machine.

45° arrising

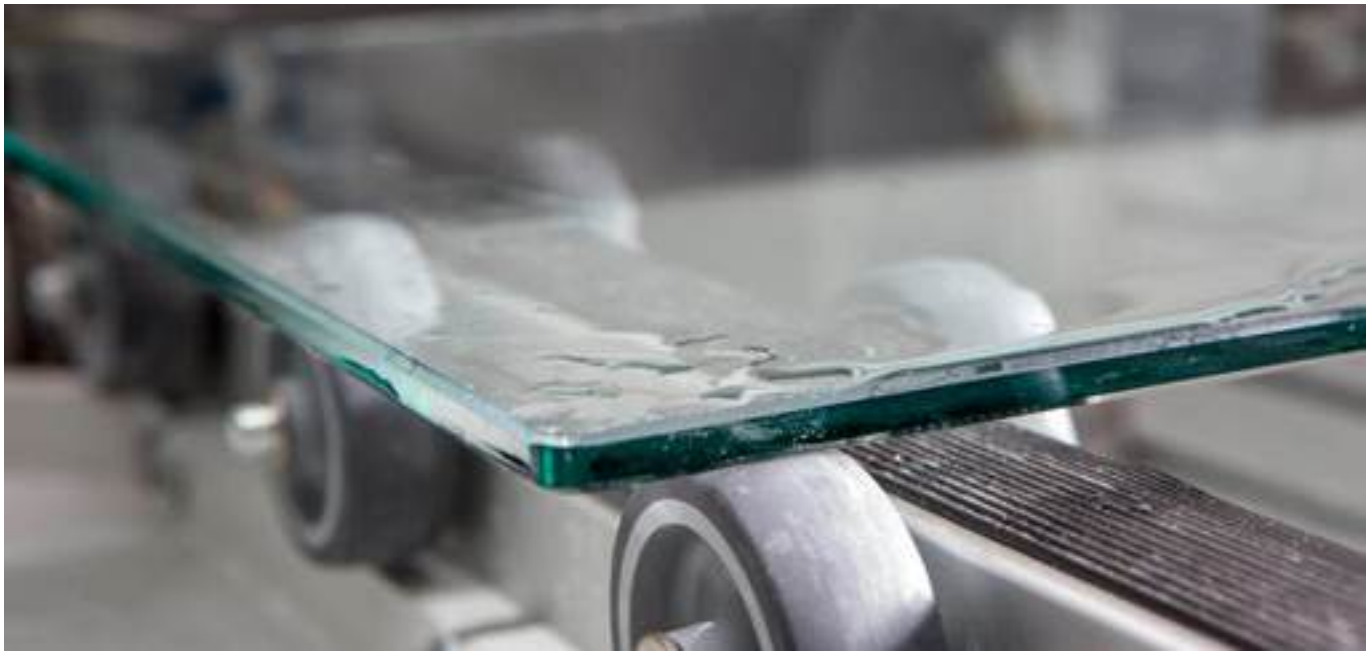
One of the most challenging machining operations is the 45° fillet because of the extensive surface area of the machining on the glass.The result is simply outstanding.





Glass up to 50mm thickness

High quality thick laminated glass finishing up to 50mm this is ensured by an extremely solid and vibration-free structure together with a very high configurability of each individual spindle to achieve the best result at each step.



Up to 5mm radius

An exclusivity that allows you to make perfect 5mm radius edges with speed, precision and quality without using another machine.

Intermac

Intermac Edge Pro Q 408



Diversify your production

Intermac Edge Pro Q 408 delivers unmatched flexibility and productivity for batch-one and low-batch production, setting a new standard by outperforming traditional polishing machines.

Get in shape

Unlike conventional double-edging machines,Intermac Edge Pro Q 408 can process out-of-square glass and shaped pieces as standard, expanding its range of applications significantly.

All sides in a single machine

Intermac Edge Pro Q 408 features a considerably smaller footprint compared to a traditional double-sided edging line, all while efficiently processing all four sides of the glass in a single machine.

Any size, any finish

Designed for flexibility, the machine makes it possible to process glass in various sizes, thicknesses, and shapes, with the added capability of applying different finishes to each side of the glass automatically.



Around the glass

Intermac Edge Pro Q 408 is an edge polishing machine capable of processing all four sides simultaneously.

Engineered to handle out-of-square and shaped glass, it features revolutionary heads with 8 cup wheels each, ensuring a perfectly brilliant finishing edge.

Its batch-one design allows for the sequential processing of different glass sizes and thicknesses without the need for manual adjustments or intervention.

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.



Make it shine

Equipped with 8 wheels on each head, the system ensures a consistent, brilliant finishing quality, comparable to traditional polishing machines.

Repeatable precision

The machine is equipped with features such as dimensional control and an automatic tool wear system, designed to ensure exceptional precision and repeatability in processing glass, even for larger sizes.

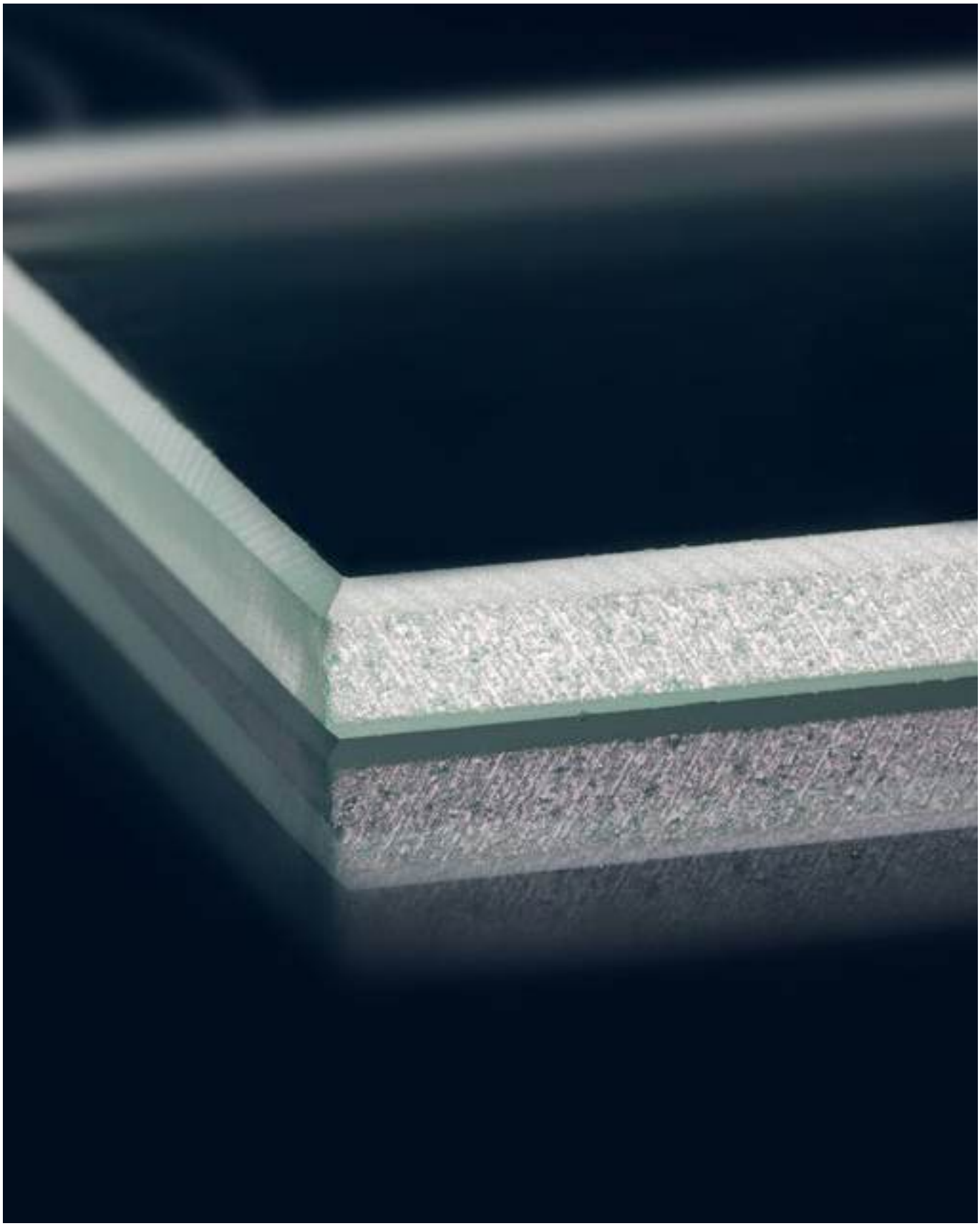
As easy as A B C

An intuitive human machine interface and onboard programming system ensure seamless interaction with the operator, enabling straightforward programming of even the most complex operations.



Polished Edge

The primary application of the Intermac Edge Pro Q 408 is the production of polished-edge glass. Its configuration with 8 wheels ensures a flawlessly finished polished edge and threads, achieved through dedicated diamond and polishing wheels.



Industrial Finish

An industrial finish can be achieved by deactivating the dedicated polishing wheels, thereby increasing processing speed and boosting productivity. Using diamond cup wheels, this system delivers an industrial finish comparable to that of peripheral wheel systems.

Drilling

Range of solutions for boring,
countersinking and milling glass.



Drill

Recap

Discover
all our drilling
machines

biesse.com

Boring

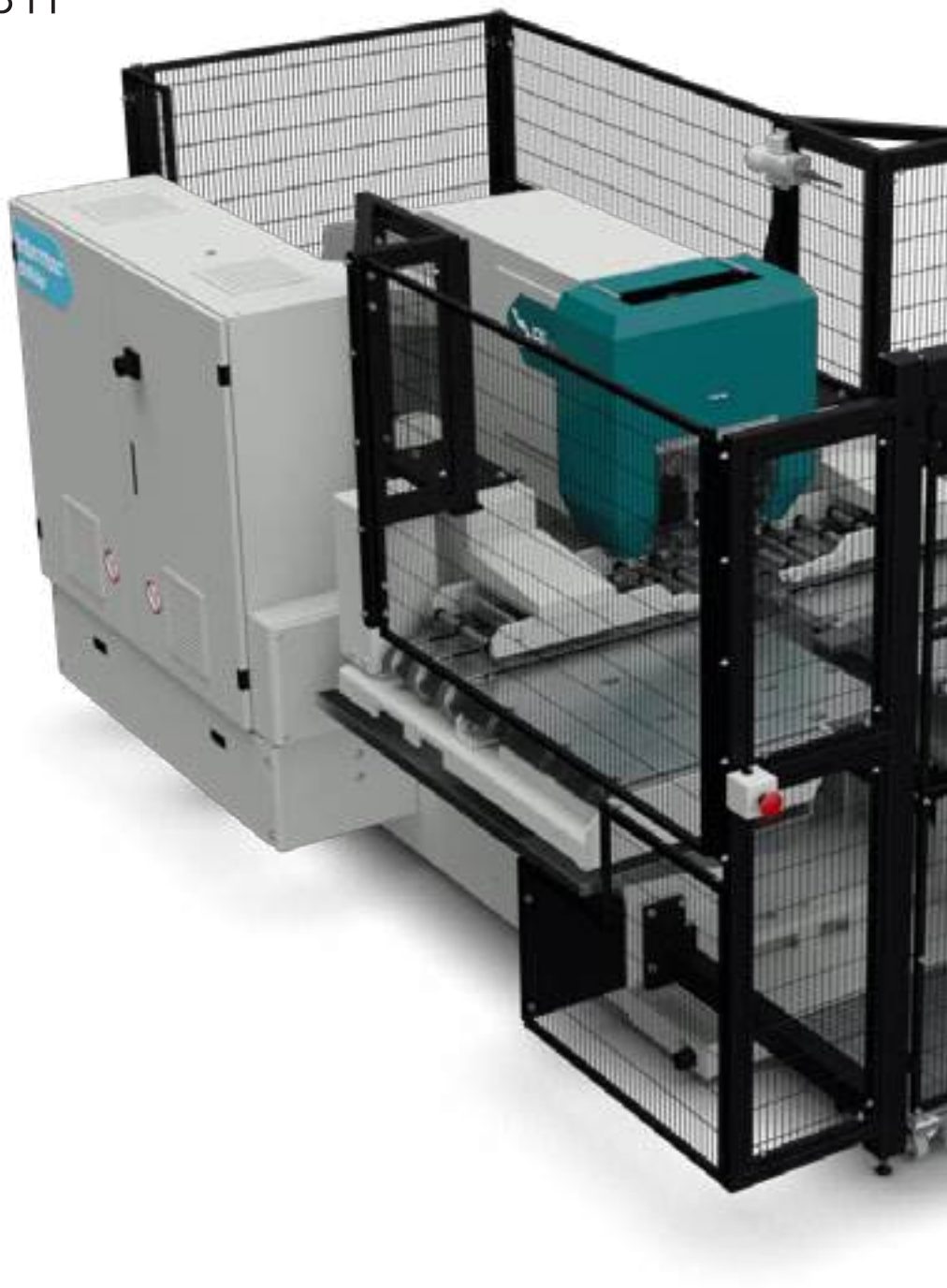
Product Brand	Model	Segment
Intermac	**Intermac Drill Pro** B H	Pro
	Intermac Drill Up B H	Up
	Intermac Drill Go B V	Go

Waterjet

Product Brand	Model	Segment
Intermac	**Intermac Drill Pro** J H	Pro

Intermac

Intermac Drill Up B H



Automatic Multi spindle heads

Thanks to opposed multi spindles and a wide range of tools, Intermac Drill Up B H performs all machining operations without manual intervention or reworking.

True batch-one production

With automated glass handling optimization, productivity is unaffected by variations in glass size, thickness and position of the machining operations.

No vibration

Intermac Drill Up B H is precisely engineered to ensure durability through extended work shifts and absolute rigidity for a vibration-free processing quality.

Any kind of hardware

Intermac Drill Up B H can perform various machining operations and thanks to its extensive tool selection, all required machining processes are completed seamlessly, with no need for manual intervention or additional rework.



Sprinting toward perfection

Intermac Drill Up B H are glass working NC drilling centres capable of performing drilling, countersinking and milling operations on flat glass sheets, including “out of square” pieces.

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Up

Glass handling system

A patented, advanced dynamic vacuum belt system securely holds the glass, ensuring optimal finishing for all machining operations, even on low-E glass.

Compact and flexible

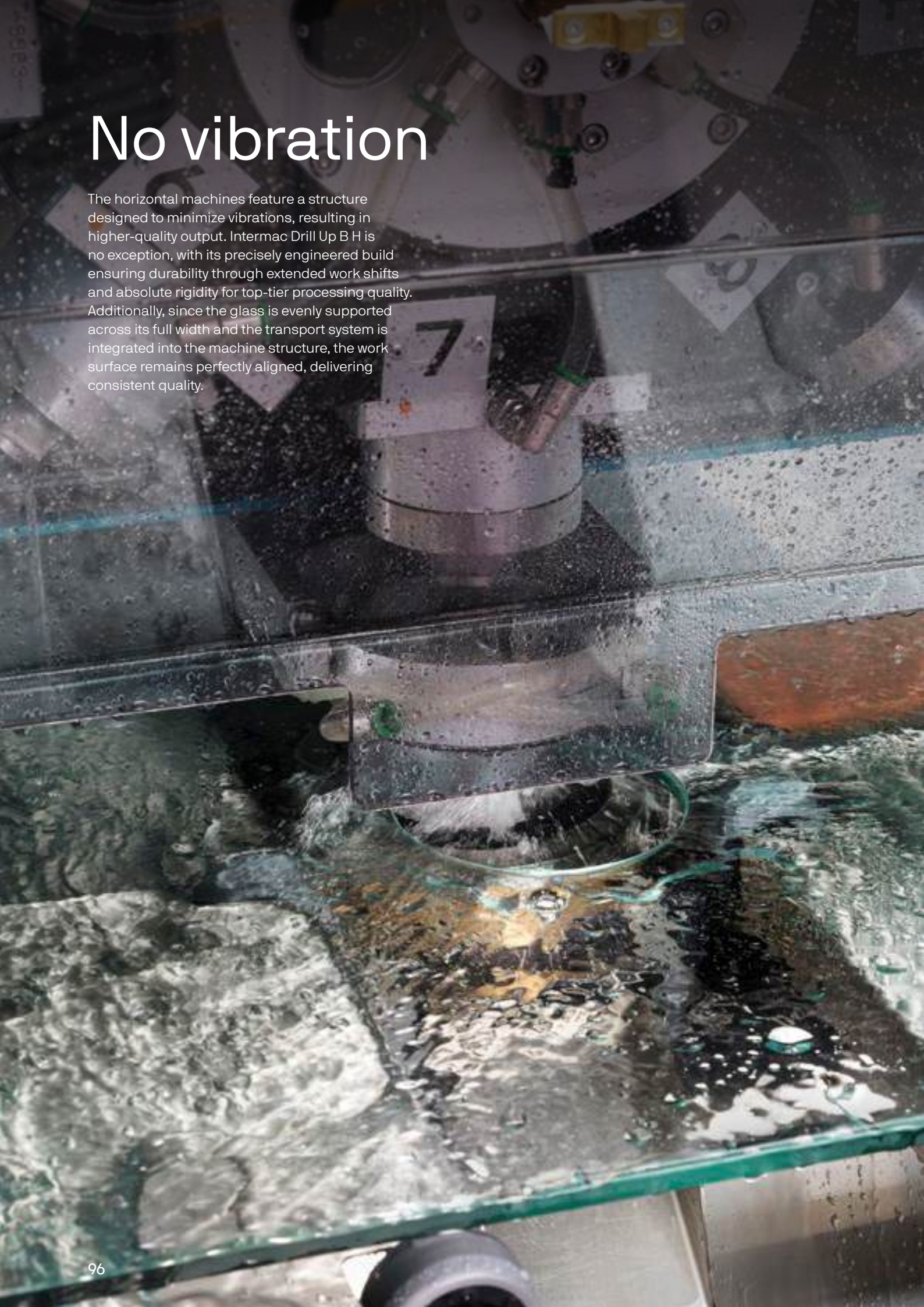
A compact, safe and flexible machine, with automatic handling capability that can be integrated in line, in example with a washing machine, to avoid additional handling and streamline the production flow.

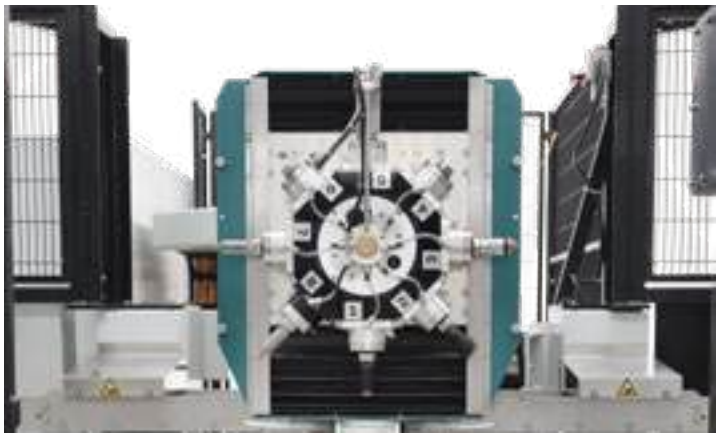
User friendly human machine interface

The advanced human machine interface software, specifically developed for flat glass processing, includes an easy-to-use CAD-CAM programming tool with a complete catalogue of common geometries and, thanks to its networking features, the machine can be easily integrated into a line configuration and interfaced with supervisor software.

No vibration

The horizontal machines feature a structure designed to minimize vibrations, resulting in higher-quality output. Intermac Drill Up B H is no exception, with its precisely engineered build ensuring durability through extended work shifts and absolute rigidity for top-tier processing quality. Additionally, since the glass is evenly supported across its full width and the transport system is integrated into the machine structure, the work surface remains perfectly aligned, delivering consistent quality.





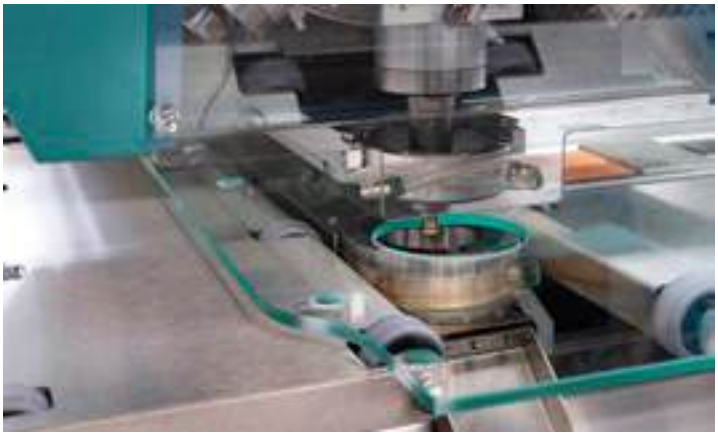
Automatic Multi spindle heads

Comprising the two opposing multiple-spindle heads, each carrying eight spindles, the machine can perform all machining operations automatically, with no need for manual intervention or reworking. The macchine can be equipped with Super Spindles as optional, specifically designed for high-speed milling up to 12.000 RPM, enabling faster cycle times, extended spindle lifespan, and enhanced finishing quality. The water system provides clean cooling water for both spindles and tools, while the machine's rapid tool change ensures fast, consistent, high-quality processing.



True batch-one production

With automated optimization of glass handling, productivity remains consistent regardless of variations in glass size, thickness, or machining operation positions. The machine is capable of processing any glass shape with at least one straight edge, accommodating both small and large sizes. As a true batch-one system, it offers zero setup time, automatically adjusting to different glass pieces, even when each one is unique thus mantaining a constant production flow.



Any kind of hardware

Intermac Drill Up B H performs a range of machining operations, including drilling, milling and countersinking, with unique speed and flexibility. Its multi-spindle technology ensures rapid tool changes and the combined cutting cycles enable a quick processing, even on irregular geometric shapes. With a wide array of tools readily available onboard, the machine performs all operations required to process glass without manual intervention or rework.



Compact and flexible

Intermac Drill Up B H requires minimal floor space, making it suitable for installation in compact areas. It can also be linked to a washing machine, making it a complete workflow solution. Safety features, including an enclosure within a microswitch-controlled metal fence, laser scanners and intelligent glass processing control, ensure safe operator interaction by preventing collisions during machining operations, while providing an ergonomic environment for setup and maintenance.



Drilling and countersinking

Drilling is performed by two opposed, multi-spindle drilling head. The hole is drilled for ⅓ of the depth with the lower spindle, and for ⅔ of the depth by the upper spindle, granting a cleaner job and a faster execution time.

Countersinking operations, if requested by the program, are executed in fully automatic cycle without manual operation and performed with both machine's heads.

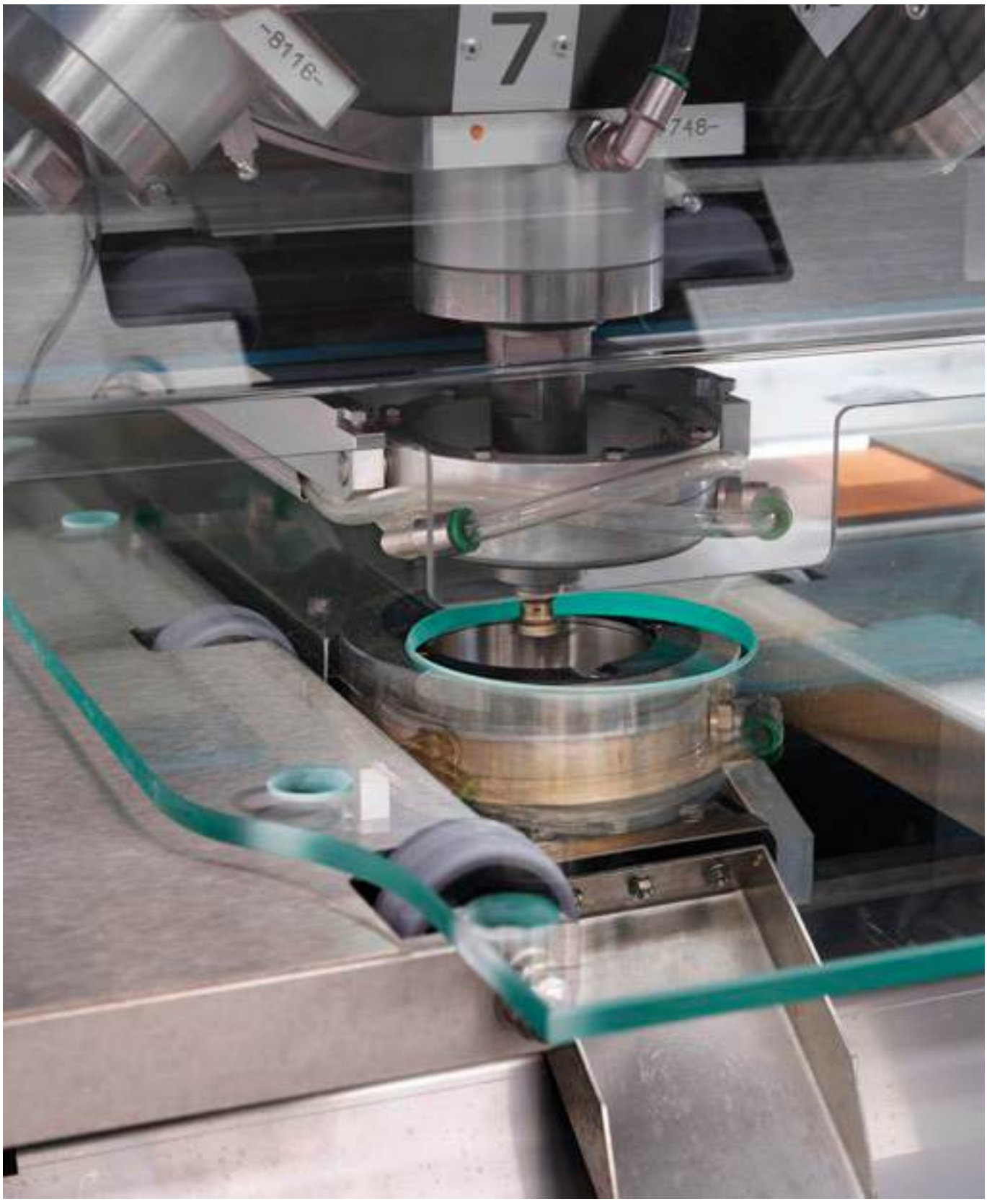


Milling

The machine can process various shapes of glass in thicknesses from 3 to 25 mm at speeds up to 15.000 rpm thanks to the Super Spindle, while maintaining vibration-free operation to ensure a flawless finish quality.

Finishing

After rough milling, finishing operation is performed with a trapezoidal tool which removes any sharp cutting edges.



Up

Intermac

Intermac Drill Go B V



Compact footprint and versatility

A single station for multiple tasks.

Powerful core elements

2 spindles for drilling on both sides at once for an extremely clean drill.

Double tool storage

Speed, precision, and productivity in perfect harmony, all made possible by the 8-position rack on each workhead.

Fast and precise

Sliders on guides and motors for unmatched precision, smoothness, and efficiency.

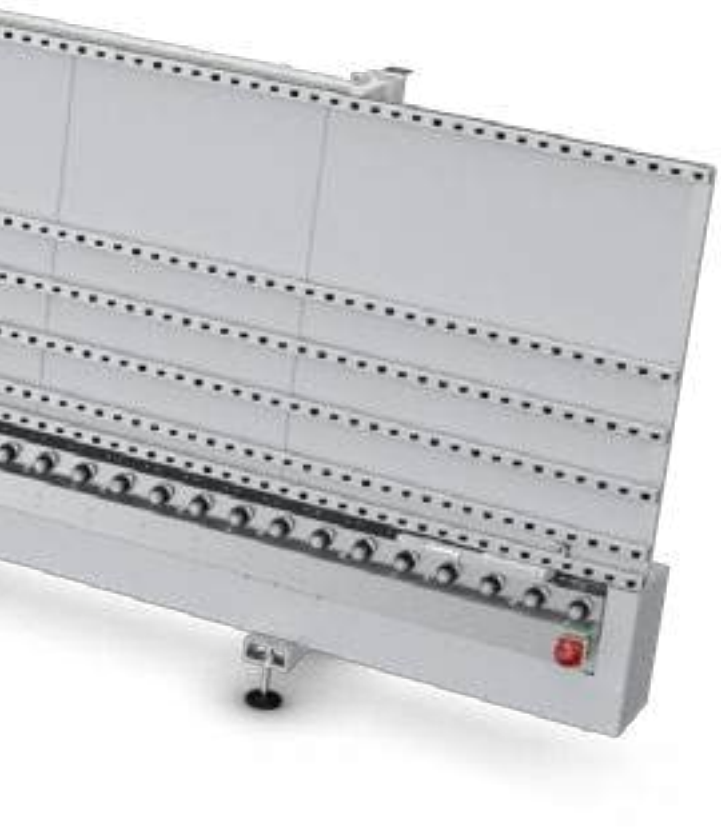
Fast, accurate and user-friendly

Specifically designed for glass door manufacturers, this machine effortlessly processes all types of notches and holes, making it ideal for producing balustrades, guardrails, and shower enclosures. Starting with perimeter-processed glass, it delivers a flawless, high-quality finished product.

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Glass securely hold in place

Precise, vibration-free glass handling technology.

Effortless Programming, Seamless Connectivity, Maximum Production Efficiency

The interface is extremely easy and intuitive, making operations simple and fast.

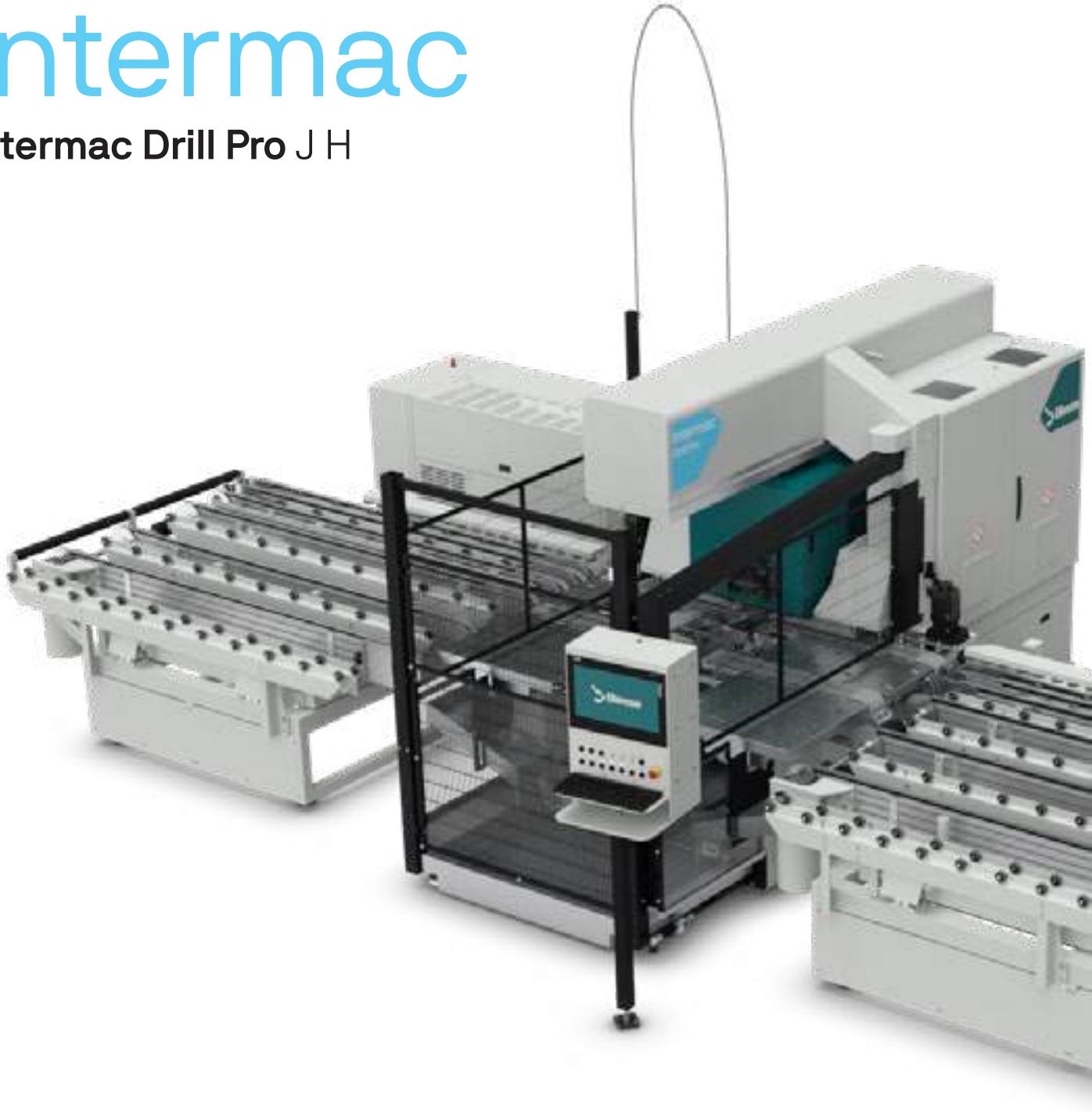
Make the parallelograms at work

Flawless hole and notch creation with easy programming.

Go

Intermac

Intermac Drill Pro J H



Spin faster, finish better

Its advanced opposed multi-spindle design with waterjet functionality and extensive tool range, enables Intermac Drill Pro J H to automate all machining processes, ensuring flawless results without manual intervention.

Precision flow

With its hybrid waterjet and tool system, the machine provides a versatile approach to glass processing, optimizing productivity and operational flexibility.

Zero setup, infinite potential

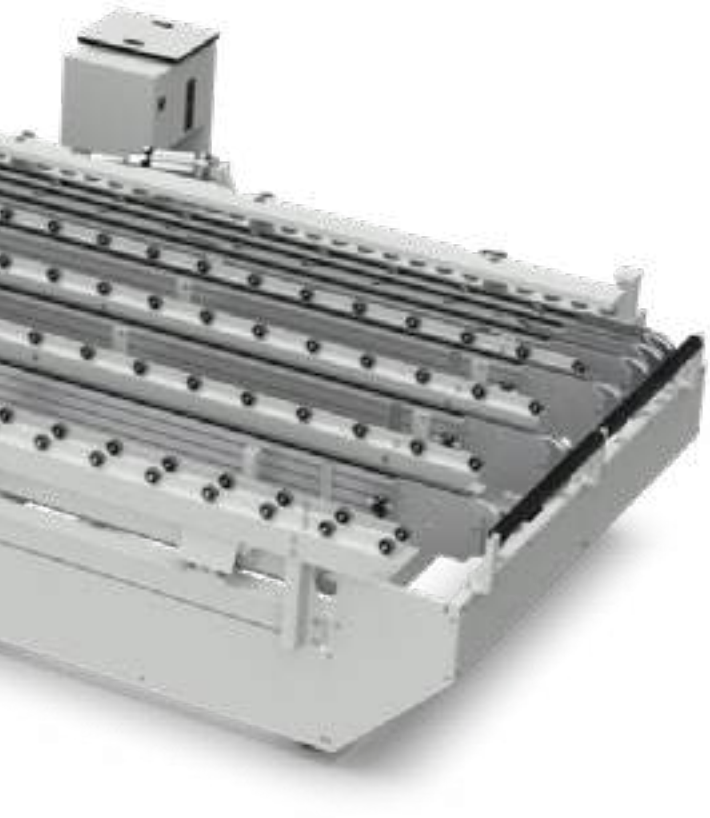
The automated glass handling system guarantees consistent performance, even when dealing with diverse glass sizes, thicknesses, and machining operation positions.

Fluid production

Intermac Drill Pro J H is a high-performance NC drilling center, designed for flat glass sheets, including irregularly shaped pieces.

It handles drilling, countersinking, milling, and waterjet cutting with precision and flexibility.

With two pairs of heads and a double working station, it can process two glass pieces simultaneously, dramatically increasing production capacity while maintaining exceptional quality.



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.



A wide range of glass shapes

With its versatile tool selection and waterjet system, Intermac Drill Pro J H executes multiple machining operations effortlessly, delivering precise results without requiring manual adjustments or additional rework.

Hold Tight, move right

With its double processing station and patented dynamic vacuum belt system, the machine holds glass securely, doubling productivity while delivering optimal finishing for all machining tasks, including low-E glass processing.

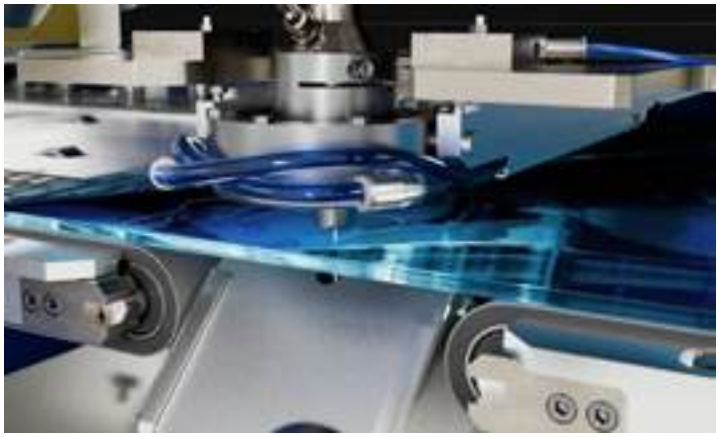
Integrated, safe, productive

Offering compactness, safety, and flexibility, this machine with automatic handling capabilities can be integrated directly into a production line to reduce handling time and simplify the production workflow.



Spin faster, finish better.

Featuring four multi-spindle heads with eight spindles on the bottom and seven spindles plus a waterjet system on the top, the machine ensures fully automated processing, eliminating the need for manual adjustments or rework.
The high-rotation Super Spindles, optimized for speeds of up to 12.000 RPM, deliver faster cycle times, extended spindle life, and high finishing quality. A dedicated water system provides clean cooling to spindles and tools, while the rapid tool-change mechanism guarantees seamless, precise production.



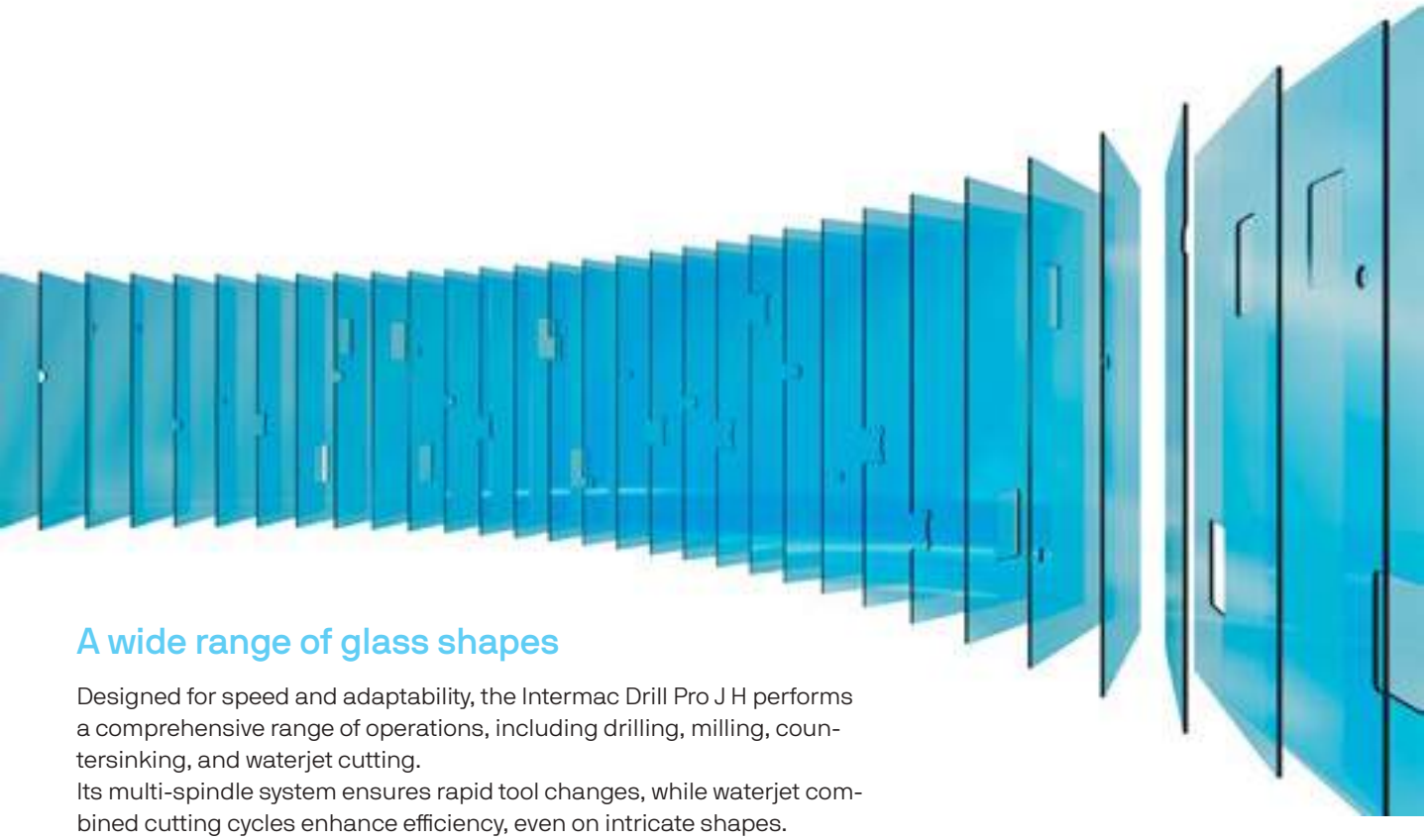
Precision flow

Thanks to the integration of combined waterjet and tool cycles, the machine significantly enhances productivity and flexibility.
For shaped hardware geometries and notches, the cutting phase is executed by a fast and precise waterjet system, seamlessly followed by a classic tool system for finishing operations. In drilling tasks, where tools outperform waterjet systems, the opposed-head system ensures flawless boring and countersinking in a single operation.



Zero setup, infinite potential

The machine's automated glass handling optimization guarantees steady productivity, regardless of variations in size, thickness, or machining positions. It can handle any glass shape with at least one straight edge, processing both small and large formats. Designed as a batch-one system, it offers zero setup time, seamlessly adapting to unique glass pieces to sustain a continuous production flow.



A wide range of glass shapes

Designed for speed and adaptability, the Intermac Drill Pro J H performs a comprehensive range of operations, including drilling, milling, countersinking, and waterjet cutting.
Its multi-spindle system ensures rapid tool changes, while waterjet combined cutting cycles enhance efficiency, even on intricate shapes.
With its extensive onboard tool selection, the machine delivers seamless glass processing without manual intervention or reworking.



Hold Tight, move right

The patented advanced dynamic vacuum belt system securely holds and moves glass with precise, repeatable positioning during transport and processing. By holding the glass from one side, the system enables seamless processing of low-E and coated glass. The belts are divided into sectors to enhance vacuum efficiency and are automatically activated based on the glass shape and machining position, maximizing holding power and ensuring superior finishing. The double processing station, paired with two sets of opposed heads, allows for simultaneous machining of two parts or effectively distributes the workload when processing oversized components.

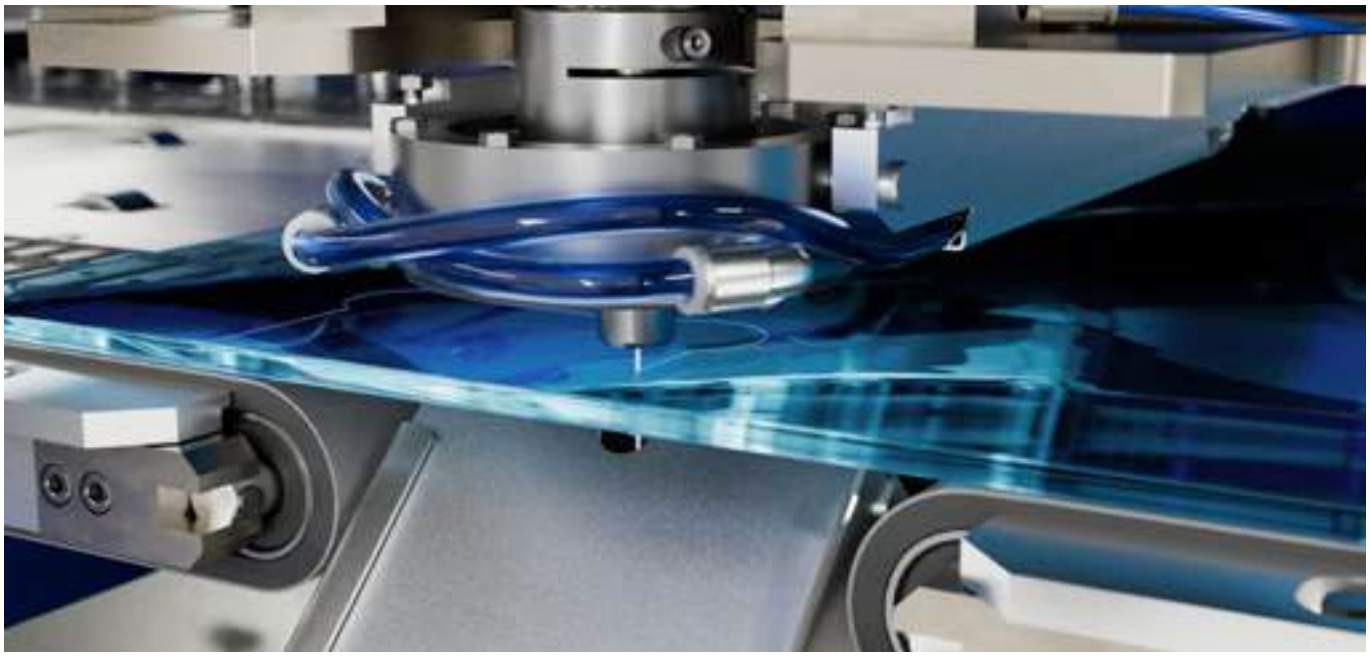
Milling and finishing

The machine can process various shapes of glass in thicknesses from 3 to 25 mm at speeds up to 15.000 rpm thanks to the Super Spindle, while maintaining vibration-free operation to ensure a flawless finish quality.
After rough milling, finishing operation is performed with a trapezoidal tool which removes any sharp cutting edges.



Waterjet cut

Using a high-pressure stream, waterjet efficiently cuts through glass, enabling the processing of intricate geometries with ease.
Its speed and precision enhance productivity, making it a valuable asset for demanding production needs.
The finishing operations are performed with standard milling tools mounted on the spindle.



Drilling and countersinking

Drilling is performed by two pairs of opposed, multi-spindle drilling head. The hole is drilled for ⅓ of the depth with the lower spindle, and for ⅔ of the depth by the upper spindle, granting a cleaner job and a faster execution time.

Countersinking operations, if requested by the program, are executed in fully automatic cycle without manual operation and performed with both machine's heads.



Multi-machining

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



Multi

Recap

Discover
all our multi-machining
machines

biesse.com

Shape

Product Brand	Model	Segment
Intermac	**Intermac Multi Pro** S H5S	Pro
	Intermac Multi Pro S H3X	Pro
	Intermac Multi Up S H3S	Up
	Intermac Multi Go S H3S	Go
	Intermac Multi Go S H4S	Go

Mill

Product Brand	Model	Segment
Intermac	**Intermac Multi Pro** M V0X	Pro
	Intermac Multi Up M V0X	Up
Forvet	**Forvet Multi Pro** M H0S	Pro
	Forvet Multi Pro M HJS	Pro

Intermac

Intermac Multi Pro S H5S



Beveling without limits

A axle ensure a 0 ° to 90° tool inclination.

Smoothing your movements

C-axle can rotate infinitely for best results in advanced machining operations.

BEST transmission IN CLASS

The most reliable axes transmission ever.



Hystorical exclusivity

Biesse glass machines have always been pioneers of innovative and highly acclaimed solutions for realizing every glass applications.

The A axes allows a full 0 to 90° beveling angle as well as writing on the side, engraving bubbles, finishing 3d surfaces and every other process tha can be achieved by a full axes interpolation.

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

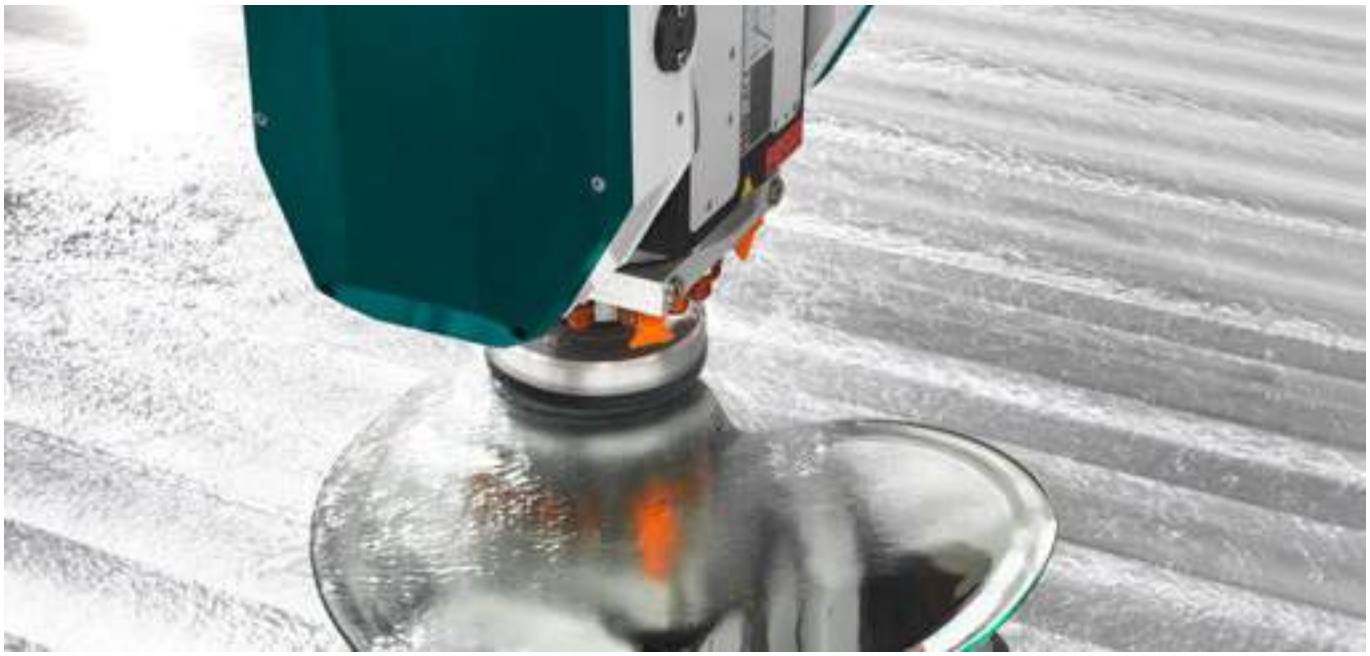
A revolutionary interface enhances the user experience of Biesse machines, streamlining production processes like never before. This innovative system achieves its goal through improved usability, clear communication, and intuitive guidance, empowering operators to work more efficiently and with greater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

Spindle power with no compromises

Powerful and reliable spindle.

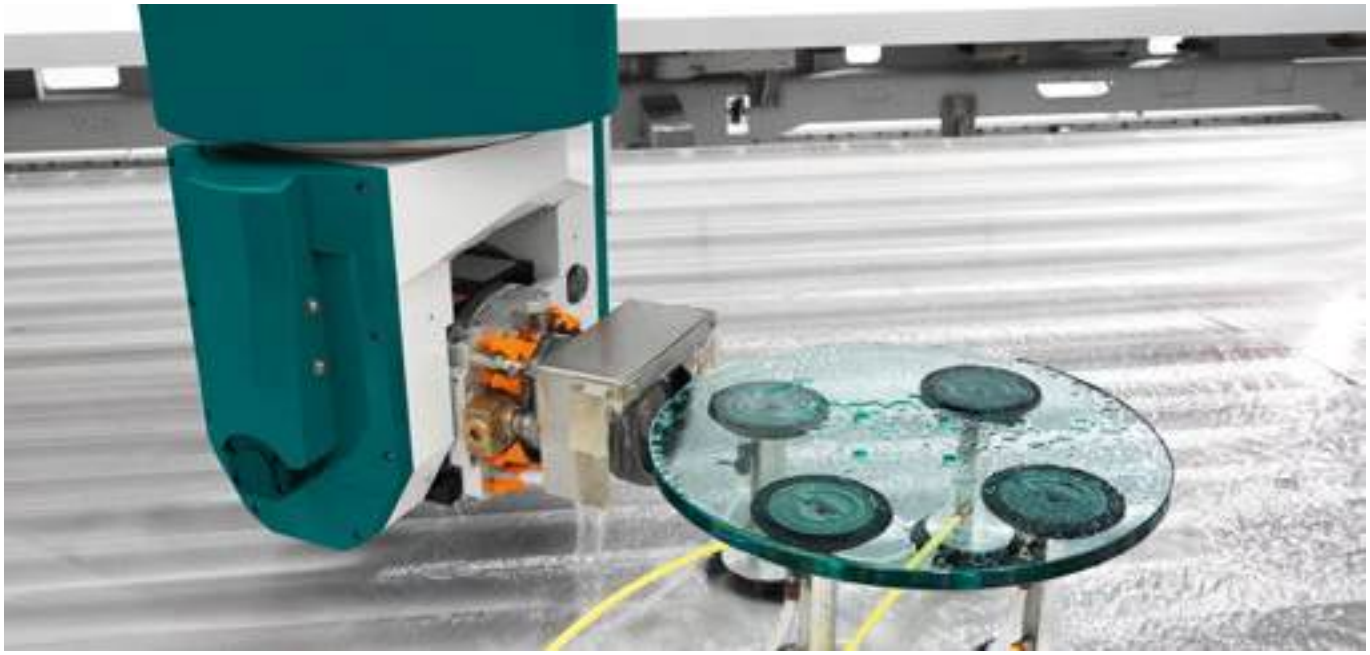
All tools you need

Racks can be configured for reaching a high tools number on machine.



Beveling without limits

You can perform any type of beveling as well as curved glass finishing. Processing those task demands an extremely precise axis transmission, accurate tools measurement and an advanced Cad cam software. Intermac Multi Pro S will drive you through all this.



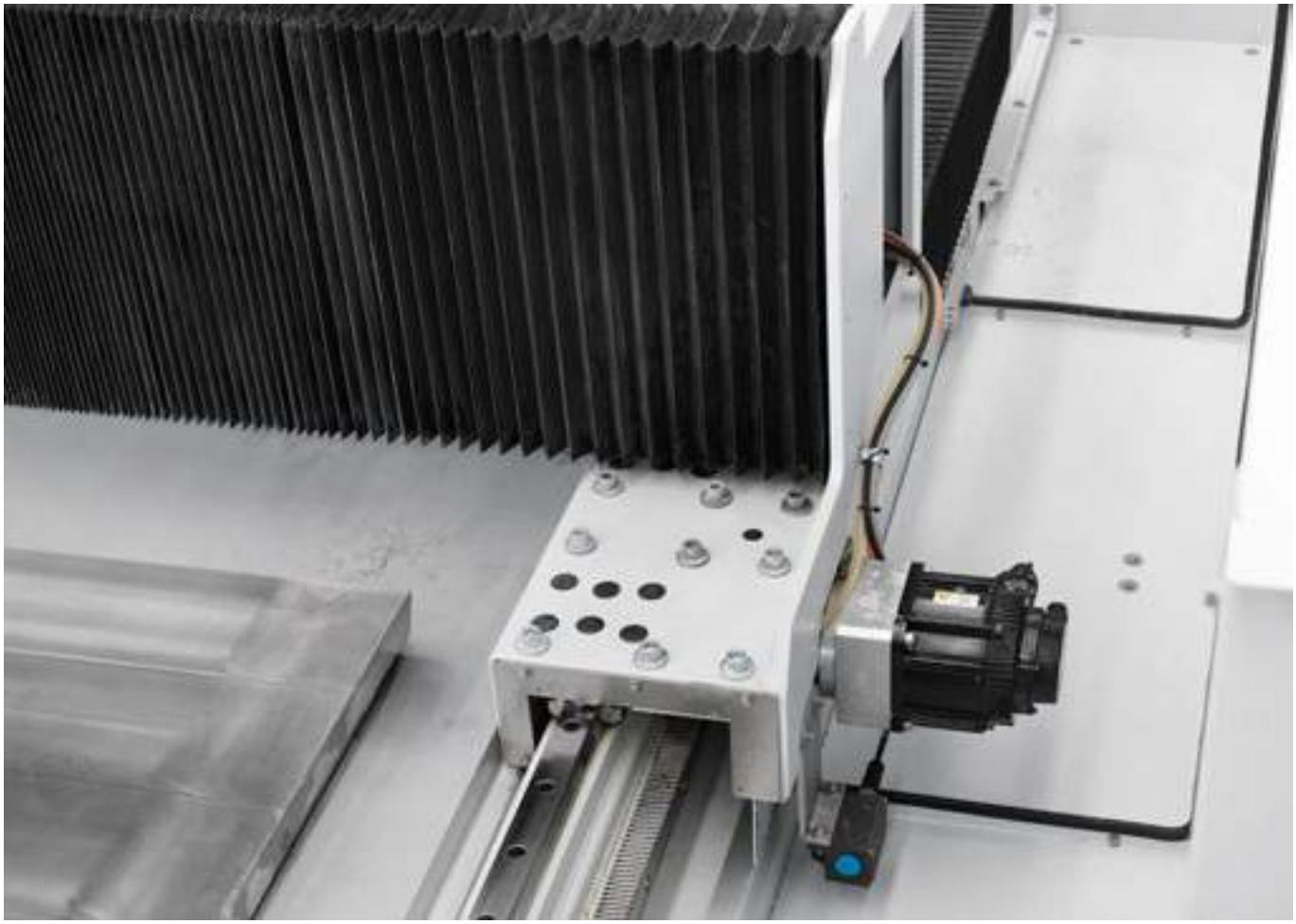
Smoothing your movements

Continuous head rotation makes movements very smooth, thanks to an advanced electric and fluidic distributor system. This allows us to see no signs of change of direction on the glass. Few processes that require continuous rotation are bubbles, bath soap dishes, lens finishing, but generally any processing will benefit from this technology.



Spindle power with no compromises

We give you 15Kw of available power for every task. The cartridge type spindle is designed to provide maximum power and reliability, making the Intermac Multi Pro S the best and powerful all-around solution.



BEST transmission IN CLASS

Ball screws, linear guides, toothed racks are just a few of the technical flagship solutions on board. Automatic greasing system gives the customer the certainty of a maintained mechanic, supported by the periodical maintenace done by the operator.

Effortless Tooling

We have designed our machine with precision and efficiency not only in machining operations but also in tooling setup and maintenance. With advanced automated systems designed to streamline tooling setup and redressing processes, this machine ensures that tools remain sharp and ready for optimal performance without manual intervention.





All tools you need

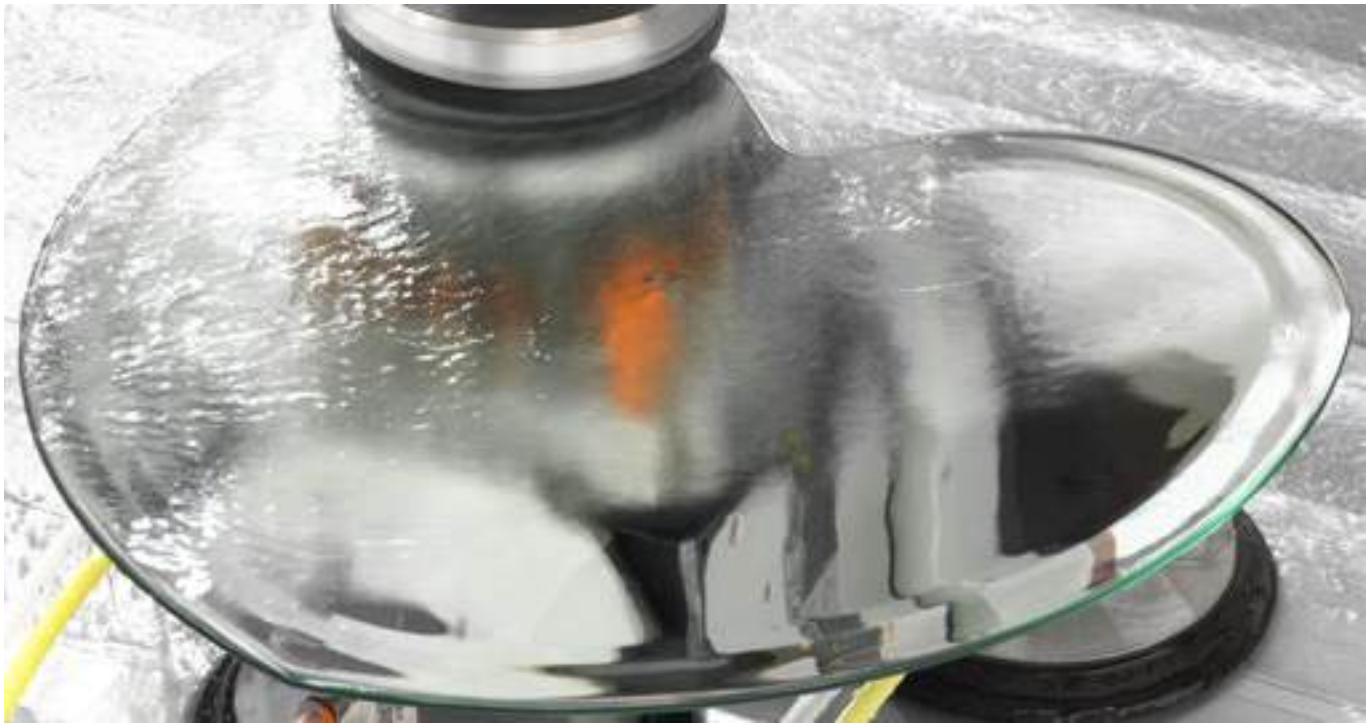
You can build your tool rack setup by configuring the machine with up to 69 tools placed over the 3 available rack setup. Non more need to manually switch cones for performing different production batches.

IC: 5 steps to processing

IC has been designed for making drawing and cam operations as simple as 5 mouse clicks. IC easily drives you throught 5 steps after which the program will be ready to be performed. IC is the result of decades of experience in the world of glass processing machines. We landed here by evolving our product from the DOS days to nowdays with no rivals around who can beat us.

Beveling

We have been absolute pioneers about beveling, bringing it around the world in exhibitions with amazing samples made on mirrors.



V grooving

The oldest Biesse process about glass, since the 90s, Master glass.



Cup Side Beveling

It requires knowledge for programming and time for processing. Every minute is worth the result. Just brilliant!



Intermac

Intermac Multi Pro S H3X



Intelligent setup

Suction cups management to the next level.

High water pressure, here it comes

The water pressure intensifier makes the deal.

Multiprocessing needs 4

Add the fourth axes to unlock a world of possibilities.



The Matrix

The Matrix version of the Intermac Multi Pro S is the best machine for high and professional production needs.

Its fully automated setup process is one of the most important requisites for companies that require a 100% monitored application. The suction cups are positioned on the bed and managed by a precision-guided automated system, ensuring optimal placement and stability during operations. This feature not only enhances efficiency but also reduces setup times, making it ideal for demanding production environments.

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.

Smooth and stable

Smooth and vibration-free axis movements.

All tools you need

You can configure your tool rack setup.

IC: 5 steps to processing

Cad Cam extreme evolution.



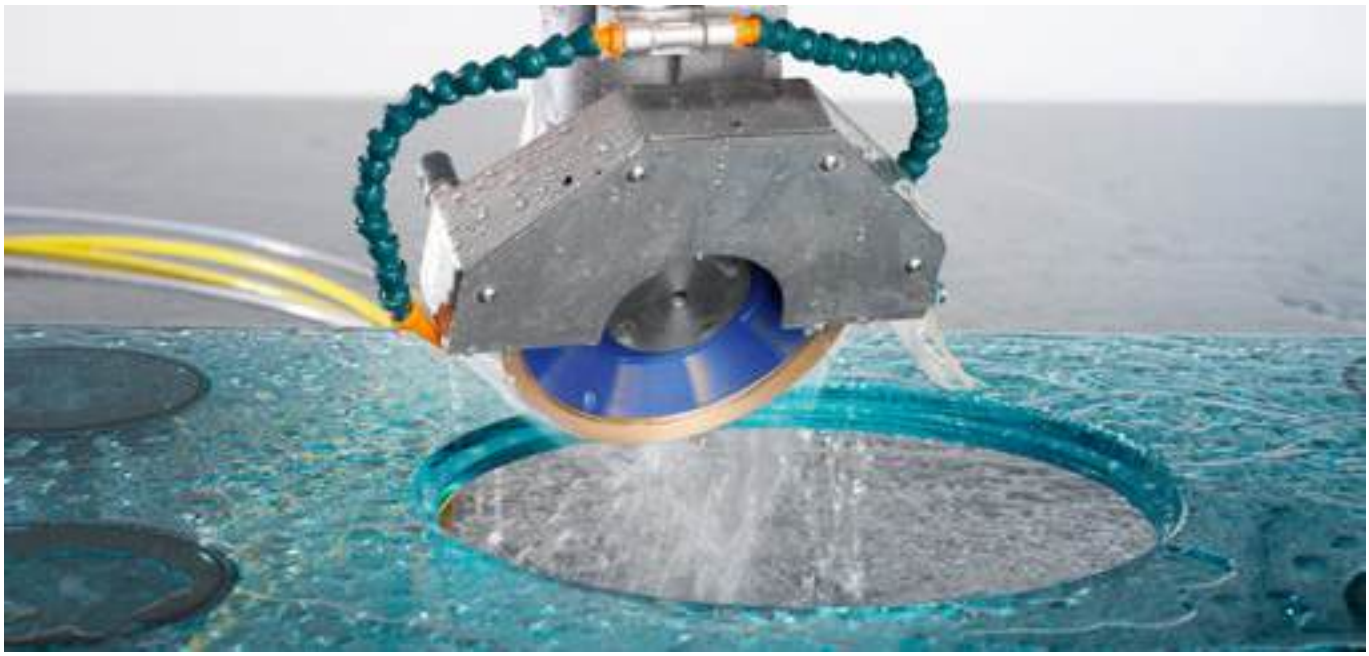
Intelligent setup

Telescopic suction cups are designed to be driven by the machine. They can be retracted according to the needs of the work program. In this way, it will be sufficient to place a number of them on the table and use them for different programs without having to set up each time. This allows you to save time. if you cut a hole in a sink, you can place a suction cup underneath the waste to get it down and be able to continue working the edge without interruption.

High water pressure, here it comes

Consisting of a stainless steel ring with plenty of 2,5mm tool oriented holes, brings a very high water pressure for cooling the point of contact between glass and diamond tool. It's perfect for edging epplications requiring high tool rpm and mt/min.
This is a real deal breaker in large batch production, together with the unique advantages of the matrix working table to have a fast and reliable production.





Multiprocessing needs 4

It's not just an optional. We provide a native head support hosting the 4th axis. It unlocks all processes using gearboxes for engraving, cup beveling, saw cutting and side pencil writing.

This will place the Multi Up on a full MultiProcess segment in which customer can satisfy every request.



Smooth and stable

Rock solid mechanical transmission, using linear guides, rolling screws and racks to ensure the best vibration free axes movements. different technologies adapted to ensure the best result in terms of precision, speed, reliability, robustness.



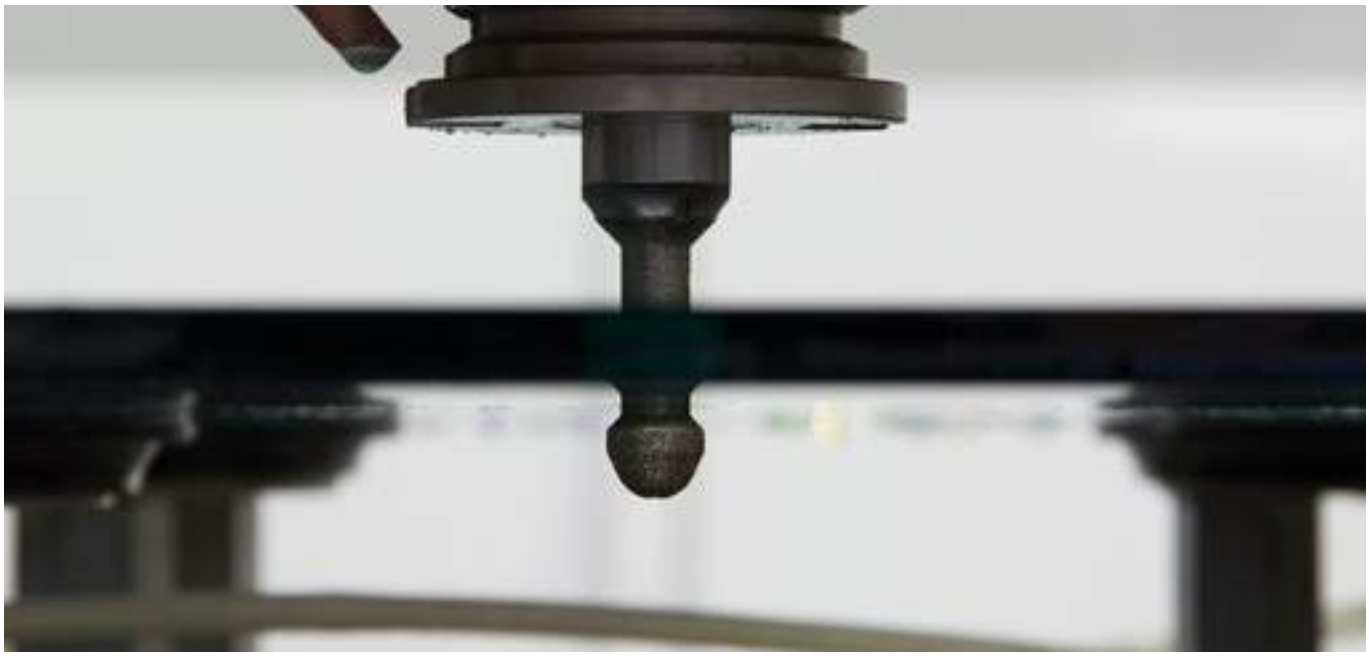
All tools you need

Depending on the size of the machine, you can choose from different tool magazine configurations, up to 69 tools positions. Depending on your production needs, you can save valuable time by having all tools at your disposal or save space by adopting the side tool rack.

Peripheral Edging

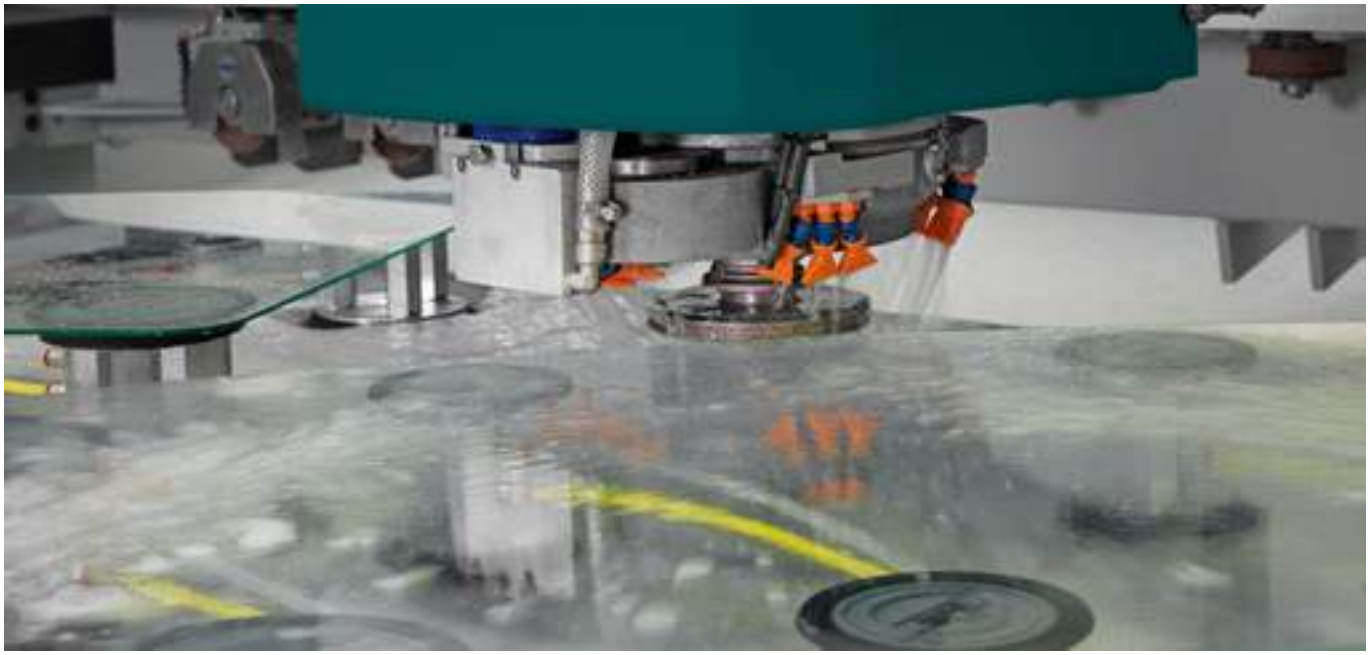
The main process of our machines is absolutely the best in every aspect. Any thinckness, any quality, any speed. Intermac Multi Up is the top one for this application.





Boring

Helix drilling bit does countersunk holes just perfect, arrising both sides during the same drilling cycle. It's a Biesse patented solution used worldwide.



Automotive

A clear example of the uses of the matrix machine is for automotive glass. Automated loading and unloading, telescopic suction cups, water pressure intensifier and high speed tools. Mass production is served.

Intermac

Intermac Multi Up S H3S



Smooth and stable

Smooth and vibration-free axis movements.

All you need is here

Its configurability and available sizes easily adapt to either single part or large volume production.

All tools you need

You can configure your tool rack setup.



Stairway to perfection

Our brand has hystorically been synonymous of multiprocess worldwide.

We drove the trend. We drove the processes. We have the aknowledgement and the power for bringing all our experience to our Multi machine range.

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Human machine interface

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Up

IC: 5 steps to processing

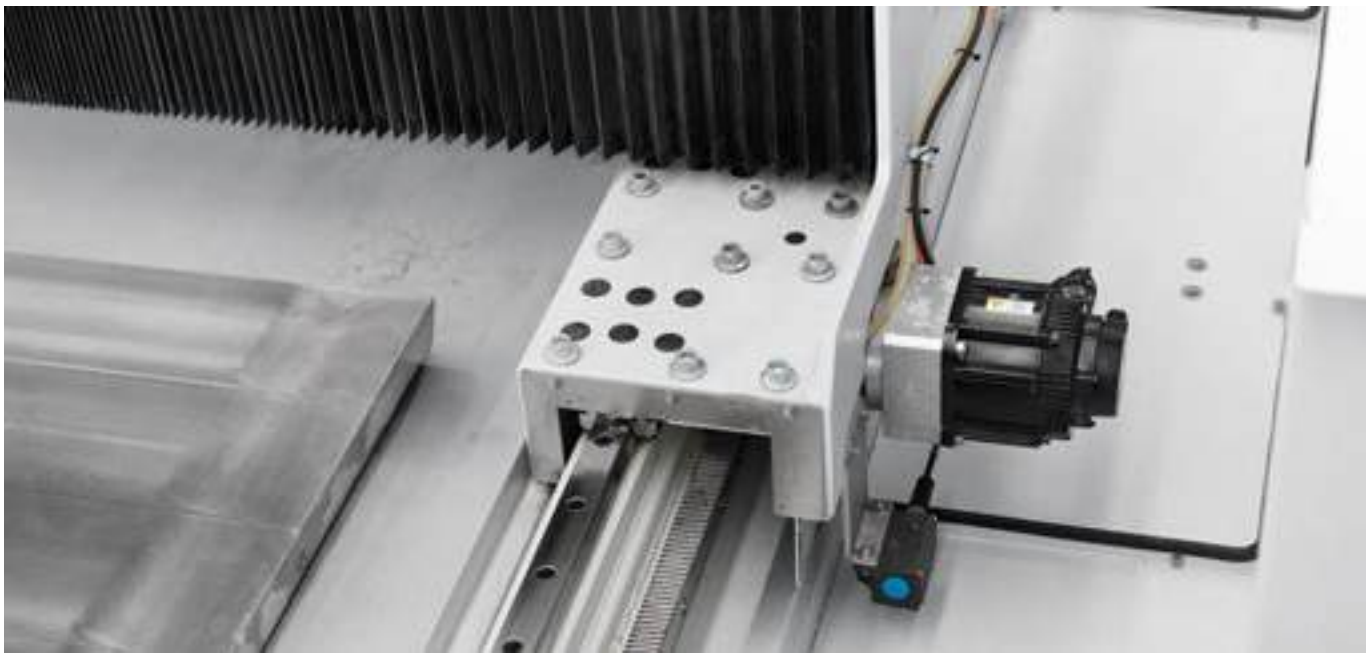
Cad Cam extreme evolution.

Multiprocessing needs 4

Add the fourth axes to unlock a world of possibilities.

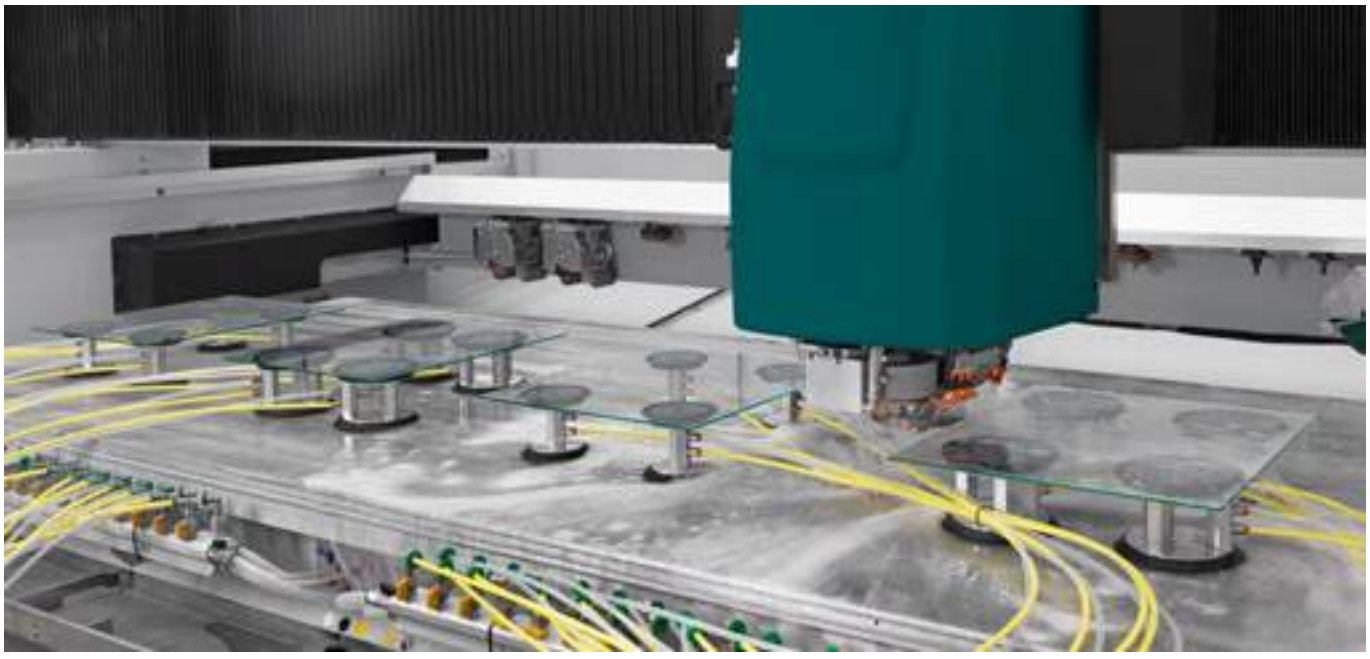
Smooth and stable

Rock solid mechanical transmission, using linear guides, rolling screws and racks to ensure the best vibration free axes movements. different technologies adapted to ensure the best result in terms of precision, speed, reliability, robustness.



All you need is here

Depending on the glass size you can place more pieces in double stations optimizing every step of the working cycle and consequentially the production speed. You can then work a glass door as well as a set of refrigerator brackets.



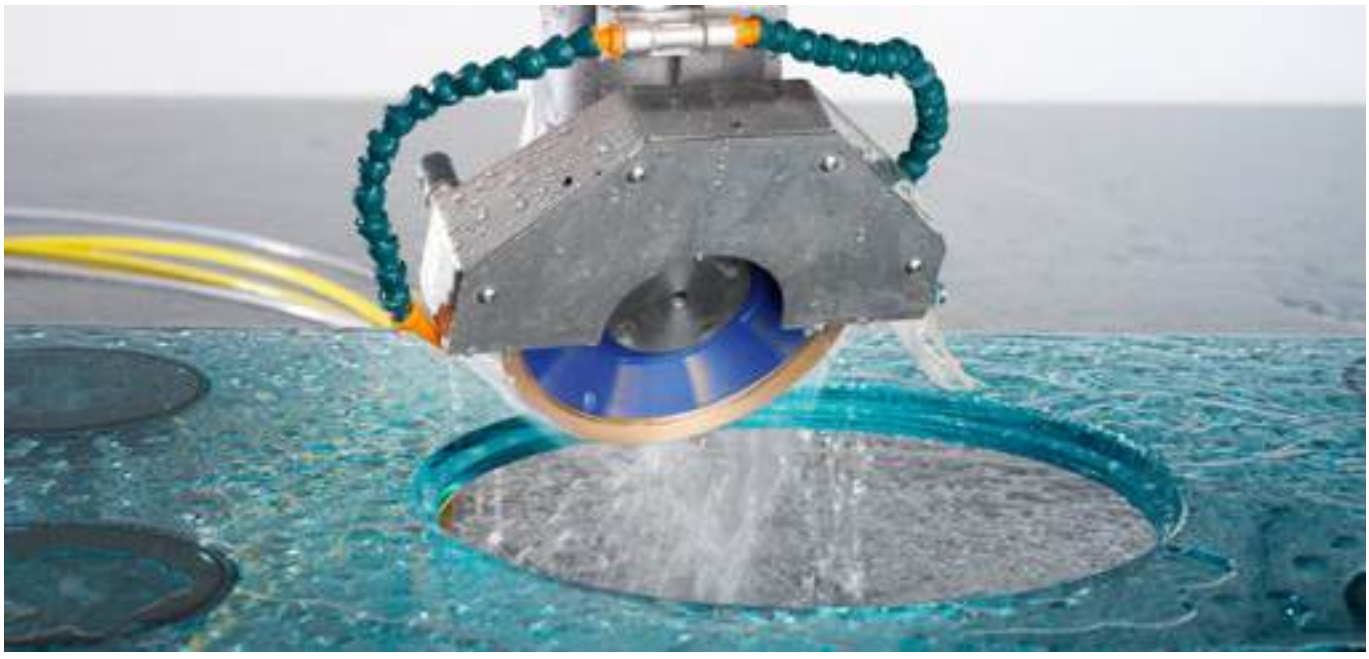
All tools you need

Depending on the size of the machine, you can choose from different tool magazine configurations. Side rotary magazine up to 18 positions or linear magazine on the back up to 61 positions. Depending on your production needs, you can save valuable time by having all tools at your disposal or save space by adopting the side one.



Multiprocessing needs 4

It's not just an optional. We provide a native head support hosting the 4th axis. It unlocks all processes using gearboxes for engraving, cup beveling, saw cutting and side pencil writing. This will place the Multi Up on a full MultiProcess segment in which customer can satisfy every request.



Peripheral Edging

The main process of our machines is absolutely the best in every aspect. Any thinckness, any quality, any speed. Intermac Multi Up is the top one for this application.



V grooving

V-grooving is just cool. Variable width and depth processing resulting into a nice and artistic effect.



Cup Side Edging

One of the most difficult task to be performed. High quality result is guaranteed by a perfect teamwork of tools, software and operator.



Intermac

Intermac Multi Go S H3S



Compact overall

Intermac Multi Go S defies its small stature with a wide range of machining capabilities, rivaling larger machines. Despite its compact design, it excels in every edgework, making it a versatile choice for various glassworking applications and offering big results in a small footprint.

Tool rack on head

The head-mounted tool holder allows tools to be changed in seconds. It is performed very quickly as the movement of the bridge along the machine is not needed. In this way we keep machining time as the primary goal.

We let you do everything

Ready for edgeworks, It can be equipped with all available options like its bigger sisters. The fourth axis unlocks chamfering, engraving and disc cutting options.



Amazingly Compact

Easy setup, fast programming, exceptional flexibility;

all of this in a single, compact CNC machine for glass processing. Targeted as entry level, It's a door opening machine to the world of the automated applications.

Guaranteed response: **Remote Assistance** you can rely on

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Human machine interface

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Effortless Tooling

We have designed our machine with precision and efficiency not only in machining operations but also in tooling setup and maintenance. With advanced automated systems designed to streamline tooling setup and redressing processes, this machine ensures that tools remain sharp and ready for optimal performance without manual intervention.

The perfect robot companion

Intermac Multi can be used as a high-volume production machine, served by robots for raw glass loading and finished product unloading. The interface is fully customizable through the use of I/O mapping as needed.

Intermac

Intermac Multi Pro M VOX



“Helix” your drill

Forget about limitations in drilling using Helix.

Smart Shuttles

Intelligent shuttles and suction cups management make the glass movimentation precise and smooth.

Stay centered, stay stable

Perfect glass finishing is garanteed by the pilot system.

Change your perspective

The vertical NC glass processing centre capable to perform drilling, milling and arrising in a quick and easy way, with the most advanced solutions out on the market.

Boost your production with speed and quality, without any more need to setup the machine for processing.

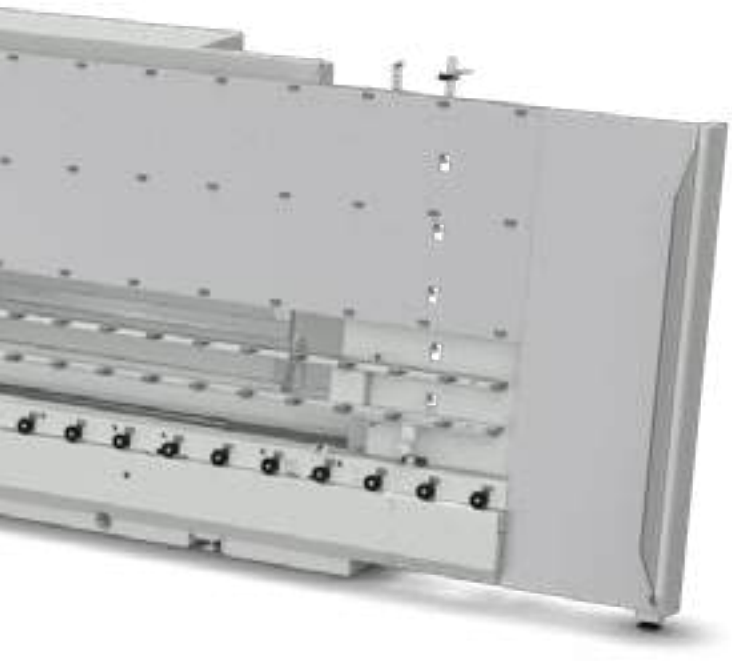
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Safety with no compromises

Best safety solutions brought to the queen of the vertical machining, machine is protected 360° all around.

Rock solid frame

Tought structure is the breaking point.

We do it for you

It automatically detects glass size and thickness.

IC: 5 steps to processing

Cad Cam extreme evolution.

“Helix” your drill

Forget about limitation in drilling operations due to shuttle’s interference. With Helix system, drilling and countersinking are performed by the only front head and therefore not influenced by the suction cups position.



Smart Shuttles

The dynamic repositioning system of the suction cup carriages is designed to process a workpiece without ever leaving it halfway between the carriages, activating and deactivating each suction cup when required by the program. This results in faster processing and the ability to process unstable glass sheets that otherwise could not be processed with conventional vertical machines. Thanks to intelligent suction cup management, we also take care of the cut glass scrap, automatically holding it with a suction cup so that it does not fall off.



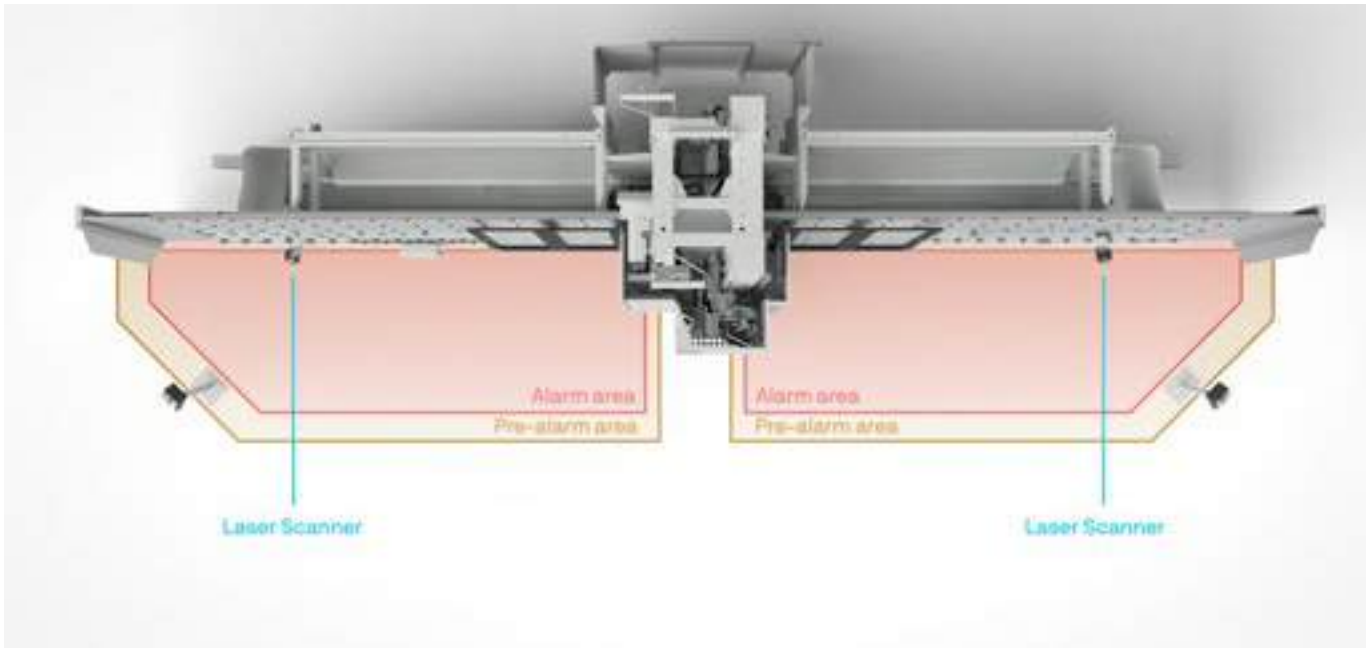
Stay centered, stay stable

Pilot system is designed to hold the glass and follow along the shape to reduce vibrations during grinding and polishing operations, increasing the overall finishing quality of the glass. The pilot system, driven by the C Axis, clamps the external perimeter of the glass. A pair of anti-friction copiers keeps the glass centered and stable granting a constant bevel and perfect finishing quality.



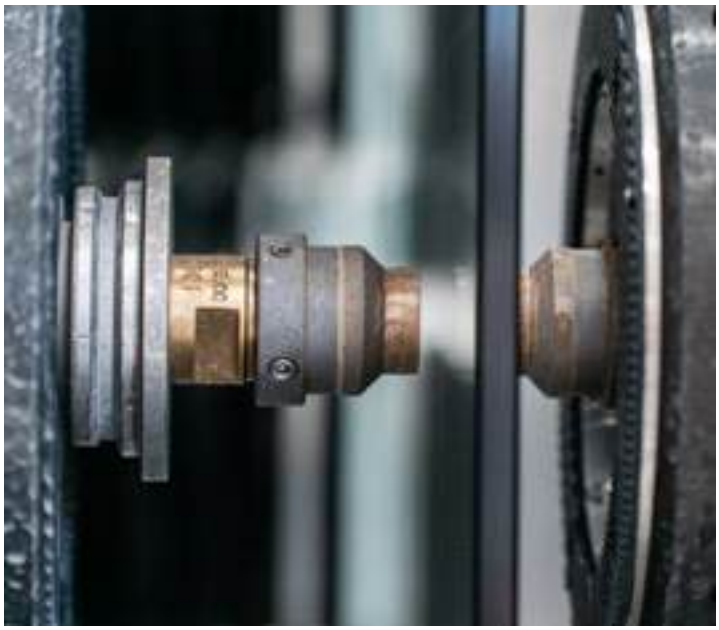
We do it for you

The self-learning system makes it possible to apply the right sequence of tools and parameterize the position and machining of internal cutting/hole profiles. By detecting the thickness of the glass, any possible programming errors are avoided, maximizing productivity and flexibility. The software automatically applies the right tools for the detected thickness.



Safety with no compromises

Intermac Multi Pro V0X is equipped with the most advanced security solutions. The protection offered by the LaserScan allows you to define areas where nothing can enter while the operator can work safely on the PC station. When a foreign body enters the safety area, the machine stops and power to the axes is cut off, as is the case with operator entry. This ensures maximum safety of operation.
We embrace the EN ISO 13849-1 – Functional safety standard, basis for Performance Level. Intermac Multi Up M V0X is PL-D compliant.



Drilling

2 heads for a perfect hole. Their alignment is guaranteed by a solid, foolproof fixing system. The hole is made simultaneously by both heads and allows for an optimal result without the use of accessory tools and halving the production time.

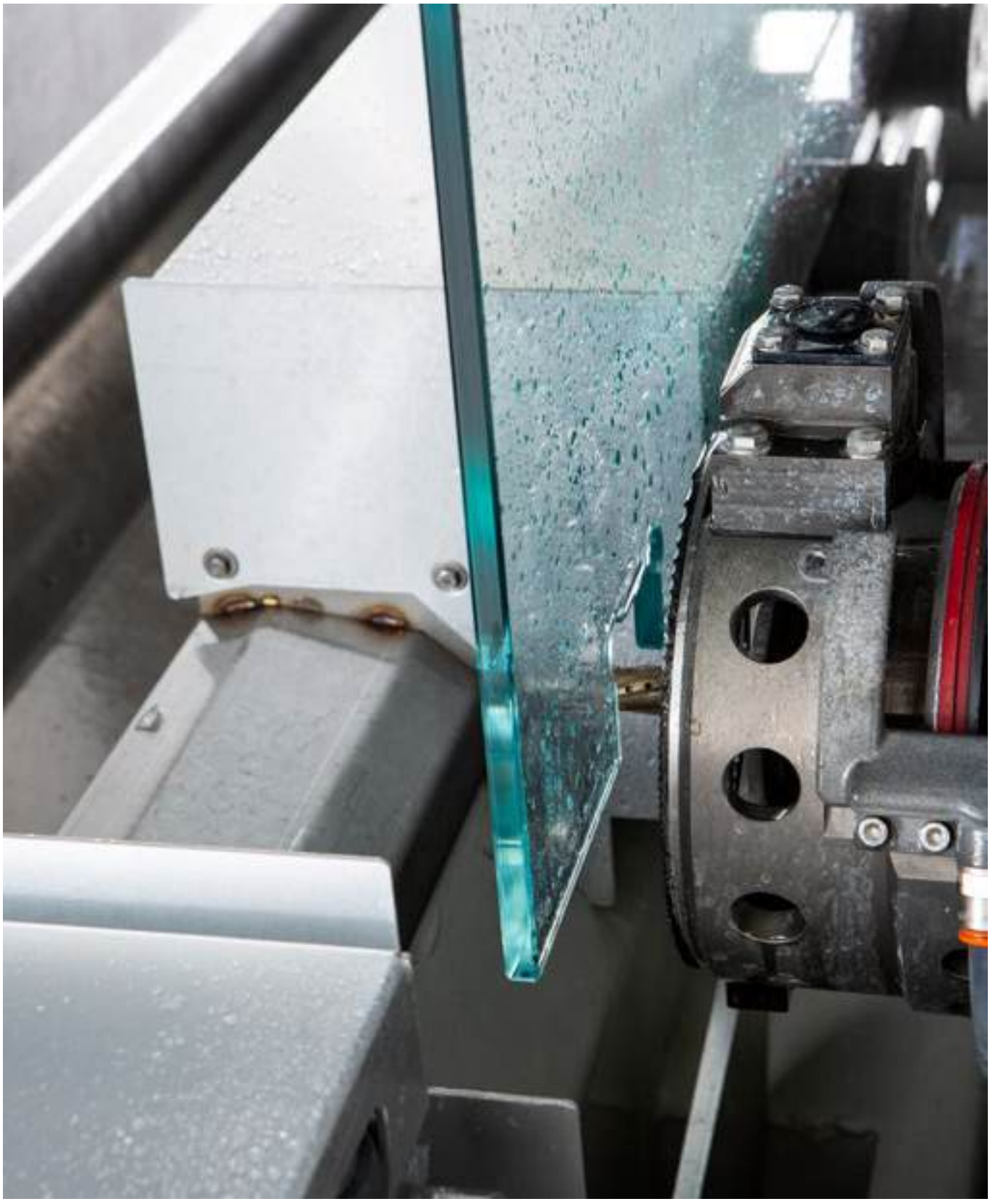


Batch One balustrades production

Balustrades production is one of the core job of Multi PRO M V0X, performing all the operations all at once. Holes, notches, perpheral edging, everything just works smooth and fast.

Grinding

Grinding fast, the minimum glass removal for each side is 0.7 mm, and if the glass comes directly from the cutting table, the diagonal difference must be 0.15 mm/m or less.





Interior design

we can process squared glasses as well as shaped ones keeping in mind few restrictions such as a straight side and minimum radiuses. Thank to its 3 machine sizes to choose from, almost every design can be processed.



Structural glass

We can process glasses up to 3300mm high and 6000mm long, meaning full jumbo glass size and up to 30mm thickness.



Balustrades

Ideal for any kind of balustrades. milling notches slots, edging the profile, do everuthing all at once.

Intermac

Intermac Multi Up M VOX



Vertical shaping is real

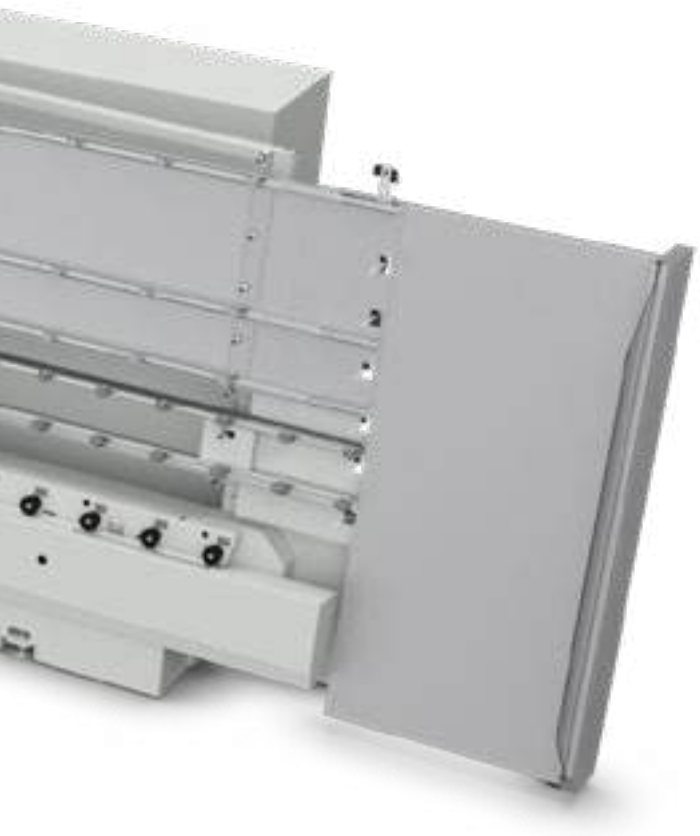
You can process almost any shape with few limitations.

“Helix” your drill

“Forget about limitations in drilling using Helix.

No setup stress

No setup required. Just let the glass enter the machine.



Do it vertical, do it ease

Multi M machines are designed to enable the processes of finishing, milling and drilling glass all in one machine.

The concept behind the design is to create a range of easy-to-use, fully automatic machines that can process glass from a cutting table and perform edge finishing, even on shaped or out-of-square glass. In addition, they are capable of drilling, countersinking, grinding, milling and polishing cutouts, notches or any kind of hardware design.

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Human machine interface

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Up

IC: 5 steps to processing

Cad Cam extreme evolution.

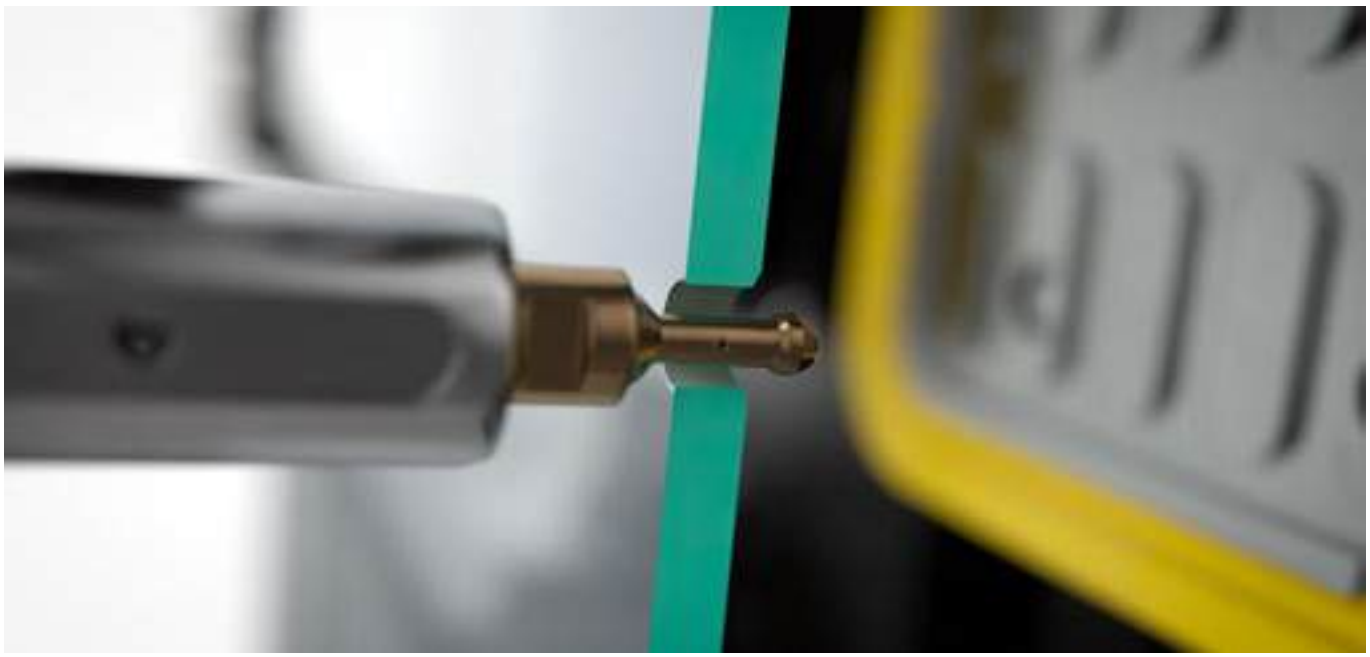
Stay centered, stay stable

Perfect glass finishing is garanteed by the pilot system.

Vertical shaping is real

the machine can process many types of templates, taking into account some caveats and limitations, clearly, such as the need to have at least one straight side, the one that rests on the machine's roller guide. The possibilities are many and open the way for the Multi Up V0x to be used in a wide variety of contexts, from fornitures, to balustrades, to bathrooms, etc.





"Helix" your drill

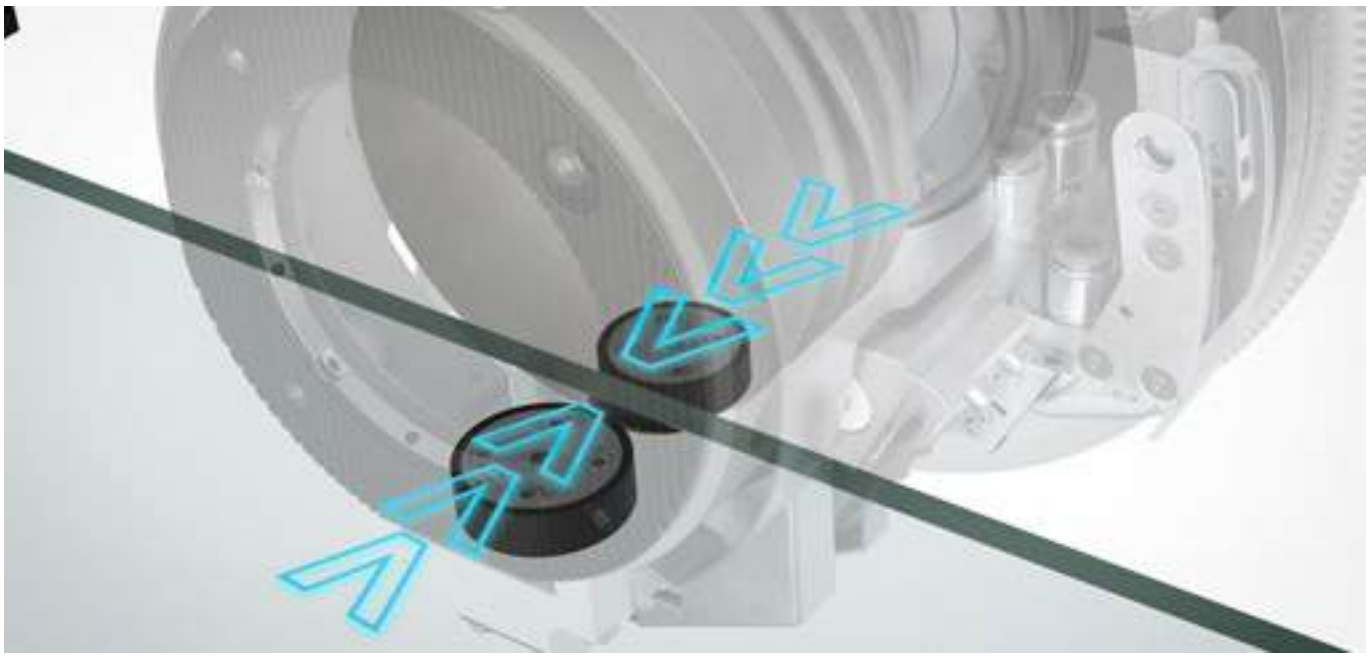
Forget about limitation in drilling operations due to shuttle's interference. With Helix system, drilling and countersinking are performed by the only front head and therefore not influenced by the suction cups position.



No setup stress

Vertical machine has changed the way you setup for working and Vertmax has been the pioneer of this trend since 2013. The glass is transported by carriages and moved throught the head section. Each carriage is an axis as well as each head and the roller transport guide. The NC just interpolate all of them the same way an horizontal machine does, but in this case we have a null positioning time with extreme accuracy. Forget about preparing the horizontal bed for the glass sheet placement.

Up



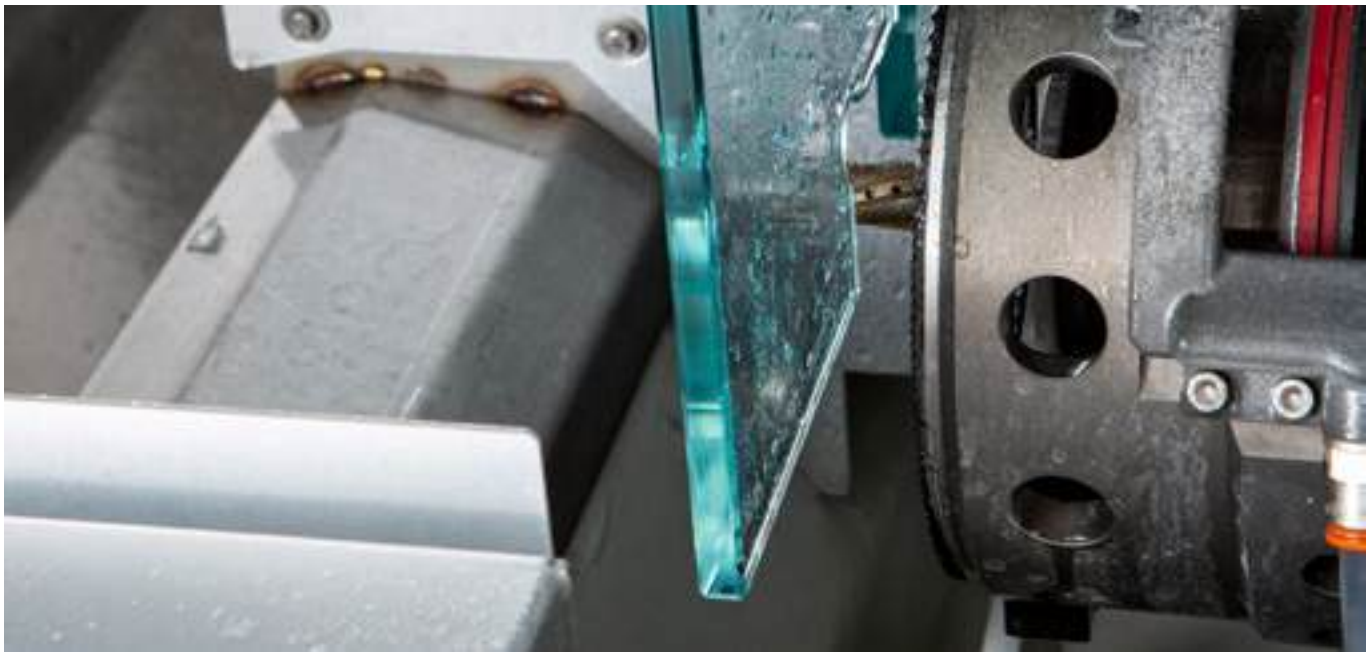
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Grinding

Grinding fast, the minimum glass removal for each side is 0.7 mm, and if the glass comes directly from the cutting table, the diagonal difference must be 0.15 mm/m or less.



Batch One doors production

Door production is one of the core job of Multi UP M V0X, performing all the operations all at once. Holes, notches, perpheral edging, everything just works smooth and fast.

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