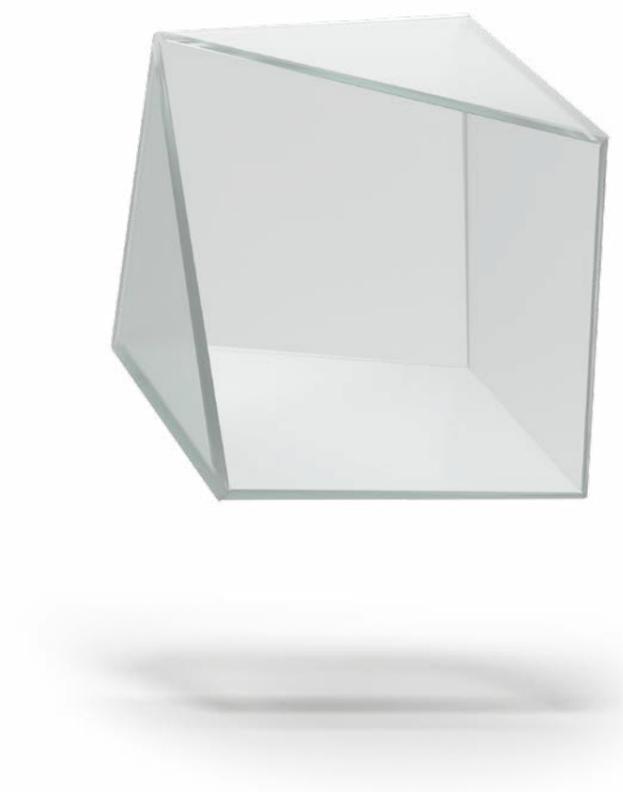


Biesse
Machinery

Product Portfolio

Product Portfolio



Founded in Italy in 1969
International natives

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

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

Master of materials

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

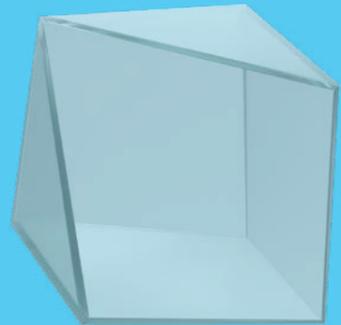
Entra nel
mondo Biesse.

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



Glass

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



Discover
all our machines
for glass



biesse.com

Intermac

Machines

Forvet

Extended Machines

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

Machining type

Cut Cutting

Edge Edging

Drill Drilling

Multi Multi-machining

Segment

Pro Distinctiveness and performance

Up Agility and expertise

Go Simplicity and compactness

Intermac

Intermac is a pioneer in the world of glass processing.

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

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



Forvet

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

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



Machining Types

A machining operation
for every requirement

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

Cut

Cutting

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

Edge

Edging

Range of solutions for grinding and polishing glass.

Drill

Drilling

Range of solutions for boring, countersinking and milling glass.

Multi

Multi-machining

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

Segment

Your needs,
our skill

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

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



Distinctiveness and performance

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



Agility and competence

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



Simplicity and compactness

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

Multi- machining

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

Multi

Discover
all our multi-machining
machines



biesse.com

Shape

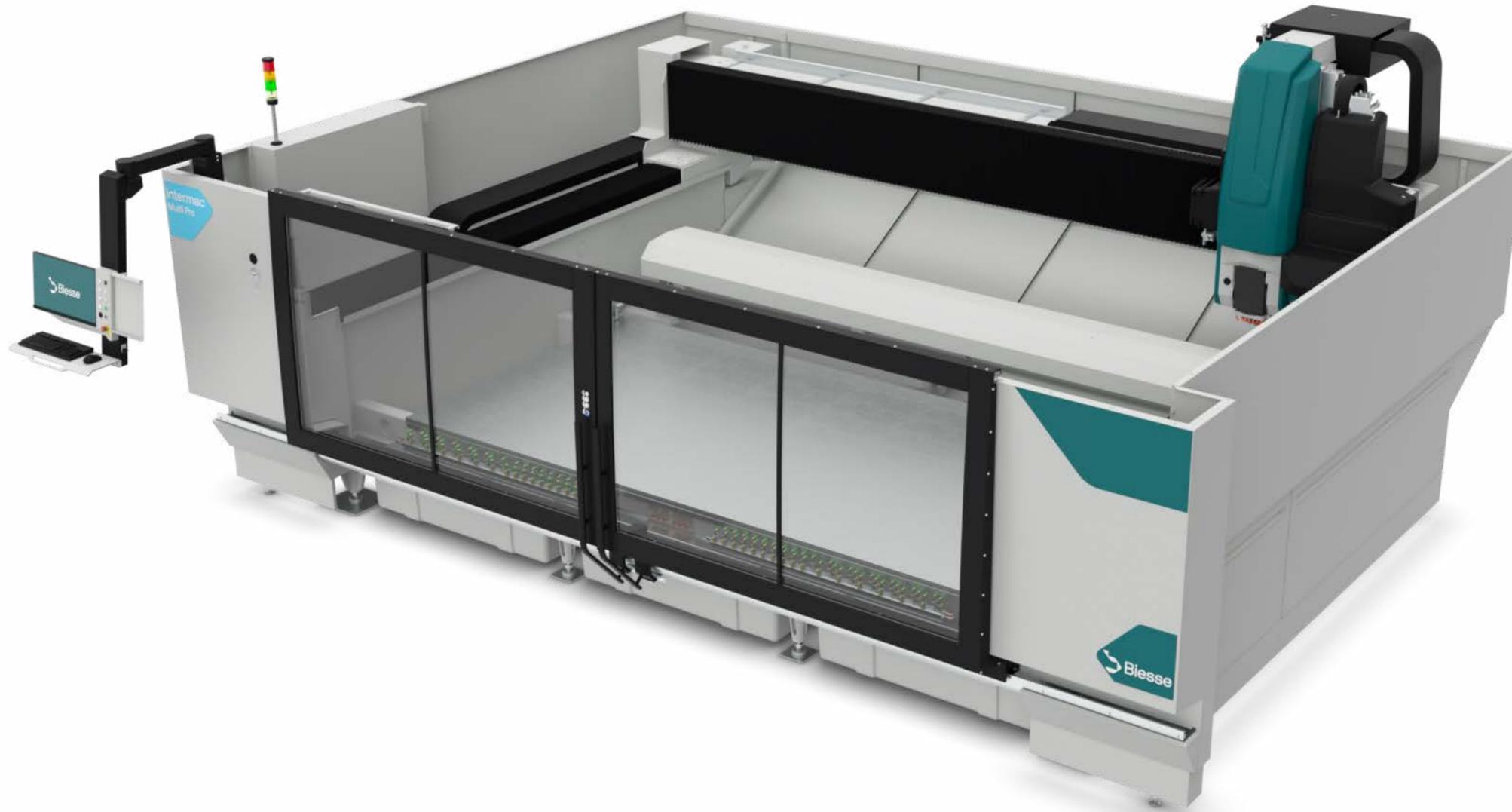
Product Brand	Model	Segment
Intermac	Intermac Multi Pro S H5S	Pro
	Intermac Multi Pro S H3X	Pro
	Intermac Multi Up S H3S	Up
	Intermac Multi Go S H3S	Go
	Intermac Multi Go S H4S	Go

Mill

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

Intermac

Intermac Multi Pro S H5S



Historical exclusivity

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

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 that 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.

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.

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 tasks 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

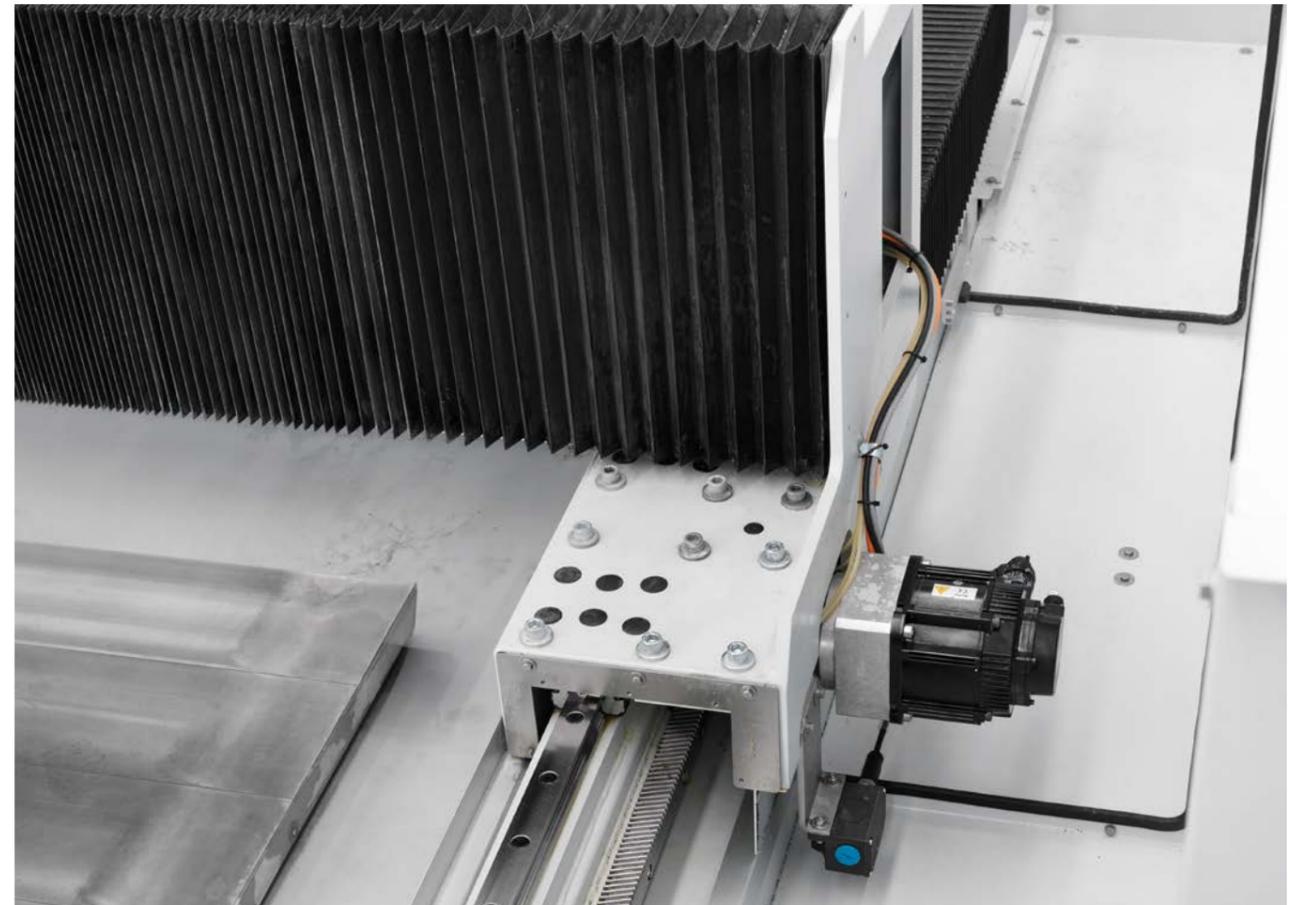
Continuous head rotation makes movements very smooth, thanks to an advanced electric and fluidic distributor system. This allows us to see no signs of change of direction on the glass. Few processes that require continuous rotation are

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.

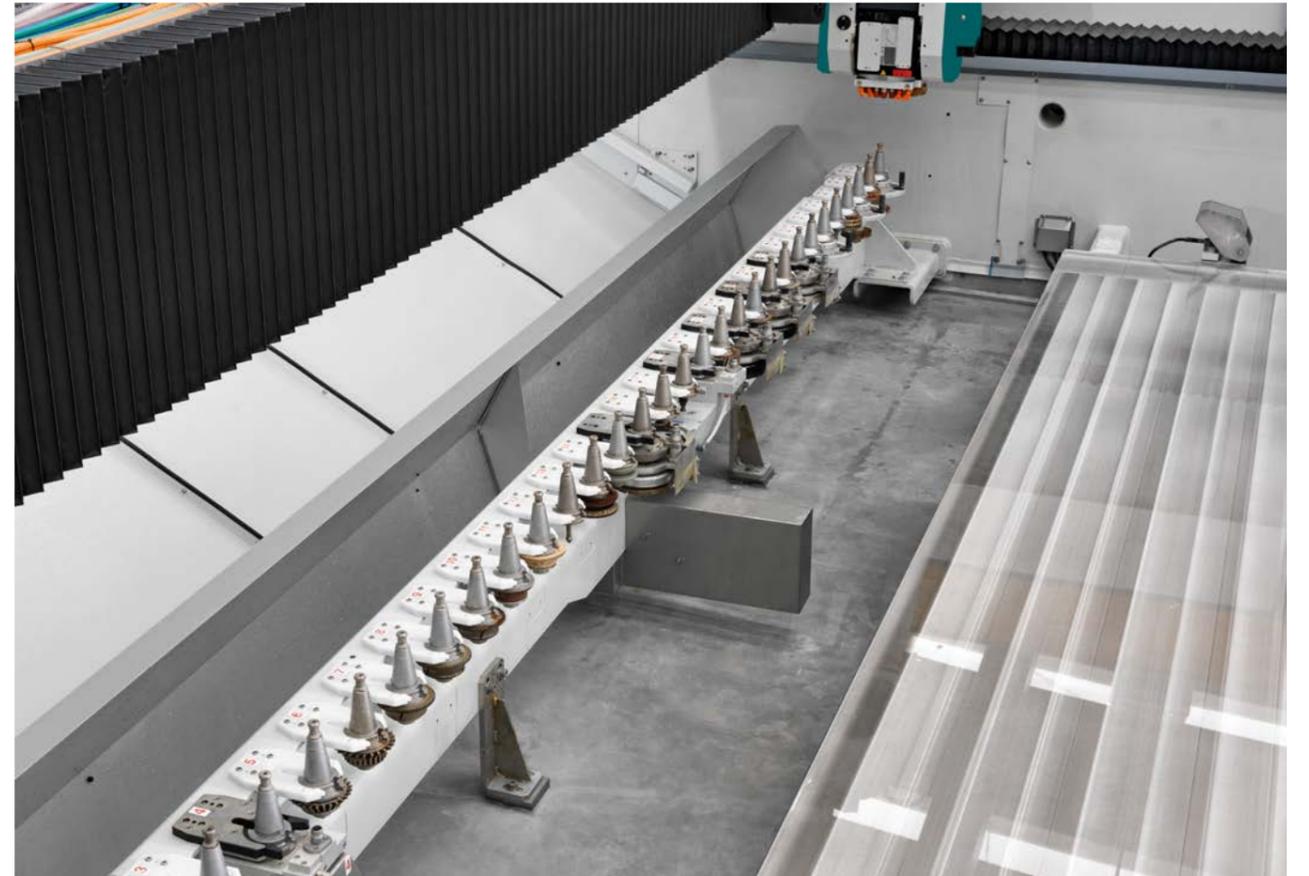


BEST transmission IN CLASS

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 maintenance 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 through 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 nowadays 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.



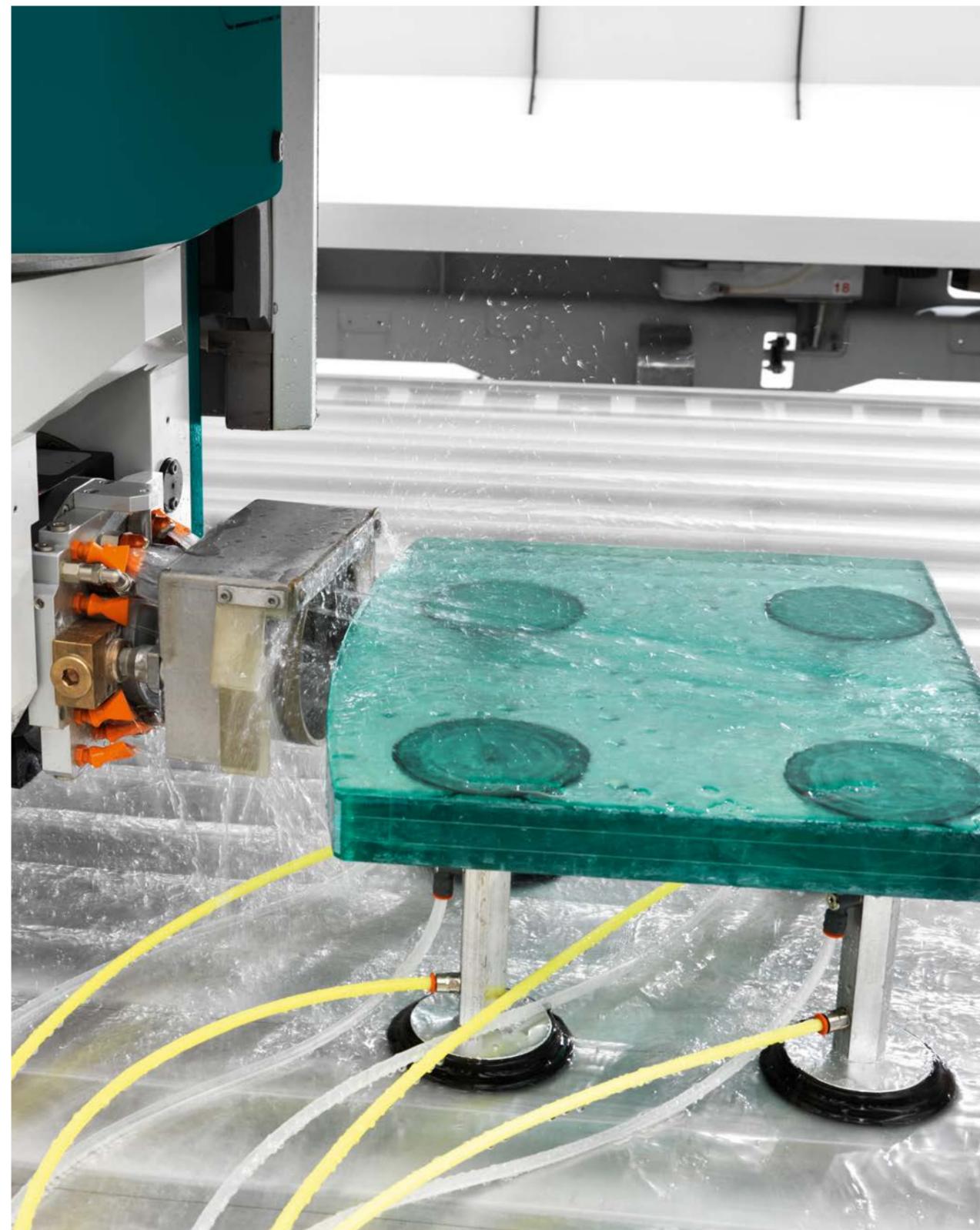
V grooving

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



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.

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.

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.



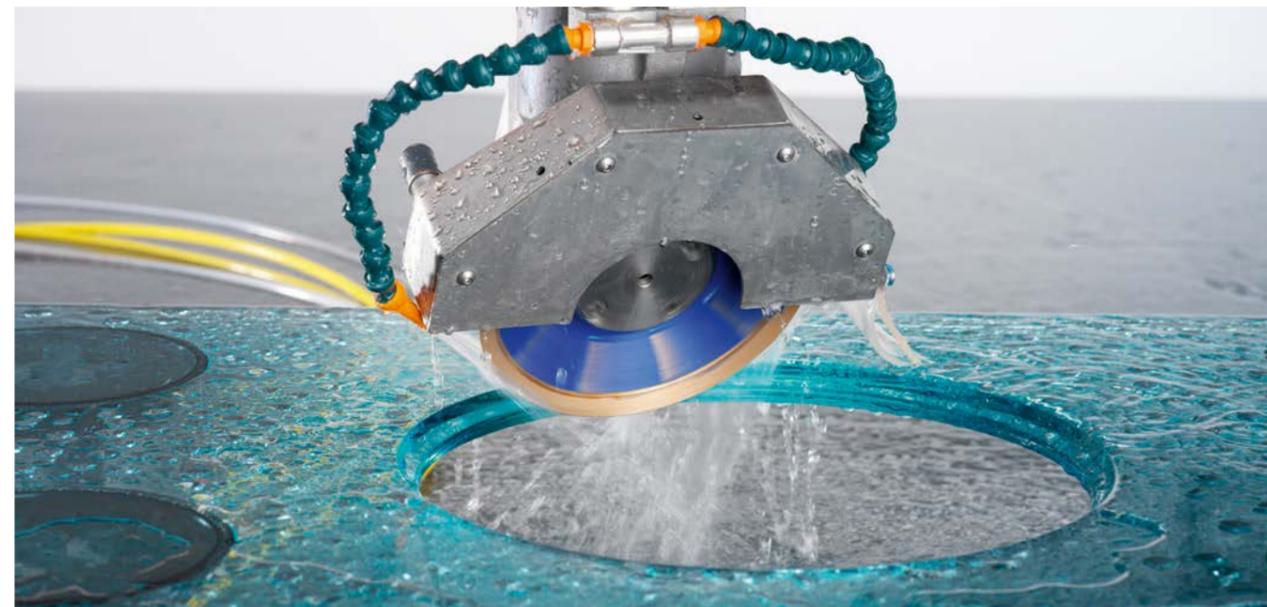
Intelligent setup

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 applications 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 gear-boxes 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.

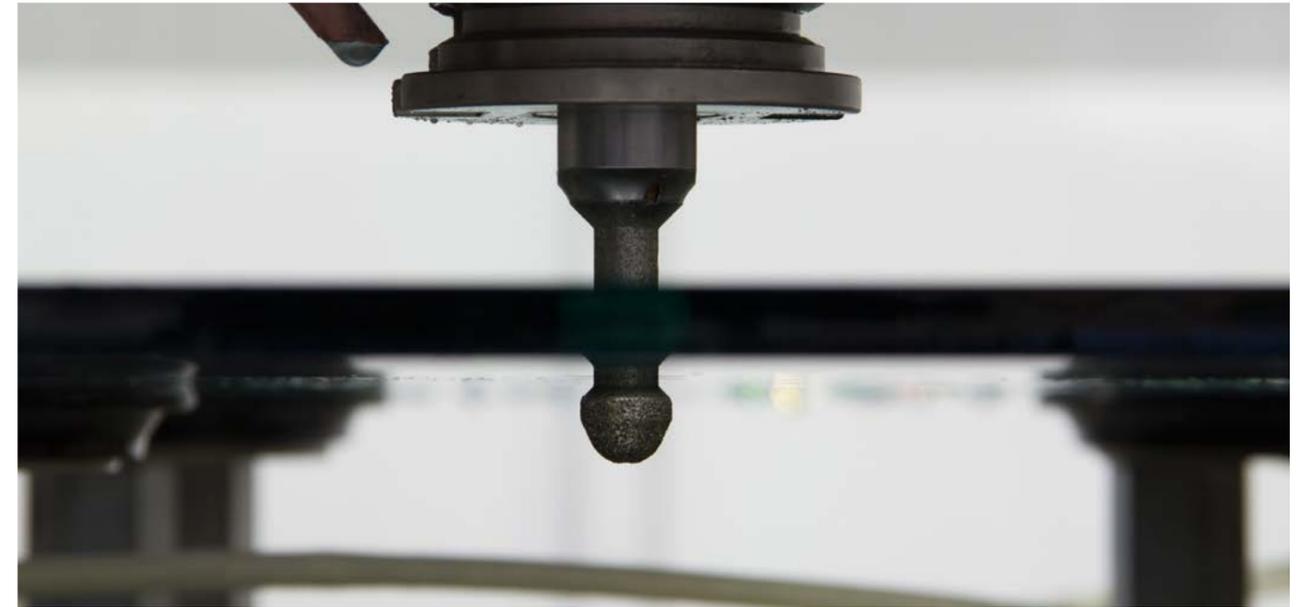


All tools you need

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 thickness, any quality, any speed. Intermac Multi Up is the top one for this application.



Boring

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

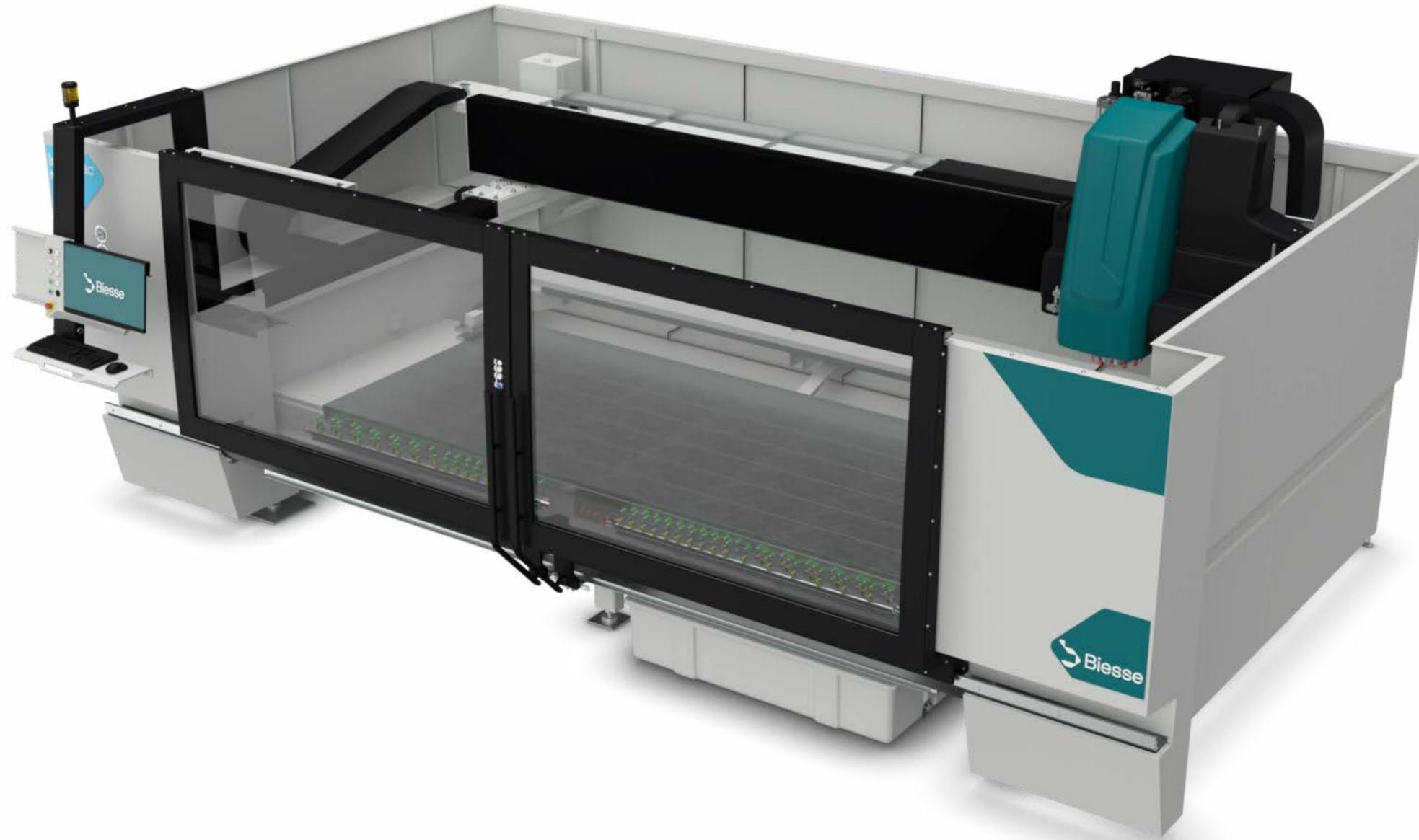


Automotive

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



Stairway to perfection

Our brand has historically been synonymous of multiprocess worldwide.

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

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

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.

IC: 5 steps to processing

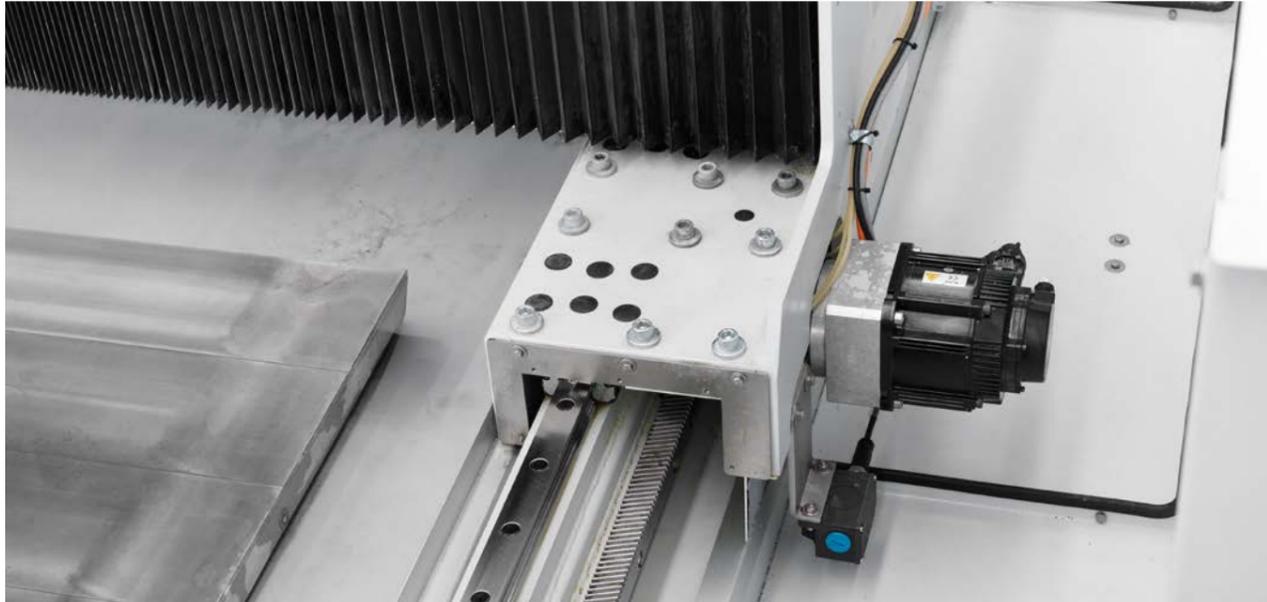
Cad Cam extreme evolution.

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.



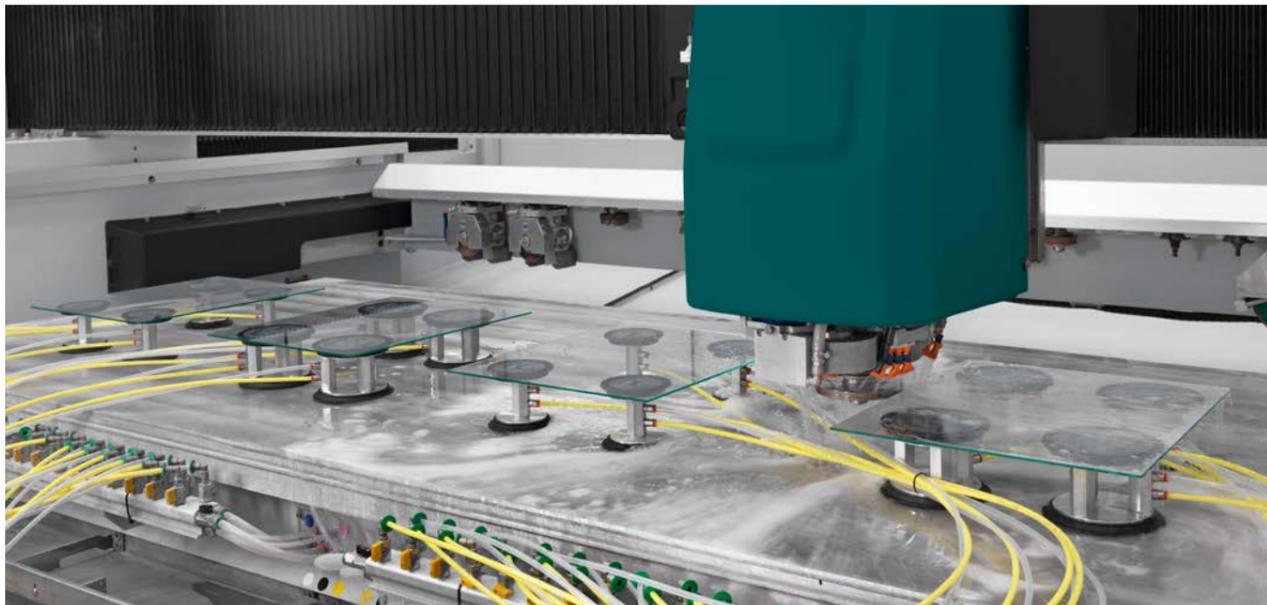
All tools you need

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.



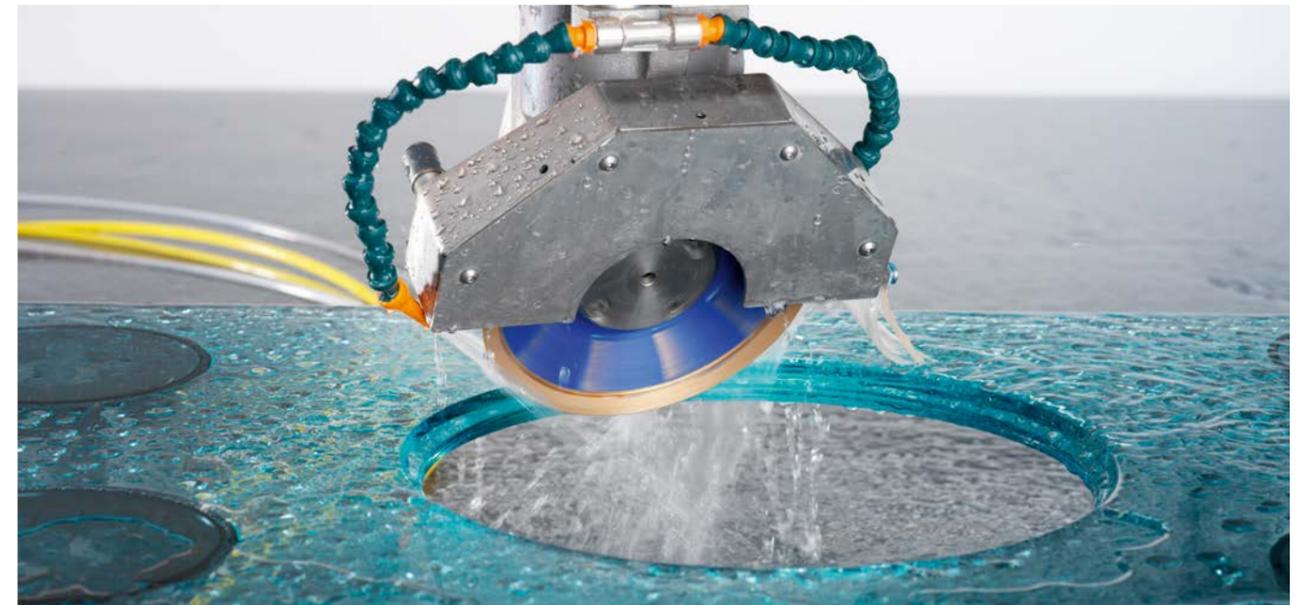
All you need is here

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



Multiprocessing needs 4

It's not just an optional. We provide a native head support hosting the 4th axis. It unlocks all processes using gear-boxes 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 thickness, 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

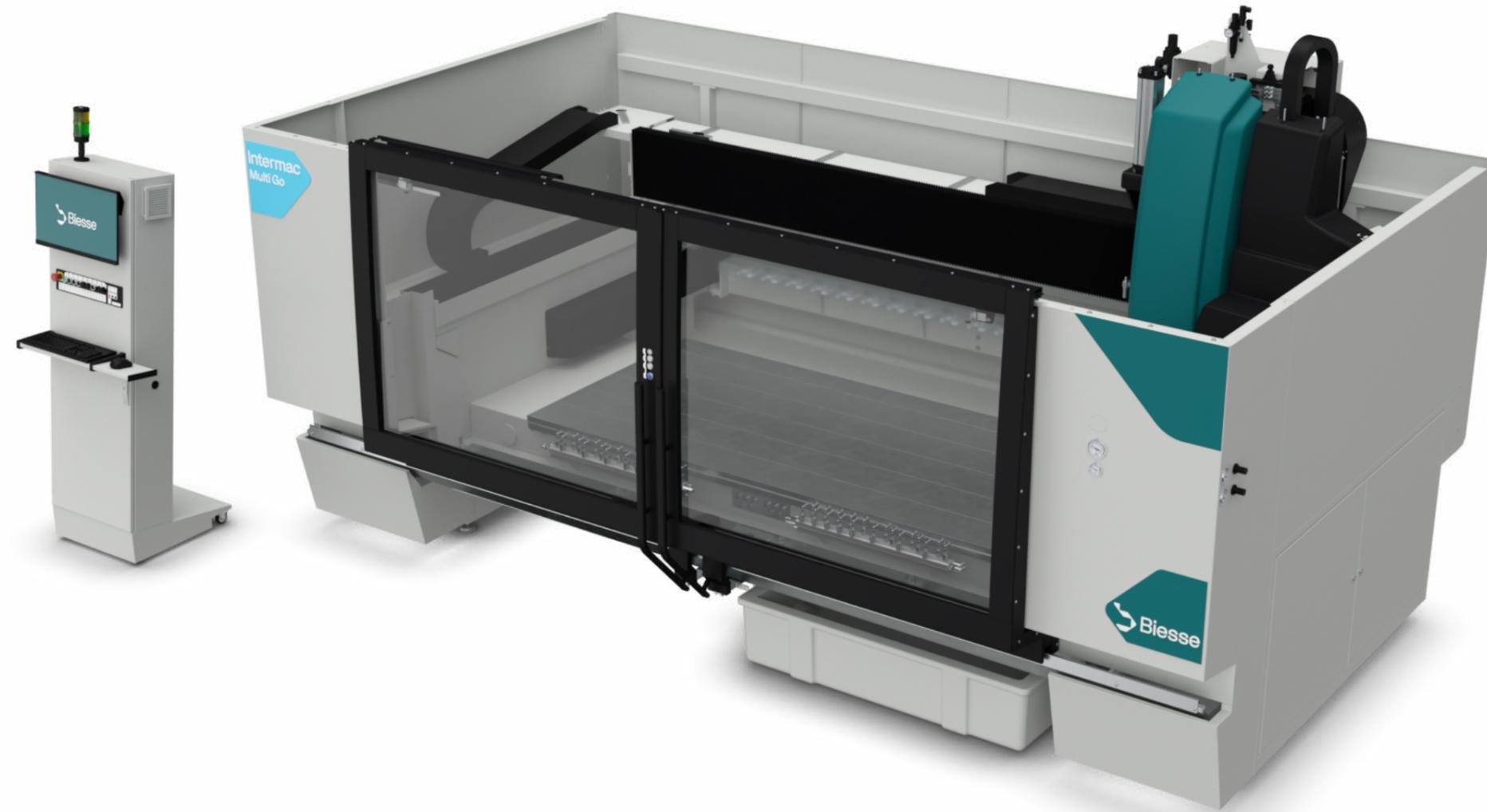
One of the most difficult task to be performed. High quality result is guaranteed by a perfect teamwork of tools, software and operator.



Shape (Horizontal)

Intermac

Intermac Multi Go S H3S



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

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.

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.

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



Change your perspective

The vertical NC glass processing centre capable to perform drilling, milling and arising 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.

Guaranteed response: Remote Assistance you can rely on

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Human machine interface

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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.

“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 guaranteed by the pilot system.

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.



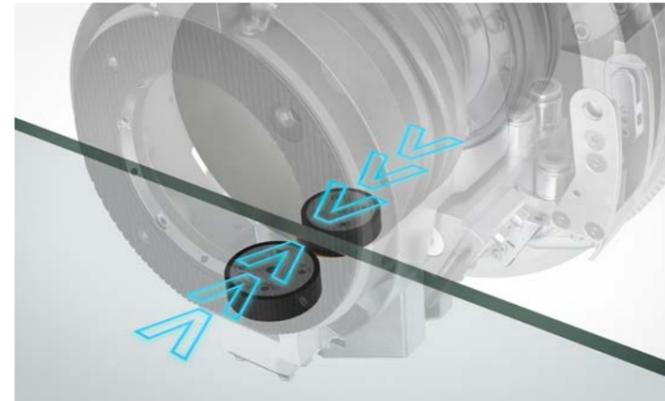
“Helix” your drill

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.



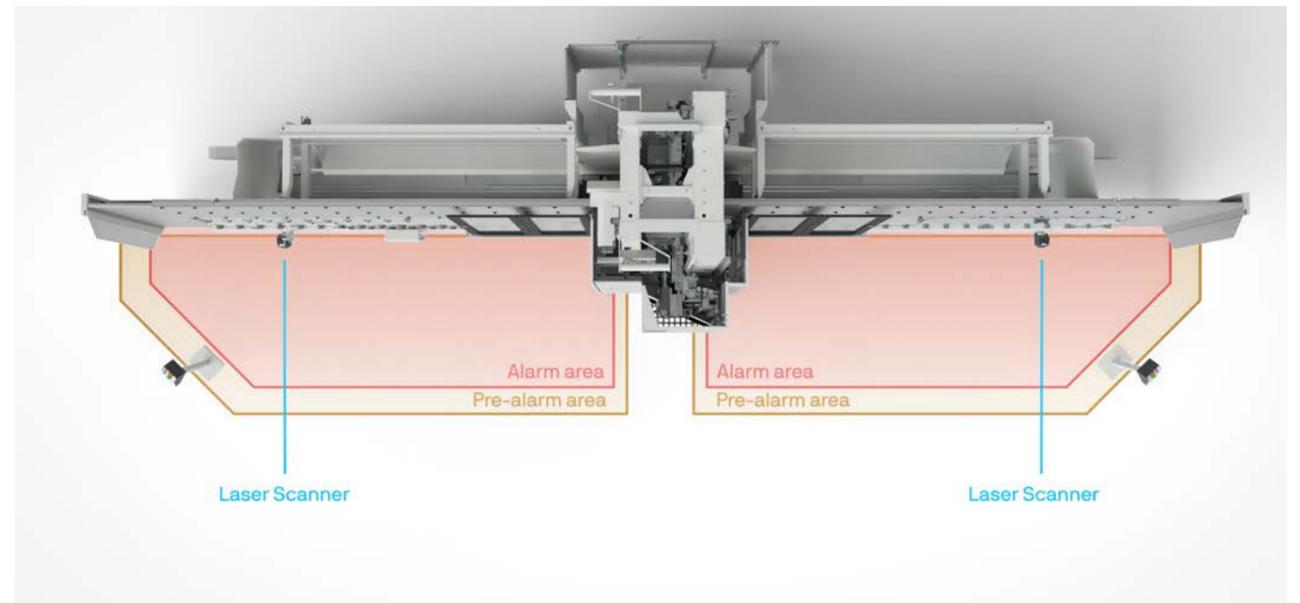
Stay centered, stay stable

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

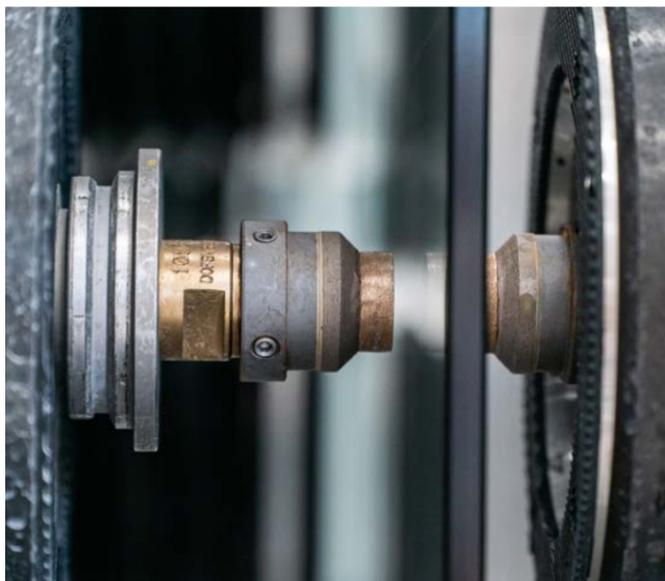
The self-learning system makes it possible to apply the right sequence of tools and parameterize the position and machining of internal cutting/hole profiles. By detecting the thickness of the glass, any possible programming errors are avoided, maximizing productivity and flexibility. The software automatically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



Safety with no compromises

Intermac Multi Pro VOX 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 VOX 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.

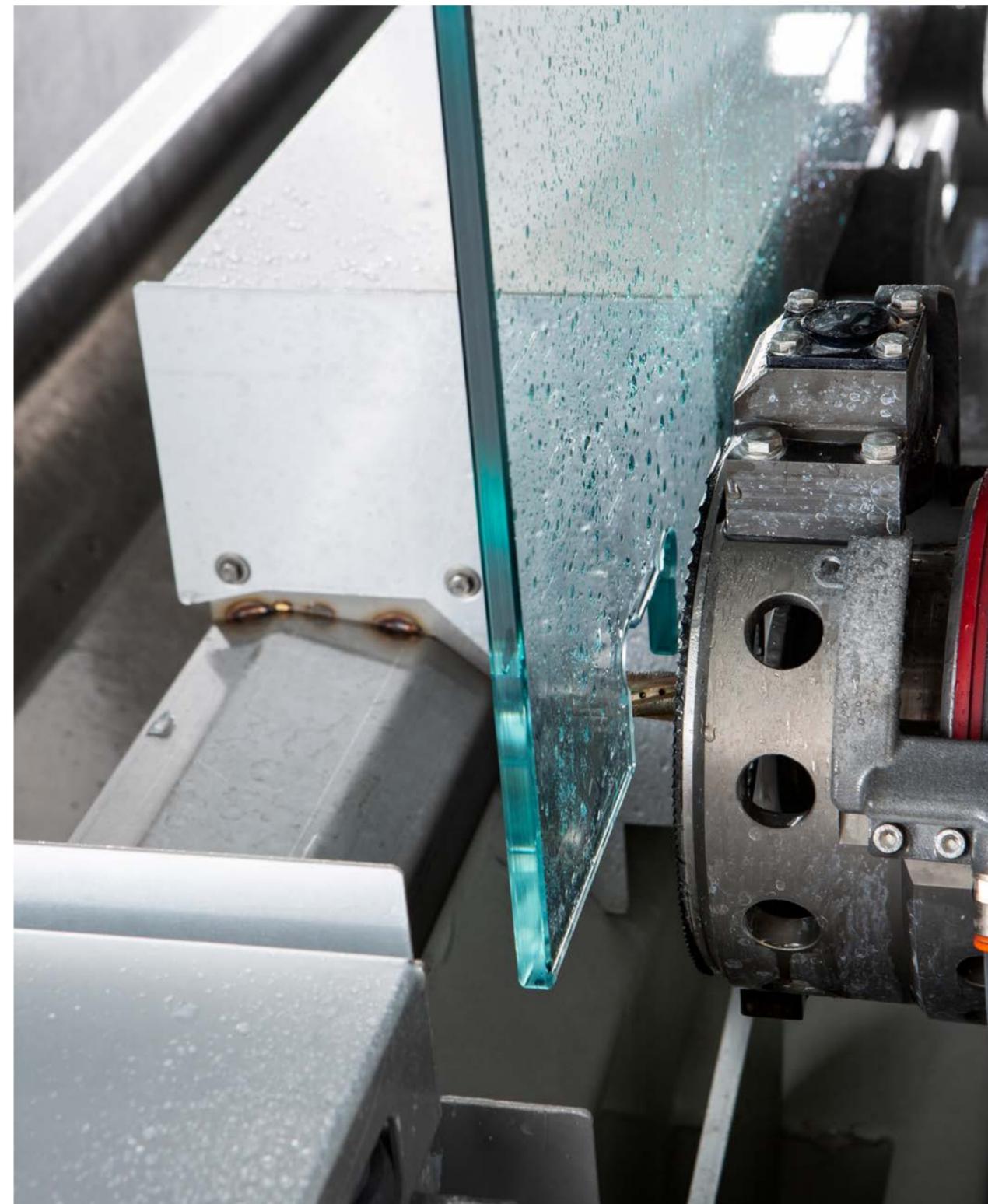


Batch One balustrades production

Balustrades production is one of the core job of Multi PRO M VOX, performing all the operations all at once. Holes, notches, peripheral 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



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.

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.

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.

IC: 5 steps to processing

Cad Cam extreme evolution.

Stay centered, stay stable

Perfect glass finishing is guaranteed 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 furnitures, to balustrades, to bathrooms, etc.



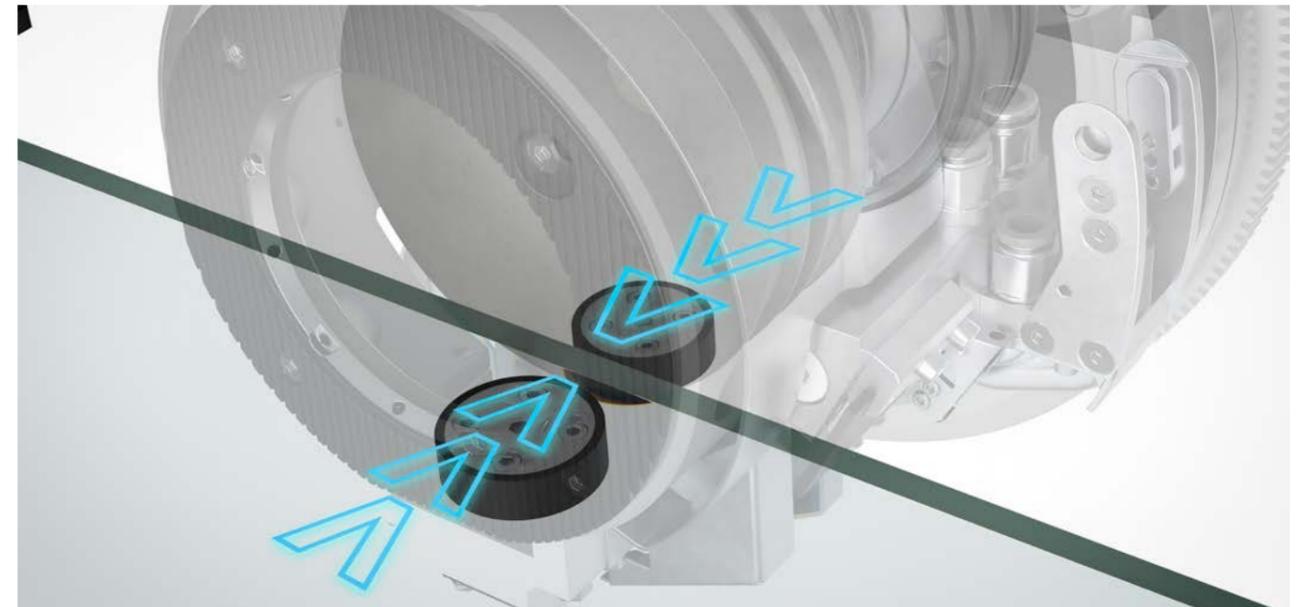
No setup stress

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 through 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.



"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.



Stay centered, stay stable

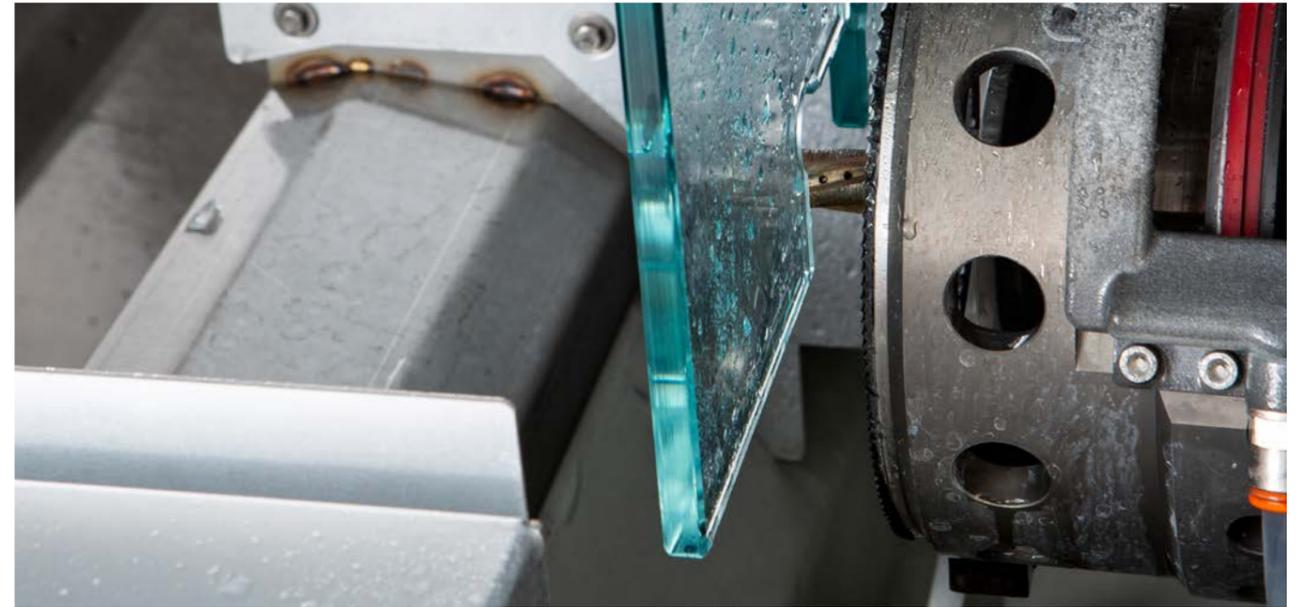
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the external perimeter of the glass. A pair of anti-friction copiers keeps the glass centered and stable granting a constant bevel and perfect finishing quality.



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.



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 jobs of Multi UP M VOX, performing all the operations all at once. Holes, notches, peripheral edging, everything just works smooth and fast.

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