

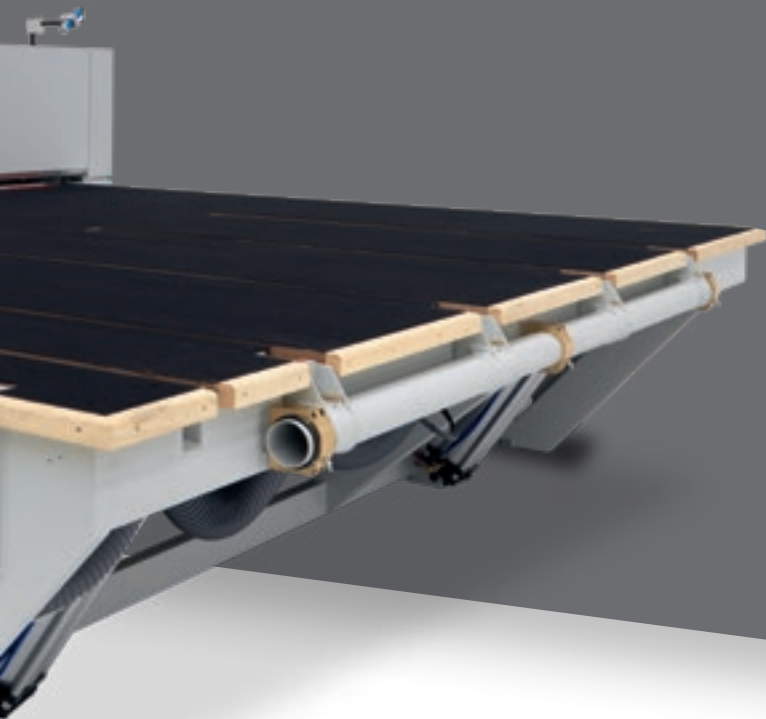
GE NIUS LM SERIES

TABLES FOR LAMINATED
GLASS CUTTING

THE PERFECT COMBINATION OF QUALITY AND PRECISION



Genius LM is the range of cutting tables for laminated glass aimed at companies that wish to automate their laminated glass cutting processes, and which require superior ease of use and an intuitive approach to machining for all glass thicknesses. The Genius LM family is designed to facilitate the handling of glass sheets and of the machine crosspiece, significantly improving productivity. The perfect combination of quality, productivity and flexibility, with maximum efficiency guaranteed.

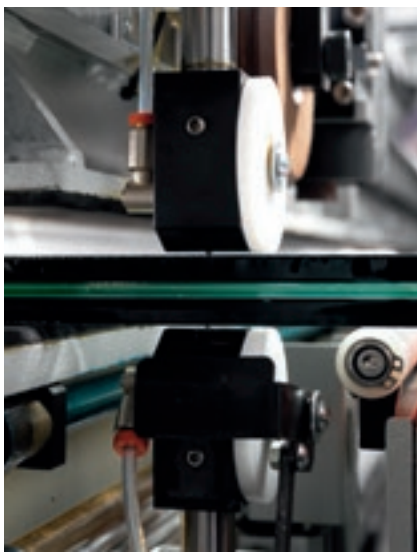


GENIUS_{LM}SERIES

- SIMPLE, INTUITIVE TECHNOLOGY
- MAXIMUM PERFORMANCE THANKS TO SUPERIOR ERGONOMICS AND FACILITATED HANDLING WHEN CHANGING BETWEEN MACHINING OPERATIONS
- COMPACT WORKING DIMENSIONS ENHANCED BY THE VERTICAL BUFFER (PATENTED) FOR ROTATION OF CROSSPIECES
- EXCELLENT CUTTING PRECISION

SIMPLE, INTUITIVE TECHNOLOGY

Genius LM guarantees the same technological solutions as the high-level systems used in the cutting lines of the largest industrial companies.

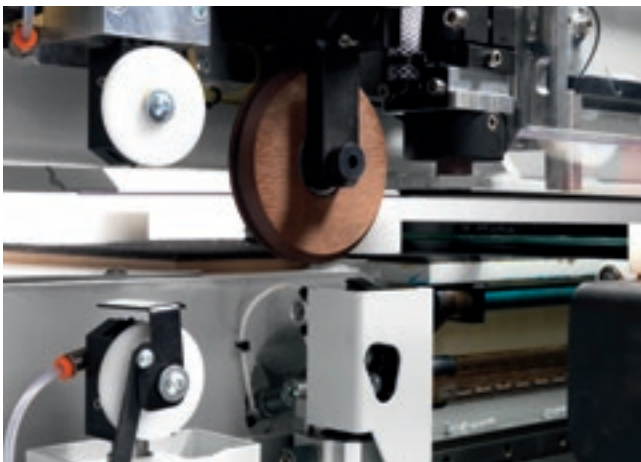


CUTTING

The Genius machines are equipped with a photocell to detect the beginning and end of the sheet, enabling free and angled cuts to be completed.

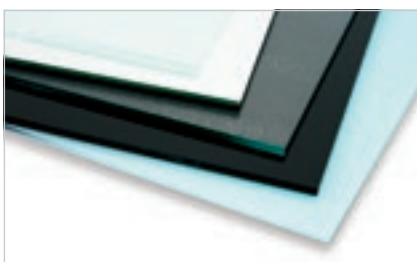
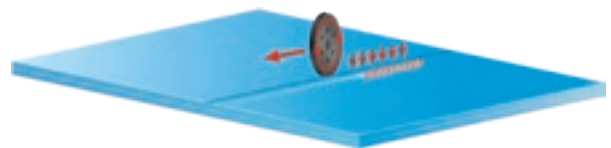
The cutting is carried out using very sensitive chucks mounted on carriages that are driven by brushless motors.

The cutting quality is guaranteed by the proportional electro-pneumatic control system that enables the power/speed ratio to be measured correctly.

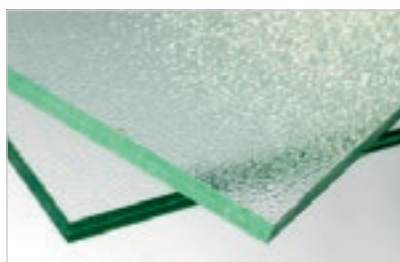


LOWER BREAKING OPERATIONS

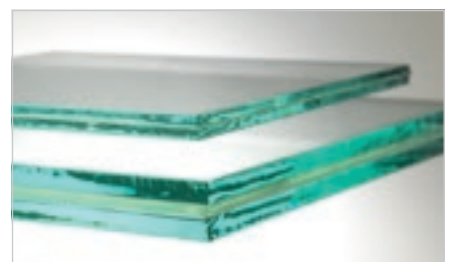
Lower breaking operations are carried out using a pneumatically-driven wheel, which is fitted directly onto the upper cutting carriage.



Machinable float glass.



Printed C glass.



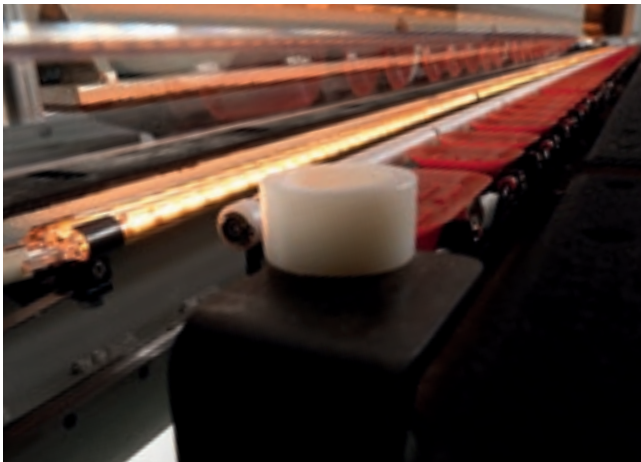
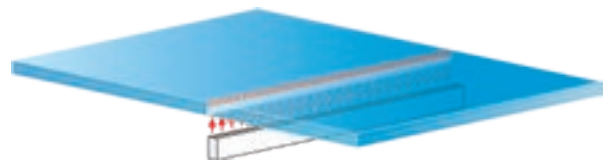
Laminated glass.

The rigid structure of the cutting bridge ensures superb results when machining glass of any thickness.



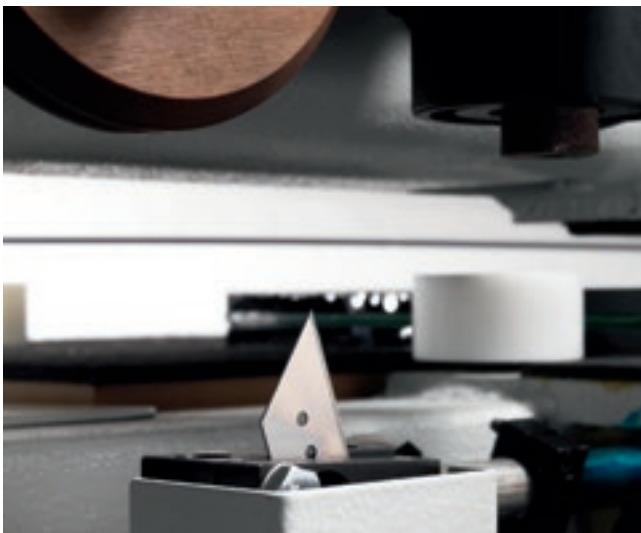
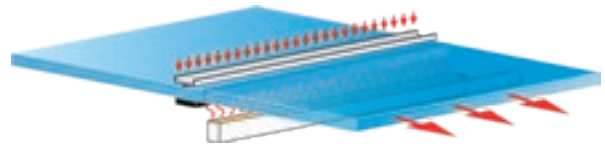
UPPER BREAKING

The two-position breaking bar, which can be programmed in accordance with the thickness of the glass, automatically shears the upper plate. On the surface of the bar there is a coloured line, to be used as a reference for angled cutting operations.



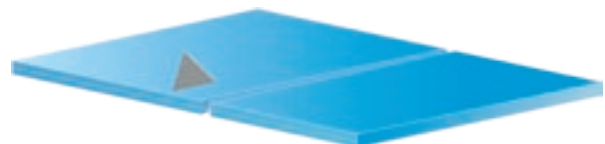
HEATING OF PLASTIC FILM

A short wave lamp warms the plastic film without overheating the glass. At the same time, the upper cutting bridge ensures that a portion of the sheet is held in place by pressing down on it, and a suction cup bar, which is pressed against the underside of the glass, enables the separation of the finished volume.



BLADE FOR CUTTING PVB

The blade mounted on the lower cutting carriage is particularly suitable for cutting PVB (> 0.76 mm), ensuring a high-quality finish on the edge.

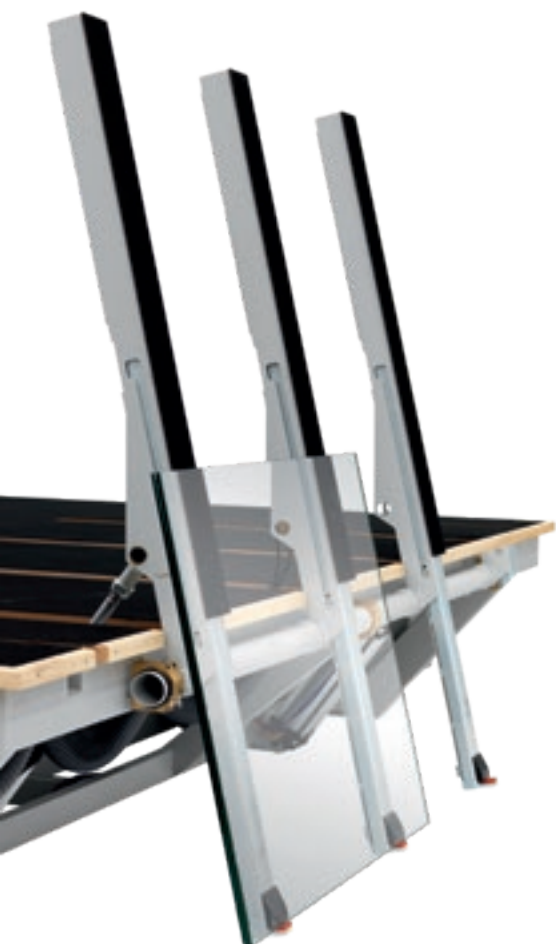
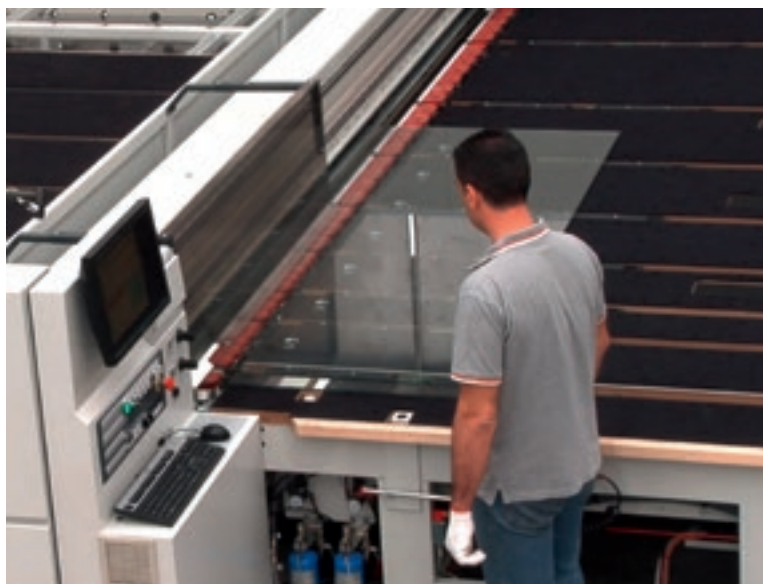


ERGONOMICS AND FACILITATED HANDLING

The sliding adjustment bridge, positioned under the work table, renders the working area fully accessible, facilitating handling when switching machining operations.

ERGONOMICS

The machine is fully open at the front, enabling the operator to follow all phases of the cycle in real time. The cutting, breaking, removal and diagonal positioning operations are fully visible, enabling each stage to be checked. The unloading of the finished volumes and waste is free from obstructions, and takes place directly in the operating zone, with no need to move.



TILTING ARMS

The machines are equipped with electro-pneumatic tilting arms for loading and unloading the sheets. Maximum sheet capacity 3710x2600 mm with a thickness of 1010.4.

HIGH PERFORMANCE



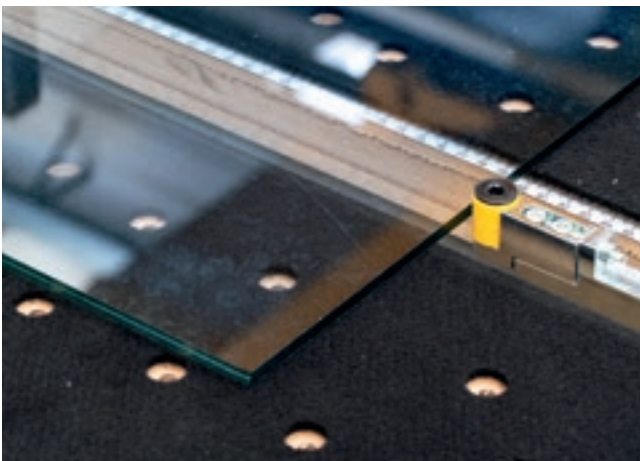
LASER FOR INCLINED CUTS

laser tracking system for diagonal cutting of coloured glass and/or high opacity glass.



BCR (BRUSH COATING REMOVAL) DEVICE

For removal of low-emissivity film via a motorised metal brush, with adjustable consumption recovery. Standard removal of 20mm width



AUTOMATIC REGISTRATION OF MEASUREMENTS

retractable mobile stop system for guidance - the operator pushes the plate against the stops to obtain the correct cutting dimensions. The stops are mounted on an adjustment bridge that slides under the table, leaving the work surface completely free from obstacles.



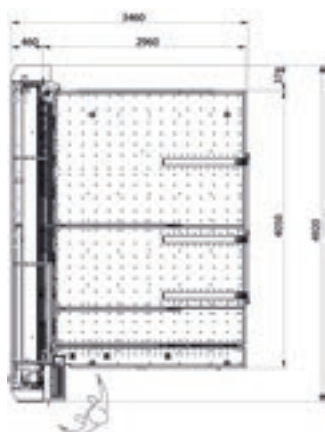
BELT UNIT 'AT ENTRANCE TO CUTTING MODULE

Thanks to the support of the belt assembly at the entrance of the cutting module, the operator remains in the zone for commanding operations/ unloading the finished volumes at all times, enabling high levels of productivity. The crossbar moves automatically until the last volume is reached.

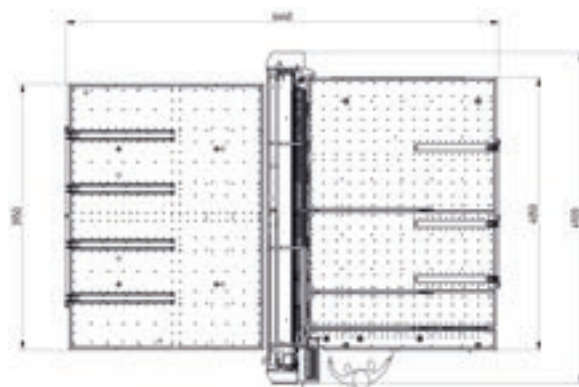
A SOLUTION FOR EVERY NEED

Biesse can offer solutions for the various different types of manufacturing operations and requirements of customers.

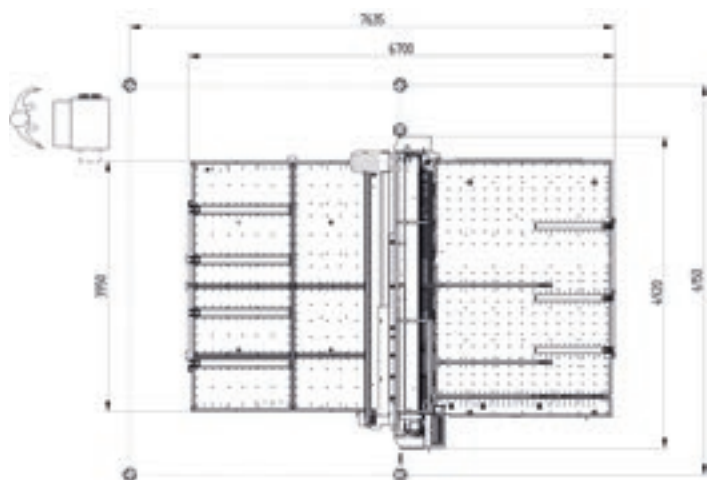
GENIUS 37 LM



GENIUS 37 LM+ RC

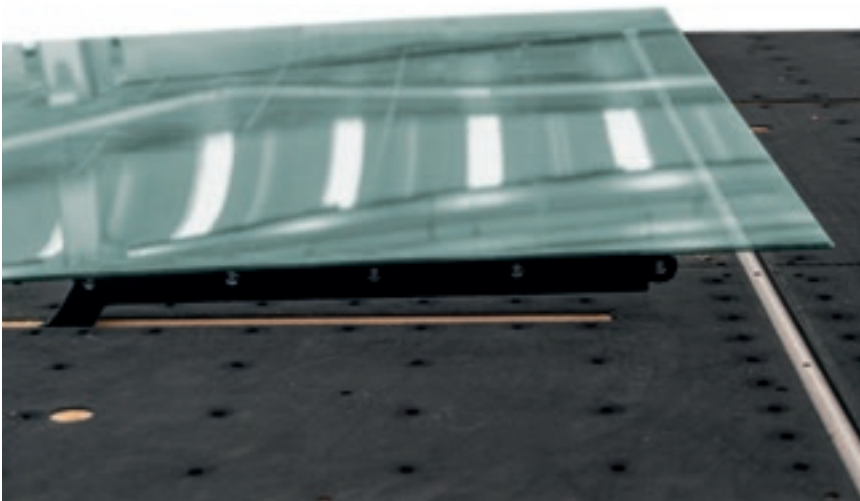
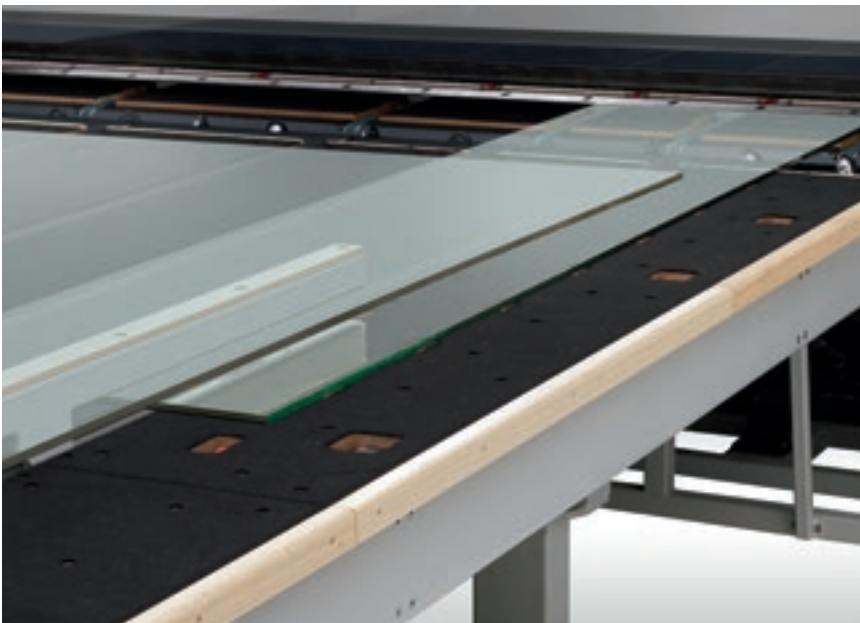


GENIUS DUO RS-37



OPTIMISATION OF SPACE WITHOUT COMPROMISING ON PRODUCTIVITY

- ▣ Maximum process automation, enabling more than 400 square metres of laminated glass be produced during each shift, within a limited space.
- ▣ The movement of the glass is completely automated.
- ▣ Option of performing X static breaking of crosspieces on float glass for Comby lines. This function can be facilitated by the addition of the RB management table for managing the breaking process at the end of the line.

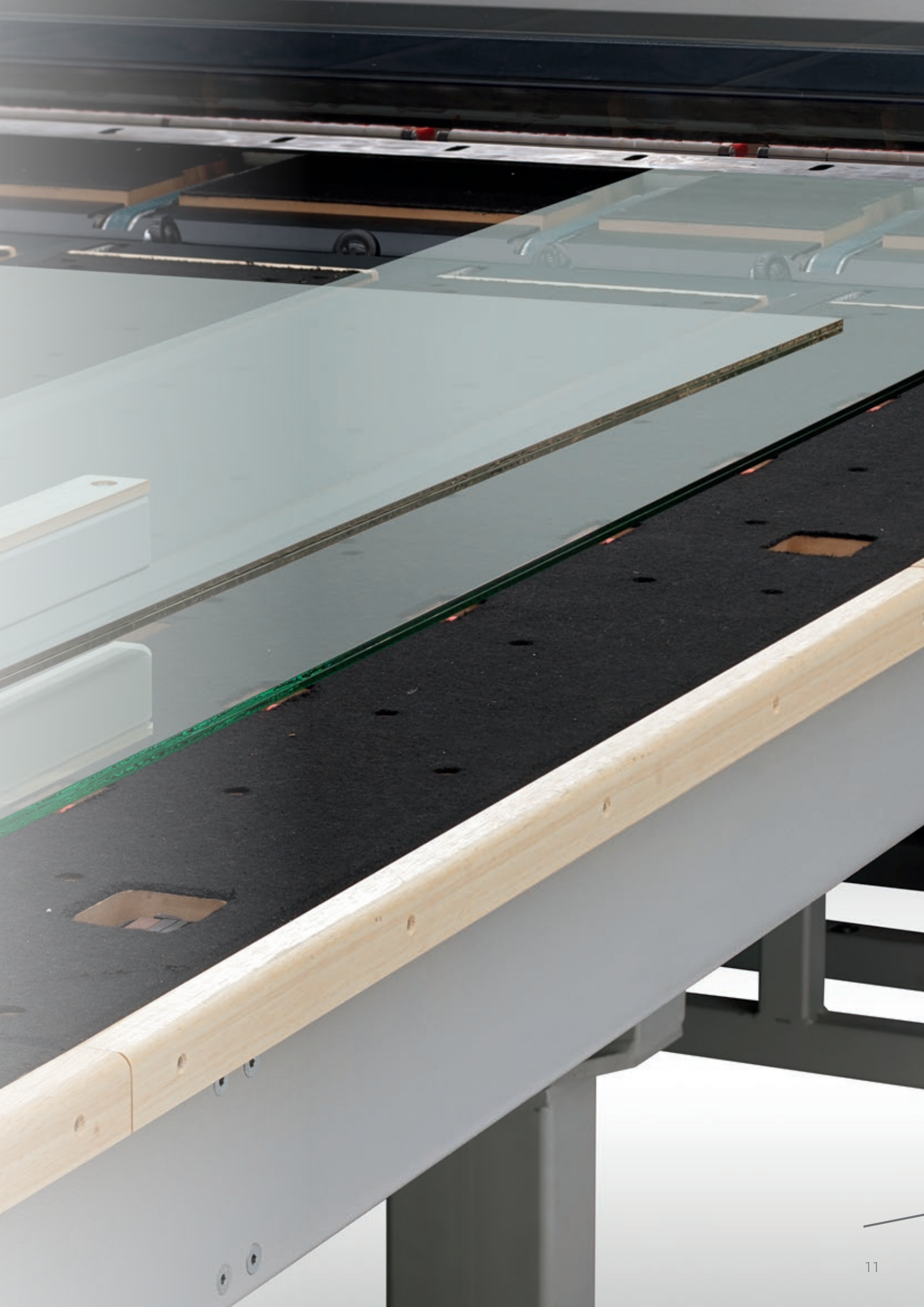


CO MBY

BIESSE TECHNOLOGY

The Comby are integrated lines in small spaces, for cutting both monolithic and laminated glass, with high productivity and arise from the combination intelligent among the Genius CT-RED cutting tables (for monolithic glass cutting) and Genius LM (for laminated glass cutting).



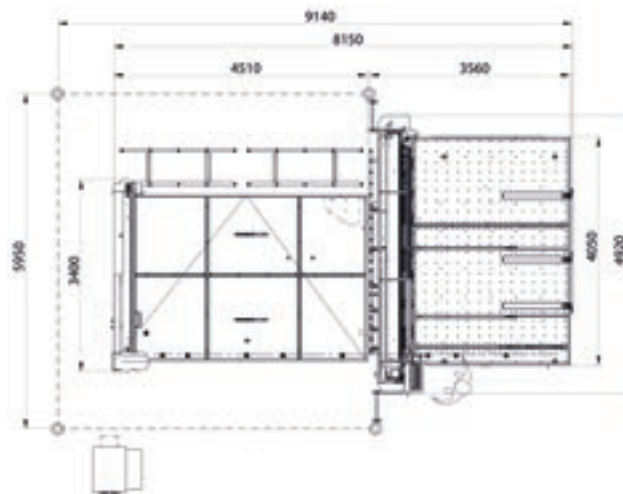


A SOLUTION FOR EVERY NEED

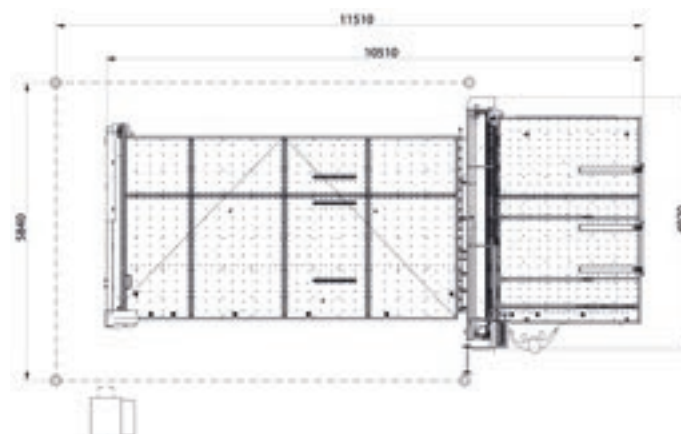
Biesse can offer custom solutions in accordance with the specific needs and production specifications of customers.

COMBY LINES

COMBY RED R-37 Stand-alone configuration

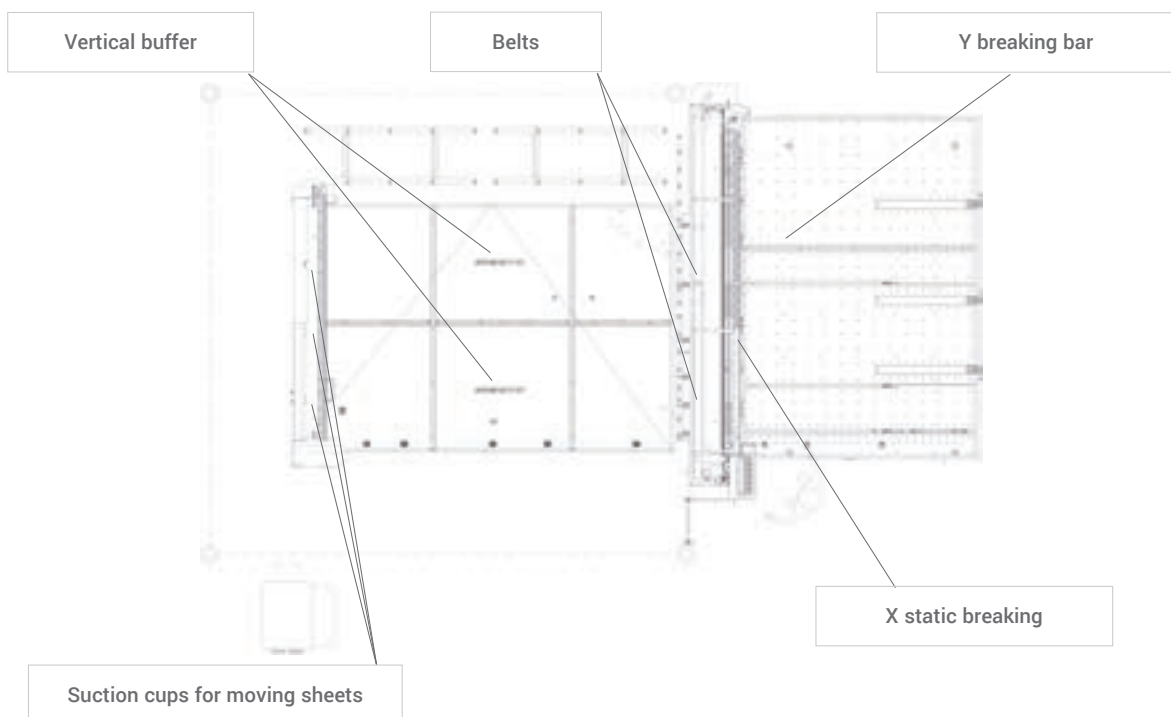


COMBY RED J-37 Stand-alone configuration



INTELLIGENT COMBINATIONS

The Comby lines represent the perfect combination of the two cutting tables, thanks to the addition of the belts on the table, the suction cups on the float cutting bridge, the vertical buffer, the belts on the LM cutting module and the breaking bar on the laminate table.



MAXIMUM EASE OF USE

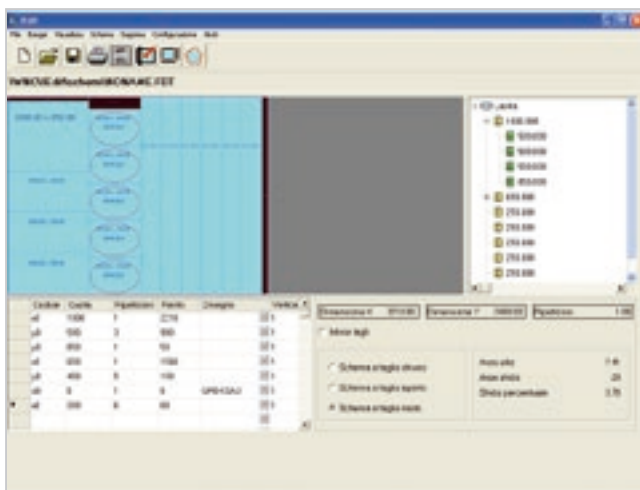


The operator interface is simple and intuitive, and enables cutting programmes generated by a range of the optimisers present on the market to be imported, courtesy of the integrated OTD (Optimiser Transferring Data) universal interface that automatically defines cutting parameters and generates the programme for the cutting table.

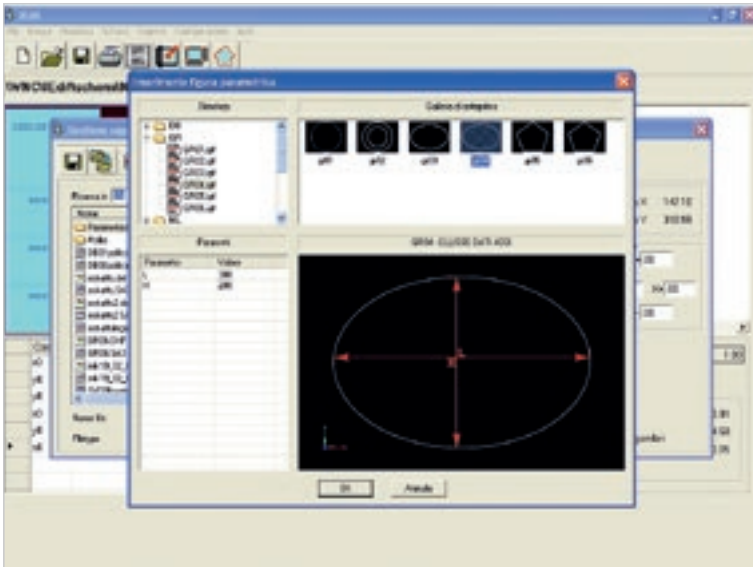


NUMERICAL CONTROL ON PC IWNC BASIS (WNC - INTERMAC WINDOWS NUMERICAL CONTROL)

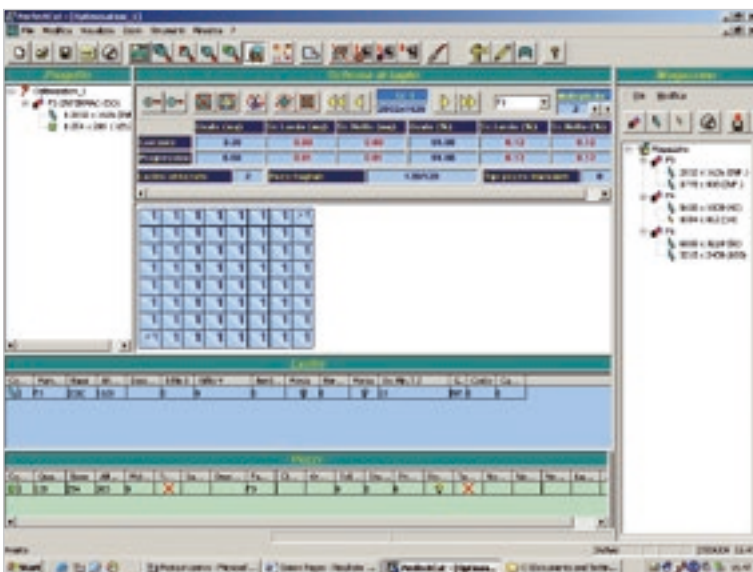
- Ideal both for those using CNC machines for the first time and those who already have programming experience.
- Management of the working parameters of the machine.
- Creation and modification of the cutting patterns and/or of geometric or non-geometric shapes.
- Modules for performing quick estimates and creating production reports.



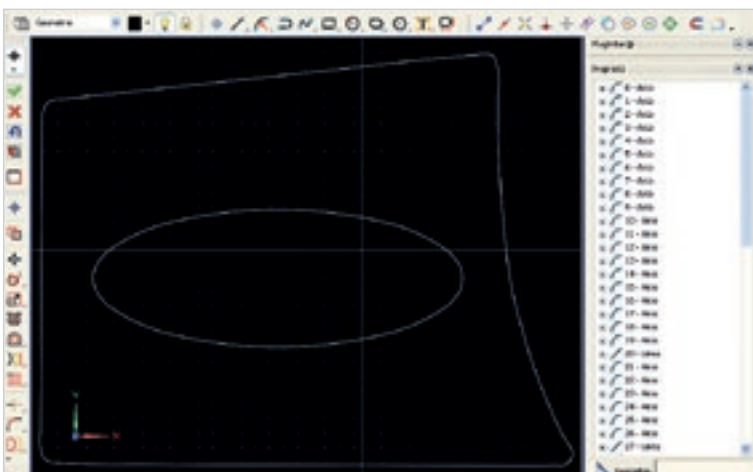
Cutting editor in the Windows environment, with a user-friendly graphic interface, for making straight cuts on sheets without employing the optimisation program. Particularly recommended for quick, immediate cuts, it can manage an endless number of nesting levels and also offers a function for inserting shapes in the glass sheets before cutting.



Parametric library on the machine, containing parametric shapes ready for the optimised cut and working directly on the machine.



Optimizer for straight and shaped cuts. Ideal for shaped cuts and open cuts, this software allows even the most complex production to be optimised to ensure minimum wastage.



Multi-tasking programming software in the Windows environment, for designing shapes complete with parametric programming, automatic geometric profile regeneration functions using a FreeForm function and an automatic function for optimising and regenerating the geometries of artistic shapes in .dxf format (for cuts on vinyl).

CUSTOMER CARE IS WHO WE ARE

SERVICES is a new experience for our customers, to offer not just excellent technology but the added value of an increasingly direct connection with the company, the professionals who work there and the experience they embody.



ADVANCED DIAGNOSTICS

Digital channels for remote interaction online 24/7. Always ready to intervene on-site seven days a week.



A WORLDWIDE NETWORK

39 branch offices, over 300 certified agents, retailers in 120 countries, and spare parts warehouses in America, Europe and the Far East.



SPARE PARTS AVAILABLE IMMEDIATELY

Identification, shipping and delivery of spare parts for every need.



EVOLVED TRAINING OPPORTUNITIES

Lots of on-site, online and classroom training modules for personalised growth.



VALUABLE SERVICES

A wide range of services and software packages to help our customers achieve continuous improvements in performance.

AN EXCELLENT LEVEL OF SERVICE

+550

HIGHLY SPECIALISED
TECHNICIANS AROUND THE
WORLD, READY TO HELP
CUSTOMERS WITH EVERY
NEED

90%

OF MACHINE DOWN CASES
WITH RESPONSE TIME
UNDER 1 HOUR

+100

EXPERTS IN DIRECT
CONTACT THROUGH
REMOTE CONNECTIONS AND
TELESERVICE

92%

OF SPARE PARTS ORDERS
FOR MACHINE DOWNTIME
PROCESSED WITHIN 24
HOURS

+50.000

ITEMS IN STOCK IN THE
SPARE PARTS WAREHOUSES

+5.000

PREVENTIVE MAINTENANCE
VISITS

80%

OF SUPPORT REQUESTS
SOLVED ONLINE

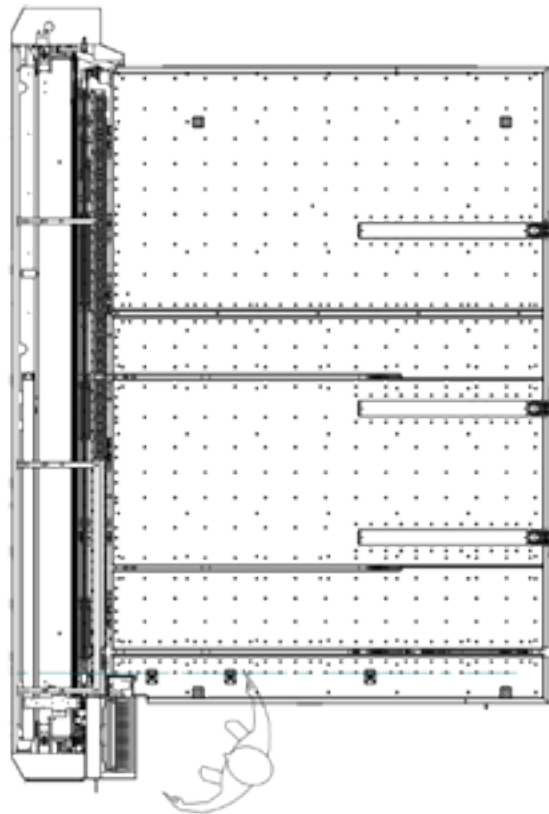
96%

OF SPARE PARTS ORDERS
DELIVERED IN FULL ON TIME

88%

OF CASES SOLVED WITH THE
FIRST ON-SITE VISIT

TECHNICAL SPECIFICATIONS



GENIUS 37 LM

Maximum effective cut length	mm	3710
Minimum squaring	mm	110
Maximum squaring	mm	3210
Laminate sheet thicknesses	mm	33.1 - 1010.4
Float glass sheet thicknesses	mm	3 - 10
Minimum breaking	mm	20 - 60
Minimum separation	mm	20 - 60
Max cutting speed	m/min	150
Cutting accuracy	mm	See specifications
Work table height	mm	900 (-15 ÷ 45)
Power requirements	kW	16.8 / 22.6

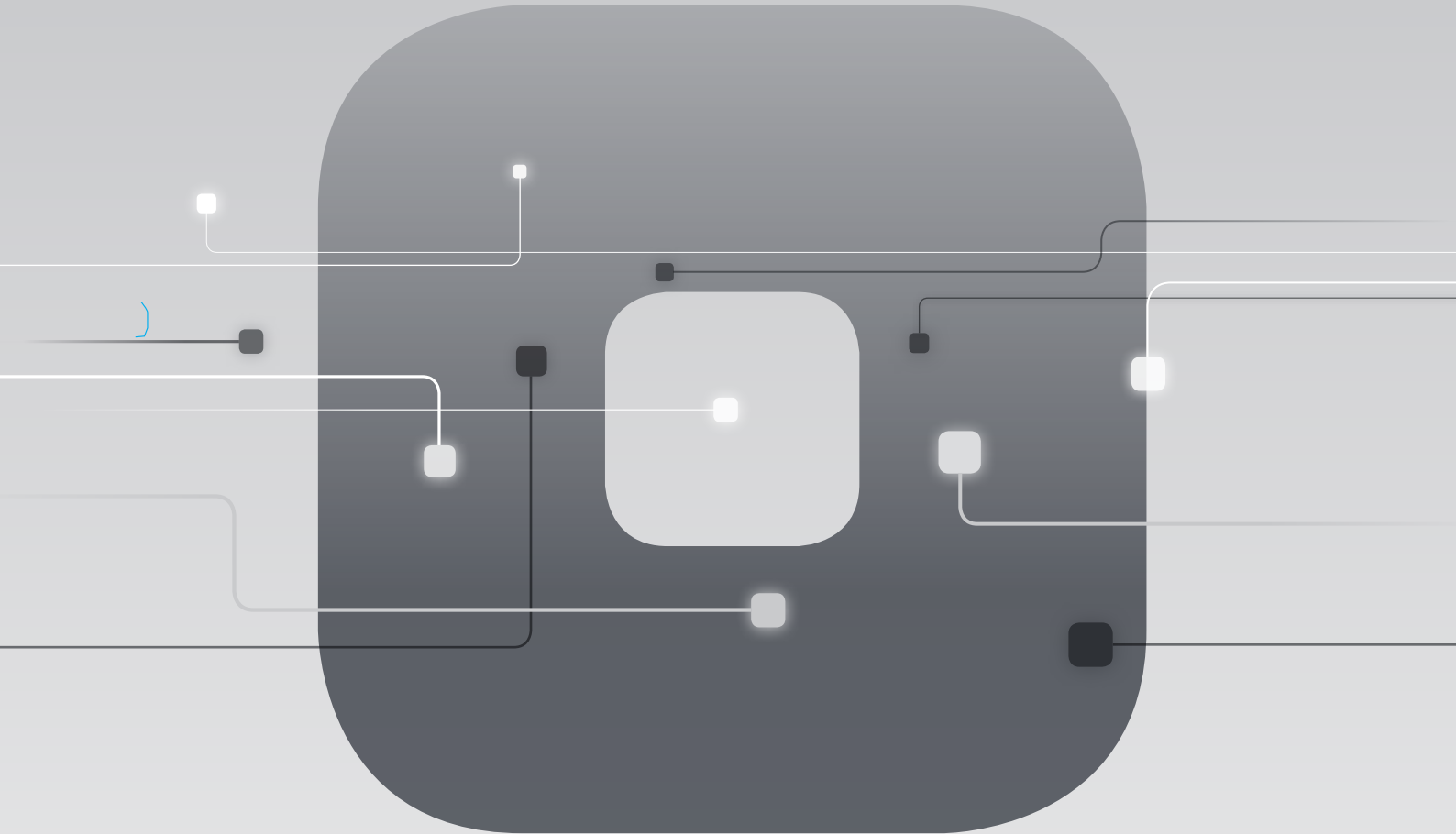
The technical specifications and drawings are non-binding. Some photos may show machines equipped with optional features. Biesse Spa reserves the right to carry out modifications without prior notice.

Weighted sound pressure level A (LpA) 76 dB Genius 37 LM - Genius 37 LM C 37 Uncertainty of measurement K = 4dB (A).

The measurement was carried out in compliance with UNI EN ISO 3746, UNI EN ISO 11202 and subsequent amendments. The noise levels shown are emission levels and do not necessarily correspond to safe operation levels. Even though there is a relation between emission levels and exposure levels, this cannot be used reliably to establish whether or not further precautions are necessary. The factors determining the actual noise levels to which the operating personnel are exposed include the length of exposure, the characteristics of the work environment, other emission sources (e.g. the number of machines and machining operations nearby). At any rate, the above information allows the operator to better evaluate dangers and risks.

SOPHIA

GREATER VALUE FROM MACHINES



The Biesse IoT platform which enables customers to access an extensive range of services to streamline and rationalise their work management processes.

□ SERVICES

□ PROACTIVITY

□ ANALYSIS

INDUSTRY 4.0 READY

Industry 4.0 is the latest industry frontier, based on digital technologies and machines that speak to the companies. The products can be interconnected with the production processes via smart networks.

Biesse's commitment is to transform our customers' factories with real-time technology, ready to guarantee digital manufacturing opportunities, with smart machines and software packages becoming vital tools that facilitate the daily tasks of people all over the world processing glass, stone, metal and more. Our philosophy is a practical one: to supply entrepreneurs with solid data that can help them to lower their costs, optimise their processes and improve their results.

And that means being 4.0 ready.

INDUSTRY 4.0 READY



MADE WITH BIESSÉ

GLASS ART AND CUTTING-EDGE TECHNOLOGY

"In Fiam's workshops, we have always tried to respond to designer ideas, even when they were apparently impossible to implement. Designers, like artists, have a creativity that stimulates cutting-edge innovation. So, over time, we have been able to develop new technologies that have allowed us to create unique objects on an industrial scale".
"Everything started with a stool. A glass stool, of course. A photographer friend came to see me in my glass workshop, saw me standing on the stool and took a picture that was published in some

newspapers. That's when I thought: why not try to make furniture with this material?

From the first, self-built oven to bend glass sheets through to the first collaborations with artists and designers, it's been an ongoing learning curve.

Along with design innovation, Fiam has always invested in technological innovation too. In this respect, the partnership with Intermac for the development of solutions such as double-edging grinding machines and the Master processing centres range is a strategic one.

Our company has always worked in partnership with internationally-renowned Italian and foreign designers.

People like Massimo Morozzi, Rodolfo Dordoni, Giorgetto Giugiaro, Enzo Mari, Cini Boeri through to Vico Magistretti, Ron Arad, Makio Hasuike. Not forgetting Philippe Starck, Daniel Libeskind and Massimiliano Fuksas".

*Vittorio Livi,
founder and sole director
Fiam Italia, Italy*

Founded in Italy,
international native.

We simplify your
manufacturing
to make the process
of any material



ur
g process
potential
I shine.

We are an international company that manufactures integrated lines and machines to process wood, glass, stone, plastic and composite materials and what will come next.

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

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