

GE NIUS RS-A

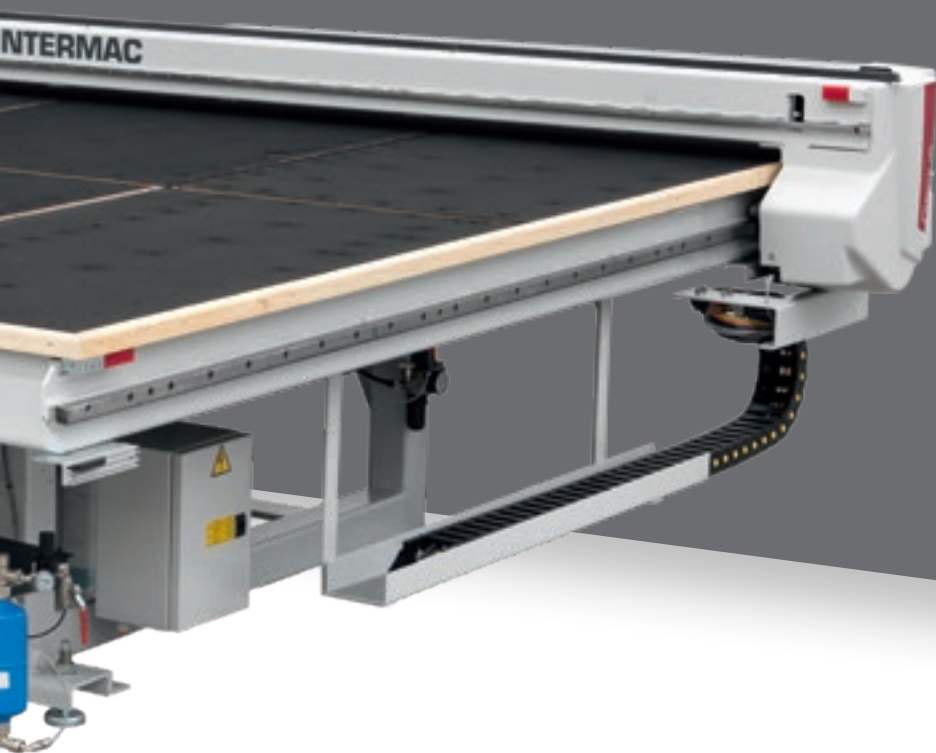
FLOAT GLASS
CUTTING TABLES



ALL FUNCTIONS IN A SINGLE SOLUTION



Genius RS-A is the entry-level cutting table for float glass that offers the same technological solutions as the high-level systems used in the cutting lines of the biggest industry operators. It optimises the sheet being machined in order to maintain high levels of cutting precision over time, guaranteeing a great return on investment.

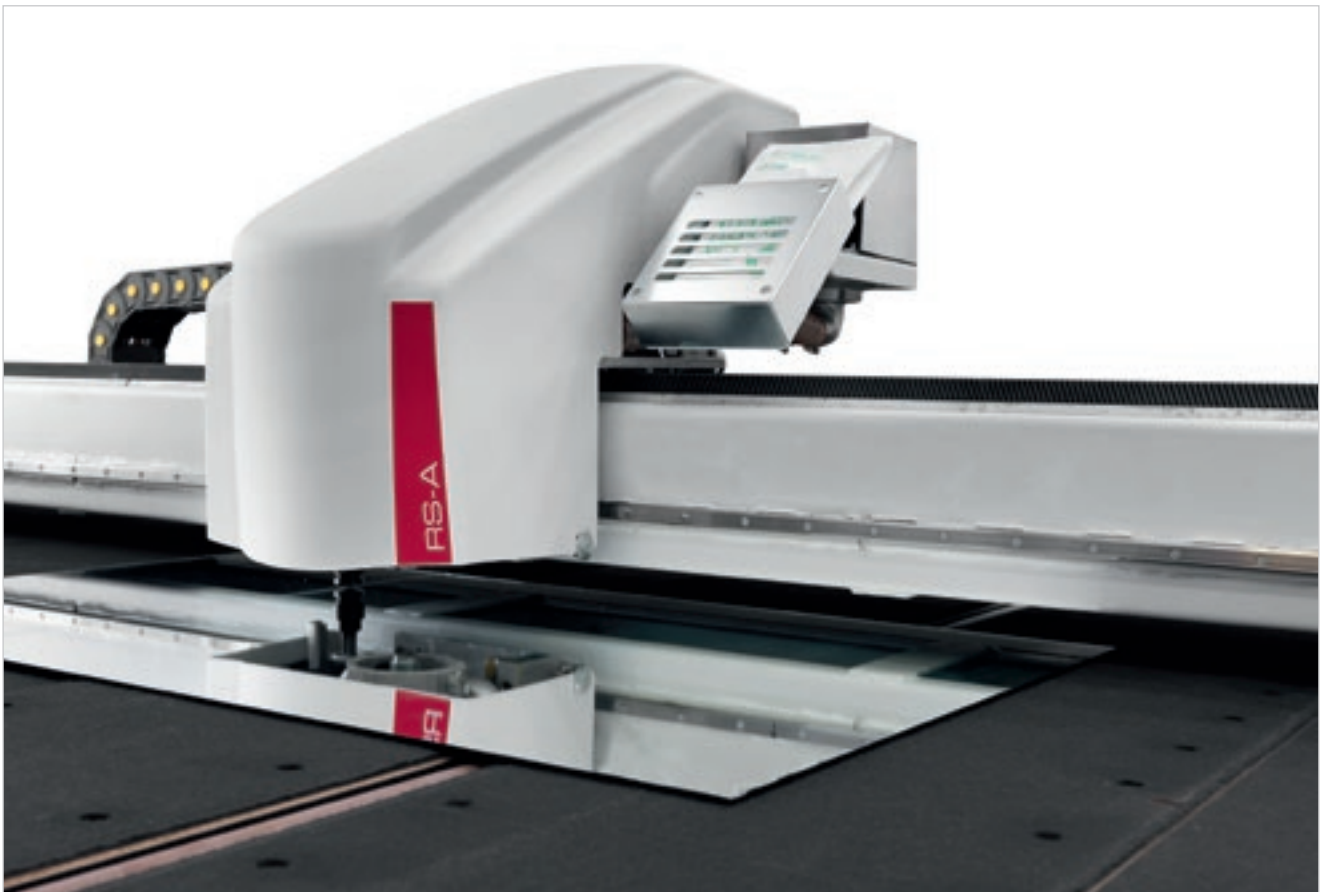


GENIUS_{RS-A}

- ✓ **ERGONOMIC AND COMPACT, THANKS TO SIGNIFICANTLY REDUCED OVERALL SIZE AND HEIGHT**
- ✓ **UNPRECEDENTED RELIABILITY OVER TIME**
- ✓ **EXTREMELY HIGH CUTTING ACCURACY**
- ✓ **ABSOLUTE MACHINING FLEXIBILITY FOR FLOAT GLASS AND VINYL CUTTING AND LOW E REMOVAL, ALSO SUITABLE FOR CUTTING NEW-GENERATION CERAMIC MATERIALS**
- ✓ **EASY TO USE THANKS TO THE INNOVATIVE SOFTWARE**

EXTREMELY HIGH CUTTING ACCURACY

Genius RS-A is the best entry-level cutting table on the market and is the ideal solution for making the transition towards more automated production processes.

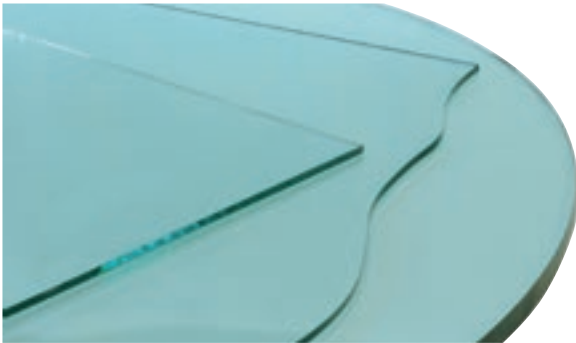


VINYL CUTTING

Genius RS-A cutting tables guarantee superb machining quality, even when cutting vinyl.

The Genius RS-A optimises the sheet being machined in order to maintain high levels of cutting precision over time, guaranteeing an optimal return on investment.

The Genius cutting table ensures excellent optimisation of the material to be cut, with waste reduced to zero.

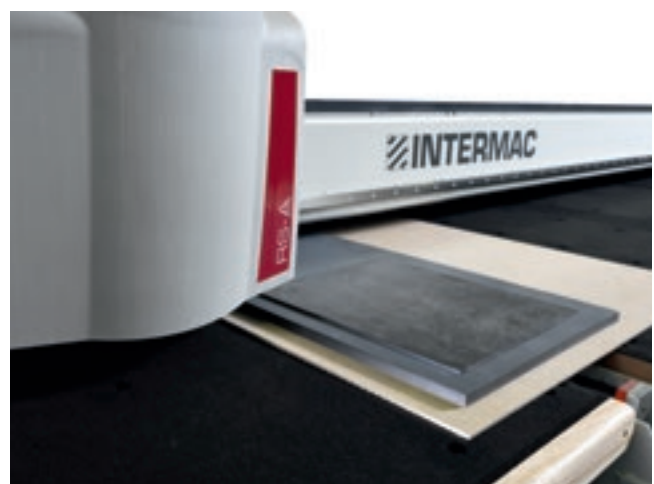


GENIUS CAN CUT THICKNESSES FROM 3 TO 19 MM, WITH:

- acceleration of up to 10m/s
- axis movement speed of up to 200m/min
- working head position precision to within $\pm 0.15\text{mm}$

ALSO IDEAL FOR CERAMIC MATERIALS

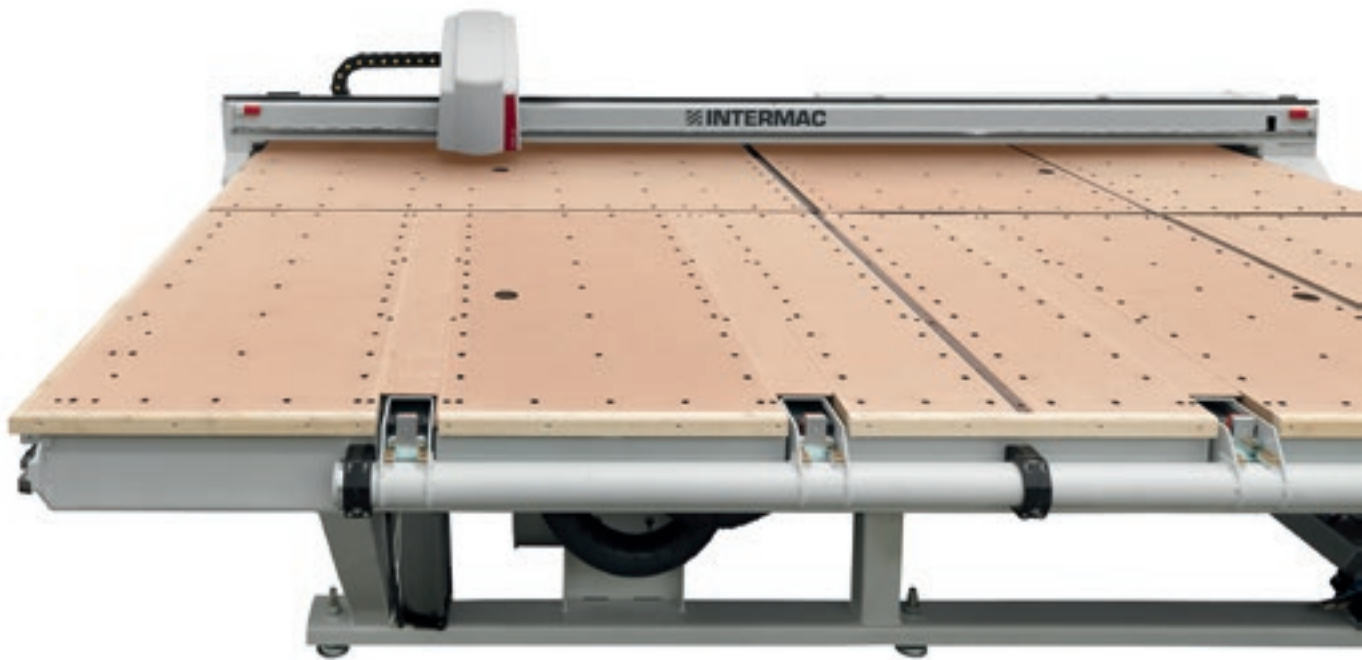
Biesse expands its cutting horizons to low-thickness ceramic materials, with a new technology that enables pieces of up to 12 mm thick (for linear cuts) and 5 mm thick (for shaped cuts) to be cut with ease.



The Genius RS-A enables linear and shaped ceramic sheets to be dry-cut in a simple, intuitive manner.

UNPRECEDENTED RELIABILITY OVER TIME

Offering features derived from high-end technologies along with superb performance, the Genius RS-A guarantees consistent, accurate machining results over time, as well as extreme ease of use.



MAXIMUM PERFORMANCE AND PRECISION THANKS TO THE PLANARITY OF THE GROUND WORK TABLE

The base of the machine is made from a rigid, rectangular structure onto which ground wood panels are attached, ensuring maximum planarity of the working area, essential for optimal glass machining and break-out operations.



The entire Genius range is designed for cutting lines that can work perfectly on two or three shifts, and which are used to process large volumes.

A motorised gantry axis moves the cutting bridge, and ensures maximum precision and stability during machining.

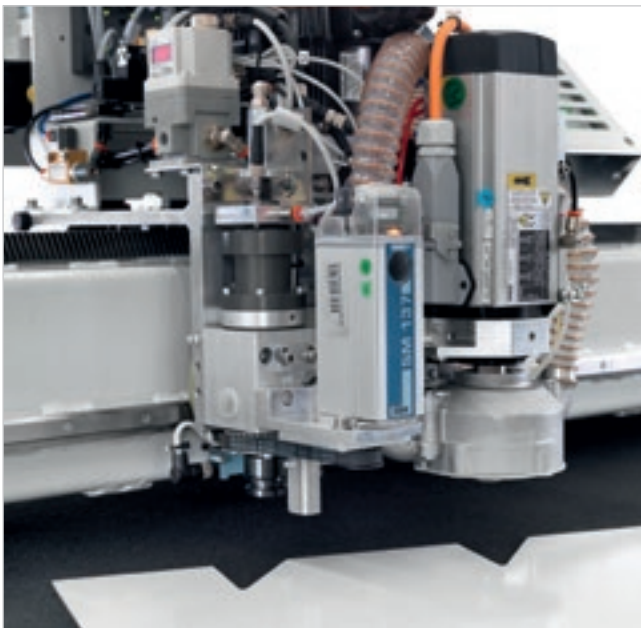


The working head is equipped with an automatic cutting pressure management mechanism that enables the force exerted by the wheel to be adjusted correctly, from the beginning to the end of the cutting operation. The management of the axle speed and the high quality of all of the electronic and mechanical components enable machining times to be optimised, ensuring flexibility and dynamism.

CUTTING LUBRICATION

The delivery of lubricant oil for the wheel occurs in line with the speed of execution of the shape, and with the specific straight or shaped cutting requirements, eliminating waste and simultaneously improving machining results. Precise oil stream dosing with no "drop" effect.

REDUCED CYCLE TIMES AND INCREASED PRODUCTIVITY



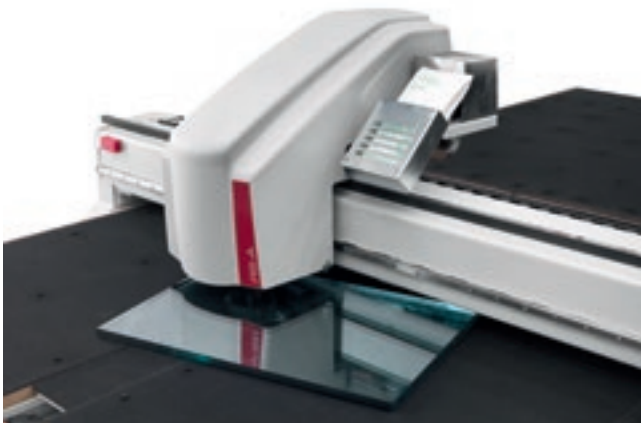
OPTICAL READER FOR SHAPES

The optical reader for "learning" shapes scans for points on the surface of the template, regardless of the type of material. The management software automatically regenerates the profile detected, enabling the shape to be cut immediately. One of the many advantages of this system is its ability to detect the internal and external profiles of the template in a single passage, preventing the operator from having to perform multiple independent scan cycles, resulting in reduced waiting times and room for error.



OPTICAL READER FOR ORIENTATION OF GLASS SHEET

The optical reader on the working unit recognises the placement of the sheet on the work table, and enables machining operations to be carried out without having to position the sheet to be moved periodically, reducing waiting times and ensuring maximum precision when zeroing the sheet. This device also performs the "double zero" function for cutting glass with extreme precision.



BREAK-OUT BARS

Transverse and longitudinal pneumatic bars for easy glass shearing.



Genius RS-A can perform low emissivity (Low-E) removal operations, thanks to a series of optional devices dedicated to the various production requirements.

LOW-E REMOVAL

BCR (BRUSH COATING REMOVAL) DEVICE

For removal of the Low-E coating with a motorised metal brush with a diameter of 20 mm, and a mechanical brush wear compensation system designed to ensure consistent Low-E removal results.



AN INTELLIGENT AND COMPACT COMBINATION

The combination of the two Genius RS-A cutting tables for float glass and the Genius LM cutting table for laminated glass represents a smart, compact solution for companies that need to work with both of these materials.

The combination of these two cutting tables enables time savings of up to 30% when loading the next sheet, using one table for cutting and the other as a "service" table.

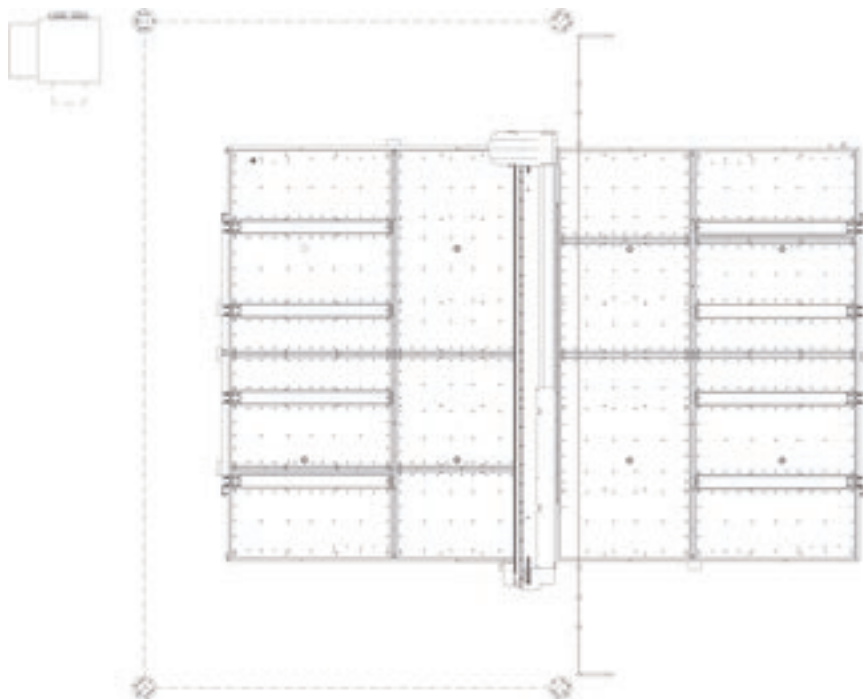


**TWO MACHINES IN ONE COMPACT PACKAGE:
PARTICULARLY SUITABLE FOR COMPANIES
WITH LIMITED SPACE THAT PRODUCE A RANGE
OF PRODUCTS.**

A SOLUTION FOR EVERY NEED

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

The Genius RS-A can work as a stand-alone machine, and once the sheet has been positioned, it is possible to perform all loading, cutting, break-out and unloading operations, as necessary.



The Genius RS-A can also be combined with RB break-out tables or RC loading tables, in accordance with the customer's specific production requirements.

COMPACT, ERGONOMIC LOADING SOLUTIONS

With the Genius RS-A, the majority of the operations required for cutting glass sheets can be automated. The Genius RS-A offers small businesses a tool that was originally designed for industrial use, enabling these firms to take a major leap forward in terms of productivity and reduction in wasted time.



The Genius RS-A is compact in terms of both width and height, thanks to the tilting arms that only extend to a maximum of 2.5 metres.



The machine operator launches the production cycle from the machine control area.



The retractable load feet automatically extend from the work table.



The tilting arms exit from the work table.



The tilting arms automatically reach the loading position.



The machine operator manually loads the glass sheet on the tilting arms.



The tilting arms automatically put the glass sheet on the work table.



The tilting arms automatically put the glass sheet in the working position.



The drop-down feet automatically move back to their safety position for the cut cycle start. The operating head automatically begins the cutting cycle.



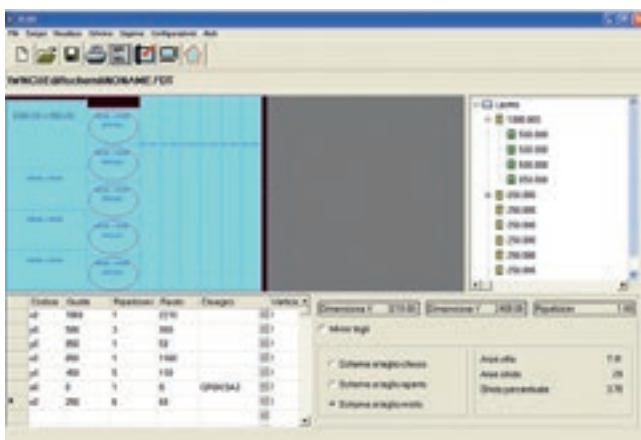
MAXIMUM EASE OF USE

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.

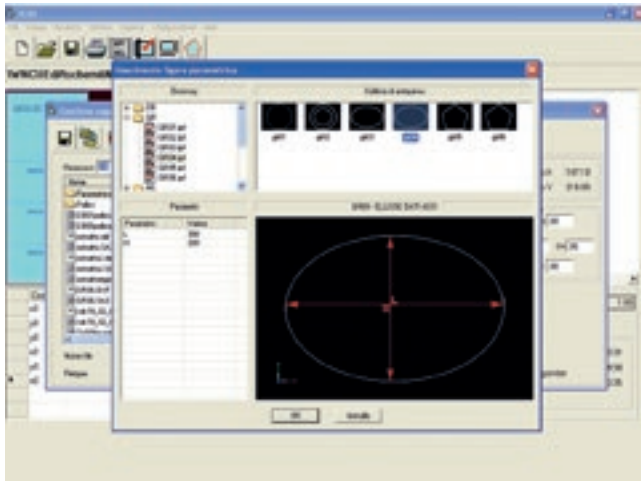


Numerical control on PC IWNC base (IWNC - Intermac Windows Numerical Control)

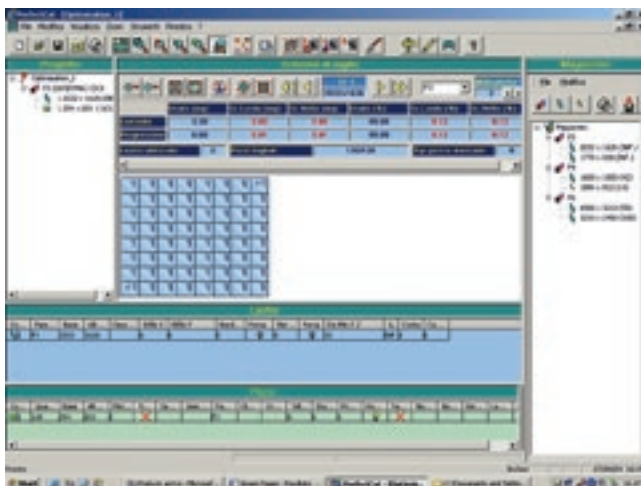
- Ideal both for those using CNC machines for the first time and those who already have programming experience.
- Management of the working parameters of the machine.
- Creation and modification of the cutting patterns and/or the geometric or non-geometric shapes.
- Modules for quick estimate calculation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



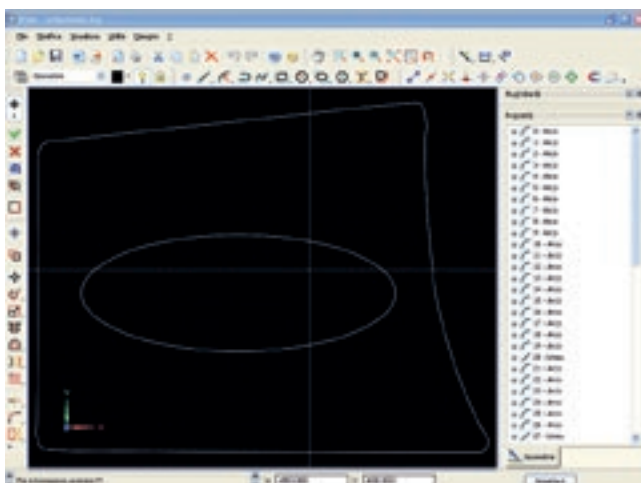
Cutting editor in the Windows environment, with a user-friendly graphic interface, for making straight cuts on sheets without employing the optimisation program. Particularly recommended for quick, immediate cuts, it can manage an endless number of nesting levels and also offers a function for inserting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



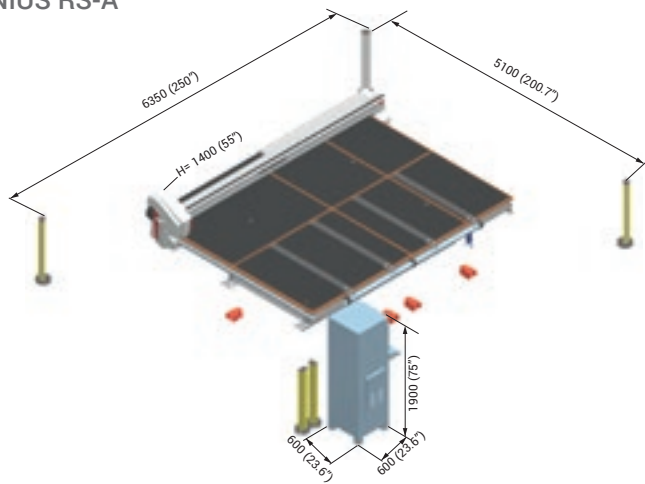
Optimiser for straight and shaped cuts. Ideal for shaped cuts and open cuts, this software allows even the most complex production to be optimised to ensure minimum wastage.



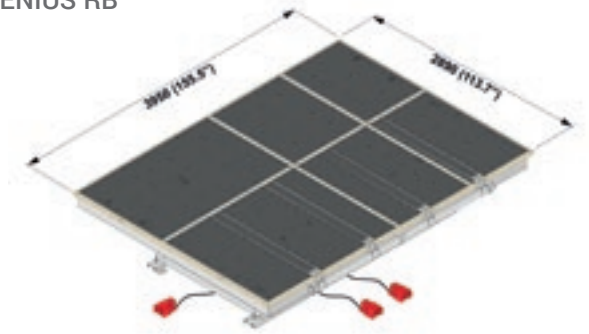
Multi-tasking programming software in the Windows environment, for designing shapes complete with parametric programming, automatic geometric profile regeneration functions using a FreeForm function and an automatic function for optimising and regenerating the geometries of artistic shapes in .dxf format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

TECHNICAL DATA

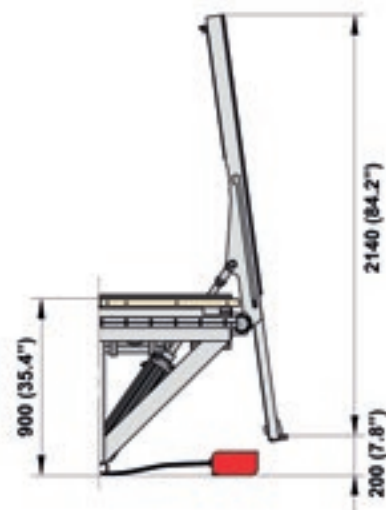
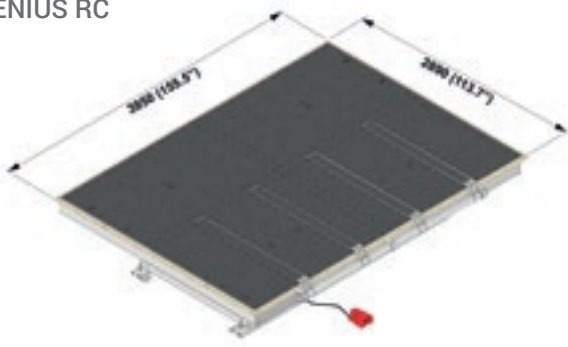
GENIUS RS-A



GENIUS RB



GENIUS RC

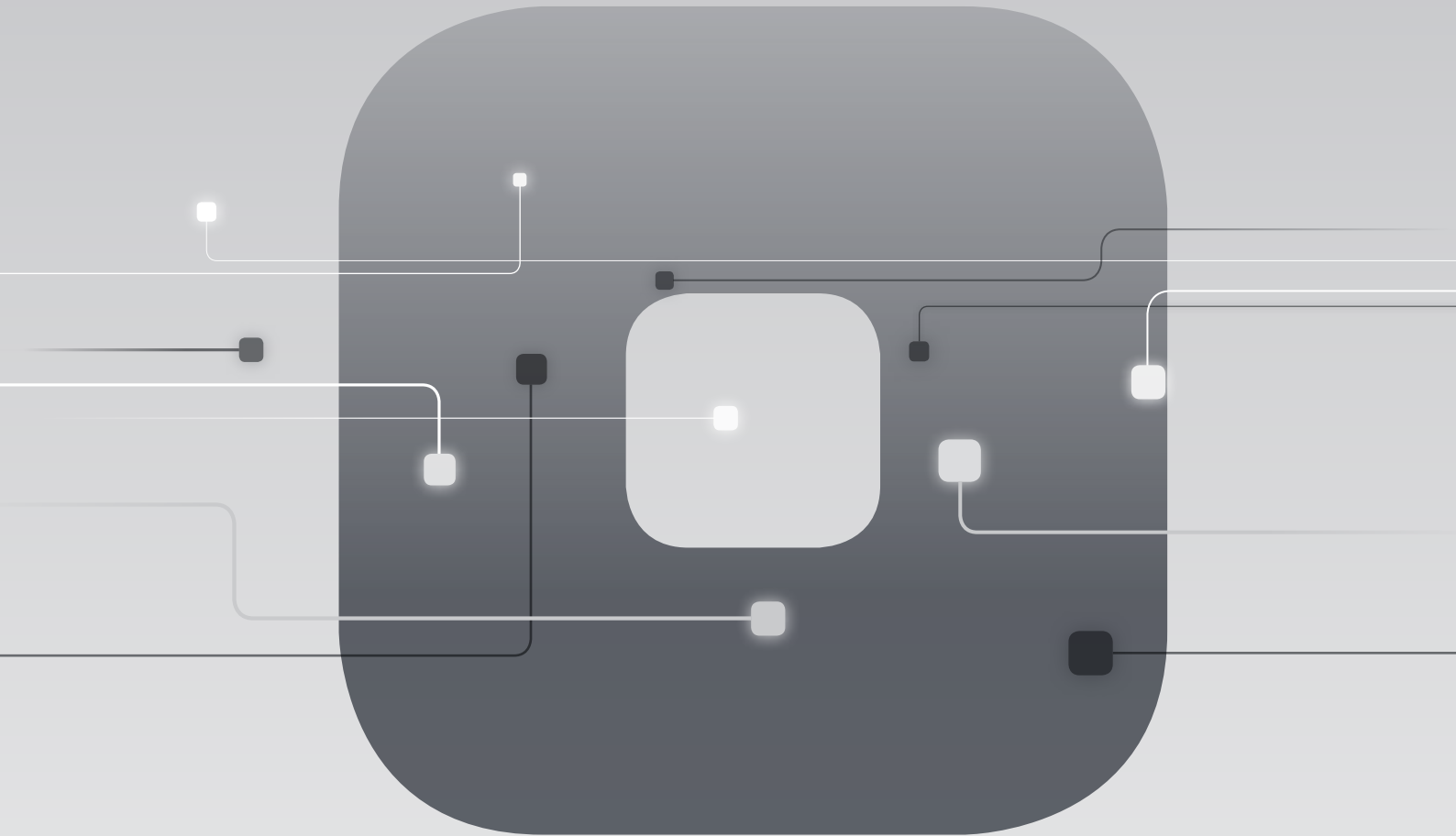


GENIUS RS-A

Machinable dimensions	mm	3710 x 2600
Machinable thickness	mm	3 - 19
Max axle movement speed	m/min	200
Max acceleration	m/sec ²	10
Positioning precision of the working head	mm	+ - 0.15
optimisation of straight and shaped cutting		SI
Break-out bars		2+1
Maximum loadable sheet size	mm	3710x2600x19
Maximum unloadable sheet size	mm	3710x2600x12 (300 kg)
Work table height	mm	900 (-15,+40)

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

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

PROTECTION AND SAFETY FOR ALL MACHINING OPERATIONS

Biesse has always paid the utmost attention to the health and safety of its customers. The protection of every operator during the use of the machine is of vital importance, preventing any possible distraction or error that could lead to inconvenience or even accidents.



One indispensable condition for obtaining any sort of financing is the respect of the machinery directives and workplace health and safety regulations.

MADE WITH BIESSE

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.

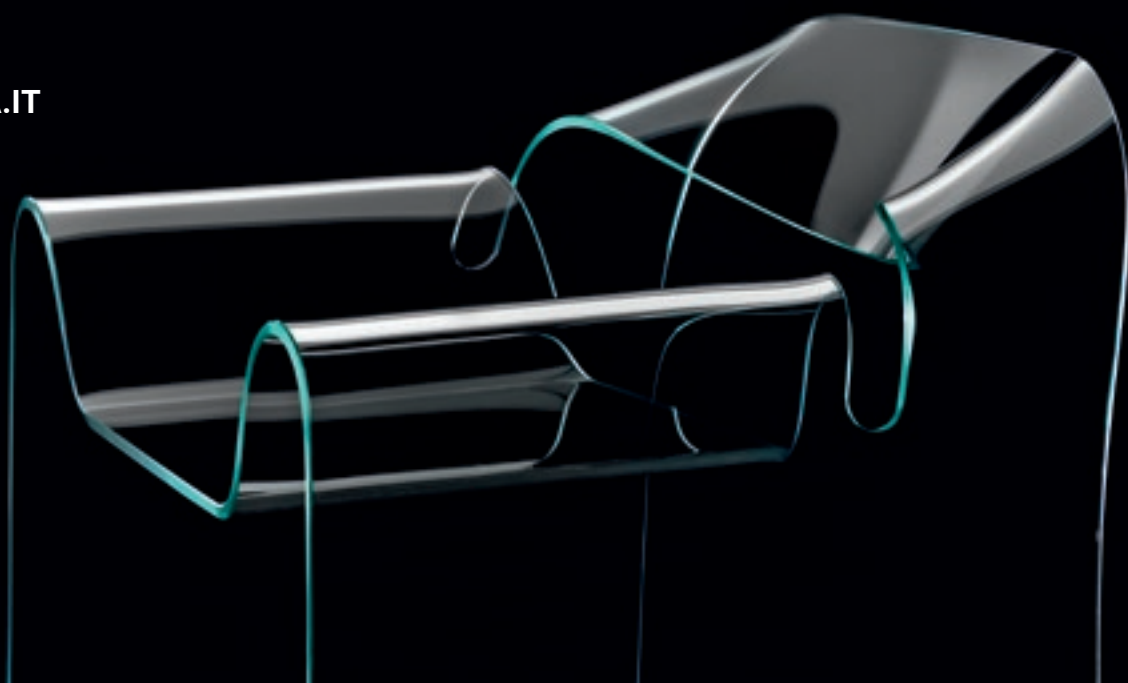
Along with design innovation, Fiam has always invested in technological innovation too. In this respect, the partnership with Intermac for the development of solutions such as bilateral grinding machines and the Master processing centres range is a strategic one.

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 Hasuiki. Not forgetting Philippe Starck, Daniel Libeskind and Massimiliano Fuksas".

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

FIAMITALIA.IT



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.

Master of materials, since 1969.

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Biesse world.

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