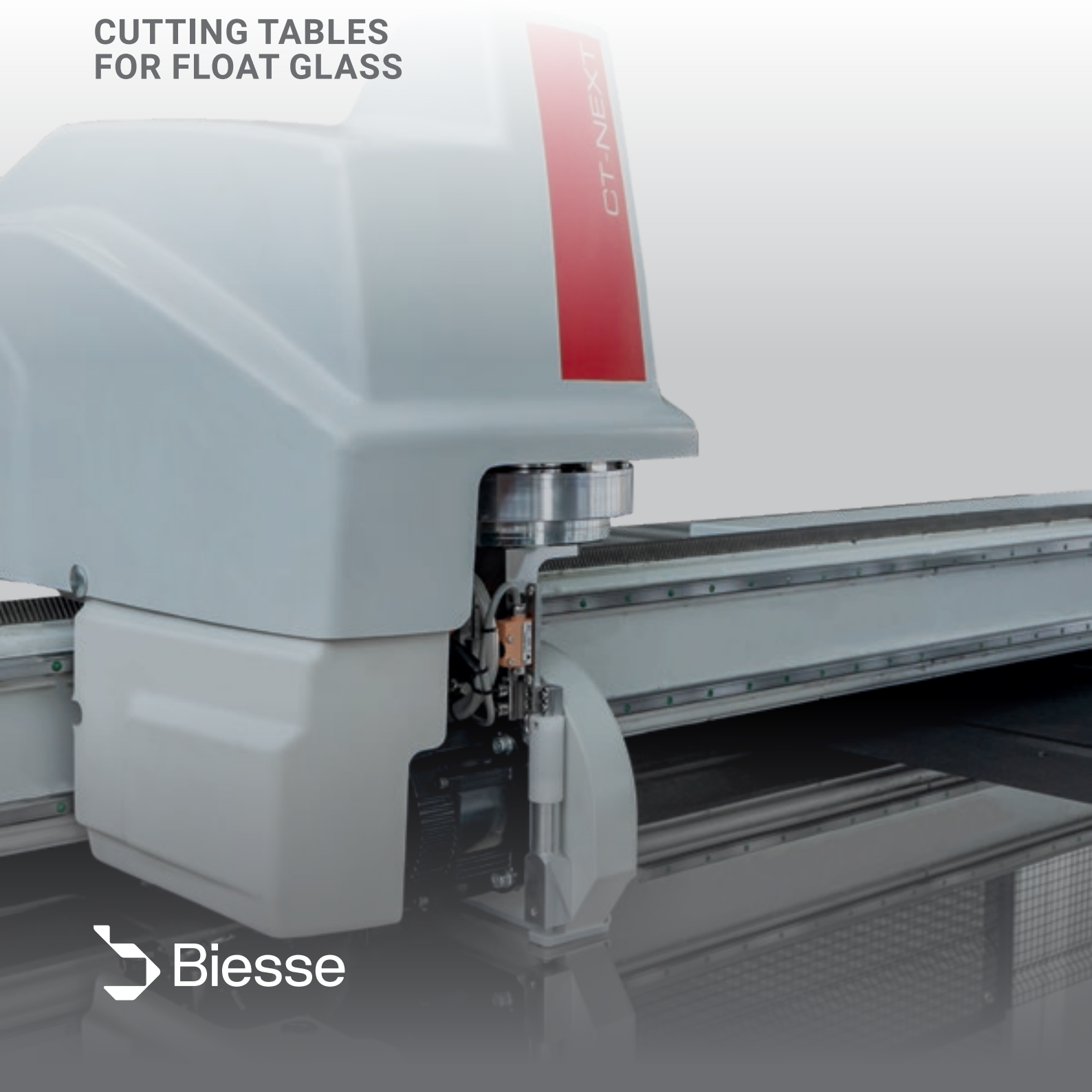# GE NIUS CT-NEXT

**CUTTING TABLES
FOR FLOAT GLASS**

Biesse

QUALITY
WITHOUT COMPROMISES

Genius CT-NEXT is the range of 3-axis cutting tables for making straight and shaped cuts on sheets of float glass. They combine perfectly with third-party loading systems and can be interfaced with breakout tables in small and medium sized firms.

GENIUS CT-NEXT

- ⊾ **UNPRECEDENTED RELIABILITY OVER TIME**
- ⊾ **MACHINING PRODUCTIVITY WITH TOP CLASS COMPONENTS**
- ⊾ **PERFECT INTEGRATION WITH PRODUCTION LINES**
  WITH DEPENDENT LOADING/UNLOADING SYSTEMS
- ⊾ **USER-FRIENDLY TECHNOLOGY**

UNPRECEDENTED RELIABLE TECHNOLOGY

The CT-NEXT cutting tables are ideal for those looking for ready-to-use solutions with an eye to quality.

Top performance and precision thanks to the planarity of the work table with the base anchored to the floor.
The work table has a felt cover with integrated belts (retractable thanks to a 2-way drive).
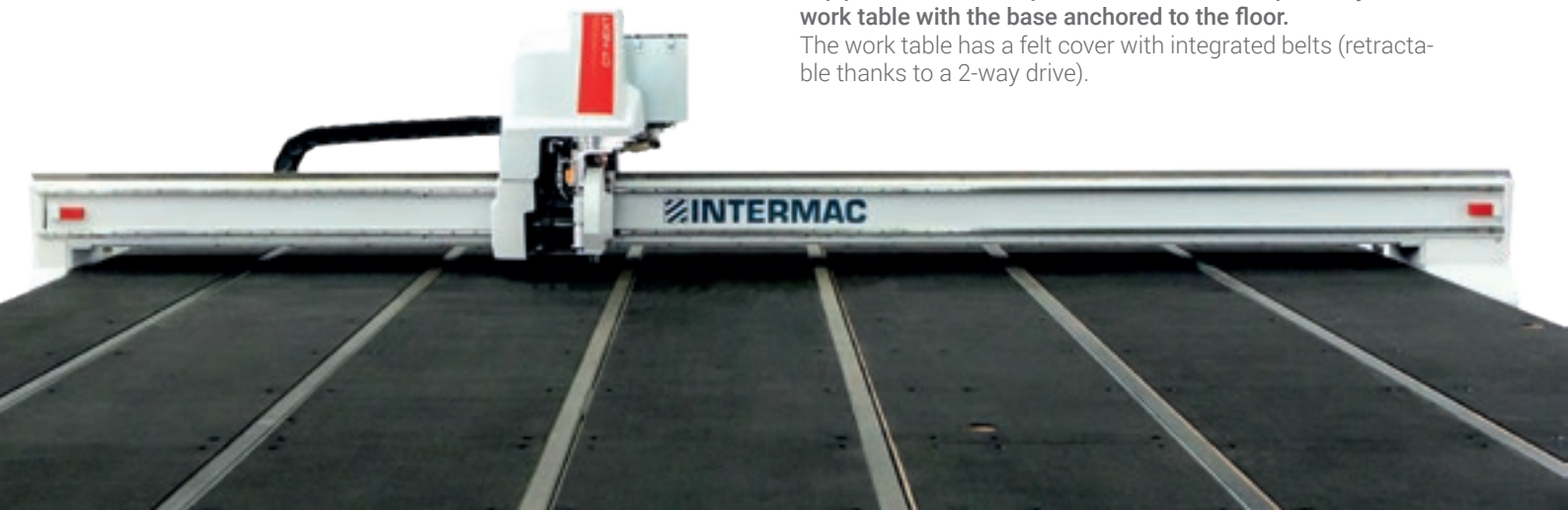
A motorised gantry axis system moves the cutting bridge, ensuring precision and stability during machining.

Axis speed is controlled via the PC and all the electronic and mechanical components are of the highest quality - two factors that guarantee flexible, dynamic machining operations.

The operating head is fitted with an optic scanner that automatically detects the position of the sheet on the work table.

It can also be used for digitalising templates and models positioned on the work table.

Precise, top quality cuts as the pressure is controlled by a proportional valve connected to a display on the head.

The axes (X-Y) are moved by means of helicoidal-tooth racks combined with guides and ball blocks.

Ball bearing guides on both axes

MACHINING FLEXIBILITY AND PRODUCTIVITY

With the optic sheet detection scanner, the position of the sheet is detected without any need for the operator's intervention, thereby increasing efficiency and productivity.

The machine base is formed of an extremely robust fixed (not tilting) steel structure with integrated belts.

TWIN OIL TANK
Guarantees greater cutting autonomy and quick oil changes.
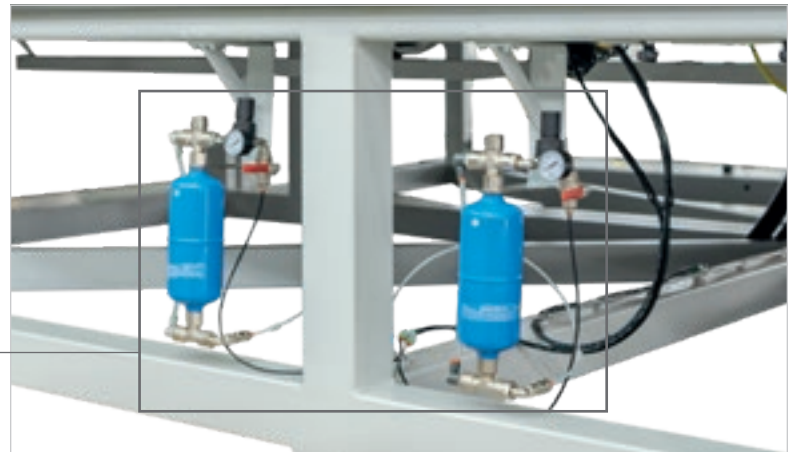
AIR CONDITIONER ON THE ELECTRICAL CABINET
To boost the efficiency of the electric components.

CONSTANT MACHINING QUALITY OVER TIME

The 6-position automatic tool magazine is an Intermac-patented technology that allows three different type of cut (straight, curved, open curve) to be made on a single sheet, using the most appropriate tool each time. This greatly improves the quality of the end result.

↙

AUTOMATIC TOOL CHANGE
The roller-holder cones allow the cutting tools to be changed automatically.

CUTTING LUBRICATION
Lubrication oil delivery is electronically managed on the basis of the execution speed and the type of cut, eliminating waste and enhancing the scoring quality.

DEDICATED TECHNOLOGIES FOR SPECIFIC PRODUCTION REQUIREMENTS

GENIUS CT-NEXT* can carry out low emissivity (Low-E) removal operations, thanks to optional devices purposely designed for specific production requirements.
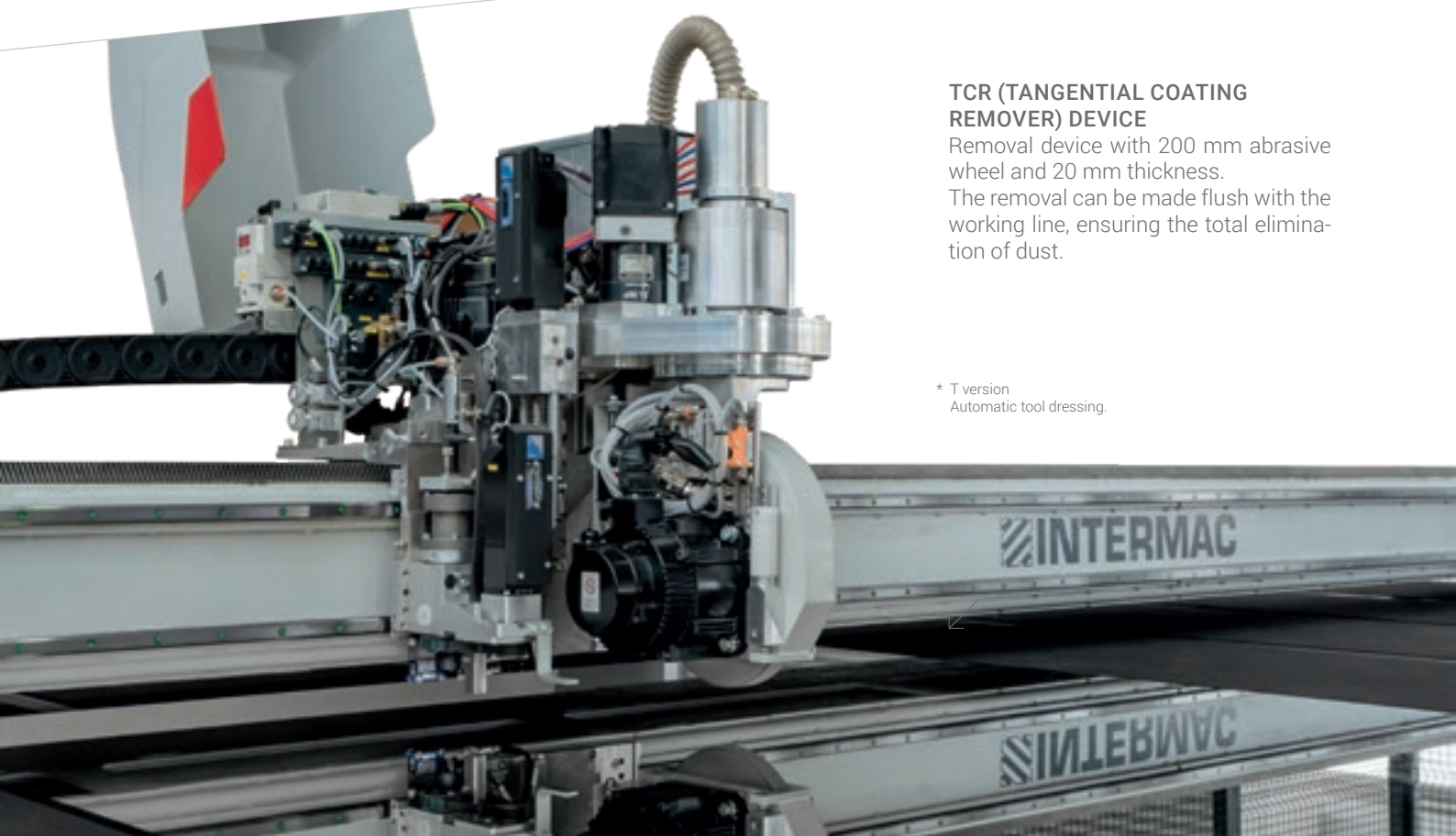
TCR (TANGENTIAL COATING REMOVER) DEVICE

Removal device with 200 mm abrasive wheel and 20 mm thickness.
The removal can be made flush with the working line, ensuring the total elimination of dust.

* T version
   Automatic tool dressing.

- Straight and shaped removal
- Multiple runs for structural glass
- Brushless C axis with endless rotation
- Electronic Z axis
- Automatic suction hood adjustment

PROTECTION AND SAFETY FOR ALL MACHINING OPERATIONS

CT-NEXT tables are fitted with perimeter fences to fully protect the operator from moving machine parts while work is being carried out.
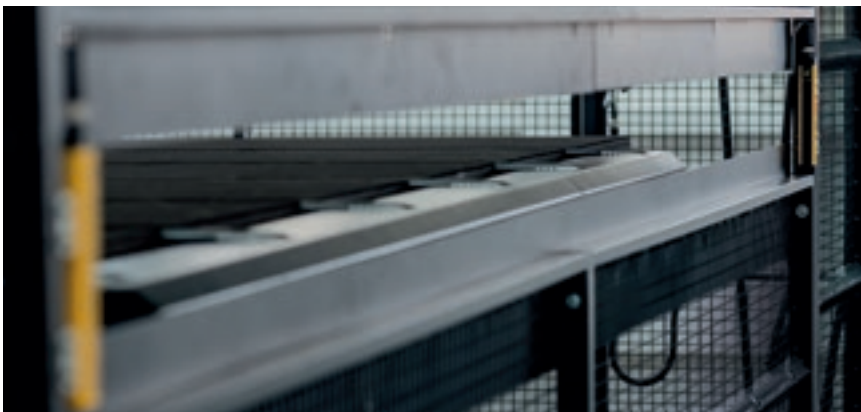
The glass infeed and outfeed points are equipped with control devices that allow the sheet to pass through without any accidental intrusions.

Doors interlocked with a safety lock.

INTEGRATION WITH PRODUCTION LINES WITH DEPENDENT LOADING/UNLOADING SYSTEMS

GENIUS CT-NEXT is a safe, compact solution with safety devices - mechanical and electric barriers - on every side.

Guarantee of dialogue with upstream and downstream machines, with no compromises.

SIMPLE, INTUITIVE USE

The operator interface is simple, intuitive and compatible with the optimisers available on the market.

### PC WNC-based numerical control system (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 the geometric or non-geometric shapes.
Total connectivity and configurability with network systems and the optic/magnetic supports available on the market.
Modules for production report management
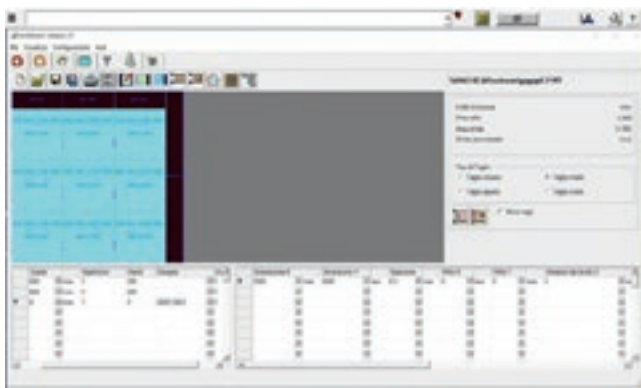
Cutting editor on the machine, able to manage DXF files and vinyl cut functions. Particularly recommended for quick, instantaneous cuts.
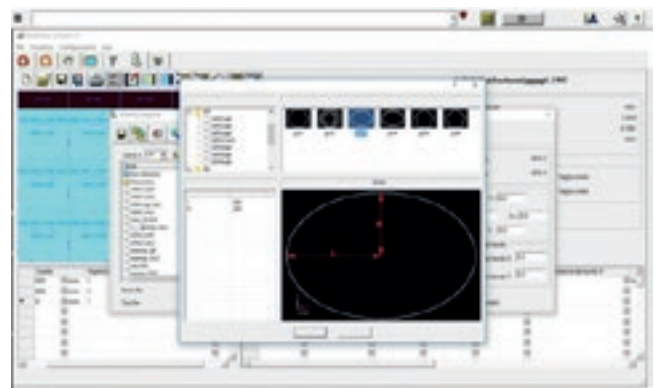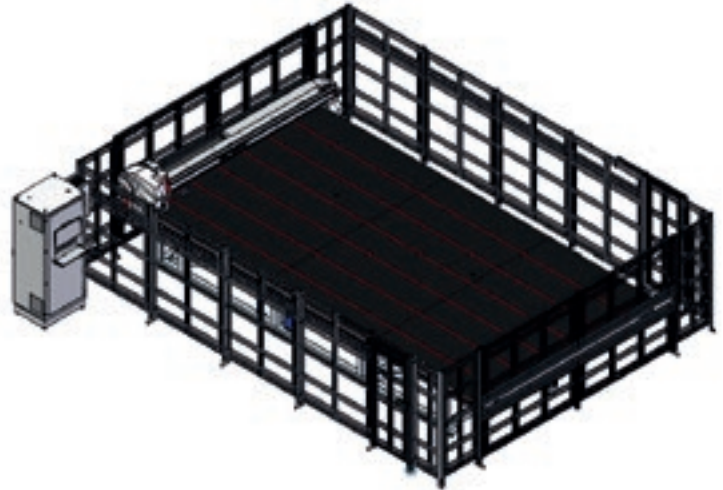

The software has a library of ready-to-use parametric shapes that enable easy implementation and programming directly on the machine.

TECHNICAL SPECIFICATIONS

GENIUS 37 CT-NEXT   GENIUS 37 CT-NEXT T

GENIUS 61 CT-NEXT   GENIUS 61 CT-NEXT T

CONFIGURATION		GENIUS 37 CT-NEXT GENIUS 37 CT-NEXT T	GENIUS 61 CT-NEXT GENIUS 61 CT-NEXT T
Machine dimensions (x;y;z)	mm	4800 x 3400 x 1980	7200 x 4000 x 1980
Machine dimensions with fences (x;y;z)	mm	4800 x 4870 x 1980	7200 x 5400 x 1980
Minimum machinable thickness (x;y;z)	mm	600 x 500 x 2	600 x 850 x 3
Maximum machinable thickness (x;y;z)	mm	3710 x 2750 x 19	6100 x 3355 x 19
Max axle movement speed	m/min	200	200
Max acceleration	m/sec²	1G - 10	1G - 10
Positioning precision of the working head	mm	± 0.15 / 2000	± 0.15 / 2000
Work table height	mm	900	900
Machine weight	Kg	2400	4000
Electrical cabinet weight	Kg	300	300
Max installed power	kW	8,9 9,3 (T version)	8,9 9,3 (T version)

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)

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.

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.

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

90% OF MACHINE DOWN CASES WITH RESPONSE TIMES 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

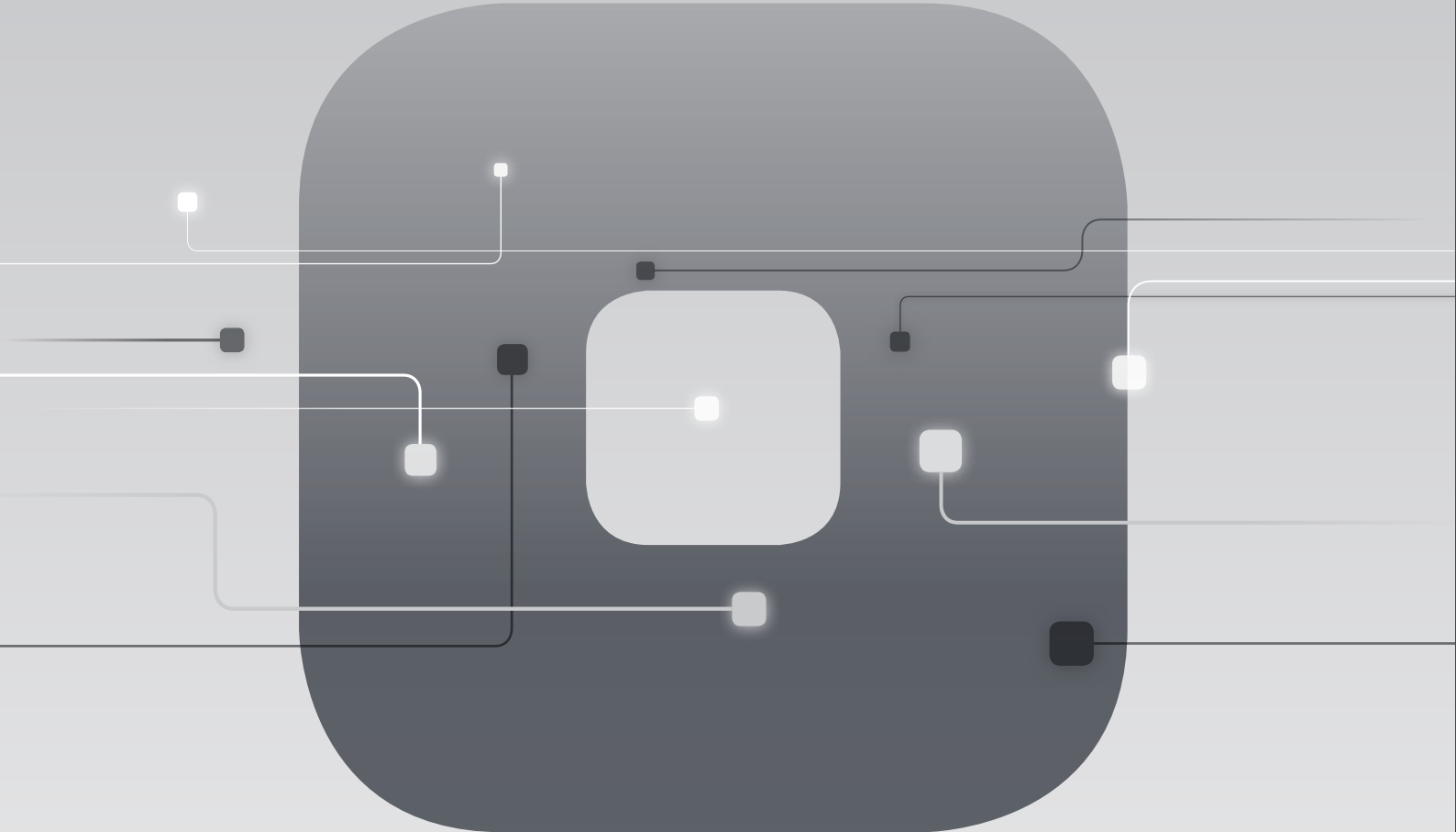**80%** OF SUPPORT REQUESTS SOLVED ONLINE

96% OF SPARE PARTS ORDERS DELIVERED IN FULL ON TIME

88% OF CASES SOLVED WITH THE FIRST ON-SITE VISIT

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

Biesse

Founded in Italy, international native.

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.

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

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