

PRO VER_A

CNC MACHINING
CENTRE



Biesse

COMPETITIVENESS FOR TECHNOLOGY AND PERFORMANCE



THE MARKET EXPECTS

a change in manufacturing processes which enables companies to **accept the largest possible number of orders**. This is coupled with the need to maintain high quality standards whilst offering product customisation with **quick and defined delivery times**, as well as responding to the needs of highly creative designers.

BIESSE RESPONDS

with **technological solutions** that influence and support technical expertise as well as process and material knowledge. **Rover A** is the flexible new high-performance CNC machining centre with a gantry structure, designed for customers who want to invest in a product that can process any type of element quickly but with excellent results. The Rover A boasts a quality-competitiveness ratio without equal on the market, making it the ideal investment.



ROVER_A

- ✓ OPTIMUM PERSONALISATION
- ✓ ERGONOMIC, COMPACT AND ROBUST
- ✓ TOP RANGE COMPONENTS
TO ENSURE RELIABILITY WITHOUT COMPROMISES
- ✓ SIMPLE, QUICK AND SAFE TOOLING
OF THE WORKING AREA

SUITABLE FOR A WIDE RANGE OF MACHINING OPERATIONS WITH 3, 4 AND 5 AXES

Rover A adapts to the production of every part, whether it be windows, doors, stairs, tops, furnishing elements or anything else.



TECHNOLOGY BASED ON 5 INTERPOLATING AXIS WITH CONTINUOUS ROTATION



The continuous rotation of the B and C axes of the 5-axis milling unit (obtained thanks to technologically advanced components) guarantees the maximum machining speed and optimum quality of the end product.

ERGONOMIC, COMPACT AND ROBUST

360°

An extremely compact machining centre designed to adapt to the production space in which it is installed. Enables the operator to safely access all sides of the machine at all times, with no obstacles on the ground.

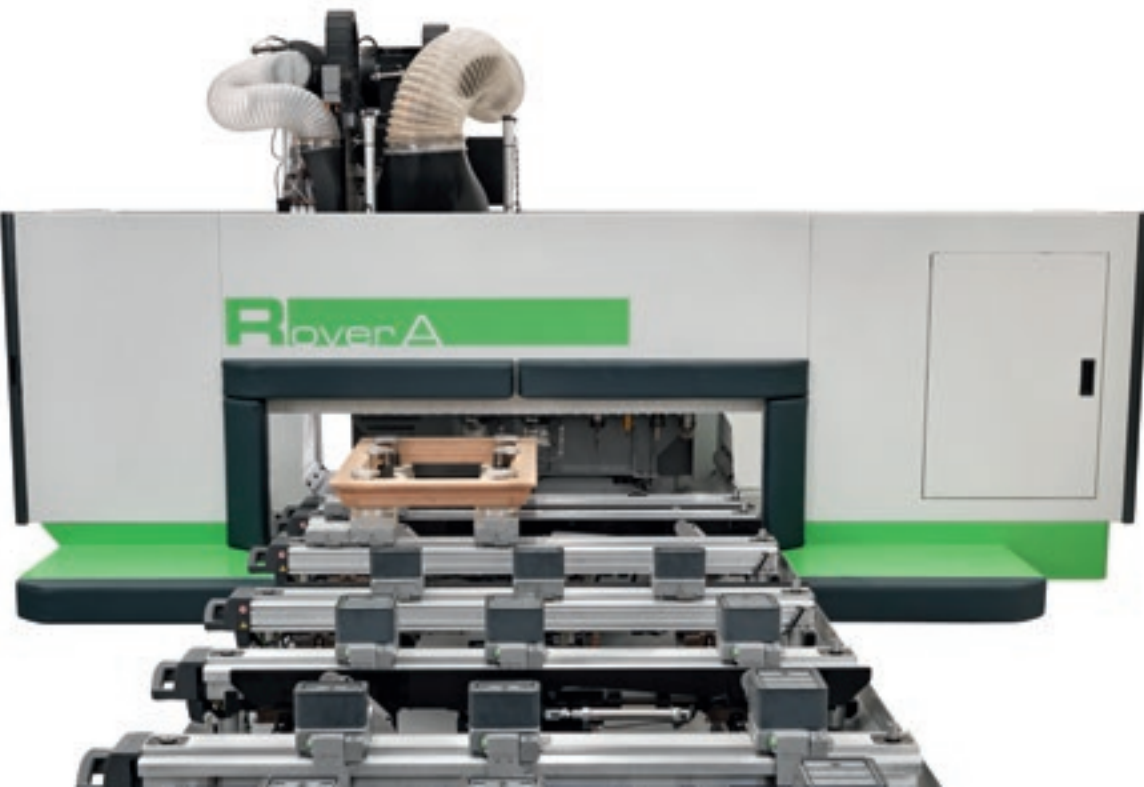


The new Rover A is designed to offer maximum performance in an extremely compact solution with the minimum working dimensions.



The Rover A enhances its range, increasing its performance levels for solid wood machining.

Thanks to the gantry structure, inherited from the higher range, it can withstand notable machining strain whilst still guaranteeing optimum reliability and the typical precision of solid wood machining.



TOP-OF-THE-RANGE COMPONENTS

The components of the Rover A are the same as those for the top-of-the-range solutions, to ensure constant results over time.

The new BHZ 29 2L boring head is equipped with automatic lubrication and a highly efficient rigid suction cap for a cleaner environment. It's liquid-cooled for maximum precision.



Automatic lubrication boring head BHZ 29 2L.



The cooling system reduces the thermal expansion of the borer and guarantees excellent reliability and precision.



The milling and drilling units and the aggregates are designed and made for Biesse by HSD, a world leader in this sector. They guarantee top power, compact dimensions and excellent finishing standards.



The **C Torque axis** has no gears so it's very rigid and ensures fast positioning, as well as being a highly precise technical solution because it's not subject to wear.



The 5-axis unit (16.5 kW) and electrospindle (19.2 kW), both with 6 large ceramic bearings, guarantee top removal levels and the best finishing quality.

5 AXIS



USER-FRIENDLY TECHNOLOGY

The high technological content of the world's most popular machining centres, meets the requirements of wood industry professionals.

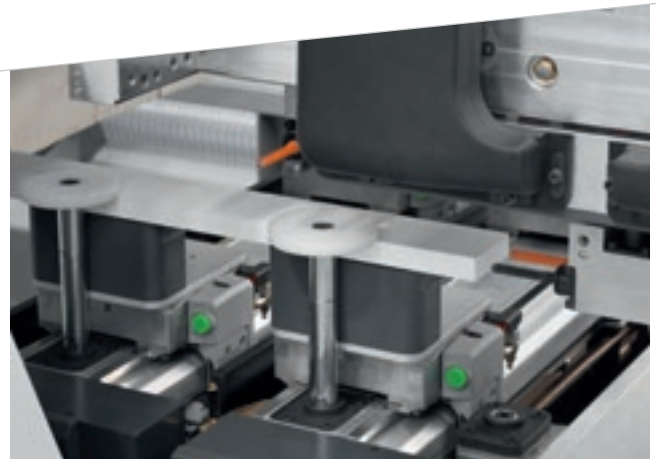
The HSD operating section with 5 interpolating axis, with up to 16.5 kW power and 360° continuous rotation on the vertical and horizontal axes, can machine complex shapes whilst ensuring quality, precision and 100% long-term reliability.



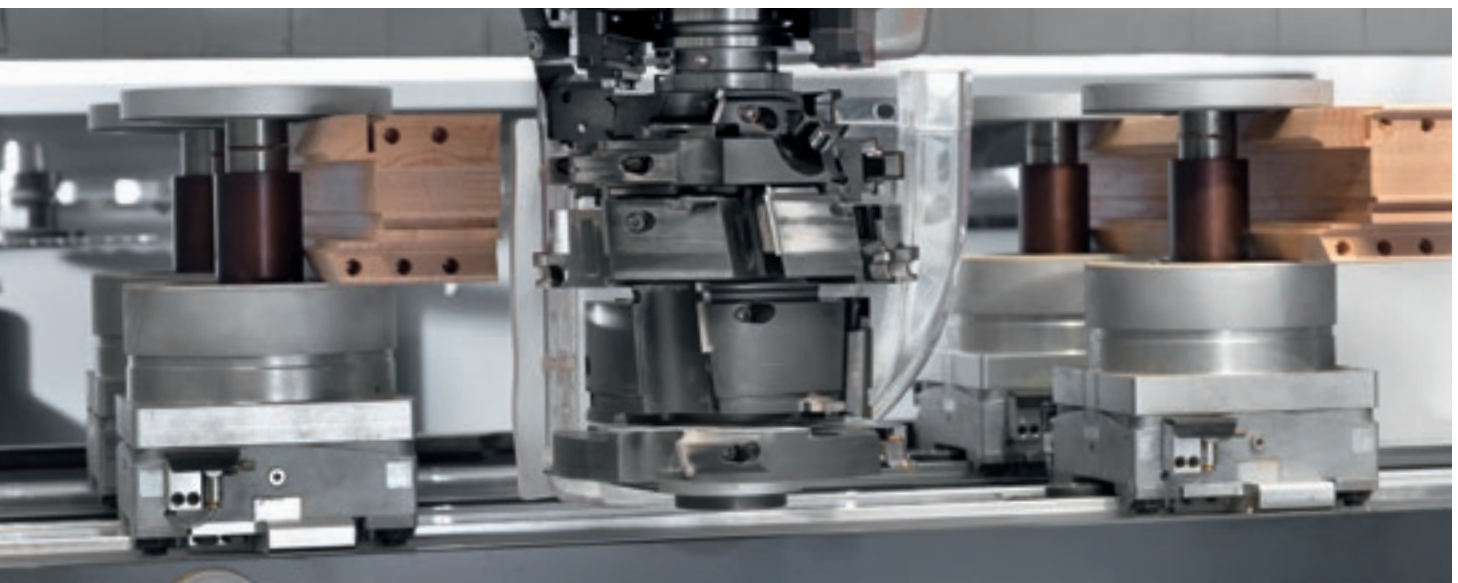
SIMPLE, QUICK AND SAFE TOOLING OF THE WORKING AREA



Locking systems based on a vacuum.



Easyclamp locking system for machining narrow pieces.



Uniclamp and Hyperclamp pneumatic locking systems with quick release, for firm and precise locking.



The working area guarantees the locking of pieces of any shape or size. The tooling of the working area is simple and quick.



Easy Zone

Supplementary vacuum system for the quick and easy clamping of several elements on the machine.

Multi-area

Allows several elements to be locked in a simple, fast manner using a vacuum or Uniclamps and Hyperclamps.

Activation of locking systems

Thanks to a line of photocells on the front side of the base, the locking systems can be activated from any point on the machine.



Lifters to assist with loading large and/or heavy pieces. Made of aluminium, each is equipped with two cylinders with sensors. Vertical descent occurs at low pressure.

DIFFERENT POSITIONING SYSTEMS IN THE WORKING AREA, TO SUIT EACH INDIVIDUAL PROCESS



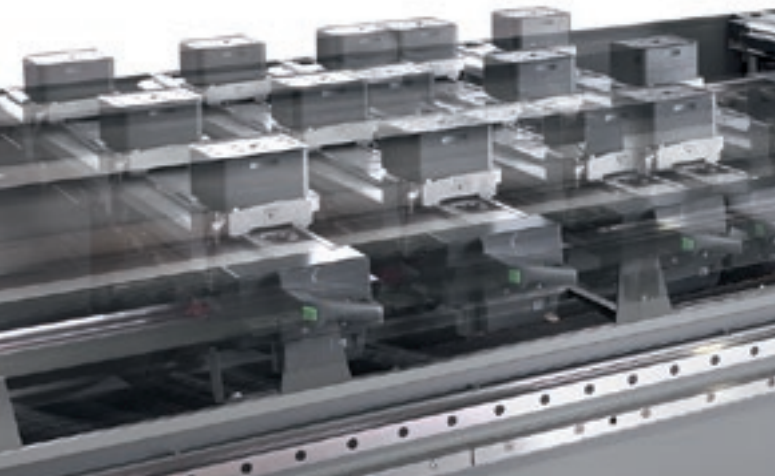
ATS (Advanced Table-Setting System)

For the quick and easy manual positioning of the clamping systems.



SA (Set Up Assistance)

For the quick, easy and controlled manual positioning of the clamping systems. The linear sensors in the work table, along with the collision control function, reduce the risk of collisions.



EPS (Electronic Positioning System)

For the quick, automatic positioning of the clamping systems in the programmed positions. The motors, along with the collision control function, ensure controlled positioning movements to reduce the risk of collisions.

FPS (Feedback positioning system)

Evolution of EPS, with unique linear sensors that ensure extremely precise locking system positioning and can tell you those positions at any moment, even after manual interventions by the operator. The Self Learning function allows the manual positioning points of the vacuum modules and pneumatic locking clamps to be automatically stored in the program by means of a simple command.

XPS POSITIONING SPEED AND PRECISION

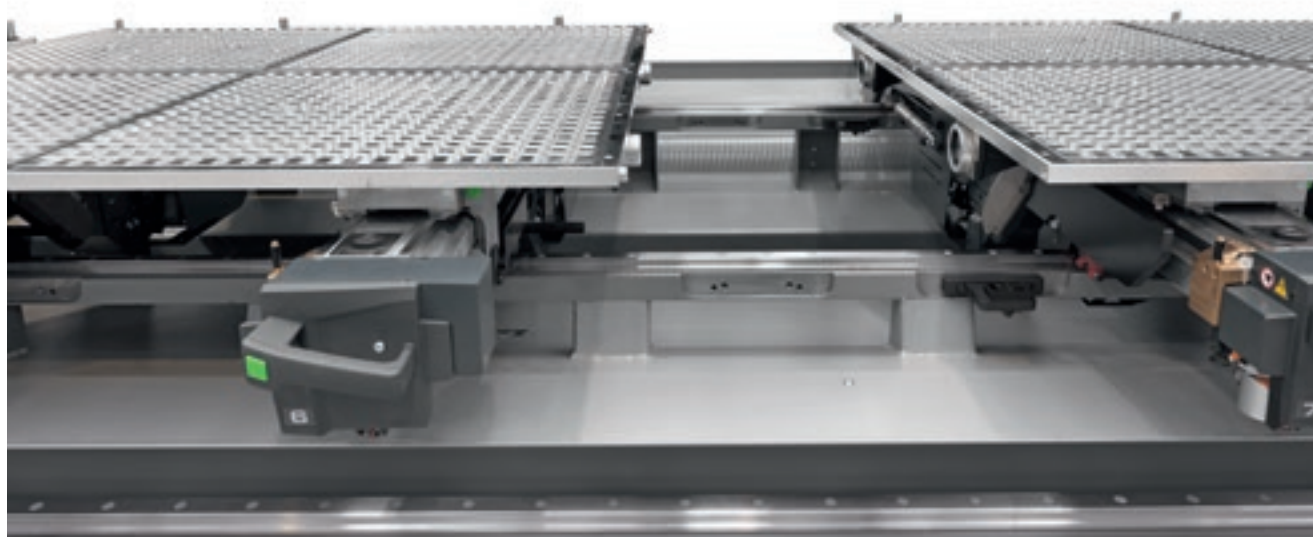


XPS - EXTREME POSITIONING SYSTEM is the first solution on the market for the best results in terms of positioning speed and precision. Fitted with a motor for every work table and every carriage, it enables the simultaneous positioning of all the locking systems. XPS not only positions the vacuum modules and pneumatic locking clamps, but also helps the operator in the loading phases and moves the pieces during program execution without any need for the operator to intervene manually. The MULTI-ZONE system (fitted as standard) enables the creation of up to 16 fully independent locking areas.

CFT: TWO MACHINES IN ONE, COMPETITIVENESS GUARANTEED



The new CFT system designed by Biesse makes the machine extremely flexible, so any type of job order can be processed.

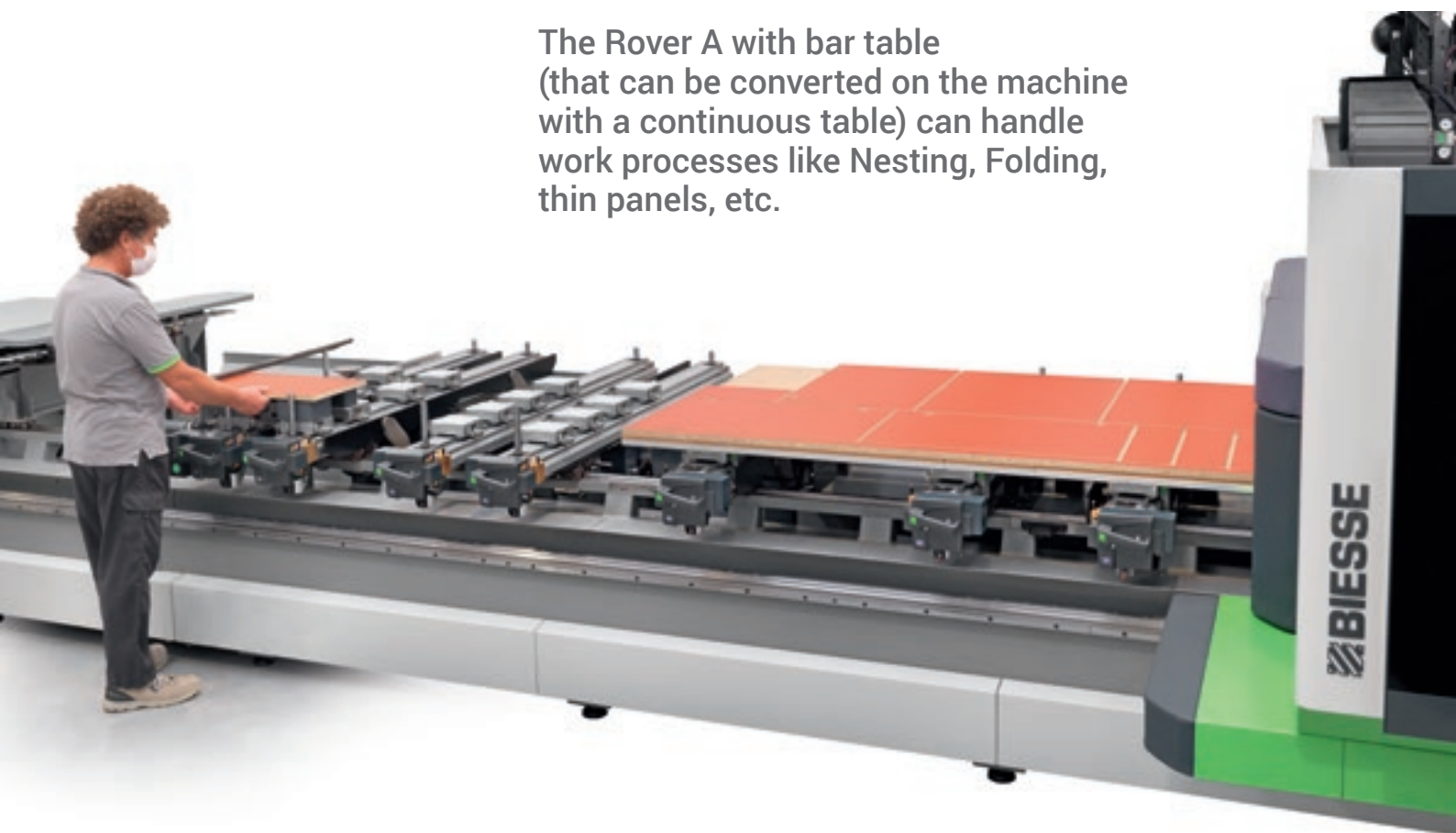


Passing from a machine with bar table to one with a continuous table is quick and easy thanks to the quick connection CFT modules.



WATCH THE VIDEO

The Rover A with bar table (that can be converted on the machine with a continuous table) can handle work processes like Nesting, Folding, thin panels, etc.



Sectioning in nesting mode produces customised, squared pieces from a large panel. The individual pieces can be completed in the opposite working area, with all those machining operations that can't be carried out on the continuous work table (horizontal bores, undercut operations, etc.).

In the case of a work table with numerical control positioning, the vacuum modules and bar tables are positioned automatically, without the need for any manual intervention by the operator.

ABILITY TO PROCESS LARGE SIZES

The entire working area is covered by all the milling and drilling units to ensure optimum efficiency.

With the tools covering the entire X and Y working field, the Rover A is extremely flexible and can process complex pieces of considerable size.



The double Z axis version of the Rover A allows pieces with a thickness of up to 275 mm and of 300 mm for Rover A Plus to be positioned in the machine.

The single Z axis version enables pieces of up to 245 mm to be processed.

TOOLING SIMPLICITY AND A MULTITUDE OF TOOLS READY TO HAND



Rack tool magazine with 12 places.



Revolver tool magazine with 8 places.



Revolver tool magazine with 13/16 places.



Chain magazines with 14/21 and 22/33 places.



The Pick Up station supports automatic tool-holder rack tooling.

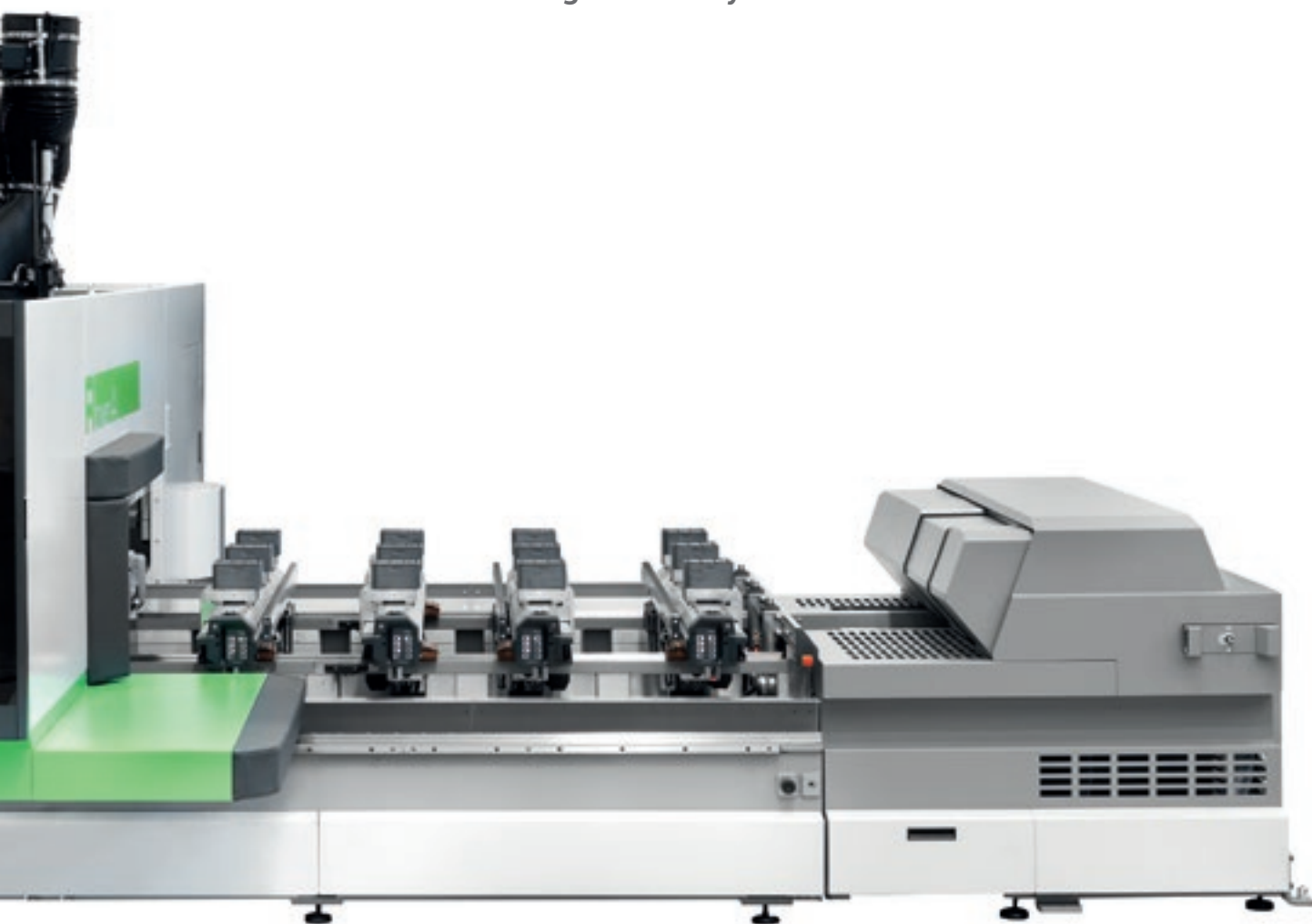
Up to 53 tools always ready for any type of machining operation, with automatic loading via the working unit. The high number of tools always ready in the magazines means the elimination of non-productive time for magazine retooling.

ROVER A PLUS

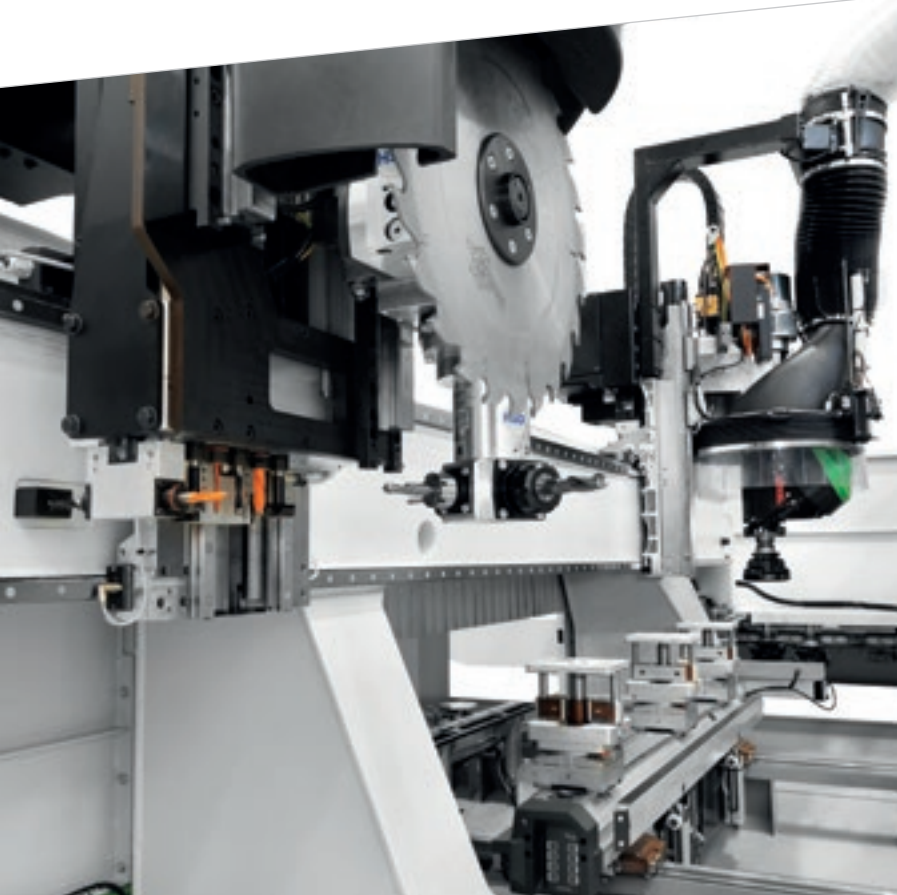
There is no limit to creativity.



Rover A Plus, designed with 2 independent operating units, allows to maximize production while maintaining high flexibility.



HIGH PRODUCTION STANDARDS



New high-level software solutions improve the operator's user experience and machine performance.

Toologic automatically suggests and implements the best tooling of the magazines based on the list of programs to be executed, reducing cycle times and increasing productivity.

The **Dynamic Parking** function optimizes the parking position of the operating unit by anticipating the movement of the operating unit closer to the workpiece, reducing movement downtime.

The **AutoStart** function increases the ergonomics of the machine since it eliminates or reduces the pressing of buttons, based on the machine composition, leaving the operator's hands free for the loading and unloading phases of the pieces.

Rover A Plus with 2 Y-carriages guarantees high **precision** and **productivity** in the execution of furniture and furnishings; in particular it meets the needs of customers who process solid wood. It can be configured with a 5-axis and/or 4-axis milling unit with a maximum power of up to 16.5 and 19.2 kW respectively.

The gantry structure with twin drive to increase productivity and the quality of the end product.



Chain magazines on the base to automatically feed, thanks to the Toollogic optimiser, the fast magazines on the X-carriage or on the Y-carriage, allowing to reduce cycle times and increase productivity.



2-position magazine to house the Deflector and a blade with a diameter of up to 350 mm.



Instantly ready for use thanks to the large number of tools available in the magazines.

MAXIMUM OPERATOR SAFETY

Biesse machines are designed to work in complete safety.

VARIOUS SOLUTIONS AVAILABLE

- ✔ With the new “full bumper” solution, the work table can be accessed from every side - this is the most ergonomic solution.
- ✔ Solution with **mats*** only, for speed and productivity.
- ✔ **Bumper plus photocells** solution, combining productivity with ergonomics



Total protection of the working unit. The wide hatch provides maximum visibility of the machining operations, as well as ensuring easy access to the working units.

* Not available for Rover A Plus

Overlapping lateral curtain guards protect the working unit.

MAXIMUM VISIBILITY OF THE WORKING UNIT TO WORK IN COMPLETE SAFETY



The internal LED lighting provides excellent visibility, guaranteeing safe working conditions.

LED bar with 5 colours, indicating the machine status in real time, allowing the operator to check the machine status at any point.



TECHNOLOGY AT THE SERVICE OF THE USER

✓
New console with Windows real-time operating system and B_SOLID software interface, including anti-collision system.

OPTIMAL CLEANING OF MACHINED PIECE AND WORK AREA



Motorised mat for chip removal.

The Rover A has various optional solutions for automatically cleaning both the panel and the area around the machine, saving time for the operator.



Carriage for collecting and removing chips and waste.

REDUCED CLEANING TIMES TO ENSURE MAXIMUM PRODUCTIVITY



Forced flow deflector with a built-in blower that increases the movement speed of the chips inside the deflector, for better machine cleaning results.



Multi-step 12-position suction hood with automatic positioning via the program, or with **continuous numerical control positioning** (for milling units with 3/4 axes).



Multi-step 19-position suction hood with automatic positioning via the program, or with **continuous numerical control positioning** (for milling units with 5 axes).

THE MOST ADVANCED TECHNOLOGY CLOSE AT HAND

bTouch is an optional feature that can be purchased after purchase of the machine to enhance the functionality and the usage of the technology available.



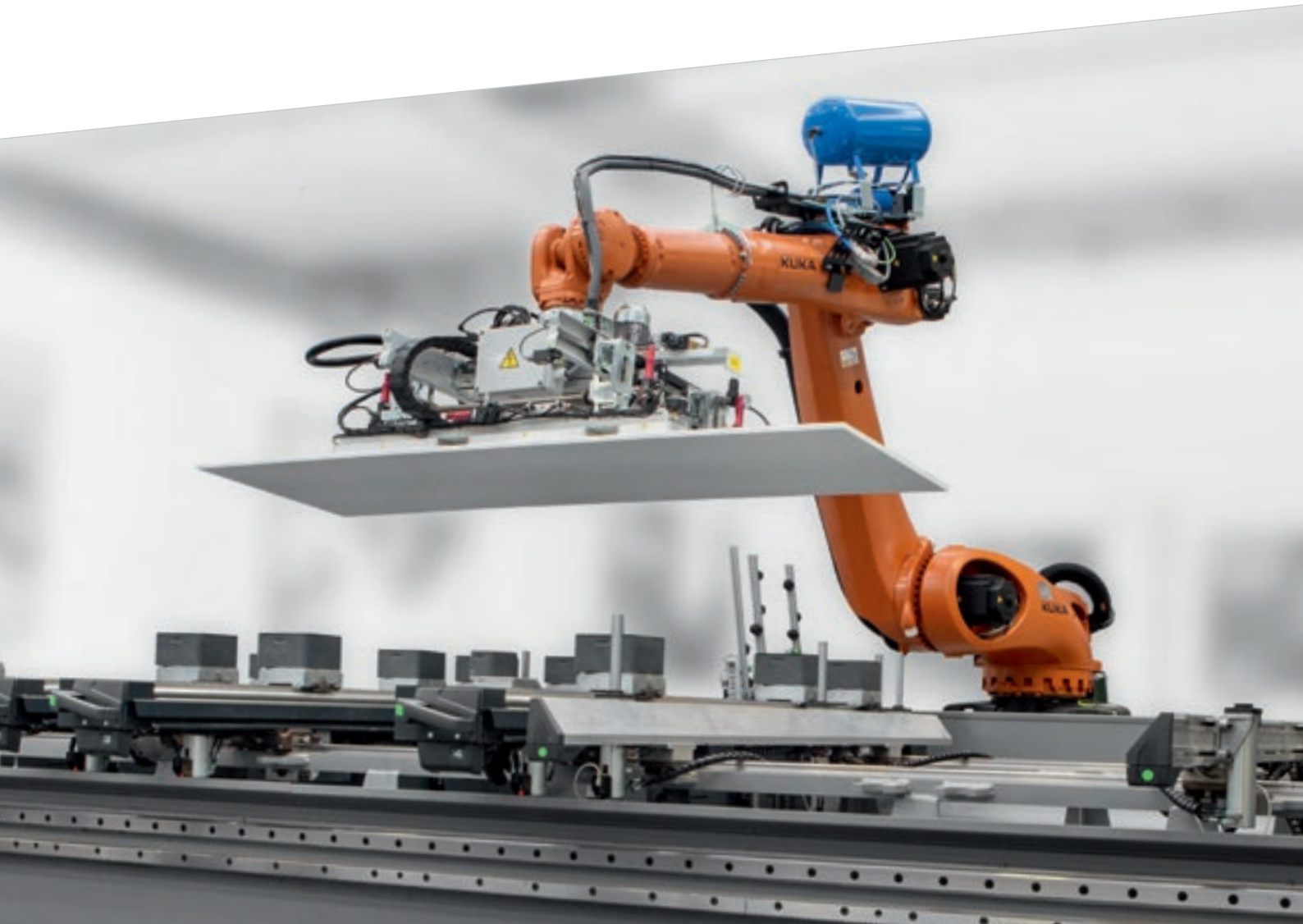
bTouch is the new 21.5" touch screen which enables you to carry out all of the functions previously performed using the mouse and the keyboard, enhancing the direct interaction between the user and the device.

Perfectly integrated with the B_SUITE 3.0 interface (and with later versions) and optimised for touch, this solution is incredibly simple, and makes the best possible use of the Biesse software functions installed on the machine. The screen has a maximum resolution of 1920 x 1080 (Full HD) at 60 Hz.

Specifically, you can:

- ✔ Create any CAD programme (including parametric programmes), with layouts and machining operations
- ✔ Move, rotate and increase the size of objects (panel, NC machine, tool etc.) present within the CAD/CAM area
- ✔ Quickly and simply complete warehouse tooling, by dragging the tools into their designated places
- ✔ Prepare the machine for the correct positioning of the panel (machine set-up), moving tables and carriages into the desired position
- ✔ Send a programme machining list, change the parameters and send it to the NC machine for processing
- ✔ Manage all the controls present in soft-console

EFFICIENT PRODUCTION, WITH NO LIMITS



Rover range can be perfectly integrated in a line with robots (ROS) and loading/unloading systems. It's the ideal solution for those who need automated solutions for producing large batches.

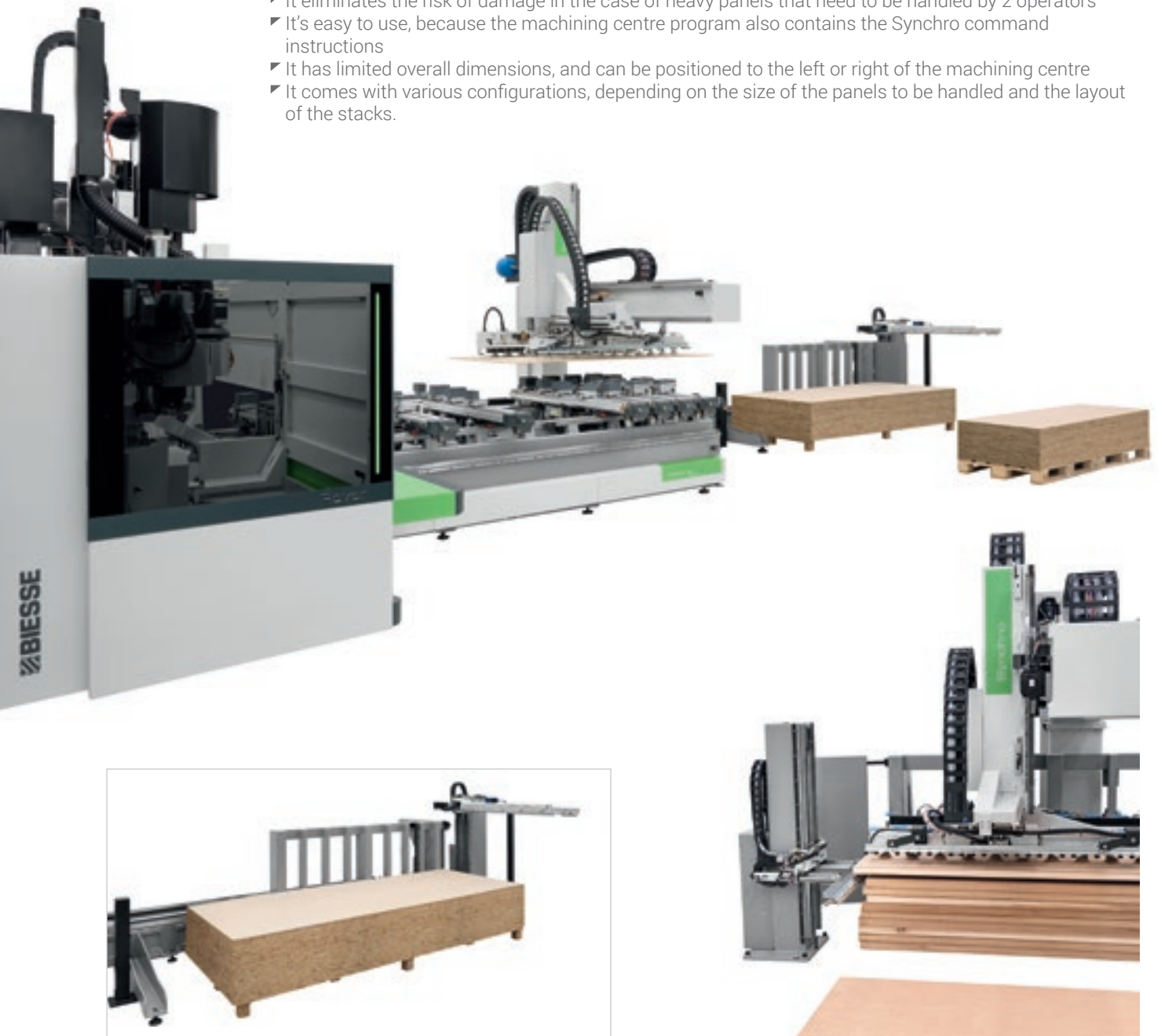
INCREASED PRODUCTIVITY AND REDUCED PRODUCTION COSTS, THANKS TO:

- ✓ The possibility of working with twin stations, with piece loading and unloading while the machine is running
- ✓ Reduced working time for the operator
- ✓ Simplification of work for the operator
- ✓ Machining operations that require no supervision and have no time limits (24/7)

LOADING AND UNLOADING SOLUTIONS

Synchro is a loading/unloading device that transforms the Rover machining centre into an automatic cell for producing a stack of panels autonomously (without the need for an operator):

- ▶ It eliminates the risk of damage in the case of heavy panels that need to be handled by 2 operators
- ▶ It's easy to use, because the machining centre program also contains the Synchro command instructions
- ▶ It has limited overall dimensions, and can be positioned to the left or right of the machining centre
- ▶ It comes with various configurations, depending on the size of the panels to be handled and the layout of the stacks.



Mechanical detacher

Increases the reliability and repeatability of the automatic functioning cycle of the cell, compensating for the lack of alignment of the panels in the stack. It consists of a central or lateral mobile stop equipped with blowers to allow for the separation of the panels in the stack.

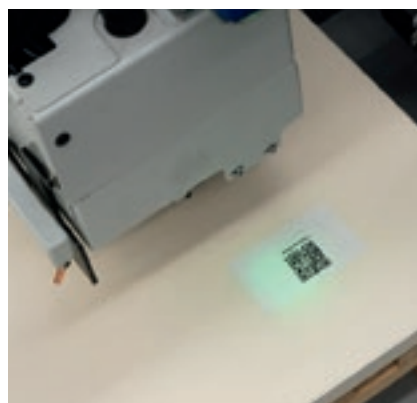
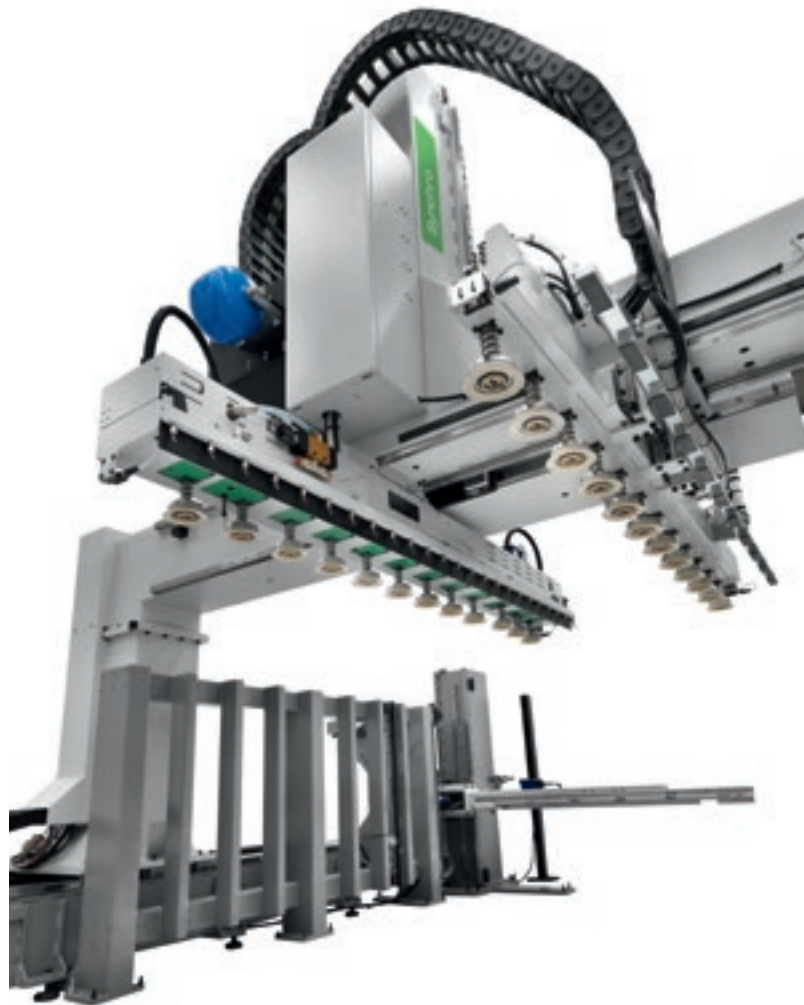
Automated cell for machining a batch of panels or doors.

Synchro can also machine stacks of different-sized panels, thanks to stack reference device and the panel pre-alignment cycle, which is performed while the machine is running, while the Rover machining centre processes the previous panel.

Panel pick-up device with automatic positioning of the suction cup holder rods

In accordance with the size of the panel to be picked up:

- No operator intervention is required to attach or remove the suction cup holder rods
- Idle time during format change operations is dramatically reduced
- The risk of collisions caused by incorrect tooling operations is reduced.
- Available in multi-zone mode with independent activation of the suction cups
- The suction cups can be configured with internal blowing to manage porous materials

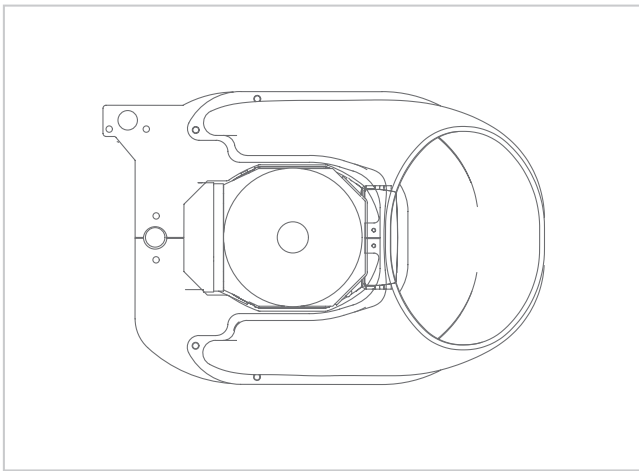


Two types of **bar code readers** are available for reading the bar codes on the top face and on the side face of the panel. These can be used to load the proper machining programme list avoiding operator error.

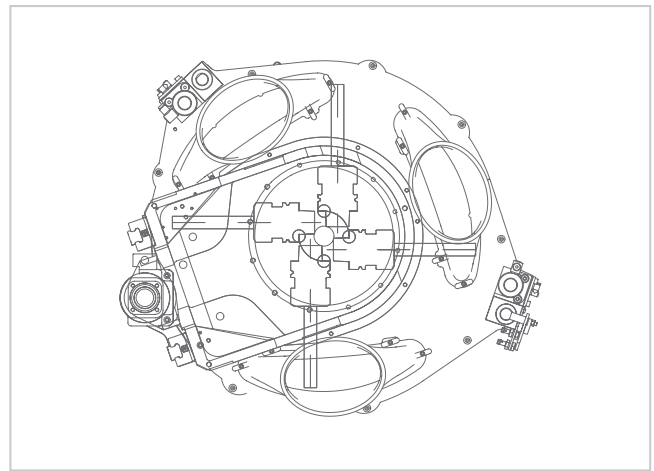
Dedicated configuration for the simultaneous loading/unloading of 2 panels, to maximise machining centre productivity:

- 0 operators
- 1 machining program
- 2 panels

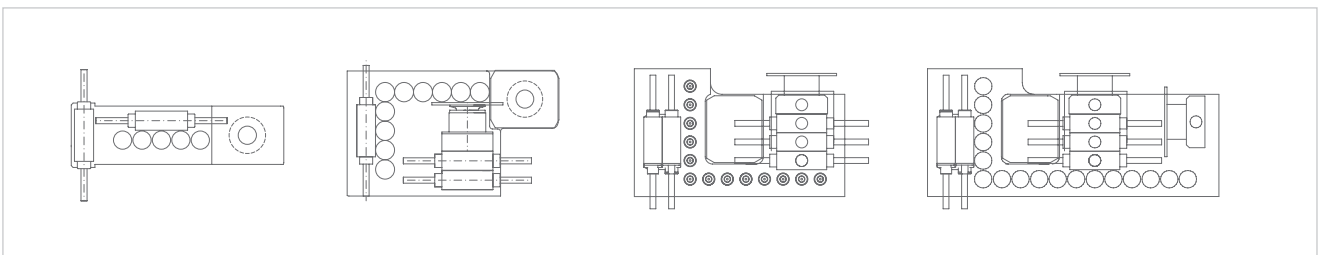
WORKING UNIT CONFIGURATION



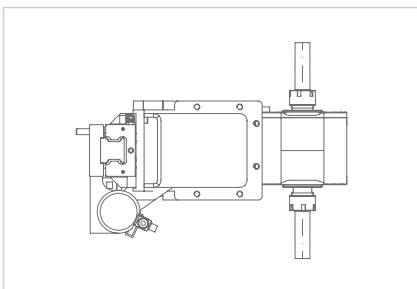
4-axis milling unit with air or liquid cooling and power levels up to 19.2 kW.



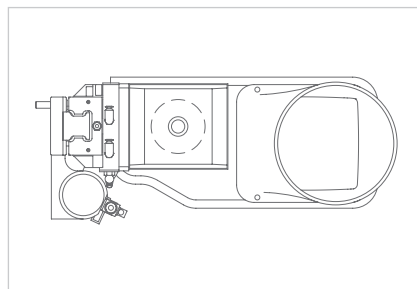
5-axis head with power up to 16.5 kW.



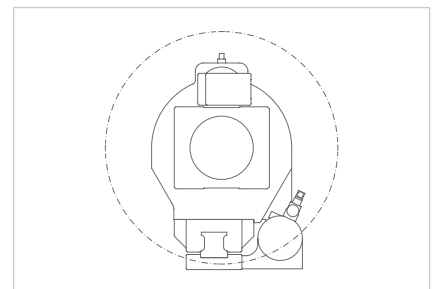
Available boring heads from 9 to 29 positions:
BHZ 9 - BHZ 17 L - BHZ 24 L - BHZ 29 2L.



2 outlet horizontal milling unit.
Motor power 6 kW.



Vertical milling unit
Motor power 7.2 kW.



Multi-function, with 360° rotation.

A COMPLETE RANGE OF AGGREGATES



myVA

SOLUTIONS THAT MAKE THE USE
OF OUR MACHINES SIMPLER,
MORE ERGONOMIC AND MORE EFFICIENT



SINGLE CONTROL STATION WITH TWIN MONITORS AND LABELLING MACHINE

The machine can be controlled and labels printed (for piece identification) from a single command point. Solution that greatly enhances the machine ergonomics.

PRINTER ON THE MOBILE CONSOLE

The printer is connected directly to the machine PC, and positioned so that everything needed for labelling is close to hand.

Biesse has developed a series of solutions that help the operator in the various work phases, making daily tasks easier. myVA is a virtual assistant for every operator.

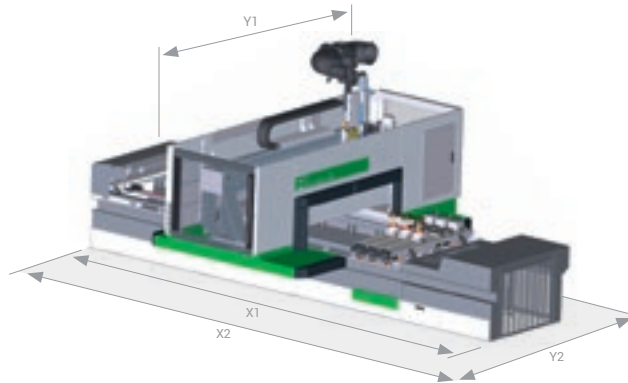
WEARABLE BAR CODE AND QR SCANNER

Used to upload programs in the work list, reading the information given on the label and activating the subsequent machining phases.

QR codes or bar codes are read quickly and accurately, leaving the operator's hands free (unlike the classic scanner).



TECHNICAL SPECIFICATIONS



WORKING FIELDS

| | | X | Y | 1Z | 2Z |
|-------------------|---------|----------|---------|---------|----------|
| Rover A 1232 | mm/inch | 3140/124 | 1260/50 | 245/9.6 | 275/10.8 |
| Rover A 1242 | mm/inch | 4140/163 | 1260/50 | 245/9.6 | 275/10.8 |
| Rover A 1256 | mm/inch | 5540/218 | 1260/50 | 245/9.6 | 275/10.8 |
| Rover A 1532 | mm/inch | 3140/124 | 1560/61 | 245/9.6 | 275/10.8 |
| Rover A 1542 | mm/inch | 4140/163 | 1560/61 | 245/9.6 | 275/10.8 |
| Rover A 1556 | mm/inch | 5540/218 | 1560/61 | 245/9.6 | 275/10.8 |
| Rover A Plus 1532 | mm/inch | 3140/124 | 1600/63 | 255/10 | 300/11.8 |
| Rover A Plus 1542 | mm/inch | 4140/163 | 1600/63 | 255/10 | 300/11.8 |
| Rover A Plus 1556 | mm/inch | 5540/218 | 1600/63 | 255/10 | 300/11.8 |
| Rover A Plus 1832 | mm/inch | 3140/124 | 1860/73 | 255/10 | 300/11.8 |
| Rover A Plus 1842 | mm/inch | 4140/163 | 1860/73 | 255/10 | 300/11.8 |
| Rover A Plus 1856 | mm/inch | 5540/218 | 1860/73 | 255/10 | 300/11.8 |

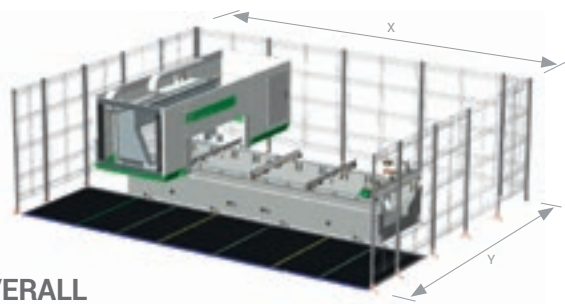
AXIS SPEED

| | | X | Y | Vector speed |
|---------------------|------------|----------------|--------|-----------------|
| Mats * | m/foot/min | 60/197 | 60/197 | 85/279 |
| Bumper + photocells | m/foot/min | 60/25 - 197/82 | 60/197 | 85/65 - 279/213 |
| Full bumper | m/foot/min | 25/82 | 60/197 | 65/213 |

FULL BUMPER FOOTPRINT

| | | Loadable panel | X1 | X2 | Y1 | Y2 |
|-----------------------------|---------|----------------|----------|------------|------------|------------|
| Rover A 1232 | mm/inch | 1350/53 | 6716/264 | 7116/280 | 3589/141 | 4589/181 |
| Rover A 1242 | mm/inch | 1350/53 | 7716/304 | 8116/319 | 3589/141 | 4589/181 |
| Rover A 1256 | mm/inch | 1350/53 | 9116/359 | 9516/375 | 3589/141 | 4589/181 |
| Rover A 1532 | mm/inch | 1560/61 | 6716/264 | 7116/280 | 3889/153 | 4889/192 |
| Rover A 1542 | mm/inch | 1560/61 | 7716/304 | 8116/319 | 3889/153 | 4889/192 |
| Rover A 1556 | mm/inch | 1560/61 | 9116/359 | 9516/375 | 3889/153 | 4889/192 |
| Rover A Plus 1532 conf. B | mm/inch | 1600/63 | 6716/264 | 7119/280.2 | 4081/160.6 | 5081/200 |
| Rover A Plus 1542 conf. B | mm/inch | 1600/63 | 7716/304 | 8119/319.6 | 4081/160.6 | 5081/200 |
| Rover A Plus 1556 conf. B | mm/inch | 1600/63 | 9116/359 | 9519/374.7 | 4081/160.6 | 5081/200 |
| Rover A Plus 1832 conf. B | mm/inch | 1860/73 | 6716/264 | 7119/280.2 | 4260/176.7 | 5260/207 |
| Rover A Plus 1842 conf. B | mm/inch | 1860/73 | 7716/304 | 8119/319.6 | 4260/176.7 | 5260/207 |
| Rover A Plus 1856 conf. B | mm/inch | 1860/73 | 9116/359 | 9519/374.7 | 4260/176.7 | 5260/207 |
| Rover A Plus 1532 conf. C/7 | mm/inch | 1600/63 | 6716/264 | 7119/280.2 | 4914/193.4 | 5914/232.8 |
| Rover A Plus 1542 conf. C/7 | mm/inch | 1600/63 | 7716/304 | 8119/319.6 | 4914/193.4 | 5914/232.8 |
| Rover A Plus 1556 conf. C/7 | mm/inch | 1600/63 | 9116/359 | 9519/374.7 | 4914/193.4 | 5914/232.8 |
| Rover A Plus 1832 conf. C/7 | mm/inch | 1860/73 | 6716/264 | 7119/280.2 | 5178/203.8 | 6178/243.2 |
| Rover A Plus 1842 conf. C/7 | mm/inch | 1860/73 | 7716/304 | 8119/319.6 | 5178/203.8 | 6178/243.2 |
| Rover A Plus 1856 conf. C/7 | mm/inch | 1860/73 | 9116/359 | 9519/374.7 | 5178/203.8 | 6178/243.2 |

(*) Not available for Rover A Plus



OVERALL DIMENSIONS OF SAFETY FENCES AND CONTACT MATS

| | | Loadable panel | X | Y |
|--------------|---------|----------------|----------|----------|
| Rover A 1232 | mm/inch | 1350/53 | 6475/255 | 4927/194 |
| Rover A 1242 | mm/inch | 1350/53 | 7508/295 | 4927/194 |
| Rover A 1256 | mm/inch | 1350/53 | 8908/351 | 4927/194 |
| Rover A 1532 | mm/inch | 1560/61 | 6475/255 | 5227/206 |
| Rover A 1542 | mm/inch | 1560/61 | 7508/295 | 5227/206 |
| Rover A 1556 | mm/inch | 1560/61 | 8908/351 | 5227/206 |

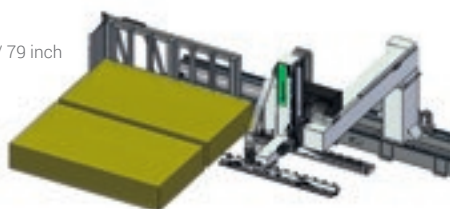


OVERALL DIMENSIONS PHOTOCELLS + BUMPER

| | | Loadable panel | X | Y |
|-----------------------------|---------|----------------|------------|------------|
| Rover A 1232 | mm/inch | 1350/53 | 7358/290 | 4927/194 |
| Rover A 1242 | mm/inch | 1350/53 | 8358/329 | 4927/194 |
| Rover A 1256 | mm/inch | 1350/53 | 9758/384 | 4927/194 |
| Rover A 1532 | mm/inch | 1560/61 | 7358/290 | 5227/206 |
| Rover A 1542 | mm/inch | 1560/61 | 8358/329 | 5227/206 |
| Rover A 1556 | mm/inch | 1560/61 | 9758/384 | 5227/206 |
| Rover A Plus 1532 conf. B | mm/inch | 1600/62.9 | 7388/290.8 | 5386/212 |
| Rover A Plus 1542 conf. B | mm/inch | 1600/62.9 | 8640/340.1 | 5386/212 |
| Rover A Plus 1556 conf. B | mm/inch | 1600/62.9 | 1050/41,3 | 5386/212 |
| Rover A Plus 1832 conf. B | mm/inch | 1860/73.2 | 7388/290.8 | 5710/224.8 |
| Rover A Plus 1842 conf. B | mm/inch | 1860/73.2 | 8640/340.1 | 5710/224.8 |
| Rover A Plus 1856 conf. B | mm/inch | 1860/73.2 | 1050/41,3 | 5710/224.8 |
| Rover A Plus 1532 conf. C/7 | mm/inch | 1600/62.9 | 7370/290.1 | 6350/250 |
| Rover A Plus 1542 conf. C/7 | mm/inch | 1600/62.9 | 8330/327.9 | 6350/250 |
| Rover A Plus 1556 conf. C/7 | mm/inch | 1600/62.9 | 9760/384.2 | 6350/250 |
| Rover A Plus 1832 conf. C/7 | mm/inch | 1860/73.2 | 7370/290.1 | 6496/255.7 |
| Rover A Plus 1842 conf. C/7 | mm/inch | 1860/73.2 | 8330/327.9 | 6496/255.7 |
| Rover A Plus 1856 conf. C/7 | mm/inch | 1860/73.2 | 9760/384.2 | 6496/255.7 |

H MAX = 2970 mm / 117 inch

H fences = 2000 mm / 79 inch



WORKING FIELDS SYNCHRO

| | | |
|---|---------|---------------------|
| Length (min/max) | mm/inch | 400/3200 *- 16/ 126 |
| Width (min/max) | mm/inch | 200/2200 *- 8/87 |
| Thickness (min/max) | mm/inch | 8/150 - 0,3/6 |
| Weight (1 panel/ 2 panels) | kg/lb | 150/75 - 331/165 |
| Useful height of stack | mm/inch | 1000 - 39 |
| Height of stack from ground (including 145 mm Europallet) | mm/inch | 1145 - 45 |

(*) the Min and Max values may vary in accordance with the configurations of Synchro and the Rover machining centre to which Synchro is linked.

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.

The correct noise pressure level, measured from the operator's workstation, is: LP = 78 dB (A), during boring. LP = 78.5 dB (A), during milling. The noise power level is: LWA = 93.5 dB, during boring. LWA = 95.5 dB, during milling. Uncertainty factor K = 4 dB.

The measurement was carried out in compliance with UNI EN ISO 3746, UNI EN ISO 11202, UNI EN 848-3 and subsequent modifications. 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 further precautions are necessary. The factors determining the noise levels to which the operative personnel are exposed include the length of exposure, the characteristics of the work area, as well as other sources of dust and noise, etc. (i.e. the number of machines and processes concurrently operating in the vicinity). In any case, the information supplied will help the user of the machine to better assess the danger and risks involved.

HIGH-TECH BECOMES ACCESSIBLE AND INTUITIVE



B_SOLID IS A 3D CAD CAM SOFTWARE PROGRAM THAT SUPPORTS THE PERFORMANCE OF ANY MACHINING OPERATION THANKS TO VERTICAL MODULES DESIGNED FOR SPECIFIC MANUFACTURING PROCESSES.

- Planning in just a few clicks.
- Simulating machining operations to visualise the piece ahead of manufacturing and providing guidance for the planning phase.
- Virtual prototyping of the piece to avoid collisions and ensure optimal processing.
- Machining operation simulation with a calculated execution time.

MANAGING PRODUCTION IN A SIMPLE, USER-FRIENDLY MANNER

SMART CONNECTION
Powered by Retuner



SMARTCONNECTION IS A SOFTWARE PACKAGE FOR MANAGING JOB ORDERS WITHIN THE COMPANY - FROM THE GENERATION PHASE TO SCHEDULING AND PRODUCTION START-UP - IN JUST A FEW SIMPLE, INTUITIVE STEPS.

THANKS TO SMARTCONNECTION, PRODUCTION SITE MACHINES CAN BE LINKED UP TO TRANSFORM THE COMPANY INTO A 4.0 ENTITY..



SmartConnection is a web-based solution that can be used by any device.

MANAGE THE JOB ORDER

PLAN

SCHEDULE

WORK

 Biesse is extending SmartConnection across all geographical areas. To check availability in your country, get in touch with your commercial contact.

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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.



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THE WORLD, READY TO HELP
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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

MADE WITH BIESSE

FOR A REVOLUTIONARY BUT CONSCIOUS DESIGN

Conscious design that understands society and skilfully changes it for the better. That's the mission at the heart of Lago, a furniture company founded in 1976 with two simple concepts encoded in its DNA: curiosity and doing things well.

The common ground for the Biesse Group and Lago, which reinforces the historic partnership between the furniture and carpentry sectors, is the Alliance project: a collection of brands, people and businesses that have decided to join the design company from Veneto on a journey of respect for our planet, ourselves and our future. The historic partnership is borne out by the innovative production plant that Biesse developed with Lago, completely restructuring the manufacturing site. The result is the inclusion of a new Batch One facility within the existing production context, in the spirit of personalisation, speed and flexibility.

The facility has a new square-edging cell with Stream MDS and Winner W1, a new drilling cell with Skipper 130 and a new Selco WNR 650 sizing centre connected to Win-

store 3D K1, which intelligently manages all the material to be processed.

"Including the 'batch one' process bolsters the 'just in time' objective set by Lago, reducing the warehouses needed for semi-finished products and raw materials, as well as reducing scrap material and elevating product quality. What's more, it improves efficiency, reduces time to delivery and offers complete control over the production flow," explains Mauro Pede, Biesse Systems Sales Director.

"The new investments have led us to a new productive flexibility that we will continue to implement, for a renewed production speed and even greater customisation of the range," adds Daniele.

Carlo Bertacco echoes the sentiment, "We are completing a 2,500 m2 expansion, to be even faster and more flexible while maintaining the extremely high level of quality that Lago is known for. It's an equation that relies heavily on technology: I'm referring to one of the particularly valuable machines we purchased from Biesse – a small 'Brema Eko' – not only is it extremely flexible, it allows us

to greatly simplify some steps, since we can process painted pieces without worrying about damaging them.

It's proof that with clear ideas and a precisely organised work flow one can find simple solutions that produce excellent results."

**LAGO BELIEVES
THAT DESIGN MUST
BE GUIDED BY MAN,
BY HUMANITY AND
EMPATHY**



Daniele Lago
Founder



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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