

BRE MIA EKO 2.2

**MACHINING CENTRE
FOR REAL-TIME PANEL PROCESSING**

HIGH VERSATILITY IN ACCORDANCE WITH PRODUCTION NEEDS



THE MARKET EXPECTS

a change in production processes to meet the evergrowing request for **customised products to satisfy customers' specific needs**, coupled with **quick and certain delivery times**. Production volumes are no longer a certainty and manufacturing using statistical analysis is not a valid option. Production diversification is the key to success.

BIESSE RESPONDS

with **technological solutions** in an extensive range of configurations which can meet the requirements of companies who manufacture to order, with significantly reduced costs and cycle times. **Brema Eko 2.2** is the new compact and versatile vertical drilling machine with reduced footprint, for machining panels of different thickness and sizes. The ideal solution for "just in time" production, even for the most complex routing machining processes.



WATCH THE VIDEO

BREMA EKO 2.2

- MAXIMUM MACHINE CONFIGURABILITY, IN ACCORDANCE WITH PRODUCTION REQUIREMENTS
- OPTIMISED PRODUCTION, THANKS TO THE ELIMINATION OF SET-UP TIMES
- ABILITY TO MACHINE A WIDE RANGE OF PANEL TYPES

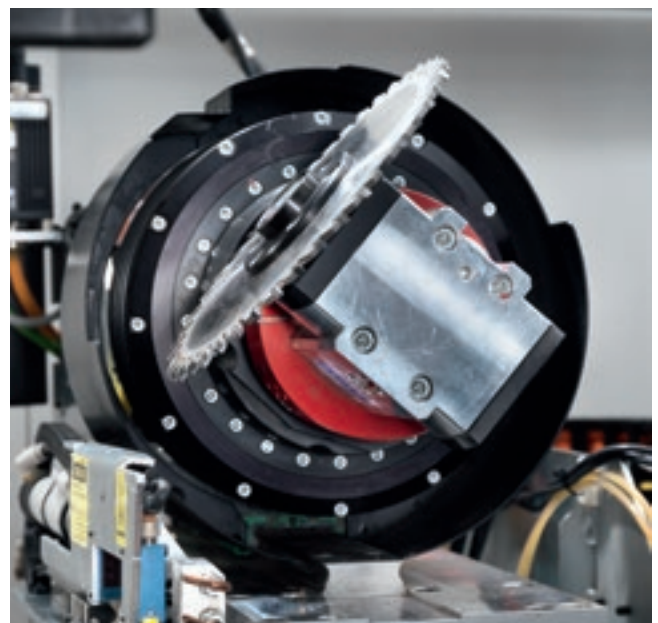
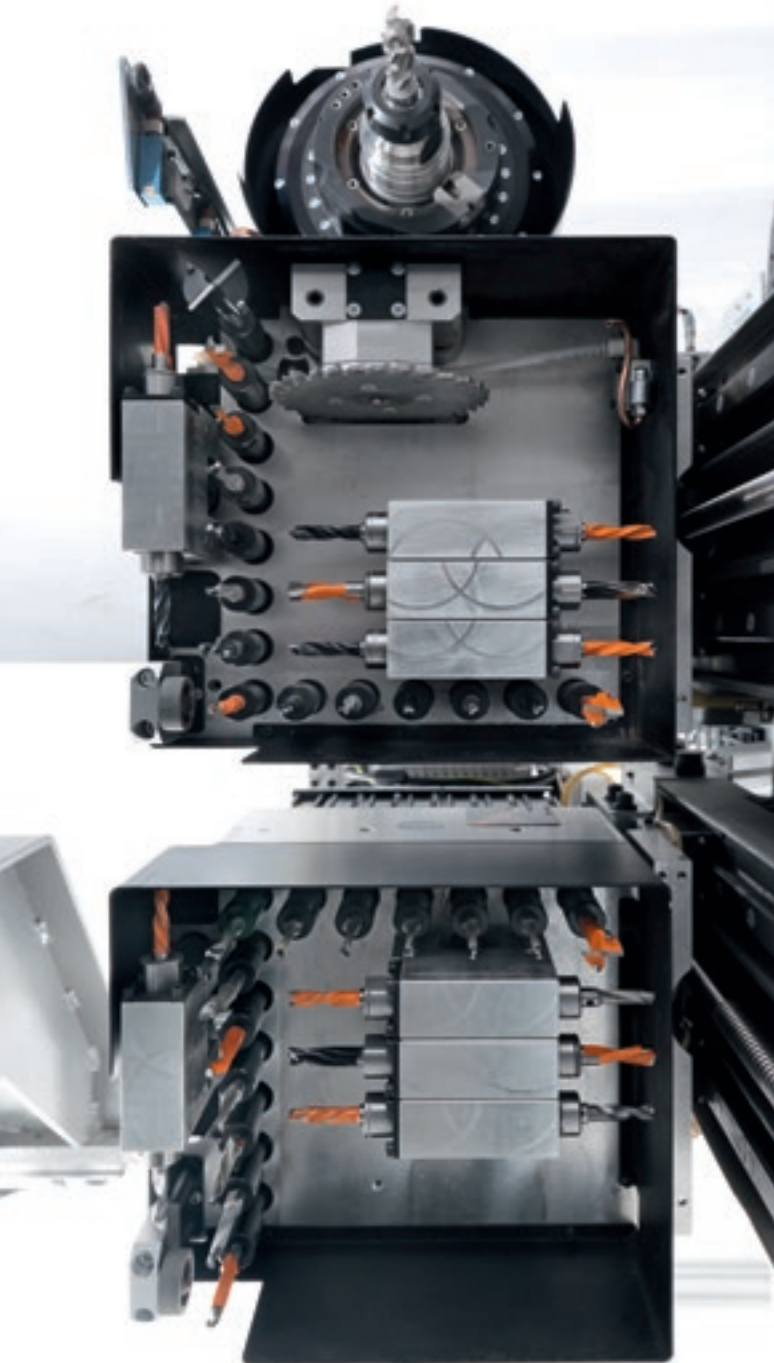
MAXIMUM MACHINE CONFIGURABILITY, IN ACCORDANCE WITH PRODUCTION REQUIREMENTS

Biesse uses the same high-tech components for all machines in its product range.



Electrospindles, drilling heads and aggregates are designed and manufactured for Biesse by HSD, the global leader in the mechatronics sector.

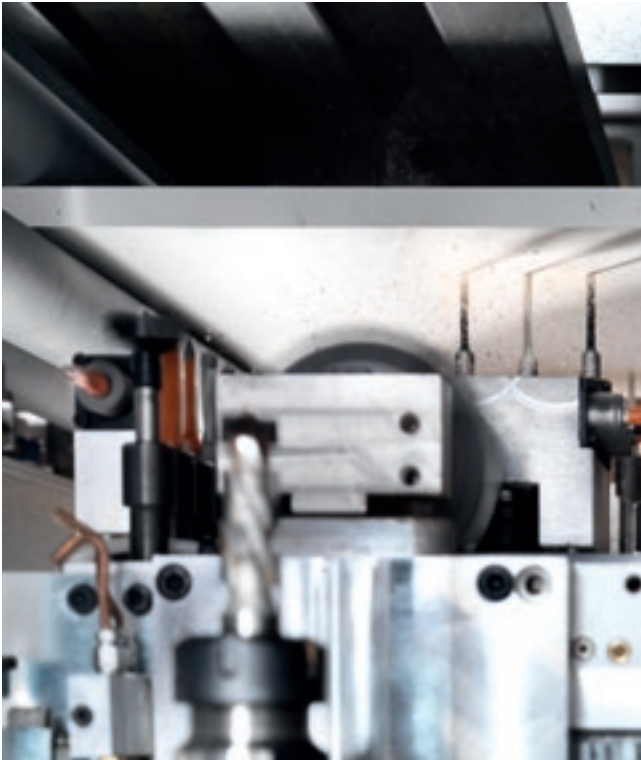
BREMA EKO 2.2 ALLOWS USERS TO CONFIGURE THE DUAL-HEAD MACHINE WITH INDEPENDENT SPINDLES.



THE MACHINE'S STRUCTURE AND COMPONENTS GUARANTEE THE HIGHEST LEVEL OF PRECISION FOR ANY TYPE OF MACHINING OPERATION



Cutting machine with integrated C-axis (optional).



VERTICAL DRILL ING

COMPACT POWER

The vertical position of the panel and the technical characteristics of these vertical drilling machines allow for the processing of more delicate surfaces.

Brema vertical drilling machines can carry out all drilling, milling and glue and dowel insertion operations, as well as boasting the ability to manage additional hardware inserts. The structure of these machines has been designed to achieve optimal loading and unloading ergonomics, with a small footprint which saves 50% of space, in addition to offering zero set-up times and high levels of productivity.



MAXIMUM MANUFACTURING EFFICIENCY THANKS TO THE ELIMINATION OF SET-UP TIMES



8-position tool magazine that manages different types of aggregates, thus increasing the machine's versatility.



Unit for managing glue/dowel insertion with a patented system with tool change for recalling the work aggregate.

The vertical positioning of the panel and the work table with rubber rollers ensure ergonomically optimal loading/unloading which support the machining of even the most delicate surfaces.



The **laser scanner** system that detects the start and the end of the panel enables the machine to compensate dimensional errors, correcting the panel's X dimensions.



HP Kit

The High Performance Kit for the accelerated management of gripper movement along the X-axis allows for speeds of up to 110 m/min with rapid acceleration ramps. The kit helps significantly increase machine productivity thanks to the greater speed with which the panel movement and gripper repositioning phases are executed.

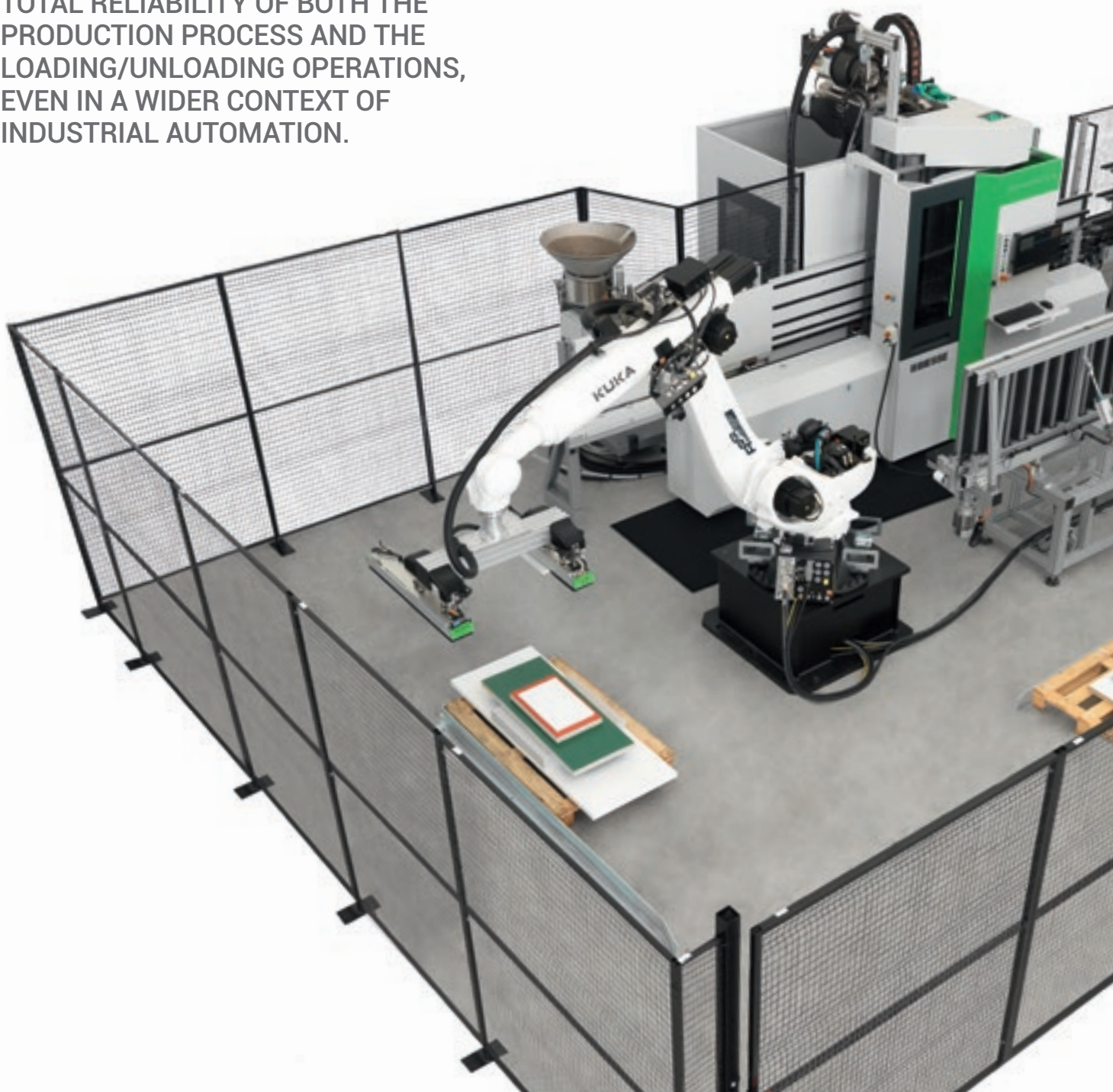
In addition, **the clamps** are fitted with a panel thickness detection system that enables the machine to modify the programme's values in real time, guaranteeing the precision of "Z"-axis machining operations.



The work table is fitted with a **counter-pressure system** that keeps the panel in position and perfectly aligned along its entire useful height, in accordance with the thickness of the machined piece, ensuring maximum precision.

AUTOMATED, INTERCONNECTED PRODUCTION

BREMA EKO 2.2 CAN BE PERFECTLY INTEGRATED IN A LINE WITH ROBOTS (ROS). THE ROS ROBOTISED SOLUTIONS ENSURE A MARKED INCREASE IN PRODUCTION AND TOTAL RELIABILITY OF BOTH THE PRODUCTION PROCESS AND THE LOADING/UNLOADING OPERATIONS, EVEN IN A WIDER CONTEXT OF INDUSTRIAL AUTOMATION.



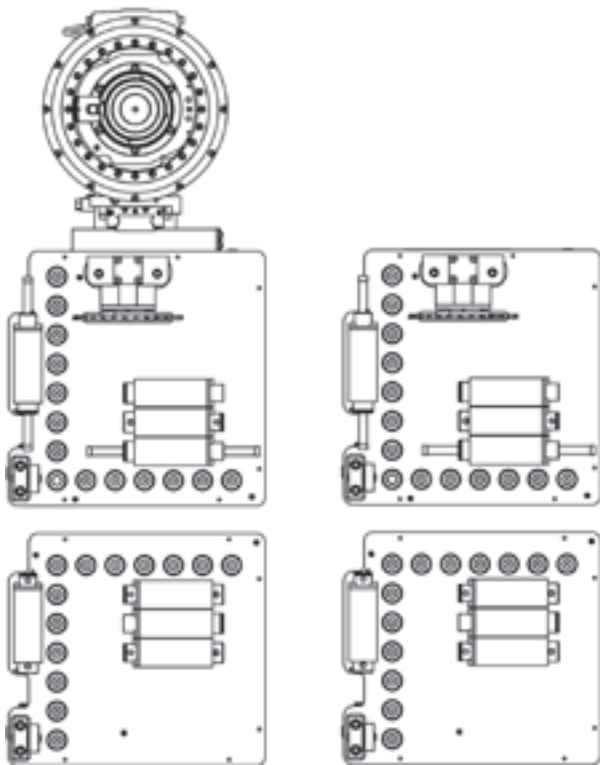
Idle times are drastically reduced, and the risk of damage to the material due to panel handling by the operator is practically nil.



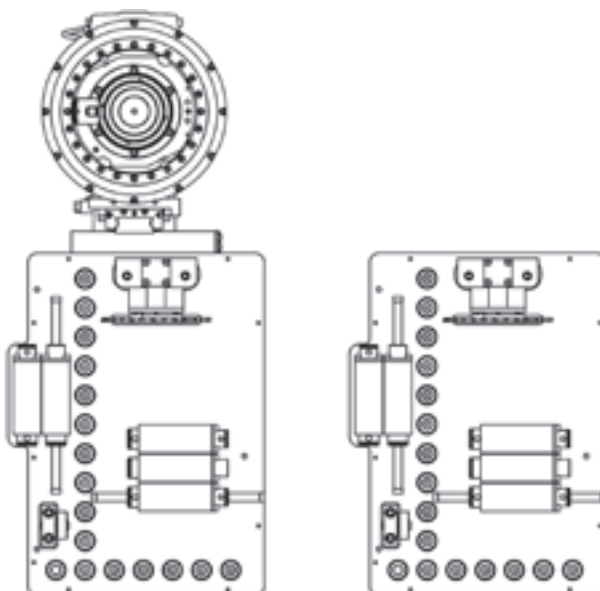
BREMA EKO 2.2 + ROS enable productivity to be increased and production costs to be reduced, thanks to:

- ▶ 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)

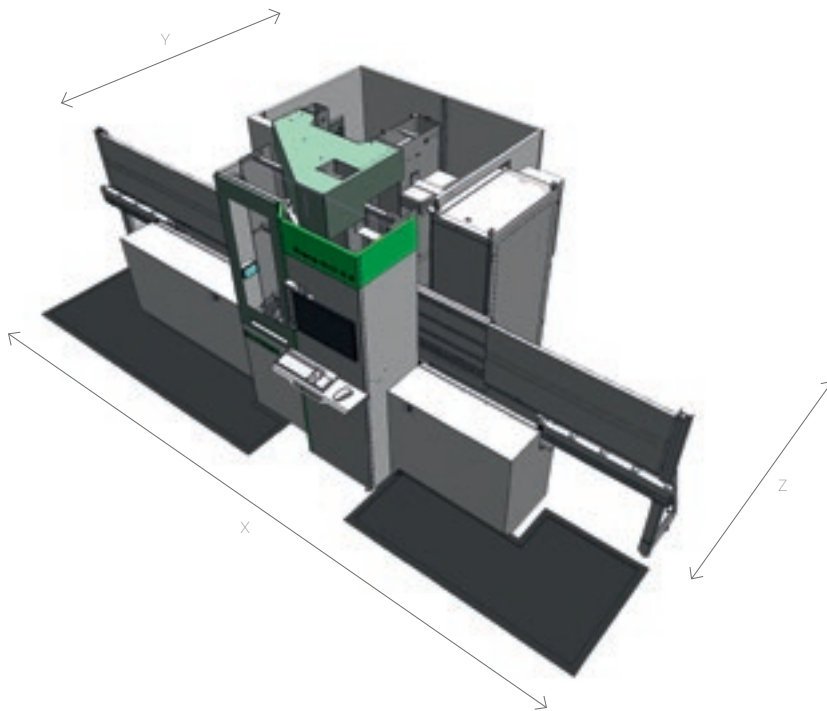
MACHINE CUSTOMISATION DEPENDING ON PRODUCTION REQUIREMENTS



6.5 kW HSK F63 as standard with integrated C-axis. Two bore configurations: single head with 28 tools, and dual head with 44 tools.



TECHNICAL SPECIFICATIONS



Machine size	mm/inch	5300x2300x2300 / 209x90x90
Min. size of machined panel	mm/inch	200x35x8 / 8x1,3x0,3
Max. size of machined panel	mm/inch	3200x1250x60 / 126x49x2,3
Vector speed	m/min	(x-y) = 65, z=20

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.

Working conditions: boring, milling. Weighted surface noise level A (L_{pfA}) dB(A) 78. Uncertainty of measurement K = 4 dB (A). The measurement was carried out in compliance with UNI EN ISO 11202, UNI EN ISO 3746, UNI EN ISO 19085-3:2018 and subsequent modifications.

The noise levels indicated are output levels and do not necessarily represent safe operational 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 operative personnel are exposed to include the length of exposure, the characteristics of the work environment, other emission sources, i.e. the number of machines and machining operations in the vicinity. In any case, this information will help the machine user 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 have some guidance for the planning phase.
- Virtual prototyping of the piece to avoid collisions and ensure optimal machine equipment.
- Machining operation simulation with a calculation of the execution time.



MANAGING PRODUCTION IN A SIMPLE, USER- FRIENDLY MANNER



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



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

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

MANAGE THE JOB ORDER



PLAN

SMART CONNECTION

Powered by Retuner



SCHEDULE

WORK

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

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%

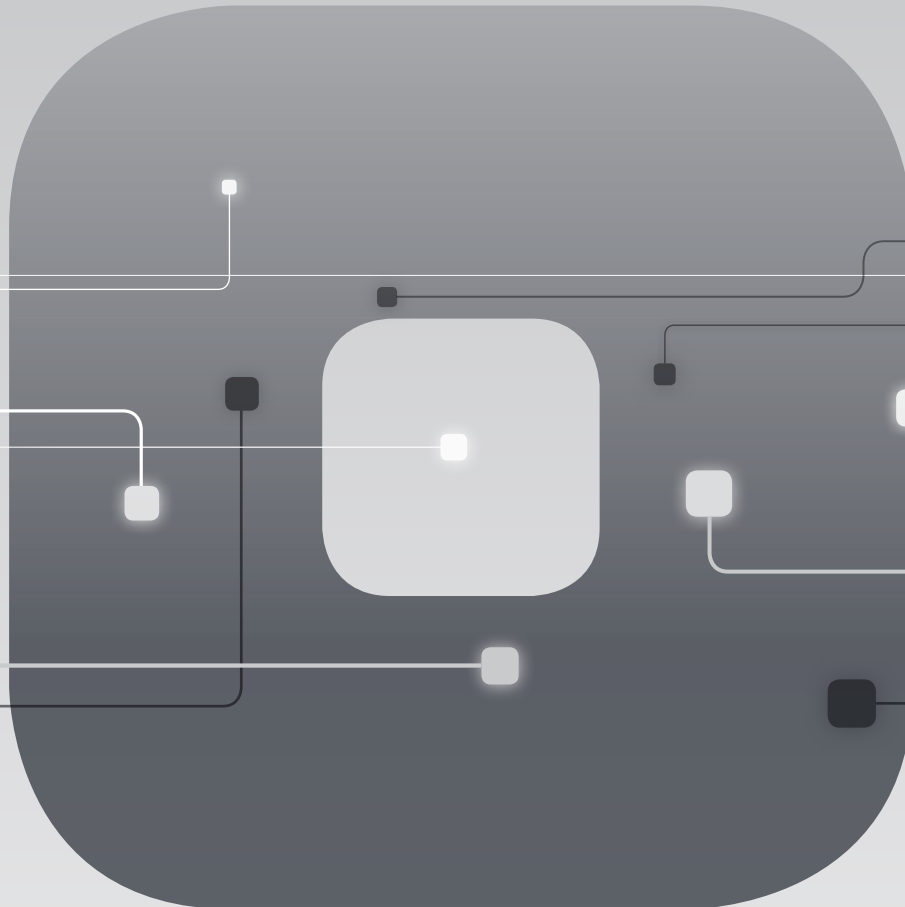
OF SPARE PARTS ORDERS
DELIVERED IN FULL ON
TIME

88%

OF CASES SOLVED WITH
THE FIRST ON-SITE VISIT

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



in collaboration with **accenture**

MATCH WITH

Biesse is the ideal partner throughout the entire production process. Courtesy of a complete range of cutting-edge products combined with the ongoing development of latest-generation technologies, Biesse is ready to respond to even the most complex requirements of companies within the sector.

We are on hand to recommend the ideal technologies to support your business, for efficient and competitive production: machining centres, panel saws, edgebanding machines, vertical and horizontal drilling machines, sanders and handling and assembly solutions.

STREAM A SMART

EVOLVING TECHNOLOGY



Stream A SMART is the new range of automatic single-sided edgebanding machines, designed for artisan producers and small companies looking for ease of use and customised production.

ROVER A FT

LEADING TECHNOLOGY FOR QUALITY PRODUCTS



Rover A FT is the new high-performance machining centre for Nesting operations. Compact and efficient, with a gantry structure, the Rover A FT offers top-of-the-range technology and guarantees optimum precision in every machining operation.

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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Biesse world.

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