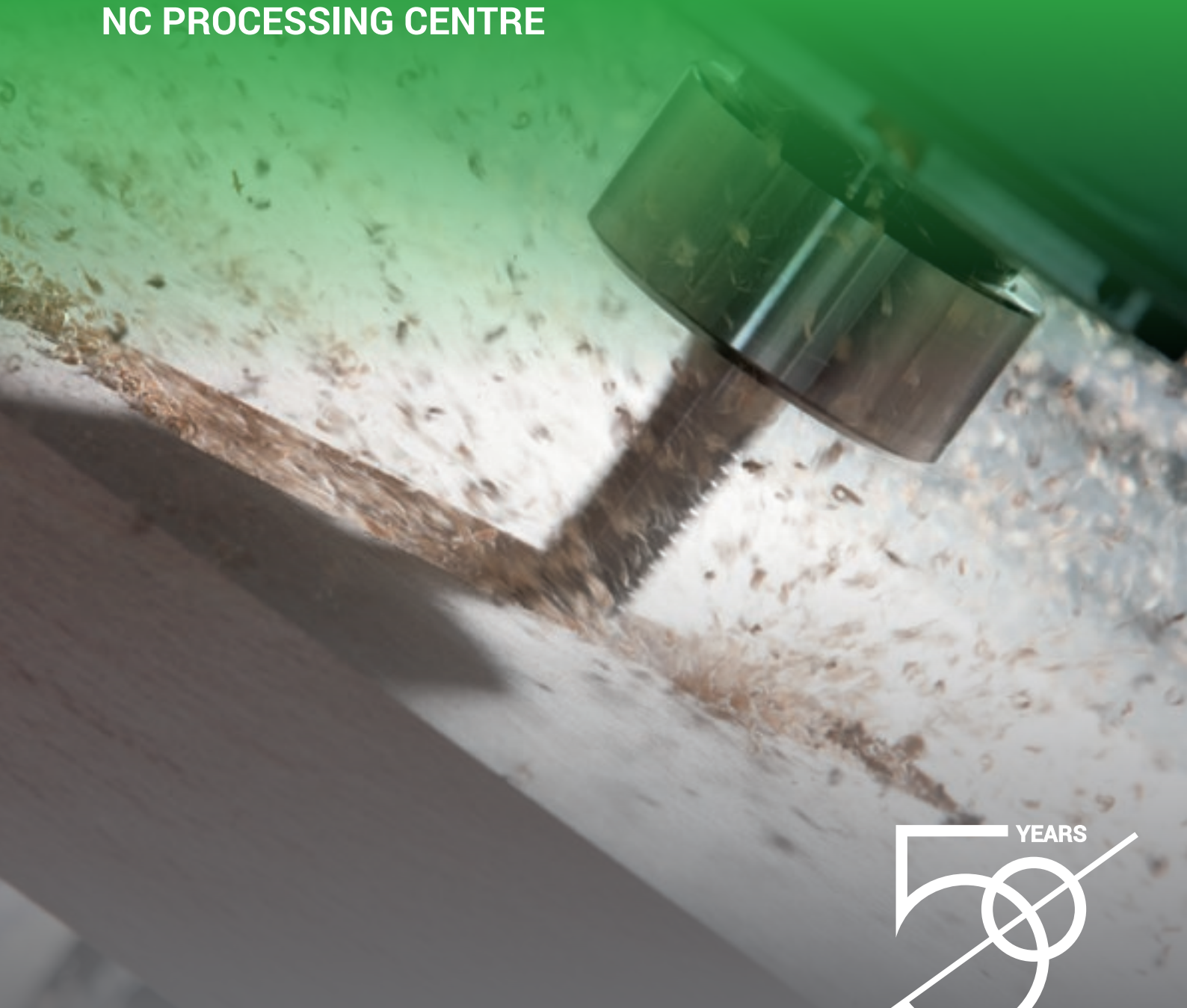


PRO VER GOLD

NC PROCESSING CENTRE

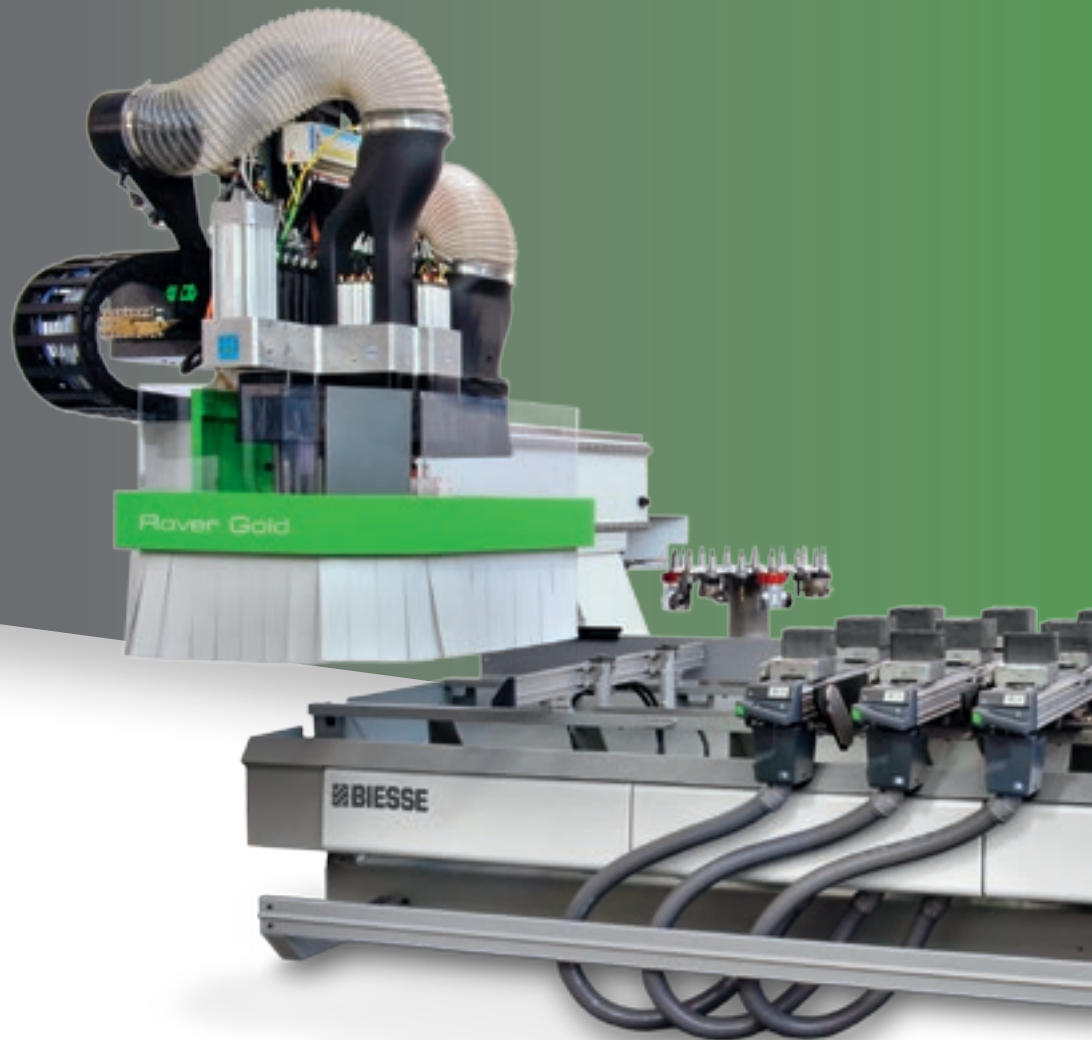


 **BIESSE**

YEARS

 **BIESSEGROUP**

MAXIMUM PRODUCTIVITY, MINIMUM FOOTPRINT



THE MARKET DEMANDS

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

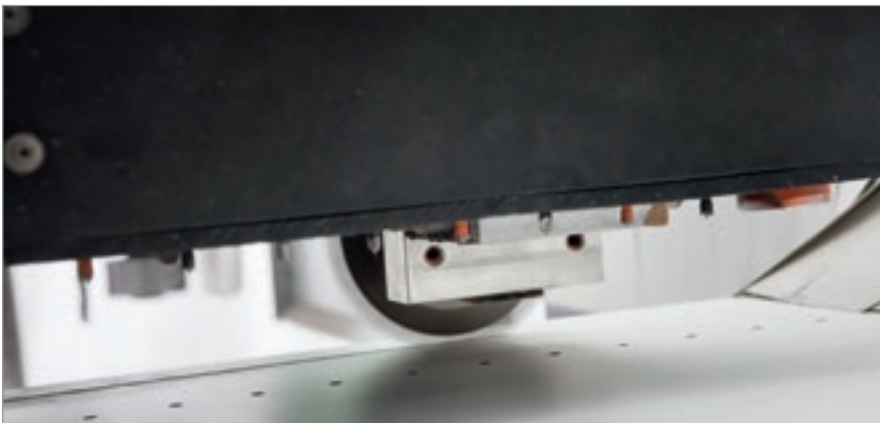
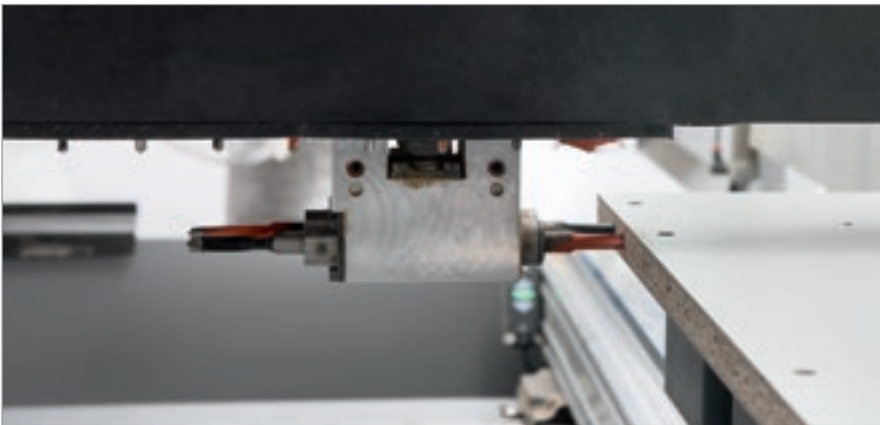
with **technological solutions** that influence and support technical expertise as well as process and material knowledge. **Rover Gold** is the compact machining centre designed for high performances capable of meeting various levels of production requirements. It's the ideal machine for those who require a flexible and reliable solution.

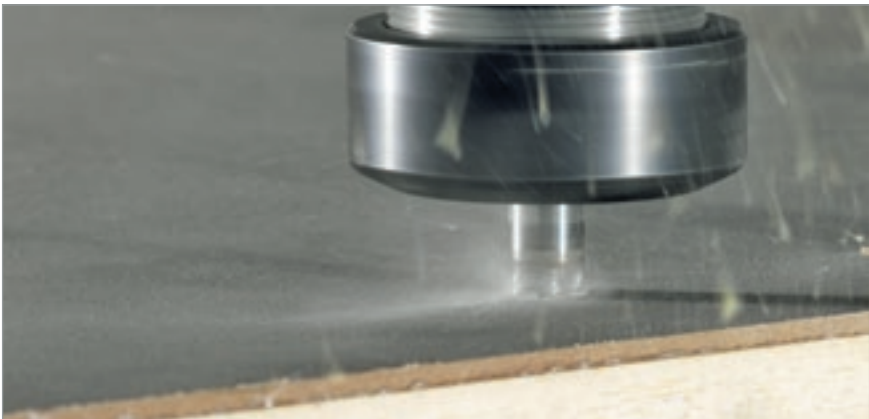


ROVER GOLD

- ✔ A SINGLE PROCESSING CENTRE FOR ALL TYPES OF MACHINING OPERATION
- ✔ HIGH FINISH QUALITY
- ✔ SET UP TIME REDUCTION
- ✔ HIGH-TECH BECOMES ACCESSIBLE AND INTUITIVE
- ✔ MACHINE CUSTOMISATION DEPENDING ON DIFFERENT PRODUCTION REQUIREMENTS

A SINGLE PROCESSING CENTRE FOR ALL TYPES OF MACHINING OPERATIONS





REDUCED SET UP TIME

The Biesse work table is guaranteed to hold the work piece securely in place and ensures quick and easy tool changeover.



The innovative **ATS (Advanced Table setting-System) work table** has a universal design for great flexibility and fast setup. It is covered by exclusive patents allowing for rapid locking of pieces of any shape and size, with a drastic reduction in setup time.



The quick change coupling system guarantees fast, simple replacement of the **vacuum units** and **Uniclamps** used to lock narrow and particularly thick pieces.



MAXIMUM LOADABLE PIECE

The open front cowl supports the loading of very-large sizes up to 1700 mm in Y onto the machine, thus enabling the pre-sectioning phase to be skipped or machining operations to be performed for non-standard productions.





It is possible to switch from one machining operation to the next with no need for operator intervention for tool changes with revolver type **16 pockets tool magazine**, thanks to the large number of tools and aggregates available at machine side.



Rack type tool magazine with **10 pockets**.

ADVANCE OPERATING GROUP GUARD CONFIGURATION



ROVER TECHNO LOGY

COMPLETE SOLUTIONS

The high technological content of the machining centres most widely sold in the world meets the requirements of wood industry professionals.

Configurations equipped with 3 or 4 independent and interpolation axes and fitted with aggregates capable of handling any type of machining operation. The components of all the configurations are the same as those one used in higher-end solutions.



HIGH FINISH QUALITY

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



ISO 30 or HSK F63 electrospindle, 13.2 kW.



Boring Head BH 26 2L..



Interpolating **C** axis with continuous rotation of the aggregate on 360 (optional).

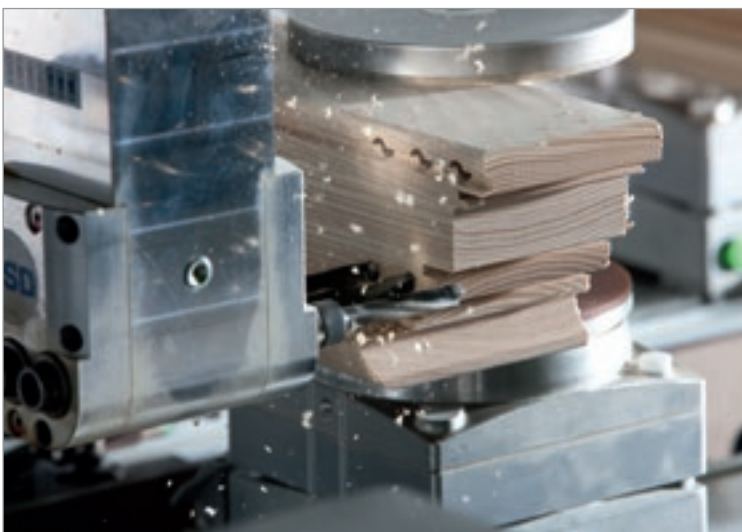


Fixed **vertical motor** dedicated to additional milling / routing operations upto 1740 mm along Y axis.



Fixed **horizontal motor** with one outlet for lock routing and horizontal machining operations.

AGGREGATES TO PERFORM ANY MACHINING



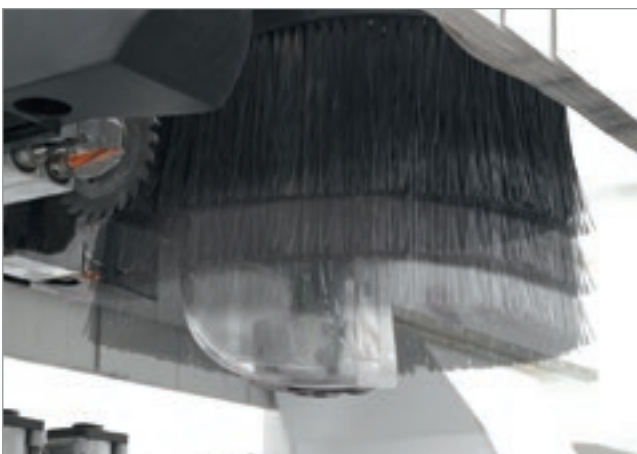
OPTIMAL CLEANING OF MACHINED PIECE AND WORK AREA



Motorised conveyor belt for the removal of chips and waste (Optional).



The **automatic lubrication** ensures the continuous lubrication of the machine's main moving parts without the need for operator intervention.



Adjustable suction hood with 6 settings (for 4 axes).

MAXIMUM OPERATOR SAFETY



Pressure-sensitive **floor mats** enable the machine to operate at constant maximum speed.



Remote control panel for direct and immediate operator control (Optional).



Anti-Projection safety strips guarantee the full operation and total safety in accordance with regulations in force.

MAXIMUM VISIBILITY OF THE WORKING UNIT

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



THE MOST ADVANCED TECHNOLOGY CLOSE AT HAND



BPAD

Wi-Fi control console for performing the key functions required during the preparation of the working area and the tooling of the working units and tool holder warehouses.

The bPad is a valuable tool for supporting teleservicing, courtesy of the camera and bar code reader functions.



BTOUCH

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 bSuite 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.

BPAD AND BTOUCH ARE AN OPTIONAL FEATURE WHICH CAN ALSO BE BOUGHT AFTER PURCHASING THE MACHINE, IN ORDER TO IMPROVE THE FUNCTIONALITY AND APPLICATION OF THE TECHNOLOGY AVAILABLE.

INDUSTRY 4.0 READY



Industry 4.0 is the new industry frontier, based on digital technologies and on machines that speak to companies. The products driving this revolution can communicate and interact independently within production processes, which in turn are connected via intelligent networks.

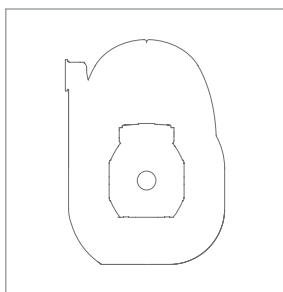


Biesse is dedicated to transforming the factories owned by our customers into real-time factories that are ready to provide digital manufacturing opportunities. Intelligent machines and software become indispensable tools that facilitate the daily work of those who machine wood and other materials on a daily basis.

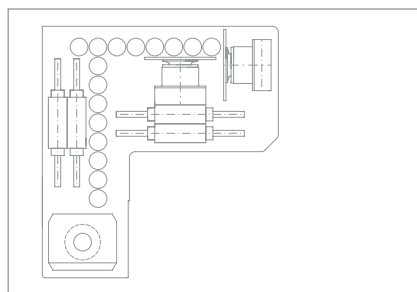
INDUSTRY 4.0 READY

MACHINE CUSTOMISATION DEPENDING ON DIFFERENT PRODUCTION REQUIREMENTS

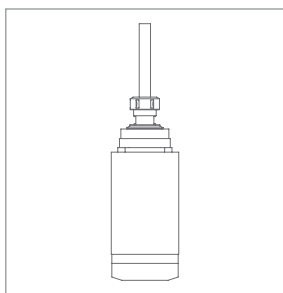
A team of specialised sales engineers
can understand production requirements
and suggest the optimal machine configuration.



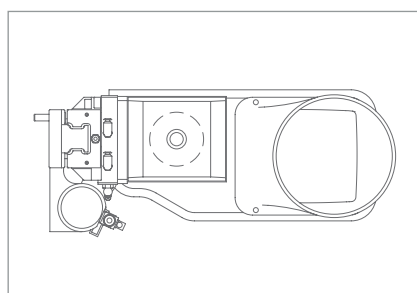
ISO 30 or HSK F63
electrospindle, 13.2 kW.



26 positions boring heads
bh26 2L.



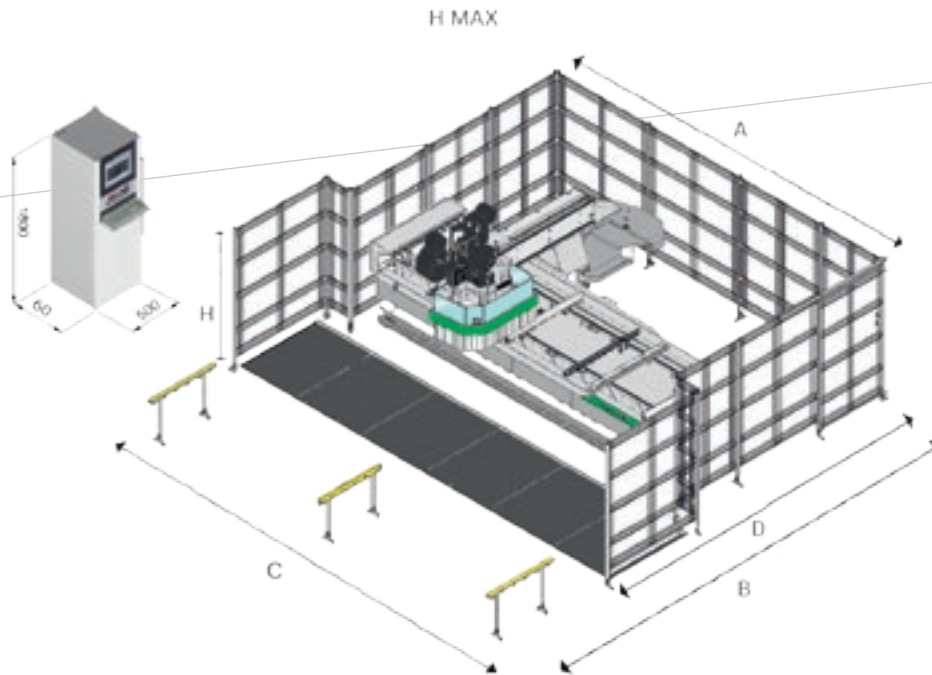
Horizontal 1 outlet
4.5 kW electrospindle.



6 kW vertical milling unit.



FULLY INTEGRATED INTO PRODUCTION FLOWS



FOOT PRINT

	A	B	C	D	H	MAX
	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch
Rover Gold 1232	6080/239.3	4807/189.8	5837/229.8	4864/191.5	1000/39.3	2430/95.6
X/Y/Z axis speed	80/60/25 m/min - 262.4/196.8/82					

WORKING FIELD

	X	Y	Z
	mm/inch	mm/inch	mm/inch
Rover Gold 1232	3280/129.1	1260/49.6	180/7.0

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.

A weighted sound pressure level (LpA) during machining for operator workstation on vane-pump machine Lpa=79dB(A) Lwa=96dB(A) A-weighted sound-pressure level (LpA) for operator workstation and sound power level (LwA) during machining on cam-pump machine Lwa=83dB(A) Lwa=100dB(A) K measurement uncertainty dB(A) 4

The measurement was carried out in compliance with UNI EN 848-3:2007, UNI EN ISO 3746: 2009 (sound power) and UNI EN ISO 11202: 2009 (sound pressure levels at workstation) during panel machining. The noise levels shown are emission levels and do not necessarily correspond to safe operation levels. Despite the fact that there is a relationship between emission and exposure levels, this may not be used in a reliable manner to establish whether further measures need to be taken. The factors determining the exposure level for the workforce include length of exposure, work environment characteristics, other sources of dust and noise, etc. i.e. the number of other adjoining machines and processes. At any rate, the above information will enable the operator to better evaluate dangers and risks.

HIGH-TECH BECOMES ACCESSIBLE AND INTUITIVE

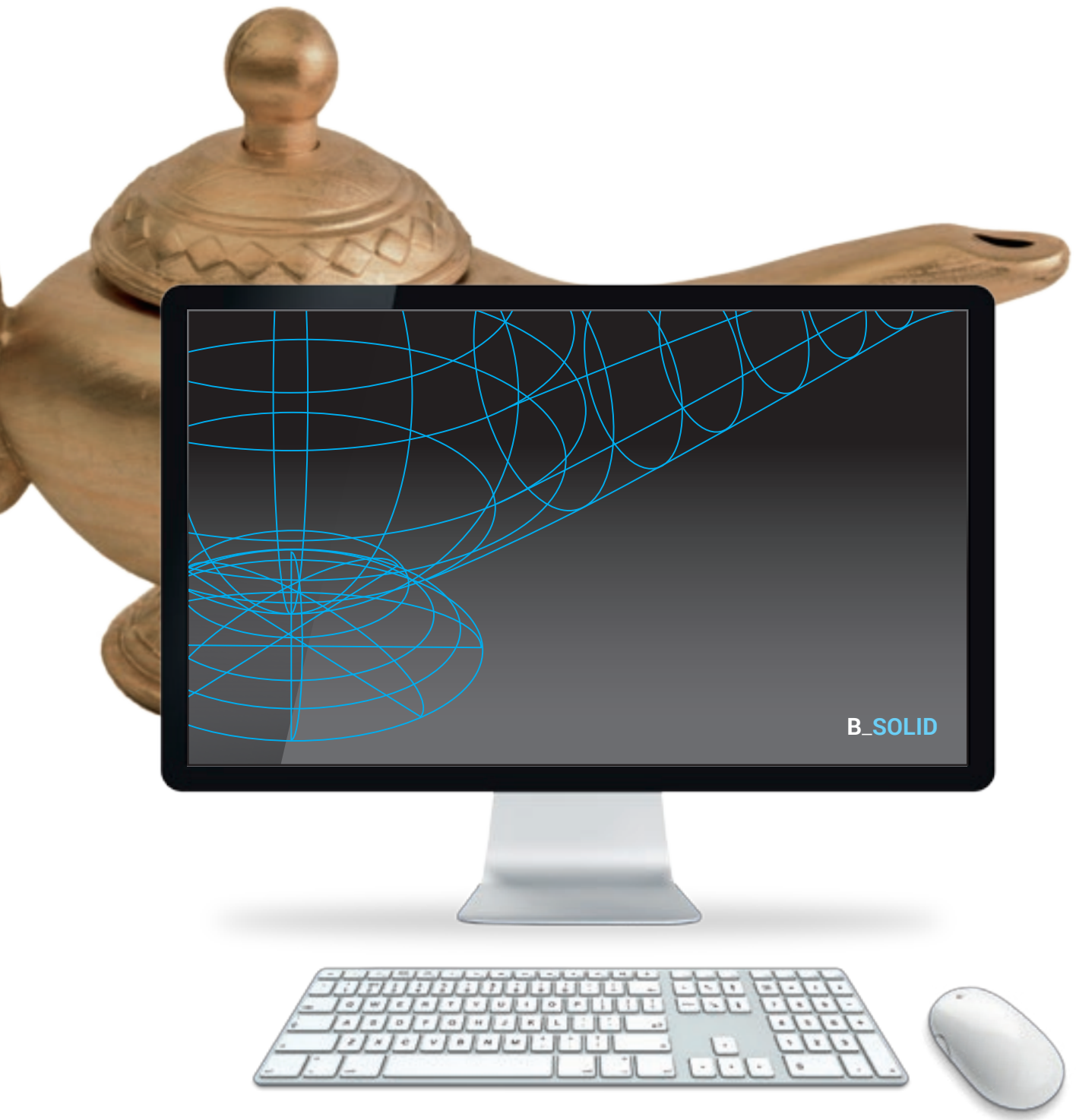


B_SOLID IS A 3D CAD CAM SOFTWARE PROGRAM THAT SUPPORTS THE PERFORMANCE OF ANY MACHINING OPERATION THANKS TO VERTICAL MODULES DESIGNED FOR SPECIFIC MANUFACTURING PROCESSES.

- 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.



B_SOLID



IDEAS TAKE FORM AND SHAPE



B_CABINET IS A UNIQUE SOLUTION FOR MANAGING FURNITURE PRODUCTION FROM THE 3D DESIGN PHASE TO PRODUCTION FLOW MONITORING.

IT'S NOW POSSIBLE TO PLAN THE DESIGN OF A SPACE AND QUICKLY PASS FROM CREATING THE SINGLE ELEMENTS TO GENERATING PHOTO-REALISTIC CATALOGUE IMAGES, FROM GENERATING TECHNICAL PRINTS TO PRODUCING REQUIREMENT REPORTS, AND ALL IN ONE SINGLE ENVIRONMENT.

B_CABINET FOUR, SUPPLEMENTARY MODULE, MAKES IT EASY TO MANAGE ALL THE WORK PHASES (CUTTING, MILLING, BORING, EDGEBANDING, ASSEMBLY, PACKAGING), JUST WITH A CLICK.

B_CABINET FOUR INCLUDES AN ENVIRONMENT DEDICATED TO THE REAL TIME MONITORING OF THE PROGRESS OF THE PRODUCTION PHASES. THAT MEANS COMPLETE CONTROL OF THE ORDER STATUS, STEP BY STEP, THANKS TO CHARTS AND 3D IMAGES.

B_CABINET



SOPHIA

GREATER VALUE FROM MACHINES



SOPHIA is the IoT platform created by Biesse in collaboration with Accenture which enables its customers to access a wide range of services to streamline and rationalise their work management processes.

It allows alerts and indicators to be sent to the customer in real time, in relation to production, the machines used and the type of process carried out. These are detailed instructions for more efficient use of the machine.

□ **10% CUT IN COSTS**

□ **50% REDUCTION
IN MACHINE DOWNTIME**

□ **10% INCREASE
IN PRODUCTIVITY**

□ **80% REDUCTION IN PROBLEM
DIAGNOSTICS TIME**

**SOPHIA TAKES THE INTERACTION BETWEEN
CUSTOMER AND SERVICE TO A HIGHER LEVEL.**

iOT
SOPHIA

IoT - SOPHIA provides a comprehensive overview of the specific machine performance features, with remote diagnostics, machine stoppage analysis and fault prevention. The service includes a continuous connection with the control centre, the option of calling for assistance from within the customer app (such calls are managed as priorities), and an inspection visit for diagnostic and performance testing within the warranty period. Through SOPHIA, the customer receives priority technical assistance.

PARTS
SOPHIA

PARTS SOPHIA is the easy new, user-friendly and personalised tool for ordering Biesse spare parts. The portal offers customers, dealers and branches the chance to navigate within a personalised account, consult the constantly updated documentation of the machines purchased, and create a spare parts purchase basket indicating the real time availability in the warehouse and the relative price list. In addition, the progress of the order can be monitored at all times.

 **BIESSE**

in collaboration with  **accenture**

SERVICE & PARTS

Direct, seamless co-ordination of service requests between Service and Parts. Support for Key Customers by dedicated Biesse personnel, either in-house and/or at the customer's site.

BIESSE SERVICE

- ✔ Machine and system installation and commissioning.
- ✔ Training centre dedicated to Biesse Field engineers, subsidiary and dealer personnel; client training directly at client's site.
- ✔ Overhaul, upgrade, repair and maintenance.
- ✔ Remote troubleshooting and diagnostics.
- ✔ Software upgrade.

500

Biesse Field engineers in Italy and worldwide.

50

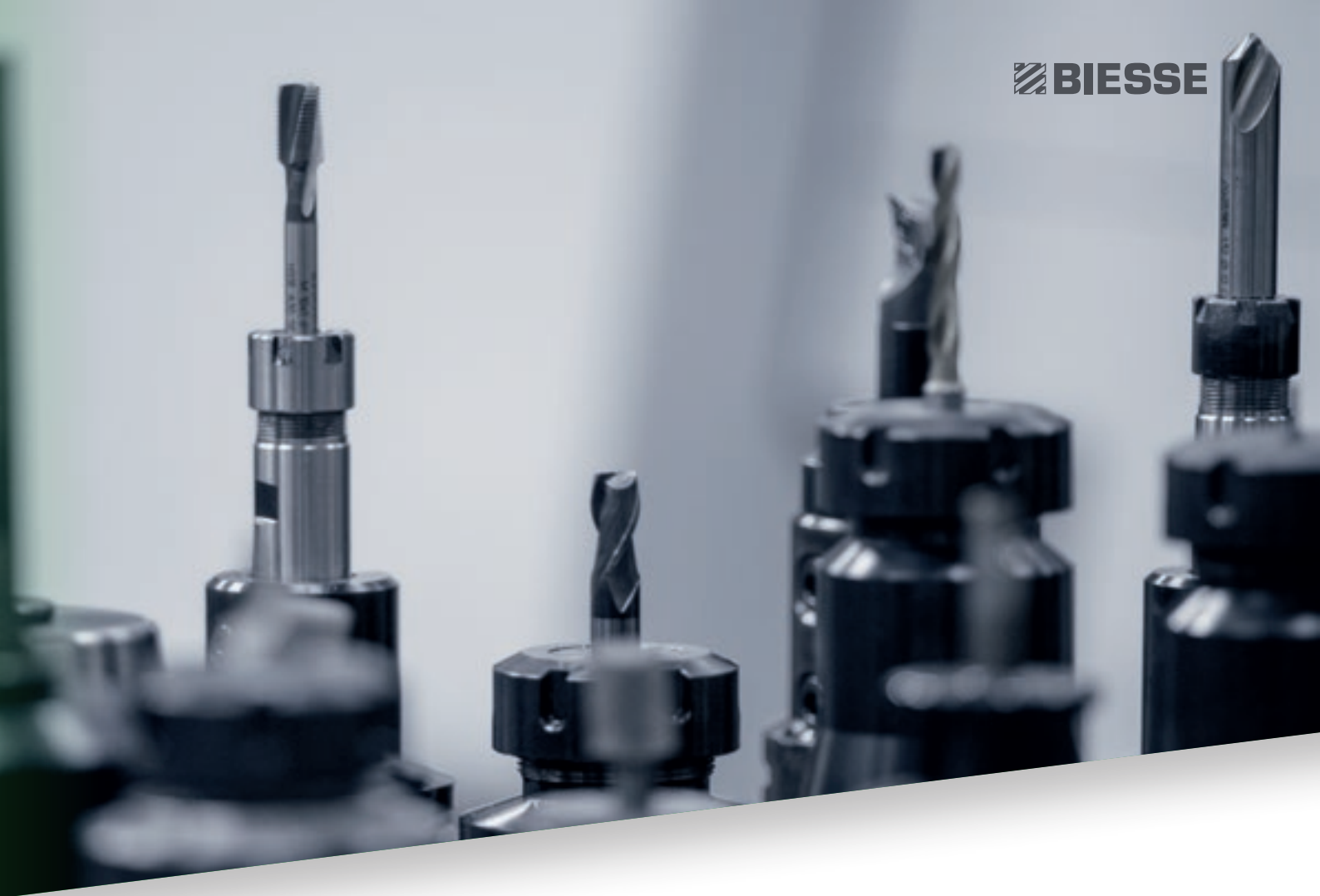
Biesse engineers manning a Teleservice Centre.

550

certified Dealer engineers.

120

training courses in a variety of languages every year.

A close-up photograph of several metal drill bits and tool components, arranged in a row. The bits are of different sizes and designs, some with standard double-flute and others with more complex, multi-fluted designs. They are set against a blurred background, highlighting their metallic texture and sharp edges.

The Biesse Group promotes, nurtures and develops close and constructive relationships with customers in order to better understand their needs and improve its products and after-sales service through two dedicated areas: Biesse Service and Biesse Parts. With its global network and highly specialized team, it offers technical service and machine/component spares anywhere in the world on-site and 24/7 on-line.

BIESSE PARTS

- ✔ Original Biesse spares and spare kits customized for different machine models.
- ✔ Spare part identification support.
- ✔ Offices of DHL, UPS and GLS logistics partners located within the Biesse spare part warehouse, with multiple daily pick-ups.
- ✔ Order fulfillment time optimized thanks to a global distribution network with de-localized, automated warehouses.

92%
of downtime machine orders fulfilled
within 24 hours.

96%
of orders delivered in full on time.

100
spare part staff in Italy and worldwide.

500
orders processed every day.

MADE WITH BIESSE

BIESSE GROUP TECHNOLOGIES JOIN FORCES WITH LAGO'S INNOVATION AND TOTAL QUALITY MANAGEMENT PROCESSES.

In the crowded world of domestic design, Lago takes its place as an emerging brand, thanks to a collection of stimulating products and a corporate philosophy that embraces the interaction between business and art, coupled with on-going research into sustainable development.

"We created a number of projects, or rather, concepts - states Daniele Lago - that have shaped Lago as we see it today: we saw design as a cultural vision that applies not only to individual products, but rather to the entire business chain".

"Flexibility is the key word here at Lago" says Carlo Bertacco, Manufacturing Manager. "We started to introduce the concept of processing only outstanding orders, which enabled us to reduce our footprint and empty the site from the very beginning".

"The machinery that we purchased - states Bertacco - is great, it entailed a limited investment versus the capabilities it offers and is linked to a specific manufacturing approach. What I am talking about is a given manufacturing volume with Lago-standard quality lev-

els and the possibility of customising as late as possible, at the customer's request: in short, the very basic principles of lean manufacturing".

*Source: IDM Industria del Mobile
Lago, our customer since 1999, is one of most prestigious Italian furniture brands in the world.*



LIVE THE EXPERIENCE



Interconnected technologies and advanced services that maximise efficiency and productivity, generating new skills to serve better our customer.

LIVE THE BIESSE GROUP EXPERIENCE AT OUR CAMPUSES ACROSS THE WORLD.

