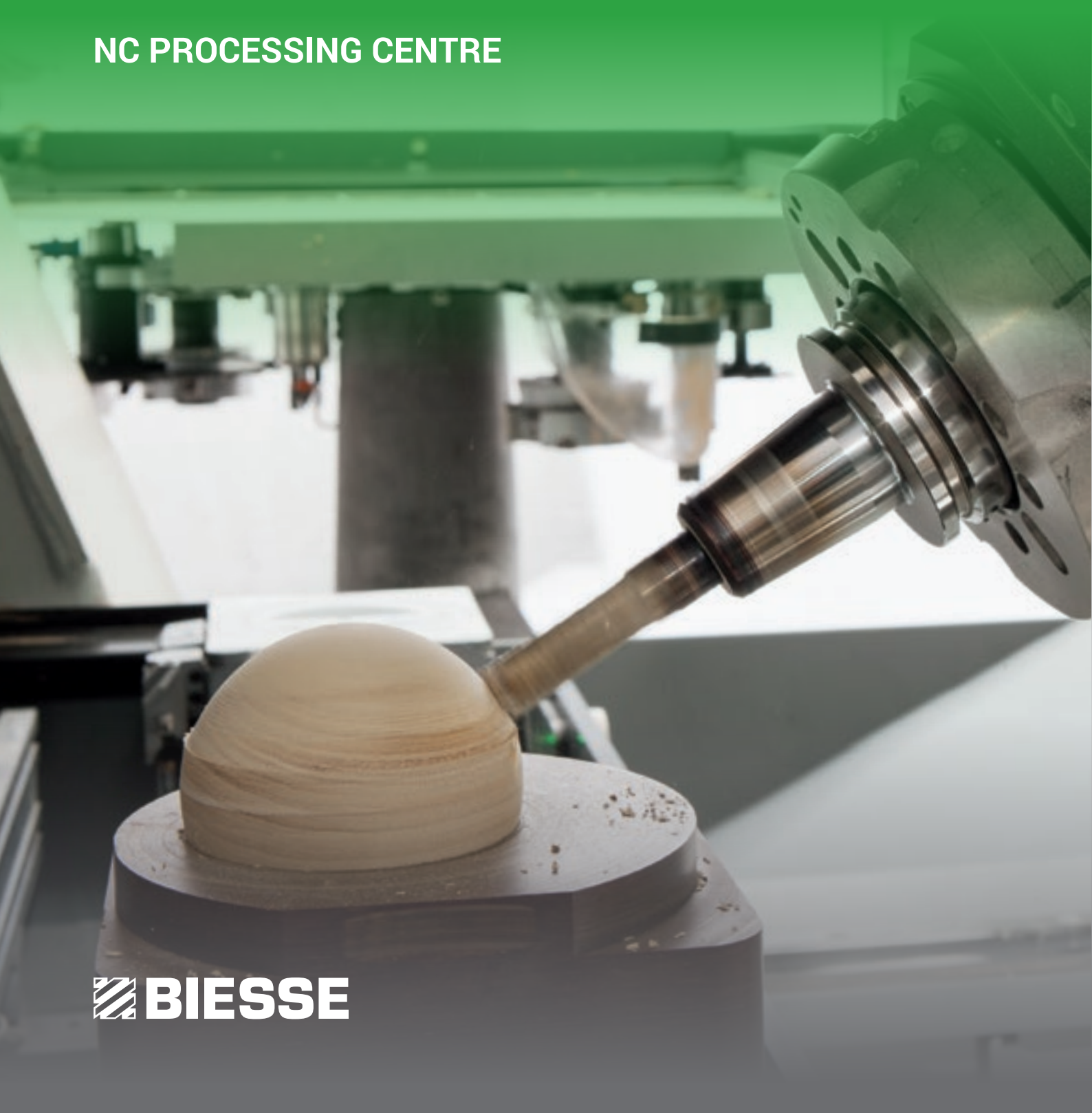


# PRO VER A SMART

NC PROCESSING CENTRE



 **BIESSE**

# A CHOICE FOR THE FUTURE

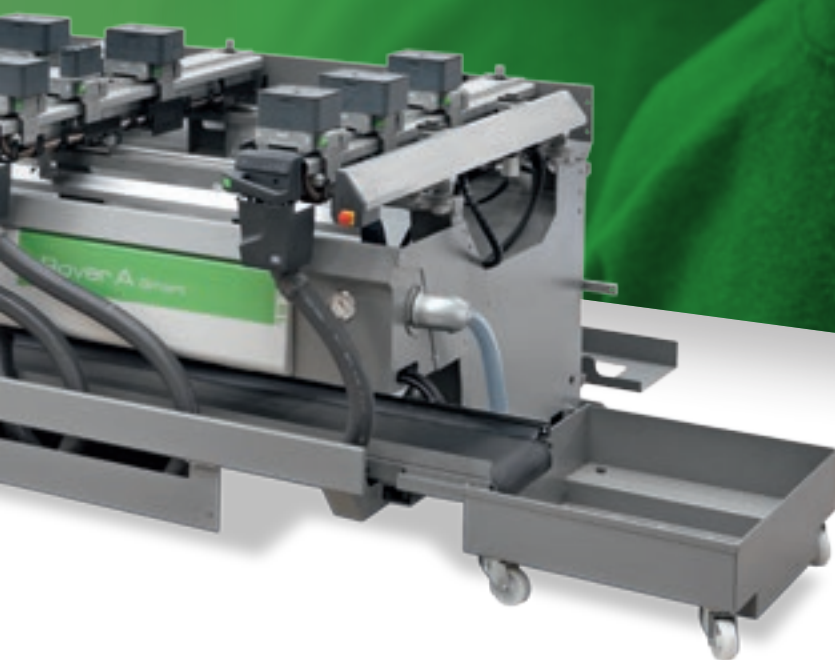


## THE MARKET DEMANDS

a change in manufacturing processes, enabling companies to accept the largest possible number of orders. This is coupled with the need to maintain high quality standards and product customisation with quick and defined delivery times, as well as responding to the needs of the most creative architects.

## BIESSE MEETS

these requirements with technological solutions that enhance and support technical expertise as well as process and material knowledge. **Rover A Smart** is a simple, userfriendly 5-axis NC processing centre for producing any type of furnishing item. It's ideally suited to both small and large joineries that need to manufacture either irregular shaped components or standard-size components in small batches.



## **ROVER** A SMART

- ✔ OPTIMUM PRECISION AND HIGH FINISH QUALITY.
- ✔ ABILITY TO PROCESS LARGE SIZES.
- ✔ REDUCED TOOL CHANGEOVER TIME.
- ✔ HIGH-TECH BECOMES ACCESSIBLE AND INTUITIVE.

# A SINGLE PROCESSING CENTRE TO MEET EVERY PRODUCTION NEED

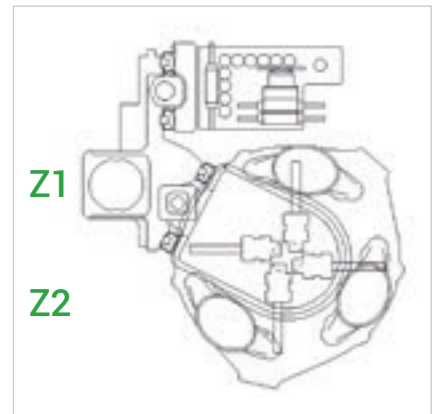
5-axis technology to give extra value to the finished product. Allows complex pieces to be created with the utmost simplicity, accuracy and finish quality.



# OPTIMUM PRECISION AND HIGH FINISH QUALITY



Maximum reliability and productivity thanks to the use of first class components on all the machines of the Rover range.



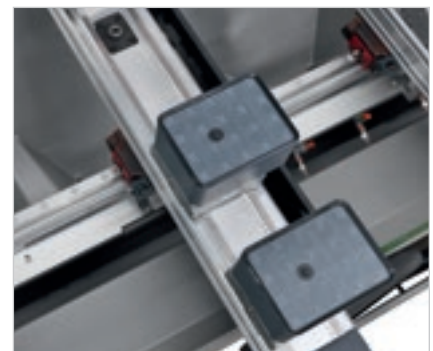
The two independent Z axes guarantee excellent machinability in Z. The high speed of the Z axis (30m/min) allows the 5-axis unit to perform machining cycles and tool changes very quickly.

Linear slide guides for the work table, for perfect positioning accuracy and stability.

- ▶ 13 kW of power, even at just 12,000 rpm, with “endless”
- ▶ A and C axis rotation to avoid restarts on the piece.
- ▶ Adjustable suction hood (12 positions)
- ▶ A sensor checks the vibrations induced by the tool.

## BHZ 17 L - BH24

17 or 24 tools with rotation up to 6,000 rpm - can be adjusted via the inverter for top boring quality and precision.



# 5 AXES

## USER-FRIENDLY TECHNOLOGY

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

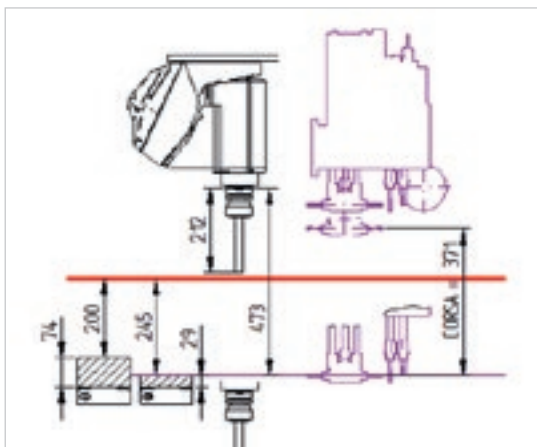
**A perfect combination of Biesse innovation and Italian genius.**

The 5-axis operating head, equipped with 13 kW HSD spindle and with 360° continuous rotation on the vertical and horizontal axes, enables the machining of complex-shapes ensuring quality, precision and absolute long term reliability.



# ABILITY TO PROCESS LARGE SIZES

The machine can accept pieces of 245mm (the only one in its category to do so), so every job order can be accepted and pieces of considerable thickness can be machined.

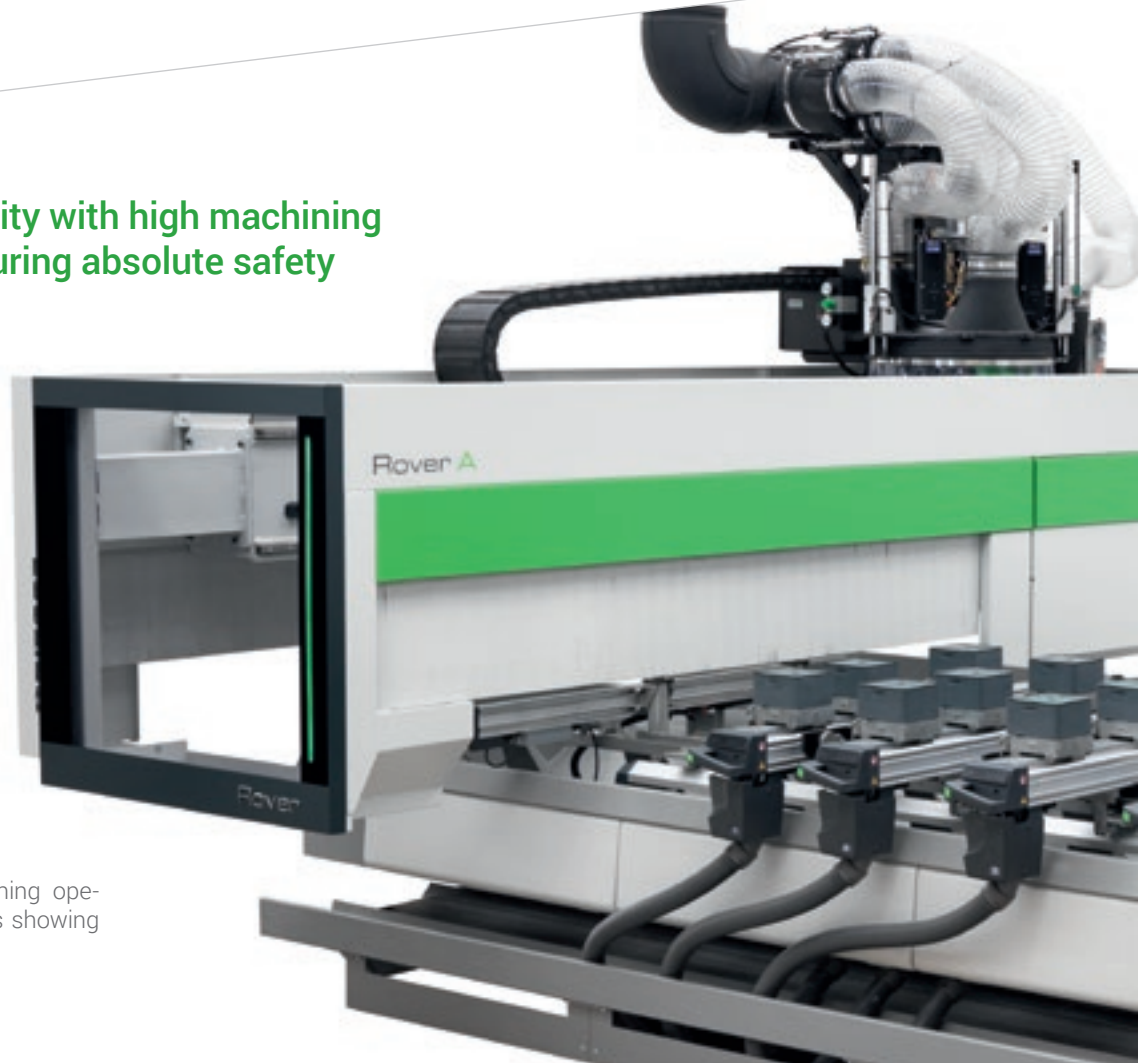


**THE POSSIBILITY TO LOAD PANELS WITH A DEPTH OF 1900MM MEANS THE PRE-SECTIONING PHASE CAN BE AVOIDED AND PIECES LARGER THAN THE WORKING AREA CAN BE MACHINED THANKS TO DOUBLE POSITIONING**



# MAXIMUM OPERATOR SAFETY

Excellent productivity with high machining speeds, whilst ensuring absolute safety for the operator.



Maximum visibility of machining operation. LED bar with 5 colours showing machine status in real time.



**Remote control panel** for direct and immediate operator control.



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



**Side curtain guards** to protect the working unit; they can be moved to enable the machine to work at maximum speed in total safety.

# VECTORIAL SPEED OF 100M/MIN

# REDUCED TOOL CHANGEOVER TIME

The Biesse work table guarantees an optimum hold on the piece and quick, easy tooling.



## Uniclamp

Pneumatic locking systems with quick release.



## SA (Set Up Assistance)

The work table has a guided positioning function, providing the operator with suggestions on how to position the panel (indicating the position of the work tables and locking systems) and protecting the working area from the risk of collision with the tool.

## 16-place Revolver tool magazine on the X carriage

so that tools and aggregates are always readily available. Equipped with a protective tool cover with automatic opening.



## 12-place tool magazine on the base

The tooling of the 16-place quick Revolver magazine can be automatically modified by picking up the tools from the 12-place rack magazine. This means machining can continue without hampering pendular operation. The first front position acts as a Pick-Up for tooling the Revolver magazine.

Equipped with a protective tool cover with automatic opening.



# REDUCED CLEANING TIMES TO ENSURE MAXIMUM PRODUCTIVITY



**5-axis milling unit** with 360mm hood with adjustable height.



**Motorised conveyor belt** for the removal of chips and waste.



**Chip collection basin** supplied with the chip mat.

# 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

# HIGH-TECH BECOMES ACCESSIBLE AND INTUITIVE



**BSOLID 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, with endless possibilities.
- 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.



# SOPHIA

**GREATER VALUE FROM MACHINES**



**SOPHIA IS THE BIESSE IOT PLATFORM WHICH ENABLES CUSTOMERS TO ACCESS AN EXTENSIVE RANGE OF SERVICES TO STREAMLINE AND RATIONALISE THEIR WORK MANAGEMENT PROCESSES.**

**IT IS BASED ON THE ABILITY TO SEND REAL-TIME INFORMATION AND DATA ON THE TECHNOLOGIES IN USE, OPTIMISING THE PERFORMANCE AND PRODUCTIVITY OF MACHINES AND SYSTEMS. IT CONSISTS OF TWO AREAS: IOT AND PARTS.**



- **REDUCED PRODUCTION TIME**
- **LOWER COSTS**
- **REDUCTIONS IN MACHINE DOWNTIME**
- **OPTIMISATION OF THE PRODUCTION PROCESS**
- **INCREASE IN PRODUCTIVITY**
- **MAXIMUM QUALITY OF DAILY WORK**

The various functions of the **iOT** app offer a comprehensive overview of the specific machine performance features, with remote diagnostics, machine stoppage analysis and fault prevention.

**PARTS** is the new replacement parts web portal which allows users to navigate within a personalised account, providing access to all the information on purchases and enabling a replacement parts shopping cart to be submitted, and the progress of orders to be monitored.

# 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**

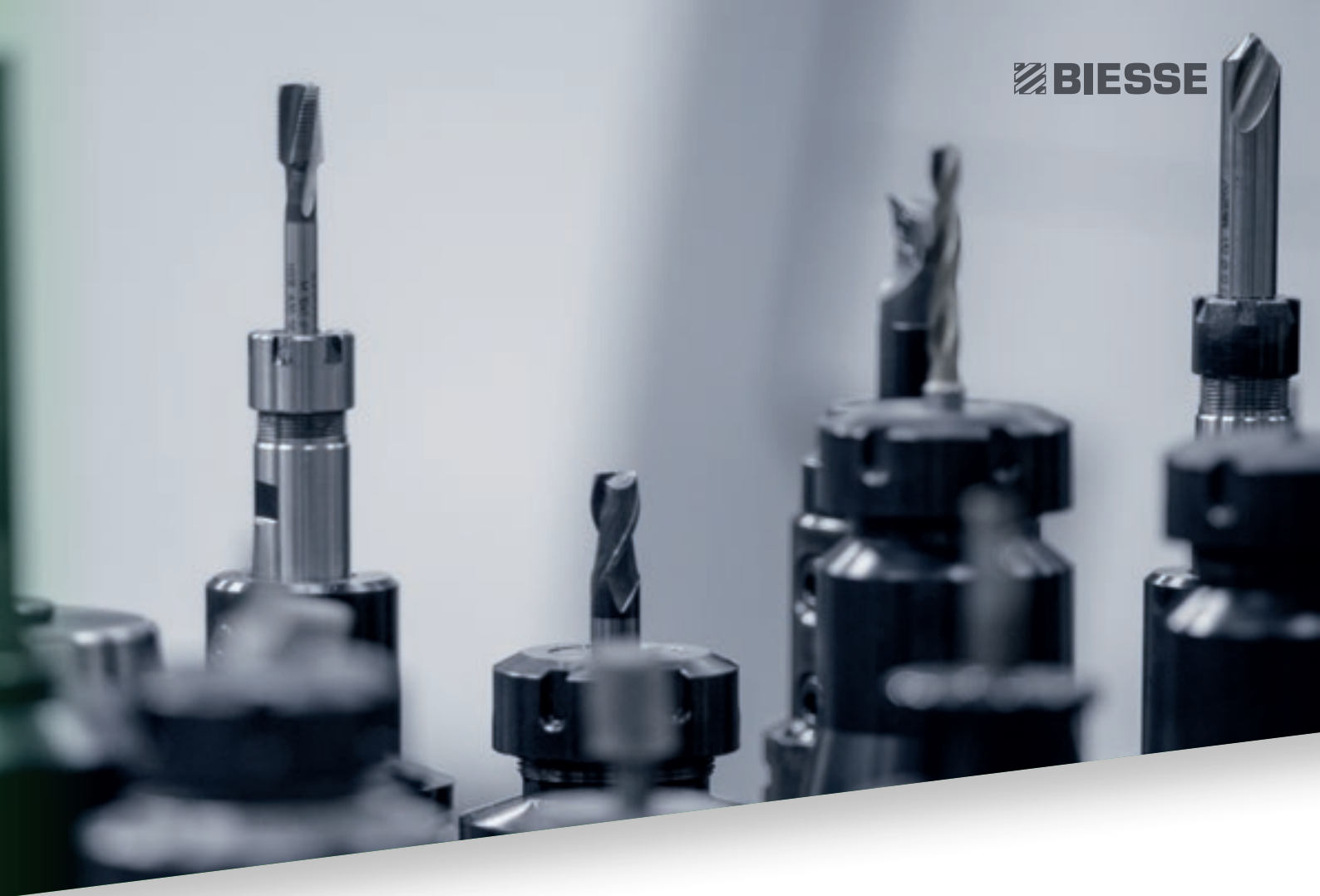
Biesse engineers manning a Teleservice Centre.

**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 black coatings. The background is a soft, out-of-focus grey.

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.

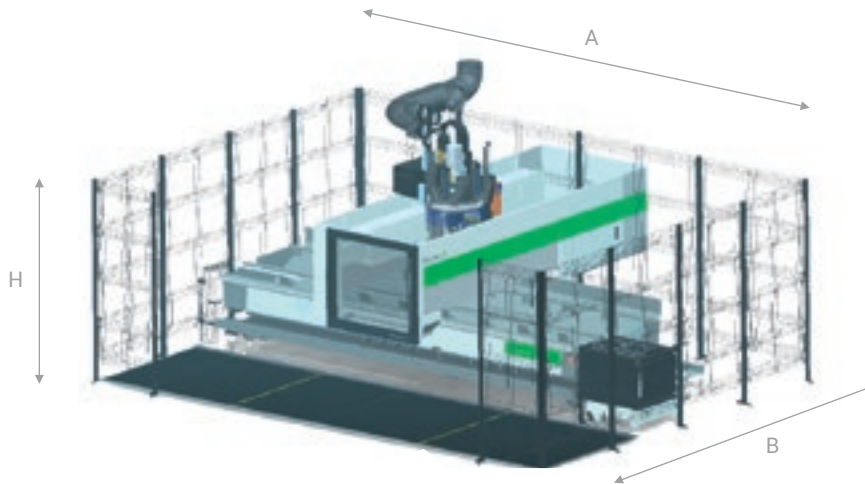
**92%**  
of downtime machine orders fulfilled  
within 24 hours.

**96%**  
of orders delivered in full on time.

**100**  
spare part staff in Italy and worldwide.

**500**  
orders processed every day.

# TECHNICAL SPECIFICATIONS



## WORKING TABLE

	X	Y	Z
Rover A 1632 Smart	3280	1620	245
Rover A 1643 Smart	4320	1620	245
Rover A 1659 Smart	5920	1620	245

## FOOT PRINT

	Configuration	Available magazine	A	B	H
Rover A 1632 Smart	1	12-place rack magazine	5600	4150	2770
	2	16-place Revolver tool magazine - 12-place rack magazine	5600	4610	2770
Rover A 1643 Smart	2	16-place Revolver tool magazine - 12-place rack magazine	6630	4610	2770
Rover A 1659 Smart	2	16-place Revolver tool magazine - 12-place rack magazine	8260	4610	2770

## AXIS SPEED

	H max
Axis speed X / Y / Z	80 - 60 - 20 m/min
Vector speed	100 m/min

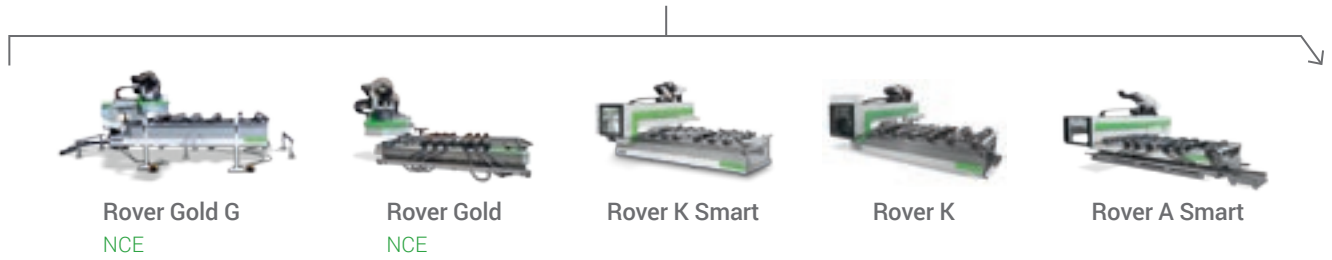
The technical specifications and drawings are non-binding. Some photos may show machines equipped with optional features. Biesse Spa reserves the right to carry out modifications without prior notice.

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

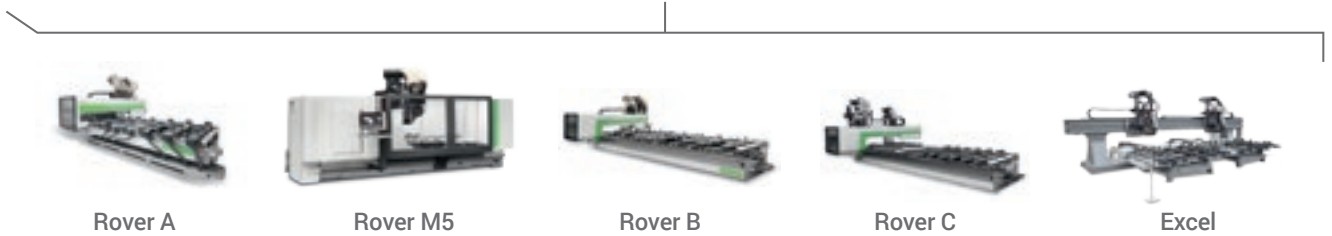
The measurement was carried out in compliance with UNI EN 848-3:2007, UNI EN ISO 3746: 2009 (sound power) and UNI EN ISO 11202: 2009 (sound pressure levels at workstation) during panel machining. The noise levels shown are emission levels and do not necessarily correspond to safe operation levels. Despite 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.

# MACHINING CENTRES RANGE

## CNC - ROUTING

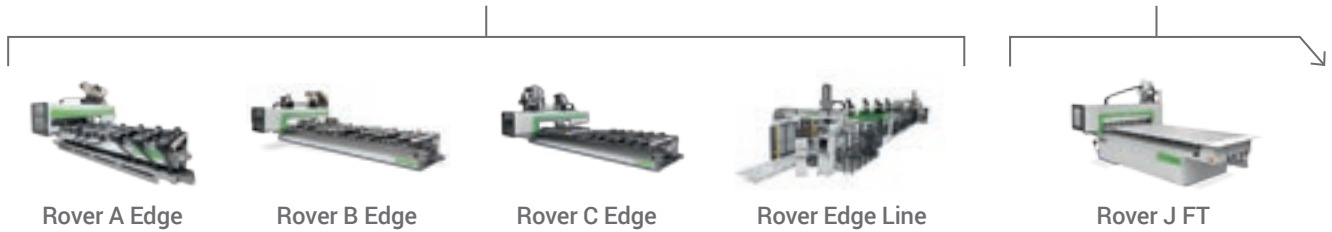


## CNC - ROUTING

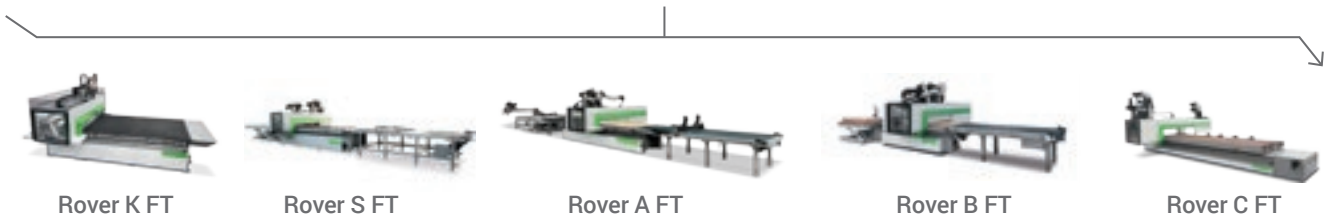


## CNC - EDGEBANDING

## CNC - NESTING



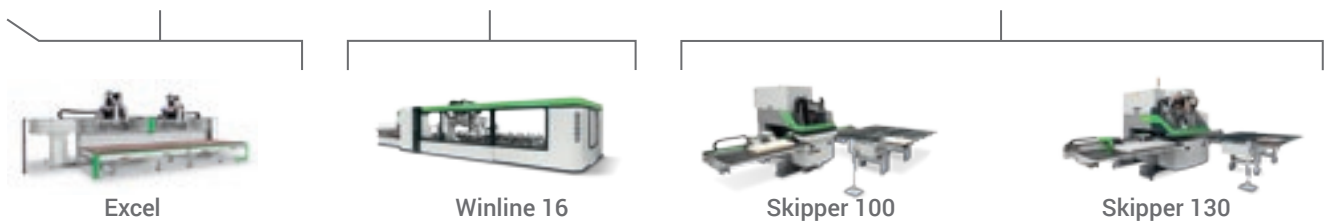
## CNC - NESTING



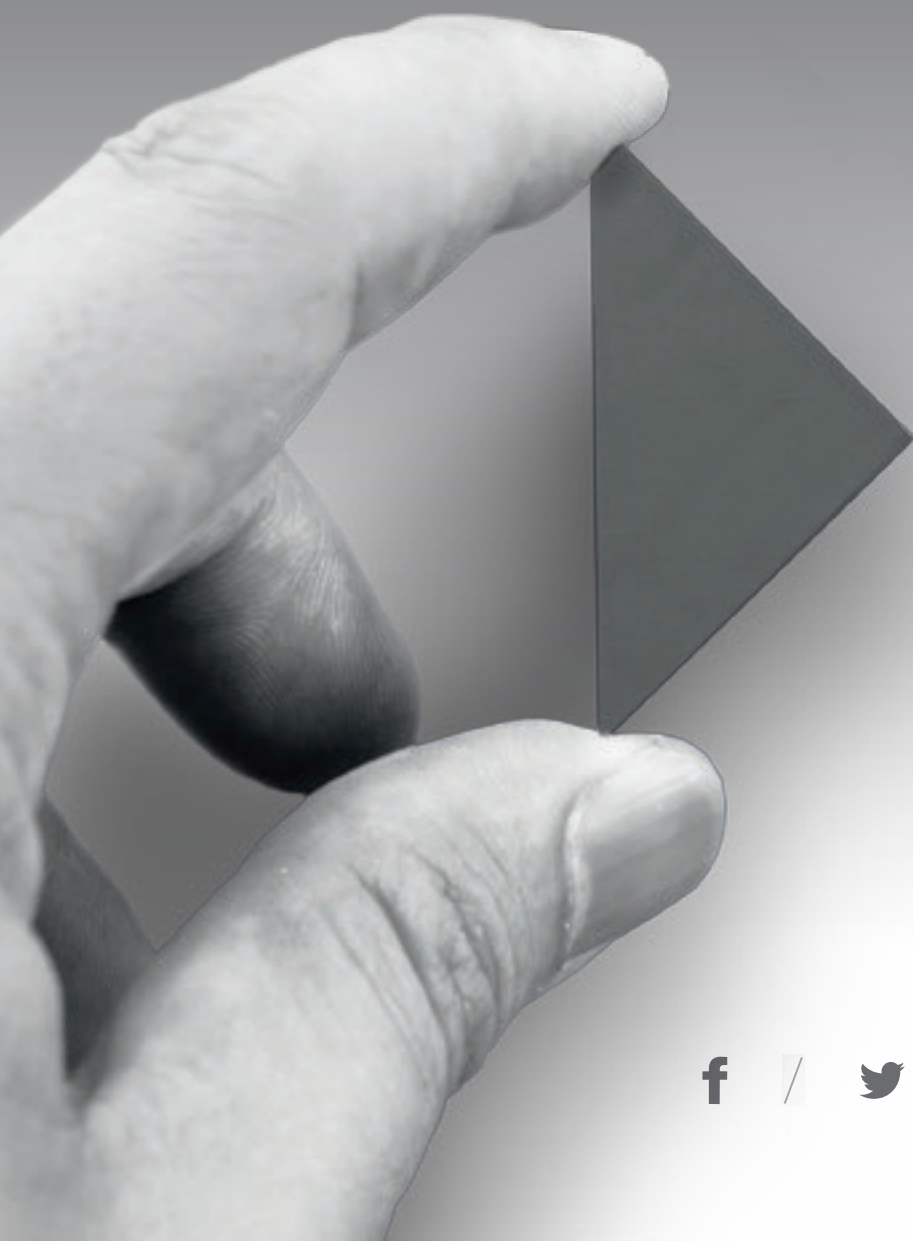
## CNC - NESTING

## CNC - WINDOWS AND DOORS

## CNC - BORING



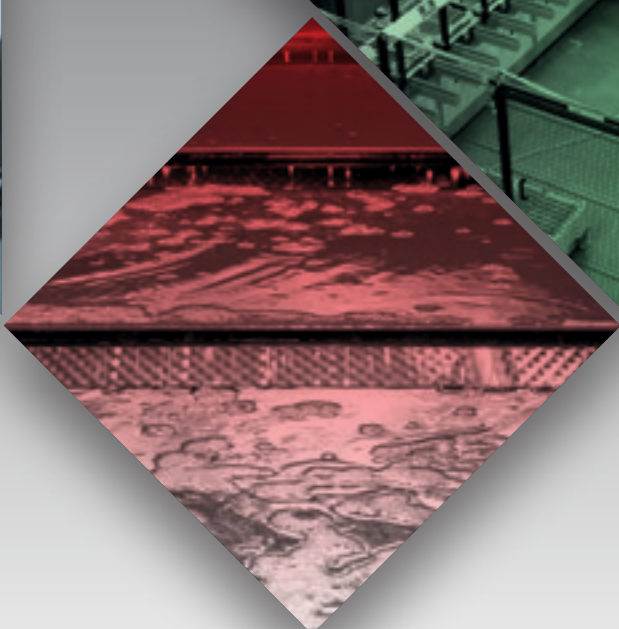
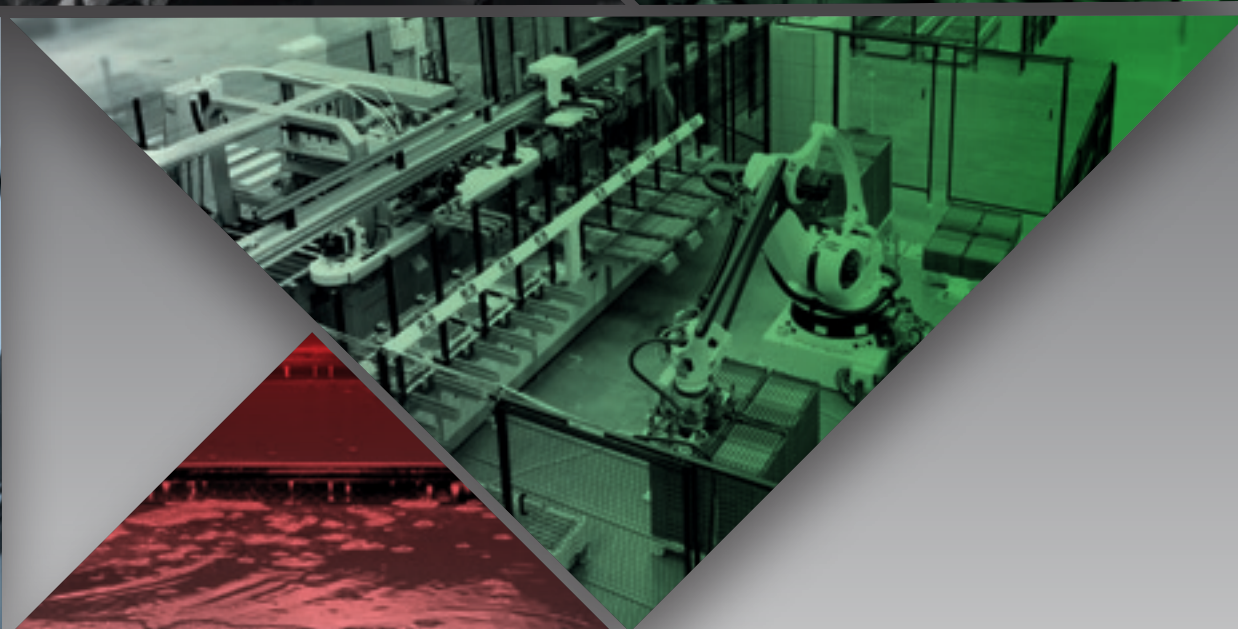
# LIVE THE EXPERIENCE



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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.**

 **BIESSEGROUP**

