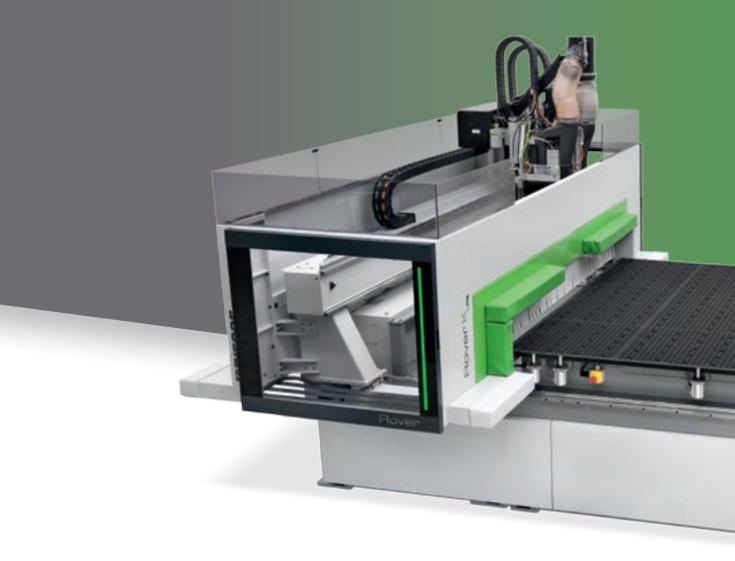


NC PROCESSING CENTRE



EXTREMELY COMPACT AND HIGH-PERFORMANCE



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 whilst offering product customisation with quick and reliable delivery times.

BIESSE RESPONDS

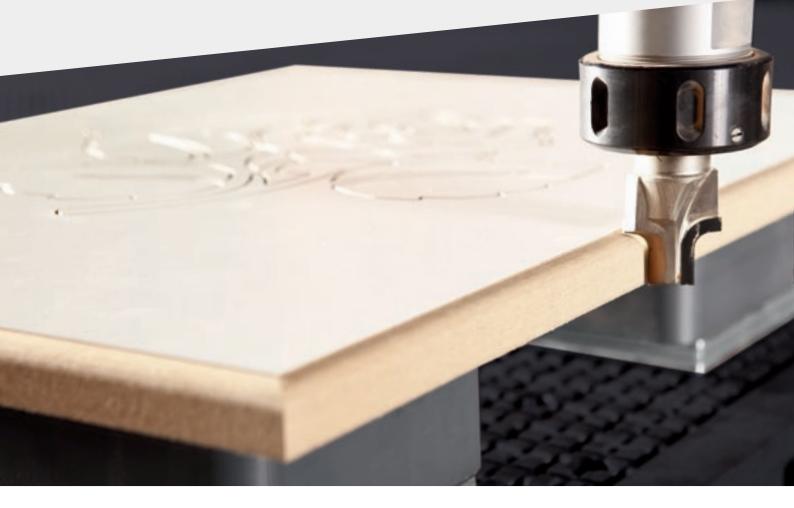
with simple, innovative solutions for nesting operations. **Rover K FT** is the new Biesse numerical control machining centre with Gantry structure - the most compact on the market designed to machine panels made from wood and its derivatives. The ideal solution for artisan producers and for small and medium-sized businesses which require flexibility and ease of use within a limited production space.

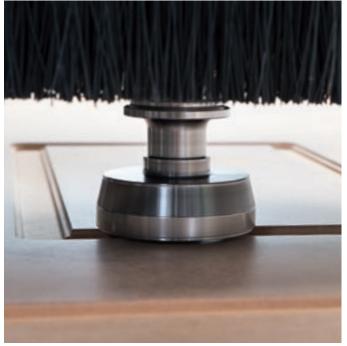


ROVERKFT

- COMPACT AND ERGONOMIC
- **FAST INSTALLATION AND START-UP**
- EASE OF USE
- MAXIMUM "CUSTOM" FLEXIBILITY
- ADVANCED TECHNOLOGY FOR EXCEPTIONAL FINISH QUALITY
- MAXIMUM OPERATOR SAFETY
- **FULLY INTEGRATED INTO PRODUCTION FLOWS**

A SINGLE WORK CENTRE FOR MANY TYPES OF MACHINING OPERATIONS





Rover K FT can carry out various types of machining operation, including: the nesting of small doors and furniture elements, scoring on solid wood, panels and doors.

ROVERKET







COMPACT AND ERGONOMIC

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.

ROVERKET

CAN BE INSTALLED IN JUST ONE DAY

The new Rover K FT is designed to offer maximum performance in an extremely compact solution with the minimum working dimensions. Rover K FT represents the first of Biesse's new quick-installation plug&play solutions.

MAXIMUM CUSTOM FLEXIBILITY

The wide range of sizes available enables panels of all dimensions typical of nesting processes to be machined, enabling customers to choose the machine that best meets their needs.



ADVANCED WORK TABLE TECHNOLOGY TO MACHINE PANELS OF DIFFERENT TYPES AND SIZES WITH THE UTMOST RELIABILITY.



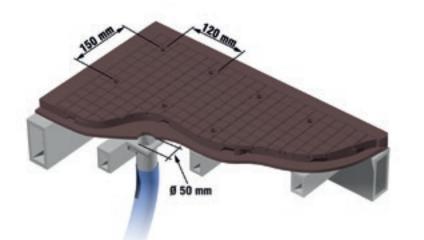
Work table in layered phenolic material with vacuum system.



Vacuum modules can be freely positioned on the FT work table with no need for special connections.

ROVERKFT

MAXIMUM PANEL SECURITY THANKS TO AN ADVANCED DISTRIBUTED VACUUM SYSTEM WITHIN THE WORK TABLE.



Multi-zone technology seamlessly and automatically adapts the vacuum of the machine to the different board sizes that the customer has in his production



 \checkmark

The locking of the vacuum adapts perfectly to the panel size and enables the switching from one format to another without the need for manual operations.



PRACTICAL DESIGN

An innovative yet simple design is the hallmark of Biesse's distinctive identity.

The transparent polycarbonate reinforced protection door is designed to guarantee maximum visibility for the operator. Fitted with 5-colour LEDs indicating machine status, it ensures that processing phases can be easily and safely monitored.

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ADVANCED TECHNOLOGY FOR EXCEPTIONAL FINISH QUALITY

The Rover K FT can be fitted with the same components used on other topof-the-range models. The electrospindle, boring head and aggregates are designed and manufactured for Biesse by HSD, the global leader in this sector.

Up to 17-spindle maximum boring capacity with integrated blade unit.



C AXIS TORQUE: QUICKER, MORE PRECISE, MORE RIGID.

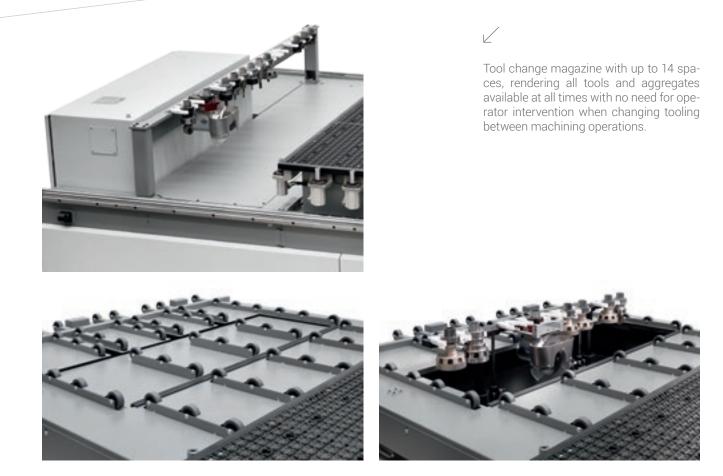


Electrospindles for every application: - 9 kW HSD with automatic tool change ISO30 / HSK F63 1,000- 24,000 rpm.



Reduction of tool change set-up time and the possibility of operator error, thanks to the contact pre-setter, which automatically determines the length of the tool.

LARGE MAGAZINE CAPACITY FOR PERFORMING ALL TYPES OF MACHINING OPERATION



The magazine is integrated into the base, ensuring that tools are always available even when using automatic loading solutions whilst keeping overall dimensions to a minimum.

A COMPLETE RANGE OF AGGREGATES



HIGH RELIABILITY AND PRECISION OVER TIME

Rover K FT has a robust and well-balanced structure, designed to handle demanding machining requirements without compromising product quality.

The Gantry structure with dual motors is designed to increase precision and reliability standards for the execution of all nesting operations.



Automatic lubrication is an option that ensures the continuous lubrication of the machine's main moving parts without the need for operator intervention.

ROVERKFT

OPTIMAL CLEANING OF MACHINED COMPONENTS AND WORK AREA

Various optional solutions are available for cleaning the panel and the area around the machine, thus saving time for the operator.









Adjustable suction hood with 6 settings.

 \swarrow

The **sweeper arm** with integrated suction supports the simultaneous cleaning and unloading of panels, avoiding manual intervention and thus increasing productivity.

 \swarrow

Chip removal system positioned between the machine and the unloading belt, guaranteeing optimal panel cleanliness.

LOADING AND UNLOADING SOLUTIONS

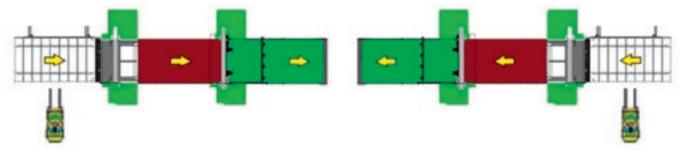


ROVERKFT

12

FULLY INTEGRATED INTO PRODUCTION FLOWS

Rover K FT can be easily adapted according to work flow and in line with customer requirements.



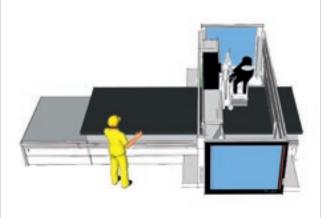
Automatic simultaneous loading/unloading solutions enable significant increases in productivity.

Panel identification and traceability with in the production flow thanks to on-demand labelling system.

INCREASING MANUFACTURING CAPACITY



The machine can be configured with tandem loading in order to alternately process panels on opposite origins. This allows loading and unloading to be carried out while the machine is actually running.



PRODUCTIVE ECONOMY

Productivity and efficiency are increased, while maintaining high quality standards and fast delivery times.

Biesse's processing centres for nesting and carving operations allow to achieve a finished produced machined on a single, compact machine at a competitive price. The robust and well-balanced structure of the machine is ideally suited for withstanding greater processing stresses without compromising the quality of the piece and for ensuring the best finish on different types of materials.



MAXIMUM ERGONOMICS AND SAFETY FOR THE OPERATOR

Biesse machines are designed to enable operators to work in complete safety.

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.





The new full bumper solution enables the operator to safely access the work table at all times from any side of the machine.



Overlapping lateral curtain guards protect the working unit.

TECHNOLOGY AT THE SERVICE OF THE USER







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



MAXIMUM VISIBILITY OF THE WORKING UNIT FROM ANY POSITION

LED bar with 5 colours, 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.



^r 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.



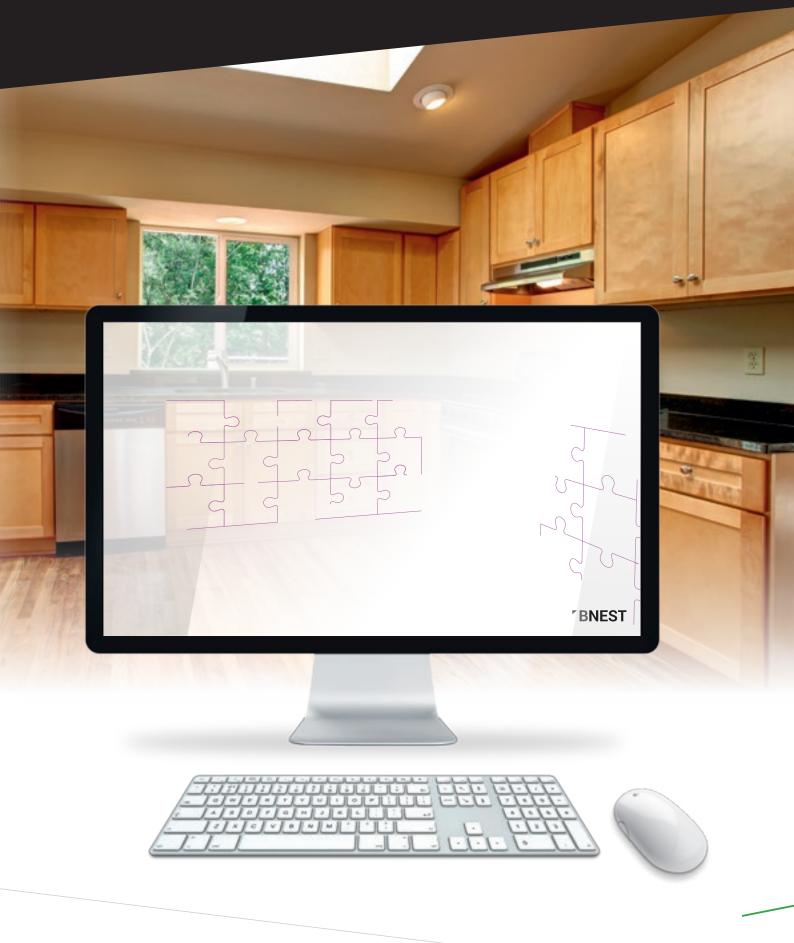


REDUCED TIME AND WASTE

BNEST IS THE BSUITE PLUGIN SPECIFICALLY FOR NESTING OPERATIONS. IT ALLOWS YOU TO ORGANISE YOUR NESTING PROJECTS IN A SIMPLE WAY, REDUCING THE MATERIAL WASTE AND MACHINING TIMES.

- Reduced production costs.
- Simplified work for the operator.
- Integration with company software.





IDEAS TAKE FORM AND SHAPE

BCABINET IS THE BSUITE PLUGIN FOR FURNITURE DESIGN. IT ALLOWS USERS TO DEVELOP DESIGNS FOR A GIVEN SPACE, AND TO QUICKLY IDENTIFY THE INDIVIDUAL ELEMENTS THAT MAKE IT UP.

- With the new plugin, it is easy to draw both individual items of furniture and complete furnishings for a range of spaces.
- Offering optimal integration with bSuite, users can move from design to manufacturing in just a few clicks.
- Total control and maximum optimisation of the furniture design and creation process, to achieve the highest levels of efficiency.





S P P H I A 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 **I** 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.

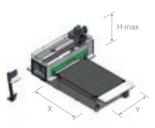




in collaboration with

TECHNICAL DATA

WORKING FIELD AND HEIGHT Z



	Х	Y	Z	
	mm / inch			
			without / with SWEEPER ARM	
ROVER K FT 1224	2465 / 97	1260 / 50		
ROVER K FT 1236	3765 / 148	1260 / 50		
ROVER K FT 1531	3100 / 122	1560 / 61		
ROVER K FT 1536	3765 / 148	1560 / 61	170 / 7	
ROVER K FT 1836	3765 / 148	1875 / 74		
ROVER K FT 2231	3100 / 122	2205 / 87		
ROVER K FT 2243	4300 / 169	2205 / 87		

SPEED

	Х	Y	Z	
m/min	25	25	25	low
foot/min	82	82	82	speed
m/min	60	60	25	hiah
foot/min	196,9	196,9	82	high speed

VECTOR SPEED

m/min	35	low
foot/min	116	speed
m/min	85	high
foot/min	278,4	high speed



STAND-ALONE MACHINE - LOW SPEED

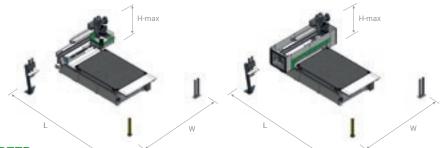
	L	W	Н	H-max		
	mm / inch					
	NCE - CE	NCE - CE				
ROVER K FT 1224	5911 / 233	3587 / 141		2508 / 99		
ROVER K FT 1236	7211 / 284	3587 / 141				
ROVER K FT 1531	6546 / 258	3887 / 153				
ROVER K FT 1536	7211 /284	3887 / 153	985 / 39			
ROVER K FT 1836	7211 / 284	4207 / 166				
ROVER K FT 2231	6546 / 258	4517 / 178				
ROVER K FT 2243	7746 / 305	4517 / 178				

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) during machining at the operator's workstation on the vane-pump machine Lpa=79dB(A) Lwa=96dB(A) Weighted sound-pressure level A (LpA) at the operator's workstation and sound power level (LwA) during machining on the cam-pump machine Lwa=83dB(A) Lwa=100dB(A) Measurement uncertainty K 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.

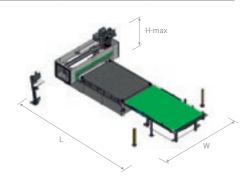




STAND-ALONE MACHINE - HIGH SPEED

WORKING DIMENSIONS

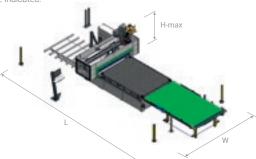
	L	-	١	W	Н	H-max	
		mm / inch					
	NCE	CE	NCE	CE			
ROVER K FT 1224	6129 / 241	6263 / 247	3751 / 148	4153 / 164	966 / 38	2508 / 99	
ROVER K FT 1236	7429 / 292	7563 / 298	3751 / 148	4153 / 164			
ROVER K FT 1531	6764 / 266	6898 / 272	4051 / 159	4453 / 175			
ROVER K FT 1536	7429 / 292	7563 / 298	4051 / 159	4453 / 175			
ROVER K FT 1836	7429 / 292	7563 / 298	4371 / 172	4773 / 188			
ROVER K FT 2231	6764 / 266	6898 / 272	4681 / 184	5083 / 200			
ROVER K FT 2243	7964 / 314	8098 / 319	4681 / 184	5083 / 200			



MACHINE WITH UNLOADING BELT - HIGH SPEED*

	L	L W		Н	H-max	
	mm / inch					
	NCE - CE	NCE	CE			
ROVER K FT 1224	8584 / 338	3751 / 148	4153 / 164	985 / 39	2508 / 99	
ROVER K FT 1236	9884 / 389	3751 / 148	4153 / 164			
ROVER K FT 1531	9219 / 363	4051 / 159	4453 / 175			
ROVER K FT 1536	9884 / 389	4051 / 159	4453 / 175			
ROVER K FT 1836	9884 / 389	4371 / 172	4773 / 188			
ROVER K FT 2231	9219 / 363	4681 / 184	5083 / 200			
ROVER K FT 2243	10419 / 410	4681 / 184	5083 / 200			

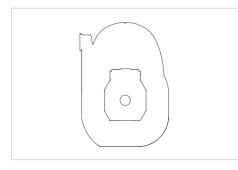
* Where the version is a low speed one (NCE or CE), the whole width W is 560 mm lower than the CE value indicated.



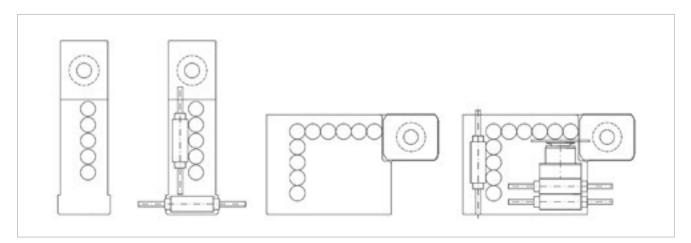
MACHINE IN COMPLETE NESTING CELL - HIGH SPEED

	L	L W		Н	H-max	
	mm / inch					
	NCE - CE	NCE	CE			
ROVER K FT 1224	11863 / 467	4140 / 163	4342 / 171			
ROVER K FT 1236	13163 / 518	4140 / 163	4342 / 171	-		
ROVER K FT 1531	12498 / 492	4440 / 175	4642 / 183			
ROVER K FT 1536	13163 / 518	4440 / 175	4642 / 183	985 / 39	2508 / 99	
ROVER K FT 1836	13163 / 518	4760 / 187	4962 / 195			
ROVER K FT 2231	12498 / 492	5070 / 200	5272 / 208			
ROVER K FT 2243	13698 / 539	5070 / 200	5272 / 208	_		

CONFIGURATION



Boring heads available with 5 to 17 positions: BH5 - BH9 - BH10 - BH17 L.



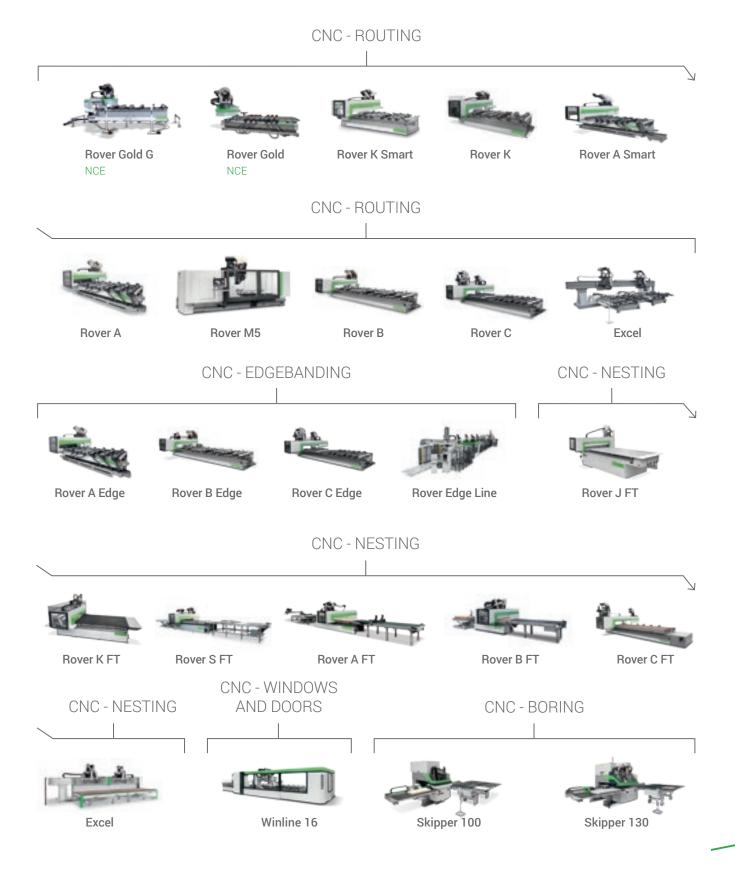
Boring heads available with 5 to 17 positions: BH5 - BH9 - BH10 - BH17 L.

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MACHINING CENTRES RANGE



SERV CE & 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

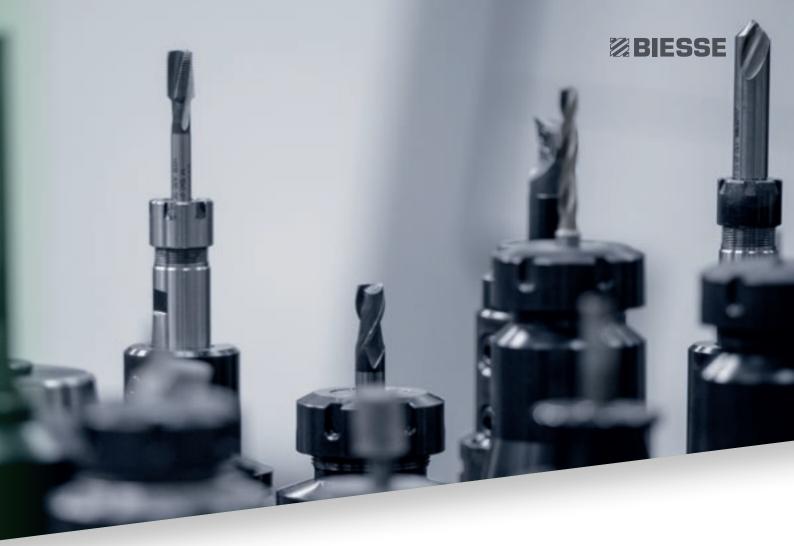
Biesse Field engineers in Italy and worldwide.

50

Biesse engineers manning a Teleservice Centre.

550 certified Dealer engineers.

120 training courses in a variety of languages every year.



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

MATON AND BIESSE MAKE MUSIC TOGETHER.

With more than 1200 models of guitars made for thousands of professional musicians, Maton Guitars confirms its worldwide presence, becoming a truly great Australian success story. "The best guitar is the one that the market demands," states Patrick Evans, Head of Product Development at Maton. The evolution in production techniques and research into the most efficient software continues, prompting Maton to hunt for new solutions that can better respond to emerging needs. In 2008, after considering the pros and cons of a range of manufacturers, Maton chose Biesse. Maton's production needs incorporate technological requirements and artisan skills; the right balance of these two allows them to achieve the highest levels of quality and performance. A great guitar is both a work of art and a fine musical instrument. To obtain these results, the right tools are crucial - both for heavy machining operations and delicate processes, to create 3D shapes and work with minimal tolerances. Biesse has provided Maton with a range of advanced solutions for machining processes, not only adding quality to the products, but also providing the skilled craftsmen with more time to devote to manual finishes, ensuring that every product is uni-

que. In 1995, the company installed their first CNC machine. They now have two nesting centres in tandem. The Rover C is the ideal machine for high-precision nesting operations, but also for creating complex shapes, such as the body of Maton's unique guitars. The machine's newly-designed cabin provides excellent visibility of all working units. Biesse is much more than a manufacturer of machinery for producing kitchens. Their impressive range of machines can process an astounding range of materials and products. "In creative hands," commented Patrick Evans, "Biesse becomes the instrument of a true craftsman. The key is to identify the right machine for the job. We found we can accomplish much more than we thought on a Biesse machine." Maton also uses the two Biesse machines to create new product prototypes; the most complex shapes, and almost every individual part which makes up a Maton guitar. Patrick confirms that Maton uses the Biesse CNC machine at high speeds even on the most complex parts, such as the magnificent fingerboard. "We need enough flexibility to be able to switch from one model to another very quickly, and Biesse allows us to do this very effectively." Biesse gives users the creative freedom to produce virtually any concept, both quickly and efficiently. "With the Biesse's CNC machine," Patrick continues, "you can turn your ideas into reality much faster. Thanks to the flexibility provided by Biesse machines, we can produce two fingerboard prototypes in seven minutes! If we made them by hand, it would take a whole day. Using Biesse machines has allowed us to create eight new guitar models this year alone." Using Biesse machines has allowed Maton to devote more time to the quality of the finish, wasting less time on processing individual pieces. Each Maton guitar is handfinished by a dedicated and qualified team of luthiers. Maton has demonstrated that it is possible to produce a guitar in Australia with a worldwide reputation for quality, using Australian timber and technologies. Maton knows exactly how to design and build a unique, one-ofakind product, a well-made guitar, and with Biesse as valued partner, the best quitars in the world are brought to life.

Taken from an interview with Patrick Evans, head of Product Development at Maton Guitars - Australia

[-]

BIESSEGROUP.COM



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.



/ 🞯 / in

5808A1291 march 2018

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