

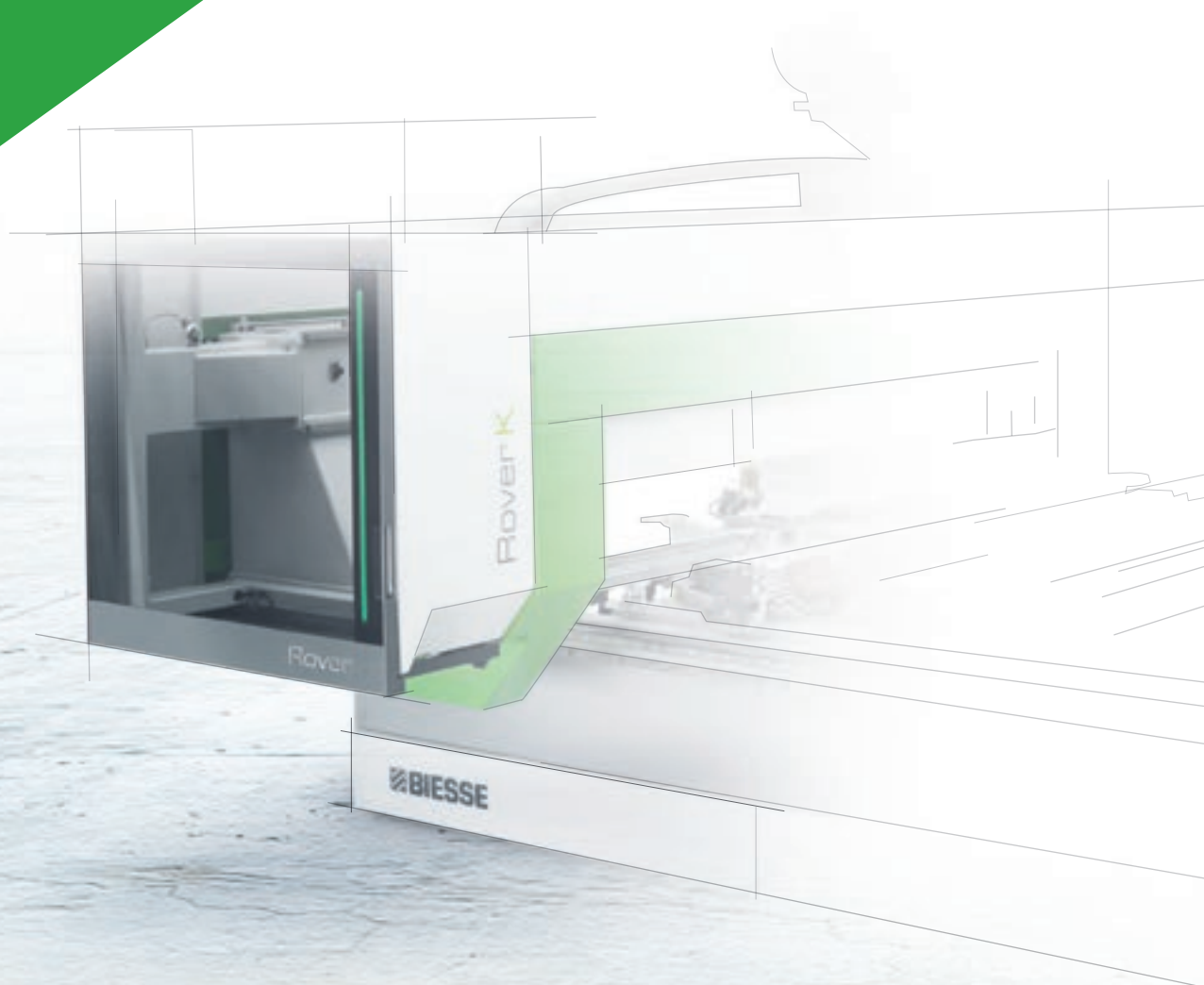
Rover K SMART

NC processing centre



 **BIESSE**

When competitiveness
means minimum
investment with
maximum results



Made **In** Biesse

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 customisation of products with **quick and defined delivery times**, as well as responding to the needs of highly creative designers.

Biesse meets these requirements

with **technological solutions** that enhance and support technical expertise as well as process and material knowledge. **Rover K Smart** is a numerical control machining centre for artisan and small to medium sized businesses looking for simple solutions at affordable prices.

- ▶ **For machining panels and solid wood pieces with a single, innovative machine.**
- ▶ **Easy tooling and optimal panel hold.**
- ▶ **Panel and work area cleaning.**
- ▶ **Maximum operator safety.**
- ▶ **Cutting-edge technology is rendered accessible and intuitive.**

Powerful
and compact



Rover K SMART
NC processing centre



For machining panels and solid wood pieces with a single, innovative machine



The Rover K Smart is equipped with 3 or 4 independent interpolating axes, and can be fitted with aggregates capable of handling any type of machining operation, both on panels and on solid wood workpieces.





The **components** of Rover K Smart configurations are the same as those used across Biesse's **high-end** solutions. The electrospindle, boring head and aggregates are designed and manufactured for Biesse by **HSD**, the global leader in this sector.



C Axis Torque:
quicker, more precise, more rigid.

Easy tooling and optimal panel hold

The Biesse work table guarantees optimum hold on the workpiece as well as quick tooling.



The innovative **ATS work table** boasts a universal design for superb flexibility and easy configuration.



The quick-coupling system ensures fast and easy replacement of the vacuum modules and the Uniclamps, used to lock narrow and particularly thick pieces in position.



Uniclamp clamps with pneumatic system.



Rover K SMART



Different references for the machining of multiple components.



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



Thanks to the **16 position tool-holder rack**, tools and aggregates are always available, without the need for operator intervention when moving from one machining process to the next.

Technology to not miss out on

The Smart range for Rover has been created to meet the needs of customers looking for high performance with a limited investment. With high-level, quality components and prismatic linear guides, the work surfaces on these machines can be configured with a variety of working units and are the ideal fit for manufacturers requiring a Y 1500 mm working field and powerful 13 kW electrospindle. These features make Rover Smart machines some of the most compelling and unique solutions in their category, guaranteeing reliability and safety, with CE compliance as standard. Rover K Smart is a competitive solution for machining large panels.

ROVER

The background of the page is a close-up photograph of a machine's control panel. A prominent feature is a green rectangular label with the text "er K Smart" in white, sans-serif font. The label is slightly tilted. The machine's surface is dark grey or black with a fine, pebbled texture. A thin white diagonal line runs across the lower half of the image. In the bottom right corner, there is a short green diagonal line.

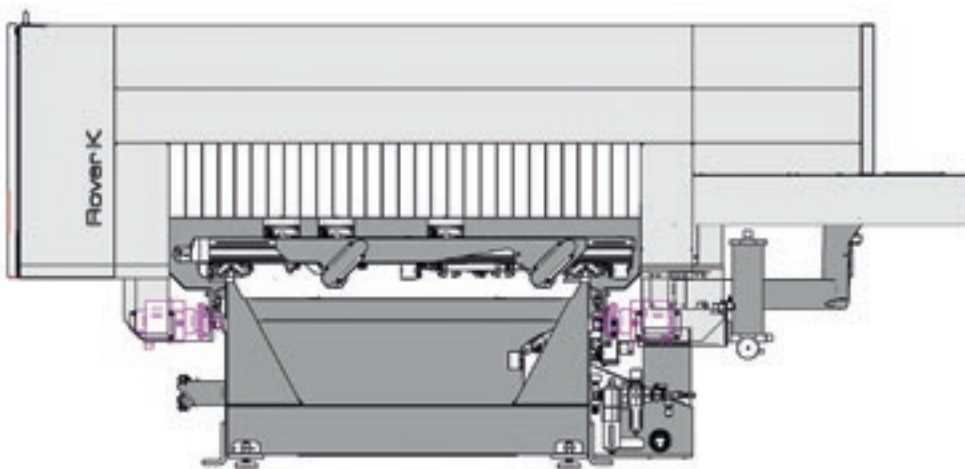
SMART LINE

High-level technical solutions offering superb results with maximum ease and user safety. A perfect combination of Biesse technology and Italian genius.

Long term quality and reliability

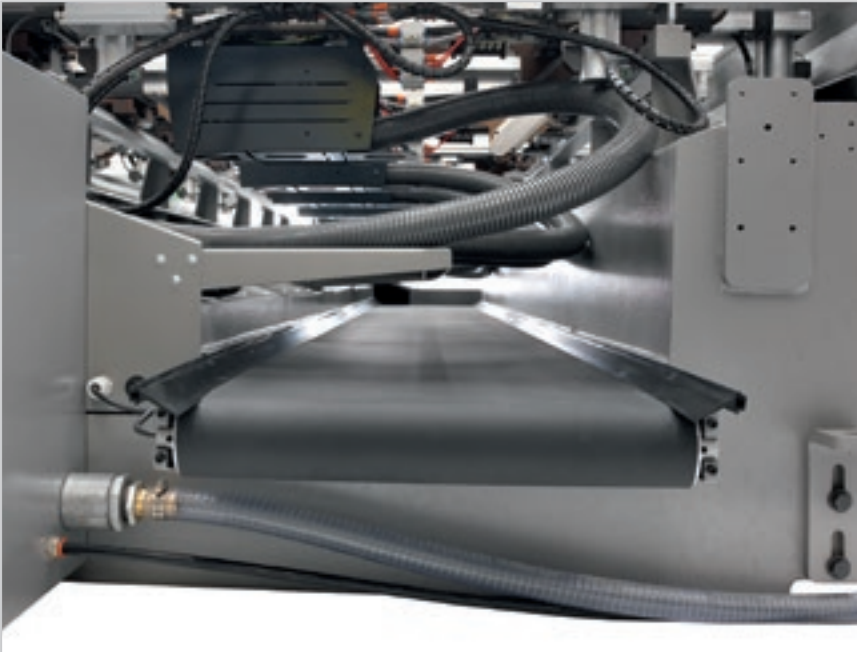


The double X-axis motorisation supports high speeds and accelerations whilst ensuring high quality finish and precision.



The Gantry structure has been designed to improve the precision and reliability of machining operations. Rigidity and lack of vibration ensures consistent and reliable quality of machined panels.

Optimal panel and work area cleaning



Motorised conveyor belt for the removal of chips and waste.



Adjustable suction hood with 6 settings.

Maximum operator safety

The fully-enclosed working units with perspex window ensures total safety and maximum visibility.



Pressure-sensitive floor mats for active safety: the machine continues to work consistently at maximum speed, even when the operator is present.



Rover K SMART



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



Remote control panel for direct and immediate operator control.



LED bar with 5 colours, indicating the machine status in real time.

Practical design

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.

BIESSE IDENTITY

An innovative yet simple design is the hallmark of Biesse's distinctive identity. The perfect combination of Italian genius and taste.

ROVER

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.**

Watch the **bSolid** ad at: youtube.com/biessegroup



bSolid



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.**

bCabinet

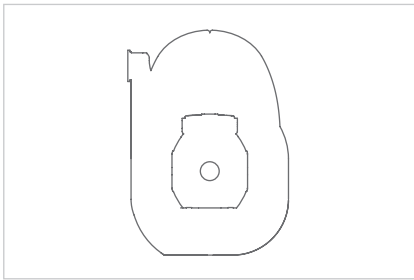


bCabinet

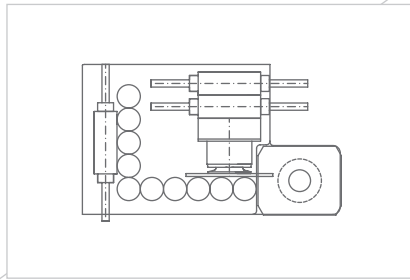
Configuration

Powerful and compact, for superb performance both on panels and on solid wood.

Complete and compact working unit configuration, capable of handling any machining operation with the smallest possible footprint.



13.2 kW electrospindle.



BH17L boring head.

Working fields

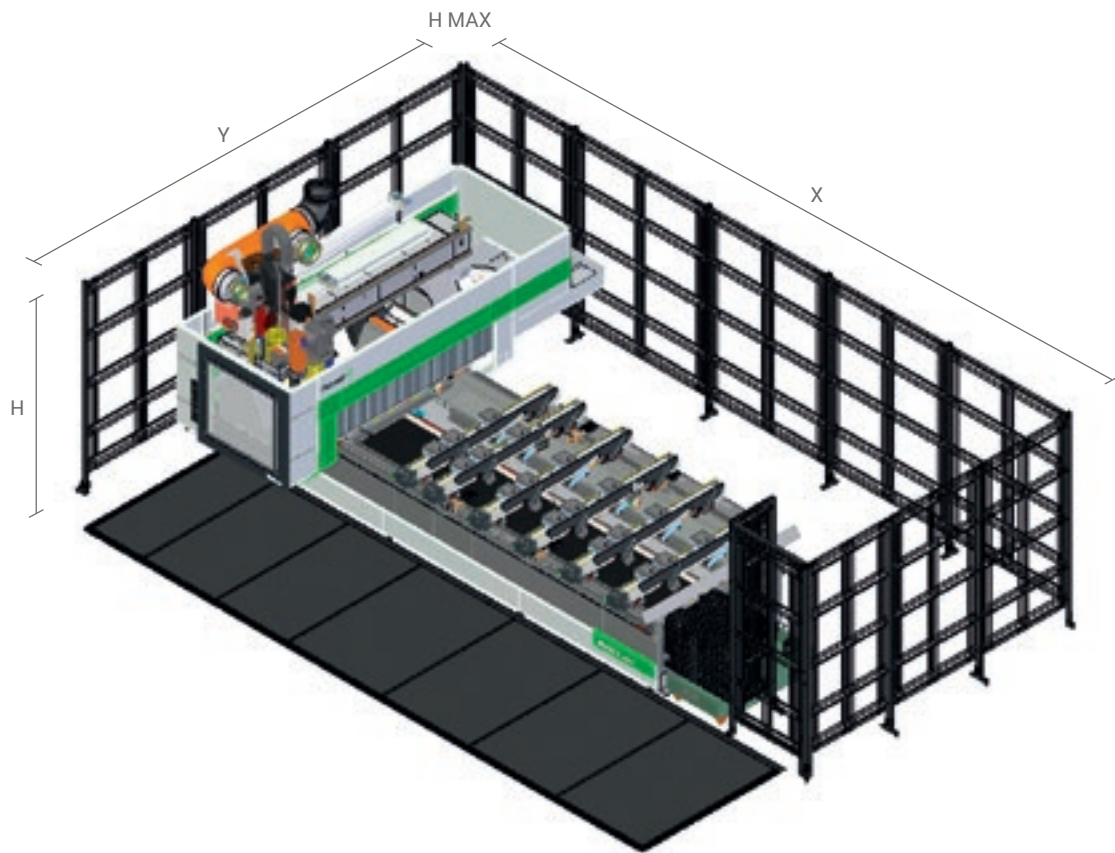
ROVER K SMART 1532	
	mm/inch
X	3260/128,3
Y	1560/61,4
Z	165/6,5

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.

Technical data



Working dimensions

ROVER K SMART	
	mm/inch
	CE mats
X	6745/265,6
Y	4517/177,8
H	2000/78,7
H MAX	2400/94,5
X/Y/Z axis speed	85/60/20 m/min 278,8/196,8/65,6 ft/min
Vector speed	104 m/min 341,2/ft/min

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.


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 specialised 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 customised 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 fulfilment time optimised thanks to a global distribution network with de-localised, automated warehouses.

87%  of downtime machine orders fulfilled within 24 hours.

95%  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 levels 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.*



<http://www.lago.it>



Biesse Group

In

1 industrial group, 4 divisions
and 8 production sites.

How

€ 14 million p/a in R&D and 200 patents registered.

Where

34 branches and 300 agents/selected dealers.

With

customers in 120 countries (manufacturers of furniture,
design items and door/window frames, producers of ele-
ments for the building, nautical and aerospace industries).

We

3,400 employees throughout the world.

Biesse Group is a multinational leader in the
technology for processing wood, glass, stone,
plastic and metal.

Founded in Pesaro in 1969, by Giancarlo Selci,
the company has been listed on the Stock Exchange
(STAR segment) since June 2001.

 **BIESSEGROUP**

 **BIESSE**

 **INTERMAC**

 **DIAMUT**

MECHATRONICS

