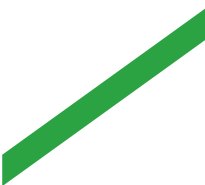


BIESSE ROVER S FT

NC processing centre



When competitiveness
means growth



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 whilst offering product customisation **with quick and reliable delivery times**.

Biesse responds

with **high-tech, innovative solutions** for nesting operations. **Rover S FT** is the gantry machining center designed for Nesting applications of wood and wood based materials, but also plastic based and non ferrous materials machining.

- ✓ **High precision and reliability over time.**
- ✓ **Maximum productivity, minimum footprint.**
- ✓ **High processing flexibility.**
- ✓ **Machine customisation depending on different production requirements.**



Full production at
a competitive price



ROVER S FT
NC processing centre



High precision and reliability over time

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



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

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

Reduced tool change over time



Up to 22 **aggregates and tools** available on the machine. It is possible to switch from one machining operation to the next with no need for operator intervention for tool changes.

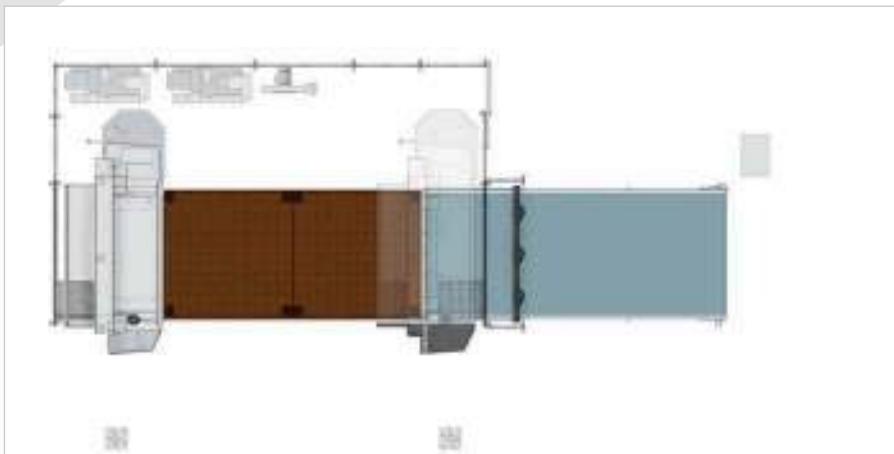


Reduction of tool change set-up time and the possibility of operator error, thanks to the **contact pre-setter**, which automatically determines the length of the tool.

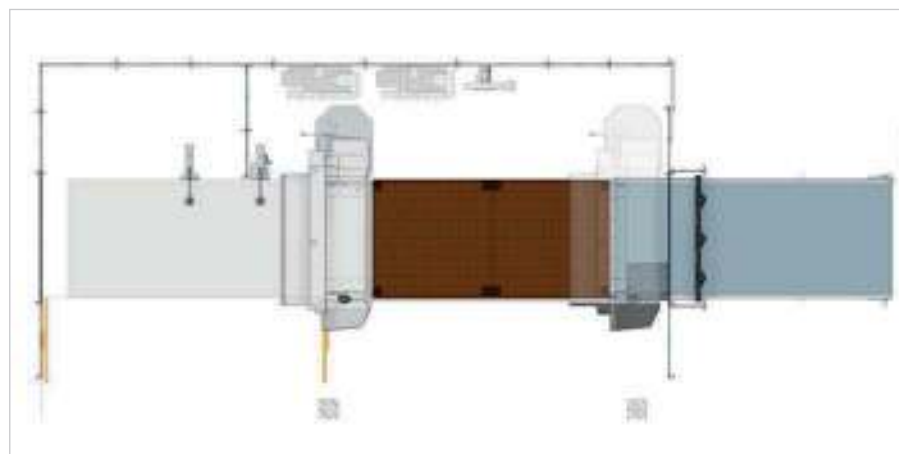
Maximum productivity, minimum footprint

Biesse offers technological solutions for loading and unloading panels that automate and optimise the machining process with a footprint that is reduced by up to 40%.

Loading/unloading is carried out simultaneously allowing the operator to remove completed components from the unloading station with the utmost safety whilst the machine is already processing the next panel.



Panel identification and traceability within the production flow thanks to **automatic or manual labelling**.





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



Moving the panel with **dynamic vacuum suction cup loading system**. A solution that adapts to all surface types.



Panel loading system with **scissor lift and automatic panel alignment**. The system's ease of use ensures long term reliability.



Machine efficiency is dramatically increased due to the **unloading belt**, which enables the removal of completed components outside the machine's work area.



Suction hood on top of the unloading belt

High processing flexibility



The many sizes available enables operators to process all standard panel dimensions required for nesting.

- Rover S FT 1224
- Rover S FT 1536
- Rover S FT 1836
- Rover S FT 2243

Advanced work table technology to machine panels of different types and sizes with the utmost reliability.



Stratified phenolic table with vacuum system.



Aluminium working table with vacuum system.

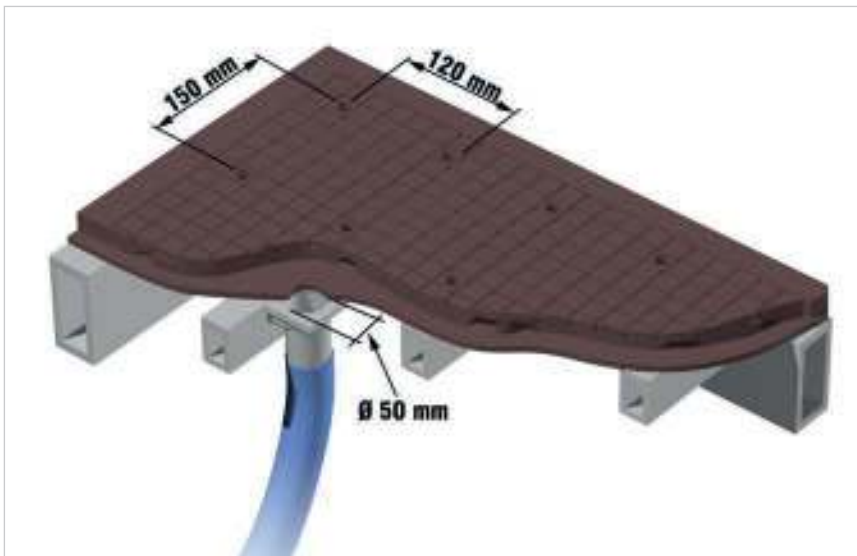


Vacuum modules freely positionable on the FT work table without the need for dedicated connections.

Maximum panel security thanks to an advanced distributed vacuum system within the work table.



Multi-zone technology able to concentrate the vacuum in smaller areas of the work table where required, in order to hold smaller components and reduce vacuum loss.



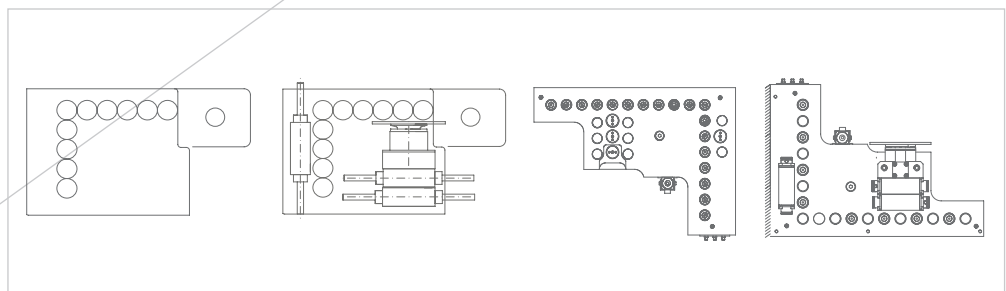
The locking of the vacuum (optimised in a specific work table area) adapts perfectly to the panel size and enables the switching from one format to another without the need for manual operations.

Machine customisation depending on different production requirements

Configurations can be personalised to suit specific production requirements.



Electrospindles up to 13.2 kW.



Boring heads available from 10 to 25 spindles: BH10 - BH17 - BH18 - BH25 L.



Biesse uses the same high-tech components for all machines in the Rover range. Electrospindles and boring heads are designed and manufactured for Biesse by HSD, the global leader in the mechatronics sector.

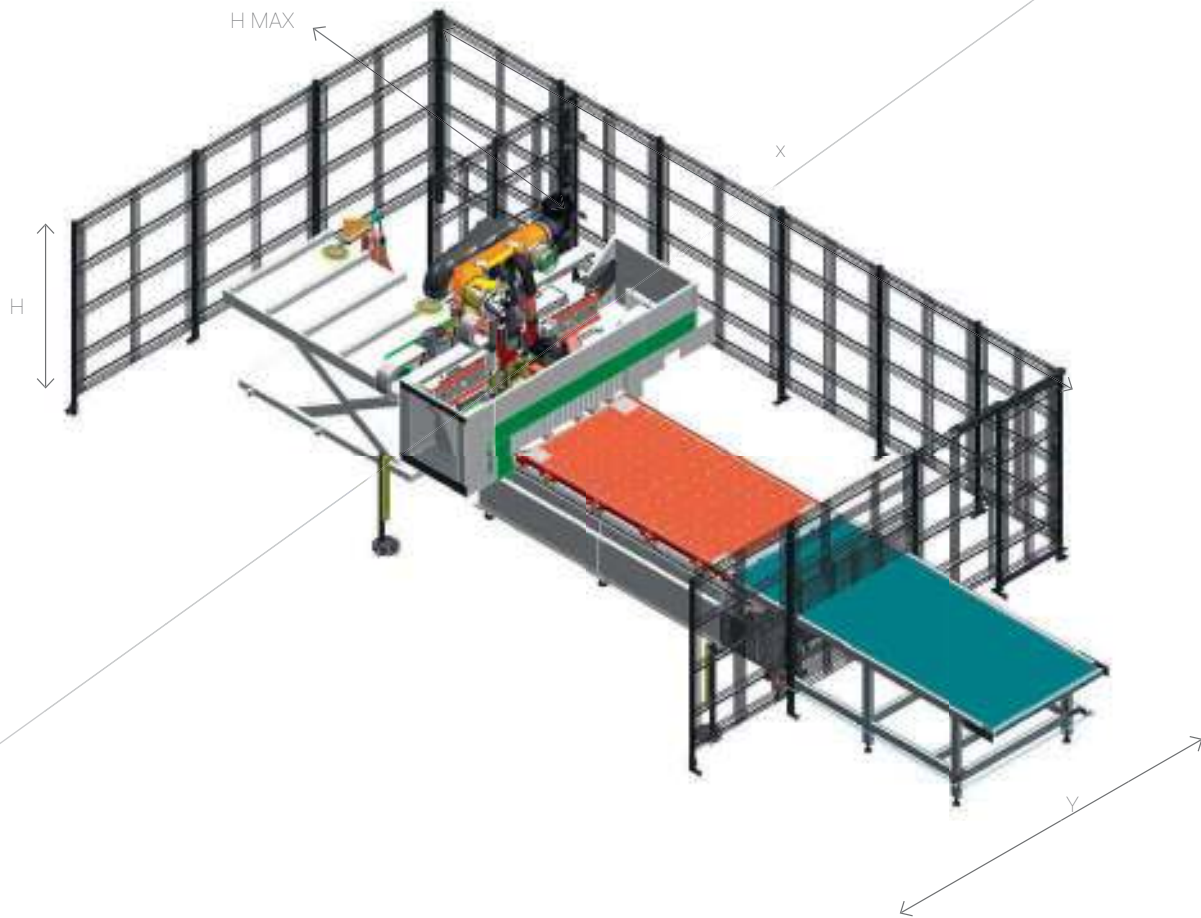


Working unit total protection.
maximum visibility of machining operations.





Technical specifications



Working field aluminium table

	X	Y	Z
	mm / inch	mm / inch	mm / inch
Rover S FT 1224	2511/98.8	1249/49.1	200/7.8
Rover S FT 1536	3811/150	1562/61.4	200/7.8
Rover S FT 1836	3811/150	1875/73.8	200/7.8
Rover S FT 2243	4437/174.6	2188/86.1	200/7.8

Working field phenolic table

	X	Y	Z
	mm / inch	mm / inch	mm / inch
Rover S FT 1224	2463/96.9	1249/49.1	200/7.8
Rover S FT 1536	3763/148.1	1562/61.4	200/7.8
Rover S FT 1836	3763/148.1	1875/73.8	200/7.8
Rover S FT 2243	4437/174.6	2188/86.1	200/7.8

Speed

X/Y/Z axis speed	60/60/25 m/min
Vector speed	84.8 m/min

Foot print

	X CE Machine within cell with left-to-right, belt-operated unloading	X NCE Machine within cell with left-to-right, belt-operated unloading	X NCE Complete type A cell with left-to-right flow	X CE stand alone machine	X NCE stand alone machine
	mm / inch	mm / inch	mm / inch	mm / inch	mm / inch
Rover S FT 1224	-	7474/294	9912/390	-	5222/206
Rover S FT 1536	-	9950/392	13621/536	-	6465/255
Rover S FT 1836	9952/392	9950/392	13621/536	6465/255	6465/255
Rover S FT 2243	12137/478	-	-	7756/305	-

	Y CE stand alone machine	Y NCE stand alone machine	H	H MAX
	mm / inch	mm / inch	mm / inch	mm / inch
Rover S FT 1224	-	4482/176	1979/78	2247/88
Rover S FT 1536	-	4782/188	1979/78	2247/88
Rover S FT 1836	5052/199	5052/199	1979/78	2247/88
Rover S FT 2243	6162/243	-	1979/78	2247/88

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.

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

The Sagrada Familia site bets on Biesse.

The carpentry workshop of the majestic cathedral designed by Antoni Gaudí has purchased a BIESSE processing centre mainly to develop moulds for the production of stone, marble and concrete elements, as well as shuttering modules. Salvador Guardiola, a highly experienced carpenter specialised in ship-building and responsible for recreating one of the two Caravels used by Columbus during his voyage to America, has been in charge of the Sagrada Familia site for 19 years. "We have chosen

BIESSE for the quality of their processing centre and their technical service", states Guardiola. "The machine cannot stop: some days, it works 24 hours over 24 and, therefore, we needed someone who is able to immediately respond to any emergencies". As a matter of fact, BIESSE's technical service for the Sagrada Familia site enables us to be effective, timely and accurate thanks to the on-line service that the company offers to its customers.



Biesse Group

In

1 industrial group, 4 divisions.
and 8 manufacturing sites.

How

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

Where

30 branches and 300 agents/certified dealers.

With

customers in 120 countries, manufacturers of furniture,
design items and door/window frames, producers of
elements for the building, nautical and aerospace industries.

We

2,800 employees worldwide.

Biesse Group is a global 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

