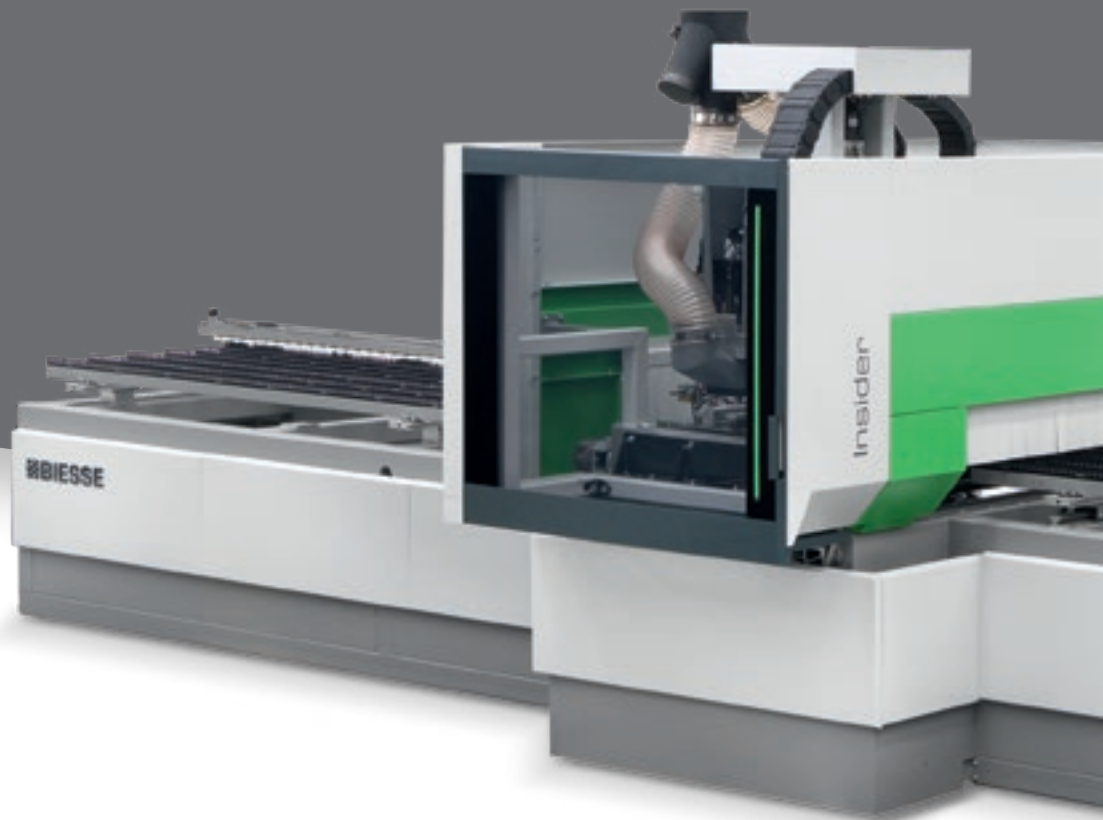


INSIDER DOOR

DILLING MACHINE /
DRILLING-INSERTING MACHINE

LOW INVESTMENT, HIGH PERFORMANCE



THE MARKET EXPECTS

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 defined delivery times, as well as responding to the needs of the most creative designers.

BIESSE MEETS

with **technological solutions** that underline and support technical expertise, as well as process and material knowledge. **Insider Door** is a family of machines designed to carry out boring (Insider Door FB) or boring-insertion (Insider Door KB) operations in a flexible way on doors, fronts and frames. Insider Door is designed to guarantee maximum flexibility, to best respond to contract manufacturing requirements.



INSIDER DOOR

- ✓ TOP QUALITY FOR ANY TYPE OF MACHINING OPERATION
- ✓ MACHINE CUSTOMISATION ACCORDING TO PRODUCTION REQUIREMENTS
- ✓ GROUND-BREAKING TECHNOLOGY, FOR TOP PERFORMANCE
- ✓ FULL PLANT INTEGRATION
- ✓ USER-FRIENDLINESS

TOP QUALITY FOR ANY TYPE OF MACHINING OPERATION

Insider Door supports the automation of boring and boring-insertion operations, guaranteeing an optimal finish quality for machining operations coupled with the precision of a numerical control machine.



Boring from below with hinge chuck.



Boring from above and/or below for handles, knobs, bumpers, etc.



Insertion of hinges and bumpers.



Horizontal boring for anuba hinges.

INSIDER DOOR



MACHINE CUSTOMISATION ACCORDING TO PRODUCTION REQUIREMENTS

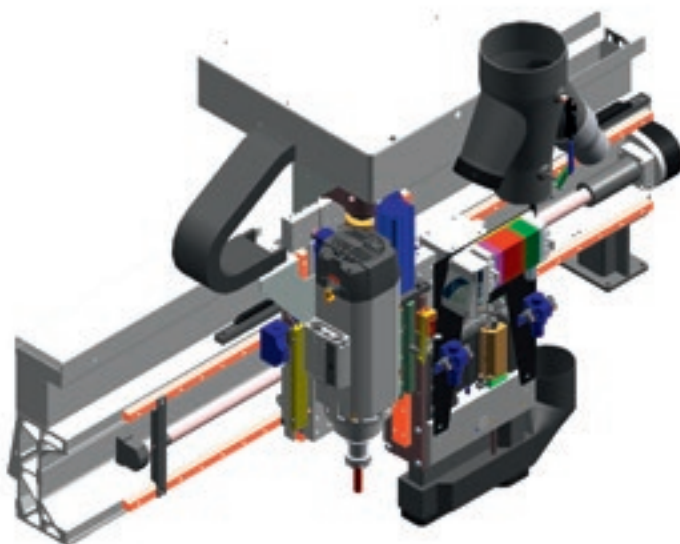
Up to 20 spindles available in the machine.



Vertical LED bar with different colours to understand the machine status at any moment.



Lower boring head with 7 spindles on the Y axis and 3 on the X axis.



Upper beam unit complete with boring head with 7 spindles on the Y axis and 3 on the X axis, and a milling unit of 5.5 kW

GROUND-BREAKING TECHNOLOGY, FOR TOP PERFORMANCE

The technical solutions adopted by Insider Door allow optimal machining performance without the risk of damaging the panel, even when handling delicate materials.



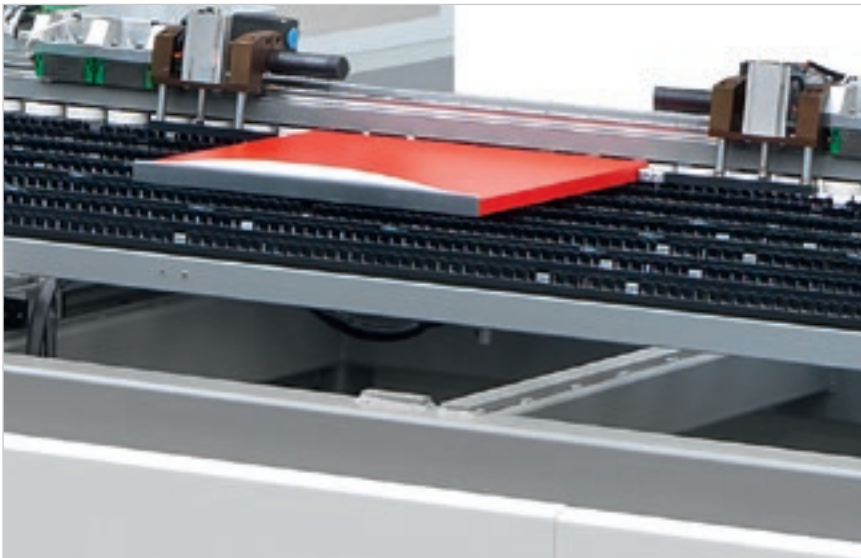
Insertion operations are precise, reliable and constant thanks to the press-fit pick-up system that operates on a fixed beam. Up to 3 different types of hinge can be inserted.



The insertion unit is powered by a vibrating feeder (maximum 2) and a vertical gravity feeder to provide the machine with the greatest possible autonomy and minimise the need for operator intervention.

FULL PLANT INTEGRATION

Biesse offers integrated cells and systems which are capable of maximising customer competitiveness by combining mass production techniques with a high degree of customisation to meet customers' exacting requirements.



The panel handling system with controlled clamps has been specifically designed to prevent any positioning errors and to better handle the machining of delicate panels.

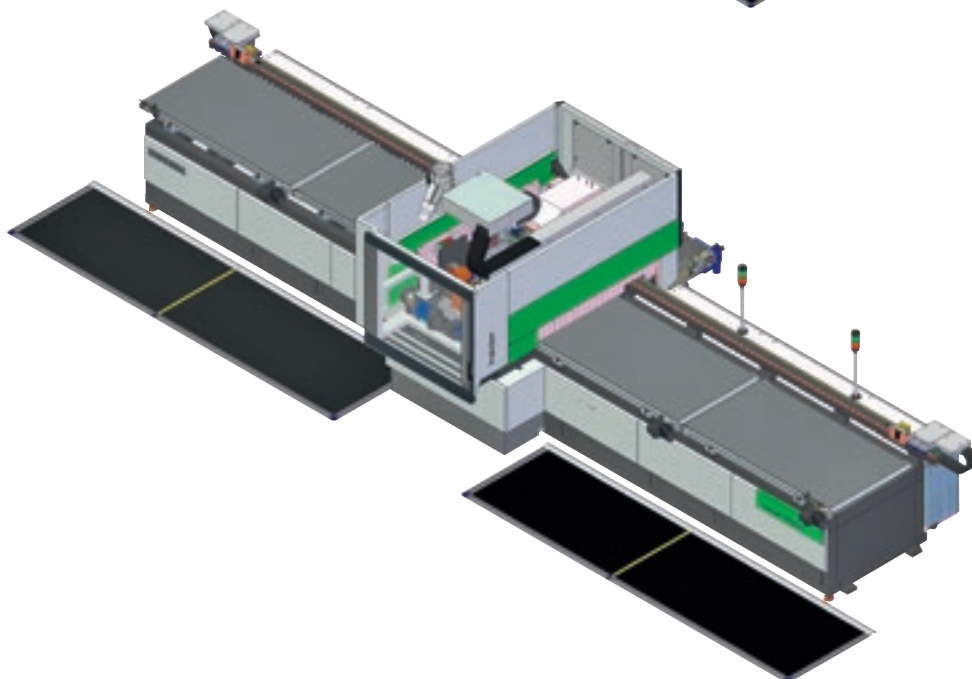
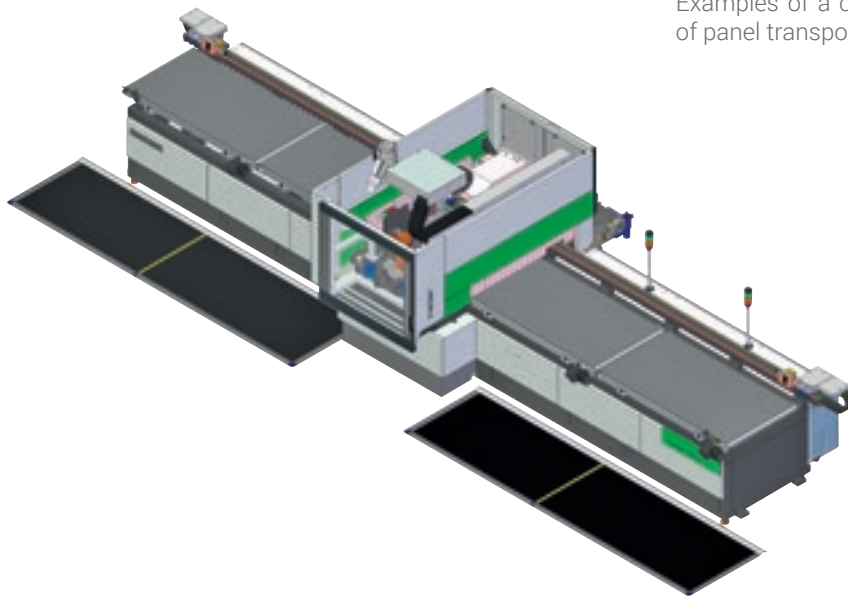


The pressers secure the panel during machining without scratching it and without compromising machine productivity.

Insider Door can be used as a stand-alone machine or within a cell with automatic panel handling, to increase productivity. In both cases, the machine is managed by a single operator.



Examples of a cell with different types of panel transport systems



PRODUCTION LINES

COMPETITIVE PERSONALIZATION

Made-to-measure turnkey factories, plus the integration of Biesse solutions with complementary software and machinery with over 1000 systems installed worldwide.

Biesse Systems is a team of highly trained engineers for large scale production processes. It offers integrated cells and systems capable of maximising customers' competitiveness by combining mass production requirements with the high degree of product personalisation requested by the end customers.





USER-FRIENDLINESS



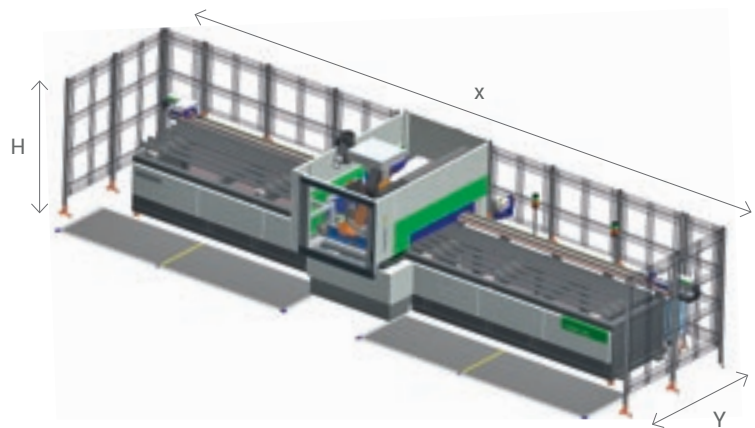
The user interface PC with Windows operating system is perfectly integrated with management software packages and network systems available on the market.

Many functions such as assisted graphic editor, parametric programming, machining head graphic tooling, the import of files in DXF and CID format - and many others - enable the machine to be used in an easy, intuitive way.



The ergonomic design of the machine focuses on the operator, guaranteeing the highest level of safety.

TECHNICAL SPECIFICATIONS



WORKING DIMENTIONS

		Insider KB	Insider FB
X	mm/inch	7875/310	7875/310
Y	mm/inch	3900/153.5	3180/125
Z	mm/inch	2000/78.7	2000/78.7
Work table height	mm/inch	900/35.4	900/35.4

Spindle rotation speed	rpm	6000
X/Y/Z axis speed	ft/min	442.9/328/82
Electrospindle rotation speed	rpm	24000

Actual working field (min-max)		
length	mm/inch	250-2500/9.8-98.4
width	mm/inch	97-800/3.8-31.4 (240-800/9.4-31.4 with hinges inserted)
height	mm/inch	13-30/0.5-1.1

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



Weighted surface noise level A (Lp_{fA}) dB(A) 77.
Uncertainty of measurement K = 4 dB (A).The measurement was carried out in compliance with UNI EN ISO 3746, UNI EN ISO 11202, UNI EN 848-3 and subsequent modifications.

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.

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THE WORLD, READY TO HELP
CUSTOMERS

90%

OF MACHINE DOWN CASES
WITH RESPONSE TIMES
UNDER 1 HOUR

+100

EXPERTS IN DIRECT
CONTACT THROUGH
REMOTE CONNECTIONS
AND TELESERVICE

92%

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FOR MACHINE DOWNTIME
PROCESSED WITHIN 24
HOURS

+50.000

ITEMS IN STOCK IN THE
SPARE PARTS WAREHOUSES

+5.000

PREVENTIVE MAINTENANCE
VISITS

80%

OF SUPPORT REQUESTS
SOLVED ONLINE

96%

OF SPARE PARTS ORDERS
DELIVERED IN FULL ON TIME

88%

OF CASES SOLVED WITH
THE FIRST ON-SITE VISIT

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".

Lago's flexibility offers customers modular elements with which they can build a personal space that reflects their individual character. The "Lago Interior Life" corporate philosophy, as a matter

of fact, is aimed at creating empathy between interiors and the people who live in them, between environmental and inner well-being.

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



FALEGNAMERIA BIFFI, WHEN TECHNOLOGY LENDS A HELPING HAND

Falegnameria Biffi has been located in the heart of the Brianza area surrounded by the Mezzago countryside for over 50 years and has earned itself a name in the industry for the professionalism and reliability it offers its customers.

"During this time, the company has kept pace with the economic and job development in Brianza and has gone from being a predominantly family-run business to a company with a workforce of almost thirty people," its founder Antonio Biffi said. "From wooden skirting and country-style lighting to office furniture, we have continued to expand our range of production processes and have specialised in recent years in manufacturing display units, cabinets and technical furniture for sales outlets, moving into a market that is closely linked to the advertising and commercial industry with its rapid delivery times, low costs and medium-high product quality. The market we operate in consists of a number of players who compete with each other by offering products would look similar in terms of characteristics and final performance, but which are actually quite different in terms of the materials they use, the construction techniques they employ and the price. For our part, we are committed to achieving the proper balance, limiting costs without sacrificing quality" Biffi continued.

Products are developed on the basis of

the customer's projects/designs and we handle every phase of production so that technology plays a vital role in optimum performance.

By using the latest CNC machinery as well as automated and manual painting and owning the vehicles we use to deliver the merchandise, Falegnameria Biffi offers its customers a complete service and is even able to meet requests that a traditional carpentry shop does not usually meet including the machining of methacrylate, the creation of stands and exhibition spaces for trade shows and events, and the completion of semi-finished products.

"We have chosen Biesse as our partner in technology because we firmly believe that the greatest advantage offered by wood machining technology is productivity in terms of work hours and workloads. Biesse technology has helped us to reduce machining times considerably. Add to that the flexibility of the Rover series, which can handle everything from boring a single hole to creating complex shapes, and you get quality as well as quantity", its founder said.

The array of machines owned by Falegnameria Biffi includes a sizeable range of Biesse machines. The last one purchased in 2017 is a Brema Vektor15 but the list starts in the 1990s with the first Rover36, followed by the SelcoWN200 and the Rovers 342 and 321, and end-

ing with the innovative Selco WNAR and EXCEL.

"By using Biesse machinery, we can handle virtually all machining operations used in the woodworking industry, i.e., cutting/sectioning, routing, boring and edgbanding. We also have a cutting-edge sanding and painting department and a large warehouse for storage and logistics which have helped us guarantee a high level of autonomy in production. We only rely on third parties for raw materials and very specific machining operations (powder coating of metal parts, pairing and gluing laminates and films on panels, etc.). However, we continue to value the contribution made by our personnel and their manual skills and experience which are especially important since they give that extra touch to each item and transform a simple semi-finished wood item into a product that is aesthetically pleasing to the eye.

We strongly recommend Biesse to everyone from craftsmen to small/medium-sized enterprises and large companies. What more proof is needed to show how valid the proposed technology is, technology that can be adapted to a wide variety of needs and a wide range of markets which extend beyond the woodworking industry?" Antonio Biffi concluded.

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manufacturing
to make the process
of any material



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