

# Skipper V31

machining centre for real-time panel processing



 **BIESSE**

When competitiveness  
means optimum  
performance and  
flexibility



Made **In** Biesse

## The market requires

a change in production processes to meet the ever-growing demand for personalised products to satisfy customers' specific needs, coupled with quick and certain delivery times. Production volumes are no longer a certainty and producing using statistical analysis is not a valid option. Production diversification is key to success.

## Biesse responds

with technological solutions which can meet the requirements of companies who manufacture to order, with notably reduced costs and cycle times. **Skipper V31** is the compact, versatile boring machine from Biesse which combines flexibility and performance, with a reduced footprint. It represents the perfect **entry-level** flexible boring solution for the non-standard production needs of large companies, for the manufacture of small batches for third parties, and for those requiring just-in-time flexible production.

- ✓ **Maximum "batch 1" machining flexibility.**
- ✓ **Guaranteed precision across all machining operations.**
- ✓ **Quick, easy and accurate panel fixation.**
- ✓ **Rigid structure and reduced working dimensions.**

High productivity  
with rapid return  
on investment



**Skipper V31**  
machining centre for real-time panel processing



# Maximum "batch 1" machining flexibility

**Skipper V31 is the ideal solution for "just-in-time" production: set-up time is equal to zero, as the panel is handled by a fully automatic clamp.**



The clamp is positioned automatically, regardless of the size of the panel. It is fixed in position quickly, thanks to the photocell pre-positioning and resetting system.



The BH17 operating section, configured with 10 independent vertical spindles + 6 horizontal spindles, along with 1 blade unit (diameter 120 mm - spindle optional), completes all of the machining operations on each of the 5 sides of the panel in a single step.

# Guaranteed precision across all machining operations



The "air veil" work tables ensure friction-free handling and adequate support of the panel.



The pressure roller and the vertical pressure device ensure that the panel is firmly held in place.

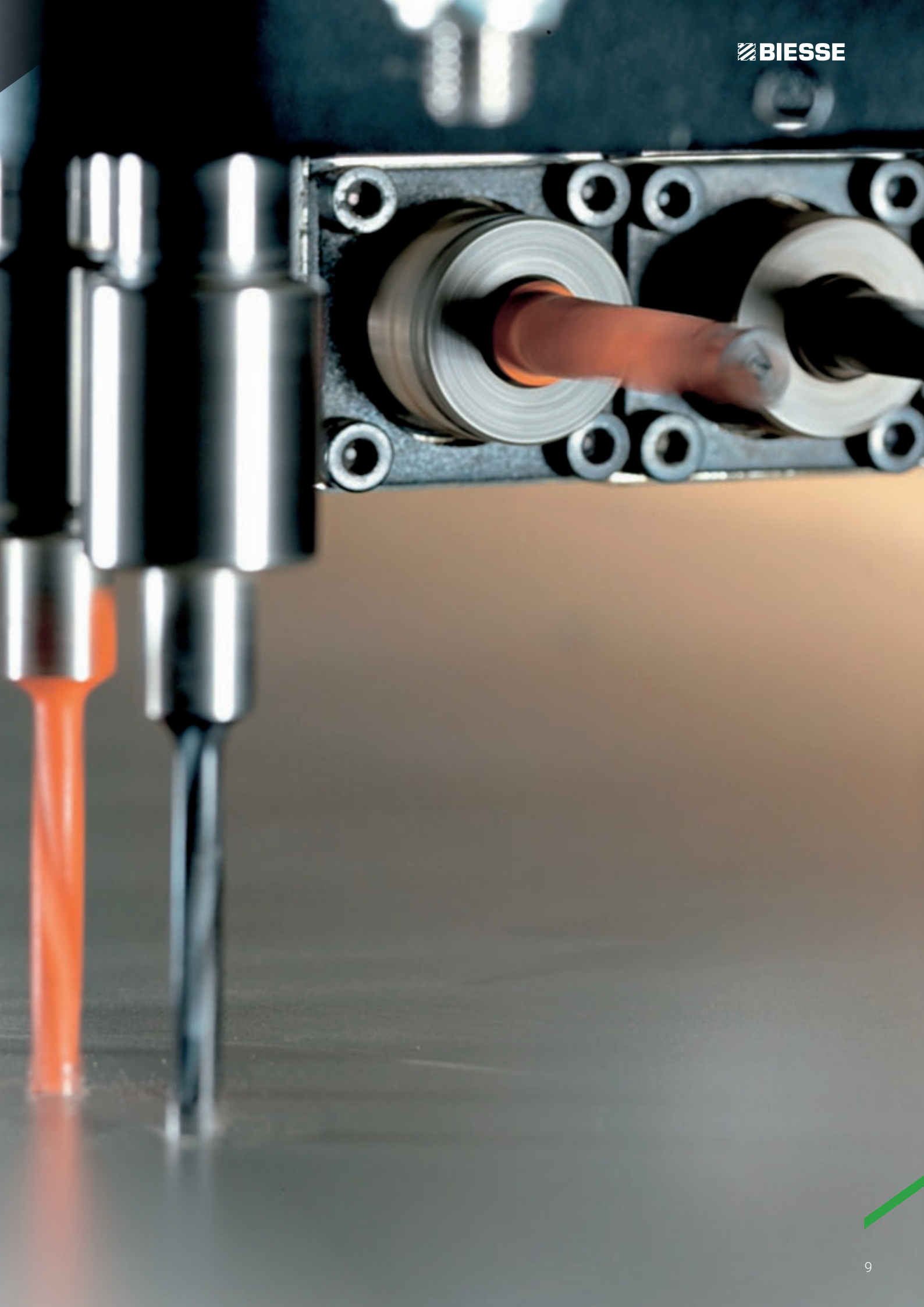


# From 3 to 30 pieces/minute

Boring technologies for all furniture manufacturing needs. From line boring machines capable of producing up to 25-30 pieces per minute to super-flexible stand-alone machines for producing 3-4 pieces per minute with zero set up time. In addition, the company offers solutions that combine productivity and flexibility, for up to 14-15 pieces per minute.

## DRILLING SOLUTIONS

A complete range to satisfy all productivity and flexibility requirements. A perfect combination of Biesse flexibility and Italian genius.



# Quick, easy and accurate panel fixation



Compact and rigid, with vertical panel alignment, for optimised ergonomics in both loading and unloading operations. The vertical reference of the panel relies on high-precision bearings.

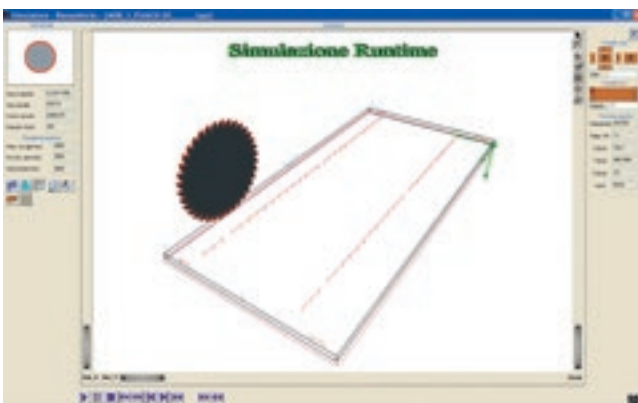
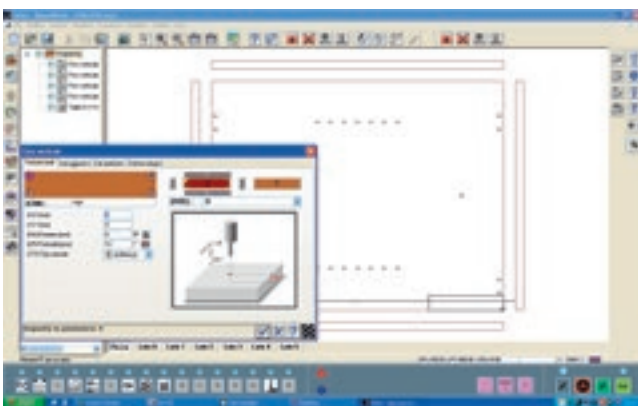


Laser photocell for reading origin and "tail" of the panel: The Skipper V31 compensates for any dimensional errors by correcting the X machining operation positions.





The machine is controlled by a PC, and is equipped with a modern software interface that makes programming incredibly simple and intuitive.



The Bridgeworks graphic window interface uses all the standard Windows operating modes:

- assisted graphic editor for programming the machining operations;
- parametric programming;
- import of files from CAD (DXF and CID3).

# Rigid structure and reduced working dimensions

**Vertical compact machine, for maximum versatility**



The external idle wheel supports can be lowered when machining smaller panels ( $X < 1200$  mm). Loading and unloading of the panel from the left, with possibility to unload from right (optional).



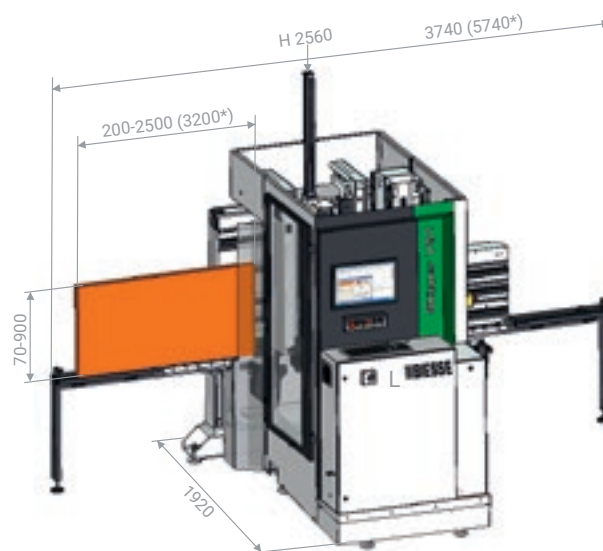
# Guaranteed reliability and precision over time

**High-quality mechanics derived from high-end machines**



Accuracy and repeatability of positioning. Zero play and wear.

# Technical specifications



|                             |       |                                 |
|-----------------------------|-------|---------------------------------|
| Machine size                | mm    | 2430 x 2070 x 2600              |
| Min. size of machined panel | mm    | X 200, Y 70, Z 10               |
| Max. size of machined panel | mm    | X 2500 (3200 opt.), Y 900, Z 70 |
| Vector speed                | m/min | X 25, Y 50, Z 25                |

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.

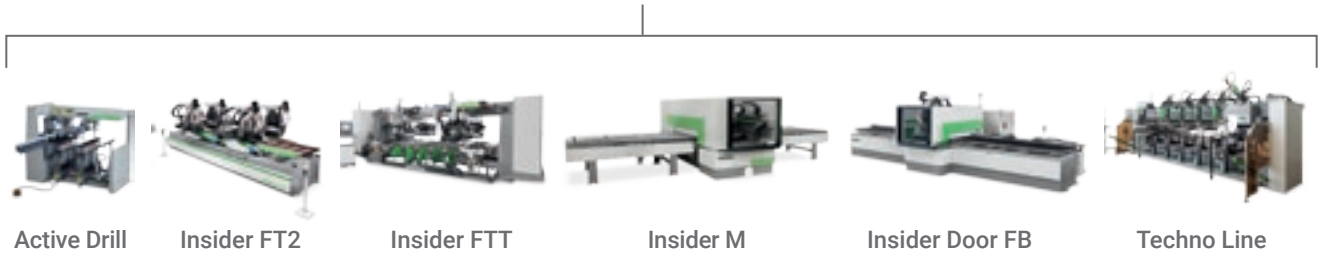
\* with extensions

# Biesse boring range

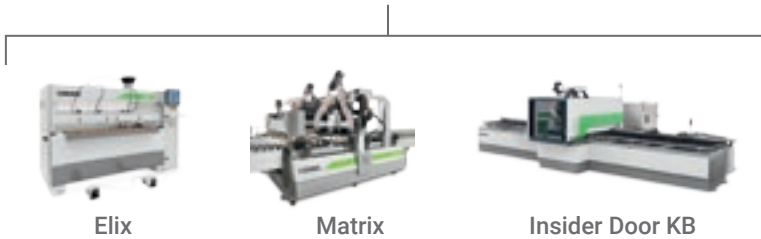
## VERTICAL BORING AND INSERTION



## BORING



## BORING AND INSERTION



# 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

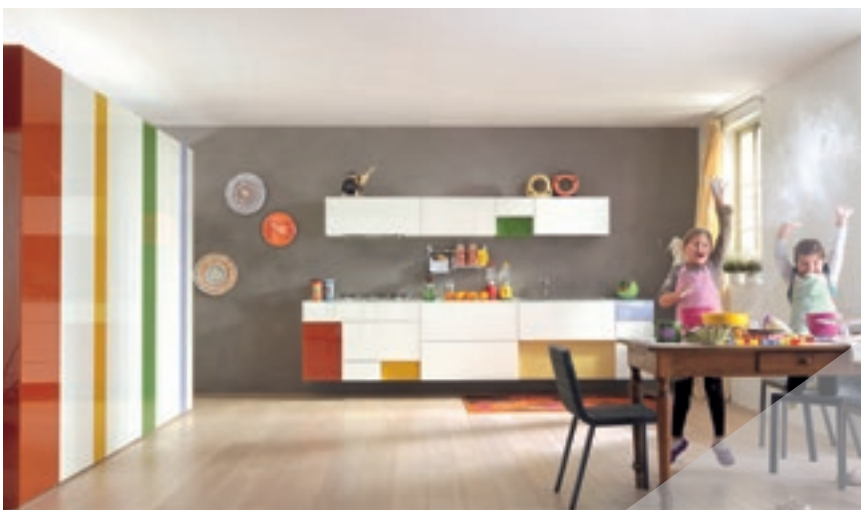
concept of processing only outstanding orders, which enabled us to reduce our footprint and empty the site from the very beginning".

"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".

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.*



<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

3,200 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**