

SKIP PER V31

MACHINING CENTRE
FOR REAL-TIME PANEL PROCESSING



 **BIESSE**

HIGH PRODUCTIVITY WITH RAPID RETURN ON INVESTMENT



THE MARKET EXPECTS

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.



SKIPPER V31

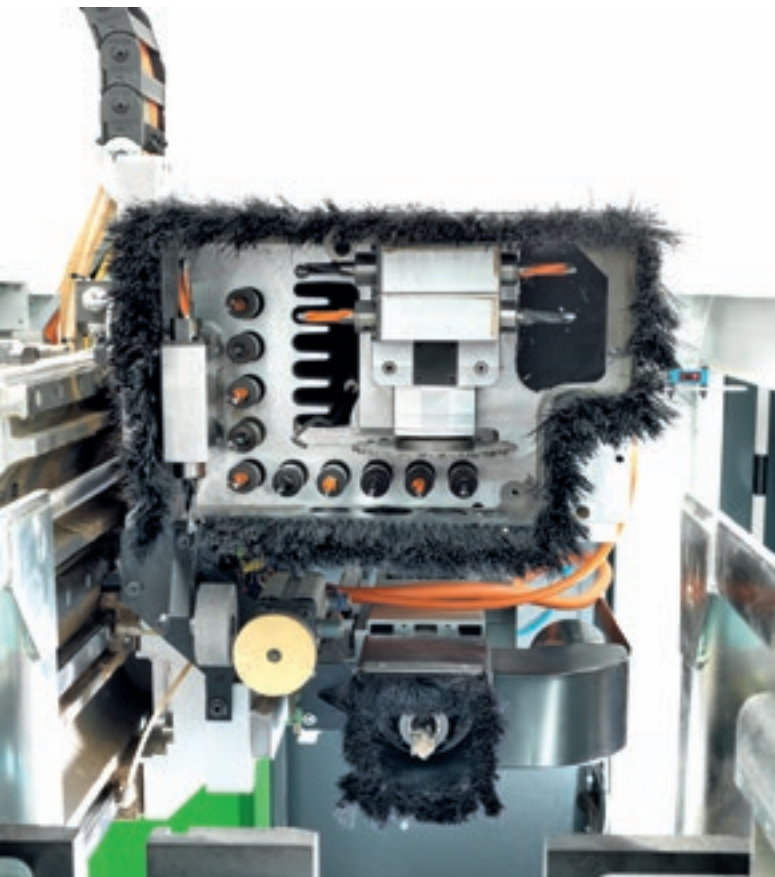
- ✓ MAXIMUM “BATCH 1” MACHINING FLEXIBILITY
- ✓ GUARANTEED PRECISION
ACROSS ALL MACHINING OPERATIONS
- ✓ QUICK, EASY AND ACCURATE PANEL FIXATION
- ✓ RIGID STRUCTURE
AND REDUCED WORKING DIMENSIONS

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.



DRILL ING SOLUTION

FROM 3 TO 30 PIECES/MINUTE

A complete range to satisfy all productivity and flexibility requirements.

Boring technologies for all furniture manufacturing needs. From line boring machines capable of producing up to 25-30 pieces per minute to super-flexible standalone 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.



QUICK, EASY AND ACCURATE PANEL FIXATION



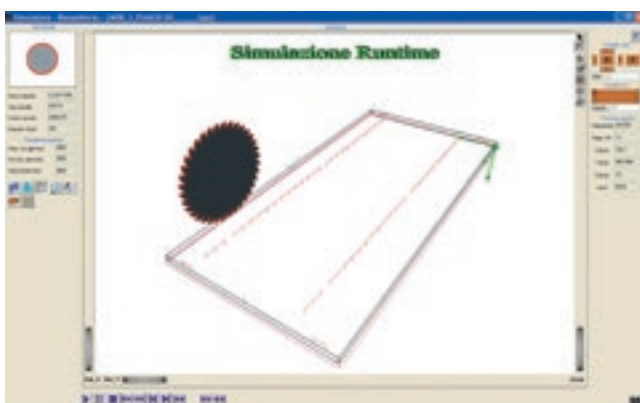
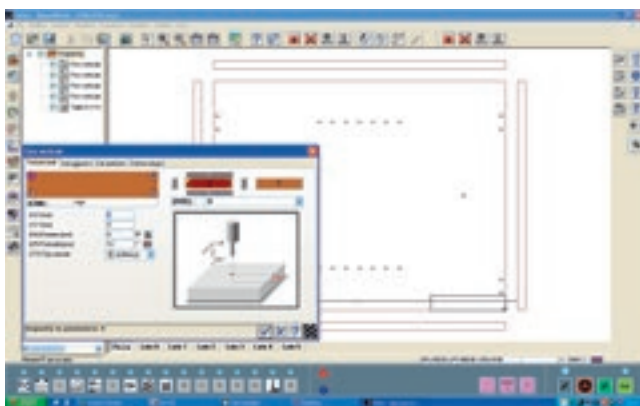
Compact and rigid, with vertical panel alignment, for optimised ergonomics in both loading and unloading operations. The vertical reference of the panel relies on high-precision bearings.



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 Biesseworks 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).



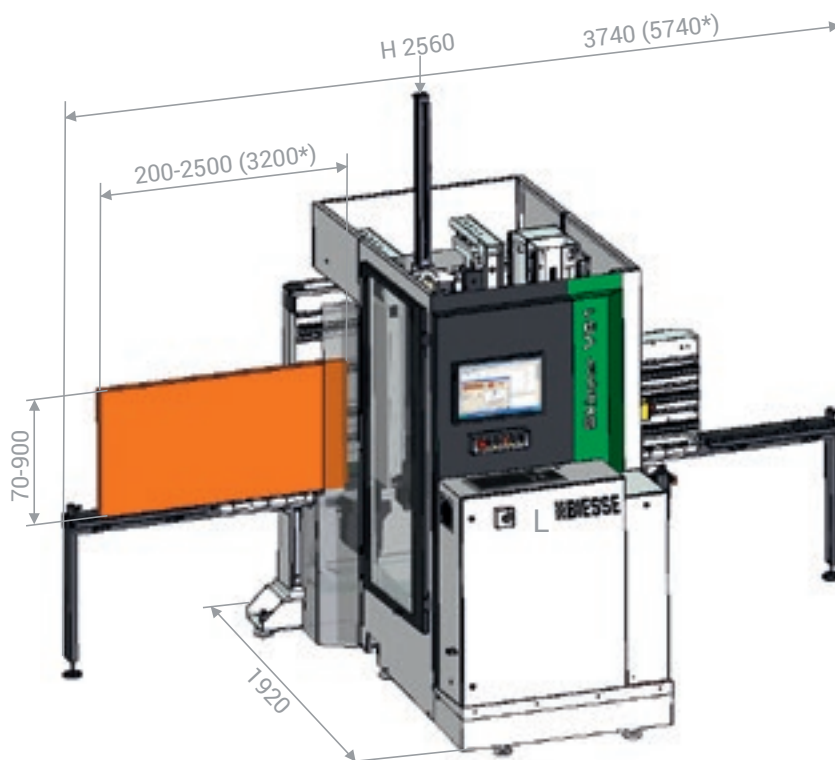
GUARANTEED RELIABILITY AND PRECISION OVER TIME

**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 opz), 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 (L_{pA}) during machining at the operator's workstation on the vane-pump machine L_{pA}=79dB(A) L_{wA}=96dB(A) Weighted sound-pressure level A (L_{pA}) at the operator's workstation and sound power level (L_{wA}) during machining on the cam-pump machine L_{wA}=83dB(A) L_{wA}=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.

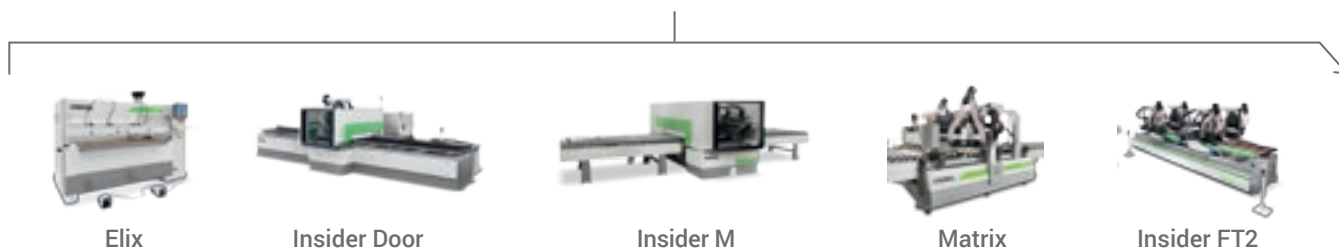
* with extensions

BIESSE BORING RANGE

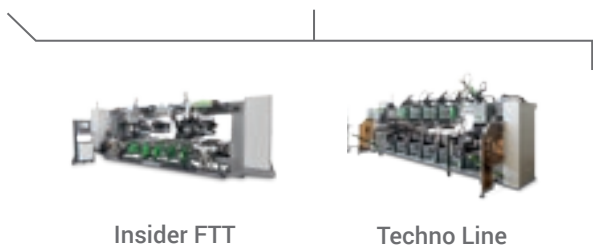
VERTICAL BORING AND INSERTION



HORIZONTAL BORING AND INSERTION



HORIZONTAL BORING AND INSERTION



SERV ICE & 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

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.



BATHROOM FURNISHINGS, TAILOR-MADE MAGIC

BMT Bagni has been producing bathroom furnishings for over 40 years, combining the artisanship and practicality of tailor-made products with new technology, which is increasingly needed to remain competitive.

A real star

At the crossroads between Romagna, Umbria and Tuscany, right in the heart of Italy, there's a magical land whose beauty is as authentic as it is legendary. This enduring beauty - marked by genuine manual skills - lives on thanks to artisan workmanship, traditional attention to detail, and the unique art that only skilled hands can truly produce. It's the perfect setting for BMT Bagni, a company from Pesaro that specialises in the production of bathroom furniture, a tangible expression of the magical essence that blends quality and aesthetics with innovative materials and designs.

Merli and Tomassini originally started out in 1971, producing accessories for furniture, and only later decided to focus on bathroom furniture. The decision proved successful, and the company now exports to 15 Coun-

tries - a trend that continues to grow. The company recently inaugurated a new plant that spans nearly 10,000 square metres, to boost production and pair cutting-edge technology with high quality standards and competitive prices.

BMT Bagni furnishings feature *recherché* solutions and are often signed by prestigious designers: "We rely on Italian architects, whose designs are unique and patented, for the creation of truly designer product lines", states Marco Merli, Product Manager and R&D / Technical Department Director, not to mention the son of one of the two historic founders. Today, BMT Bagni employs 32 people, with an annual revenue of 3.8 million euros in 2016. The company supplies the best showrooms for bathroom furniture both in Italy and abroad and serves as a contract supplier, providing tailor-made bathroom furniture for houses and businesses. Historic expertise and the drive for innovation sum up what has always been the BMT Bagni vision. As Marco puts it, "We are convinced that it's only when tradition and enthusiasm meet research and technology that true excellence is produced".

Combining form and function

From the modern to the classic, every style stands out thanks to skilled artisanship perfected over the years: BMT collections are the perfect example of elegant and cutting-edge designs responding to functional needs. They are the perfect answer to the changing demands of everyday life, and a source of new connections that engage the senses. "We believe," Marco explains, "that bathroom furniture is now an integral part of an environment that has become the temple of physical well-being, a place where elegant lines, lighting and sensations all come together". Modularity and personalisation are the unique strengths of BMT, along with a wide range of finishes, materials and colours used to customise the bathroom for each customer. They are the essence of Marco refers to as the tailor-made strategy: "This is how we design and craft the product to fit the customer's needs while striving for perfection".

BIESSE IS A VERITABLE STRATEGIC PARTNER NOT A SIMPLE SUPPLIER OF MACHINERY.



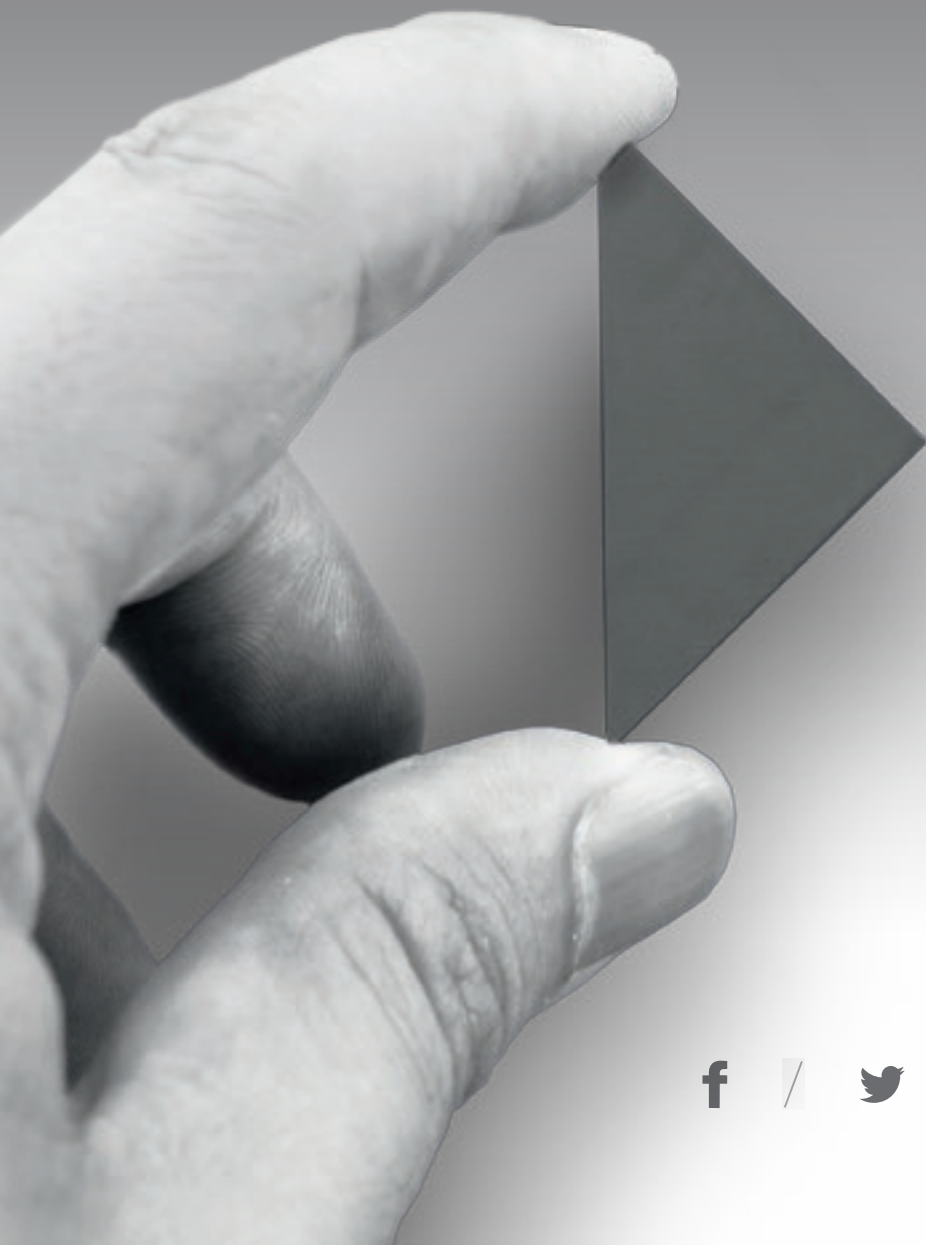
Marco Merli

Product manager

BMTBAGNI.IT



LIVE THE EXPERIENC



BIESSEGROUP.COM

E



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.

 **BIESSEGROUP**

