

BRE MIA EK01.1

VERTICAL DRILLING
MACHINING CENTRE



 **BIESSE**

COMPACT POWER



THE MARKET EXPECTS

a change in production processes to meet the ever growing request for **customised products** to satisfy customers' specific needs coupled with **quick and definitive delivery time scales**. Production volumes are no longer a certainty and manufacturing using statistical analysis is not a valid option. Production diversification is key to success.

BIESSE RESPONDS

with **technological solutions** able to meet the requirements of companies that manufacture to order, with notably reduced costs and cycle times. **Brema Eko 1.1** is the smallest automatic vertical drilling machine in the range, combining performance and flexibility in compact dimensions. It is the perfect entry-level flexible drilling solution for small businesses and the non-standard production needs of large companies, for manufacturing small batches for third parties, and for users requiring flexible just-in-time production.



BREMA EKO 1.1

- ✓ MINIMUM DIMENSIONS AND MAXIMUM ERGONOMICS FOR THE OPERATOR
- ✓ HIGH QUALITY COMPONENTS
- ✓ INFINITE MACHINING OPERATIONS CAN BE PERFORMED
- ✓ USER-FRIENDLY AND EASY MAINTENANCE



WATCH THE VIDEO

HIGH QUALITY COMPONENTS

Biesse uses the same high-tech components for all machines in its product range.



11 kW electrospindle equipped with an HSK F63 snap-on coupling to perform any machining operation using tools and aggregates.

Electrospindles, drilling heads and aggregates are designed and manufactured for Biesse by HSD, the global leader in the mechatronics sector.



Maximum drilling capacity with the new BHZ 20 drilling head, configured with 11 independent vertical spindles + 8 independent horizontal spindles and a built-in blade unit.

All machining operations on the 5 sides of the panel in a single step.

INFINITE MACHINING OPERATIONS IN SIMPLE STEPS - A UNIQUE MACHINE DESIGNED TO AMAZE



The machine's structure and components guarantee the highest level of precision for any type of machining operation.

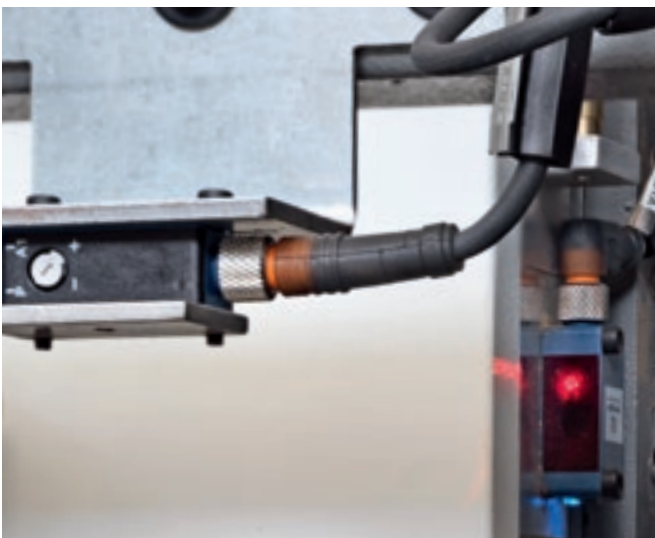
Milling, drilling and grooving for everything you need to do.

ELIMINATION OF SET-UP TIMES



Brema Eko 1.1 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 new reinforced clamps with automatic positioning and the panel thickness detection system mean that the machine can modify programme settings in real time, thereby ensuring the precision of "Z"-axis machining operations.



The laser scanner system that detects the start, end and height of the panel means that the machine can offset dimensional errors, by correcting the "X" and "Y" dimensions of the machining operation.



A MACHINE THAT ADAPTS TO MEET ALL YOUR NEEDS



4-position tool magazine that manages different kinds of aggregate, thereby expanding the machine's versatility.



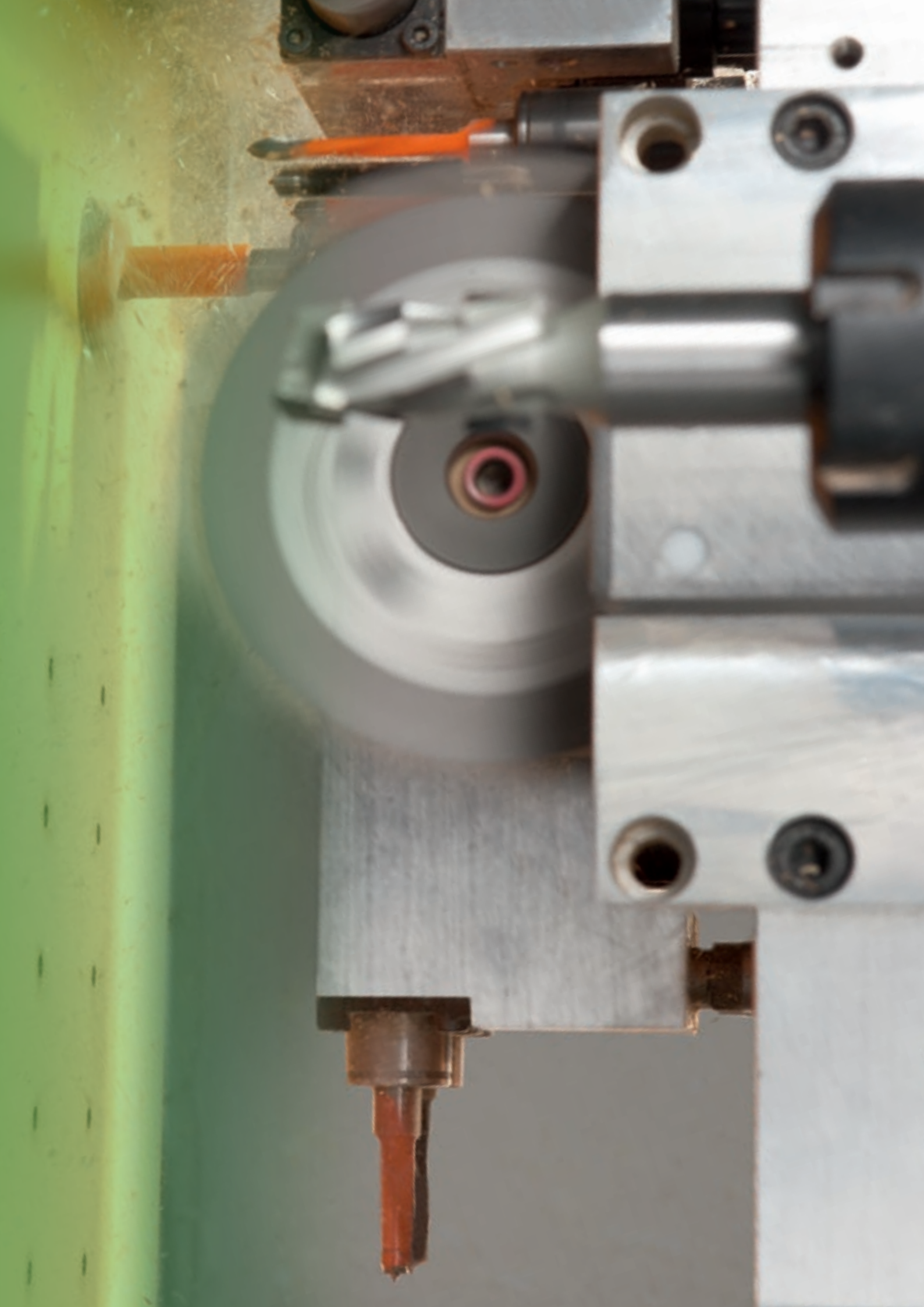
Even large panels can be loaded thanks to simple operations.

DRILLING

COMPACT POWER

Compactness, flexibility and ease of use characterise Brema Eko 1.1 as a flexible drilling machine - the smallest in the range but designed to ensure maximum flexibility and meet any requirements.

The structure of these machines is designed to achieve optimal loading and unloading ergonomics, with a small footprint which saves 50% of space in addition to offering zero set-up times and high productivity levels.



SOLUTIONS THAT MAKE USING OUR MACHINES EASIER, MORE ERGONOMIC AND MORE EFFICIENT

The vertical positioning work table means that loading/unloading operations are highly ergonomic, ensuring that even the most delicate surfaces can be processed successfully.

The barcode and QR code reader is used to upload programs in the work list by reading the information on the label and activating the sequence of machining stages.



EASY TO USE & SIMPLE, FAST AND SAFE TOOLING

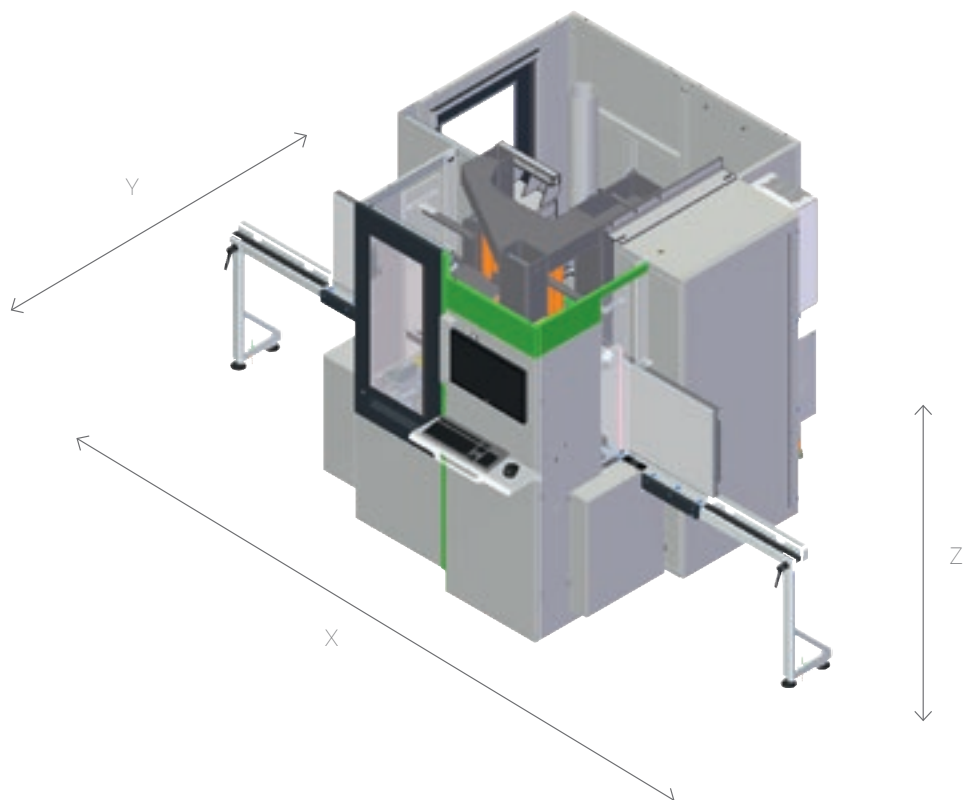


The control unit with swivelling monitor has a real-time Windows operating system and the B_SOLID software interface, including an anti-collision system.



Easy access and machine tooling thanks to the large opening doors at front and rear.

TECHNICAL SPECIFICATIONS



Machine size	mm/inch	3910x2290x2000 / 154x90x79
Min. size of machined panel	mm/inch	200x50x8 / 8x2x0.3
Max. size of machined panel	mm/inch	3200x900x60 / 126x35x2.3
Vector speed	m/ft/min	x-y = 55/180, z = 20/65

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 surface noise level A (L_{pfA}) dB(A) 75.
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 indicated are output levels and do not necessarily represent safe operational levels.

Even though there is a relation between emission levels and exposure levels, this cannot be used reliably to establish whether or not further precautions are necessary.

The factors determining the actual noise levels to which the operative personnel are exposed to include the length of exposure, the characteristics of the work environment, other emission sources, i.e. the number of machines and machining operations in the vicinity. In any case, this information will help the machine user to better assess the danger and risks involved.

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 process-

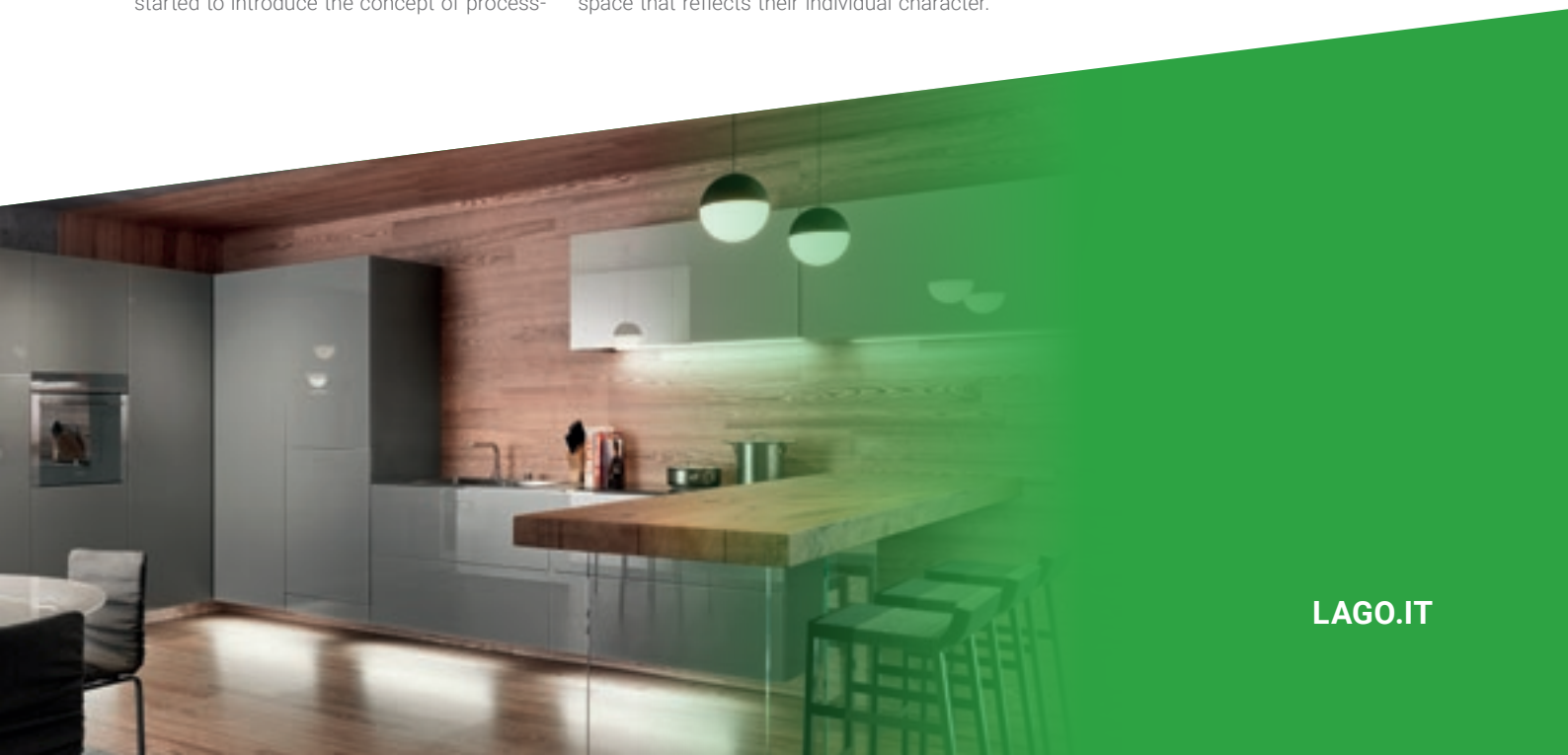
ing only outstanding orders, which enabled us to reduce our footprint and empty the site from the very beginning".

"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.



HIGH-TECH BECOMES ACCESSIBLE AND INTUITIVE



B_SOLID 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.
- Simulating machining operations to visualise the piece ahead of manufacturing and providing guidance for the planning phase.
- Virtual prototyping of the piece to avoid collisions and ensure optimal processing.
- Machining operation simulation with a calculated execution time.



MANAGING PRODUCTION IN A SIMPLE, USER- FRIENDLY MANNER

**SMART
CONNECTION**
Powered by Retuner



SMARTCONNECTION IS A SOFTWARE PACKAGE FOR MANAGING JOB ORDERS WITHIN THE COMPANY - FROM THE GENERATION PHASE TO SCHEDULING AND PRODUCTION START-UP - IN JUST A FEW SIMPLE, INTUITIVE STEPS.

THANKS TO SMARTCONNECTION, PRODUCTION SITE MACHINES CAN BE LINKED UP TO TRANSFORM THE COMPANY INTO A 4.0 ENTITY.



SmartConnection is a web-based solution that can be used by any device.

MANAGE THE JOB ORDER

PLAN

SCHEDULE

WORK

i Biesse is extending SmartConnection across all geographical areas.
To check availability in your country, get in touch with your commercial contact.

SOPHIA

GREATER VALUE FROM MACHINES



The Biesse IoT platform which enables customers to access an extensive range of services to streamline and rationalise their work management processes.

□ SERVICES

□ PROACTIVITY

□ ANALYSIS

 **BIESSE**

in collaboration with  **accenture**

CUSTOMER CARE IS WHO WE ARE

SERVICES is a new experience for our customers, to offer not just excellent technology but the added value of an increasingly direct connection with the company, the professionals who work there and the experience they embody.



ADVANCED DIAGNOSTICS

Digital channels for remote interaction online 24/7. Always ready to intervene on-site seven days a week.



A WORLDWIDE NETWORK

39 branch offices, over 300 certified agents, retailers in 120 countries, and spare parts warehouses in America, Europe and the Far East.



SPARE PARTS AVAILABLE IMMEDIATELY

Identification, shipping and delivery of spare parts.



EVOLVED TRAINING OPPORTUNITIES

Lots of on-site, online and classroom training modules for personalised growth.



VALUABLE SERVICES

A wide range of services and software packages to help our customers achieve continuous improvements in performance.

AN EXCELLENT LEVEL OF SERVICE

+550

HIGHLY SPECIALISED
TECHNICIANS AROUND
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%

OF SPARE PARTS ORDERS
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

