INSIDER FT2

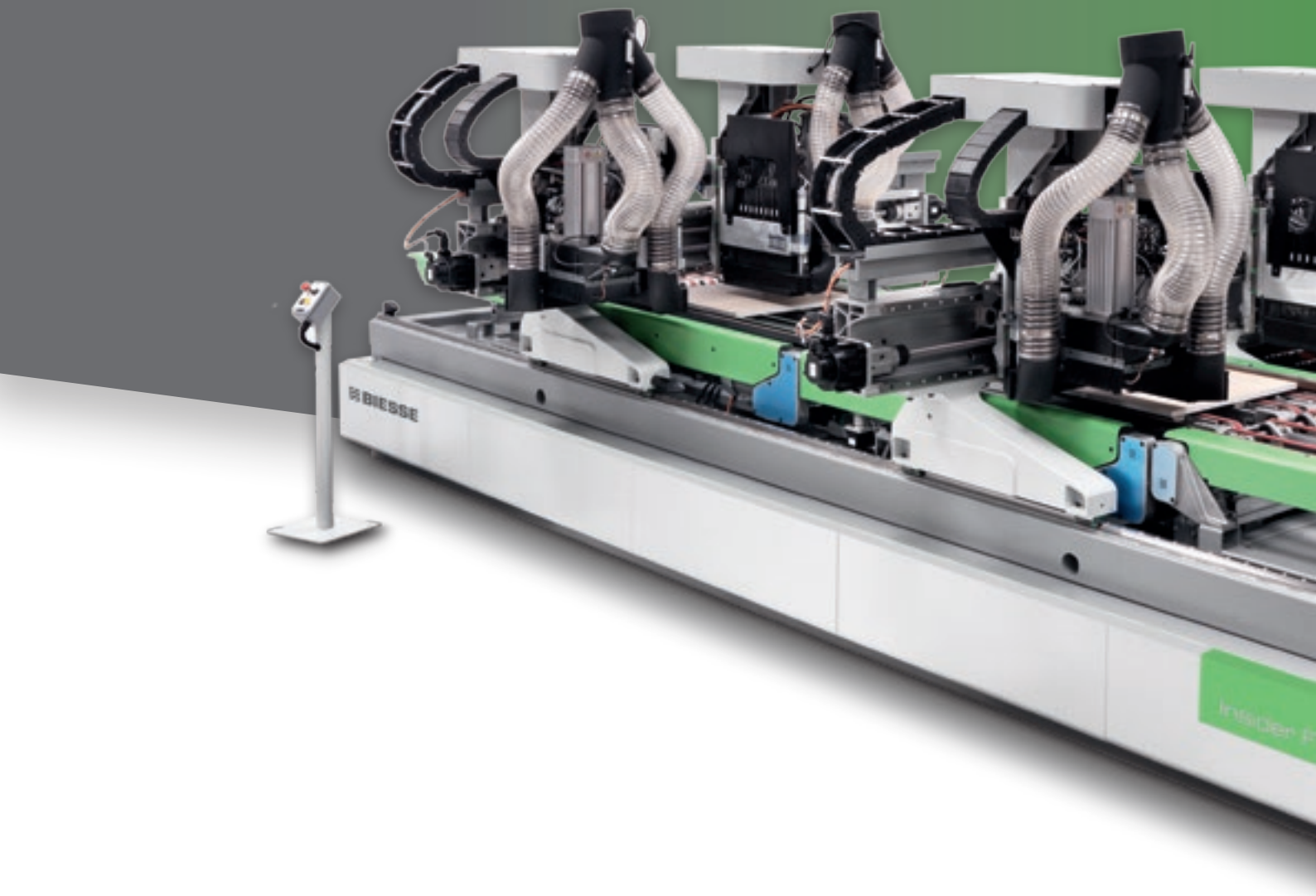
FLEXIBLE BORING MACHINE

BIESSE

50 YEARS

BIESSEGROUP

A PERFECT SOLUTION FOR ORDER-BASED PRODUCTION



THE MARKET REQUIRES

a change in production processes to meet the ever growing request for **products customised to satisfy the customer's specific needs together with quick, punctual delivery times.**

BIESSE RESPONDS

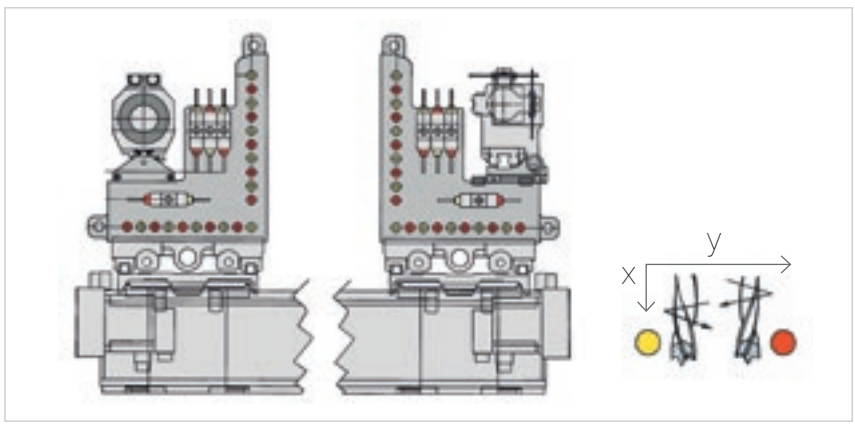
with **technological solutions** able to meet the requirements of companies manufacturing to order, with greatly reduced costs and cycle times. **Insider FT2** is a NC in-line boring machine for machining batches in sequence - with zero 'setup' time. Insider FT2 is the ideal machine for manufacturers of assembled and flat pack furniture as well as the production of third party products.

INSIDER FT2

- MACHINING PANELS OF VARIOUS FORMATS WITH ZERO SET-UP TIMES
- HIGH PRODUCTIVITY WITH THE MAXIMUM MACHINING FLEXIBILITY
- COMPLETE INTEGRATION WITH THE FACTORY WORK FLOW.

MACHINING PANELS OF VARIOUS FORMATS WITH ZERO SET-UP TIMES

The presence of **two pairs of working heads** fitted on two independent mobile carriages makes it possible to perform the most complex boring operations very quickly, even when machining a whole batch of different components.



Working heads equipped with an extensive range of tools, to satisfy every machining requirement.

HIGH PRODUCTIVITY

Insider FT2 is available in two sizes to meet any production needs:

- **Insider FT2 with a maximum working width of 700mm**
  is aimed at manufacturers of residential furniture.

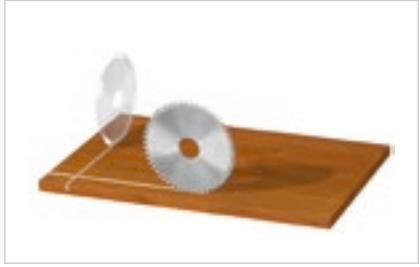
- **Insider FT2 with a maximum working width of 1300mm**
  is ideal for all types of furniture for homes, offices and shops as larger sized panels can be machined.

The working field of Insider FT2 allows the simultaneous machining of two panels or one single panel with all the working heads available.

THE INHERENT FLEXIBILITY OF INSIDER FT2 PRESENTS NO LIMITS TO PRODUCTIVITY. THE MACHINE CAN PRODUCE UP TO 2200 COMPONENTS PER SHIFT (THIS VALUE REFERS TO THE PRODUCTION OF STANDARD KITCHEN SIDE PANELS).

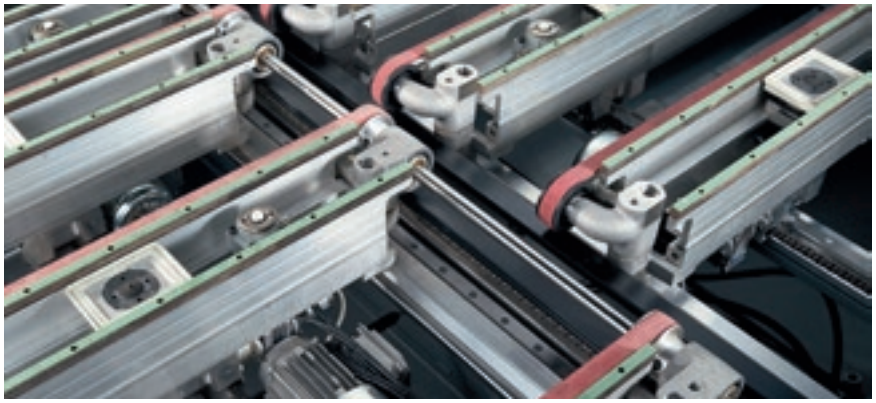
MAXIMUM MACHINING FLEXIBILITY

The system of drop-down stops guarantees full access to the front side of the panel.

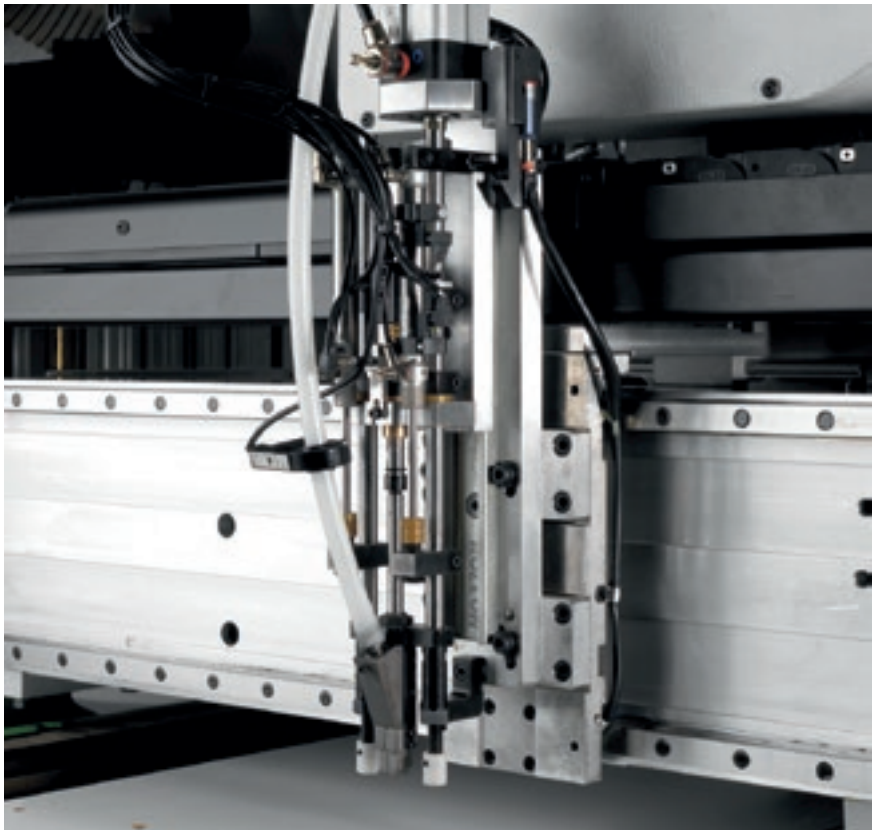


VERSION 1300 OF INSIDER FT2 CAN HANDLE MACHINING OPERATIONS THAT NEED TO BE CARRIED OUT WITHOUT SIZE CONSTRAINTS.

Even the most complex machining operations can be performed, thanks to the ability to work on 5 panel faces.



With the automatic table setup option, the conveyors and cups automatically adjust to always guarantee the necessary accessibility for each program to run. The tables are set very quickly thanks to the independent motor drive of each single element, and this in turn ensures top productivity.



A variety of compression and screw fit insertion options are available.

DRILLING SOLUTION

CONTINUOUS PRODUCTION

A complete range to satisfy all productivity and flexibility requirements.

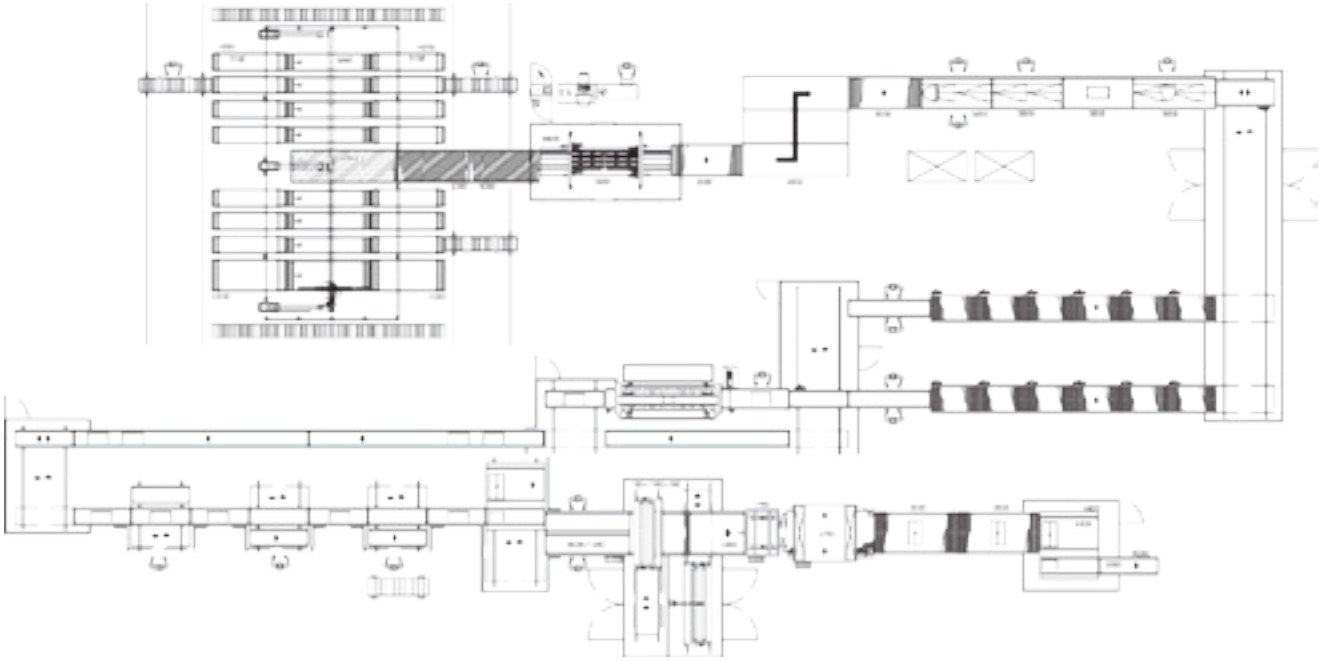
The Biesse through feed boring machine can process two panels simultaneously, reaching maximum productivity levels. Zero set-up times between panels. Material transformation cost reduction of over 60%.

COMPLETE INTEGRATION WITH THE FACTORY WORK FLOW

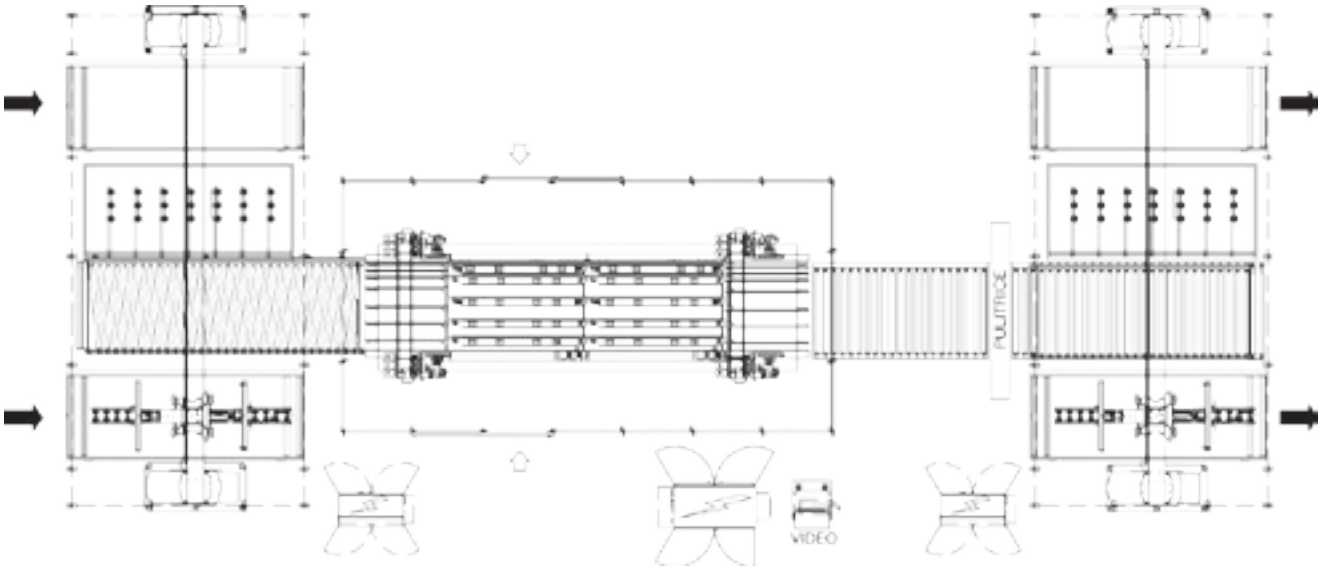
Biesse can provide bespoke solutions which are tailored to meet your specific productivity, automation and space requirements.

Winner W3 is an automatic solution that allows loading and uploading panels in lines with high machining flexibility to manage project stacks.

EXAMPLES OF INTEGRATION IN A PRODUCTION LINE

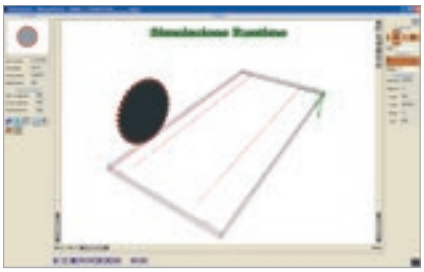


Flexible system allowing a furniture manufacturer to produce indoor furnishings to order.



Flexible boring cell at a subcontractor's site.

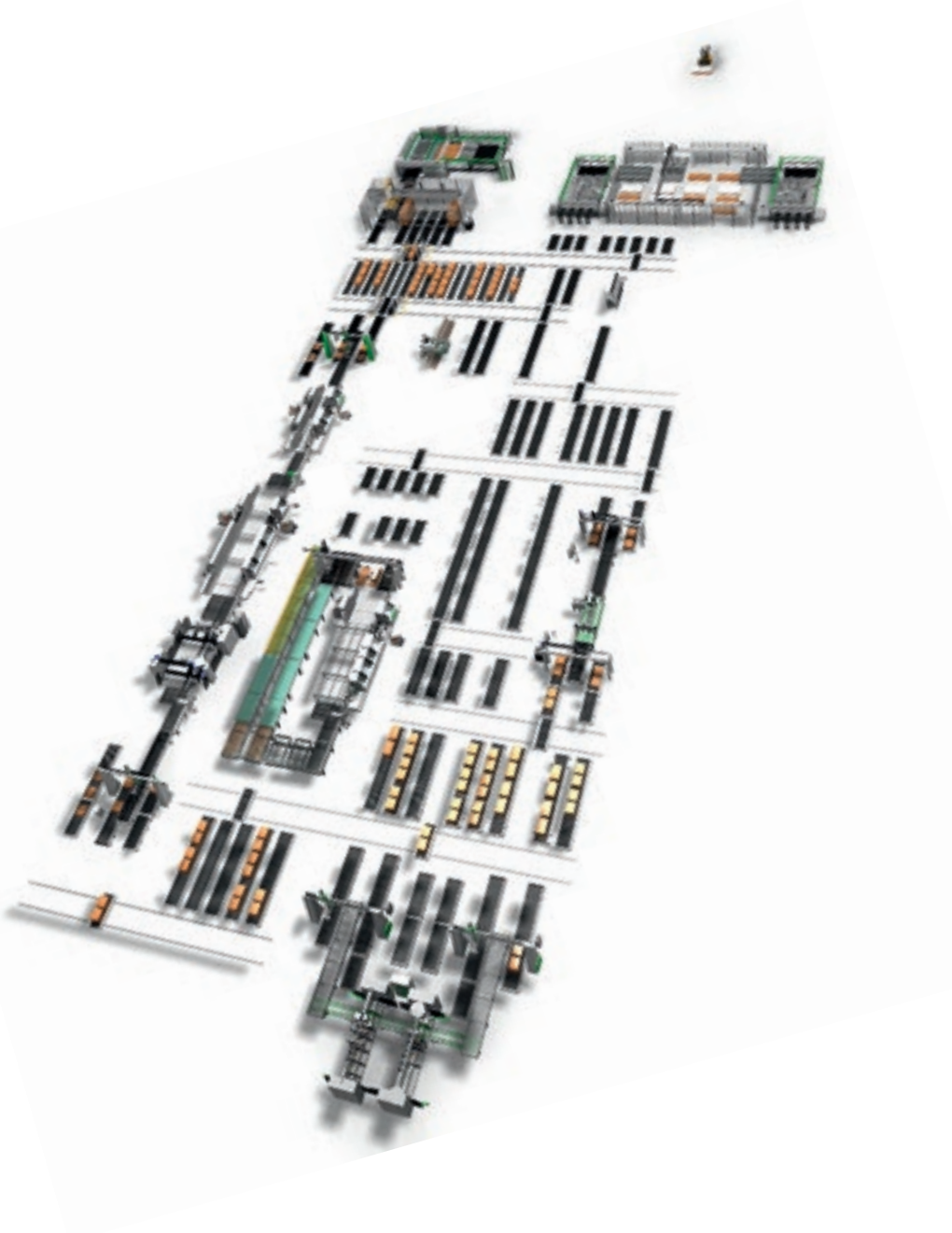
EASY TO USE, AND PERFECTLY INTEGRATED WITH THE COMPANY DATABASE



BiesseWorks is the system for programming Biesse machines, combining high performance with remarkable ease of use. The interface can be customised to meet to user requirements.

An extremely powerful yet user-friendly operator interface that allows quick decisions and automatically optimises the cycle on the basis of the tools available, to minimise work times.

Software integration within the production plants has become a pressing need. Biesse has a specialised team able to manage the system software architecture, data exchange with existing database systems (via line supervisors), and product tracking during machining.



The supervisor enables the quick and intuitive import and management of work loads, as well as management of the communication interfaces with the individual operators along the line, thus checking the entire production process.

TECHNICAL SPECIFICATIONS

WORKING DIMENSIONS

		INSIDER FT2 700	INSIDER FT2 1300
X	mm / inch	6278 / 247	7358 / 290
Y	mm / inch	3030 / 119	3840 / 151
Z	mm / inch	2000 / 79	2000 / 79

Electrical power installed	kW	39
Compressed air consumption	Nl/min	1200
Consumo aria aspirazione	Nl/min	14700

WORKING FIELDS

		INSIDER FT2 700	INSIDER FT2 1300
Dimensions of the largest panel that can be machined individually	mm inch	2700 x 700 x 50 106 x 27 x 2	3650 x 1300 x 50 144 x 51 x 2
Dimensions of the smallest panel that can be machined	mm inch	260 x 160 x 12 10 x 6 x 0,5	260 x 160 x 12 10 x 6 x 0,5
Maximum dimensions of panels that can be machined simultaneously	mm inch	1300 x 700 51 x 27	1775 x 1300 70 x 51

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=80dB(A) A-weighted sound-pressure level (LpA) for operator workstation and sound power level (LwA) during machining on cam-pump machine Lwa=99dB(A) K measurement uncertainty 4 dB(A)

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.

INDUSTRY 4.0 READY

BIESSE

Industry 4.0 is the new industry frontier, based on digital technologies and on machines that speak to companies. The products driving this revolution can communicate and interact independently within production processes, which in turn are connected via intelligent networks.

Biesse's commitment is to transform our customers' factories with real-time technology, ready to guarantee digital manufacturing opportunities, with smart machines and software packages becoming vital tools that facilitate the daily tasks of people all over the world processing glass, stone, metal and more. Our philosophy is a practical one: to supply entrepreneurs with solid data that can help them to lower their costs, optimise their processes and improve their results.

And that means being 4.0 ready.

MADE WITH BIESSE

BIESSE GROUP TECHNOLOGIES JOIN FORCES WITH LAGO'S INNOVATION AND TOTAL QUALITY MANAGEMENT PROCESSES.

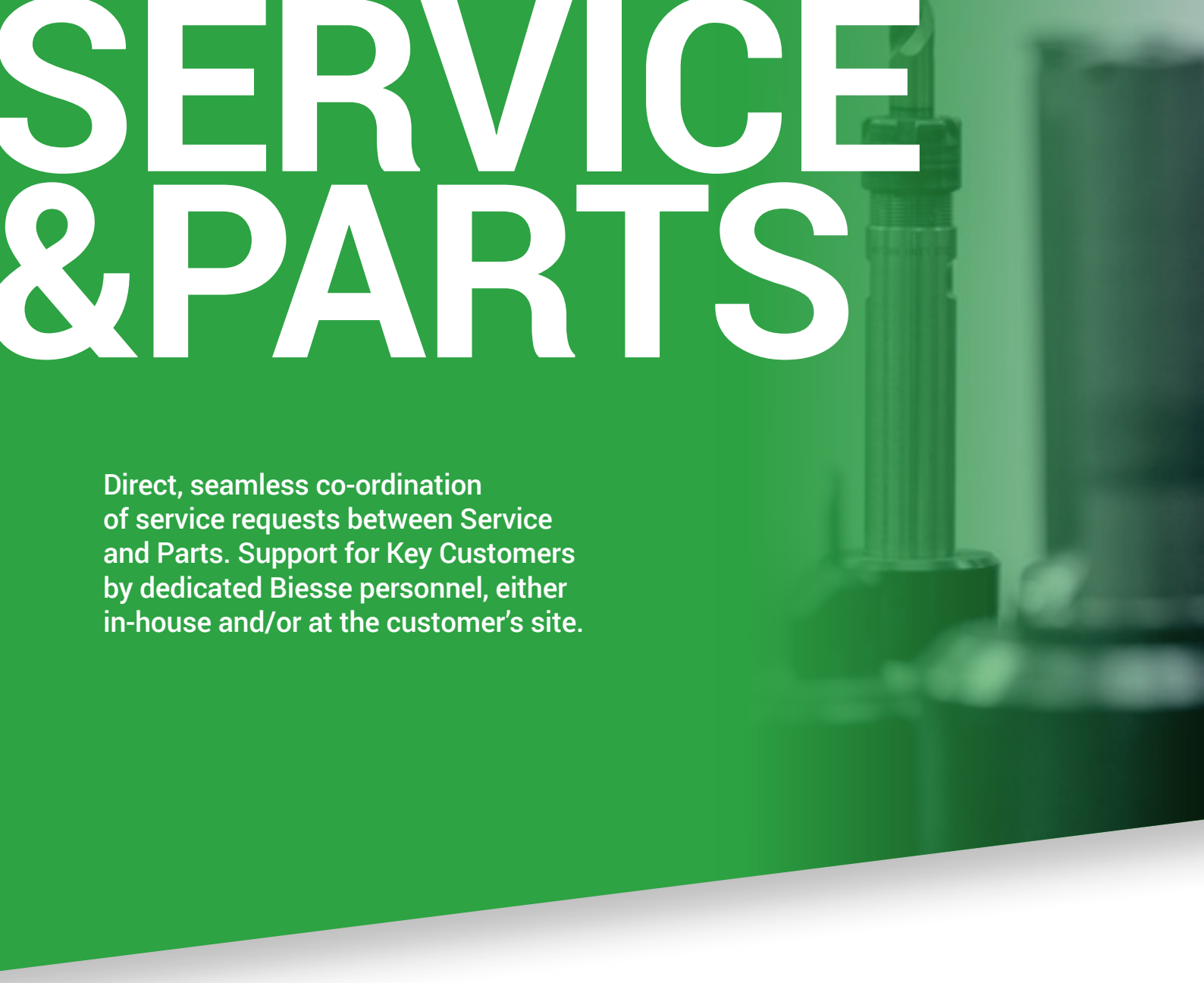
In the crowded world of domestic design, Lago takes its place as an emerging brand, thanks to a collection of stimulating products and a corporate philosophy that embraces the interaction between business and art, coupled with on-going research into sustainable development.
"We created a number of projects, 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".

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

LAGO.IT

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

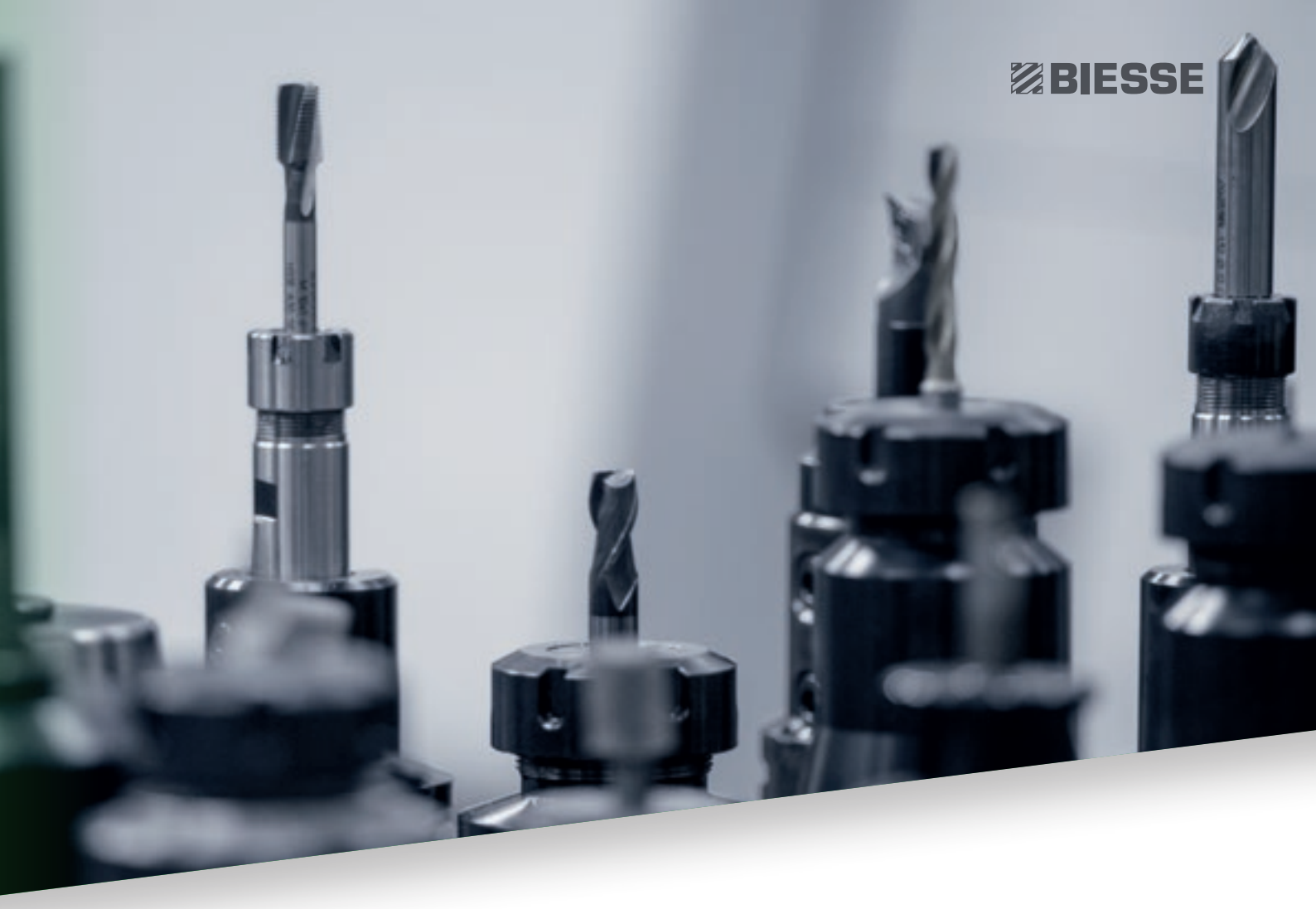
- Machine and system installation and commissioning.
- Training centre dedicated to Biesse Field engineers, subsidiary and dealer personnel; client training directly at client's site.
- Overhaul, upgrade, repair and maintenance.
- Remote troubleshooting and diagnostics.
- Software upgrade.

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 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.

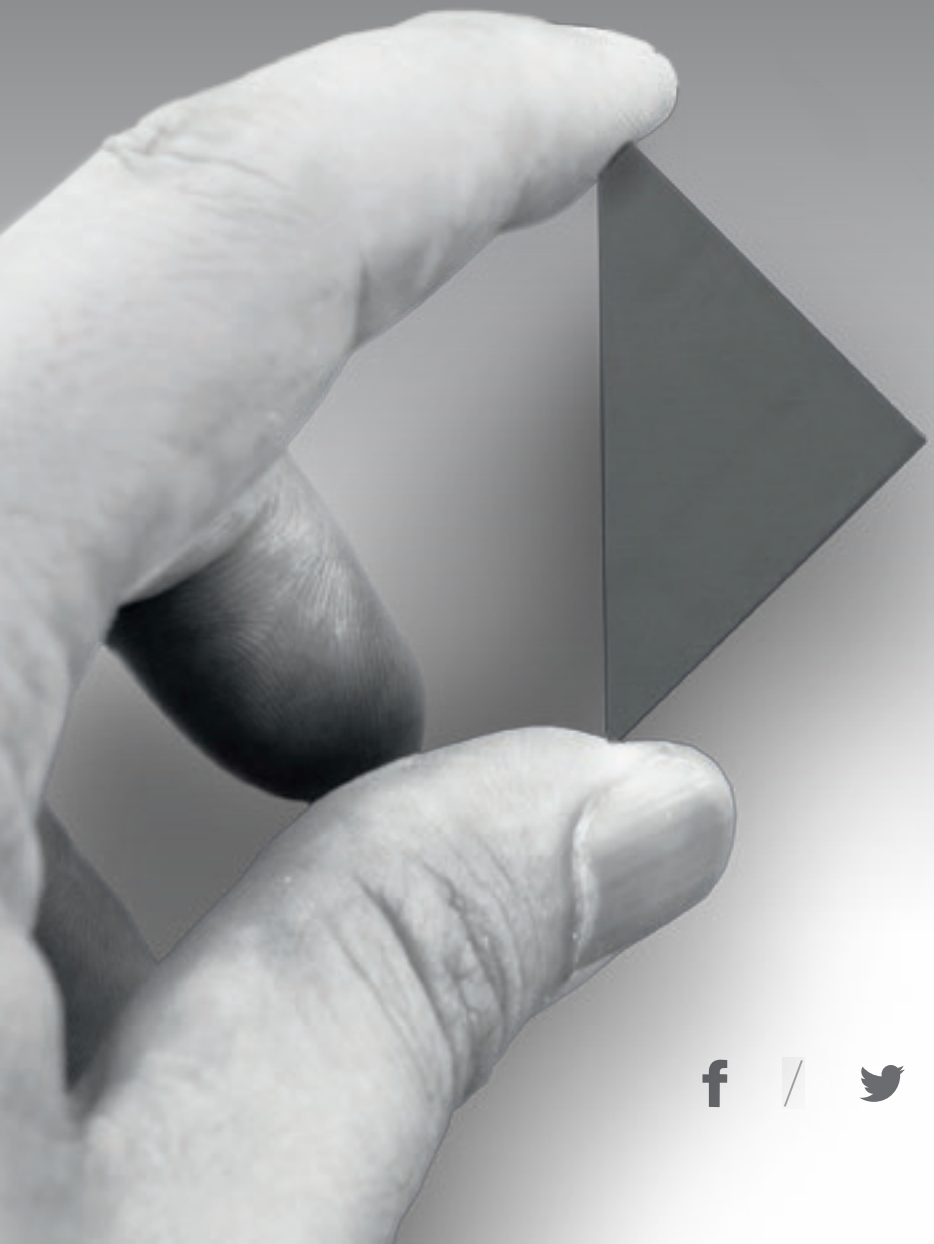
92%
of downtime machine orders fulfilled within 24 hours.

96%
of orders delivered in full on time.

100
spare part staff in Italy and worldwide.

500
orders processed every day.

LIVE THE EXPERIENC



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50 YEARS

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.

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