BIESSE INSIDER FT2

Flexible boring machine

When competitiveness means production efficiency

Made In Biesse

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. 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** 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 'set-up' time. Insider FT2 is the ideal machine for manufacturers of assembled and flat pack furniture as well as the production of third party products.

- ☑ **Machining panels of various formats with zero set-up times.**
- ☑ **High productivity with the maximum machining flexibility.**
- ☑ **Complete integration with the factory work flow.**

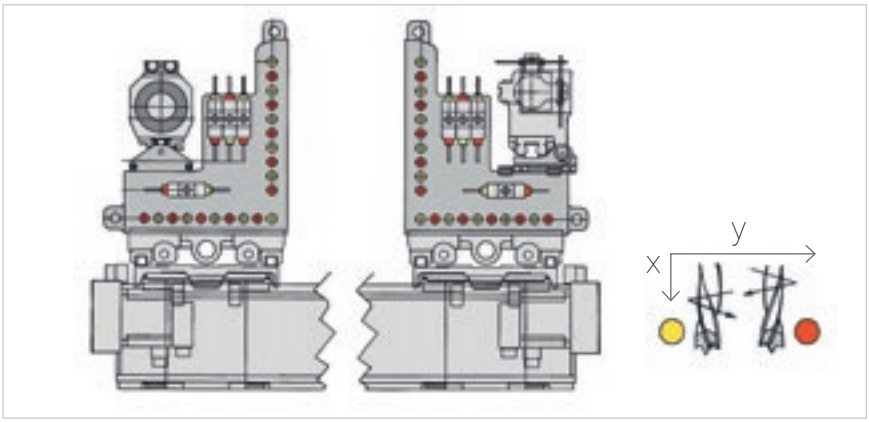
A perfect solution for order-based production

INSIDER FT2

Flexible boring machine

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 with the maximum machining flexibility.

Insider FT2 is available in two sizes. The version with a maximum working width of 700mm is aimed at manufacturers of residential furniture, while the version 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.

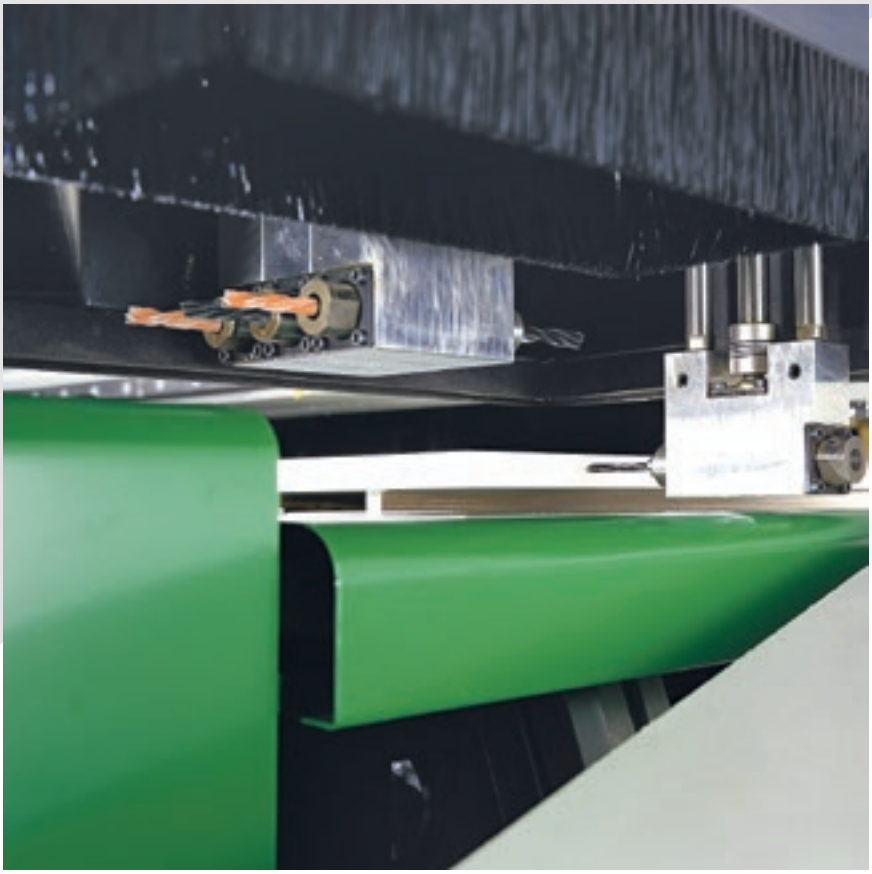
The working field of Insider FT2 allows the simultaneous machining of two panels or one single panel with all the working heads available.

Working fields

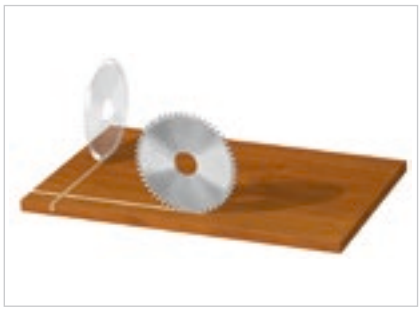
	mm	mm
Dimensions of the largest panel that can be machined individually	2700x700x50	3800x1300x50
Dimensions of the smallest panel that can be machined	260x160x12	260x160x12
Maximum dimensions of panels that can be machined simultaneously	1300x700	1850x1300

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

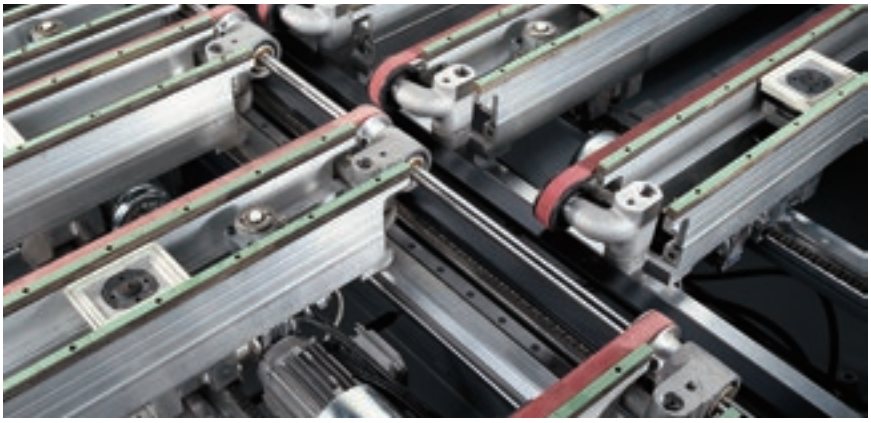


The system of drop-down stops guarantees full access to the front side of the panel.

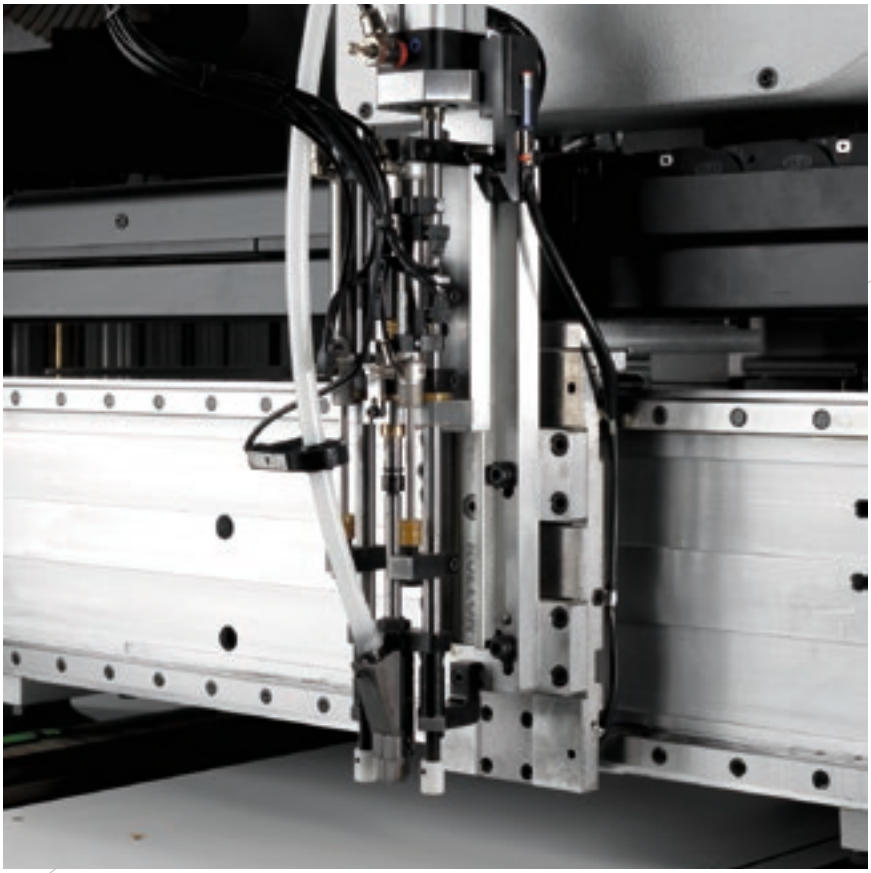


Version 1300 of Insider FT2 can handle machining operations that need to be carried out without size constraints.

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.



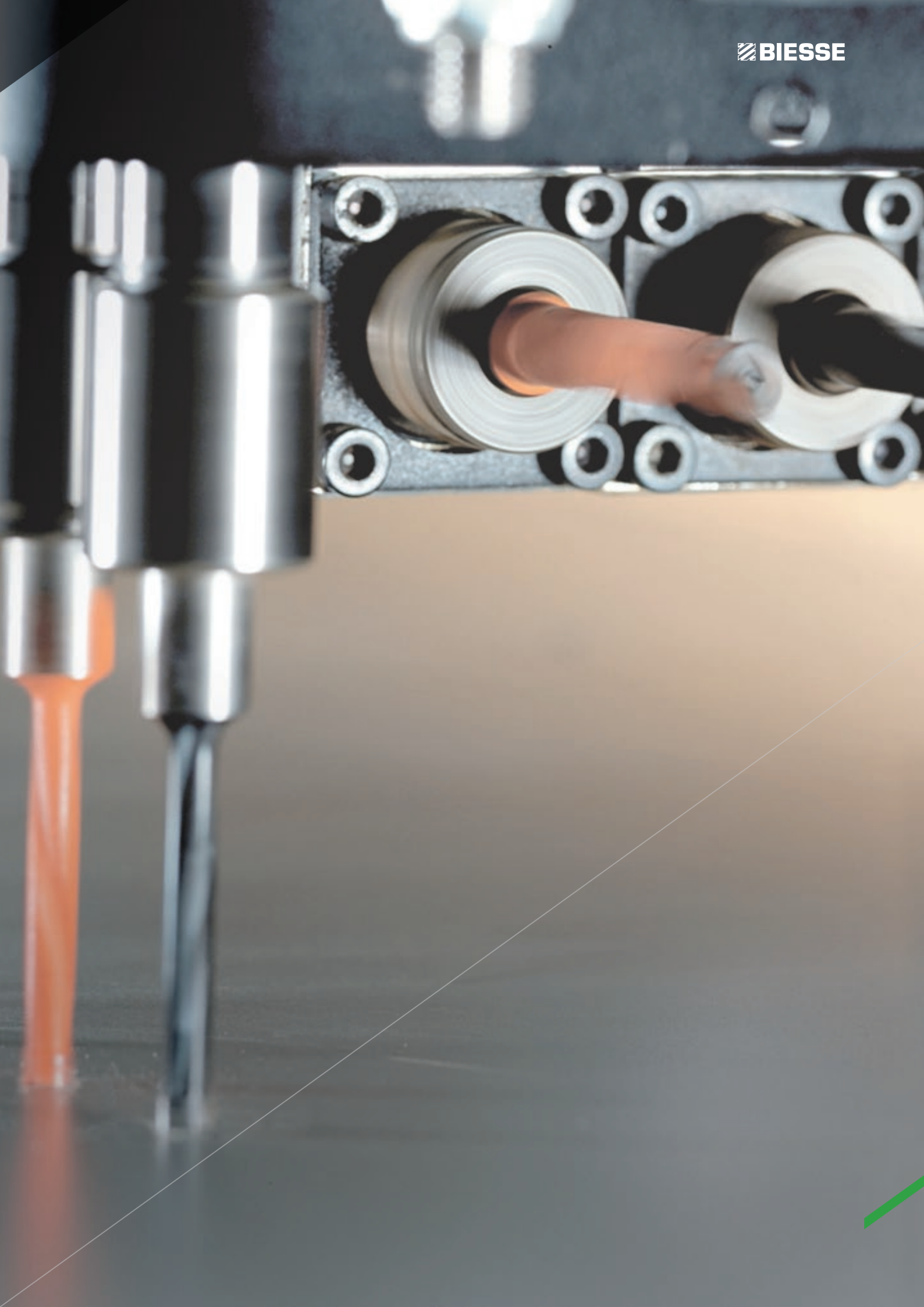
A variety of compression and screw fit insertion options are available.

Continuous production

**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%.**

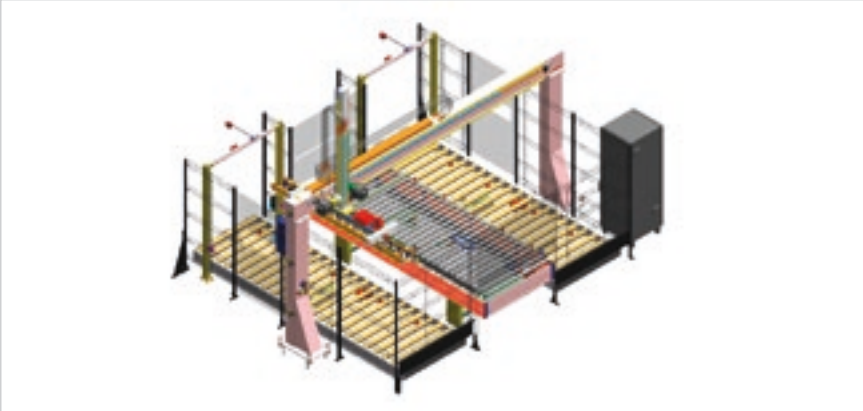
DRILLING

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



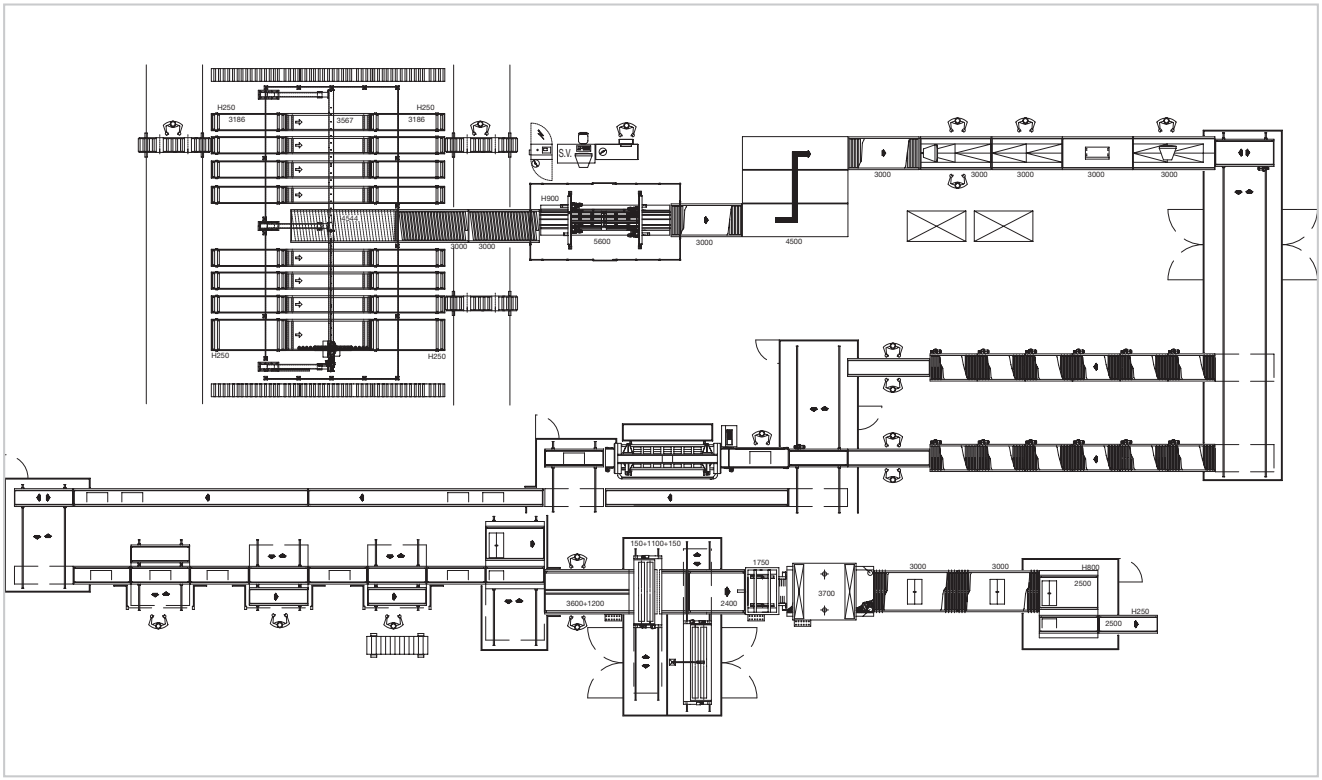
Complete integration with the factory work flow

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

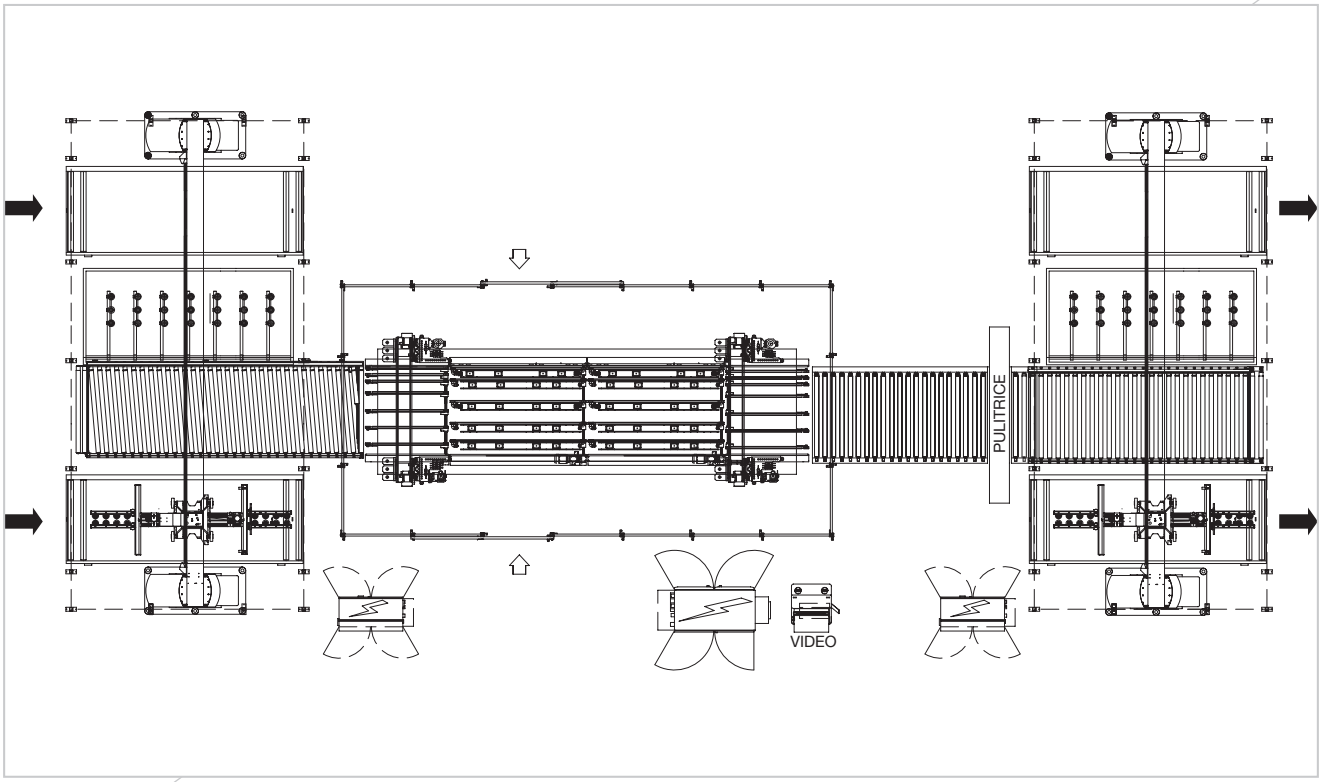


Aster is an automatic solution for loading and unloading flexible boring lines.

Examples of integration in a production line.

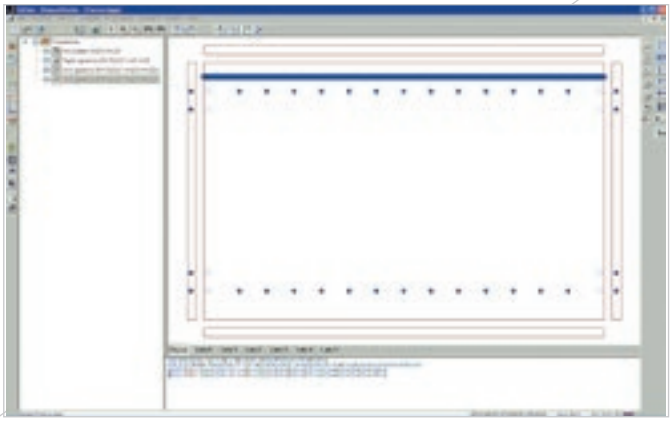


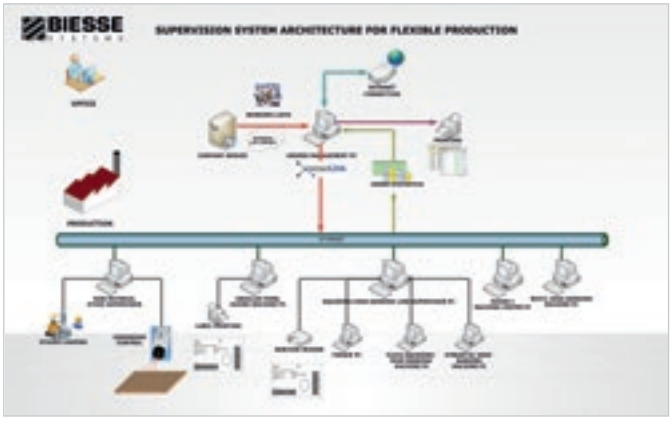
Flexible system allowing a furniture manufacturer to produce indoor furnishings to order.



Flexible boring cell at a subcontractor's site.

Easy to use, and perfectly integrated with the company database





biesseworks
simply advanced

The BiesseWorks graphic window interface uses all the typical operating modes of Windows:

- ☑ **assisted graphic editor for programming the machining operations**
- ☑ **parametric programming and assisted creation of parametric macros**
- ☑ **import of files from CAD and other external software in DXF and CID3 format.**

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
	(mm / inch)	(mm / inch)
x	6278 / 247	7358 / 290
y	3030 / 119	3840 / 151
z	2000 / 79	2000 / 79

Electrical power installed	39 kW
Compressed air consumption	1200 Nl/min
Suction air consumption	14700

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.

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".

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 / **30 branches and 300 agents/selected dealers.**

With / **customers in 120 countries, manufacturers of furniture, design items and door/window frames, producers of elements for the building, nautical and aerospace industries.**

We / **2,800 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.

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