

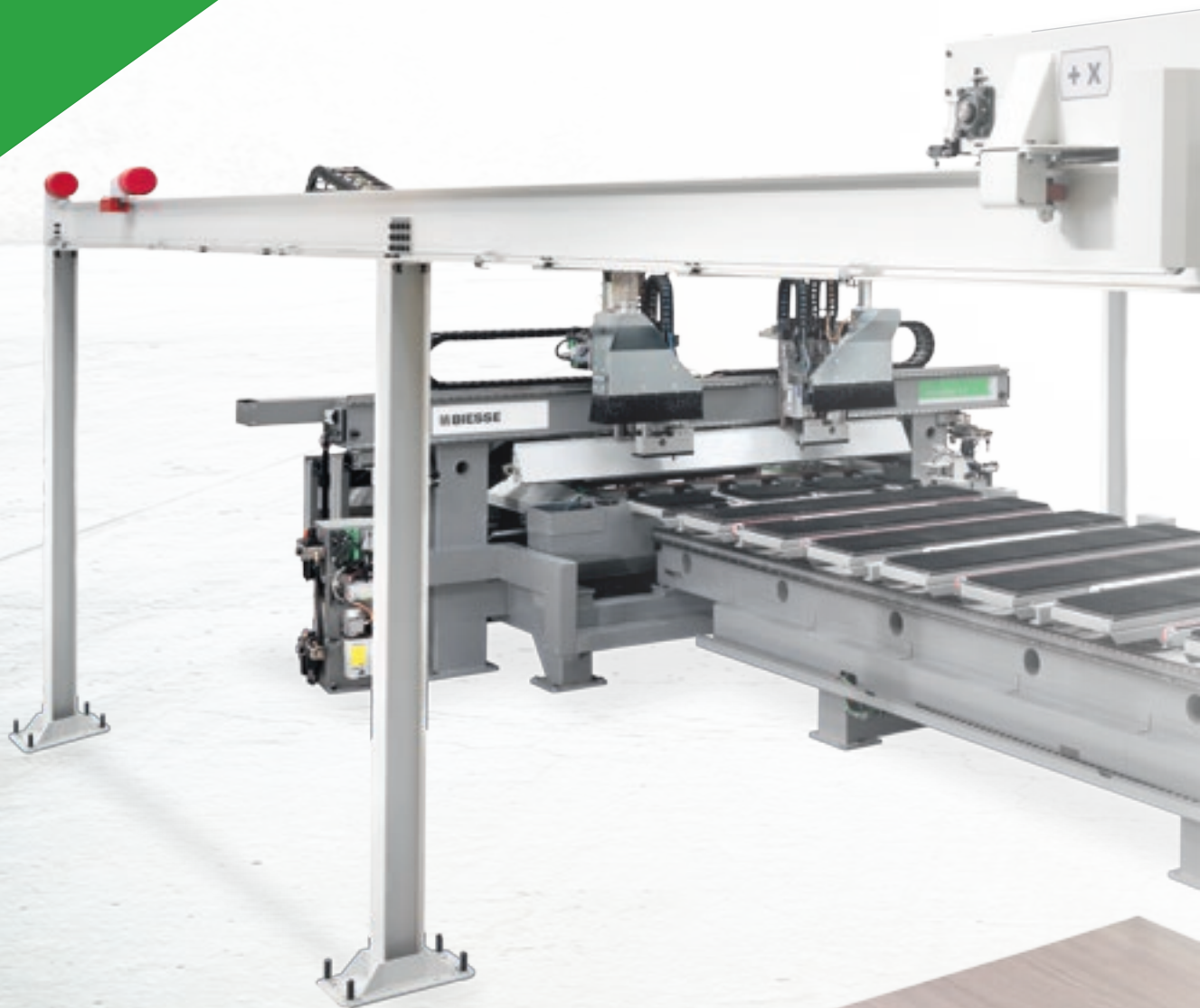
Nextstep

numerical control flexible cutting centre



 **BIESSE**

When competitiveness means optimising processes



Made **In** Biesse

The market demands

a change in manufacturing processes that will enable companies to **accept the largest possible number of orders**. All while maintaining high quality standards, **increased productivity** and **fast, reliable delivery times**.

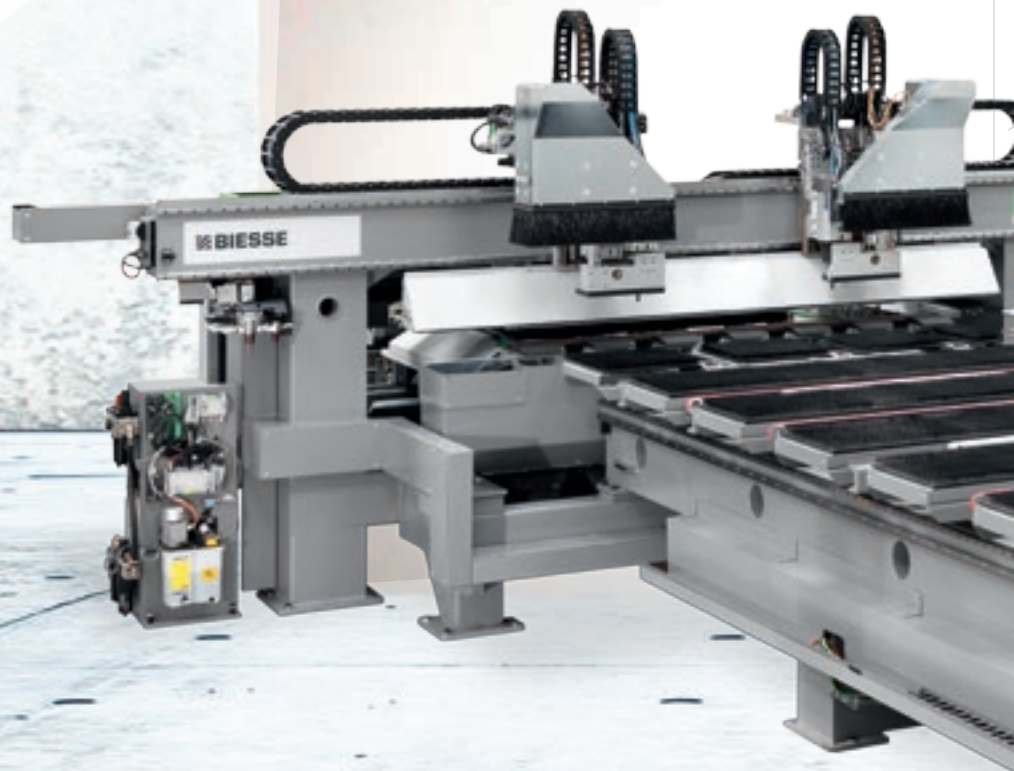
Biesse meets these requirements

with **cutting-edge technological solutions** that enhance and support technical expertise as well as process and material knowledge.

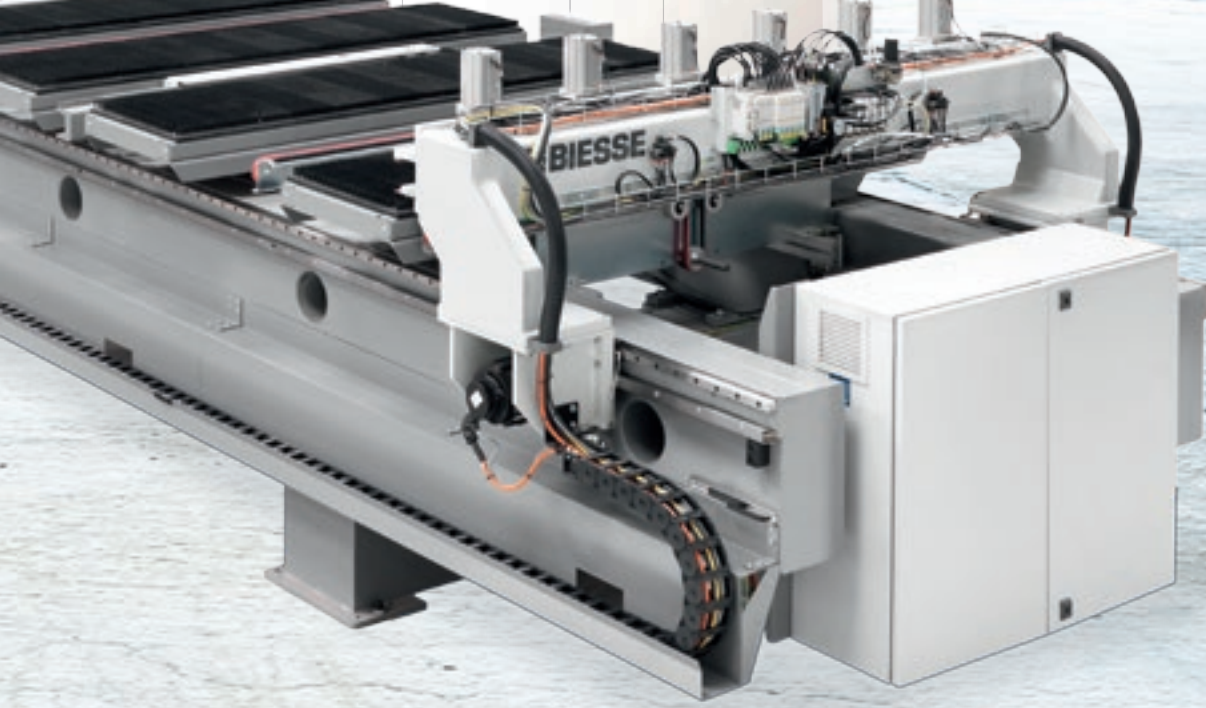
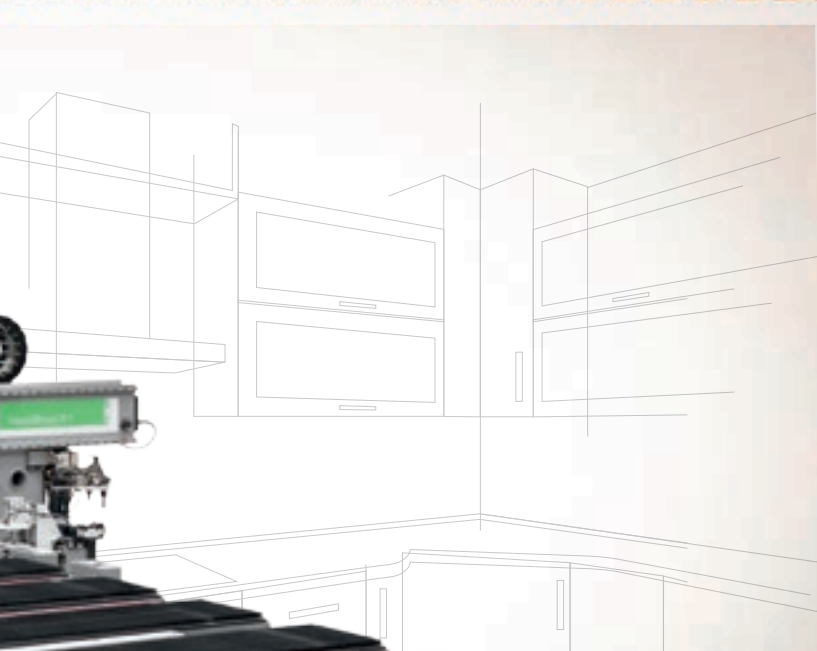
The **NextStep** flexible cutting centre is the only solution on the market that combines two processes in one: the flexibility of a machine with router and the precision of a squaring machine. It is also the only solution that can machine two overlapping panels simultaneously. Ideal for customers who need to diversify the production of small batches of panels.

- ▶ **Maximum precision thanks to simultaneous machining with two routers.**
- ▶ **High productivity thanks to the possibility of machining two overlapping panels.**
- ▶ **Intelligent management of waste.**
- ▶ **Total integration in Batch-One line contexts.**

Two simultaneous processes in one machine

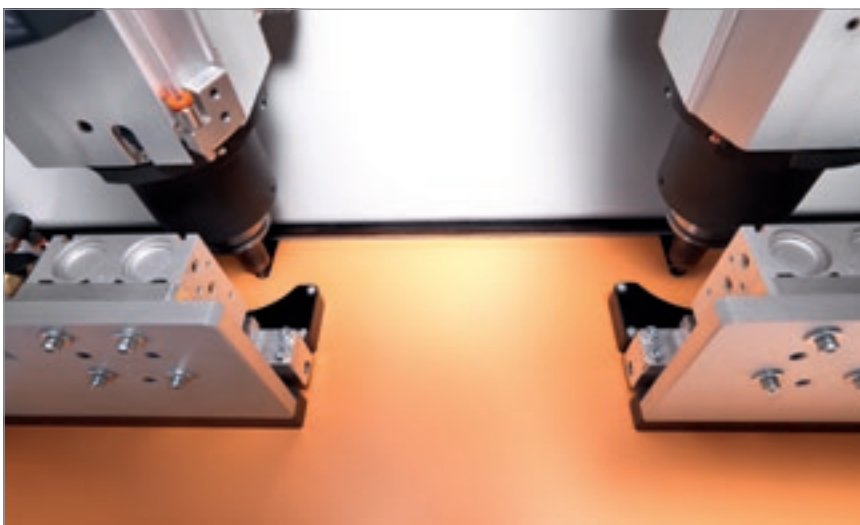


Nextstep
numerical control flexible cutting centre



Maximum squaring precision

The Nextstep flexible cutting centre guarantees perfect squaring thanks to the simultaneous use of two routers and the combined action of the rear pushing device grippers, side gripper and vertical pressers.



Cutting and squaring in just one step.



8-position tool change for each of the two electrospindles.

Maximum efficiency and high productivity



Nextstep allows users to machine two overlapping panels.



Automatic management of waste

Waste is produced when the machine is running to reduce cycle time and is then automatically emptied.

The piece goes out squared and ready for edgebanding.

Flexibility for small batches

The batch-1 process allows the user to process small groups of different panels in sequence according to the specific production requirements, with zero set-up time and maximum production optimisation (for up to 1200 pieces per shift).





BATCH ONE

A single project based on various machines and processes, with one important production target. A wide range of Biesse solutions ranging from cutting to flexible boring, with special attention paid to the piece squaring quality. A perfect combination of Biesse flexibility and Italian genius.

High-tech becomes accessible and intuitive



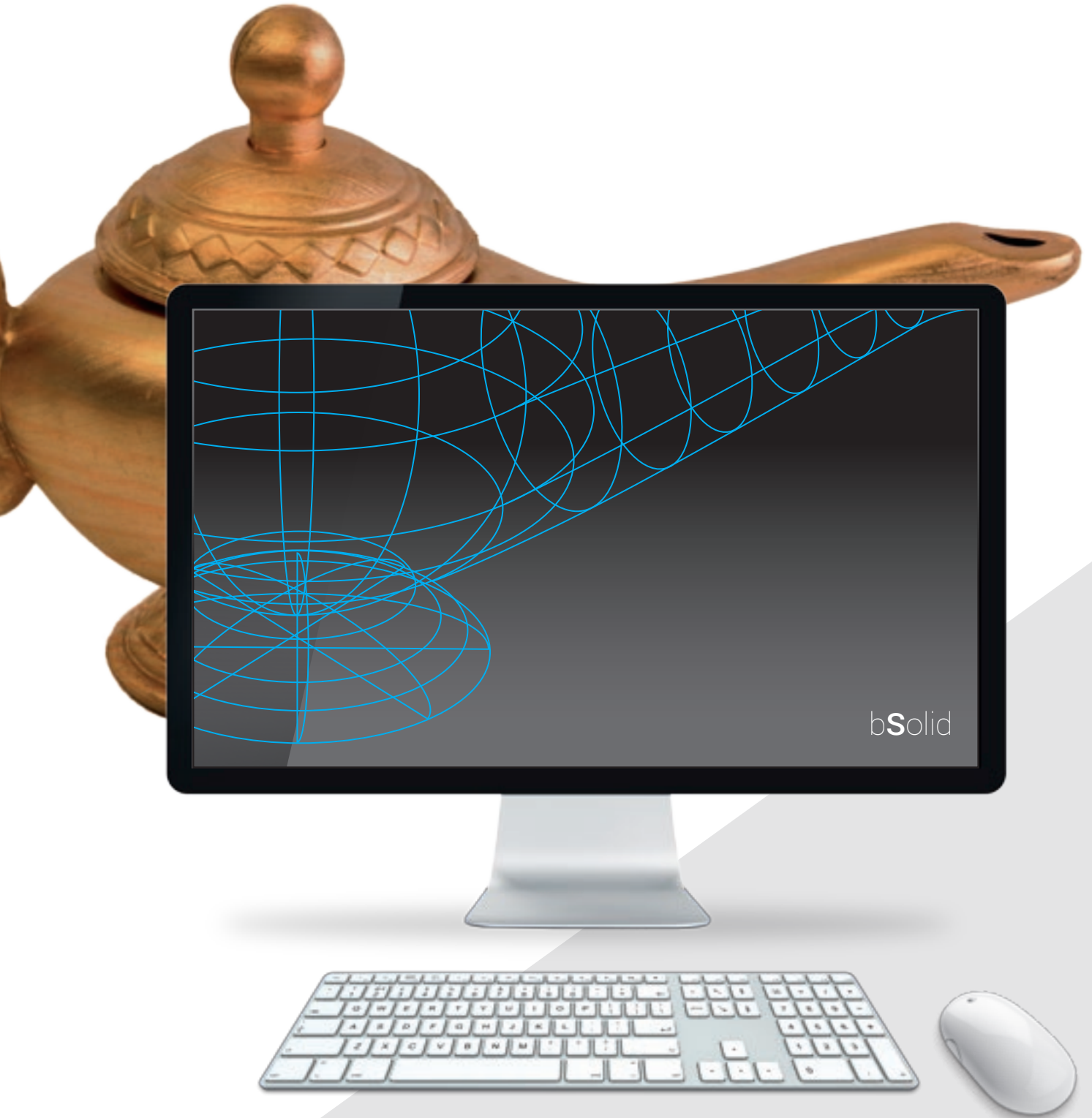
bSolid is a 3D cad cam software program that supports the performance of any machining operation thanks to vertical modules designed for specific manufacturing processes.

- ▶ **Planning in just a few clicks, with endless possibilities.**
- ▶ **Simulating machining operations to visualise the piece ahead of manufacturing and have some guidance for the planning phase.**
- ▶ **Virtual prototyping of the piece to avoid collisions and ensure optimal machine equipment.**

Watch the **bSolid** ad at: youtube.com/biessegroup



bSolid



Reduced time and waste

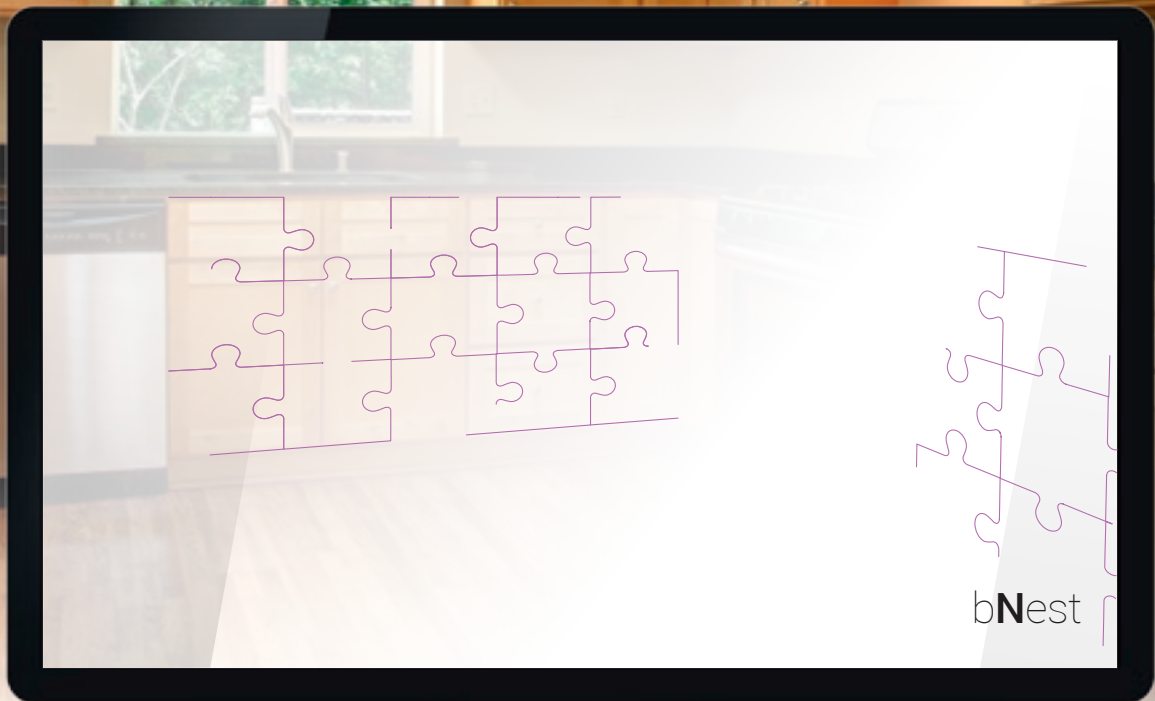


bNest is the bSuite plugin specifically for nesting operations. It allows you to organise your nesting projects in a simple way, reducing the material waste and machining times.

- ▶ **Reduced production costs.**
- ▶ **Simplified work for the operator.**
- ▶ **Integration with company software.**



bNest



Competitive customisation

Biesse Systems is a team of highly trained engineers for large scale production processes. Biesse Systems offers integrated cells and systems which are capable of maximising customer competitiveness by combining mass production techniques with a high degree of customisation to meet customers' exact requirements.





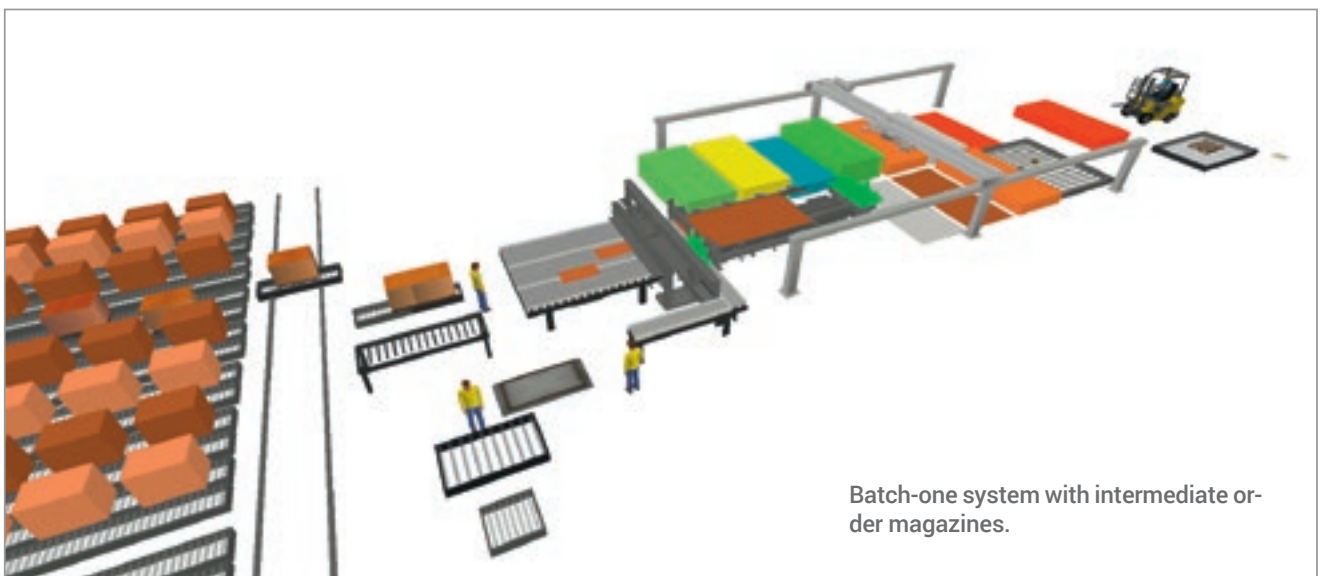
PRODUCTION LINES

Made-to-measure turnkey factories, plus the integration of Biesse Group solutions with complementary software and machinery with over 1000 systems installed worldwide. A perfect combination of Biesse Group experience and Italian genius.

Total integration

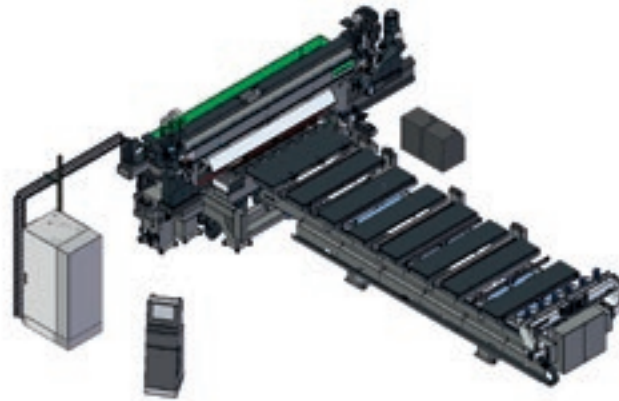


Integration with the Winstore loader allows several panels, of different shapes and types, to be automatically managed so that different customer requirements can be met and production can be optimised and increased.



Batch-one system with intermediate order magazines.

Technical specifications



Working dimensions

	Nextstep X1 5.6	Nextstep X1 4.4
	mm	mm
X	9340	8140
Y	6050	6050
Z	2870	2870
Work table height	1200	1200

Working field - loadable sheets

	Nextstep X1 5.6	Nextstep X1 4.4
	mm	mm
X	1000 - 5600	1000 - 4400
Y	1000 - 2250	1000 - 2250
Z	10 - 60 (*)	10 - 60 (*)

(*) 2 overlapping sheets of the same size can be processed, total height must not exceed 60 mm.

Panel dimensions

	Nextstep X1 5.6 base	Nextstep X1 4.4 base
	mm	mm
X	160 - 3200	160 - 3200
Y	120 - 2200 machining with single spindle	120 - 2200 machining with single spindle
Y	160 - 2200 machining with dual spindle	160 - 2200 machining with dual spindle
Z	10 - 60	10 - 60

Speed

	Nextstep X1 5.6	Nextstep X1 4.4
	mm	mm
Axes	X=85 Y=85 Z=25 m/min	X=85 Y=85 Z=25 m/min
Electrospindles	12000 - 24000 rpm	12000 - 24000 rpm

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 on the operator workstation with dual electrospindle Lpa=80dB(A). Measurement uncertainty K 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: 2010 (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.

Made **With** Biesse

Biesse Group technology supports the manufacturing efficiency of the world's largest furniture manufacturers.

"We were looking for a solution that was so cutting-edge as to meet all our needs at the same time", states the manufacturing manager of one of the largest furniture manufacturers in the world. "Most of our production was already made using numerical control tools, but now everything that we produce is made with these technologies. This is why it was necessary to increase our production capacity. Biesse offered a solution that we liked

very much, an authentic line of processing centres and automatic magazines. Innovative, fascinating and decidedly powerful. With Biesse we defined a "turn-key" solution to be planned, built, tested, installed, inspected and commissioned within a precisely defined schedule".

Source: excerpt from an interview with the manufacturing manager of one of the world's largest furniture manufacturers.



Biesse Group

In / 1 industrial group, 4 divisions
and 9 production sites.

How / € 14 million p/a in R&D
and 200 patents registered.

Where / 37 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 / 3,800 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 STAR sector of Borsa Italiana since June 2001 and is currently a constituent of the FTSE IT Mid Cap index.

 **BIESSEGROUP**

 **BIESSE**

 **INTERMAC**

 **DIAMUT**

MECHATRONICS

