

WIN STORE

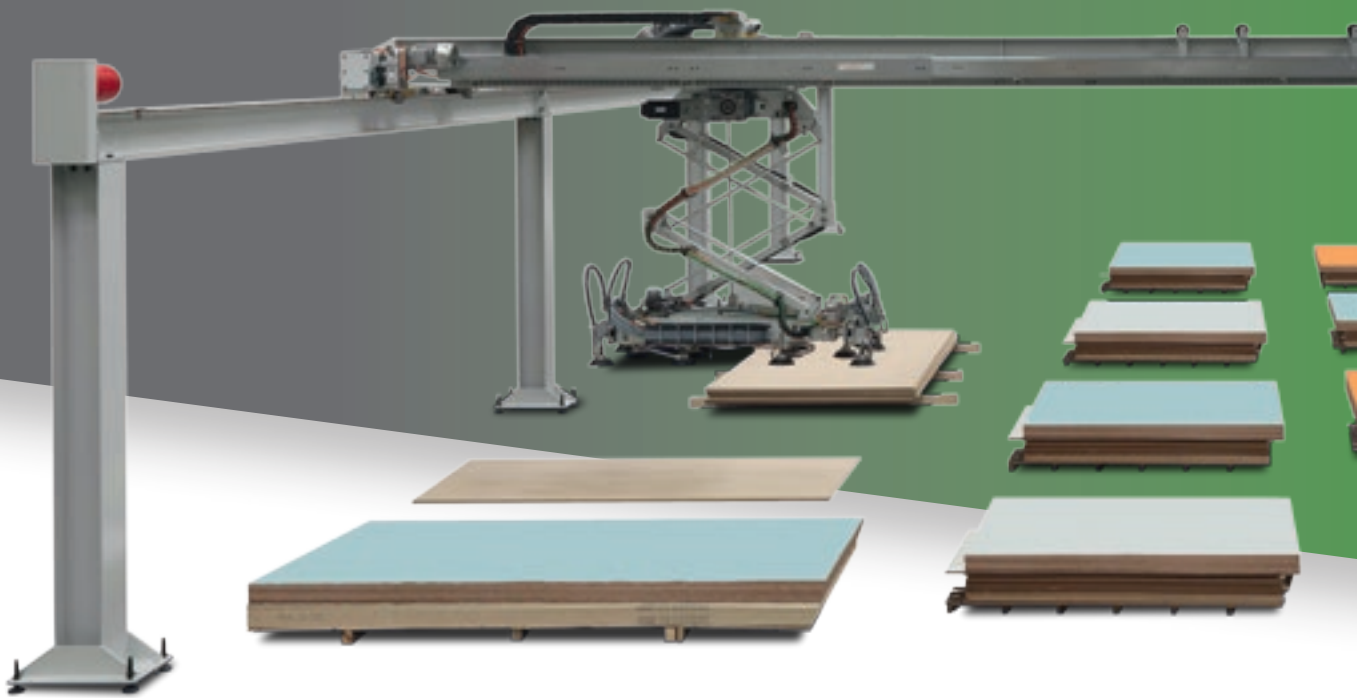
AUTOMATED MAGAZINE



 **BIESSE**

 **50 YEARS**
 **BIESSEGROUP**

MANUFACTURING WHAT YOU NEED WHEN YOU NEED IT



THE MARKET DEMANDS

a change in manufacturing processes which enables companies to **accept the largest possible number of orders**. This is coupled with the need to maintain high quality standards and **high productivity** for products manufactured in a large number of variants, **with quick and defined delivery times**. It is no longer possible to predict production volumes with any certainty, so you cannot afford to build up costly inventory that eventually becomes obsolete.

BIESSE RESPONDS

with **high-tech solutions** that can meet the technical requirements of contract manufacturers, thus considerably reducing costs and cycle times. **Winstore** is an automated magazine for the optimised management of panels for large contract manufacturers, which guarantees production with reduced times and costs. Winstore can be integrated into nesting and sizing cells with a significant increase in productivity.



WINSTORE

- ✔ RETURN ON INVESTMENT WITHIN ONE YEAR THANKS TO INCREASED EFFICIENCIES AND COST REDUCTION
- ✔ PRODUCTION FLOW OPTIMISATION
- ✔ INTEGRATION IN THE PRODUCTION LINE
- ✔ INTEGRATION WITH PRODUCTION MANAGEMENT SOFTWARE.

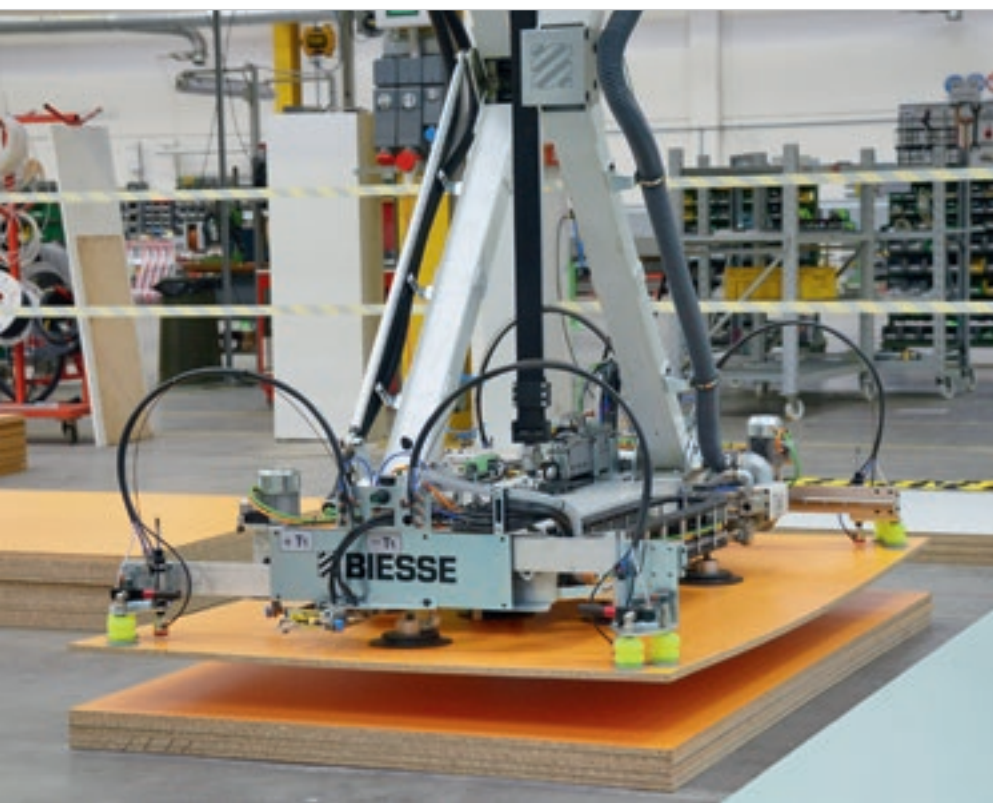
RETURN ON INVESTMENT WITHIN 1 YEAR

Production line performance increase
of up to 25% when working in real time processing.



Winstore **stacks panels of different sizes and materials**, including mixed ones, with no need for operator intervention. The reorganisation of the panel magazine and stacking can be carried out automatically, and out of working hours.

35% reduction of product delivery time compared to conventional solutions.



Magazine mapping is fully optimised thanks to the **panel automatic handling** managed by the system supervision software. **The panel scissor pick-up mechanism** enables installation in low-height areas, as well as supporting high system performance and guaranteeing optimal panel stability.

**10% REDUCTION IN RAW MATERIALS
COMPARED TO CONVENTIONAL PRODUCTION
HANDLING METHODS**



The **rotating panel pick-up system** and **squaring laser photocells** optimise the magazine internal area enabling the perfect alignment of the stack as well as correcting manual loading errors.

Waste reduction.

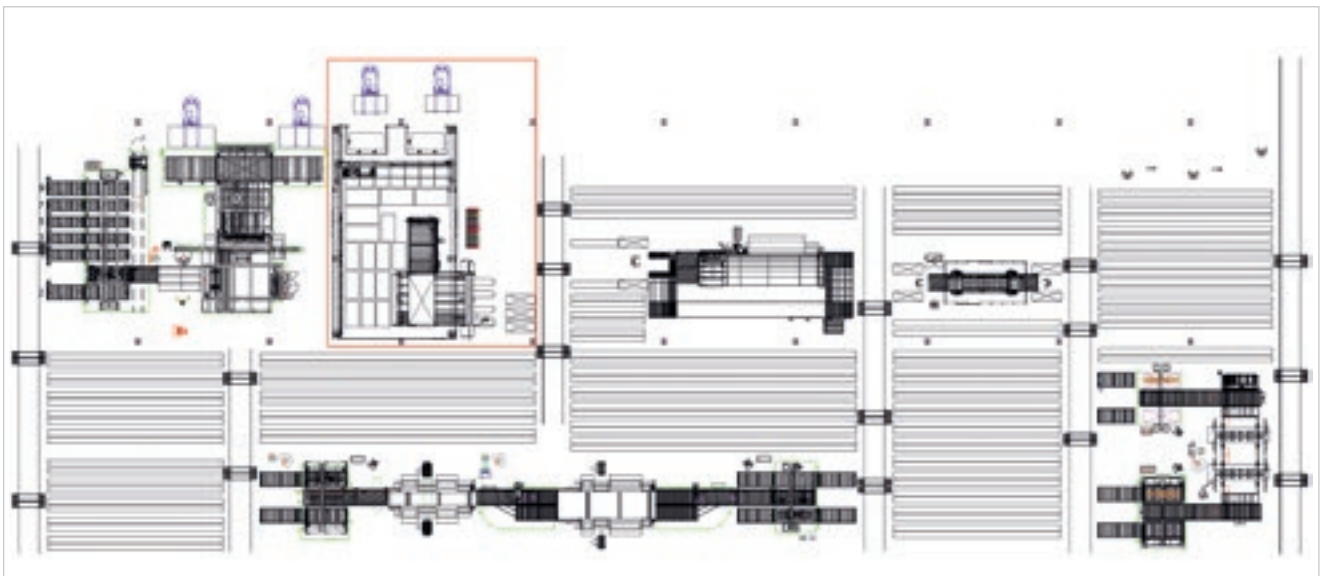


Greater efficiency of floor and storage space due to the management of multi-sized and multi-coloured stacks.

**30% LABOUR
REDUCTION.**

2 CUSTOMISABLE CONFIGURATIONS DEPENDING ON PRODUCTION NEEDS

Cells can be customised with respect to sizing and nesting capability and based on the magazine's size and characteristics.

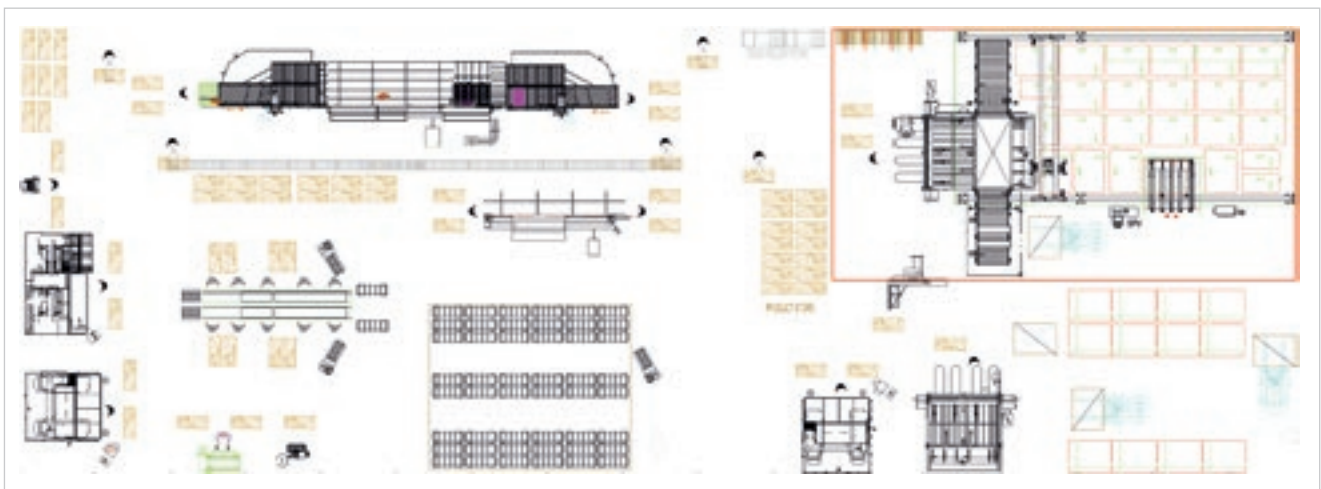


WINSTORE 3D K1

Configuration designed for high-volume manufacturers who need to respond to increasing product flexibility. On average

the Winstore K1 can handle up to **400 panels per shift** (average value for a 7 hour shift).

Above is an example of a factory where Winstore K1 was integrated into their overall production facility, for the production of a wide variety of components.



WINSTORE 3D K2

Configuration dedicated for manufacturers who require high production flexibility.

Winstore K2 can handle up to **200 panels per shift** (average value for a 7-hour shift).

Above is an example of a factory where the Winstore K2 was the starting point for the whole integrated production process.

Application fields:
on-demand production;
small-batch production;
batch one production;
production of deferent sized components;

production of low volume components;
prototype production;
production of urgent panels;
production of missing panels.

PRODUCTIVITY

WINSTORE 3D K1



WINSTORE + 2 SELCO + ROVER

WINSTORE 3D K1



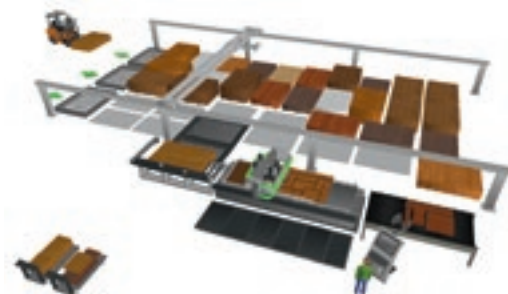
WINSTORE + SELCO + ROVER

WINSTORE X3



WINSTORE + SELCO + ROVER

WINSTORE 3D K1



WINSTORE + ROVER

WINSTORE 3D K2

FLEXIBILITY

WINSTORE X3: RELIABILITY AND TOP PERFORMANCE

Winstore X3 is designed to meet the increasingly complex needs of customers demanding optimum flexibility, top performance and easy use.

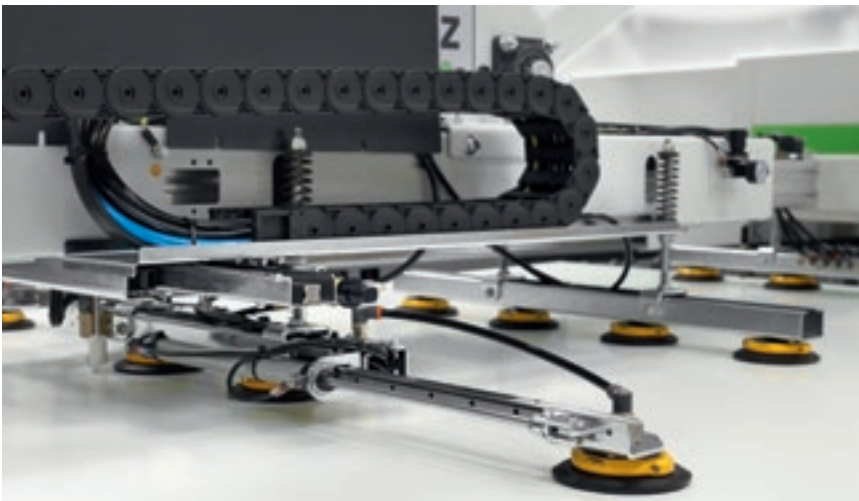


PRODUCTIVE AND COMPACT

The rigid, compact, single-piece structure can withstand exceptional dynamics and weights whilst maintaining the same degree of reliability.



Absolute encoders provide retroactive checks on every axis, to eliminate the reset phases after an emergency stop or machine restart and hence improve productivity.



The suction cup frame is fitted with two extendible suction cups that can support even the thinnest panels in line with the angle gauge check device. This avoids any read errors while the angle gauge is making the check, with the subsequent need for the operator to re-set the machine.



At the ends of the frame there are two photocells that verify the secure grip on the panel, preventing any movement of unstable panels.

MAXIMUM PANEL MOVEMENT EFFICIENCY



Air jet device for detaching breathable materials. Automatic jet adjustment in two material thickness ranges to boost detachment efficiency and machine productivity.

MAXIMUM INTEGRATION WITH MACHINING CENTRES AND PANEL SAWS



MAXIMUM OPERATOR SAFETY



LED bar showing the machine status, visible from any point to ensure better control for the operator at all times.

TOUCHSCREEN OPERATOR PANEL POSITIONED:

- ✔ On the safety barrier pole in the loading bay
- ✔ On the cell inspection gate

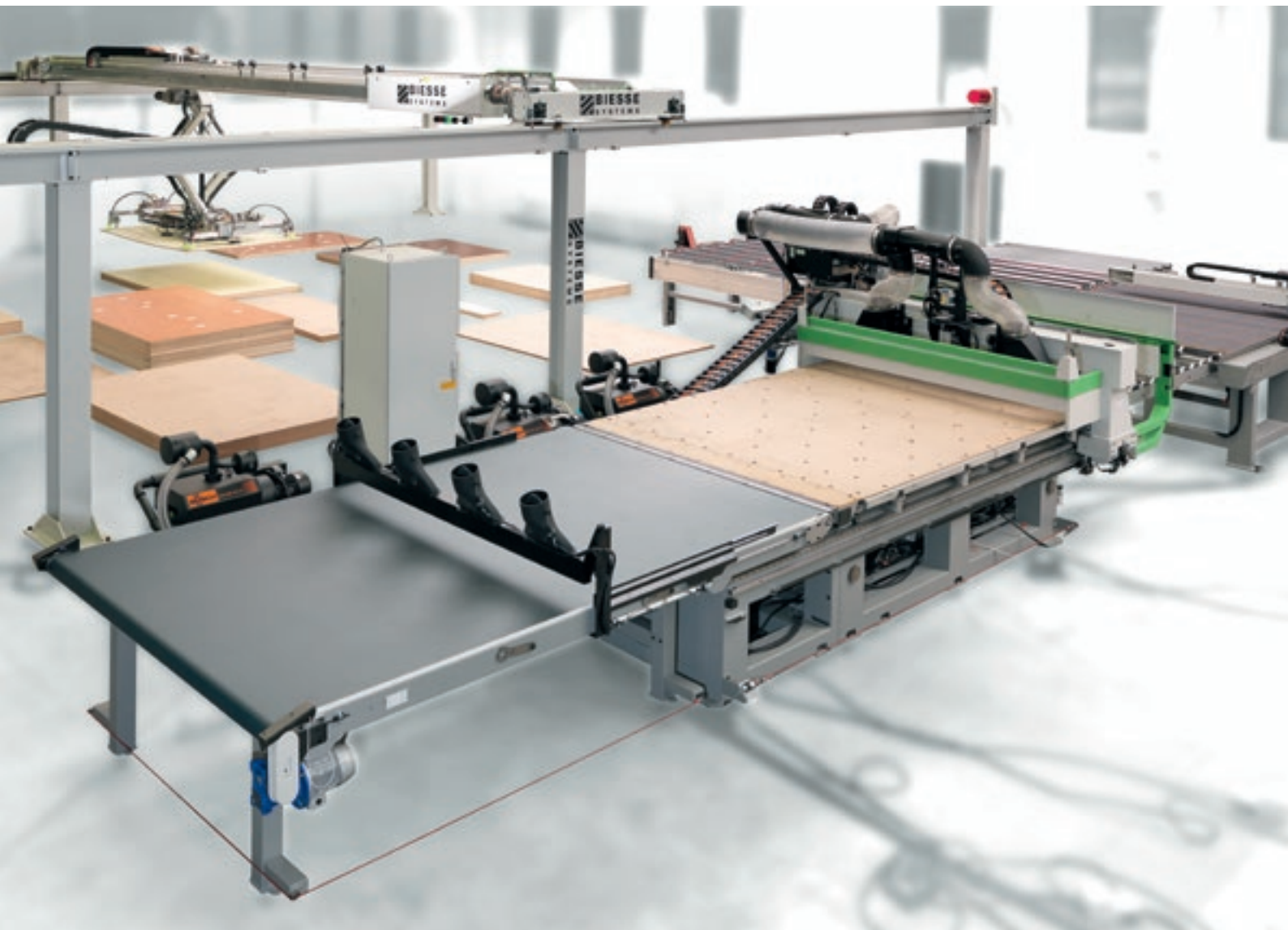


If the machine stops during machining, the operator can reset it directly from the access point without having to go to the command console.

In addition, the machine is equipped with a new PILZ safety switching box for enhanced safety component quality. Thanks to the switching box, the safety device logic can be planned at software level, offering a more flexible solution for the customer's requests.

INTEGRATION INTO THE PRODUCTION LINE

Winstore can be integrated into nesting and sizing cells with a significant increase in productivity. Thanks to the proximity and availability of the panels, it is possible to substantially increase cell productivity compared to manual loading methods using a forklift truck.



BIESSE SIZING AND NESTING SOLUTIONS



Rover B FT is the new NC processing centre with a gantry structure and FT work table not only for the nesting of panels but also for small doors, furniture components and frames for sofas.



WN is a range of high-performance, single-line sizing machines that has been designed and produced to meet the requirements of large furniture manufacturers.



SLICK AND EFFICIENT PRODUCTION FLOW





DESIGN OF INTEGRATED LINES OVER 100 METRES LONG

BiesseSystems provides a full project consultancy and management service to companies who wish to implement integrated technology solutions for their manufacturing processes.

A team of sector experts, capable of understanding and anticipating company needs, work with the customer from inception through to system installation and commissioning.

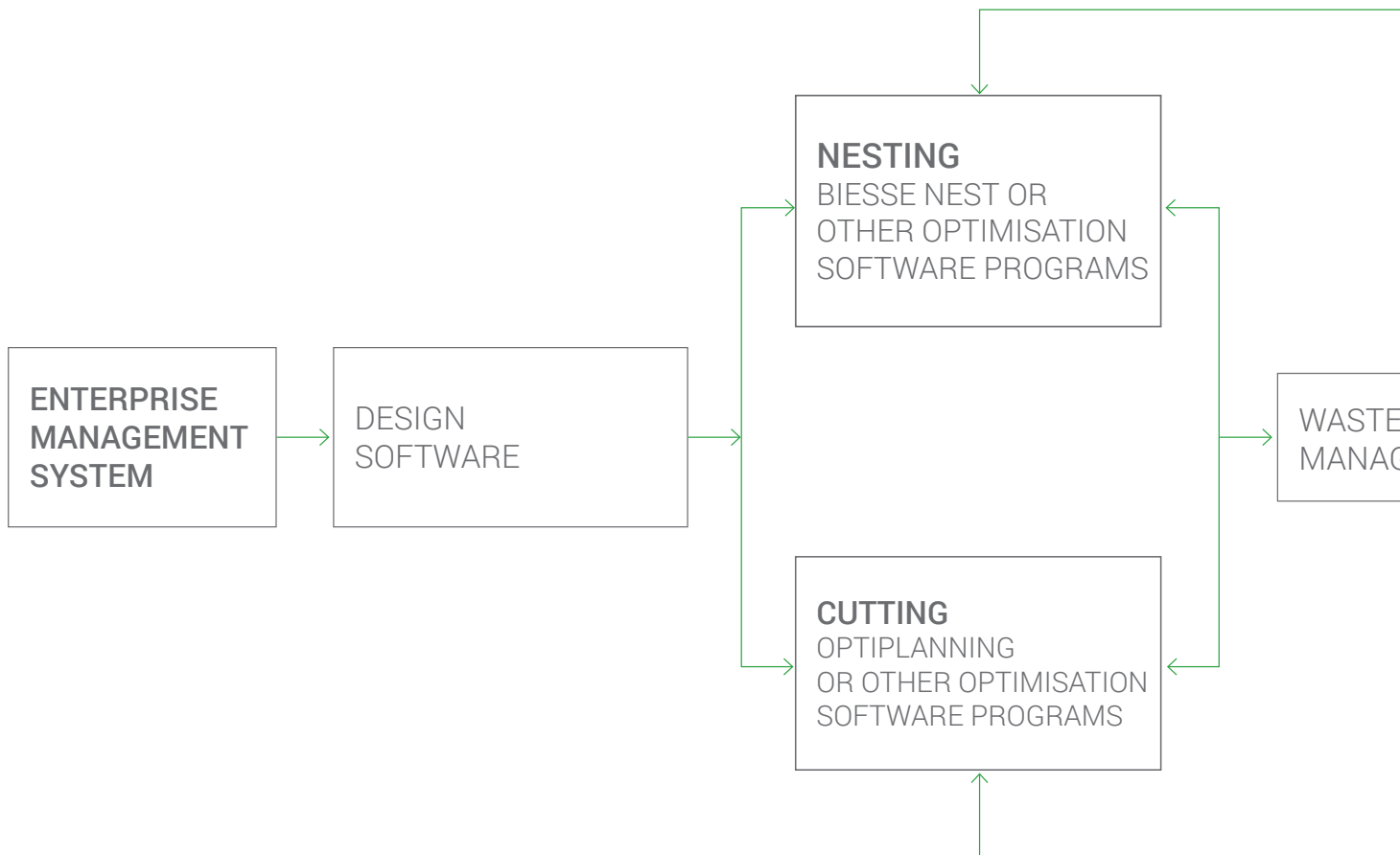
OVER 1000 SYSTEMS SOLD WORLDWIDE

- ✔ Design and installation of turn-key systems.
- ✔ Design and installation of automated and integrated production lines.
- ✔ Upgrading, refurbishment and integration of pre-existing production systems.

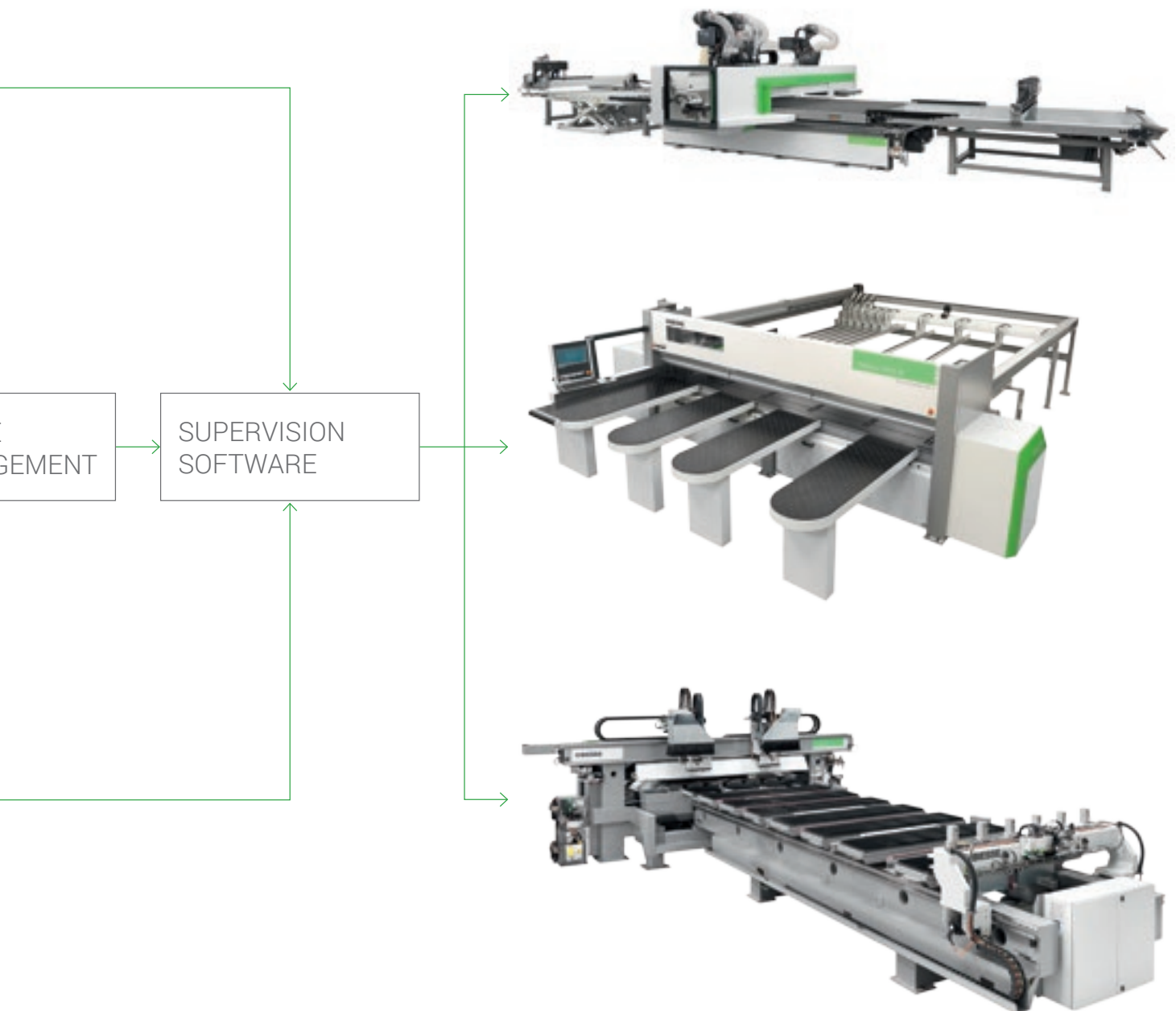
INTEGRATION OF INFORMATION FLOW

SUPERVISION SOFTWARE.

Biesse supplies an integrated software program for the management (handling, identification and labelling) of panels to be processed, as well as waste material and off-cuts which can be recycled for new products.



FULL INTEGRATION OF CELL SOFTWARE WITH
PLANT ENTERPRISE MANAGEMENT SYSTEM.



SOPHIA

GREATER VALUE FROM MACHINES



SOPHIA is the IoT platform created by Biesse in collaboration with Accenture which enables its customers to access a wide range of services to streamline and rationalise their work management processes.

It allows alerts and indicators to be sent to the customer in real time, in relation to production, the machines used and the type of process carried out. These are detailed instructions for more efficient use of the machine.

□ **10% CUT IN COSTS**

□ **50% REDUCTION
IN MACHINE DOWNTIME**

□ **10% INCREASE
IN PRODUCTIVITY**

□ **80% REDUCTION IN PROBLEM
DIAGNOSTICS TIME**

**SOPHIA TAKES THE INTERACTION BETWEEN
CUSTOMER AND SERVICE TO A HIGHER LEVEL.**

iOT
SOPHIA

IoT - SOPHIA provides a comprehensive overview of the specific machine performance features, with remote diagnostics, machine stoppage analysis and fault prevention. The service includes a continuous connection with the control centre, the option of calling for assistance from within the customer app (such calls are managed as priorities), and an inspection visit for diagnostic and performance testing within the warranty period. Through SOPHIA, the customer receives priority technical assistance.

PARTS
SOPHIA

PARTS SOPHIA is the easy new, user-friendly and personalised tool for ordering Biesse spare parts. The portal offers customers, dealers and branches the chance to navigate within a personalised account, consult the constantly updated documentation of the machines purchased, and create a spare parts purchase basket indicating the real time availability in the warehouse and the relative price list. In addition, the progress of the order can be monitored at all times.

 **BIESSE**

in collaboration with  **accenture**

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

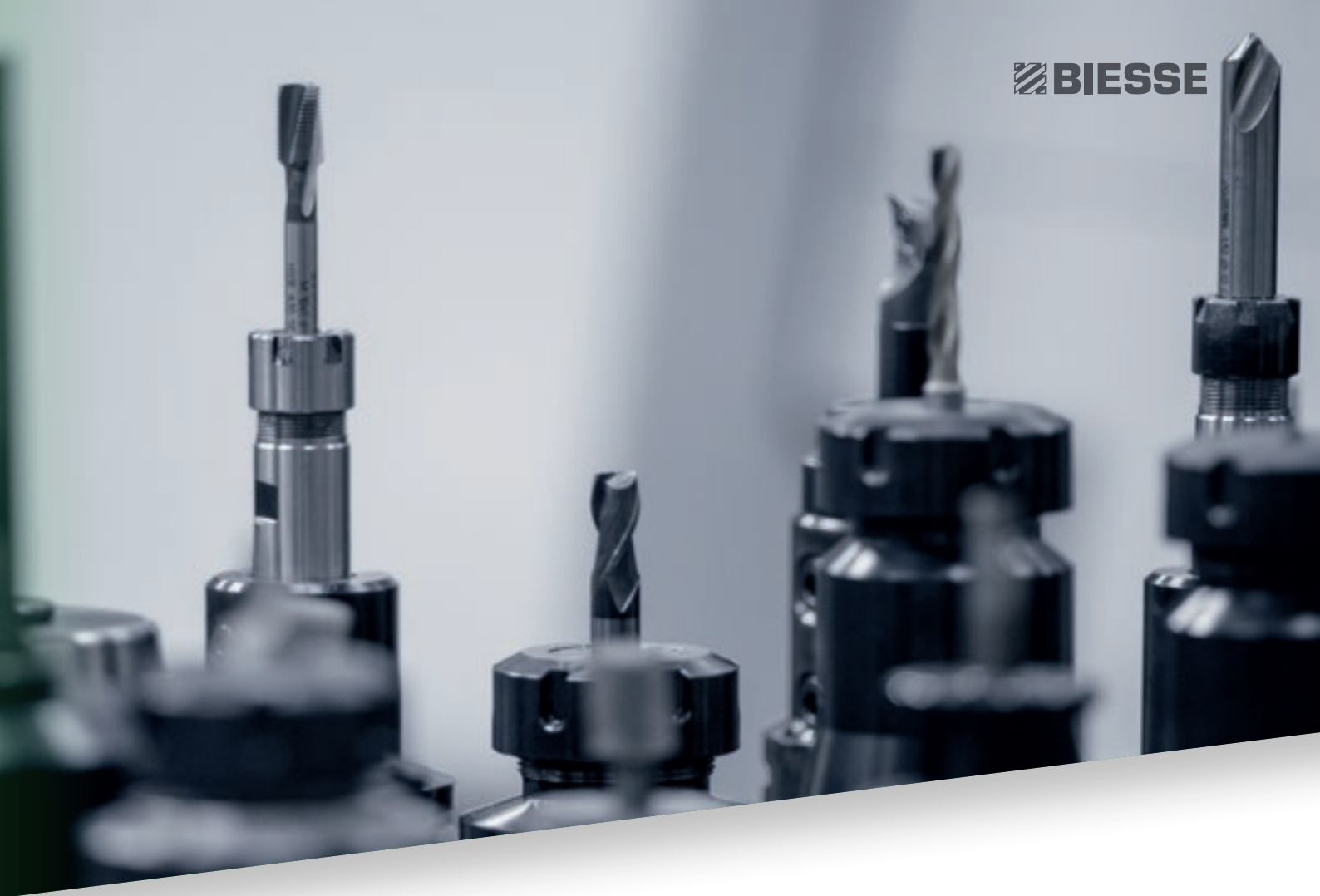
Biesse engineers manning a Teleservice Centre.

550

certified Dealer engineers.

120

training courses in a variety of languages every year.

A close-up photograph of several metal drill bits and tool components, arranged in a row. The bits are of different sizes and designs, some with standard double-flute and others with more complex, multi-fluted designs. They are set against a blurred background, highlighting their metallic texture and sharp edges.

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

THE BIESSE GROUP'S 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 "turnkey" 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.

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LIVE THE EXPERIENCE

BIESSEGROUP.COM



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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