

SELCO WN 2

NUMERICAL CONTROL
BEAM SAWS

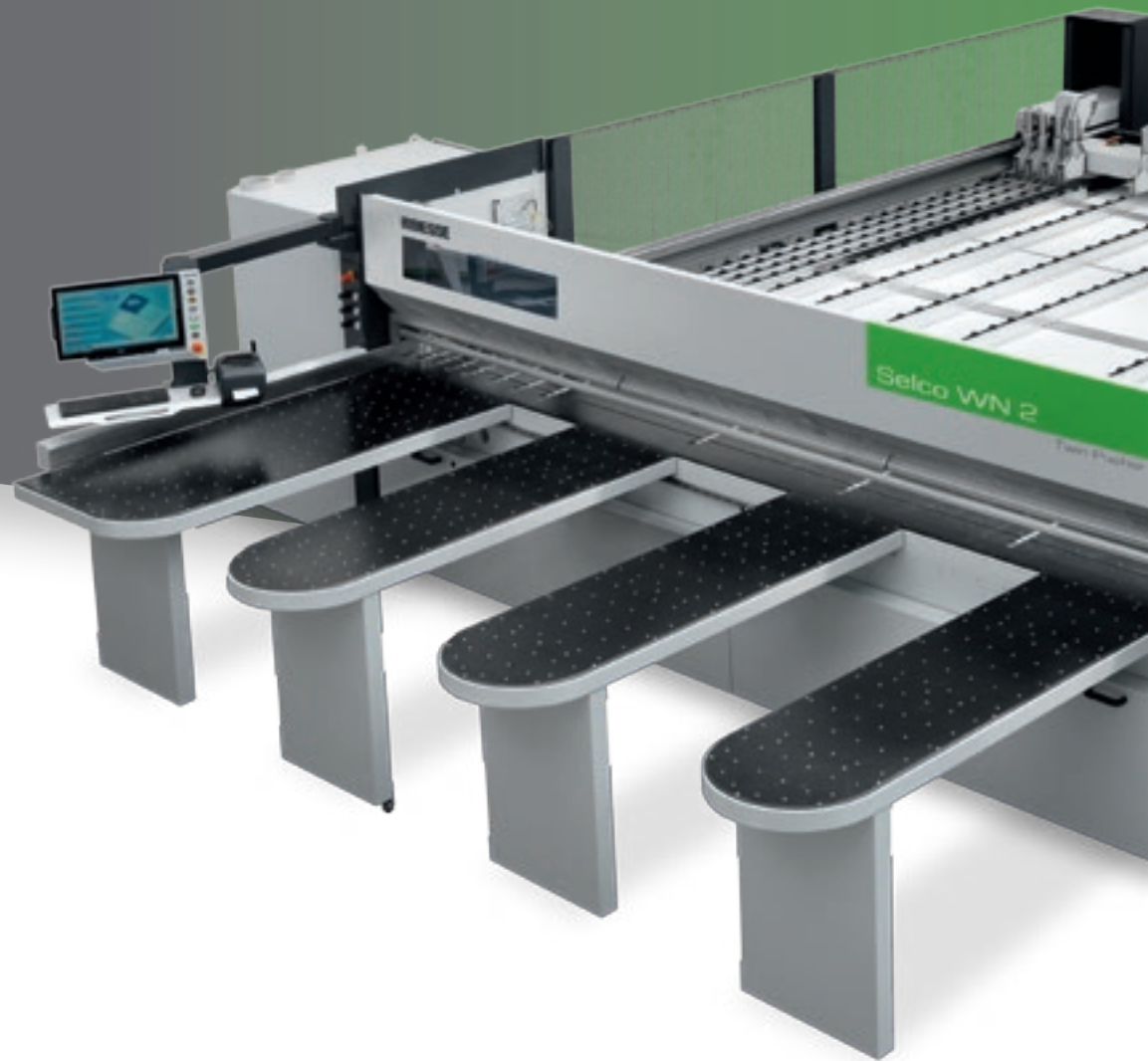


 **BIESSE**

YEARS


 **BIESSE GROUP**

SECURE INVESTMENT FOR FUTURE GROWTH AND EXPANSION



THE MARKET DEMANDS

a change in manufacturing processes that enables companies to accept the largest possible number of orders. This is coupled with the need to maintain high quality standards whilst offering product customisation with quick and defined delivery times.

BIESSE MEETS

with technological solutions that enhance and support technical expertise as well as a knowledge of processes and materials. **SELCO WN2** is a cutting centre for the small business that decides to make a first investment to improve production and machining quality by passing from conventional manual machinery to real cutting technology which is reliable and easy to use at a low cost.



SELCO WN 2

- ✓ CUTTING PRECISION AND QUALITY
- ✓ RELIABLE TECHNOLOGY BASED ON EXPERIENCE GAINED WITH SUPERIOR RANGES
- ✓ SIMPLE, QUICK TOOLING AND ADJUSTMENT
- ✓ EASY TO USE, WITH OPTIMISED MACHINING OPERATIONS.

CUTTING PRECISION AND QUALITY

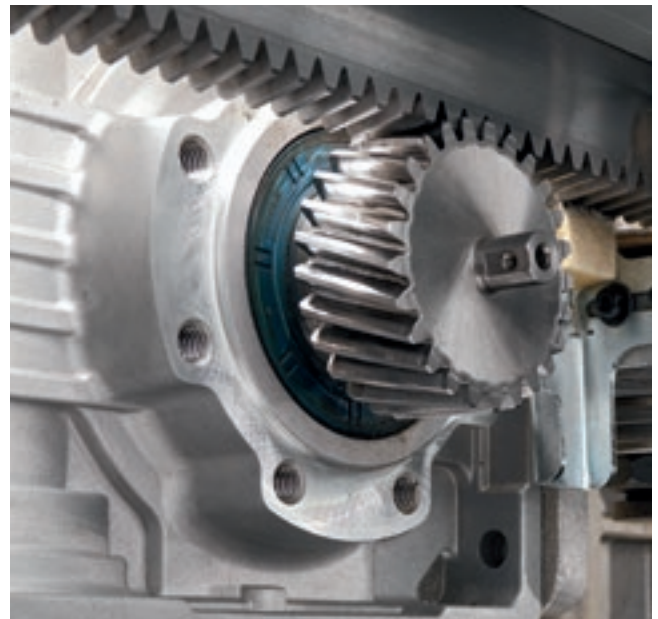
Robust, balanced structure ensuring maximum stability. Specially-designed technologies to guarantee precision and rigidity.



The presser has a structure that guarantees consistent, controlled pressure on the book of panels to be cut.

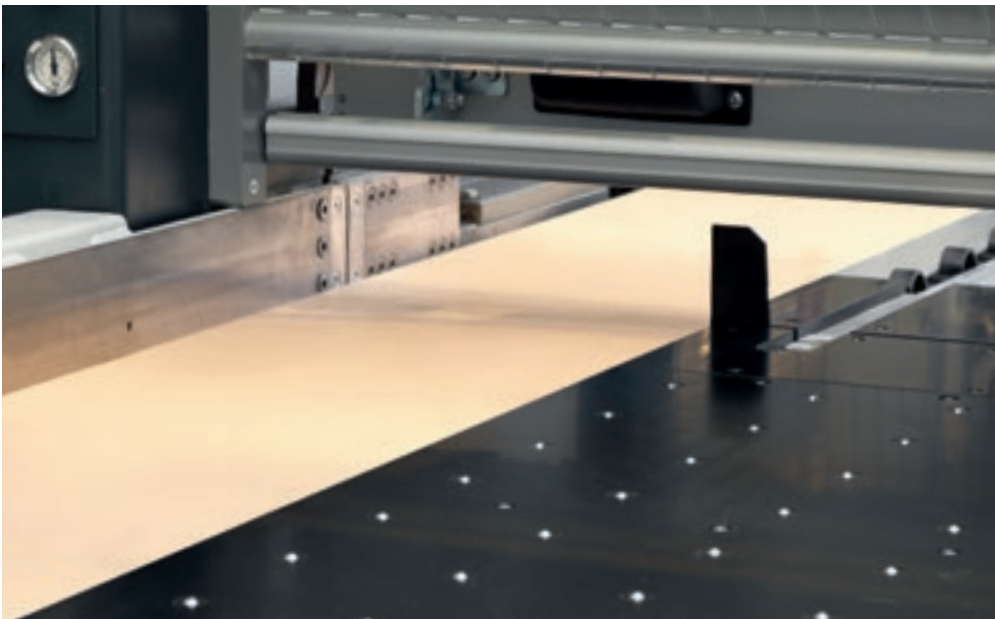
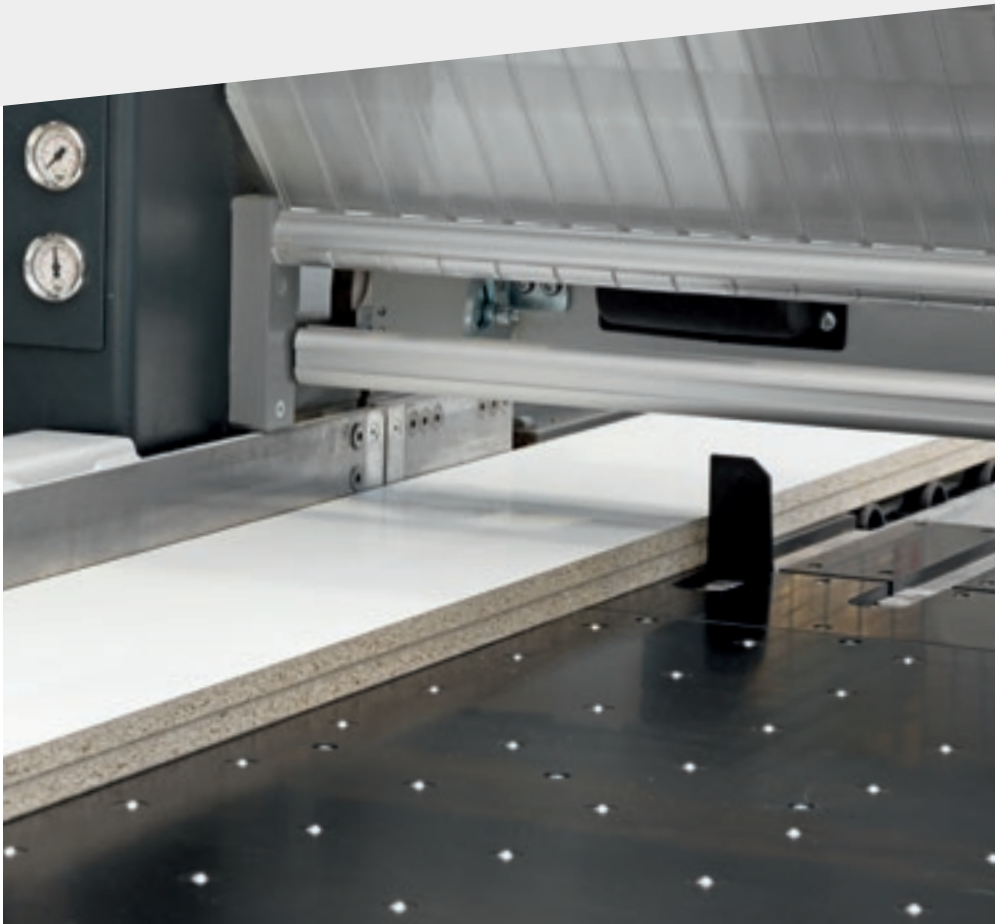


Precise, quick positioning of panels for maximum cutting precision thanks to the sturdy pushing carriage. The self-levelling, independent grippers ensure that the panels are firmly locked in place, and allow for the full expulsion of sectioned stacks from the cutting line.



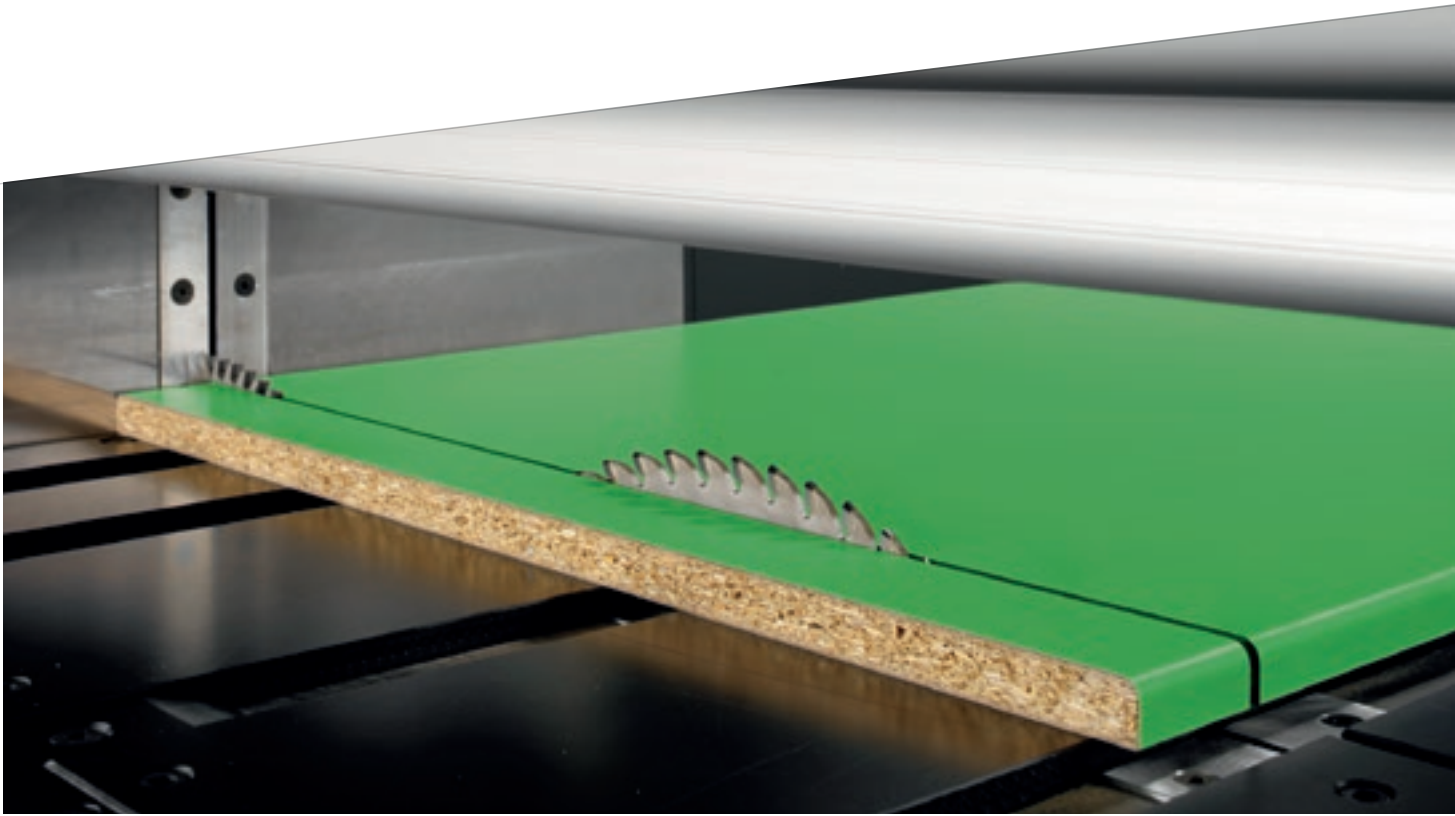
The helical geometry of the rack and pinion system ensures linear vibration-free movement of the blade carriage in all working conditions.

UNIQUE TECHNICAL SOLUTIONS ON THE MARKET,
TO SATISFY EVEN THE MOST RIGOROUS PRODUCTION
DEMANDS, IN TERMS OF BOTH PRECISION
AND FLEXIBILITY.



Perfect alignment of very thin and/or flexible panels.

TECHNOLOGICAL SOLUTIONS FOR EVERY MACHINING NEED

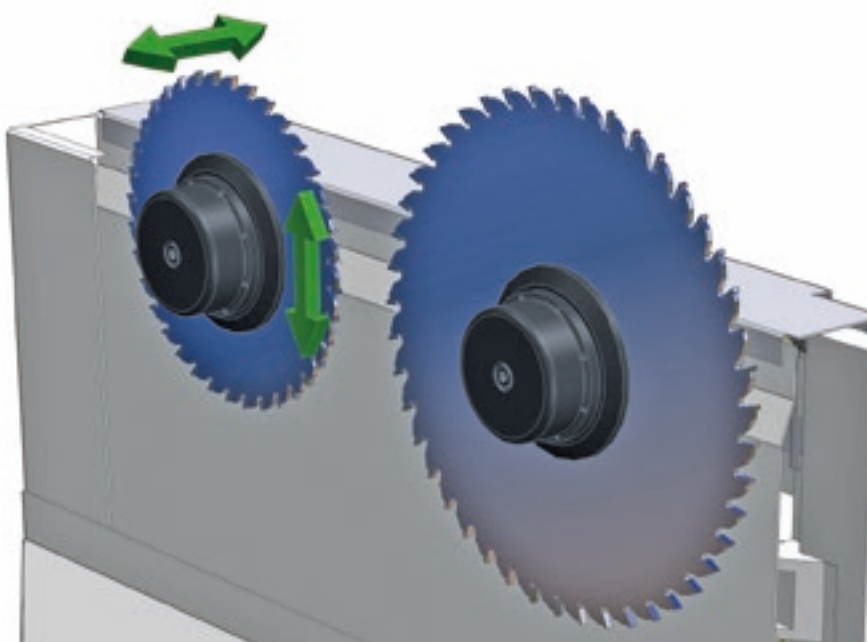


PFS function, available on Selco WN 250 machine, for making cuts on soft and post-formed panels. A special NC program that ensures the perfect finish of both the entrance point and the exit profile, preventing any splintering of fragile, delicate materials (patented).



System for the automatic execution of grooves, the width of which can be programmed via the numerical control. The groove depth can be adjusted manually from the outside of the machine and with the blades moving.

SIMPLE, QUICK TOOLING AND ADJUSTMENT



The Quick change system, patented by Biesse, is the quickest, safest and most ergonomic device for replacing blades without using specific tools.



Fast, accurate setting of the scoring and main blades, using Digiset system. The system also stores the information for each set of blades, ensuring repeatable and accurate alignment every time.

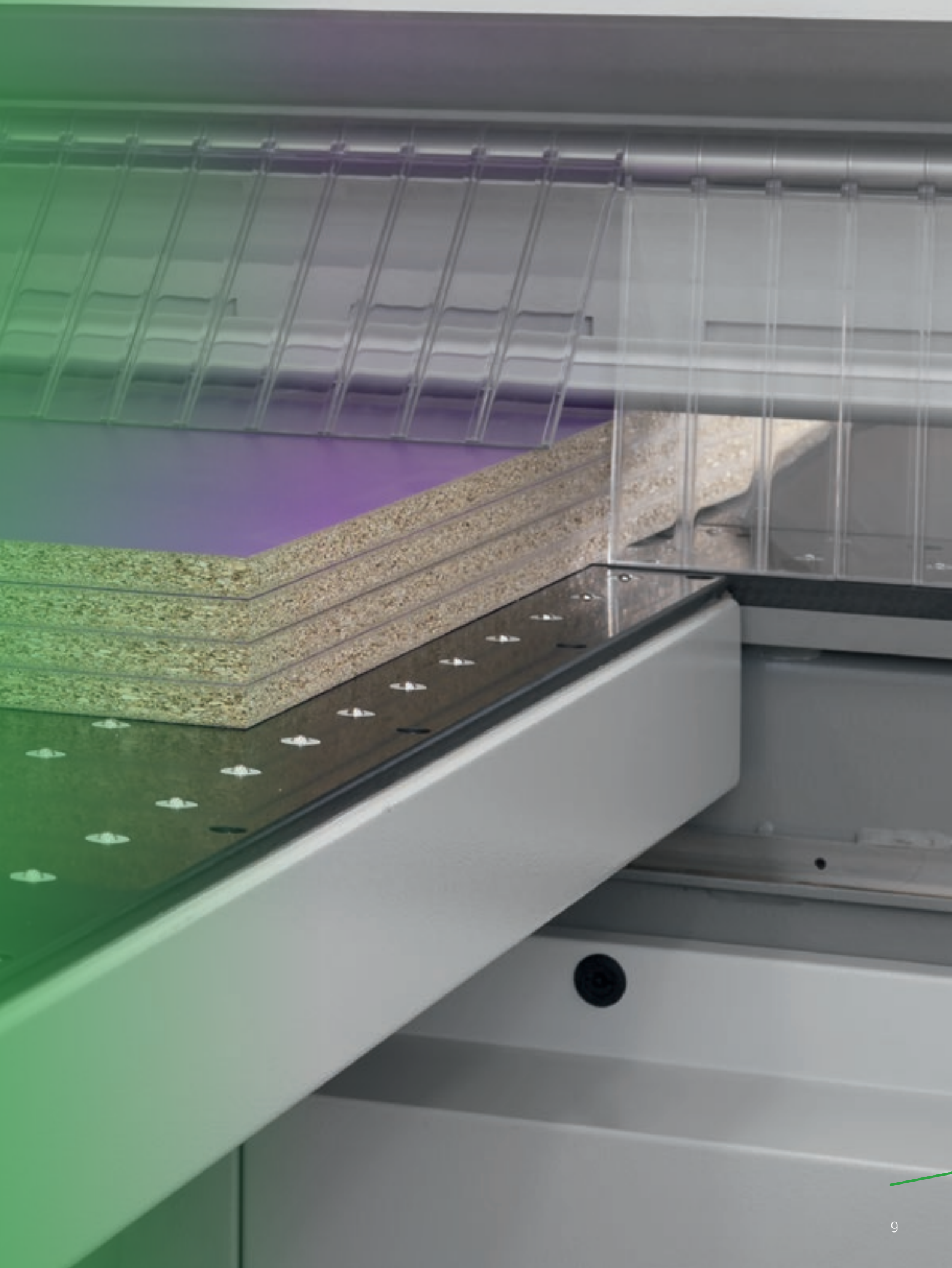
**RELIABLE TECHNOLOGY BASED ON EXPERIENCE
GAINED WITH HIGHER RANGES.**

TWIN PUSH ER

TWO BEAM SAWS IN ONE

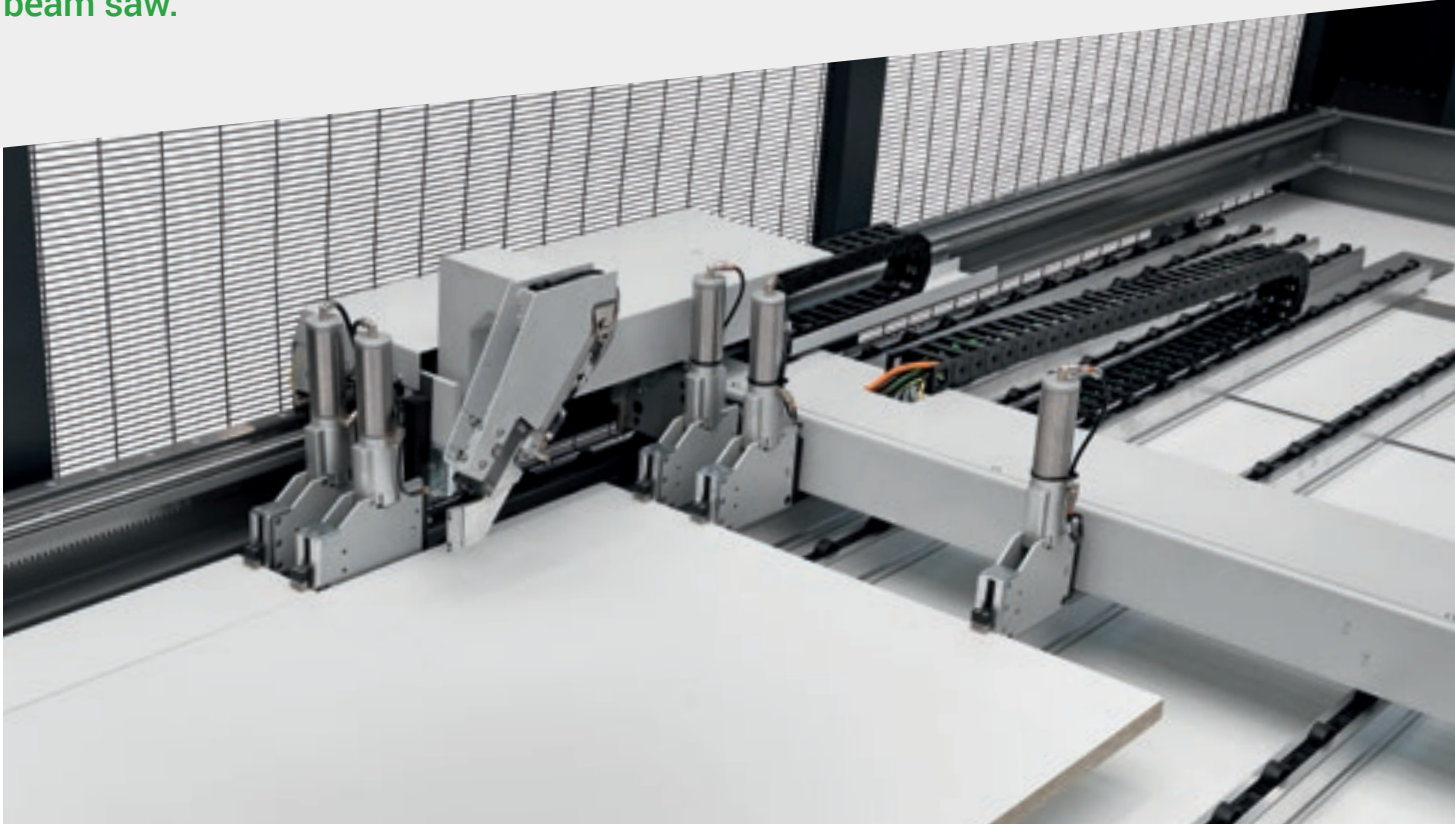
The Twin Pusher, an exclusive patent for all Biesse beam saws, consists of two complementary pushing devices. An additional stop allows independent cutting of strips of up to 650 mm wide.

Increased productivity by up to 25%, optimum management of production efficiencies and a ROI within the first year.



PRODUCTIVITY INCREASE OF UP TO 25%

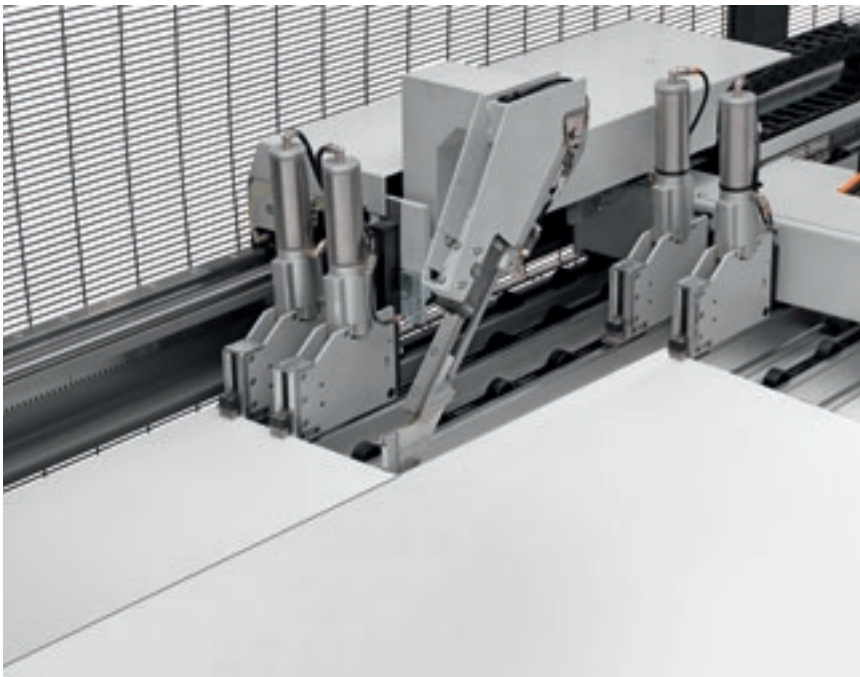
SELCO WN 250. Two cutting stations on a single
beam saw.

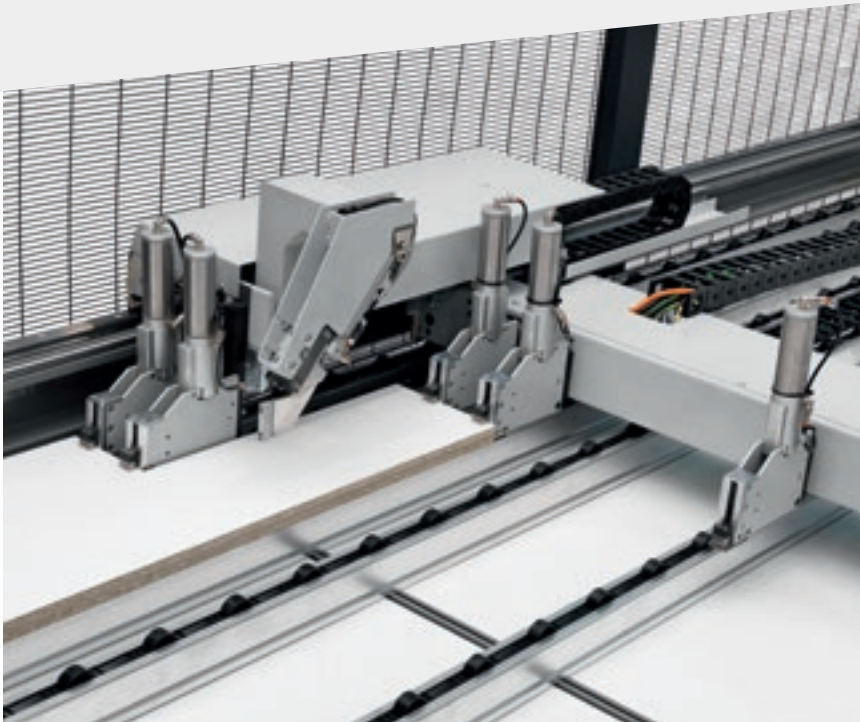


The Twin Pusher system offers an additional pushing device consisting of two fixed collets. It permits simultaneous cutting, which drastically reduces the cycle time.



Differentiated cross cut.

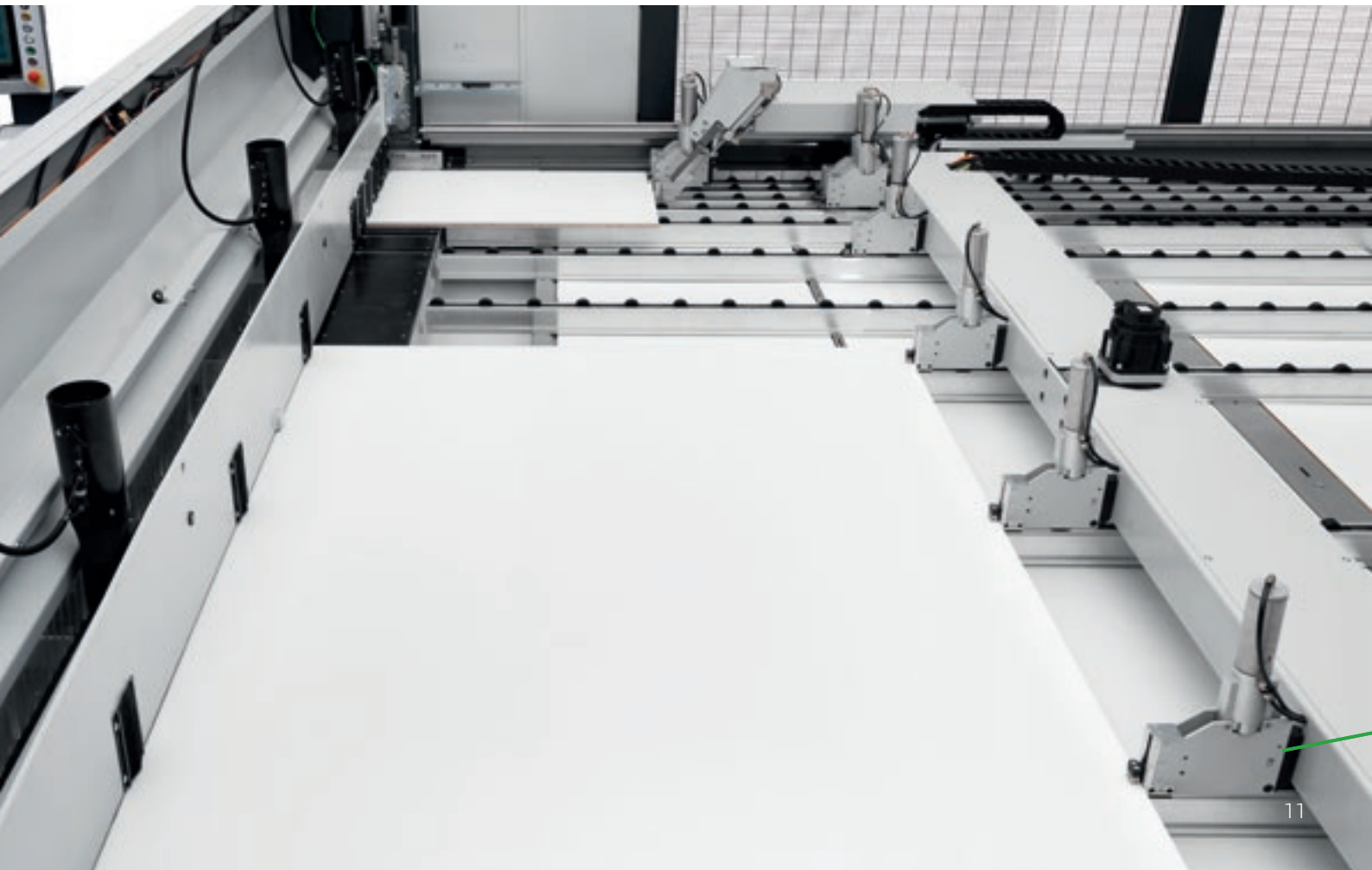




Differentiated cross cut for narrow strips.



Rip and cross-cuts are performed at the same time. An additional stop allows independent cutting of strips of up to 650 mm wide.



REDUCED PANEL LOADING TIMES



The compact, integrated lifting table allows for packs of panels of up to 630 mm to be loaded directly onto the steel profiles. The lifting table can also be installed as an option.



The grippers automatically pick up the required amount of panels according to the working programme underway, increasing the efficiency and safety of the beam saw without affecting the compact overall dimensions.

PIECE IDENTIFICATION AND INTERLOCKING



Labelling

A special software creates individual labels and prints them in real time, on the machine.



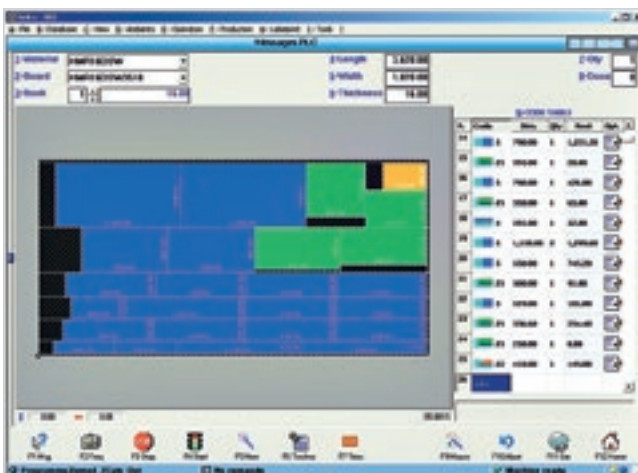
Barcode scanner

Device for automatically accessing machine operation patterns, for automated management of the remaining reusable cut material.



EASY TO USE, WITH OPTIMISED MACHINING OPERATIONS

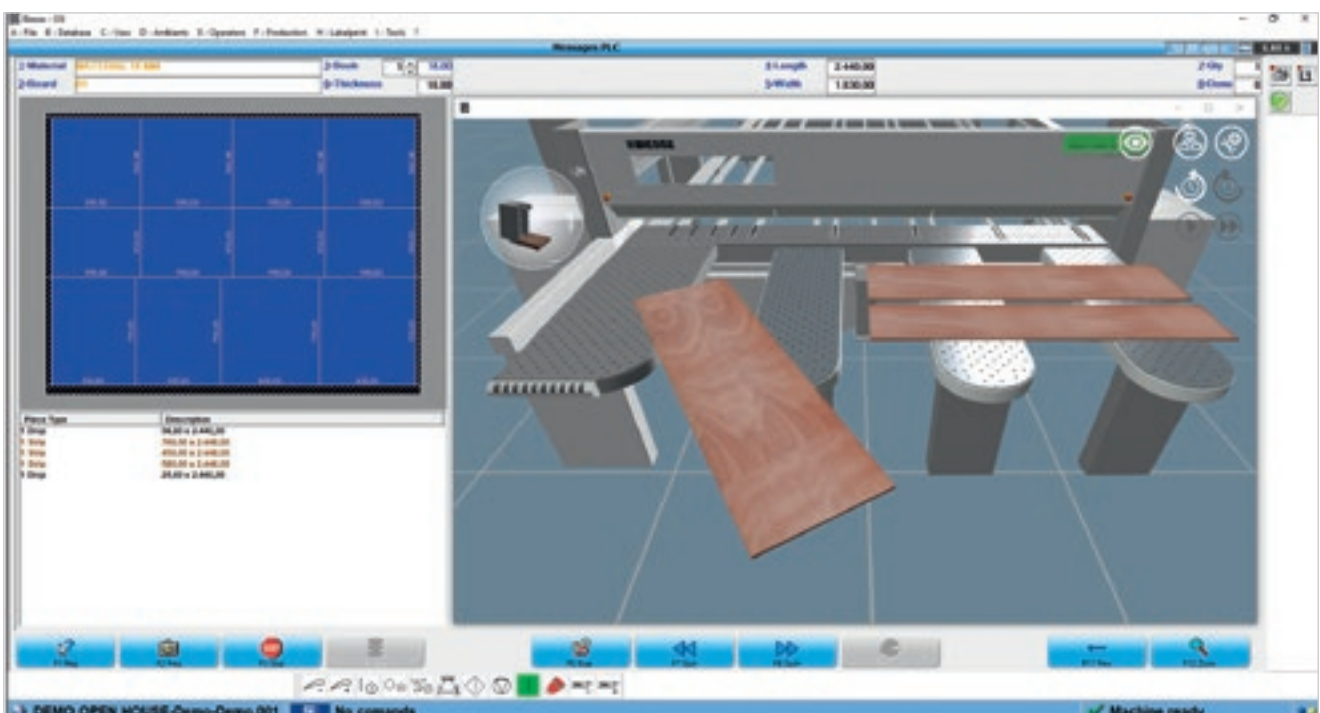
The OSI (Open Selco Interface) numerical control guarantees the management of the execution of cutting patterns, and optimizes all movements relative to controlled axis (i.e. Pusher and Saw Carriage, pressure beam, blade height). It ensures the blade protrudes from the book to the correct degree during sectioning, and calculates the most suitable cutting speed on the basis of the book height and trim cut width. It helps ensure the best cutting quality at all times.



Easy cutting pattern programming.

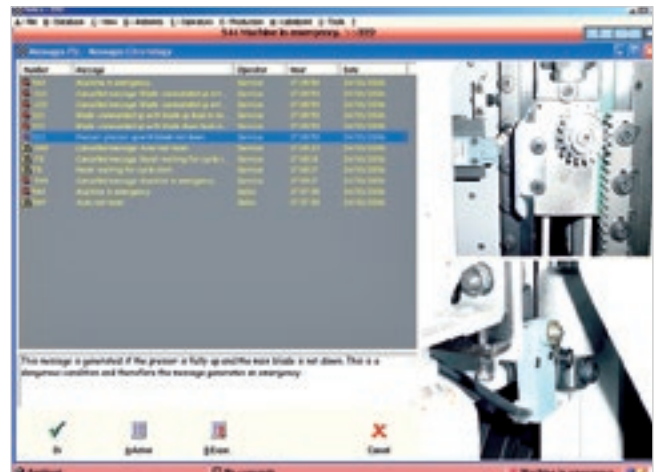


Graphic simulation in real time, with messages and information for the operator.

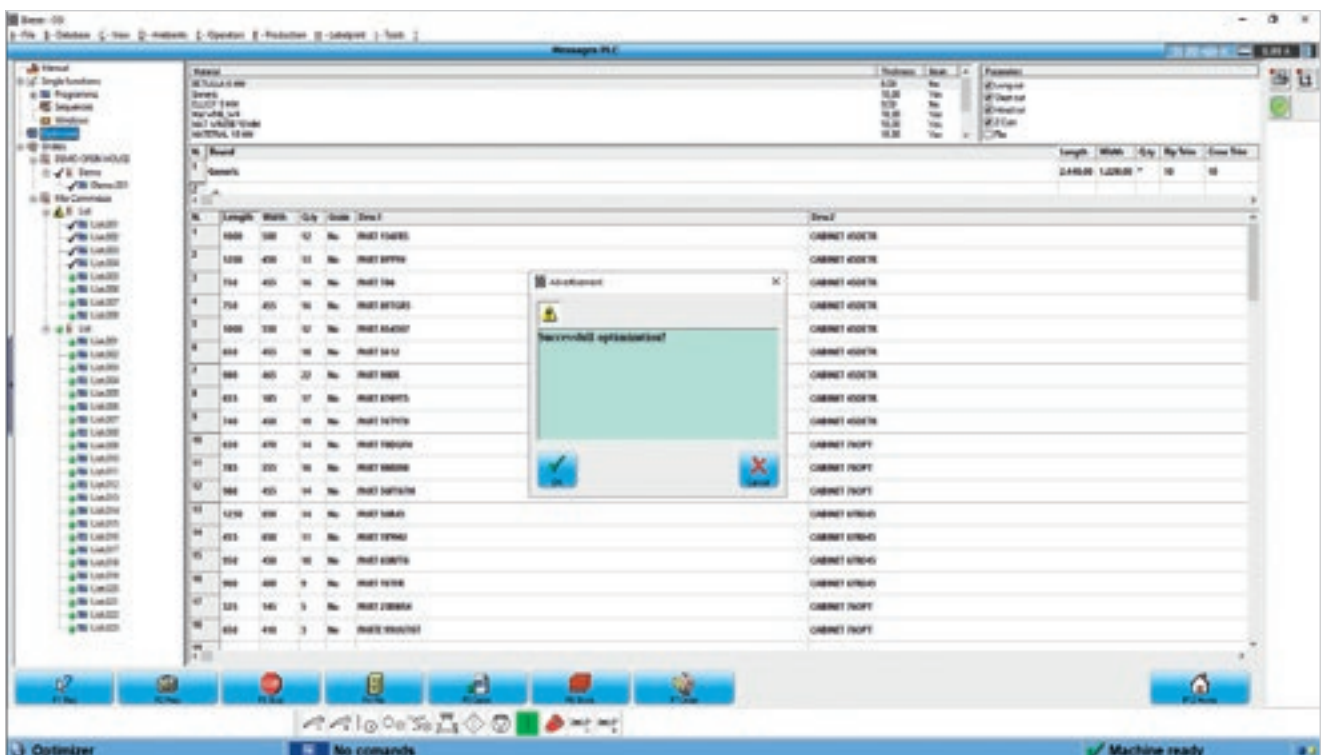




Interactive program for the quick, easy execution of cuts and grooves, even on recycled panels.



An effective diagnosis and troubleshooting program provides complete information (photos and text) to ensure that any problems are quickly resolved.



Quick Opti

Simple, intuitive software for optimising the cutting patterns directly on the machine.*

SOFTWARE FOR THE SMART, ASSISTED MANAGEMENT OF CUTTING PATTERNS



OPTIPLANNING IS THE SOFTWARE FOR OPTIMISING CUTTING PATTERNS, DEVELOPED ENTIRELY BY BIESSE. BASED ON THE LIST OF PIECES TO BE PRODUCED AND THE PANELS AVAILABLE, IT CAN CALCULATE THE BEST SOLUTION TO MINIMISE MATERIAL CONSUMPTION, SECTIONING TIMES AND PRODUCTION COSTS.

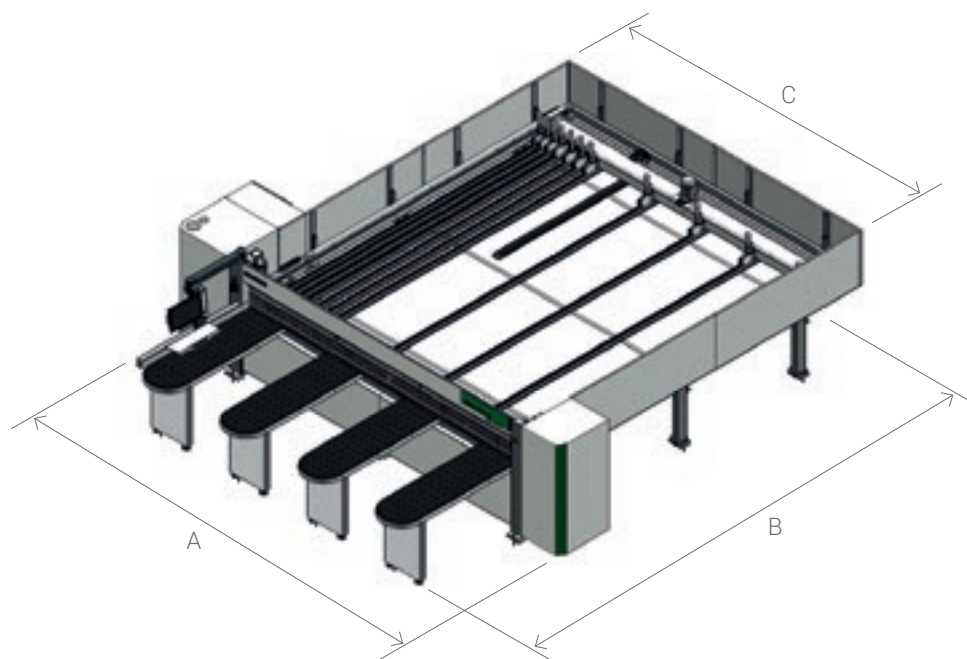


- Simple, user-friendly interface.
- Excellent reliability of the calculation algorithms for production batches in small and large companies.
- Automatic import of the cutting list generated by the software for the design of furniture items and/or ERP management systems.

OPTIPLANNING



TECHNICAL SPECIFICATIONS

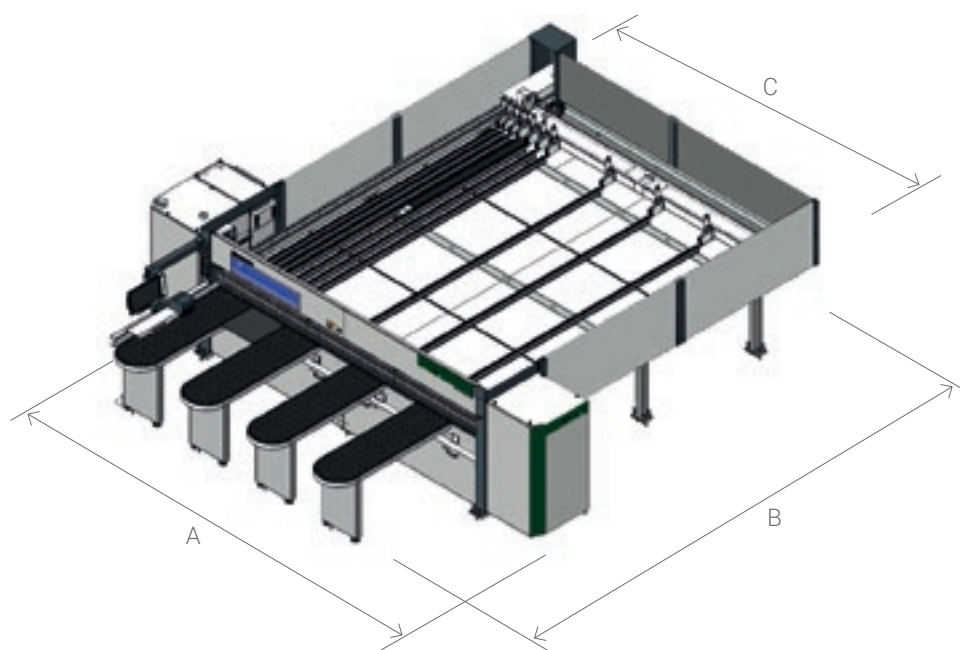


SELCO WN 230		3200x2500	3200x3200	4500x2500	4500x3200	4500x4500
A	mm/inch	5200/205	5200/205	6500/256	6500/256	6500/256
B	mm/inch	5600/220	6300/248	5600/220	6300/248	7600/299
C	mm/inch	3750/148	3750/148	5050/199	5050/199	5050/199

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 surface sound pressure level (Lp_{fA}) during machining for operator workstation L_{pa}=83dB(A) L_{wa}=106dB(A) A-weighted sound-pressure level (LpA) for operator workstation and sound power level (L_{wA}) during machining L_{wa}=83dB(A) L_{wa}=106dB(A) K measurement uncertainty dB(A) 4.

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.



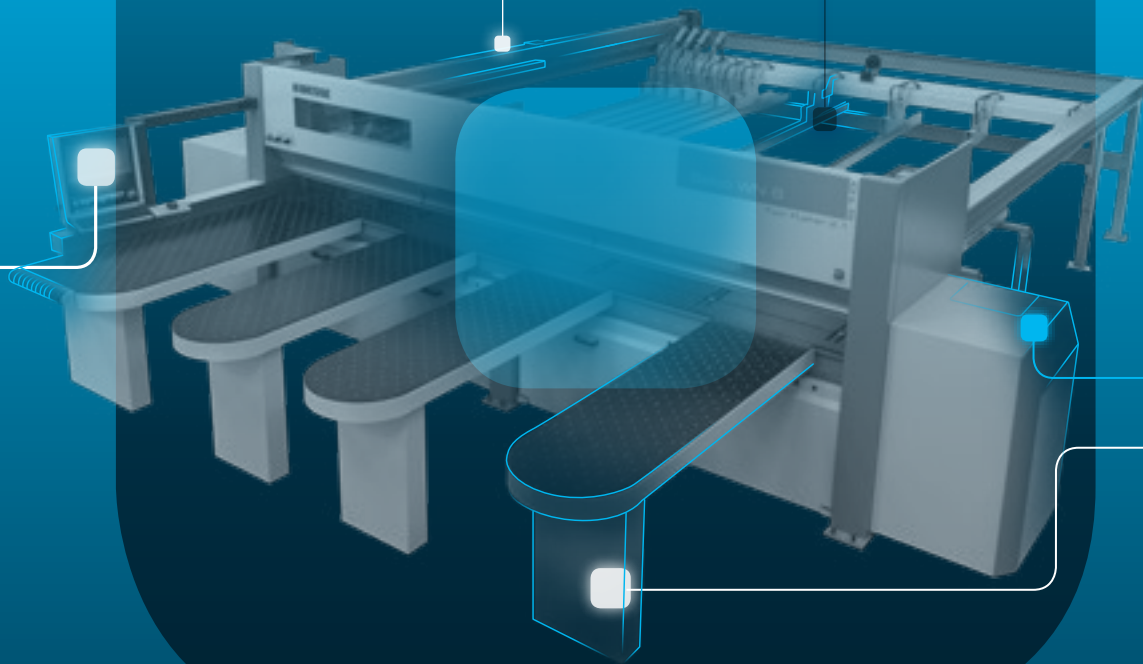
SELCO WN 250		3200x3200	3800x3200	3800x3800	4500x4500
A	mm/inch	5500/216	6100/240	6100/240	6800/268
B*	mm/inch	6300/248	6300/248	6900/272	7600/299
C	mm/inch	3700/146	4300/169	4300/169	5000/197

* In the case of the Twin Pusher, + 350 mm / 14 inch.

		SELCO WN 230	SELCO WN 250
Maximum blade protrusion	mm/inch	60/2	80/3
Main blade motor	kW	5,5	7,5
Blade carriage drive		asynchronous motor	brushless
Blade carriage speed	m/min	1 - 80	1 - 100
Brushless pushing device drive		asynchronous motor	brushless
Pushing device speed	m/min	60	80

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 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 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.



SERV ICE & 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

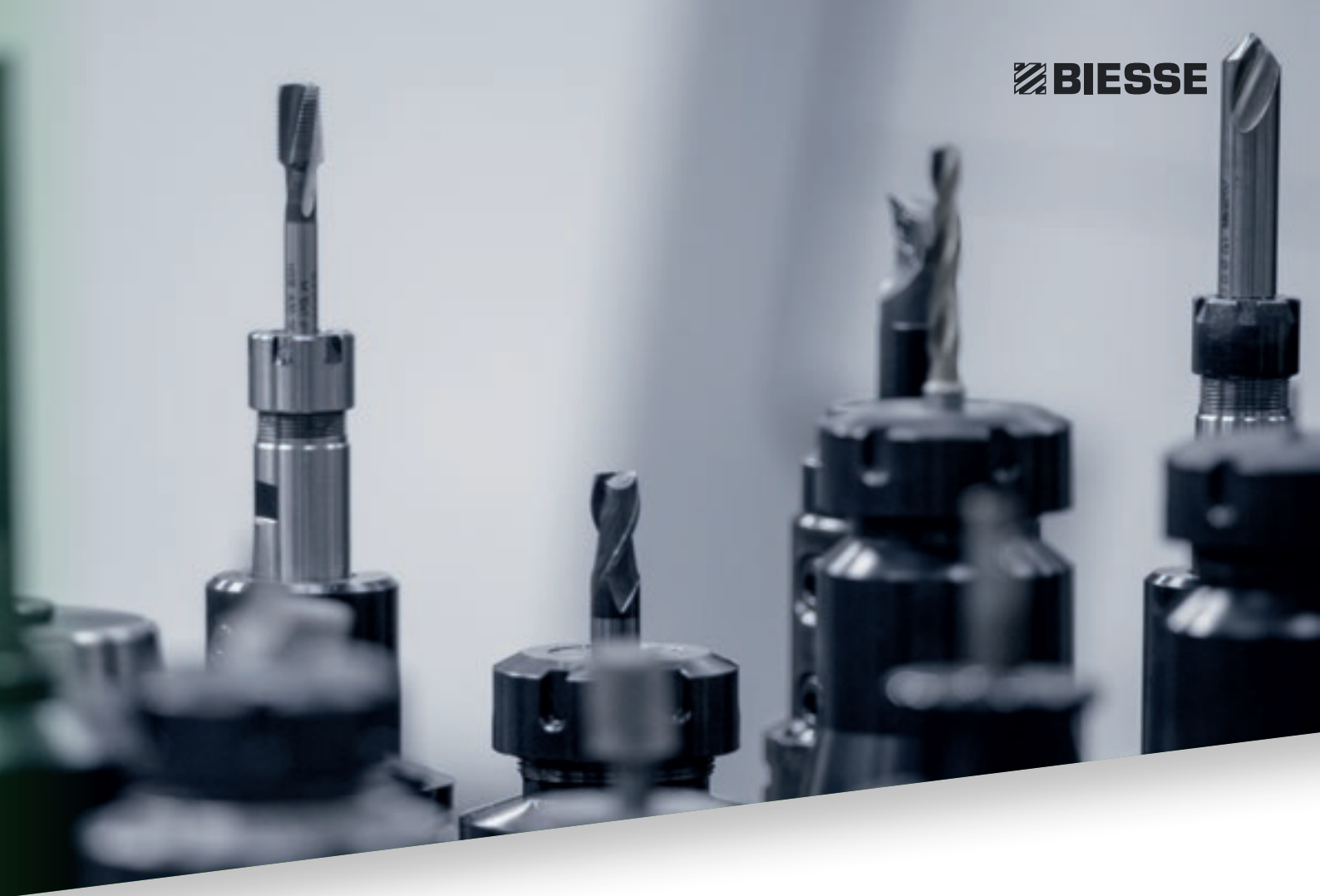
Biesse engineers manning a Teleservice Centre.

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.

MADE WITH BIESSE

BIESSE TECHNOLOGY ACCOMPANIES THE GROWTH OF STECHERT

"On these chairs sits the world" is the motto of the Stechert Group that can effectively be taken literally. What began 60 years ago as a small manufacturing company for pram mouldings, furniture doors and door locks is today one of the largest international suppliers of contract and office chairs, as well as tubular steel furniture. Moreover, since 2011 the company has a partnership with WRK GmbH, an international specialist in podiums, conference room and grandstand seating, associated with Stechert via the joint commercial company STW. For Stechert management, however, the excellent results obtained are no excuse for resting on their laurels. On the contrary, the company is investing heavily in the Trautskirchen site to make its production even more efficient and profitable. In the search for a new machinery partner, the company's management chose the Italian manufacturer Biesse. "For the project we chose machines that already had certain options and were predisposed for automation", said Roland Palm, Biesse Area

Manager. An efficient production cycle was created in which workers are able to perform at their best after only a short training period. At the start of the production line is the panel saw "WNT 710" with one cutting line. "Because", explained skilled cabinet maker Martin Rauscher, "we want to be able to work panels of up to 5.90 metres in order to reduce waste as much as possible." Normal rectangular panels for tables or wall panels are taken directly to the "Stream" edgebander with "AirForceSystem" technology. The Biesse edgebander has a group that activates the laminated edging material no longer via a laser beam but using hot air to obtain the so-called "zero gap". "The quality is just as good as the laser system, if not even better: with a connection power of 7.5 kW, the cost per square metre is much lower", underlined the Biesse Area Manager.

"We want to be ready for when we mould the frame ourselves and we must therefore calibrate the panels" said Martin Rauscher, "The same is true of course for solid wood

and multiplex panels, which require grinding before being painted in an external company. For both types of work a Biesse "S1" sander is used. In order to meet the needs of the future, in the Trautskirchen plant there are also two Biesse numerically controlled machining centres: a "Rover C 965 Edge" and a "Rover A 1332 R", which are perfectly complementary. The Stechert Group also intends to strengthen sales of innovative solutions for interior fittings, with complete systems for walls, ceilings, floors and mezzanines. For panel sectioning, the Group has purchased a "Sektor 470". For other geometry, groove and spring machining as well as boring and surface milling, there are two Biesse machining centres, an "Arrow" for nesting applications, a "Rover B 440" and more recently a 5-axis machine, the "Rover C 940 R" machining centre in order to be able to produce, in particular, wall and ceiling panels machined in 3 dimensions.

Source: HK 2/2014



THE BIESSE SIZING RANGE

FLEXIBLE CUTTING



NEXTSTEP



SELCO WN 6 ROS

SINGLE-LINE BEAM SAWS



SELCO WN 2



SELCO SK 3



SELCO SK 4

SINGLE-LINE BEAM SAWS



SELCO WN 6



SELCO WN 7

CUT TO SIZE ANGULAR PLANTS



SELCO WNA 6

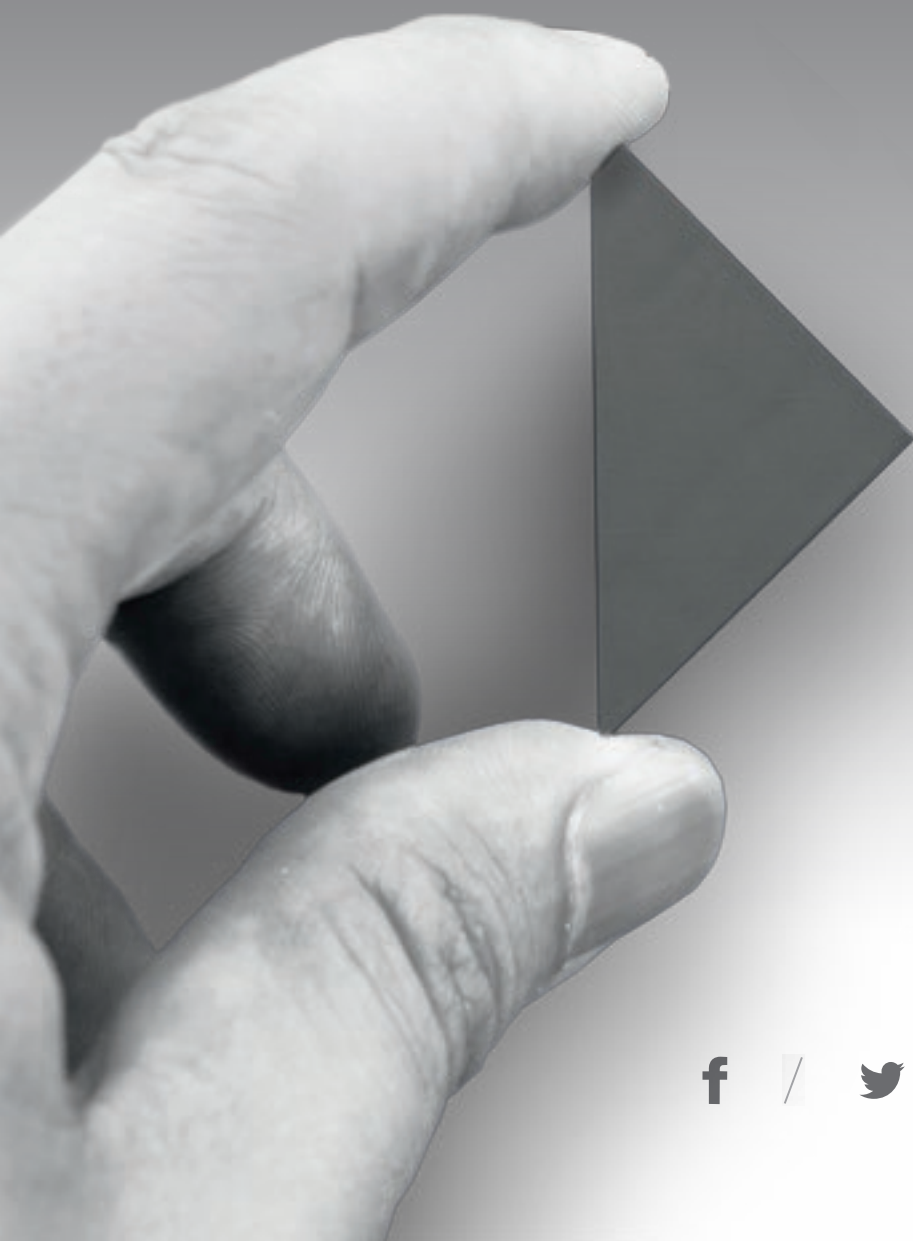


SELCO WNA 7



Selco WNA 8

LIVE THE EXPERIENCE



BIESSEGROUP.COM

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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.**

 **BIESSEGROUP**

