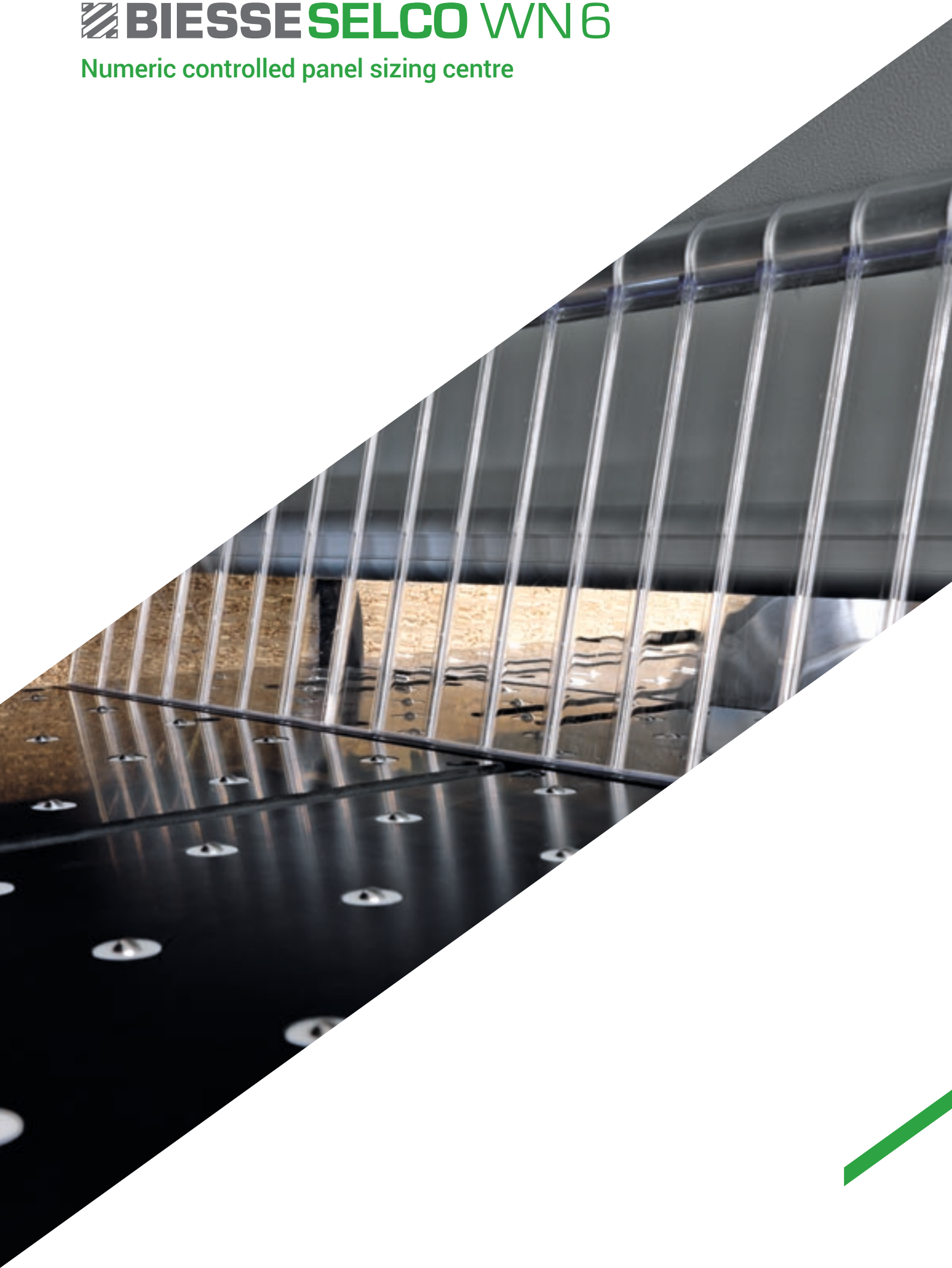
BIESSE SELCO WN 6

Numeric controlled panel sizing centre



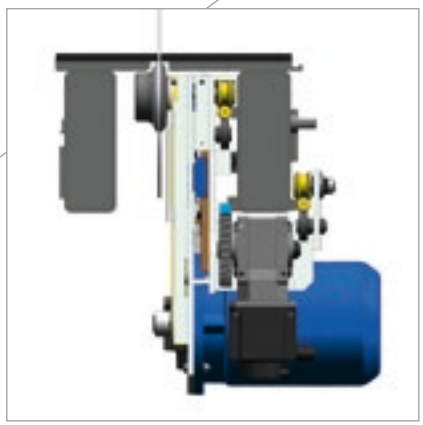
The result of technological research for top class performance

SELCO WN6

Numeric controlled panel sizing centre

Cutting quality

Perfect stability, thanks to the solid steel structure of the **base** sustained by robust supports. The slide guides of the blade-holder carriage are located on the same beam to ensure they are straight and perfectly parallel.

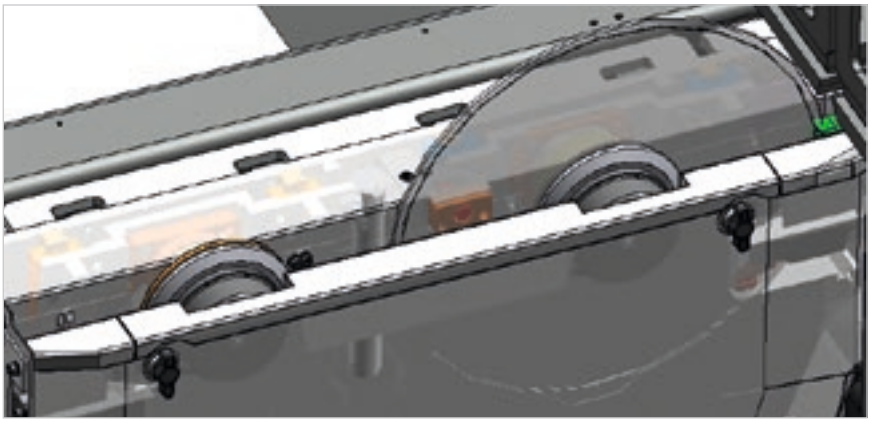


The excellent balancing of the tool-holder carriage (thanks to the shape of the base and the positioning of the guides and wheels) means there are no blade vibrations at all, and the carriage makes an extremely linear movement.

Top product quality, thanks to the air cushioned working surface, which protects delicate materials. In addition, this characteristic ensures the surface next to the blade is kept constantly clean.

The protrusion of the main blade, and the opening of the presser, are automatically adjusted by the numerical control on the basis of the thickness of the book to be cut, thereby obtaining the best cutting quality in all working conditions.

Vertical movement of the main blade is managed and optimized via quick blade height adjustment..



The **anti-slide device** controls the position and the number of rotations of the blade, intervening to adjust the advance speed. Maximum cutting quality, a longer blade lifespan, and reduced maintenance costs.

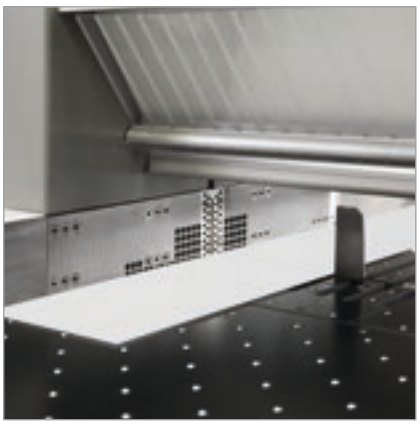
The consistent, controlled pressure on the book of panels to be cut is guaranteed by the **presser** with its single-element structure.

Cutting line closure system, to prevent the longitudinal trim cuts from falling into the machine and fouling the blade path.

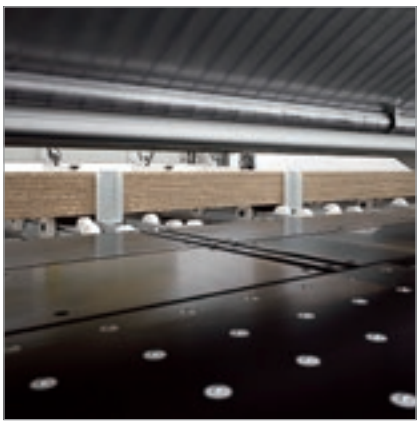
Cutting accuracy

Fast, accurate positioning of the panels for optimum cutting precision, thanks to the robust **pusher carriage** activated by a brushless motor. The slide surface below the pushing device is fitted with independent rollers to avoid making any marks on panels with a delicate surface.

Independent and self-levelling grippers, ensure the book is firmly secured. The design of the system completely ejects the cut panels making it easier for the operator to handle both the panels and waste.



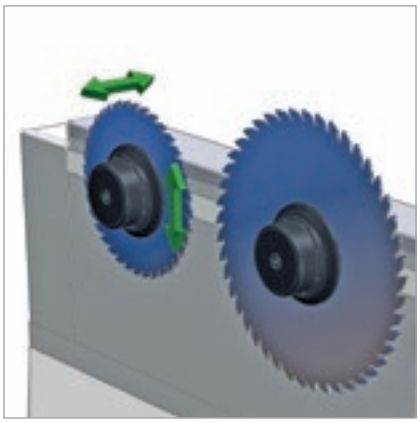
Perfect alignment of very thin and/or flexible panels too, minimising cycle times thanks to the **side alignment stop** integrated in the blade carriage.



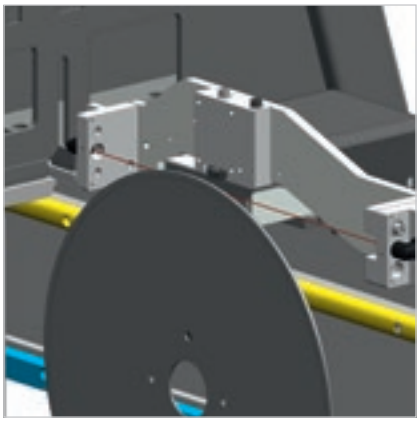
Powerful front aligners align the book of panels against the pushing device collets.

Reduced tool changeover time

Quick Change system (patented) for the quick release of the blades without 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.



Automatic alignment. The patented system automatically aligns the scoring blade in seconds, which completely eliminates test cuts, reduces set-up time which increases efficiency and reduces production costs.

Reduced panel loading times

On request special solutions are available for the movement of packs and to permit the loading and unloading of panels.

The lift table consists of a strong frame is equipped with a special structure to load the pack of panels directly by forklift.

Infeed conveyors with free-running or powered rollers allow the loading and side or rear unloading of the panels.

Double-level infeed conveyor. Thanks to the reduced footprint, which utilises height, the double-level infeed conveyor enables the optimisation of space and is perfectly suited to production sites that cannot accommodate two conveyors side by side.

Panel clamping devices avoid the misalignment of the stack during the rotation phase.

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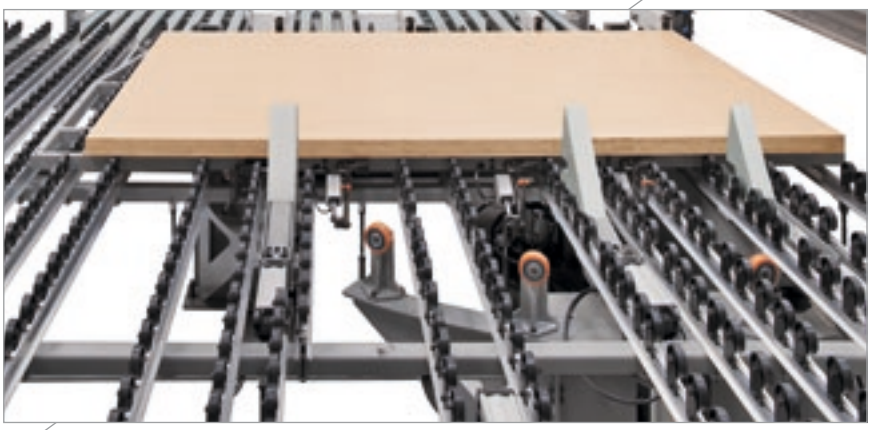


Front aligners to align the boards in the width directly on the turn station unit .

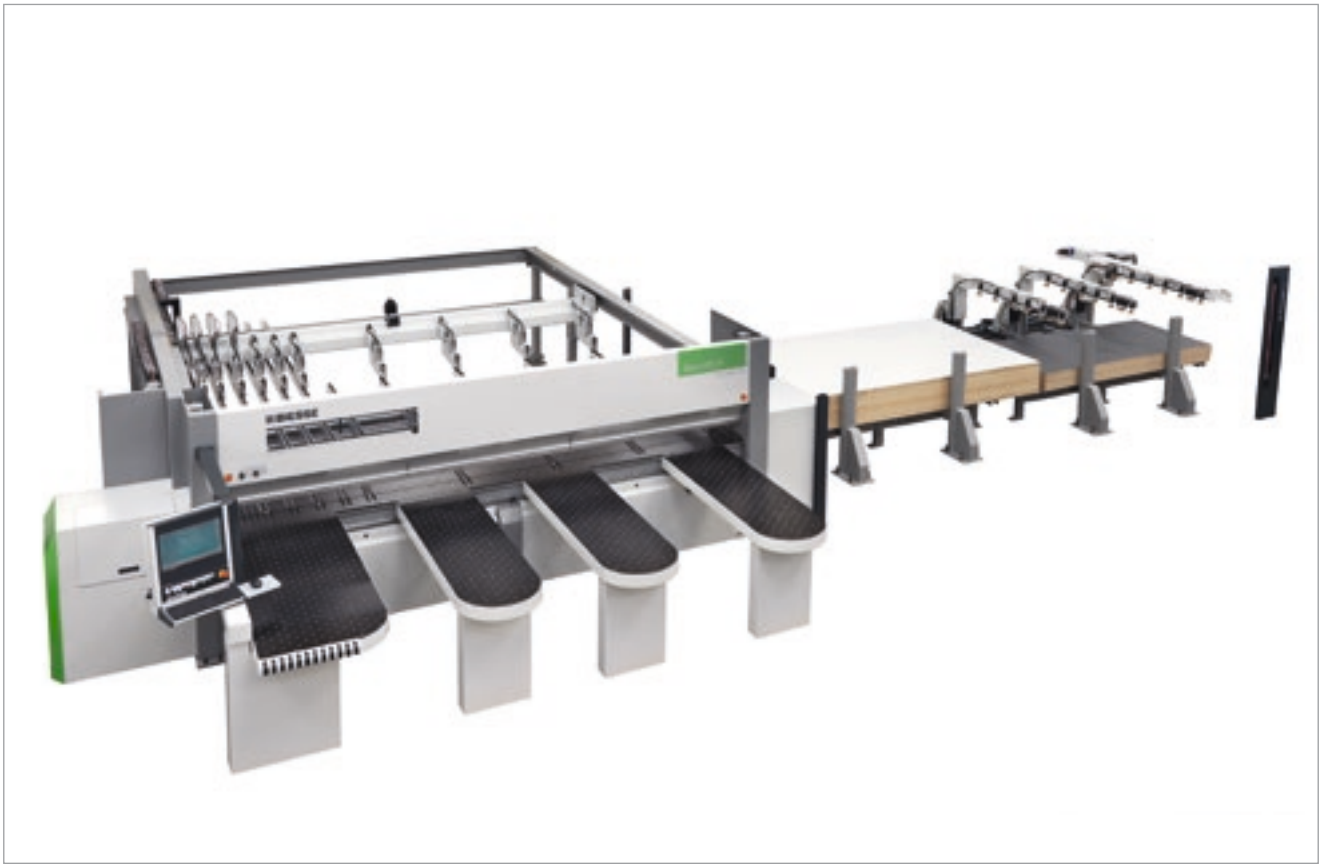
Compact, integrated loading solutions

Maximum protection of the surface of delicate panels to prevent damage.

The **X Feeder** autoloader loads the panels to be cut into the machine in a fully automated manner, thanks to a suction arm system.
A compact, ergonomic solution that can easily adapt to any manufacturing context, occupying a reduced footprint and optimising the production flow.

The operator has one or more stacks of material always available, with the possibility of selecting which one to load from. It can be configured with 2 or 3 arms, depending on material characteristics.

It adapts automatically to different panel formats, thanks to the automatic positioning of suction cups depending on panel size.



Increase of manufacturing capability

Increase of manufacturing capability for efficient, customised production.

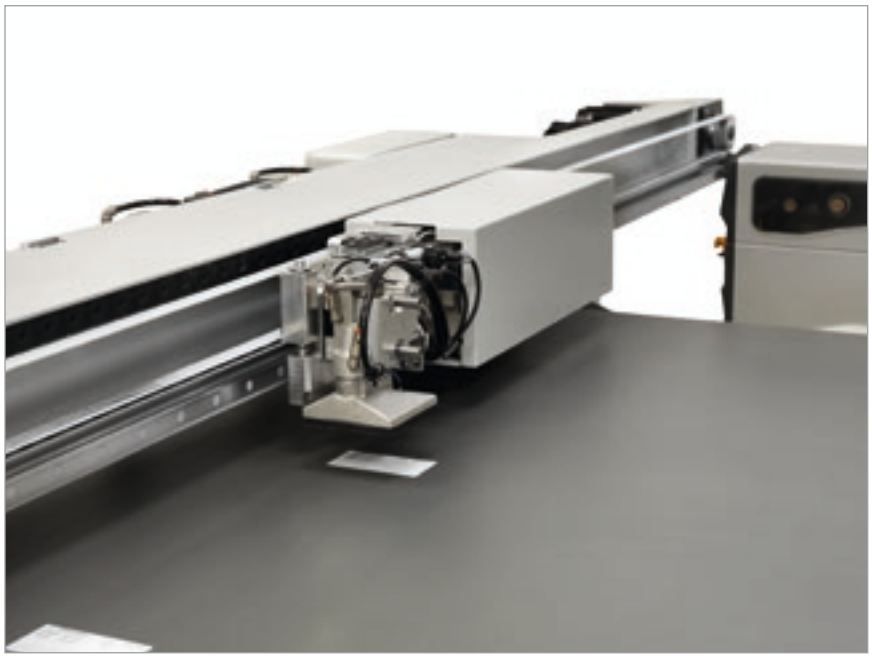
The seamless integration with the Twin Pusher system allows loading the panels whilst the machine is running: the new stack is created whilst the auxiliary pushing device processes the last strip.

Extremely user-friendly and intuitive operation thanks to the single control-point management via supervisor-free machine control.

Labelling with maximum efficiency

The X Feeder L Loader supports automatic labelling of single or stacked panels before loading into the machine.

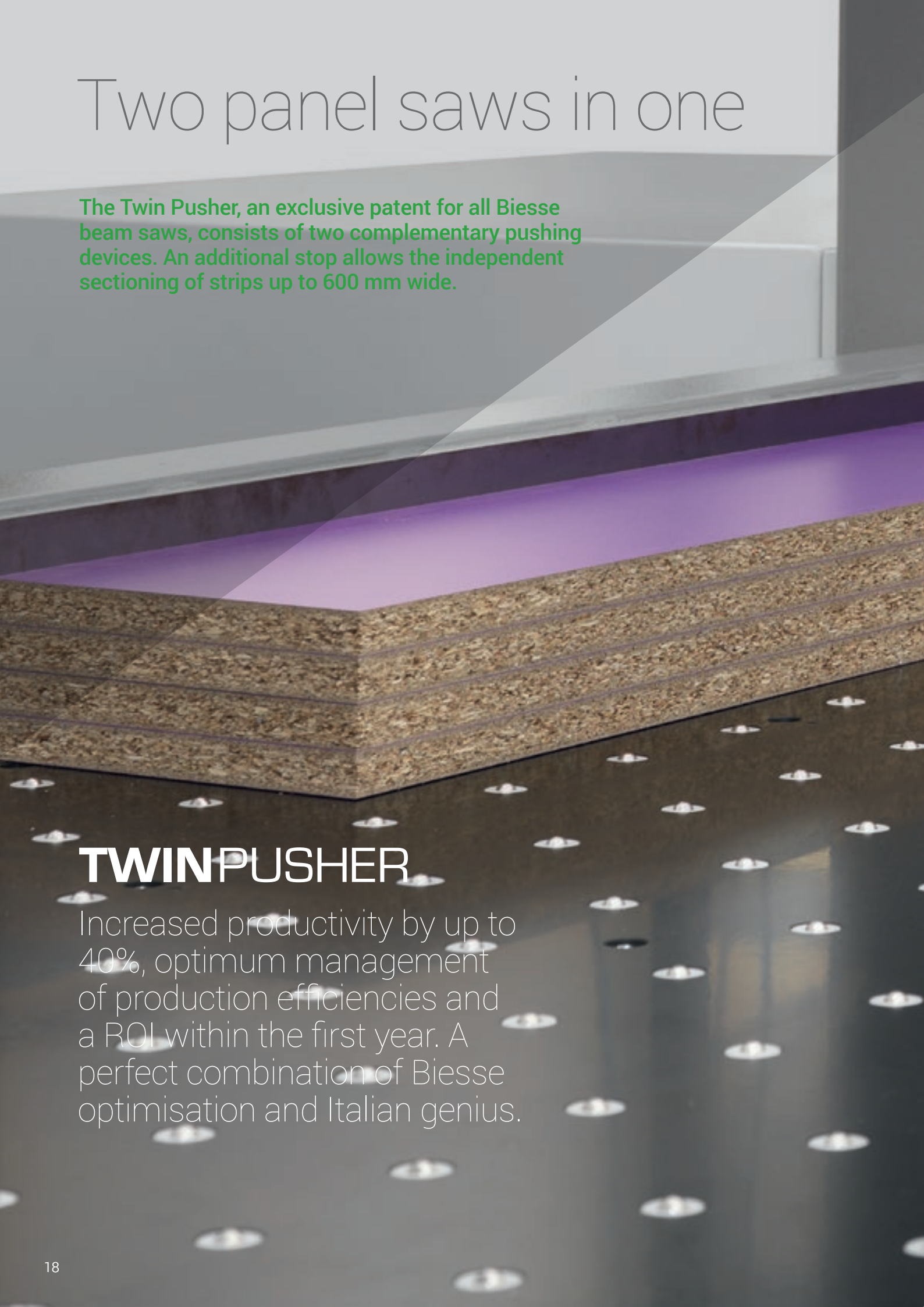
Automatic detection of the panel in the loading position for correct, precise labelling.



The rotating application head (0-90°) can follow the orientation of the component.

Two panel saws in one

The Twin Pusher, an exclusive patent for all Biesse beam saws, consists of two complementary pushing devices. An additional stop allows the independent sectioning of strips up to 600 mm wide.



TWINPUSHER

Increased productivity by up to 40%, optimum management of production efficiencies and a ROI within the first year. A perfect combination of Biesse optimisation and Italian genius.

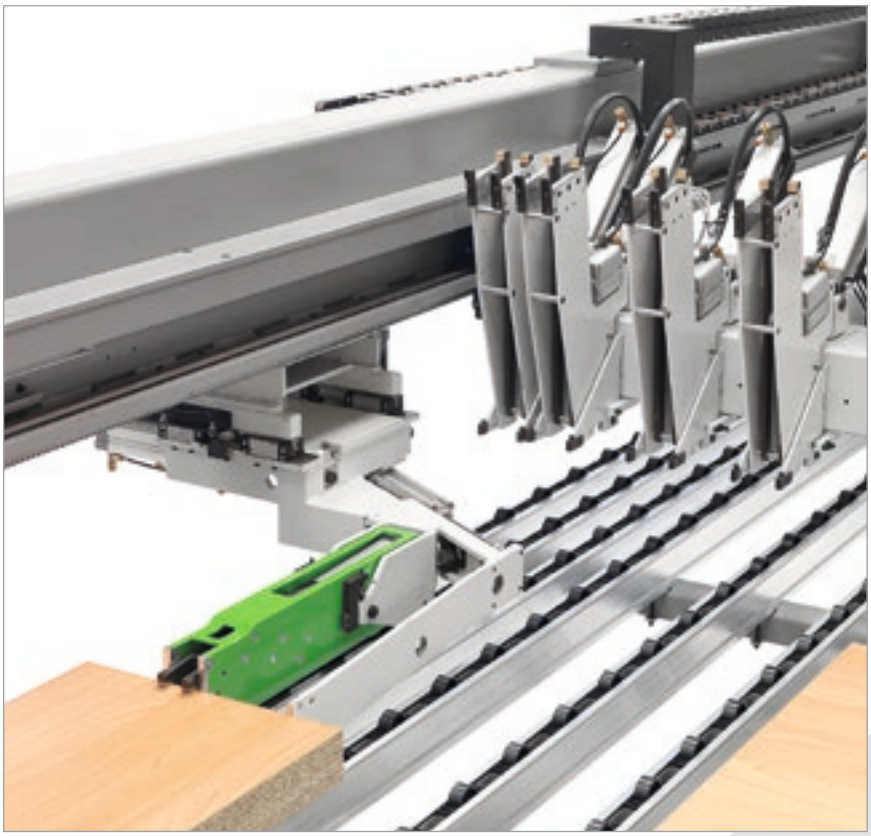
Productivity increase of up to 40%

Two independent cutting stations on a single beamsaw.

An auxiliary pushing device consisting of a collet with side positioning by means of the numerical control. An additional stop allows independent cutting of strips of up to 600 mm wide.

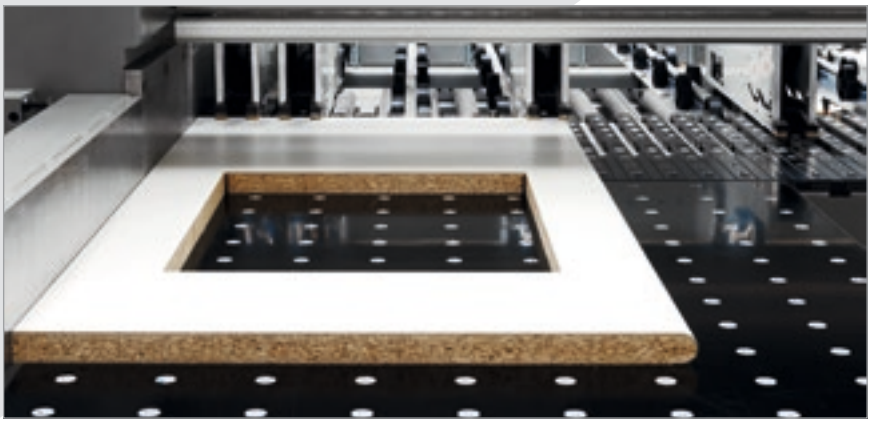
Differentiated cross cut, also for narrow strips.

Rip and cross-cuts are performed at the same time.

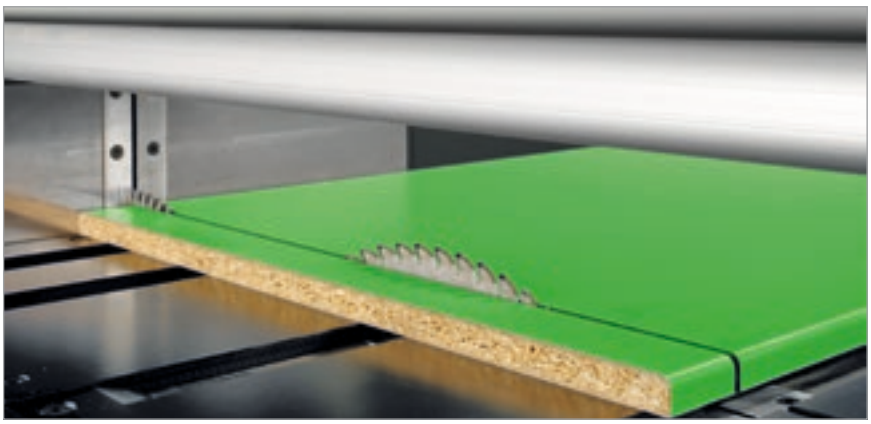


Cross-cut of the last strip, with advanced loading and rotation of the next book of panels.

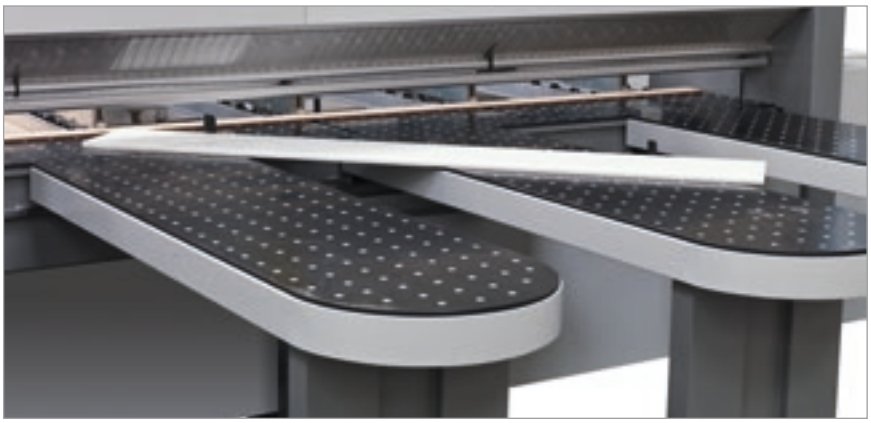
Technological solutions for every machining need



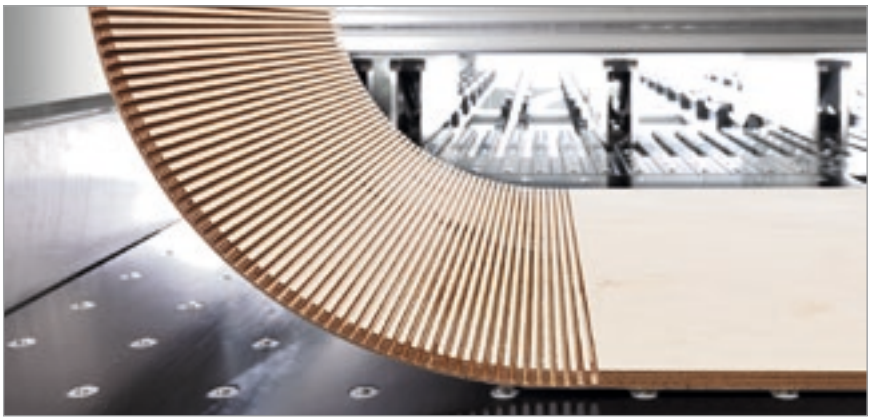
Software for making window cuts on panels. The layouts can be stored on the numerical control.



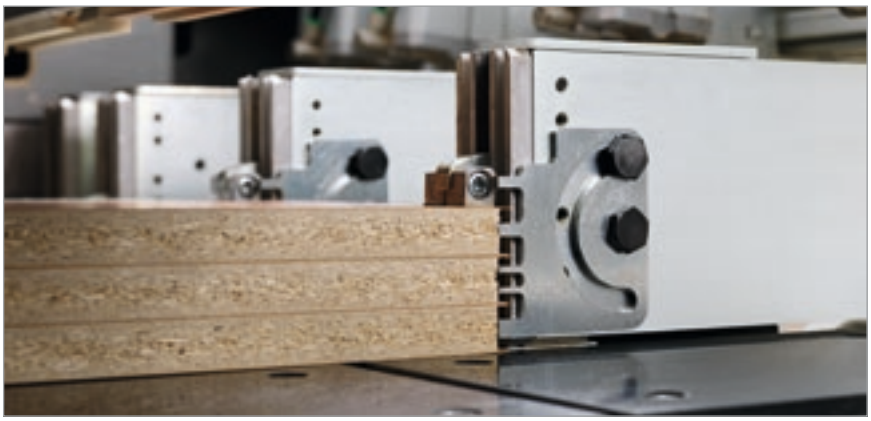
PFS function for making cuts on soft and post-formed panels. A special NC program that ensures the perfect finish of both the entrance point and the exit profile, preventing any splintering of fragile, delicate materials (patented).



Automatic device for making angled cuts.



System for the automatic execution of grooves, whose width 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, or via an electronic device.

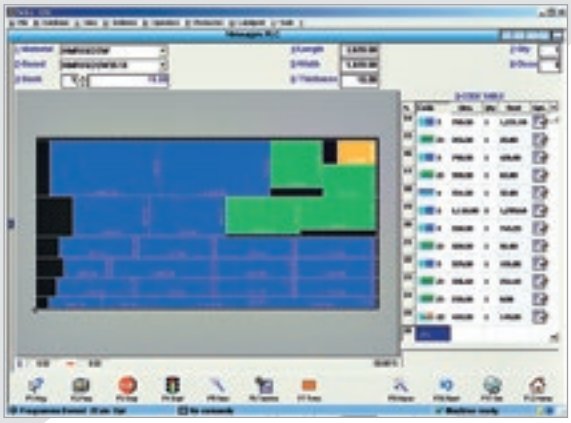


Collets with specific stops for processing books of laminated materials with protruding edges.

Thin panels can be loaded from the lifting table, using independent floating pushing points that are electronically controlled. A specific logic together with the front pop-up stops prevent the risk of mis-feeding (by means of attrition) those panels that don't belong to the book being fed.

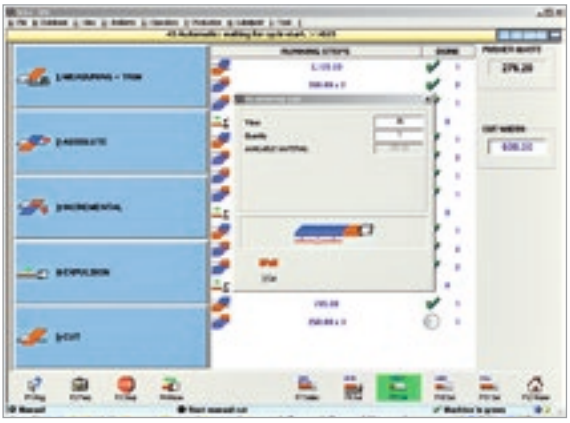
Ease of use and practicality

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.

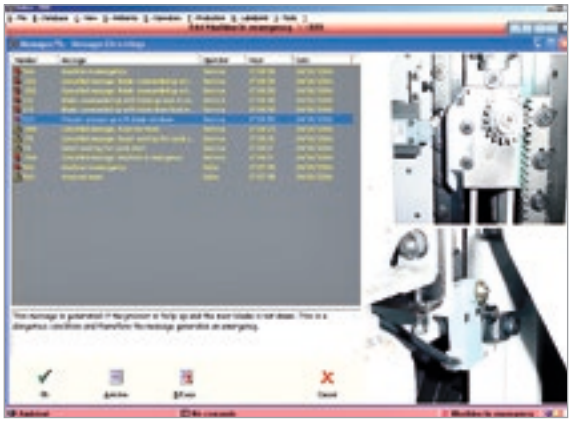


Easy cutting pattern programming.

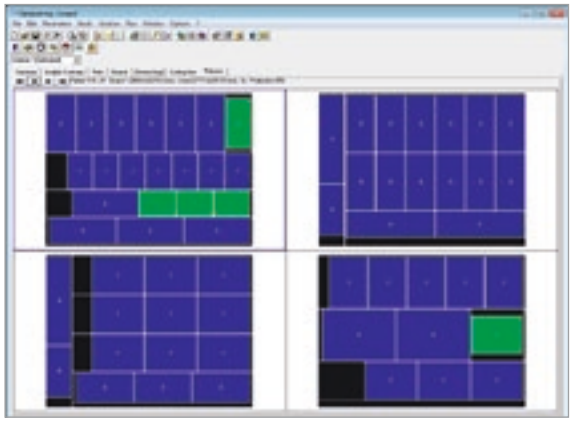
Graphic simulation in real time, with messages and information for the operator.



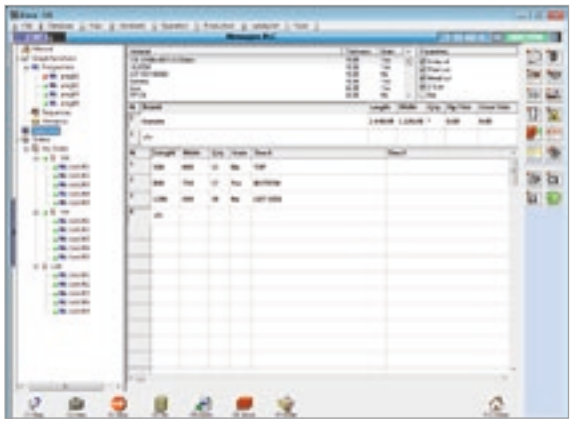
Interactive program for the quick, easy execution of cuts and grooves, even on recycled panels.



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



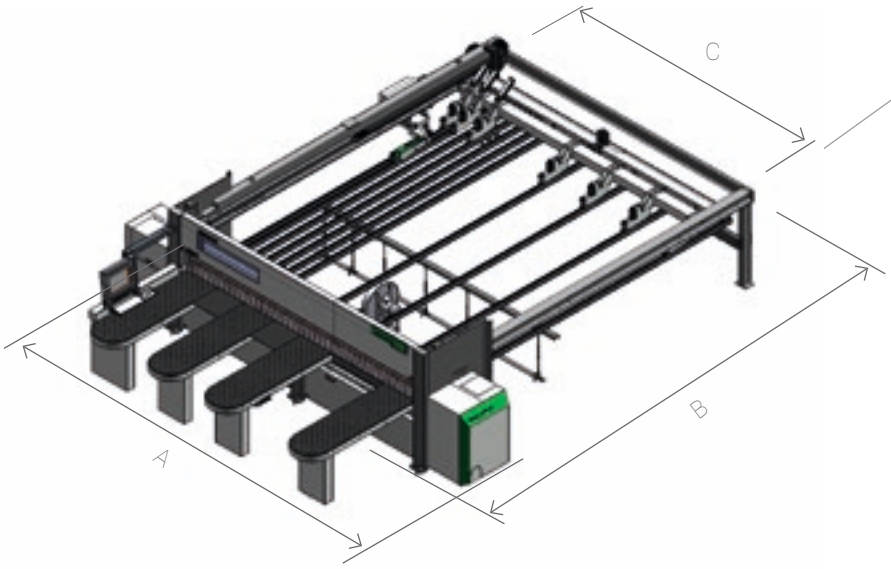
OptiPlanning.
Software to optimise cutting patterns and maximise efficiency for both material costs and cutting times. The cutting lists can be set manually (Data input) or imported via ASCII files (Data import).



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

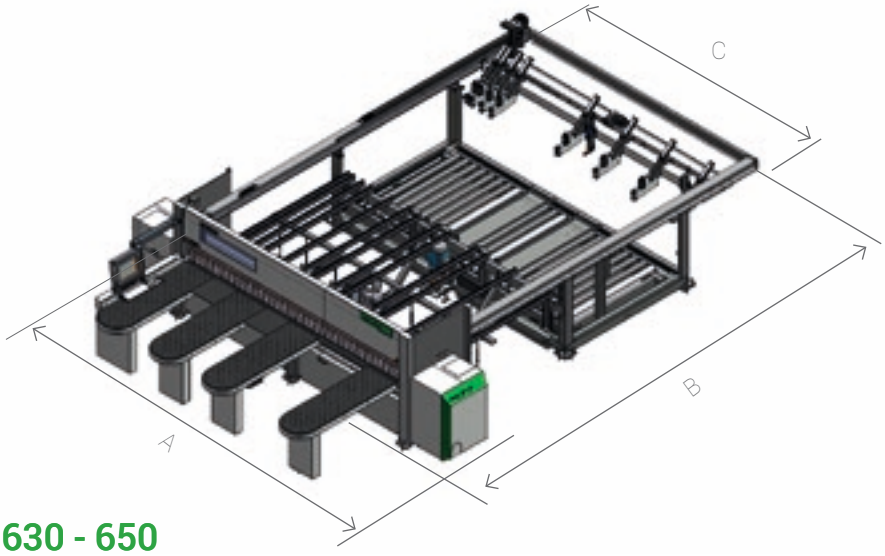
Labelling.
A special software creates individual labels and prints them in real time, on the machine. The information available can also be printed in bar code form.

Technical specifications



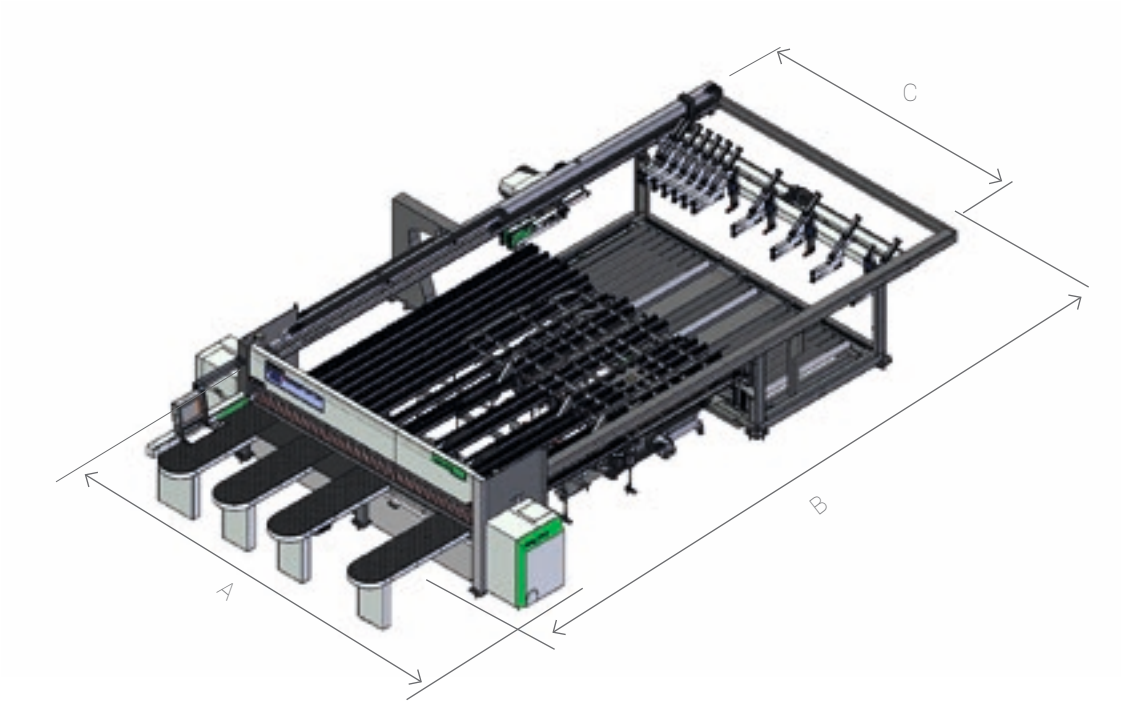
WN 610 - 630 - 650

	3200X3200	3800X3200	3800X3800	4500X4500
	mm	mm	mm	mm
A	5350	5950	5950	6650
B	6980	6980	7580	8280
C	3630	4230	4230	4930



WNT 610 - 630 - 650

	3200X2200	3800X2200	4500X2200
	mm	mm	mm
A	5350	5950	6650
B	9240	9240	9240
C	3630	4230	4930



WNTR 610 - 630 - 650

	3800X2200	4500X2200
	mm	mm
A	5950	6650
B	9950	11490
C	4230	4930

		610	630	650
Maximum blade protrusion	mm	95	108	123
Main blade motor	kW/Hz	15.0-17.3/50-60	18.5-21.3/50-60	
Engraver blade motor	kW/Hz	2.2-2.6/50-60		
Blade carriage transfer		brushless		
Blade carriage speed	m/min	0-140		
Pushing device transfer		brushless		
Pushing device speed	m/min	90		

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 (LpfA) during machining for operator workstation on vane-pump machine Lpa=83dB(A) Lwa=106dB(A) A-weighted sound-pressure level (LpA) for operator workstation and sound power level (LwA) during machining on cam-pump machine Lwa=83dB(A) Lwa=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.