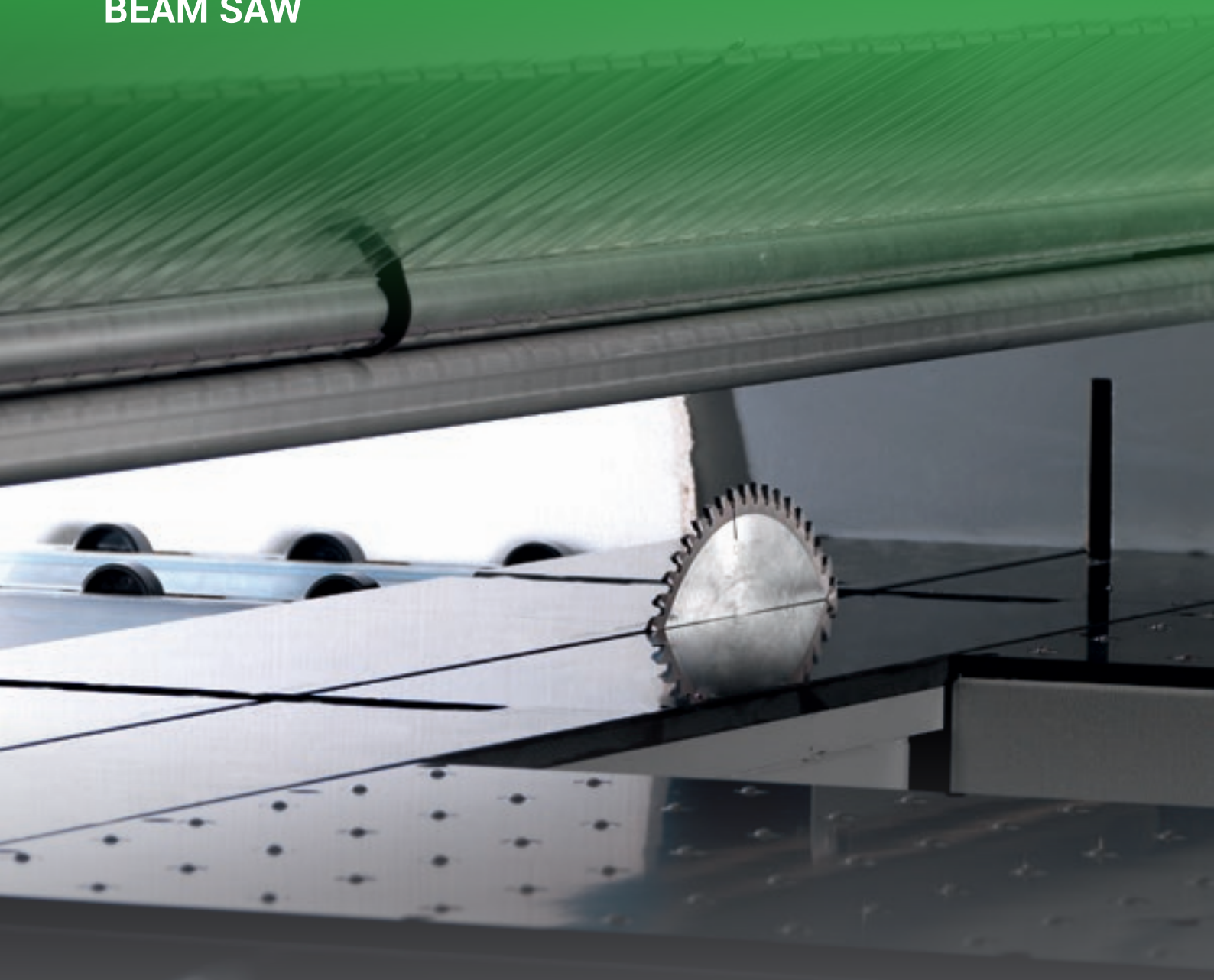


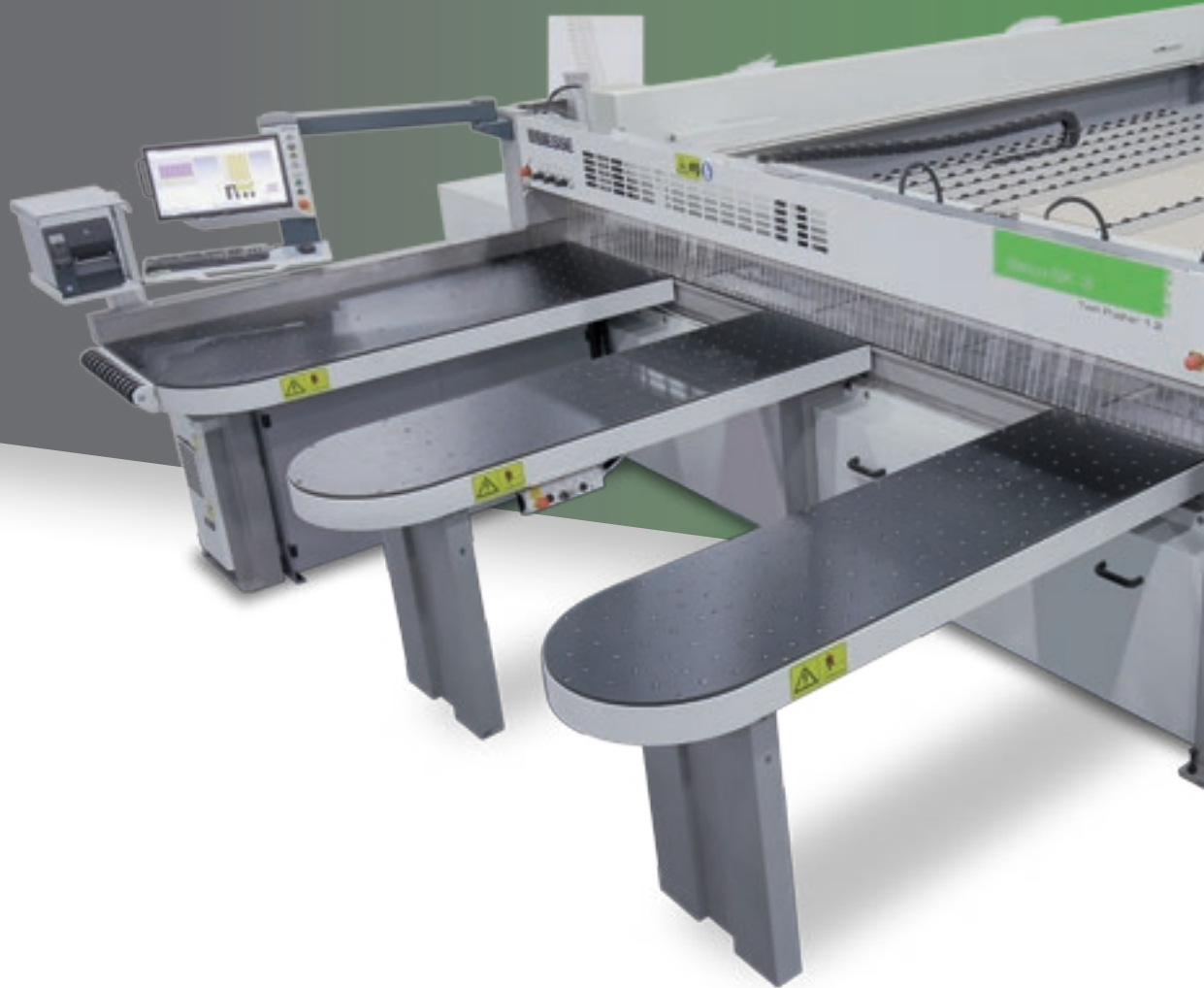
SE LCO SK3

NUMERICAL CONTROL
BEAM SAW



 **BIESSE**

EASY AND COMPACT SIZING



THE MARKET DEMANDS

a change in manufacturing processes, enabling 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 defied delivery times.

BIESSE MEETS THESE REQUIREMENTS

with technological solutions which enhance and support technical expertise as well as process and material knowledge. **Selco SK3** is the range of panel sizing centre able to satisfy the small and medium companies needs, because this has been specifically designed for single parts production or small series.



SELCO SK3

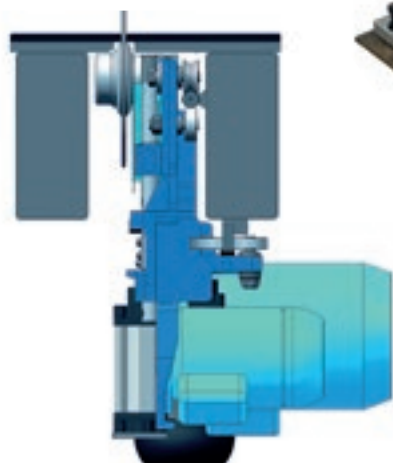
- ✔ CUTTING ACCURANCY
- ✔ BEST PERFORMANCE IN ITS CATEGORY
- ✔ PRODUCTION INCREASE OF UP TO 25%
- ✔ EASY TO USE, WITH OPTIMISED MACHINING OPERATIONS
- ✔ EASY, QUICK ADJUSTMENTS.

CUTTING ACCURACY

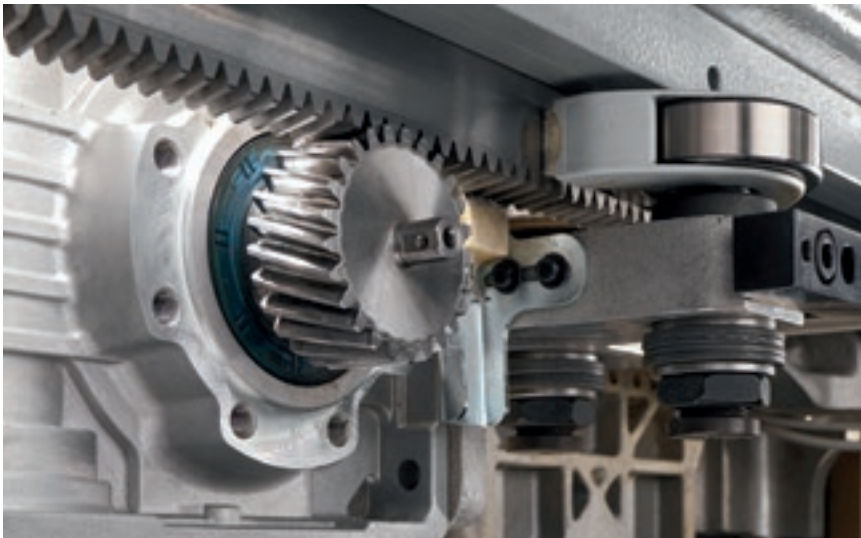
Robust, balanced structure ensuring maximum stability. Specially-designed technologies to guarantee precision and rigidity.



The machine base consists of an heavyduty frame structure and strong supports assuring its perfect stability. The saw carriage guideways assure perfect parallelism, rectilinearity and an optimal weight balance of the saw carriage. Additional central support for the machine of dimension 3800mm x 3800mm.



The top guide, positioned right beside the saw blade hub, guarantees the total absence of saw blade vibrations.



The perfectly linear movement of the tool holder carriage is achieved through a helical rack and pinion system and is driven by a brush-less servomotor.



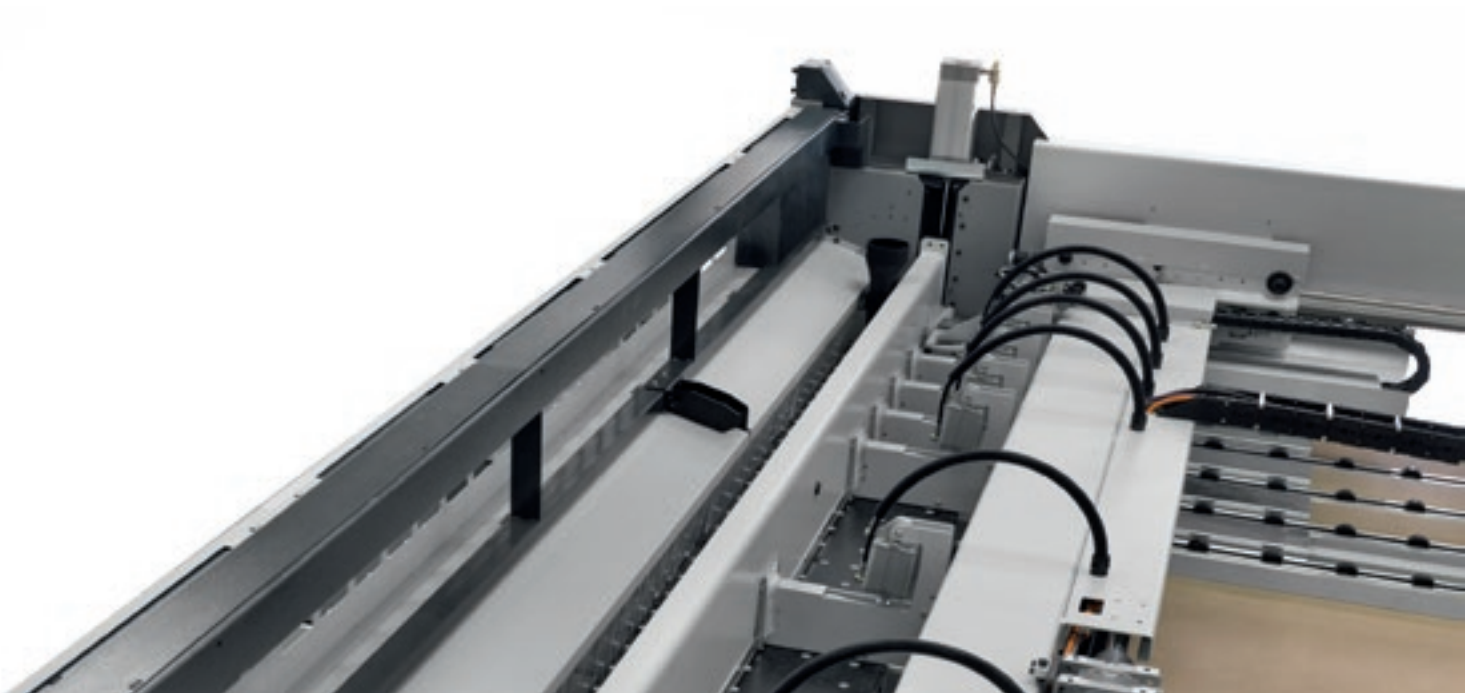
The superior cutting quality is achieved through independent rise and fall movements of the main blade and the scoring blade.

The **projection of the main blade** is automatically adjusted by the numerical control according to the thickness of the book to be cut, obtaining the best quality cut under any working conditions. On the Selco SK 450 K1, the automatic blade projection is regulated on two levels.



BEST PERFORMANCE IN ITS CATEGORY

Unique technical solutions on the market, to satisfy even the most rigorous production demands, in terms of both precision and flexibility,

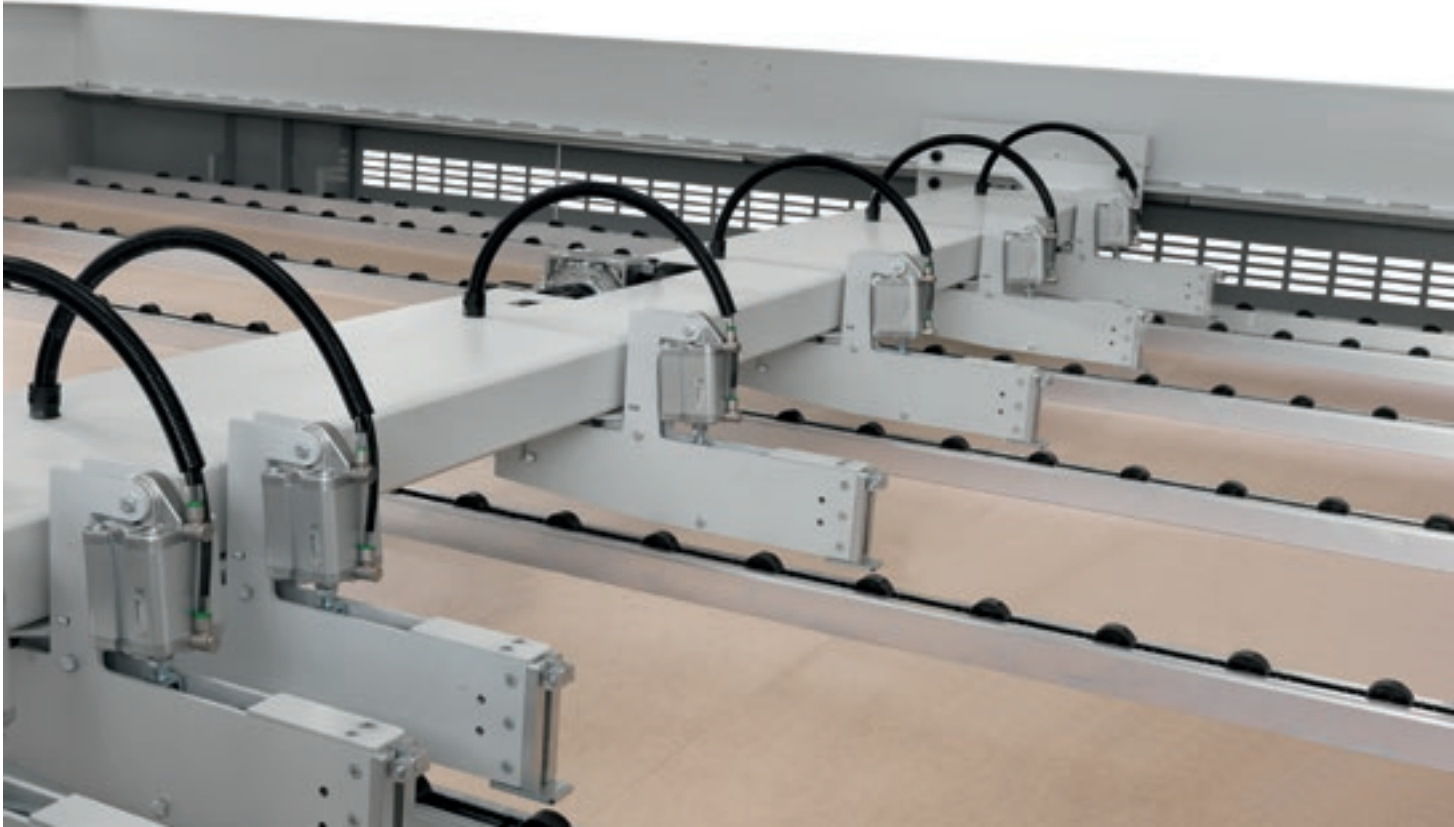


The **presser** boasts a single-element structure which guarantees consistent, controlled pressure on the book of panels to be cut. The opening is automatically optimised according to the thickness of the book of panels, in order to achieve the best cut quality and to reduce cycle times.



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.

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.



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

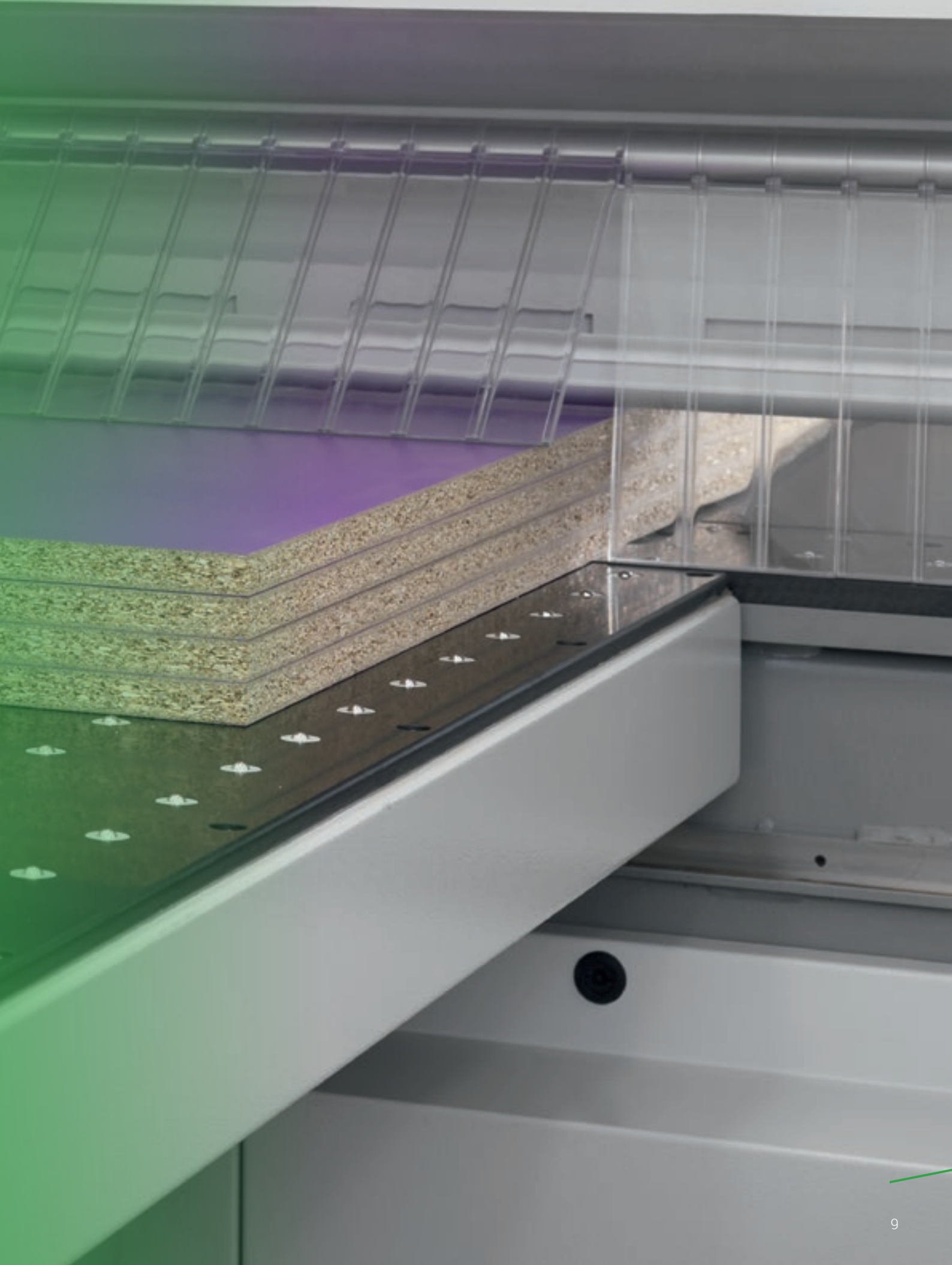


TWIN PUSH ER

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%

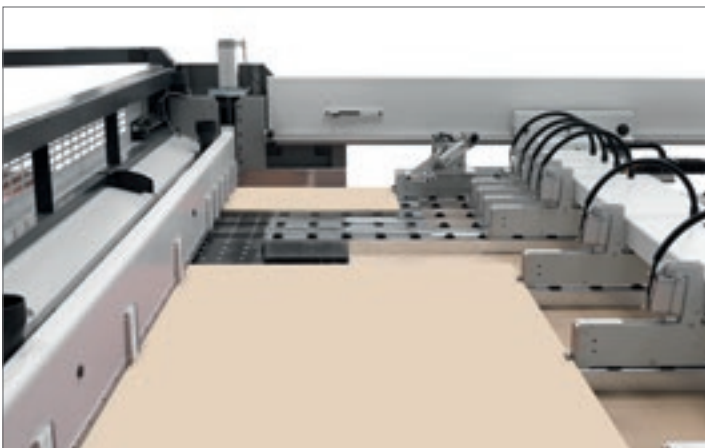
Two cutting stations on a single beam saw.



The Twin Pusher system is equipped with an auxiliary pushing device consisting of a gripper with side positioning by means of the numerical control. Allows for simultaneous cutting, dramatically reducing cycle times.

Differentiated cross cut.





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



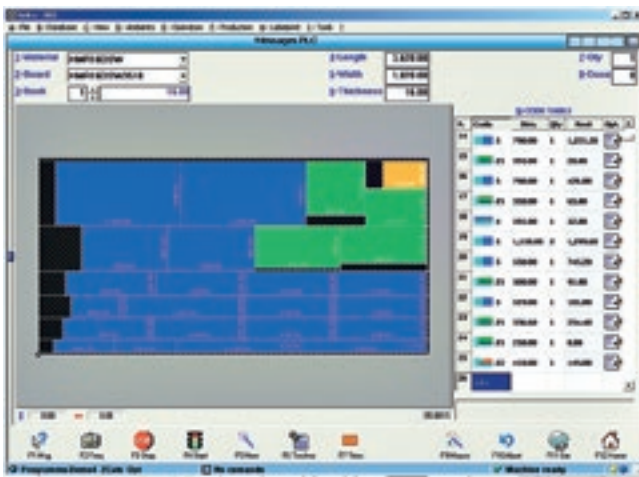
The compact, integrated **lifting table** allows for packs of panels of up to 630 mm to be loaded directly onto the steel profiles. The lifting table can also be installed as an option.



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.

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.



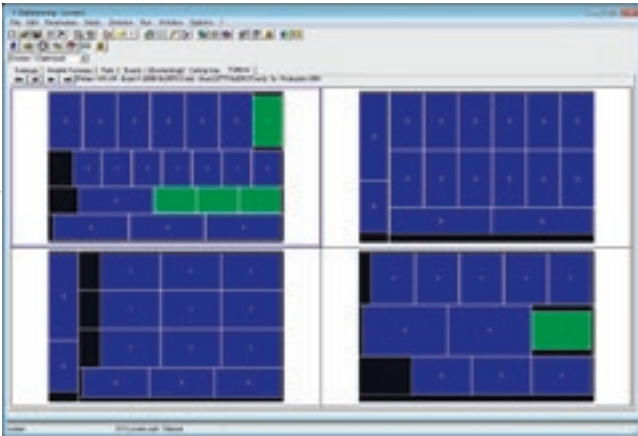
Graphic simulation in real time, with messages and information for the operator.



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

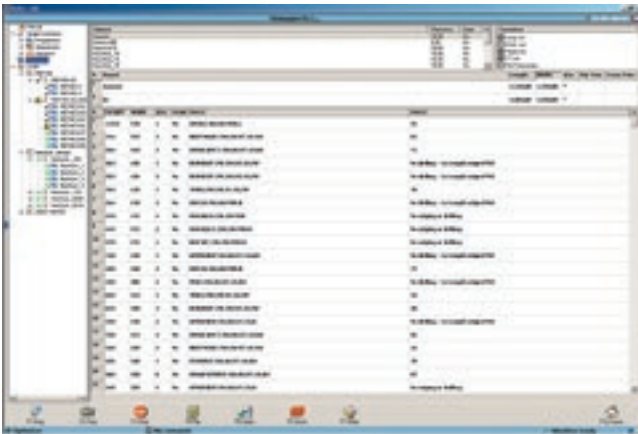


An effective diagnosis and troubleshooting program provides complete information (photos and text) to ensure that any problems are quickly resolved.



OptiPlanning

Software to optimise cutting patterns and maximise efficiency for both material costs and cutting times.



Quick Opti

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



Barcode scanner

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

Labelling

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

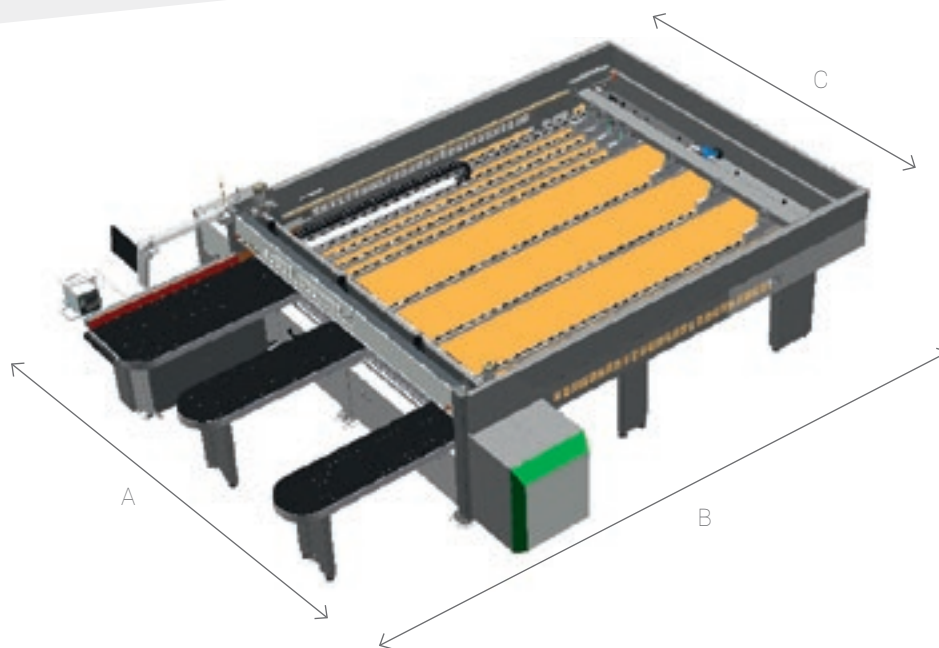


FAST AND EASY ADJUSTMENT FOR REDUCED CYCLE TIMES

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



TECHNICAL SPECIFICATION



SELCO SK 3

Standard machine 3200x3200

Machine 3800x3800

		Standard machine 3200x3200	Machine 3800x3800
A	mm	5240	5840
B	mm	6600	7200
C	mm	3640	4240

370

Maximum blade protrusion	mm / inch	90 / 3.54
Main saw motor	kW (HP), Hz	11 (15), 50
Scoring saw motor	kW (HP), Hz	2,2 (3), 50
Saw carriage traverse movement		Brushless
Saw carriage speed	m/min - ft/min	1-120 - 1-394
Pusher traverse movement		Brushless
Pusher carriage speed	m/min - ft/min	60 - 197

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 (LwA) during machining L_{wa}=83d- B(A) L_{wa}=106dB(A) K measurement uncertainty dB(A) 4

Il rilevamento è stato eseguito rispettando la norma UNI EN 848-3:2007, UNI EN ISO 3746: 2009 (potenza sonora) e UNI EN ISO 11202: 2009 (pressione sonora post-operatore) con passaggio pannelli. I valori di rumorosità indicati sono livelli di emissione e non rappresentano necessariamente livelli operativi sicuri. Nonostante esista una relazione fra livelli di emissione e livelli di esposizione, questa non può essere utilizzata in modo affidabile per stabilire se siano necessarie o meno ulteriori precauzioni. I fattori che determinano il livello di esposizione a cui è soggetta la forza lavoro comprendono la durata di esposizione, le caratteristiche del locale di lavoro, altre fonti di polvere e rumore ecc., cioè il numero di macchine ed altri processi adiacenti. In ogni caso, queste informazioni consentiranno all'utente della macchina di effettuare una migliore valutazione del pericolo e del rischio.

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

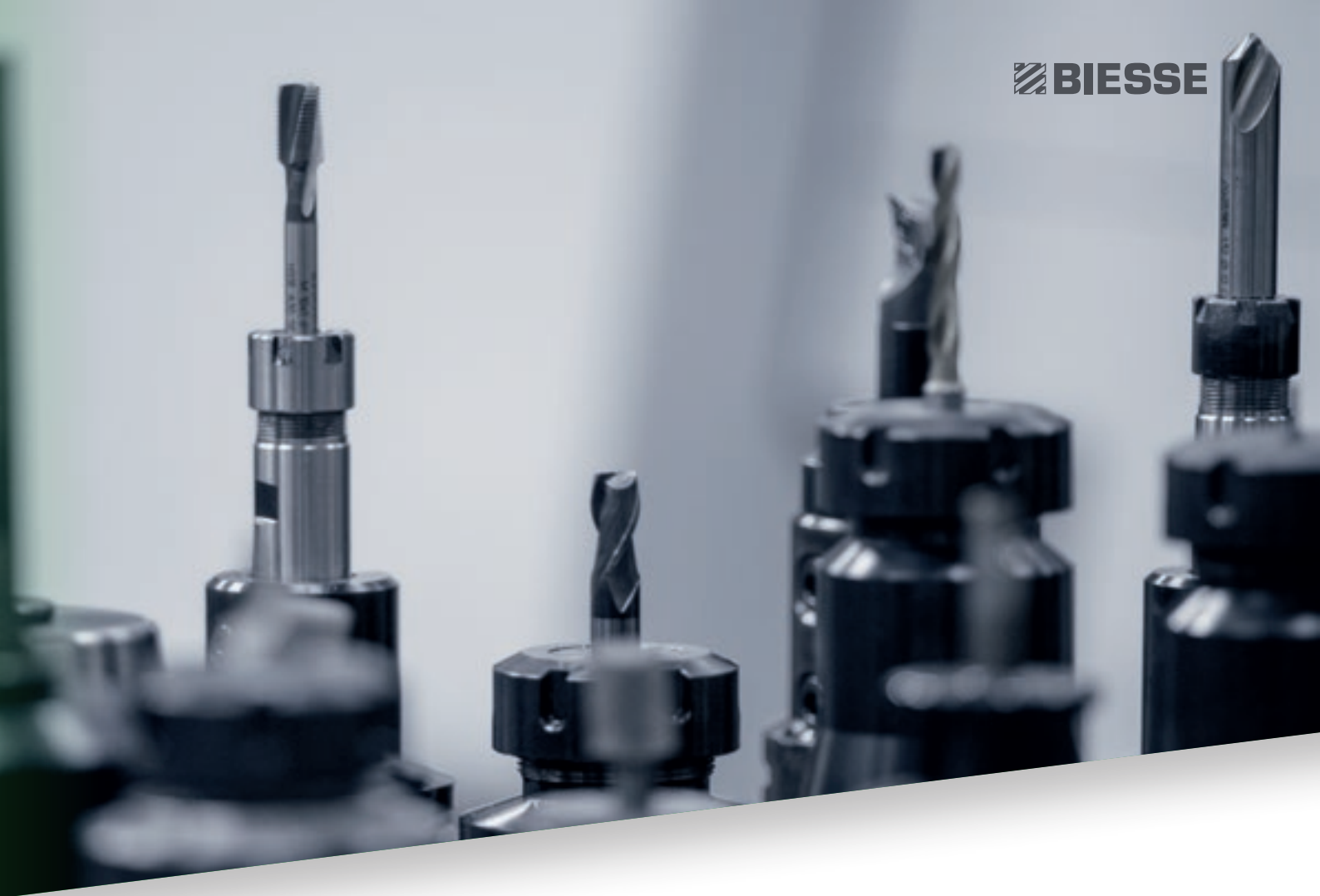
Biesse engineers manning a Teleservice Centre.

550

certified Dealer engineers.

120

training courses in a variety of languages every year.

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 black coatings. The background is a soft, out-of-focus grey.

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 cutting, 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



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.



BIESSEGROUP

