

SE LCO SK3

NUMERICAL CONTROL
BEAM SAW



EASY AND COMPACT SIZING



THE MARKET EXPECTS

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

with technological solutions which enhance and support technical expertise as well as process and material knowledge. **Selco SK 3** 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 SK 3

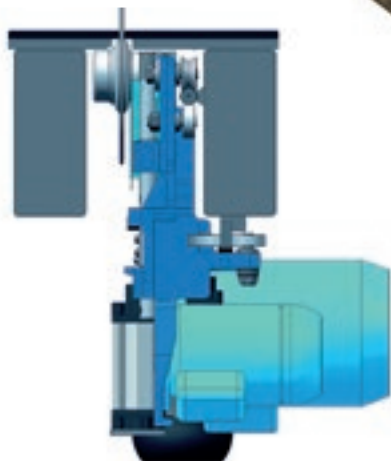
- ✓ **CUTTING ACCURANCY**
- ✓ **BEST PERFORMANCE IN ITS CATEGORY**
- ✓ **EASY TO USE, WITH OPTIMISED MACHINING OPERATIONS**
- ✓ **FAST AND EASY ADJUSTMENT FOR REDUCED CYCLE TIMES**

CUTTING ACCURACY

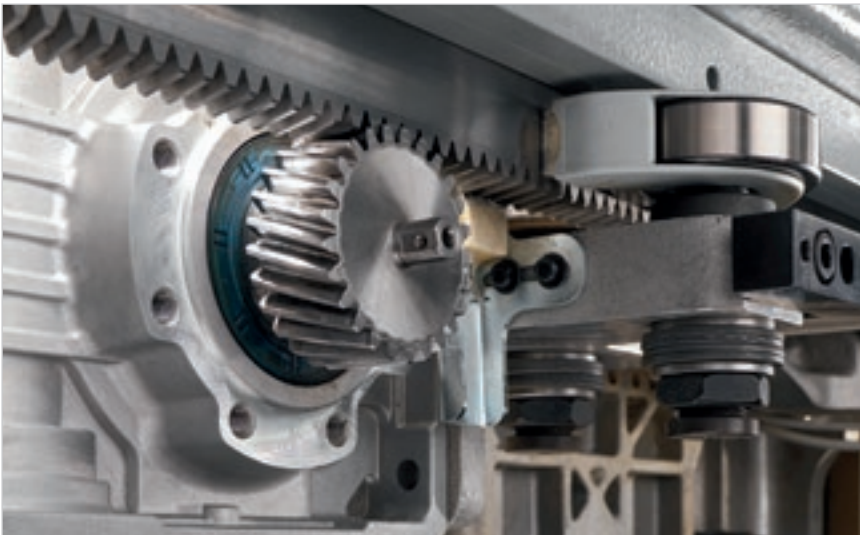
Robust, balanced structure ensuring maximum stability. Specially-designed technologies to guarantee precision and rigidity.



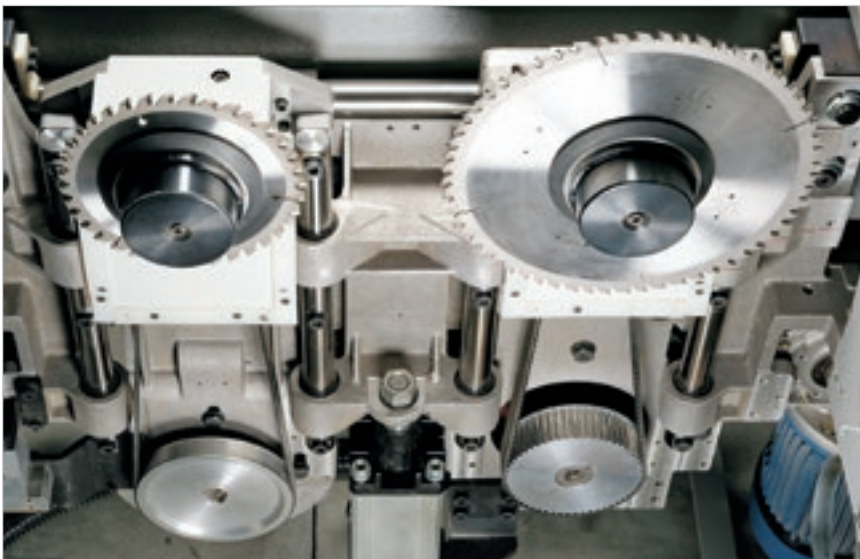
The machine base consists of an heavyduty frame structure and strong supports assuring its perfect stability. The saw carriage guideways assure perfect parallelism, rectilinearity and an optimal weight balance of the saw carriage. Additional central support for the machine of dimension 3800mm x 3800mm.



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.



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.

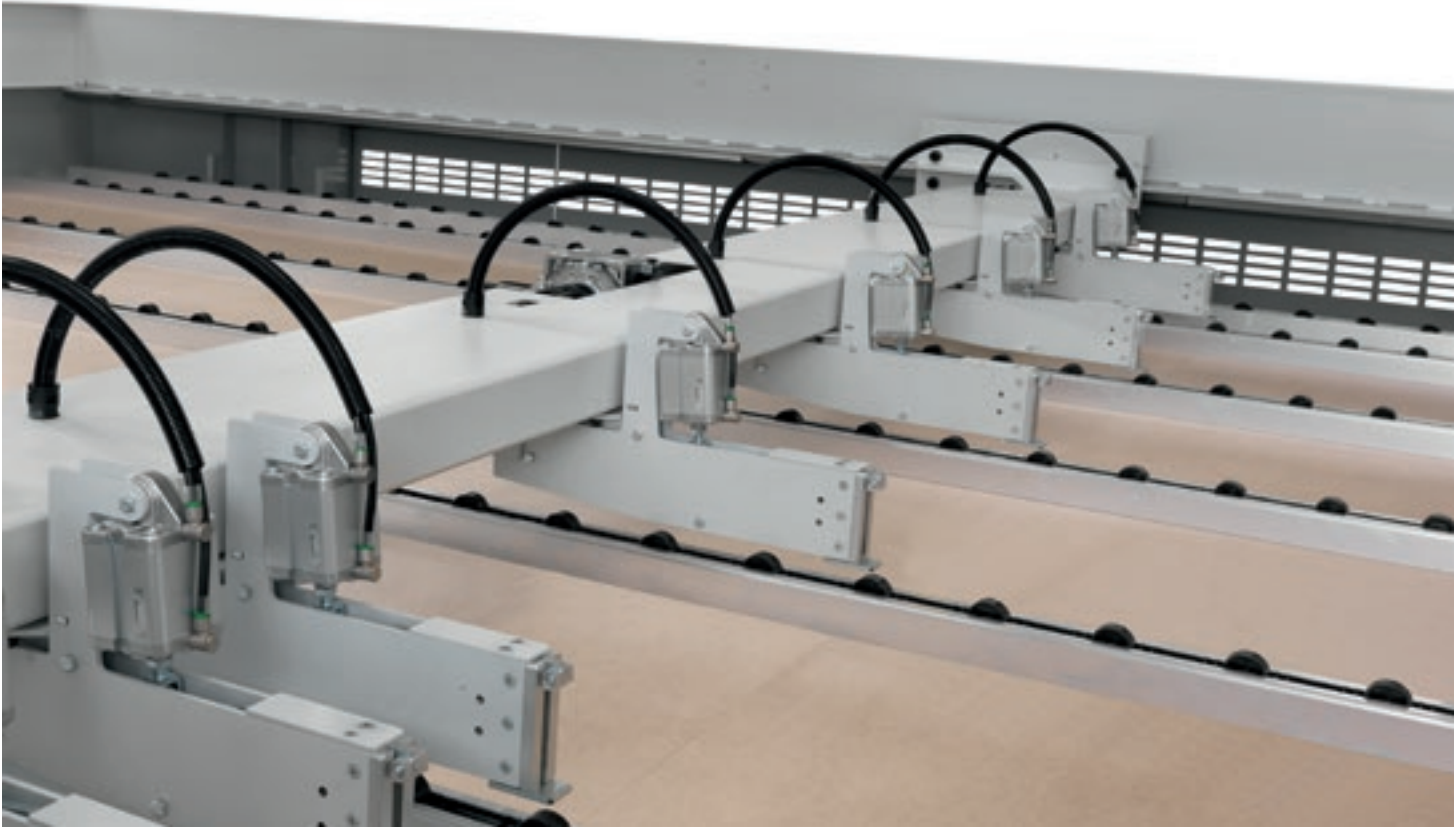


The **presser** boasts a single-element structure which guarantees consistent, controlled pressure on the book of panels to be cut. The opening is automatically optimised according to the thickness of the book of panels, in order to achieve the best cut quality and to reduce cycle times.



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.

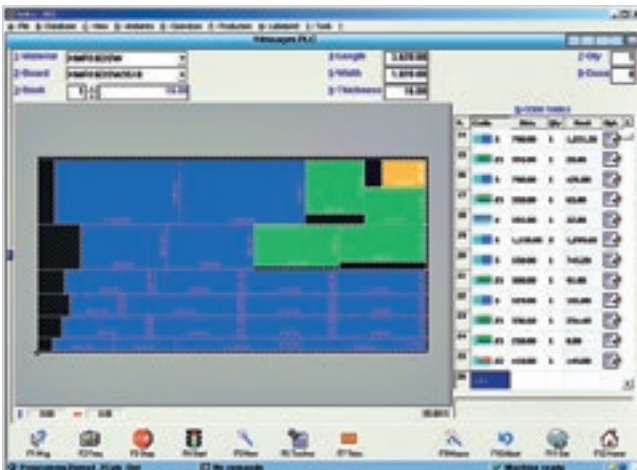


EASY TO USE, WITH OPTIMISED MACHINING OPERATIONS

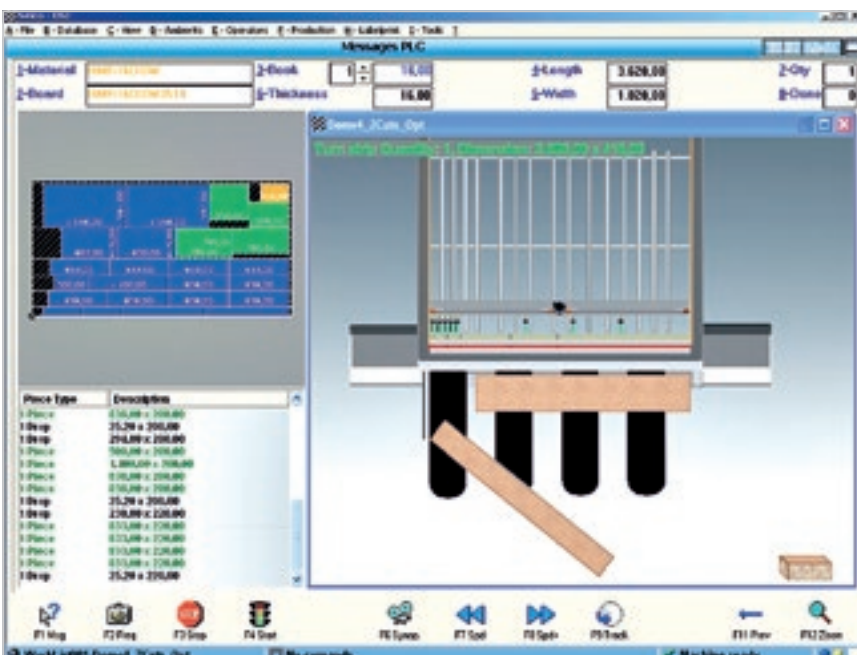
The OSI (Open Selco Interface) numerical control guarantees the management of the execution of cutting patterns, and optimizes all movements relative to controlled axis (i.e. Pusher and Saw Carriage, pressure beam, blade height). It ensures the blade protrudes from the book to the correct degree during 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.

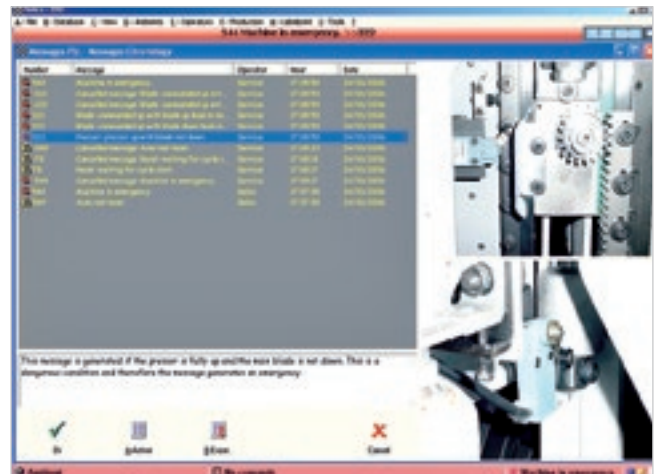


Graphic simulation in real time, with messages and information for the operator.





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

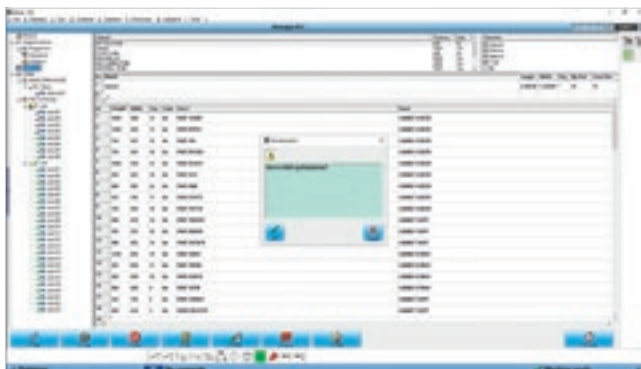


An effective diagnosis and troubleshooting program provides complete information (photos and text) to ensure that any problems are quickly resolved.



Quick Opti

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

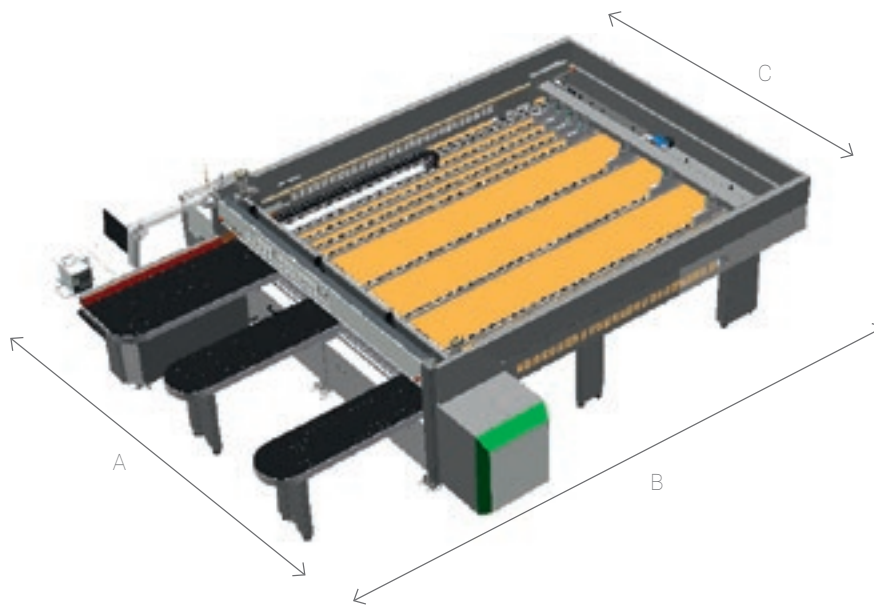


Labelling.

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



SELCO SK 3

		3200x3200	3800x3800	4300x4400
A	mm/inch	5240/206	5840/230	6340/250
B	mm/inch	6600/260	7200/283	7670/302
C	mm/inch	3640/143	4240/167	4740/187
			350	370
Maximum blade protrusion	mm / inch		75 / 2.95	90 / 3.54
Main saw motor	kW (HP)		7.5 (10)	11 (15)
Scoring saw motor	kW (HP)		2.2 (3)	2.2 (3)
Saw carriage traverse movement			Brushless	Brushless
Saw carriage speed	m/min - ft/min		1-120 - 3.2-394	1-120 - 3.2-394
Pusher traverse movement			Brushless	Brushless
Pusher carriage speed	m/min - ft/min		60 - 197	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.

Weighted surface noise level A (L_{pfA}) dB(A) 83,95. Weighted noise level A (L_{wA}) dB(A) 104,95. Uncertainty of measurement K = 4 dB (A).

The measurement was carried out in compliance with UNI EN ISO 3746, UNI EN ISO 11202 and subsequent modifications. The noise levels indicated are output levels and do not necessarily represent safe operational levels. Even though there is a relation between emission levels and exposure levels, this cannot be used reliably to establish whether or not further precautions are necessary. The factors determining the actual noise levels to which the operative personnel are exposed to include the length of exposure, the characteristics of the work environment, other emission sources, i.e. the number of machines and machining operations in the vicinity. In any case, this information will help the machine user to better assess the danger and risks involved.

MADE WITH BIESSE

FOR A REVOLUTIONARY BUT CONSCIOUS DESIGN

Conscious design that understands society and skilfully changes it for the better. That's the mission at the heart of Lago, a furniture company founded in 1976 with two simple concepts encoded in its DNA: curiosity and doing things well.

The common ground for the Biesse Group and Lago, which reinforces the historic partnership between the furniture and carpentry sectors, is the Alliance project: a collection of brands, people and businesses that have decided to join the design company from Veneto on a journey of respect for our planet, ourselves and our future. The historic partnership is borne out by the innovative production plant that Biesse developed with Lago, completely restructuring the manufacturing site. The result is the inclusion of a new Batch One facility within the existing production context, in the spirit of personalisation, speed and flexibility.

The facility has a new square-edging cell with Stream MDS and Winner W1, a new drilling cell with Skipper 130 and a new Selco WNR 650 sizing centre connected to Win-

store 3D K1, which intelligently manages all the material to be processed.

"Including the 'batch one' process bolsters the 'just in time' objective set by Lago, reducing the warehouses needed for semi-finished products and raw materials, as well as reducing scrap material and elevating product quality. What's more, it improves efficiency, reduces time to delivery and offers complete control over the production flow," explains Mauro Pede, Biesse Systems Sales Director.

"The new investments have led us to a new productive flexibility that we will continue to implement, for a renewed production speed and even greater customisation of the range," adds Daniele.

Carlo Bertacco echoes the sentiment, "We are completing a 2,500 m2 expansion, to be even faster and more flexible while maintaining the extremely high level of quality that Lago is known for. It's an equation that relies heavily on technology: I'm referring to one of the particularly valuable machines we purchased from Biesse – a small 'Brema Eko' – not only is it extremely flexible, it allows us

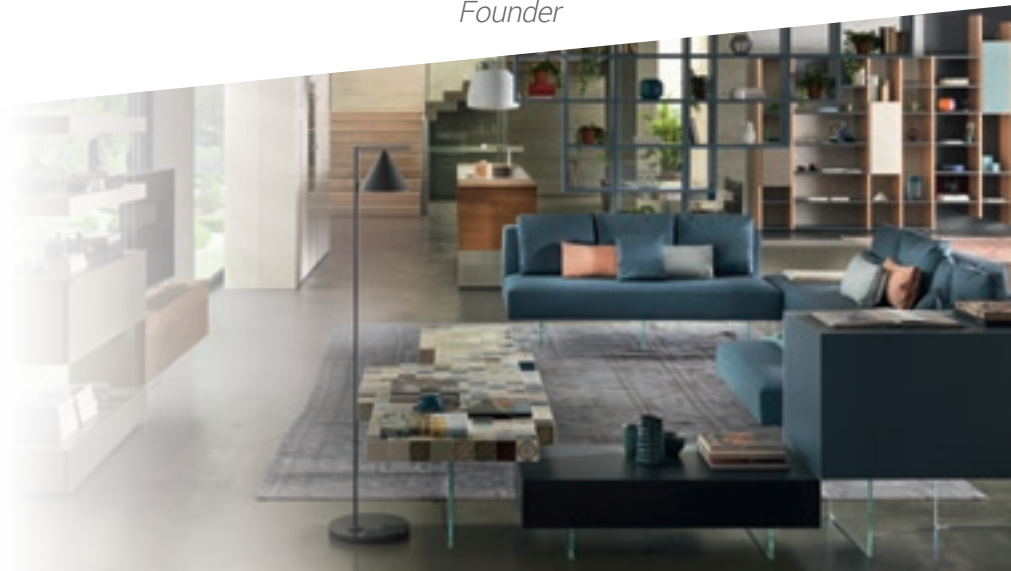
to greatly simplify some steps, since we can process painted pieces without worrying about damaging them.

It's proof that with clear ideas and a precisely organised work flow one can find simple solutions that produce excellent results."

**LAGO BELIEVES
THAT DESIGN MUST
BE GUIDED BY MAN,
BY HUMANITY AND
EMPATHY**



Daniele Lago
Founder



SOFTWARE FOR THE SMART, ASSISTED MANAGEMENT OF CUTTING PATTERNS



B_OPTI 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.

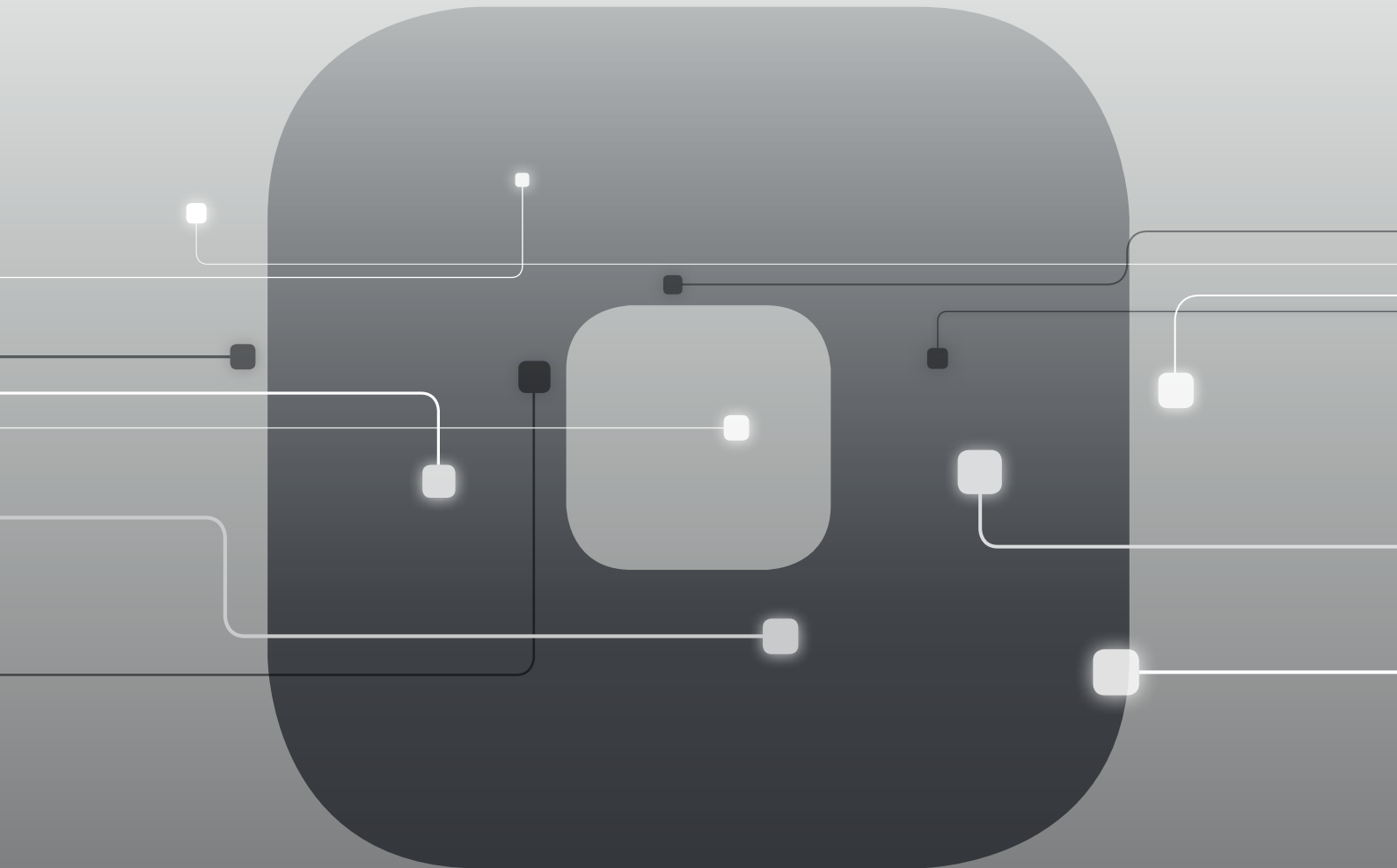
- Simple, user-friendly interface.
- Excellent reliability of the calculation algorithms for production batches in small and large companies.
- Automatic import of the cutting list generated by the software for the design of furniture items and/or ERP management systems.





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

CUSTOMER CARE IS WHO WE ARE

SERVICES is a new experience for our customers, to offer not just excellent technology but the added value of an increasingly direct connection with the company, the professionals who work there and the experience they embody.



ADVANCED DIAGNOSTICS

Digital channels for remote interaction online 24/7. Always ready to intervene on-site seven days a week.



A WORLDWIDE NETWORK

39 branch offices, over 300 certified agents, retailers in 120 countries, and spare parts warehouses in America, Europe and the Far East.



SPARE PARTS AVAILABLE IMMEDIATELY

Identification, shipping and delivery of spare parts for every need.



EVOLVED TRAINING OPPORTUNITIES

Lots of on-site, online and classroom training modules for personalised growth.



VALUABLE SERVICES

A wide range of services and software packages to help our customers achieve continuous improvements in performance.

AN EXCELLENT LEVEL OF SERVICE

+550

HIGHLY SPECIALISED
TECHNICIANS AROUND
THE WORLD, READY TO HELP
CUSTOMERS WITH EVERY
NEED

90%

OF MACHINE DOWN CASES
WITH RESPONSE TIME
UNDER 1 HOUR

+100

EXPERTS IN DIRECT
CONTACT THROUGH
REMOTE CONNECTIONS
AND TELESERVICE

92%

OF SPARE PARTS ORDERS
FOR MACHINE DOWNTIME
PROCESSED WITHIN 24
HOURS

+50.000

ITEMS IN STOCK IN THE
SPARE PARTS WAREHOUSES

+5.000

PREVENTIVE MAINTENANCE
VISITS

80%

OF SUPPORT REQUESTS
SOLVED ONLINE

96%

OF SPARE PARTS ORDERS
DELIVERED IN FULL ON TIME

88%

OF CASES SOLVED WITH
THE FIRST ON-SITE VISIT

Founded in Italy,
international native.

We simplify your
manufacturing
to make the process
of any material



ur
g process
potential
I shine.

We are an international company that manufactures integrated lines and machines to process wood, glass, stone, plastic and composite materials and what will come next.

Thanks to our rooted competence nurtured by an ever-growing worldwide network, we support your business evolution – empowering your imagination.

Master of materials, since 1969.

Join the
Biesse world.

[biesse.com](https://www.biesse.com)



