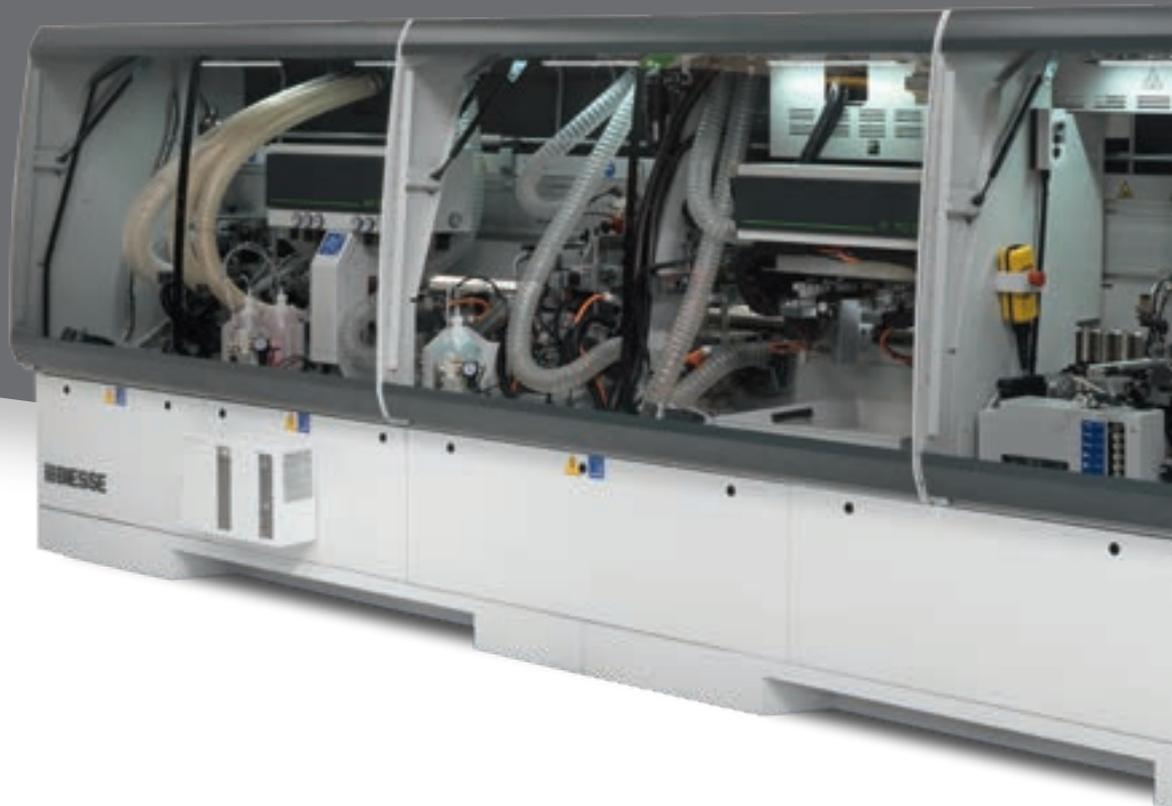


# STREAM A SMART

AUTOMATIC SINGLE-SIDED  
EDGE BANDING MACHINES



# EVOLVING TECHNOLOGY



## 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, as well as responding to the needs of highly creative designers.

## BIESSE MEETS

with **technological solutions** that guarantee high-quality lasting performance over long periods of time. **Stream A Smart** is the new range of automatic single-sided edgebanding machines, designed for artisan producers and small companies looking for ease of use and customised production.



WATCH THE VIDEO

# STREAM A SMART

- THE PRECISION OF AN INDUSTRIAL MACHINE THANKS TO THE STURDY STRUCTURE
- MACHINE CUSTOMISATION DEPENDING ON PRODUCTION REQUIREMENTS
- ADVANCED TECHNOLOGY FOR A PERFECT FINISH
- TOP QUALITY FINISHED PRODUCT

# THE PRECISION OF AN INDUSTRIAL MACHINE

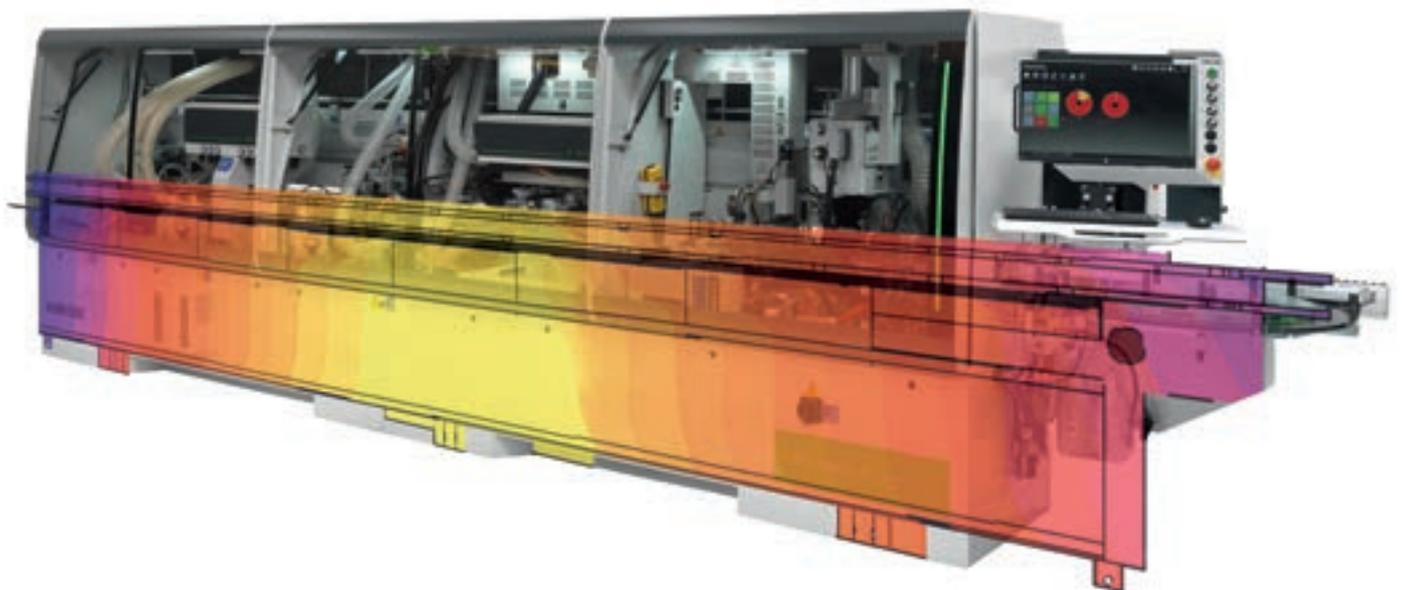
The sturdy structure guarantees the precision and reliability typical of production-line machines.

The **monolithic base** provides high stability and allows the machine to operate also over several work shifts whilst continuing to deliver high quality standards.



## +69% RIGIDITY

According to the FEM structural analysis that examines structural resistance, the rigidity of the components, deformation, kinematic mechanisms, etc., the new base is 69% more rigid. Reliability and outstanding precision prove once again to be a constant factor in Biesse technologies, guaranteed over time.



The sturdy 30 mm **columns**, fixed directly on the base, fully absorb all vibrations generated during machining.



The Belt Presser, which is standard in the Stream A Smart, allows the panel to run on the belt guaranteeing uniform pressure which is ideal even for more delicate coverings.



# NEW DESIGN



More spacious new design, optimised for greater practicality.

Vertical LED bar with different colours to understand the machine status at any moment.



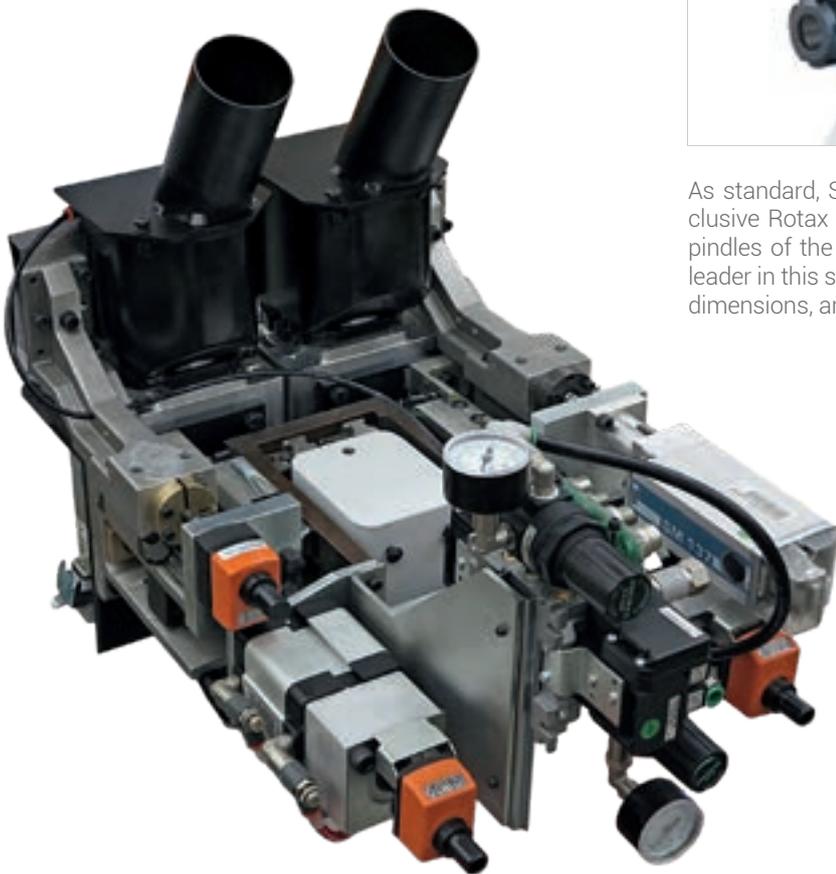
Sliding chip collection containers to keep the workplace clean at all times (opt).



# QUALITY EDGEBANDING



As standard, Stream uses only the electrospindles of the exclusive Rotax range on all the machines. These are electrospindles of the highest quality, designed and made by HSD (a leader in this sector); they guarantee optimum power, compact dimensions, and extremely high finishing standards.



The 2-motor **Pre-milling Unit** with automatic intervention guarantees a perfect base for glueing.



The **pre-milling copiers** allow to keep untouched the panel squaring.



The **autoset device** for Pre-milling unit ensures the automatic centering of the tool in relation to the panel, thereby improving quality while reducing set-up times.

High-tech solutions created  
to guarantee high quality standards.

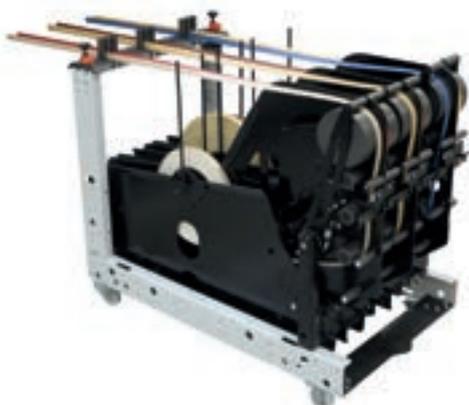
# APPLICATION OF EDGE BANDING OF ANY SIZE



Gluing unit for the automatic application of edging in rolls or strips, from 12 mm (22 mm opt). Developed as standard equipment for all technologies for maximum performance.

## Banding material container

Boosted flexibility and reduced tooling times, thanks to the magazine with up to 6 places for automatic edgeling strip replacement in real time.



## Minimal set-up times

Thanks to the ESM device, the coil magazine can be managed with minimum set-up times and coil consumption can be monitored in real time.



WATCH THE VIDEO

# HIGH GLOSS EDGE

## FLAWLESS EDGES

**Highly technological solutions for perfect machining of the most delicate surfaces as well as maximised productivity.**

The End Trimmer assembled on an Stream A Smart is the most competitive and high performance solution of its type. High range technology, ideal for delicate and High Gloss surfaces due to the copying and tracing system that doesn't involve any form of rubbing or scraping. It ensures an extremely reduced gap between panels (unique on the market), to increase productivity.

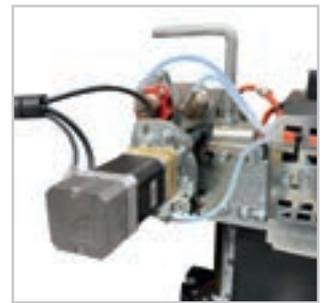


# MANY SOLUTIONS FOR OPTIMAL MANAGEMENT OF GLUE



## Glue pot

The **glue pot** is equipped with a pre-copying system to prevent direct contact between the roller and the panel, preserving the surface quality of the machined panel whilst allowing for a smooth and even application of glue, without wear to the glue pot.



## New hybrid glue head for using EVA and PUR

- ▣ One single glue head that can work with both EVA and PUR in granules
- ▣ High flexibility thanks to the automatic system that drains the glue from below
- ▣ Automatic roller cleaning cycle on the basis of the panel length
- ▣ CN axis for glue quantity adjustment (optional)
- ▣ Glue level sensor, Pop up alert in the screen when the glue is finishing



## Pre-melter for EVA glue

To meet all the priority machining needs:

- ▣ More glue available
- ▣ Easy control of the glue level.



## Pre-melter Top Melt TM20

New system for melting polyurethane glue from above.

- ▣ Perfect for high glue consumption
- ▣ PUR glue on demand, according to the amount of glue used
- ▣ Hermetically sealed system for extended glue life

# MAXIMUM MACHINING FLEXIBILITY AND EFFICIENCY

CARTRIDGE TUNK

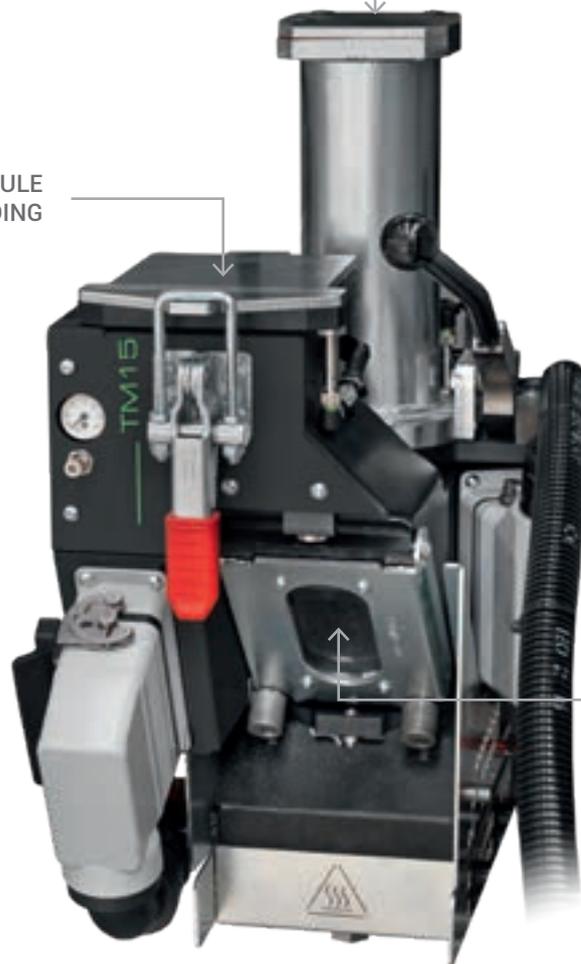
GRANULE  
LOADING

GRANULE  
UNLOADING

## TM15 Hybrid Top Melt pre-melter

New hybrid system for melting on-demand glue from above:

- ▣ Hybrid pre-melter for working PUR or EVA glue, to meet every possible need
- ▣ High flexibility thanks to the possibility to use glue either in granules or in small cartridges
- ▣ Hermetically sealed system for a long glue lifespan
- ▣ Quick and easy maintenance procedures that require no special skills of the operator and can be carried out following the dedicated tutorial videos



# AIR FORCE SYSTEM

## INVISIBLE EDGE BANDING

**No joints and no glue line, in perfect harmony with the panel.**

AirForce System, available on Biesse edgebanding machines, is based on the physical principle of convection. By using a compressed hot air system, the edge bonds perfectly with the panel guaranteeing resistance to water and heat and an excellent long lasting quality finish.



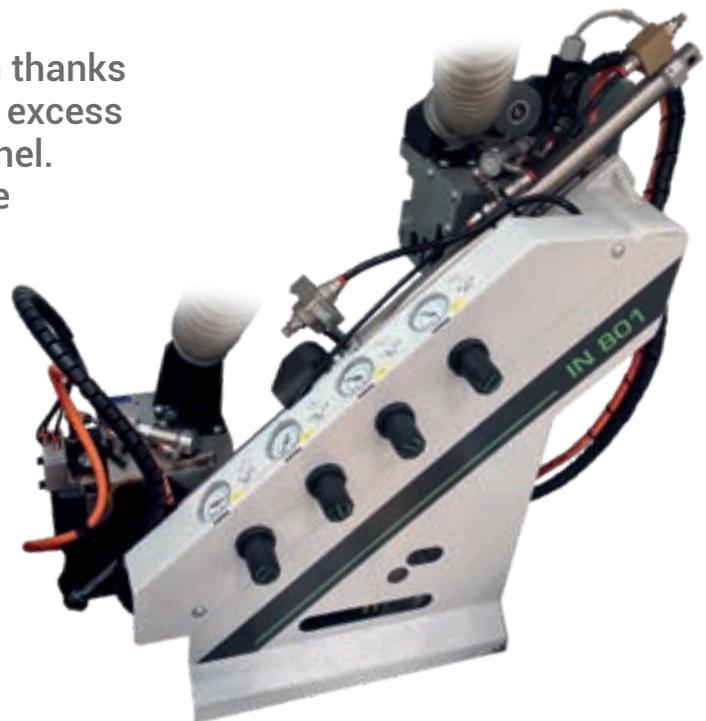
# MAXIMUM WORKING PRECISION

Unique innovations in this machine price range to meet productivity and quality requirements of the most demanding manufacturers.

Maximum cutting quality and precision thanks to the End Trimming Unit, enabling any excess to be eliminated at both ends of the panel. Two versions available according to the machining needs.

## IN801

The edge trimming unit, on its THK double guide rail, guarantees optimal vibration absorption.



The IN801 unit includes, as standards:

- ▣ The dynamic suctioning system that follows the blades' every move
- ▣ Automatic blade tilting
- ▣ Copying system suitable for processing hinge holes





The copying and tracing system guarantees optimal finish quality also on high-gloss edges.

**IT70P**

Linear edge trimming unit with stepper movement. Solid wood machining up to 12 mm, speed up to 25 m/min.

**IT 70 S**

Linear end trimmer for a perfect finish in any type of processing, speed up to 20 m/min.



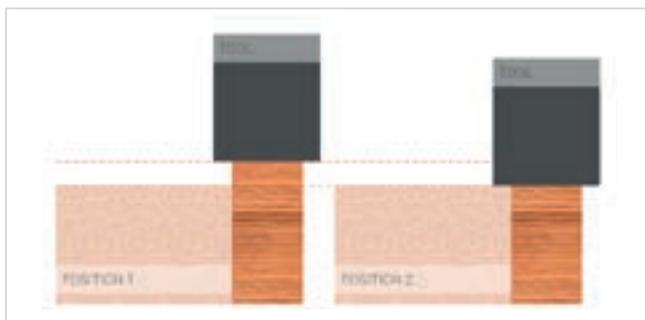
# REDUCED PRODUCTION TIME

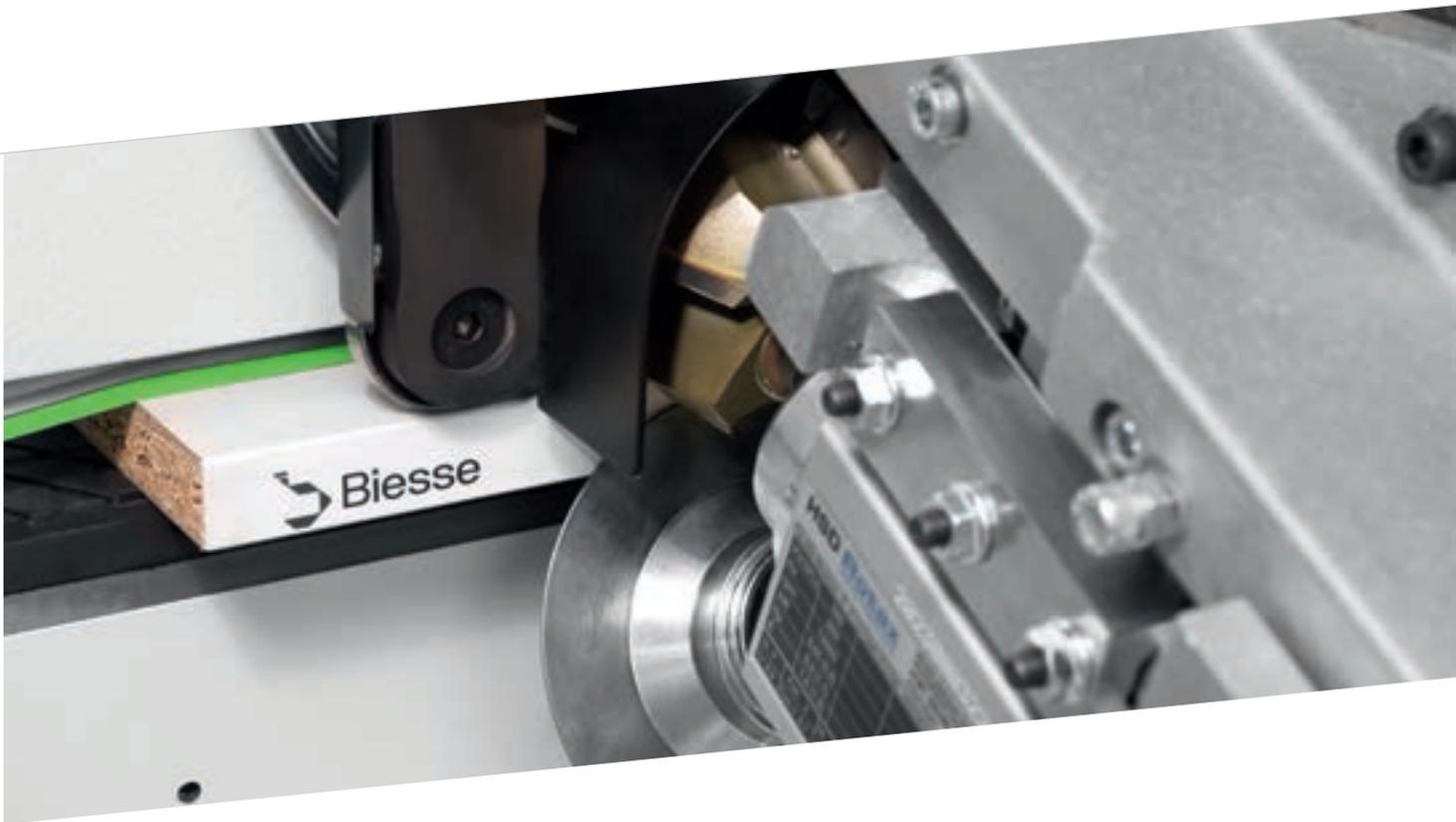


**Stream A Smart** offers personalized solutions that enable a reduction of set-up and machining times.

The **Rough Trimmer** reduces the excess edge on the top and bottom of the panel. It guarantees a perfect finish for solid wood, in one single movement.

**Duo System** is a device for the automatic changeover between the rough-shaping and finishing functions.





### **Fine trimmer unit**

trims or cuts the corners on the upper and lower edges of the edgbanding strip applied. Quick and easy adjustment, thanks to 4 controlled axes able to switch between 5 different true profiles and endless other intermediate positions to ensure the highest work quality. Complete with 2 high-frequency 0.65 kW motors (12000 rpm each).

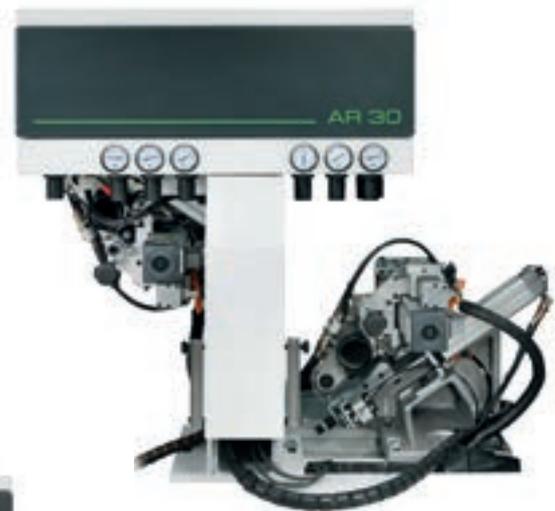
# UNIQUE TECHNOLOGY ON THE MARKET

Unique innovations in this machine price range to meet productivity and flexibility requirements of the most demanding manufacturers.

The multi-function **Corner Rounding Unit** forms a radius on both the front/rear and top/bottom edges.

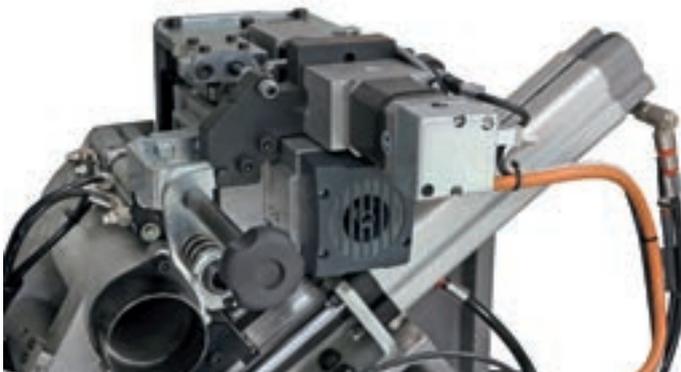
## AR30

Equipped with two engines for standard machining operations.



## AR34NC

Equipped with four engines to process even different materials such as rounded wood edges.



The controlled axis, fitted as standard on both version of the Corner Rounding unit, supports the management of infinite machining settings. The machine is perfectly suited to manufacturing needs.



## Q-System

Patented Q-System chuck with real-time profile change.

# FIRST CLASS TECHNOLOGY TO MEET THE NEEDS OF FLEXIBILITY AND PRODUCTIVITY

## AR70 electronic rounding device

Completes the head and tail of the panel.

- 3 brushless motors for fast and precise movements
- Diamond tool with 5 profiles for maximum processing flexibility
- Unprecedented quality finish thanks to high frequency electrospindle 18000 rpm with HSK coupling



Reliability  
and performance  
without compromise.



# ATTENTION TO DETAIL

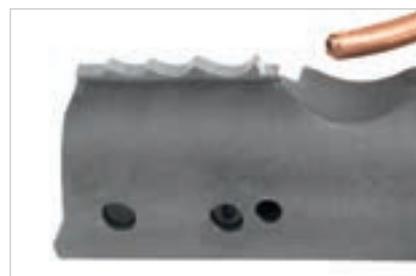


**Edge-scraper unit** on a column. Quick and easy adjustment, thanks to 4 controlled axes able to switch between 5 different true profiles and endless other intermediate positions to ensure the highest work quality.



The **Edge scraper** eliminates the imperfections resulting from previous machining operations on the top and bottom of the edge.

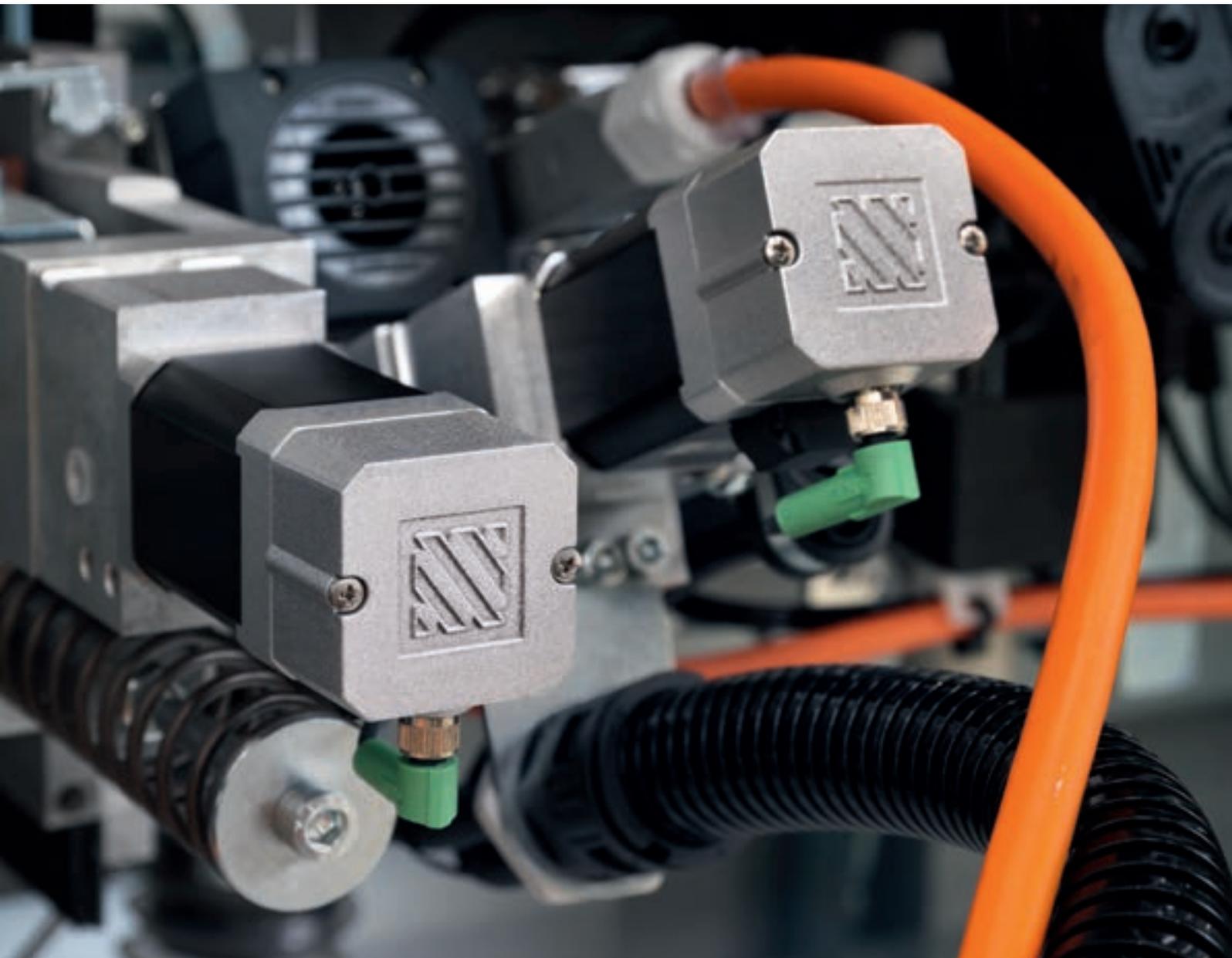
The axes on the edge-scraper unit enable automatic positioning in an unlimited range of positions, in accordance with the thickness of the edgebanding strip (opt.).



The Grooving unit can be tilted from 0 to 90°. It produces grooves and milling on the underside on the edge of the panel.

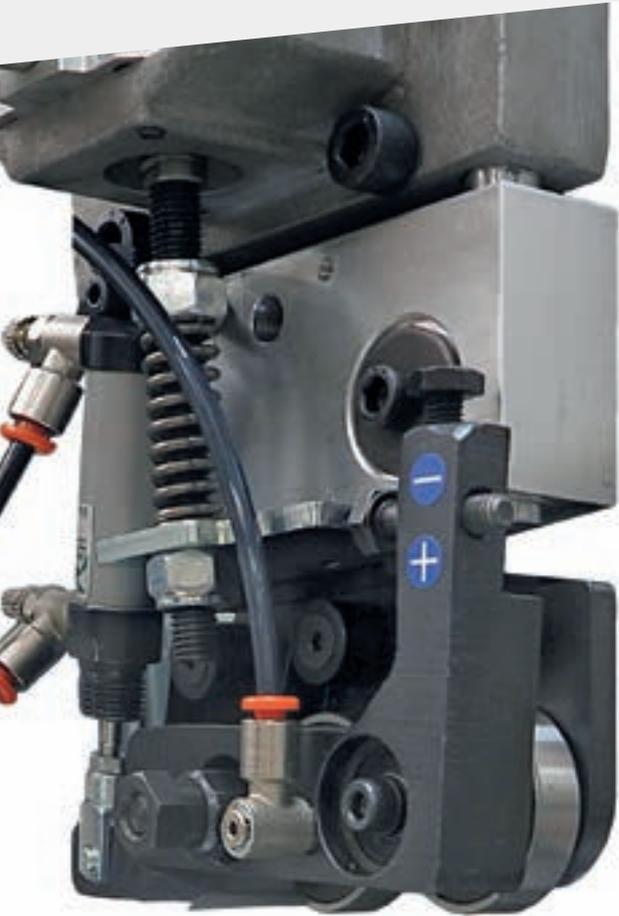
## TOP QUALITY CHARACTER

Unprecedented product quality and reduced machining times, thanks to technological solutions created for the specific day-to-day work.



The automatic axes of the working units have a reading system that allows the machine to know -at any time -if the setting is correct. They are fitted with motors with a positioning tolerance of 0.01 mm, for optimum machining accuracy. Their compact size considerably extends their range of application. Changeover time reduced by 75%.

# ULTIMATE RESULTS FOR FINISHED PRODUCTS



**Buffing unit** to clean and polish the edge and the panel.



**Hot air blower** for reactivating the color of the edges.



High quality results even with **high-gloss edged panels** with protective film.

# TECHNOLOGY AT THE USER'S SERVICE



Advanced Statistics for monitoring productivity:

- ▣ Different types of charts available to understand and improve edgebanding machine performance
- ▣ Sub-division of the production statistics on the basis of the batch or the time gap
- ▣ Mobile app for keeping in contact with the machine status at all times.

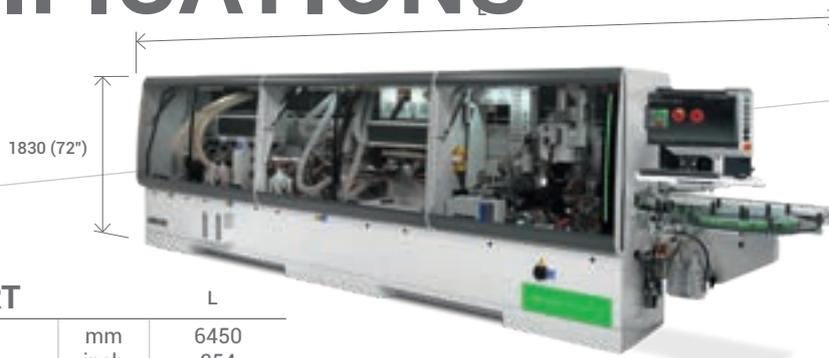
## New SMART TOUCH control 23"

Immediate, user-friendly programming thanks to the touch-screen control panel.

- ▣ Easy program management and usability
- ▣ Rapid transition from one machining operation to the next
- ▣ Modern, intuitive graphic interface

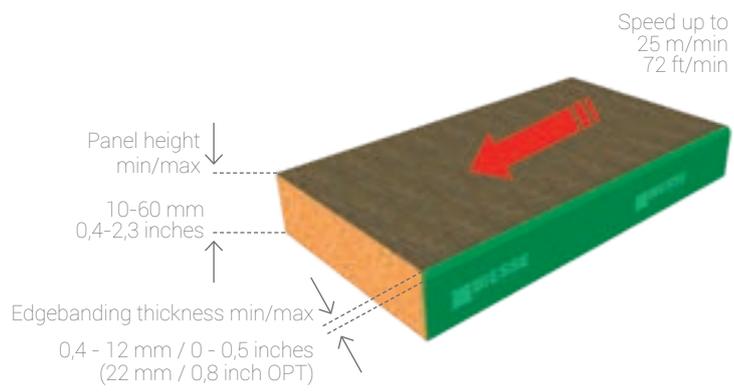


# TECHNICAL SPECIFICATIONS



## STREAM A SMART

		L
Stream A Smart / 5.0	mm inch	6450 254
Stream A Smart / 5.5 A	mm inch	6950 274
Stream A Smart / 5.5 B	mm inch	6950 274
Stream A Smart / 5.5 C	mm inch	6950 274
Stream A Smart / 6.0 A	mm inch	7450 293
Stream A Smart / 6.0 B	mm inch	7450 293
Stream A Smart / 6.0 C	mm inch	7450 293

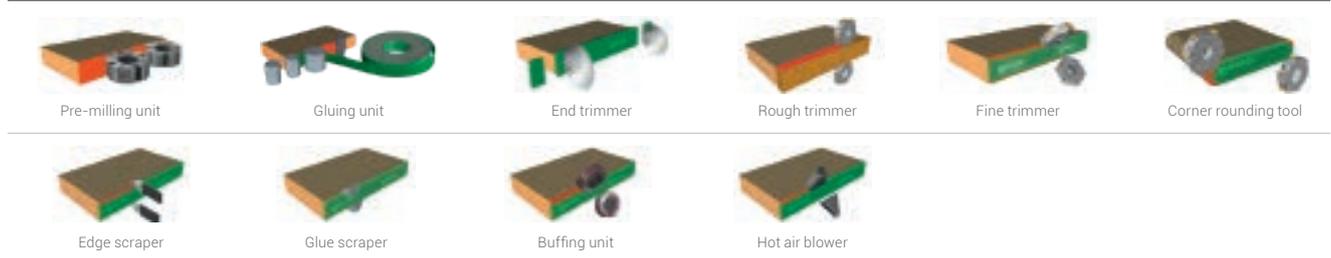


Speed up to  
25 m/min  
72 ft/min

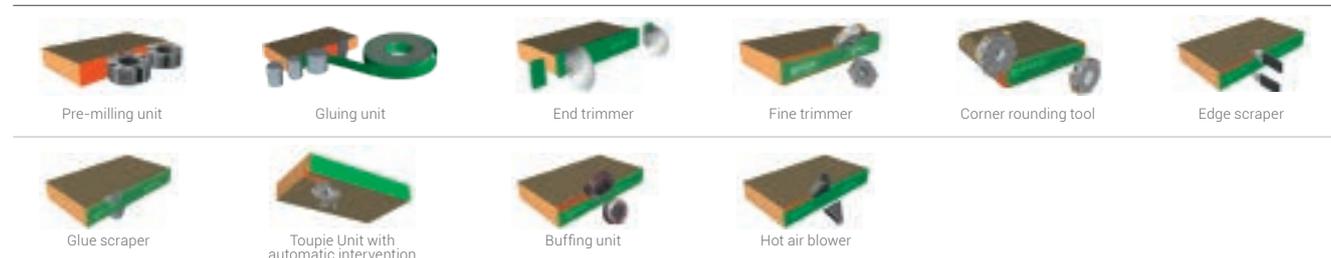
## STREAM A SMART 5.0



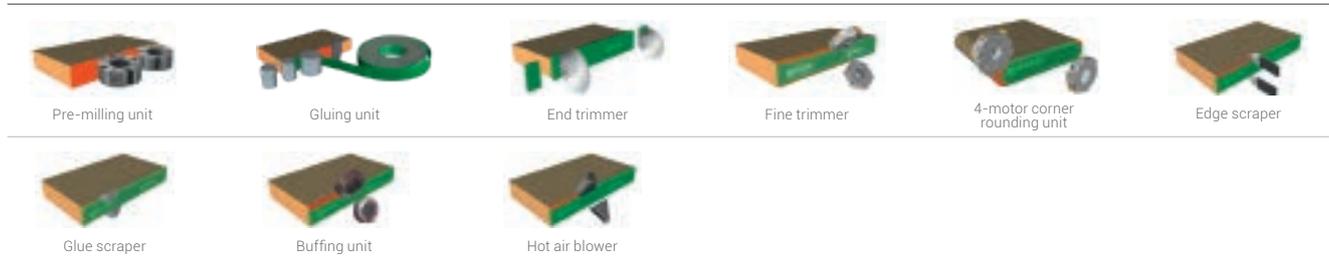
## STREAM A SMART 5.5 A



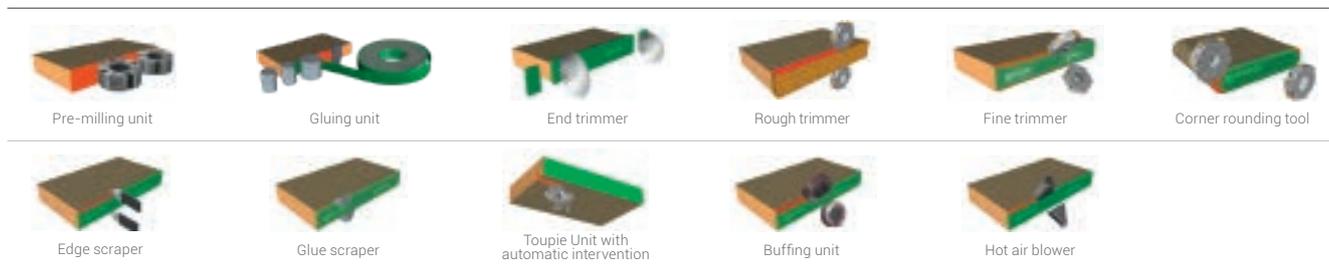
## STREAM A SMART 5.5 B



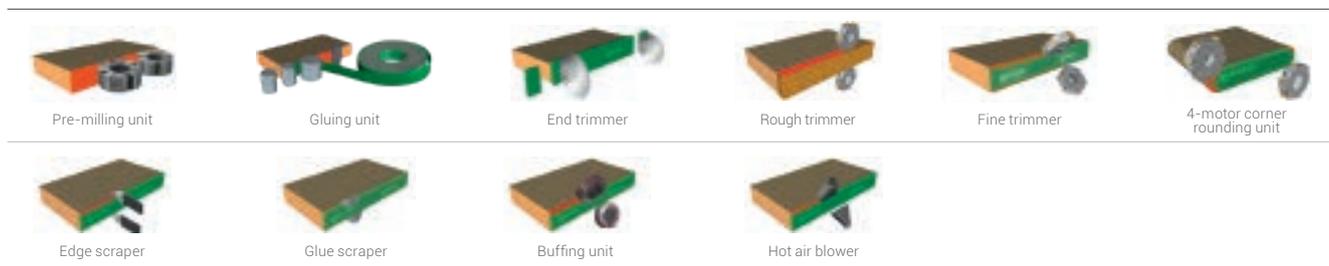
## STREAM A SMART 5.5 C



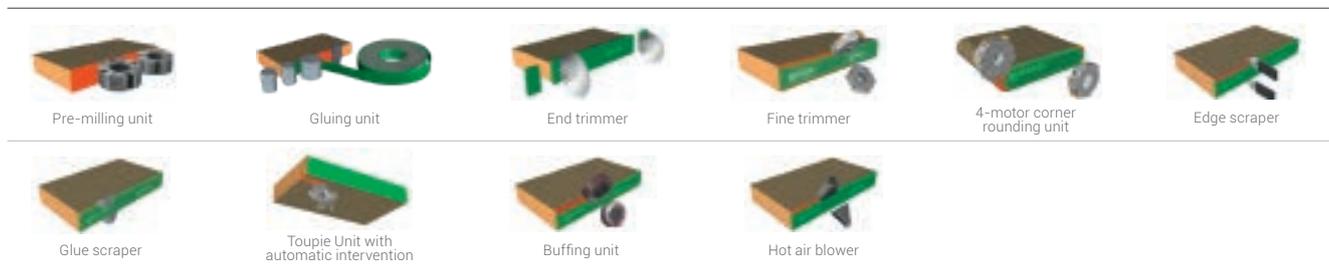
## STREAM A SMART 6.0 A



## STREAM A SMART 6.0 B



## STREAM A SMART 6.0 C



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 (Lp<sub>fA</sub>) 81,36 dB (A). Weighted noise level A (L<sub>wA</sub>) 99,94 dB (A). With AFS glueing device: Weighted surface noise level A (Lp<sub>fA</sub>) 87,38 dB (A). Weighted noise level A (L<sub>wA</sub>) 105,35 dB (A). Measurement uncertainty K = 4 dB (A).

The measurement was carried out in compliance with UNI EN ISO 18217, UNI EN ISO 3746, UNI EN ISO 11202 and subsequent modifications. The noise levels shown are emission levels and do not necessarily correspond to safe operation 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 operating personnel are exposed include the length of exposure, the characteristics of the work environment, other emission sources (e.g. the number of machines and machining operations nearby). At any rate, the above information allows the operator to better evaluate dangers and risks.

# OPTIMISATION OF STAND-ALONE PROCESS

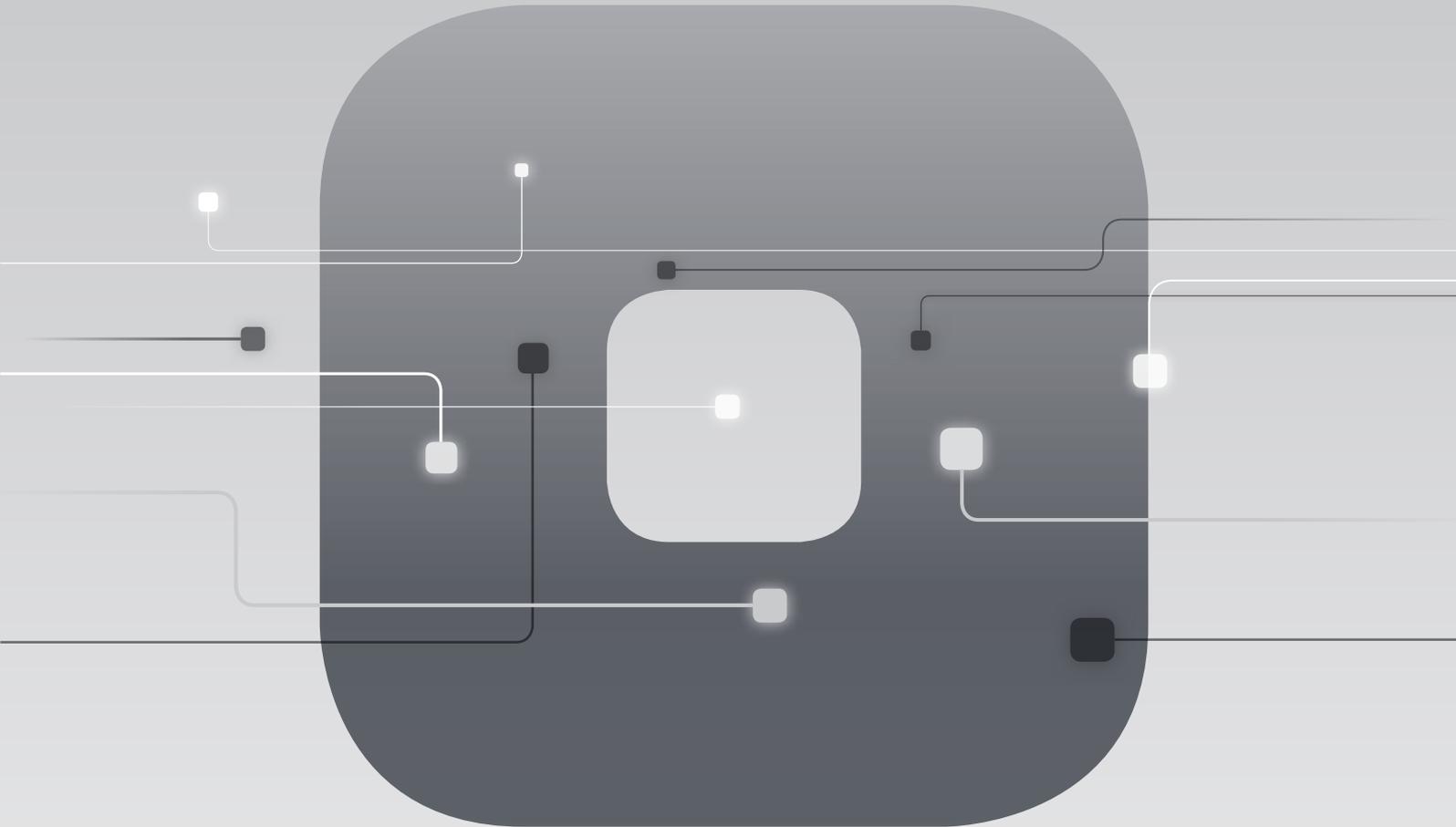


## PRS panel return

- Increased productivity in a stand-alone context
- Management of entire edgebanding process with just one operator

# SOPHIA

GREATER VALUE FROM MACHINES



The Biesse IoT platform which enables customers to access an extensive range of services to streamline and rationalise their work management processes.

□ SERVICES

□ PROACTIVITY

□ ANALYSIS



# 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

**90%**

OF MACHINE DOWN CASES  
WITH RESPONSE TIMES  
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

# MADE WITH BIESSÉ

## LE BOONE INTERNATIONAL TOP PRODUCTION WITH INTEGRATION AND AUTOMATION

Le Boone International was founded in 1950 by Jan Van Hecke, and has since become a worldwide point of reference in the furnishing sector.

Over the last thirty years, the company has specialised in the design and production of furniture items that optimise the space in the rooms where they're used, from the home to the workplace.

Despite its growth within the market, the company has maintained its production site in Poperinge, Belgium.

"Our market includes various target groups, from people looking for space to those who want to transform it and those who want to live one single area of the home in a multi-purpose way" explains Jan Van Hecke. Le Boone International was set up in a period when house prices were growing all the time: "with the rooms getting smaller, I glimpsed an opportunity. Thirty years ago, I started

creating solutions for safeguarding space, fitting out small rooms with furniture items that had a dual function so the room could be a living room by day and a bedroom at night" says Van Hecke.

The market of Le Boone International developed enormously within a short space of time, and that's why the company soon began to feel the need for machinery that would help speed up the production process so that the many market requests could be met. It decided straight away to invest, purchasing a whole Biesse line that now allows it to greatly reduce production and shipment times.

"After thoroughly analysing the market and evaluating the various solutions, we turned to Biesse. We received substantial technical support during the initial phase of choosing the product, discovering the multitude of possibilities in the huge Biesse range. Six months ago, we opted for a complete solu-

tion with a number of machines that work simultaneously in a line. "First of all", continues Jan Van Hecke, "the Brema Eko 2.1, a vertical boring machine for real time panel machining, the Stream A lateral edgebanding machine, and the Selco WN6 - a panel saw that stands out from its competitors for its amazing flexibility. The extent of the range, the flexibility of the products and the integration of technologies are the factors that have confirmed the efficacy and validity of our choice. For us, this has meant notable time saving, to the extent that after just one month we went from 3-month delivery times to just one and a half weeks, or two at the most. And all this with a general increase in the quality level as well. As a result, we've purchased a total of three Biesse machines", concludes Van Hecke.



Founded in Italy,  
international native.

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.

We simplify your  
manufacturing  
process to make  
the potential of  
any material  
shine.



Join the  
Biesse world.

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



