

# AKRON 1300

AUTOMATIC SINGLE-SIDED  
EDGEBANDING MACHINES



 **BIESSE**

# MODEST INVESTMENT, HIGH RANGE TECHNOLOGY



WATCH THE VIDEO

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

## BIESSE MEETS

these requirements with **technological solutions** that highlight and support technical expertise as well as process and material knowledge. **Akron 1300** is a range of automatic single-sided edgebanding machines purposely created for craftsmen and companies looking for user-friendly, customised production, flexible solutions in a limited space.



## **AKRON** 1300

- ✓ BUILT ACCORDING TO THE SPECIFIC PRODUCTION REQUIREMENTS
- ✓ HIGH FINISH QUALITY
- ✓ MAXIMUM WORKING PRECISION
- ✓ TECHNOLOGY AT THE SERVICE OF THE USER



# 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).

# HIGH FINISH QUALITY



Perfect finish, due to the 2-motor Pre-milling unit with automatic intervention.

**HSD**  
MECHATRONICS



**Rotax**  
electrospindle

As standard, Akron 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.

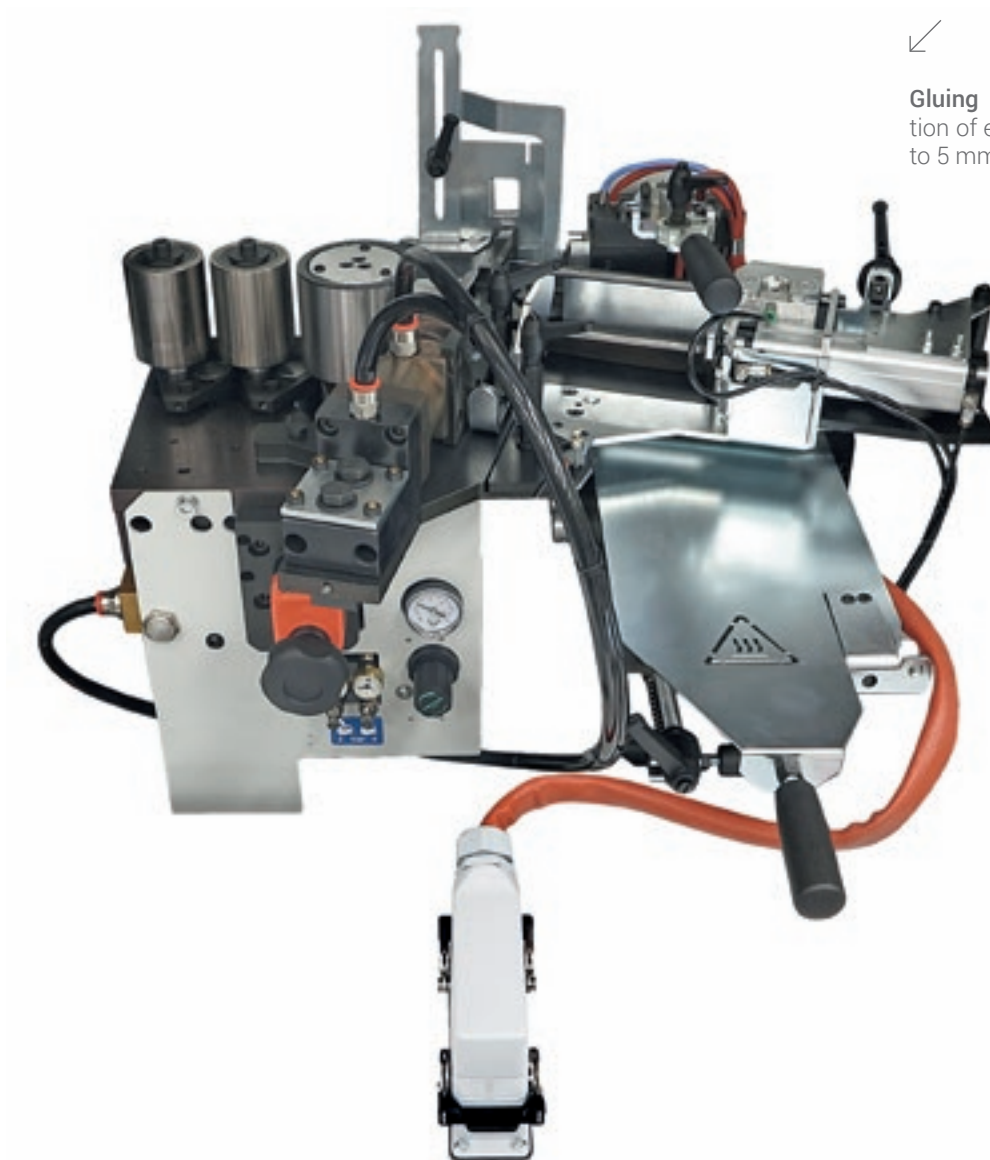


The **Pre-milling Autoset** device for the automatic centring of the tool on the panel improves quality whilst reducing set-up times.



# GROUND-BREAKING TECHNOLOGY, FOR TOP PERFORMANCE

Our specific Research & Development team creates pioneering solutions to meet the market requirements and offer cutting edge technology that's reliable and guarantees first class results.

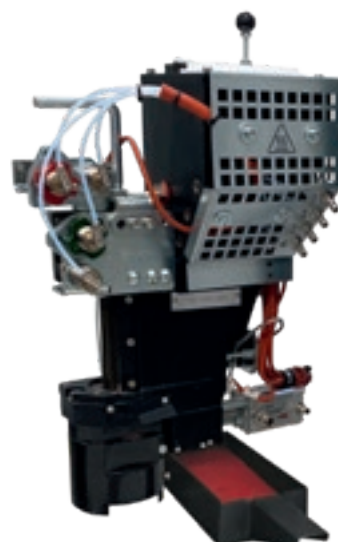


**Gluing unit** for the automatic application of edging in rolls or strips, from 0.4 to 5 mm.



#### 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.
- ✓ 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.



#### Prefusore Top Melt TM10

New system for melting polyurethane glue from above.

- ✓ High flexibility of use thanks to small cartridge size.
- ✓ PUR glue on demand, according to the amount of glue used.
- ✓ Hermetically sealed system for extended glue life.

# AIR FORCE SYSTEM

## INVISIBLE EDGEBANDING

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

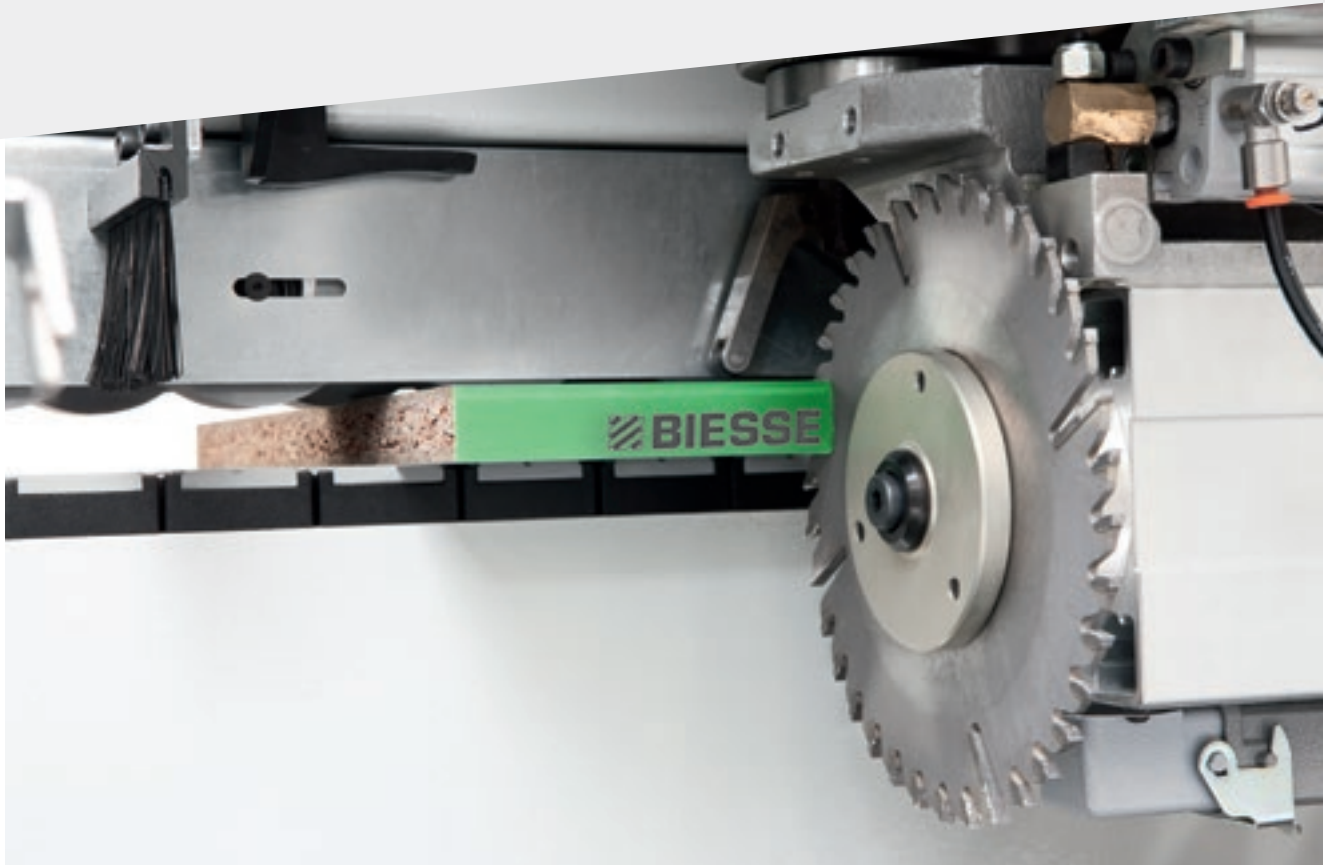
Air Force System, available on Biesse edgebanding machines, is based on the physical principle of convection. By using a compressed hot air system, the edge bonds perfectly with the panel guaranteeing resistance to water and heat and an excellent long lasting quality finish.



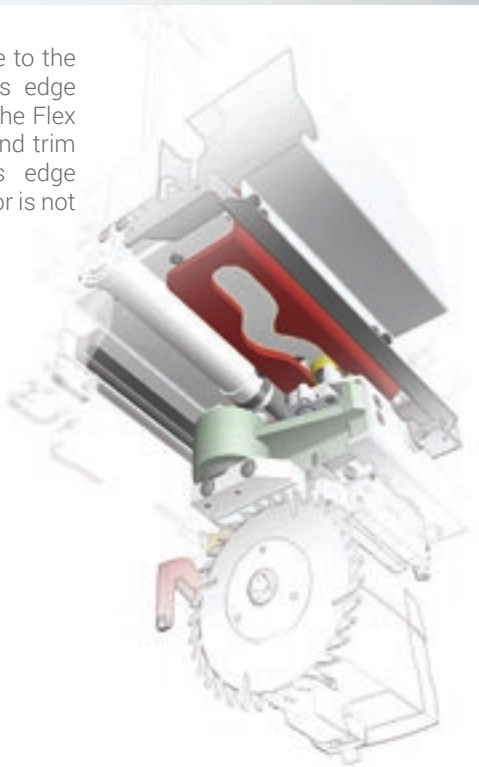


# MAXIMUM WORKING PRECISION

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

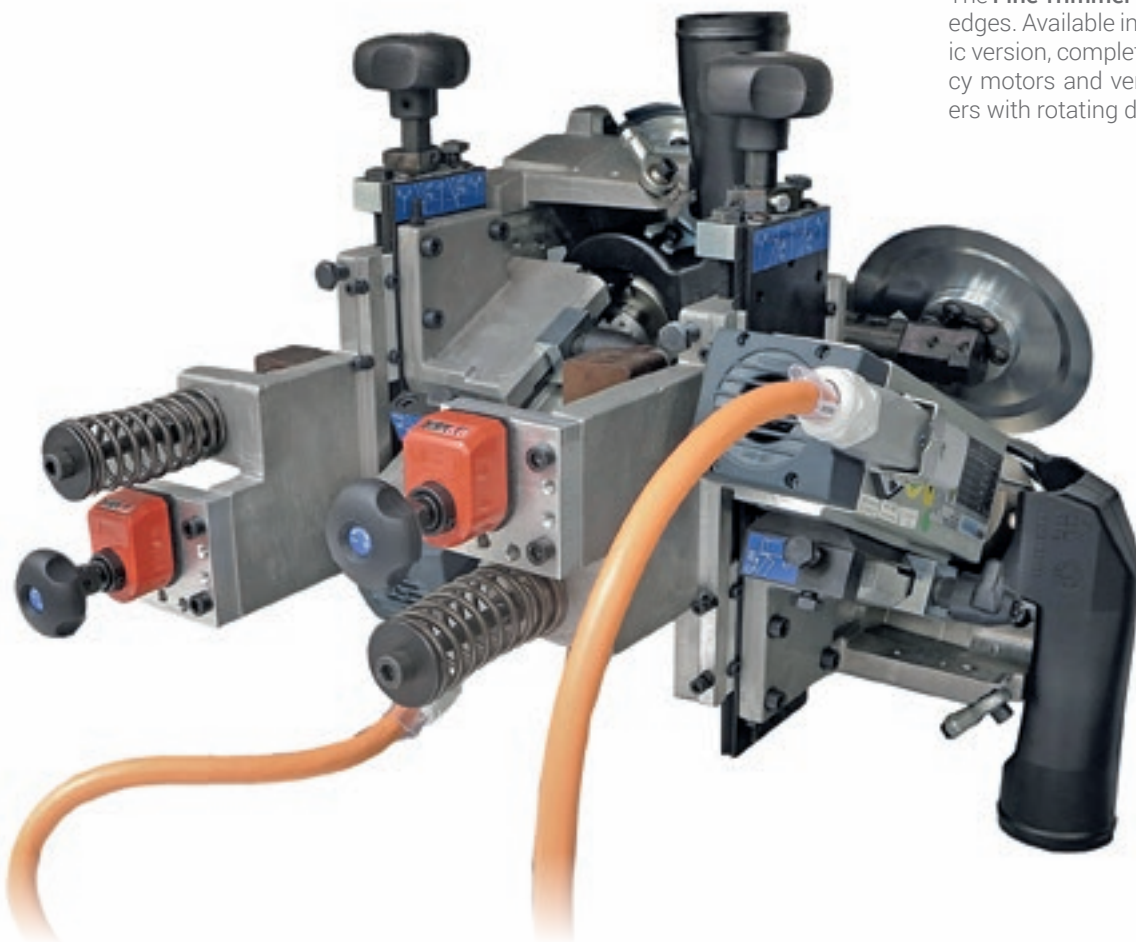


Reliability and cutting accuracy, due to the End Trimmer that removes excess edge at the front and rear of the panel. The Flex system, which is standard on the end trim automatically adjusts the excess edge whether the corner rounding unit is or is not being used.

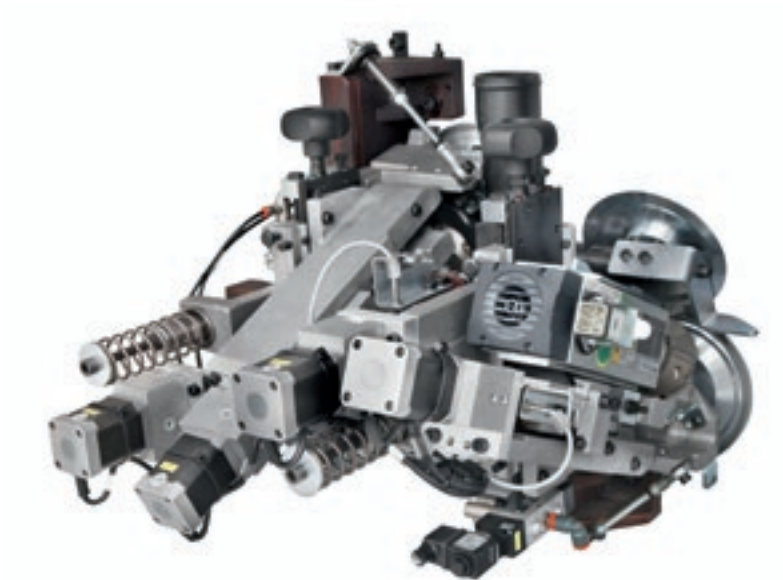


Optimal quality, accuracy and reliability with the new DESMO linear edge trimming unit, with "tracking" copying system.





The **Fine Trimmer** for the top and bottom edges. Available in a manual or automatic version, complete with 2 high-frequency motors and vertical/ horizontal copiers with rotating disc.



#### **Stepper Motor**

The working units can all be equipped with automatic axis for the machining changeover. Fitted with motors with an axis positioning tolerance of 0.01 mm, they ensure optimum machining accuracy.

# HIGH GLOSS EDGES



## FLAWLESS EDGES

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

The End Trimmer assembled on an Akron 1300 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.

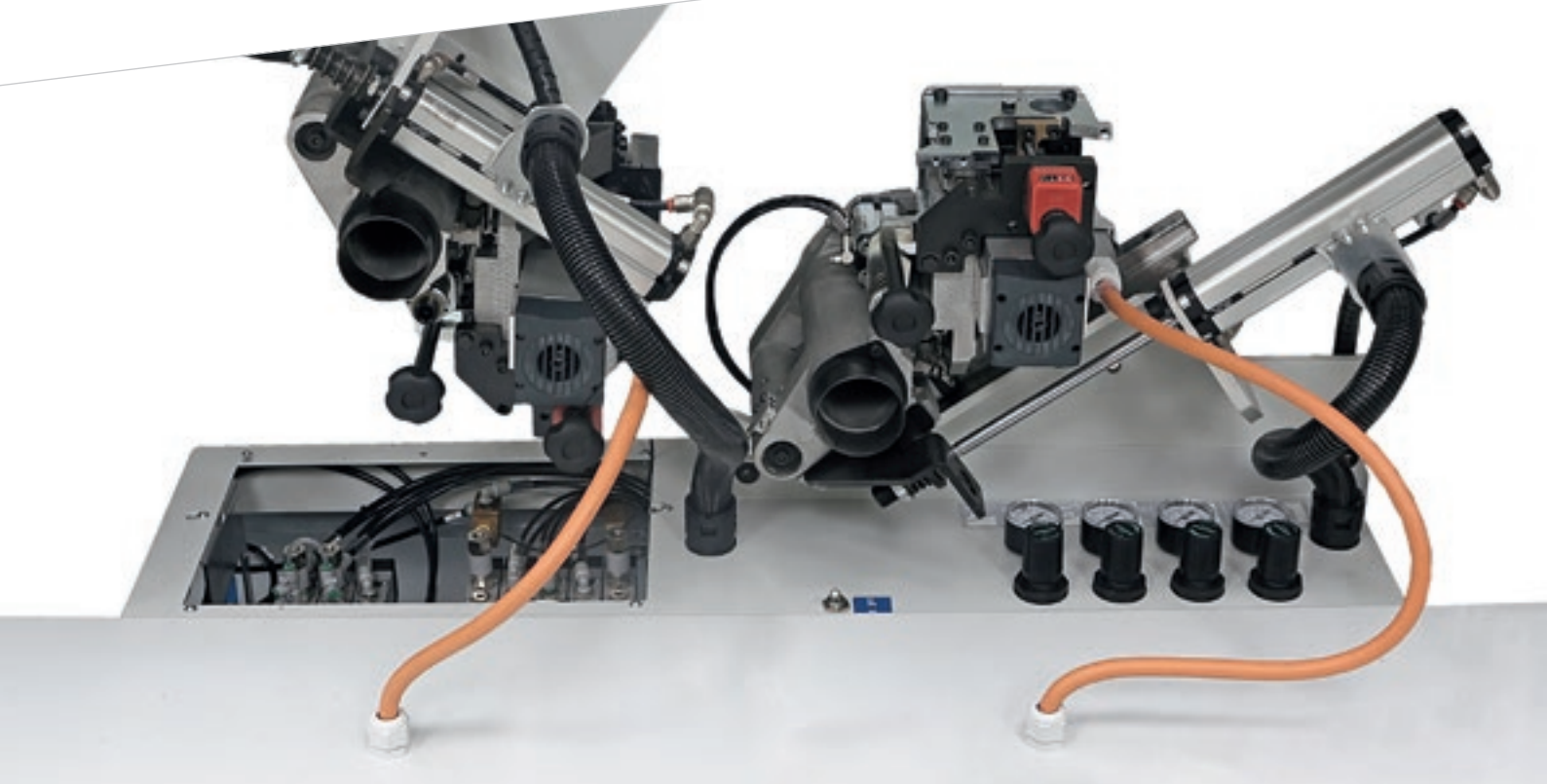


# BIESSE

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# HIGH QUALITY PRODUCTS

The multipurpose Corner rounding tool with two motors is used to apply radiusing not only on the front and rear edges but also on the upper and lower parts of the panel.



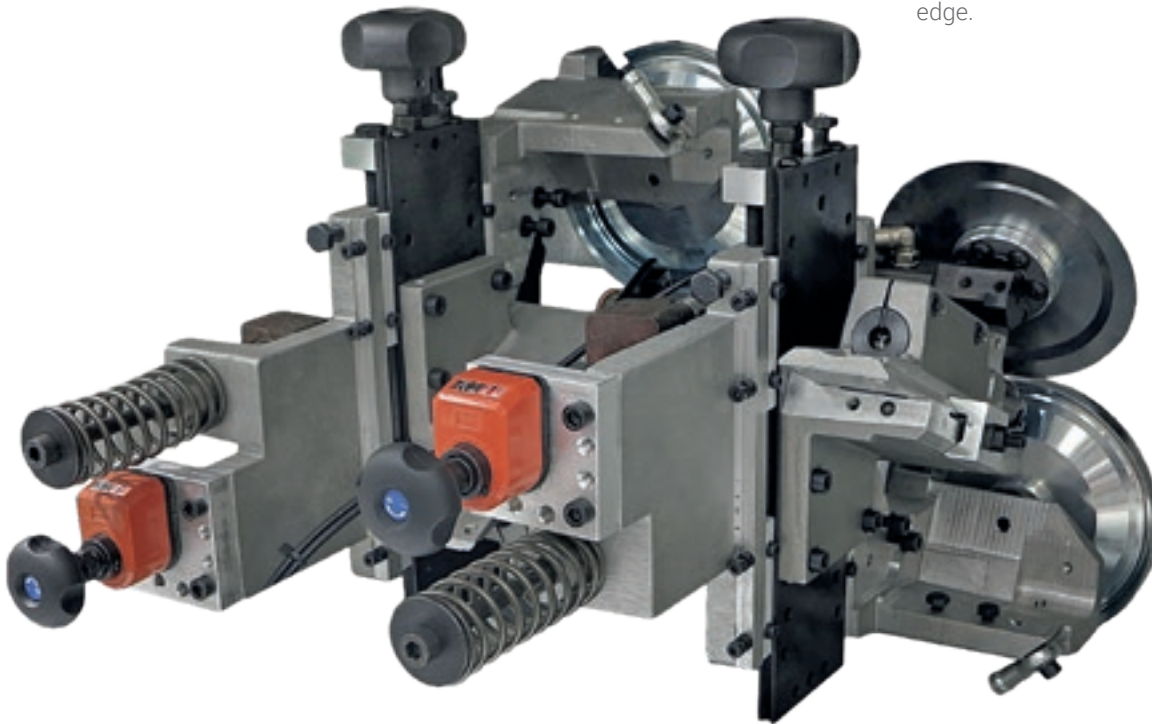
The **Rough Trimmer** reduces the excess edge on the upper part of the panel.



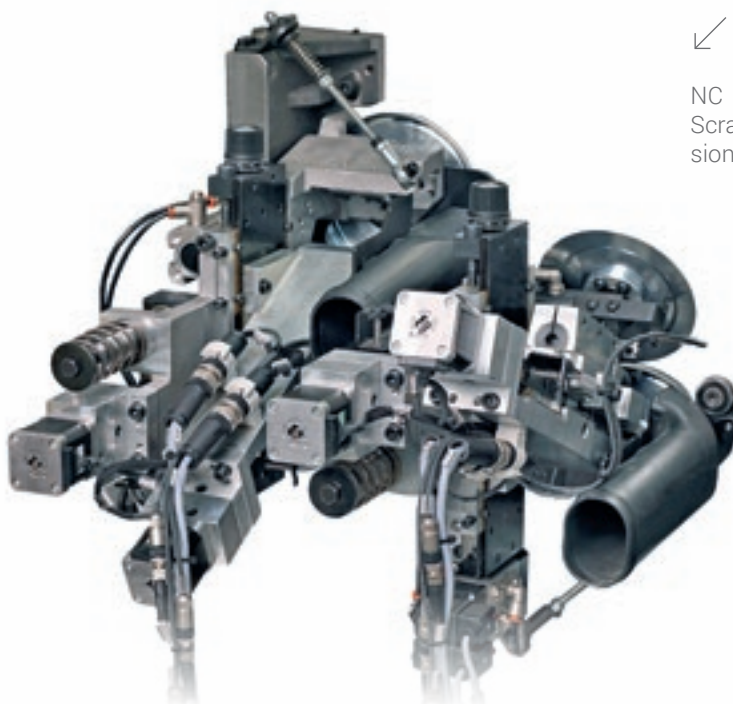
The **Grooving Unit** creates grooves and performs milling operations on the underside of the panel.



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



NC axes also available on the Edge Scraper, for excellent machining precision.



# IDENTITY



## PRACTICAL DESIGN

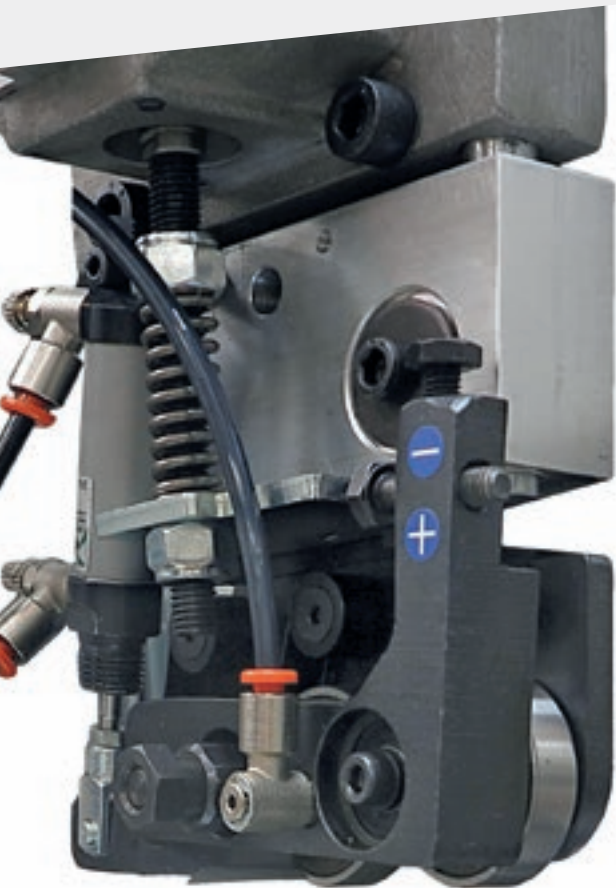
**An innovative yet simple design is the hallmark of Biesse's distinctive identity.**

The transparent polycarbonate reinforced protection door is designed to guarantee maximum visibility for the operator. Fitted with 5-colour LEDs indicating machine status, it ensures that processing phases can be easily monitored.





# PERFECT FINISH ON EVERY TYPE OF MACHINING OPERATION



The **Glue Scraper** removes excess glue from the top and underside of the panel. This is the only model on the market fitted with 4 pneumatic cylinders for a top quality finish.



**Buffing unit** for cleaning and polishing the edge and panel.

# TECHNOLOGY AT THE SERVICE OF THE USER



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 23" control

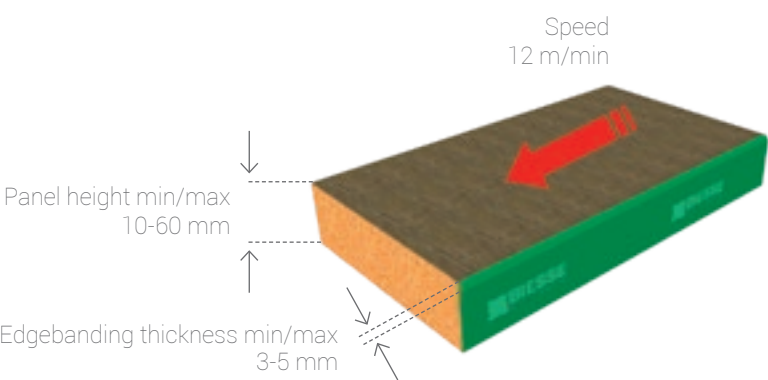
Simple, user friendly programming thanks to the touchscreen control panel.



# TECHNICAL SPECIFICATIONS



		L
Akron 1320	mm	4007
Akron 1330	mm	5060



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>) 79,66 dB (A). Weighted noise level A (L<sub>wA</sub>) 98,44 dB (A). With AFS gluing device: Weighted surface noise level A (Lp<sub>fA</sub>) 81,95 dB (A). Weighted noise level A (L<sub>wA</sub>) 100,72 dB (A). Uncertainty of measurement 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.

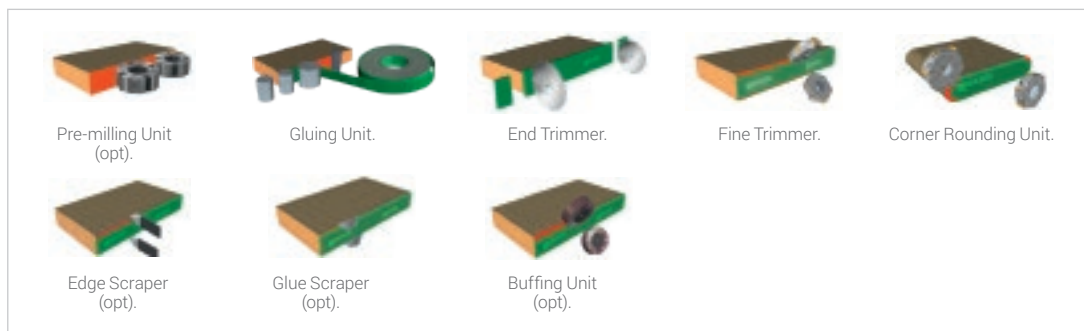


# AVAILABLE CONFIGURATIONS

## Akron 1320



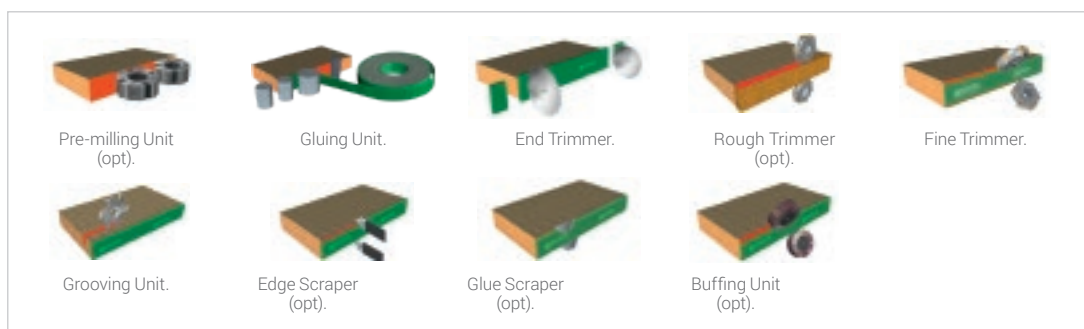
## Akron 1330 - A



## Akron 1330 - B



## Akron 1330 - C



# 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 **accenture**

# SERVICE & 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 pro-

duction 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



# 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**

