BIESSE AKRON 1400

Automatic single-sided edgebanding machines

When competitiveness means extending your production

Made In Biesse

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** while offering product customization with **quick and defined delivery times**, as well as responding to the needs of highly creative designers.

Biesse responds

with **technological solutions** which underline and support technical expertise, as well as process and material knowledge. The **Akron 1400** is a range of single-sided edgebanding machines for the application of edging in either rolls or strips. Compact working units designed to simplify the preparation operations are available with various configurations to suit specific production requirements.

- ☑ **Built according to the specific production requirements.**
- ☑ **Ground-breaking technology, for top performance.**
- ☑ **Perfect finishes with every type of process.**
- ☑ **Top quality finished product.**

For present and future growth

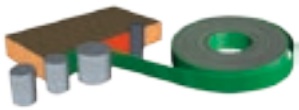
AKRON 1400

Automatic single-sided edgebanding machines

Built according to the specific machining needs

Biesse edgebanding machines are the only ones on the market built for your specific processing needs. They can subsequently be re-configured to meet any new production requirements.

Pre-milling unit.

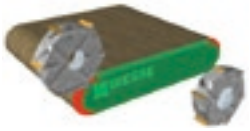


Gluing unit.

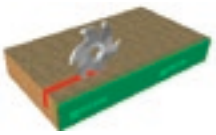
End trimmer.

Rough trimmer.

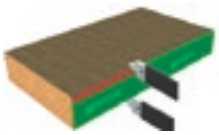
Fine trimmer.



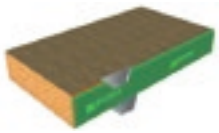
Corner rounding tool.



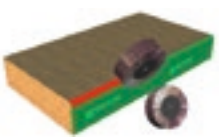
Grooving unit.



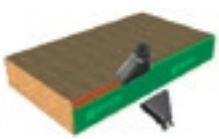
Edge scraper.



Glue scraper.



Buffing unit.

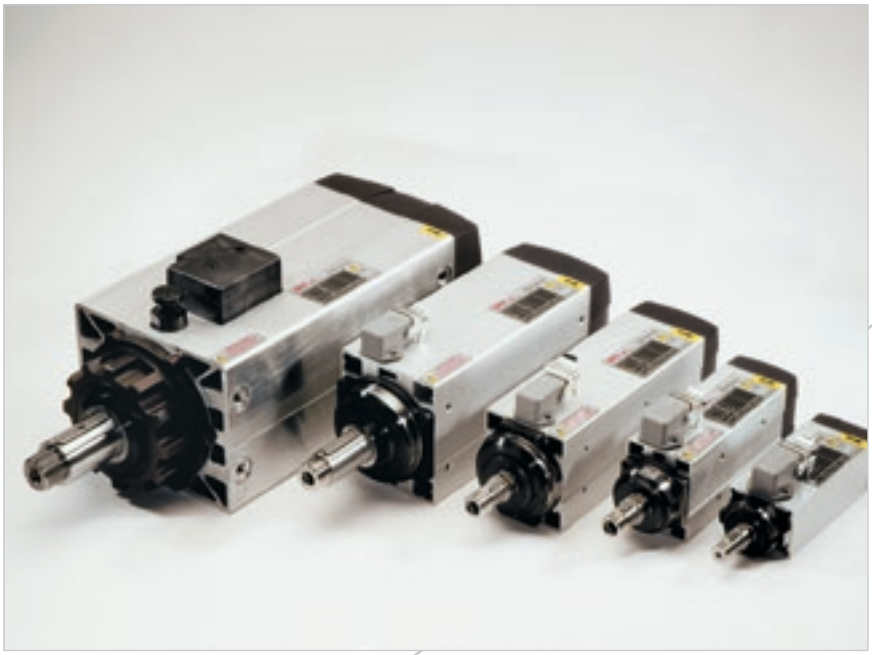


Hot air blower.

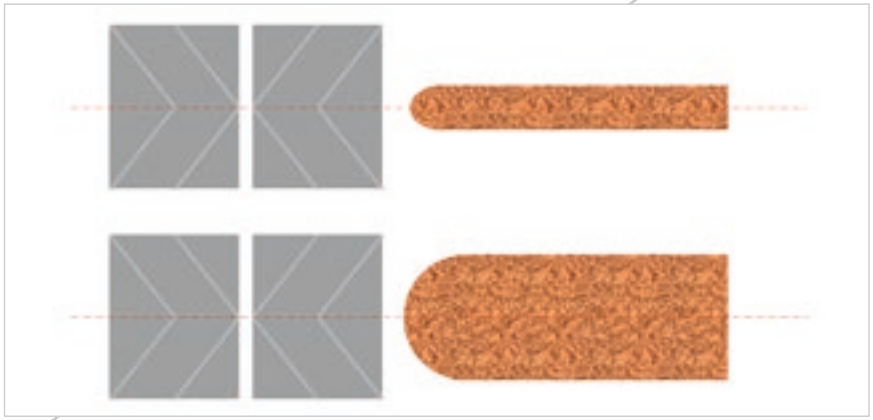
Ground-breaking technology, for top performance

A 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.

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



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

Application of edgebanding of any size

Gluing unit for the automatic application of edging in rolls or strips, from 0.4 to 12mm.

Device for setting the unit automatically, to suit the edging thickness.

Pre-melter for EVA glue.
To meet all the priority machining needs.

- ☑ **More glue available.**
- ☑ **Easy control of the glue level.**

gPoD pre-melter with "PUR on demand" function for polyurethane glue, to satisfy even the most complex machining requirements thanks to its excellent melting capacity.

Invisible Edgebanding

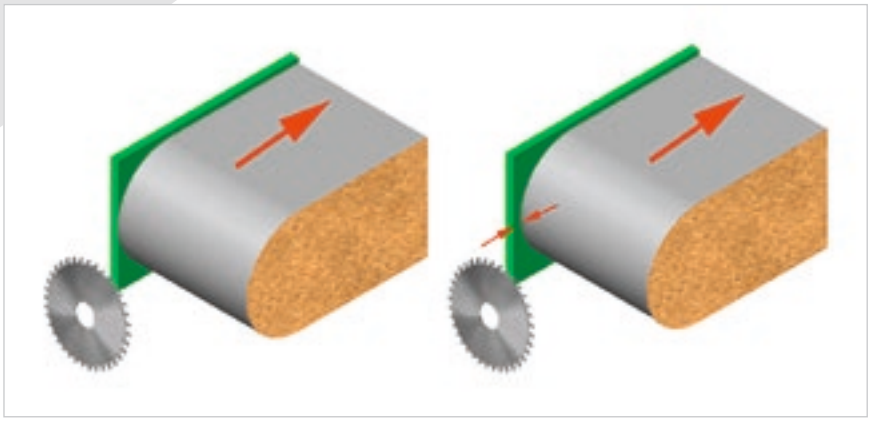
Air Force System, available on Biesse edgebanding machines, is based on the physical principle of convection. By using a compressed hot air system, the edge bonds perfectly with the panel guaranteeing resistance to water and heat and an excellent long lasting quality finish.

AIR FORCE SYSTEM

No joints and no glue line, in perfect harmony with the panel. A perfect combination of Biesse quality and Italian genius.

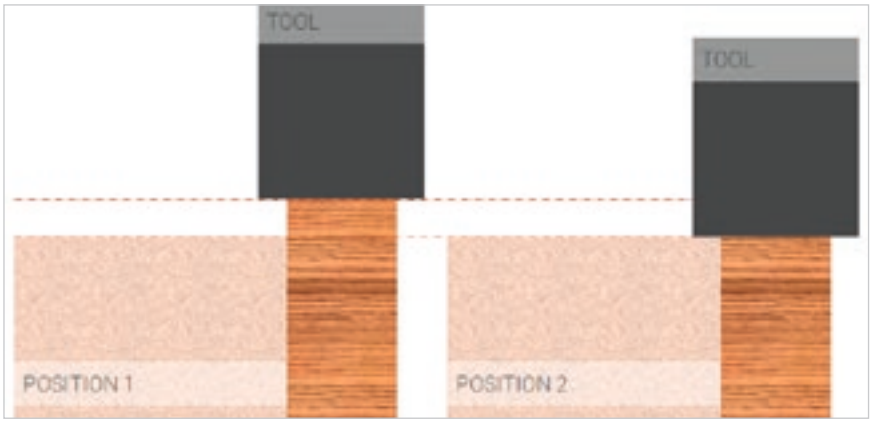
Maximum working precision

Reliabilty and cutting accuracy thanks to an **End trimmer** complete with 2 motors which slide on independent linear guides. Eliminates the excess edge at the front and rear of the panel.



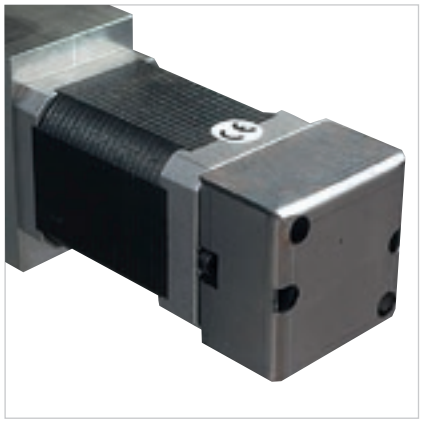
The **Flex system**, which is standard on the end trim automatically adjusts the excess edge when using the corner rounding or not.

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.

The Fine trimmer, for fine trimming of the top and bottom edges. 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.

Multi-profile tools for various types of egebanding strip.

Top quality character

The automatic axis 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%.

STEPPER MOTOR

Unprecedented product quality and reduced machining times, thanks to technological solutions created for the specific day-to-day work. The perfect combination of Biesse technology and Italian genius.

Perfect finishes throughout the entire process

The Multi-purpose **corner rounding station** with dual motors, forms a radius on both the front/rear and top/bottom edges.

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

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

The **Glue scraper** removes excess glue from the top and bottom 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.

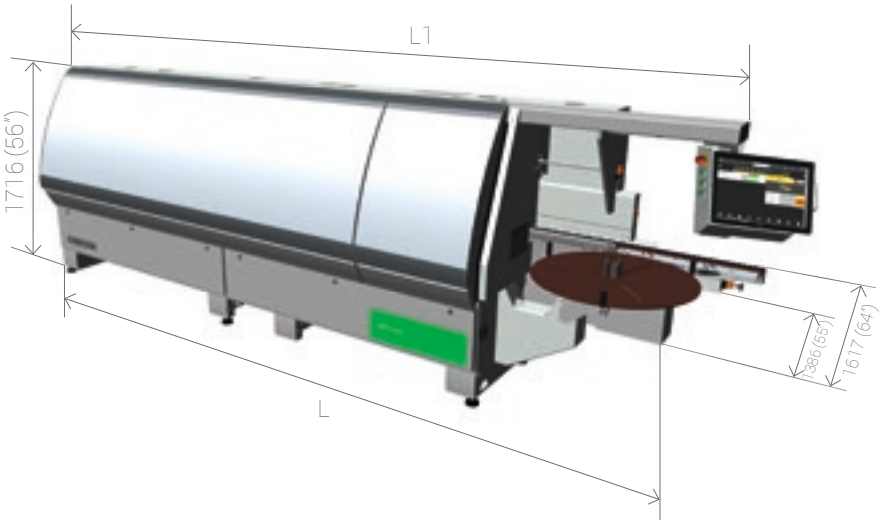
Hot air blower for reactivating the colour of the edges.

First class technology that's user-friendly

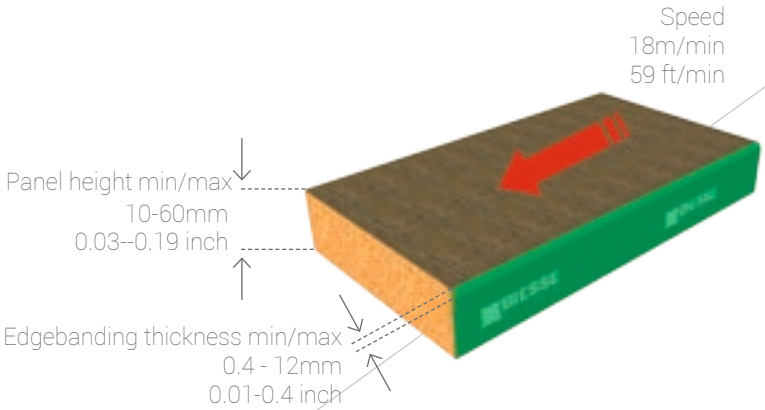
A modern, intuitive graphic interface makes the programming logic easy to understand.

10" high resolution touchscreen.

Technical specifications



	L	L1
Akron 1430	4550mm / 179 inches	4390mm / 173 inches
Akron 1435	5160mm / 203 inches	5000mm / 197 inches
Akron 1440	5610mm / 221 inches	5450mm / 215 inches
Akron 1445	6040mm / 238 inches	5880mm / 232 inches



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 sound pressure level (LpA) during machining for operator workstation on vane-pump machine Lpa=86dB(A) Lwa=106dB(A) A-weighted sound-pressure level (LpA) for operator workstation and sound power level (LwA) during machining on cam-pump machine LpA=86dB(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.

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 specialised 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 customised 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 fulfilment time optimised thanks to a global distribution network with de-localised, automated warehouses.

87% / of downtime machine orders fulfilled within 24 hours.

95% / 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

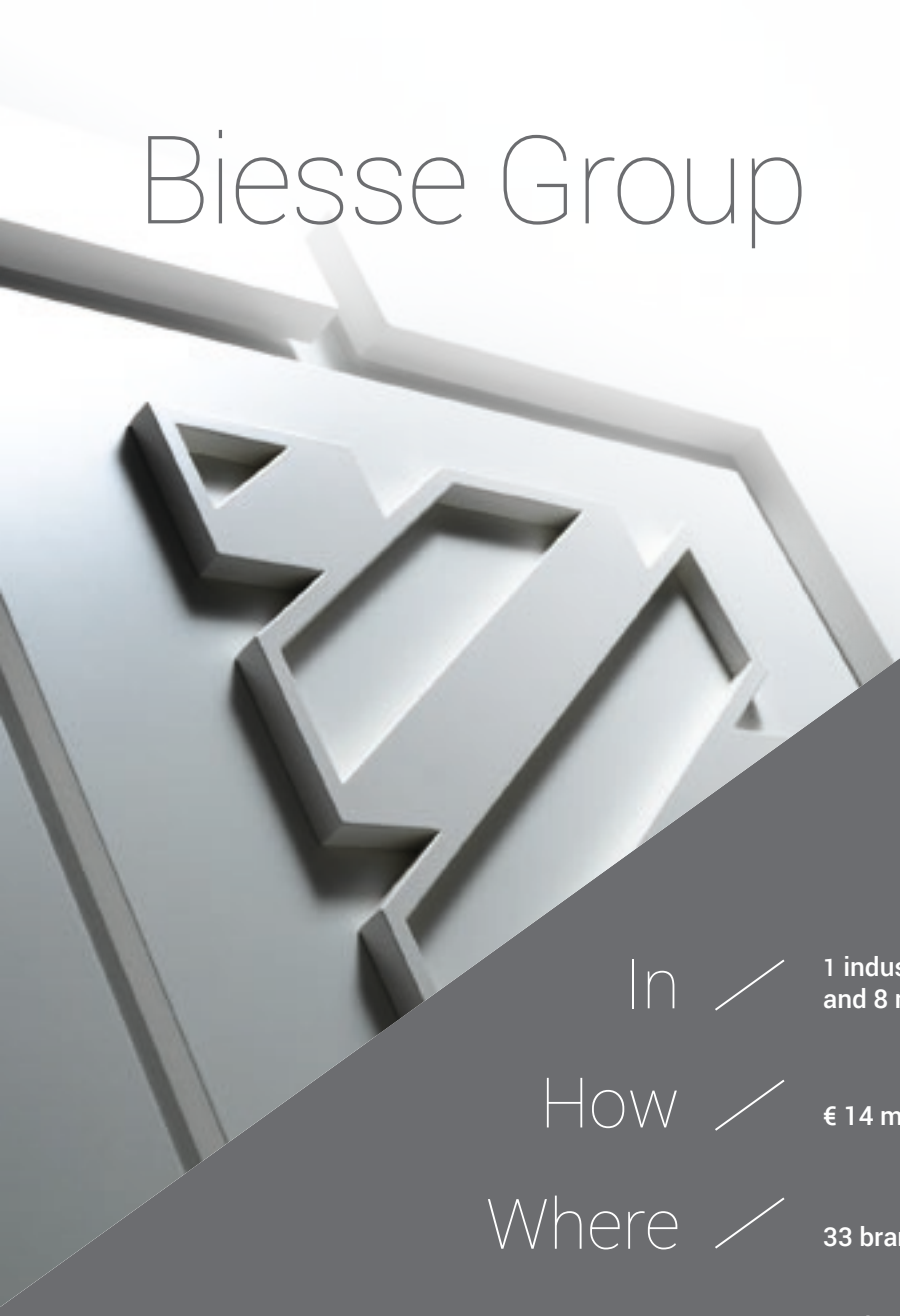
"On these chairs sits the world" is the motto of the Stechert Group that can effectively be taken literally. What began 60 years ago as a small manufacturing company for pram mouldings, furniture doors and door locks is today one of the largest international suppliers of contract and office chairs, as 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 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

http://www.stechert.de

Biesse Group



In — 1 industrial group, 4 divisions. and 8 manufacturing sites.

How — € 14 million p/a in R&D and 200 patents registered.

Where — 33 branches and 300 agents/certified dealers.

With — customers in 120 countries, manufacturers of furniture, design items and door/window frames, producers of elements for the building, nautical and aerospace industries.

We — 3000 employees worldwide.

Biesse Group is a global leader in the technology for processing wood, glass, stone, plastic and metal.

Founded in Pesaro in 1969, by Giancarlo Selci, the company has been listed on the Stock Exchange (STAR segment) since June 2001.

BIESSEGROUP

BIESSE / INTERMAC / DIAMUT / MECHATRONICS

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