

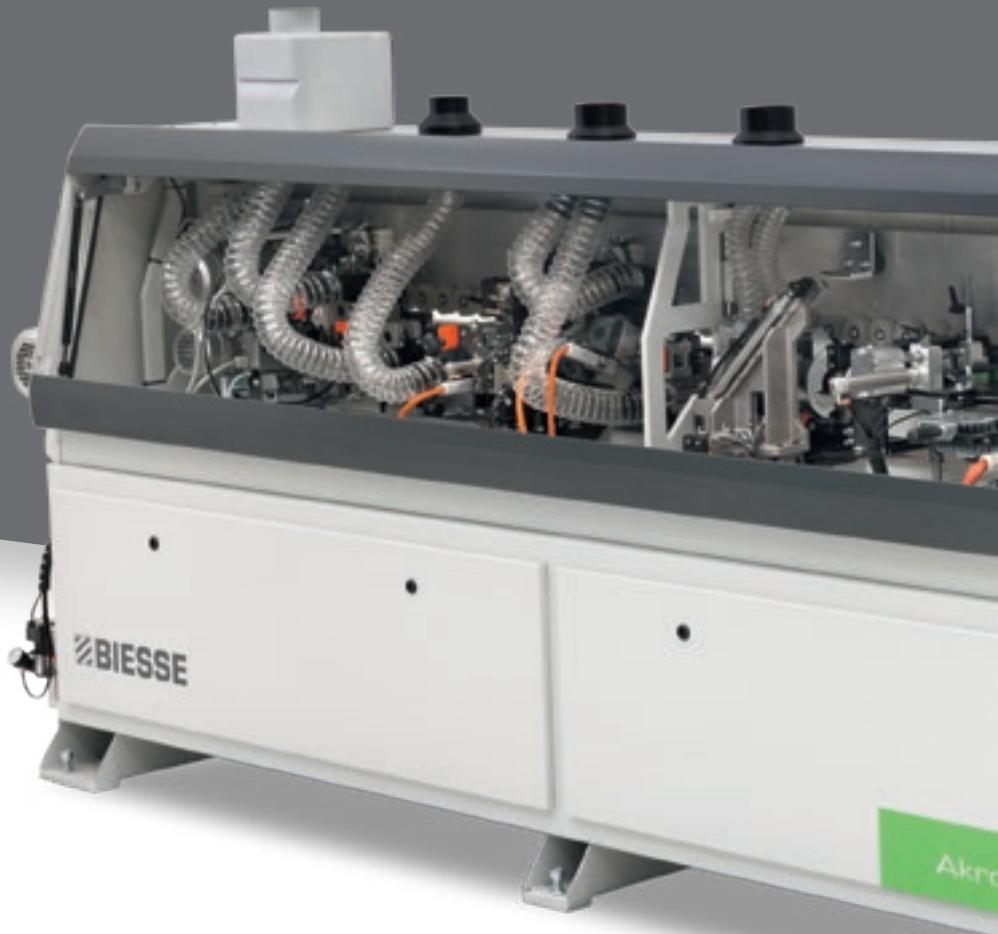
AK RON 1100

AUTOMATIC SINGLE-SIDED
EDGEBANDING MACHINES



 Biesse

SIMPLE, COMPACT, ONE OF ITS KIND



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 RESPONDS

with technological solutions that enhance and support the expertise and knowledge of producers. **Akron 1100** is the smallest automatic single-sided edgebanding machine of the range and is the only one of its kind on the market. It's designed for small-scale artisans and companies looking for user-friendliness and optimum quality - common features of all Biesse products.



WATCH THE VIDEO

AKRON 1100

- ✓ OPTIMUM QUALITY, MADE IN BIESSE
- ✓ THE LATEST TECHNOLOGY, AVAILABLE TO EVERYONE
- ✓ DESIGNED WITH UNRIVALLED ATTENTION TO DETAIL
- ✓ EXTREMELY USER-FRIENDLY

OPTIMUM QUALITY, MADE IN BIESSE

Biesse, focused as always on all-round quality, develops technologies that work to ensure the best possible results on the finished product.



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



HSD
MECHATRONICS

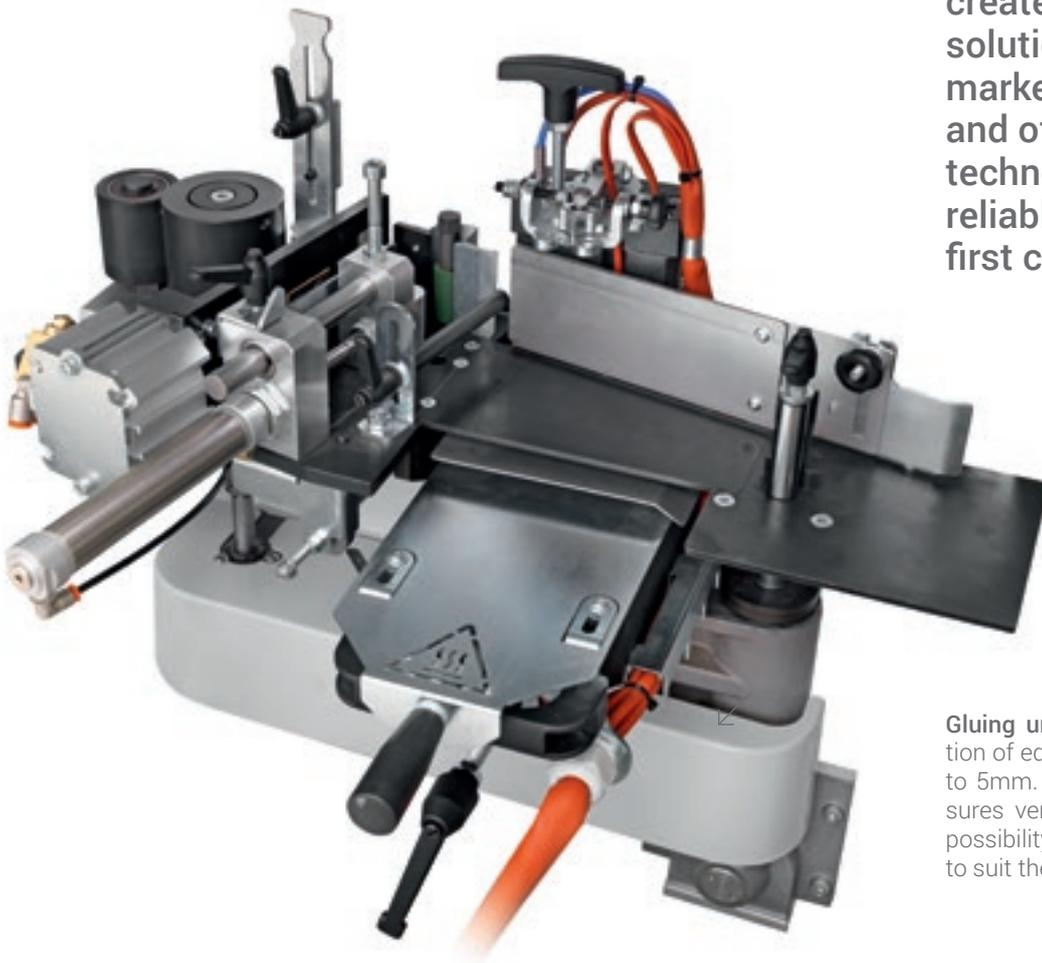


Rotax
electrospindle

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 LATEST TECHNOLOGY, AVAILABLE TO EVERYONE

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 5mm. The removable glue bowl ensures very easy maintenance and the possibility to use different glue colours to suit the panel.

Availability of:

- ▾ EVA GLUE TANK
- ▾ PUR GLUE TANK



- ▾ quick changeover of the EVA / PUR glue
- ▾ no wasted glue in the switch from EVA to PUR and vice versa
- ▾ automatic working mode changeover by simply connecting the pin of the corresponding glue bowl

EDGE BANDING STARTS HERE

QUALITY HAS NEVER BEEN THIS SIMPLE

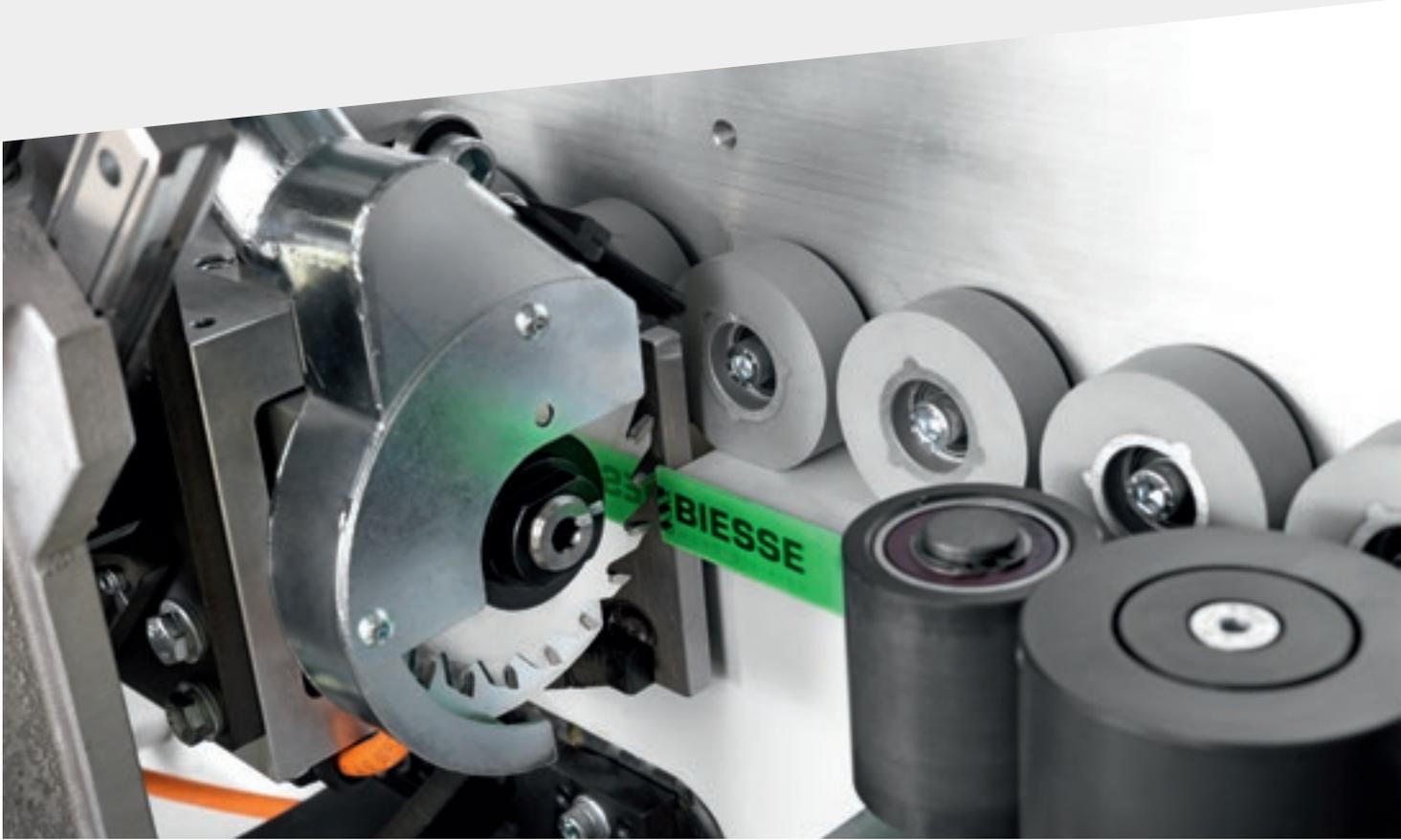
The Akron 1100 is the smallest single-sided edgebanding machine in the range, meant for small producers who need to modernise their technology or for woodworkers who wish to automate production.

The machine is equipped with high level components, HSD electrospindles, a 7 inch touch-screen control panel, removable glue bowl, rigid structure, and linear guides that exemplify engineering excellence embodied in a machine.

Akron 1100: Simple, compact, Made in Biesse.



MAXIMUM WORKING PRECISION



Reliability and cutting accuracy, due to the End Trimmer that removes excess edge at the front and rear of the panel.

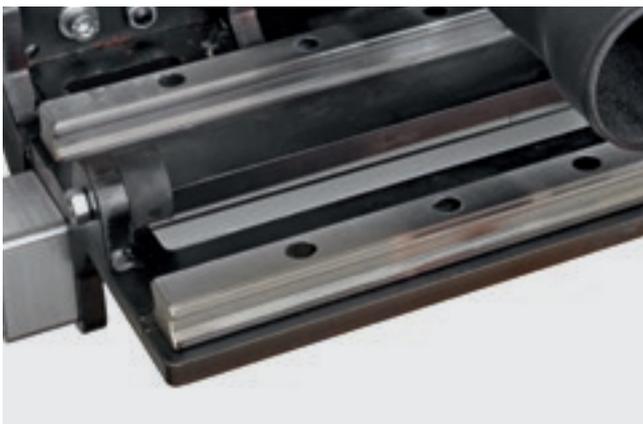
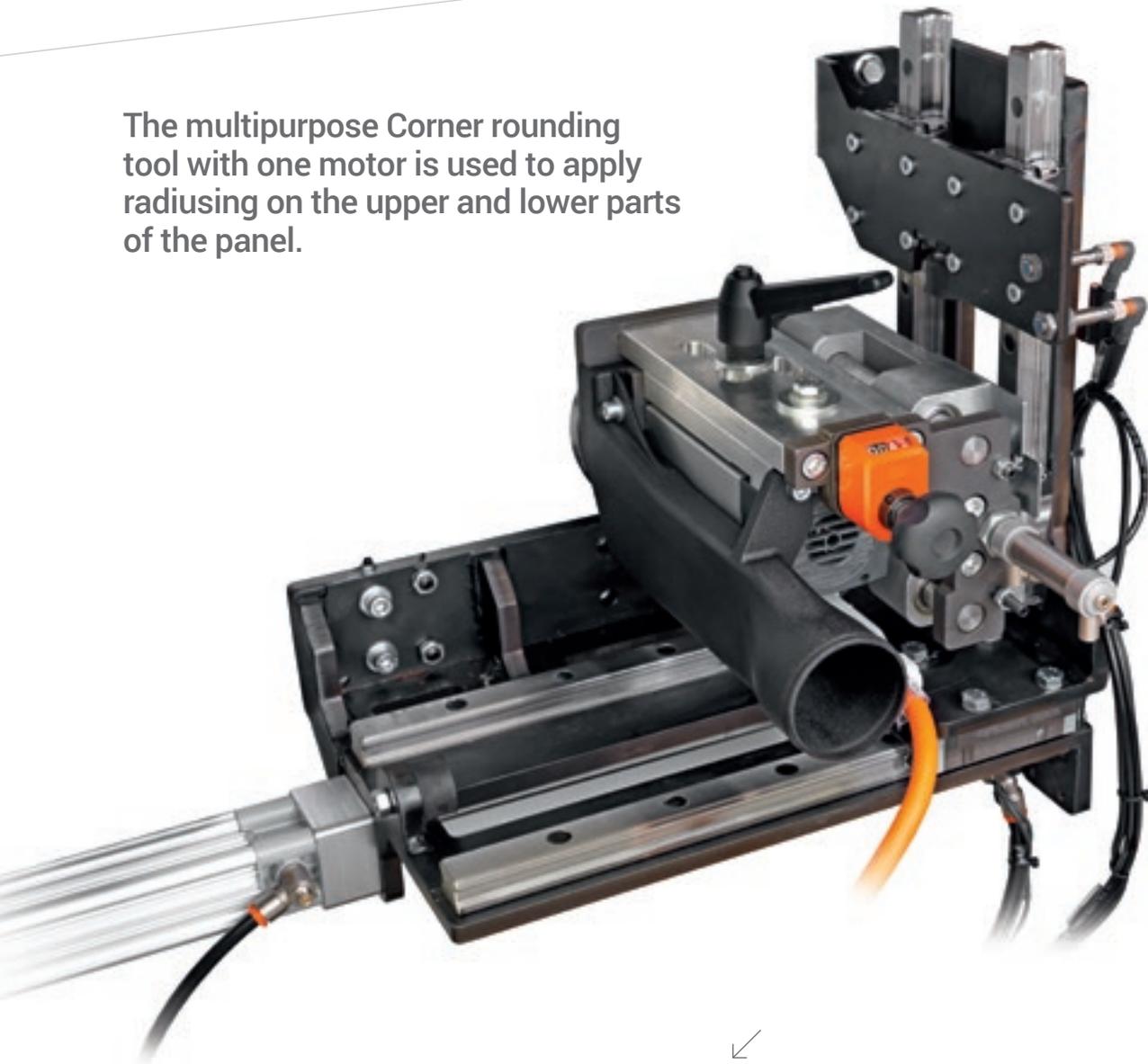
Unprecedented product quality and reduced machining times, thanks to technological solutions created for the specific day-to-day work.



Fine trimming unit for trim cutting the edgebanding strip, complete with 2 high-frequency motors.

HIGH QUALITY PRODUCTS

The multipurpose Corner rounding tool with one motor is used to apply radiusing on the upper and lower parts of the panel.



A rigid structure and linear guides with ball blocks guarantee excellent stability and machining precision over time.



The **edge-scaper unit** eliminates the surplus on the top and bottom of the edgebanding strip, from previous machining operations.

ROTEX ELECTRO SPIND LES



EXCLUSIVE TECHNOLOGY.

Biesse directly designs and manufactures all high-tech components for its machinery.

Standard and exclusive on all Biesse edgebanding machines is the Rotax range of electrospindles, which is the same technology used on top range edgebanders and CNC machining centres, guaranteeing optimum power, compact size as well as extremely high quality finishing standards. Designed and manufactured by HSD the world leader in this technology, Rotax electrospindles represent the ultimate in engineering excellence.



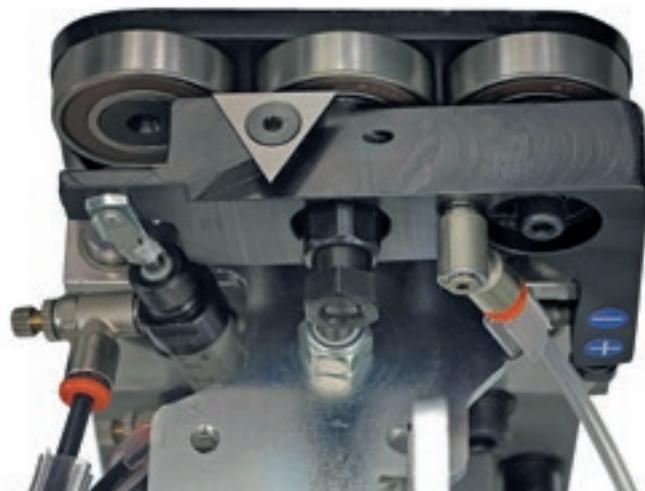
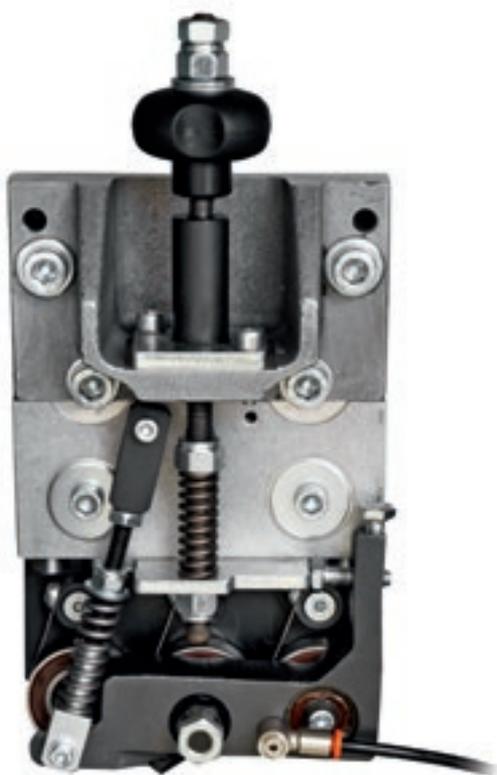
 **BIESSE**

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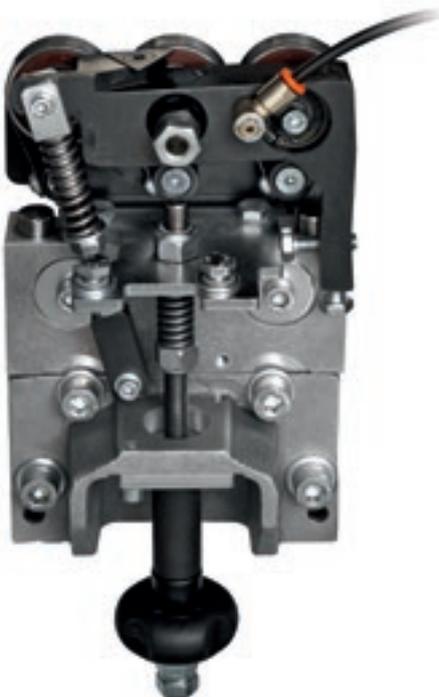
HDPE



PERFECT FINISH ON EVERY TYPE OF MACHINING OPERATION



The Glue Scraper removes excess glue from the top and the underside of the panel.



Buffing unit for cleaning and polishing the edge and panel.



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

TECHNOLOGY AT THE SERVICE OF THE USER

For the Akron 1100, Biesse has developed a PARTS SOPHIA application that generates QR CODES to identify the units and basic machines. The machines are consigned with the adhesives already attached, and customers can use the QR CODES to enter dedicated areas where they can see the specific documents. For instance, they can download User and Maintenance Manuals, see the spare parts catalogue (and order directly when necessary), and watch technical videos.

PARTS SOPHIA, daily efficiency.



Advanced statistics to monitor the productivity levels:

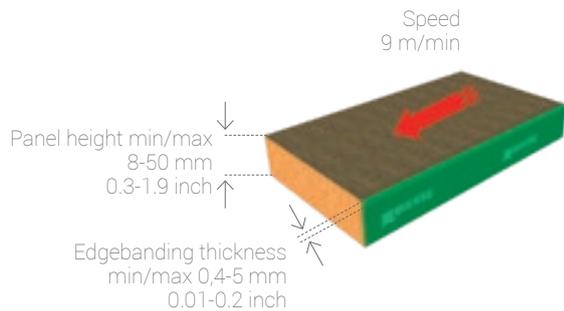
- productivity parameters always available
- sub-division of the production statistics into total and partial
- Sophia Parts for finding and ordering spare parts and keeping up to date with maintenance.



New 7-inch SMART TOUCH control - the only one of its kind on the market.

Simple, instant programming within reach of all users, thanks to the touch screen control panel.

TECHNICAL SPECIFICATIONS



		L
Akron 1120	mm/inch	3763 / 148
Akron 1130	mm/inch	4213 / 166

AVAILABLE CONFIGURATIONS

Akron 1120



Akron 1130



* EDGE-SCRAPER, BRUSH AND MILLING UNIT configuration not available.

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}) 81,28 dB (A). Weighted noise level A (L_{wA}) 98,83 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.

MADE WITH BIESSE

BIESSE TECHNOLOGY PULLS DOUBLE-DUTY AT MCM

One of the secrets to cost-justifying an investment in flexible, labor-saving technology is finding ways to keep it busy.

MCM Inc. of Toronto has mastered that trick of the trade. To maximize the return on investment for some of its plethora of CNC machinery, the company has purchased equipment that can be used both to fabricate parts for its custom office and retail environment projects and to manufacture acoustical ceiling panels it produces for another company. Many of the machines pulling double duty on MCM's shop floor sport the Biesse logo. "For our company, this is a great combination because the CNC machining for the acoustical product is fairly simple; it's just a lot of holes," said Gregory Rybak, who founded MCM, short for Millworks Custom Manufacturing, in 2001. "But having this technology greatly helps us with all of the custom work, especially for very intricate shapes and profiles. The acoustical ceiling panels are helping fill up our capacity, which is why we can afford to have all of these machines. If it were just for custom work, we would never be able to buy all of them." MCM has so many Biesse machines that Rybak said even he loses

count. He then proceeded to rattle them off resulting in the following list of 11 Biesse machines: Rover C9 5-axis CNC machining center with a combination table; Rover A 5-axis CNC machining center with a combination table; Two Rover B7 flat table CNC nesting routers; Rover G5 flat table machining center; Rover S CNC machining center with a 4x8 flat table; Rover A 1536G CNC nested-base workcell; Skipper 100 drilling machine, winner of an IWF 2006 Challengers Award; Two Selco beam saws Stream edge-bander.

Rybak prides MCM's ability to tackle custom retail and office projects most of its competitors can't. In addition to its wealth of wood-working technology, MCM has custom veneer layup capabilities, a 40,000-square-foot metal fabrication shop and a 140-foot-long flat line

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MCM's newest Biesse machine is a Rover S

CNC flat table machining center. It is mainly used in tandem with the Skipper to manufacture acoustical ceiling panels, but also gets pressed into service from time to time to fabricate parts for commercial and office projects.

The Rover S, which is also used to fabricate parts from plastic and non-ferrous metals, replaced the job performed by one of MCM's two Rover B CNC nesting routers. Both Rover B machines are now dedicated to custom products. The Rover C9, a five-axis router with a flat table, is another example of a machine doing production and custom work. "The C9 is a combination machine that we use for the acoustical product but get used more for three-dimensional parts. We recently used the C9 to cut a railing that went through three floors of an office". The railing was actually glued-up solid oak about 2-3/8 inch. The top of the railing for each landing had a fairly intricate spiral design. "The five-axis machines have the most downtime; we may only use them 20 percent of the time," Rybak said. "But without the five-axis capacity we wouldn't be able to do a lot of the parts, like the railings. While you pay a premium for it, for us it's worth it."

IT'S BEEN A GOOD MARRIAGE. BIESSE IS A WORLD-CLASS SUPPLIER AND HAS BEEN A GOOD COMPANY FOR US OVER THE YEARS IN TERMS OF SERVICE AND SUPPORT.

Gregory Rybak
MCM Founder

MCM2001.CA

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.

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