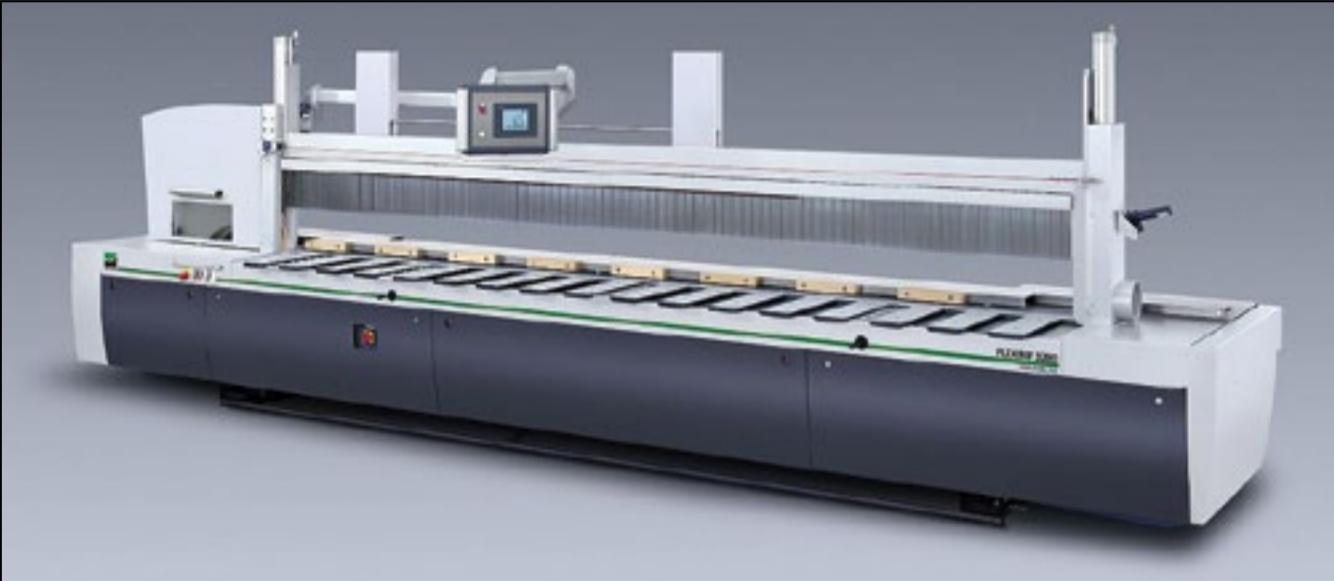


# INDUSTRIAL WOODWORKING & PANEL PROCESSING

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**APRIL 2019**

## FUTURE PROOFING



SWISS sawmiller, Daniel Schläpfer has invested in the purchase of the latest generation Weinig FlexiRip JironLine longitudinal circular saw to modernise his production operation and to ensure that business remains strong in the future.

When it comes to cutting planks, boards and panels, the FlexiRip has established a

reputation as an efficient and flexible longitudinal circular saw.

It is also capable of cutting a range of other materials, including a variety of panel types.

Weinig's FlexiRip is acclaimed for its ease of operation and feed speed. It can be continuously and finely adjusted from 0 – 80m/min.

The result is an efficient one-man solution for cross sections and longitudinal cutting.

'With the FlexiRip, we have laid the foundations for growth and future proofing,' says Daniel Schläpfer.

For the full story please turn to Pages 12 & 13 (part of our comprehensive look at all the latest in panels and panel processing equipment).

*Above: The Weinig FlexiRip has established an enviable reputation as an efficient and flexible longitudinal circular saw.*

## WEINIG'S NEW CHIEF TECHNOLOGY OFFICER APPOINTED

THE Supervisory Board of Michael Weinig AG has appointed Dr Mario Kordt as chief technology officer.

'We are happy to have found a colleague and board member in Dr Kordt, who combines technical proficiency with personal qualities. Dr Kordt has proven himself excellently within the Weinig Group in recent years,' says Thomas Bach (pictured here).

For the full story please turn to Page 7.



## SPECIALIST CNC MACHINERY

THE five-axis CNC specialist, Maka Systems, now part of the listed high-technology company, CSG Group will feature the latest MK7s at LIGNA.

The monoblock and modular design of these CNC machines provides users with the highest level of machining quality, coupled with high flexibility and the fastest cycle times.

The combination of excellent mechanics and the finest mechatronics guarantee economic efficiency, low maintenance and ease-of-use.

MAKA's MK 7 machining centres can be found processing plastics, composites and aluminium, but these machines are equally effective routing and shaping furniture components.

Whatever type of material you need to machine, the compact MK7 should always be regarded as the right choice.

The construction provides the ideal conditions for high precision of small to medium-sized workpieces, in small batches, or even bespoke parts.

The MK7 is equally popular as an entry level machine, as well as an additional machine for special machining applications. Operators appreciate the sturdy characteristics, as well as its dependability.

Thanks to its compact design, the

MK7 requires a minimum amount of space in the workshop. It is also easily accessible, making setting and loading very easy and efficient too.

The heavy-duty and rigid design of the MK7 ensures high dynamic load-bearing capacity. Outstanding machining precision is guaranteed even with high feed rates.

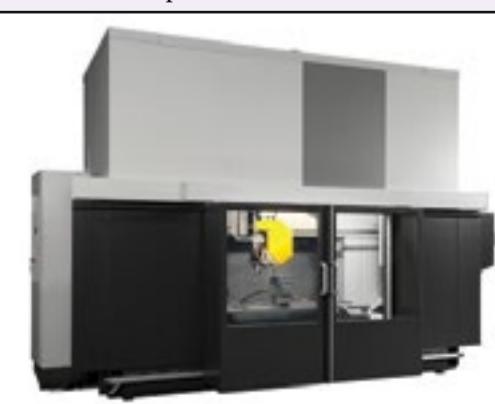
When combined with a high-performance unit, such as the POWER-MAKA spindle, it ensures first-class results, with the highest material removal rates and the finest surface finish.

All Maka machines feature class-leading five-axis controllers, including Siemens SINUMERIK 840D SL, comprehensively specified for five-axis machining. Tool management is also standard.

As far as safety measure are concerned, the MK7 scores particularly well. Protection from dust, offcuts and shavings and all managed for the comfort and safety of their users.

Maka has a vast amount of experience in the field of CNC machining and the company is keen to demonstrate this expertise, including Industry 4.0 solutions at LIGNA 2019.

For further information about MAKA and its capabilities please turn to Page 9 of this issue.



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# WEINIG PROVES TO BE A STRONG PARTNER FOR GERMAN WINDOW MANUFACTURER

A SMOOTH series production needs a strong partner, such as Weinig. In this respect one of the German machinery manufacturing giant's customers, Fensterwerk Schröder GmbH has taken its lessons from a crash, which occurred in the company's workshops in Hesel in northern Germany.

A self-inflicted breakdown of the automatic planer paralyzed wooden window production.

'At that time Weinig Service helped during the night. That's not something you forget,' says timber production manager, Manfred Fecht, recalling the occasion.

So when it came to acquiring a modern profiling centre, unsurprisingly Weinig was at the top of the list.

'Meeting deadlines is of primary importance for us. In addition, we needed a fast line, which could be used to produce approximately 40 systems we have with consistently high quality and with minimal manpower,' says Hendrik Schröder, explaining the company's requirements.

The Conturex 124 in its second generation format was the perfect set-up for the wooden window manufacturing company.

It is equipped on the portal both sides and offers space for four processing units. Unit configurations, such as main spindle, five-shaft head, uni-spindle, the Weinig multi-spindle drill head, or saw units are

claimed to meet every requirement in the mid-performance sector.

At the same time as purchasing the Conturex 124, Fensterwerk Schröder also invested in a Weinig optimising cross-cut saw, which is linked to the Conturex.

The positive experience has proved the window specialists right:

'I am impressed with the reliability of the line,' says the company's managing director.

This is key, because Schröder GmbH makes full use of the Conturex capacity.

**For further information tel Weinig on 01235 557600. Visit [www.weinig.com](http://www.weinig.com)**



*The 125 is one of a series of Conturex models which opens up a whole new Weinig world and is especially aimed at the windows and doors sector. Processing of all known corner joints, longitudinal contour processing, drilling, shaping and insert shaping – it's a clear case for the Conturex!*

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# LAMONT HELPING TO SOLVE A GREAT MANY PROBLEMS

GIBSON'S Cabinet Makers offers quality hand-made kitchens, bathrooms, dining rooms, bedrooms and free-standing furniture.

Based on the southern fringe of Whitby, the company serves a wide area, including Durham, Cheshire and Lincolnshire, as well as Teesside and the whole of Yorkshire.

With four or more major commissions on the go at any one time, Gibson's Cabinet Makers has seen its workforce double in recent years.

Part of this success is due to the Woodwelder and clamp system purchased from Lamont.

'We were becoming busier and busier, as the popularity of our furniture increased,' says partner, Roy Gibson.

'In order to cope with the demand, we were having to look at alternative ways of gluing up doors and drawers.'

'Traditionally we were doing it with sash clamps, which is quite time consuming and you also have to always be checking that the work piece is square. Then there is the gluing up process, which could take several hours.'

'Once you had used all your clamps, you would have to wait for one batch to dry before going on to the next. So we could only do 20 drawers, or doors in one batch.'

'With the Lamont system, it has a square corner and glue resistant plastic sheath to it, so glue does not stick to it.'

'You put your drawer, or door in and clamp it down: it pushes it into the square corner - so everything is absolutely square.'

'You also get the (Woodwelder) glue gun, which heats up the RF glue in about 15 seconds, so you can do a corner with one zap, which speeds things up tremendously. Indeed, with the glue and the gun working together, you can finish a door in a minute.'

'The Lamont system has become part of a production line, which allows us to have door components coming out of the machines, go straight to the Lamont system, after which the doors are sanded, before going on to be hinged and fitted.'

'It is incredible to think back how we were working with sash clamps before we acquired the Lamont system. It is massively

beneficial to us. We had seen one of Alan Lamont's displays at a JMJ woodworking exhibition, which we visited when we were looking into ways of increasing production. He was on the stand.'

'We spoke with him and saw demonstrations and said we were very interested, went away to think about it, decided the amount of time it was going to save us would be very cost effective and purchased one.'

'Before the show we were aware there were things of this nature, but really needed to see one and have it explained to us to understand the benefits, so the exhibition helped us in this respect.'

'We primarily use the Lamont system for doors and drawers. It can also be used for frames. These are all our main components that we use to manufacture hand-made kitchens and made-to-order furniture.'

'As well as savings in time and in ensuring that the work is square, it allows us to use staff effectively. Instead of having two people using the sash clamps, we now can have one guy putting units together, while his colleague is gluing up. This means that we can meet deadlines more quickly and increase turnover.'

'It also saves space. With sash clamps, you end up with a great area of your floor covered in clamps and doors, all piled up on top of one another.'

'The Lamont system is vertical, so it does not take up a great deal of space and, as the doors come off dry, they can be stacked vertically.'

'One of the other nice bits about it is that you get different shapes and different sized face plates for the gun, which allows you to zap a drawer from inside, for example a 45 deg corner, as well as flat plates for a flat surface. You can utilise the machine in all sorts of gluing up procedures to solve a great many problems.'

'I would absolutely recommend it to other people. I can't believe we coped so long without one, concludes Roy, adding that he would recommend the system to anyone.'



For further information tel Alan Lamont on 01461 40017. Visit [www.clampingmachines.co.uk](http://www.clampingmachines.co.uk)

## WEINIG DELIVERS COMBINING HIGH OUTPUT WITH EXCELLENT QUALITY

MAXIMUM production depth is indispensable for Swiss window manufacturer, Adi von Euw in order to maintain high-quality manufacturing.

However, this only requires a small team, since the degree of automation in the operation is enormous.

Managing director, Adi von Euw has consistently driven forward the development of operations towards maximum productivity.

'As the variety of profiles in the market has expanded, we have had to adapt our technology accordingly,' he says, adding that: 'The Conturex concept immediately fascinated me'.

The highly productive system with complete processing of even complex profiles in a single clamping enables switching from one order to another with no changeover.

The system is based upon a modular concept that enables customised solutions for every requirement.

Von Euw's tripartite Conturex system comprises six portals. Processing is performed on two tracks in parallel, which are equipped with 16 tables. Four of these supply the processing units alternately with window parts.

Profile splitting with one and the same tool configuration ensures a high throughfeed, which can also seamlessly accommodate immersion functions.

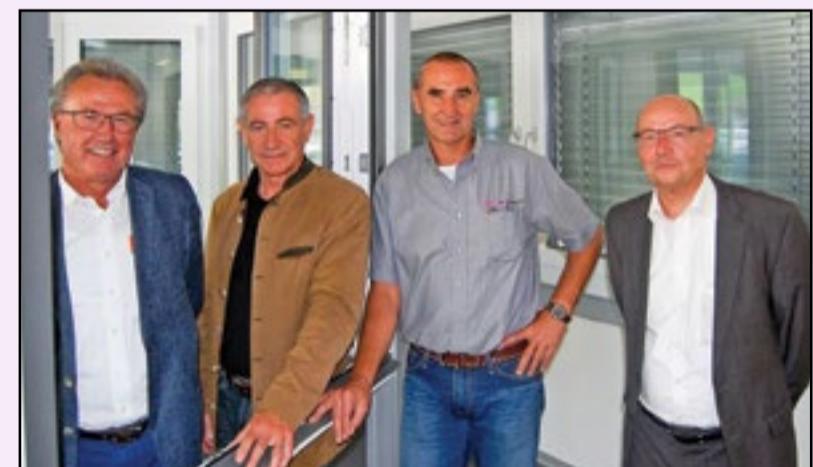
The system produces Von Euw's entire product spectrum. This includes round arch production, angled assembly of window and lift-slide door elements, as well as angled window constructions with angles of  $\pm 75$  degrees. The required two parts/min can be processed effortlessly.

'In principle, the concept even enables the performance of more than three parts/min says Weinig's window expert, Dieter van Dyck.'

The fully-automated system delivers this high output with one-man operation and in excellent quality.

'We can fulfil almost any customer request with little effort,' says Adi von Euw.

A meeting of quality fanatics: left to right, representing Holz-Her, Fredy Dörmann, Weinig's former head of marketing and communication, Klaus Müller, managing director of Von Euw Fenster AG, Adi von Euw and Weinig sales and project director, Dieter van Dyck.



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# LEARNING ALL THERE IS TECHNOLOGY WITH THE

IN BOTH of the last issues, we explored details of vacuum technology in general and referred to the various possibilities for vacuum generation in particular.

However, what does this look like in everyday practice? What should you keep in mind and how can vacuum supply be optimised?

The realisation that "the vacuum is too weak to hold my work piece" does not always necessarily correlate to the performance of the installed vacuum pump.

This is why we would like to give readers a tips and tricks for installation, operation and maintenance of the vacuum supply.

## Installation of the vacuum pump

For all vacuum clamping procedures, the vacuum pump should be installed as close as possible next to, or in the machining equipment to realise the shortest possible lines between the clamping equipment and the vacuum pump.

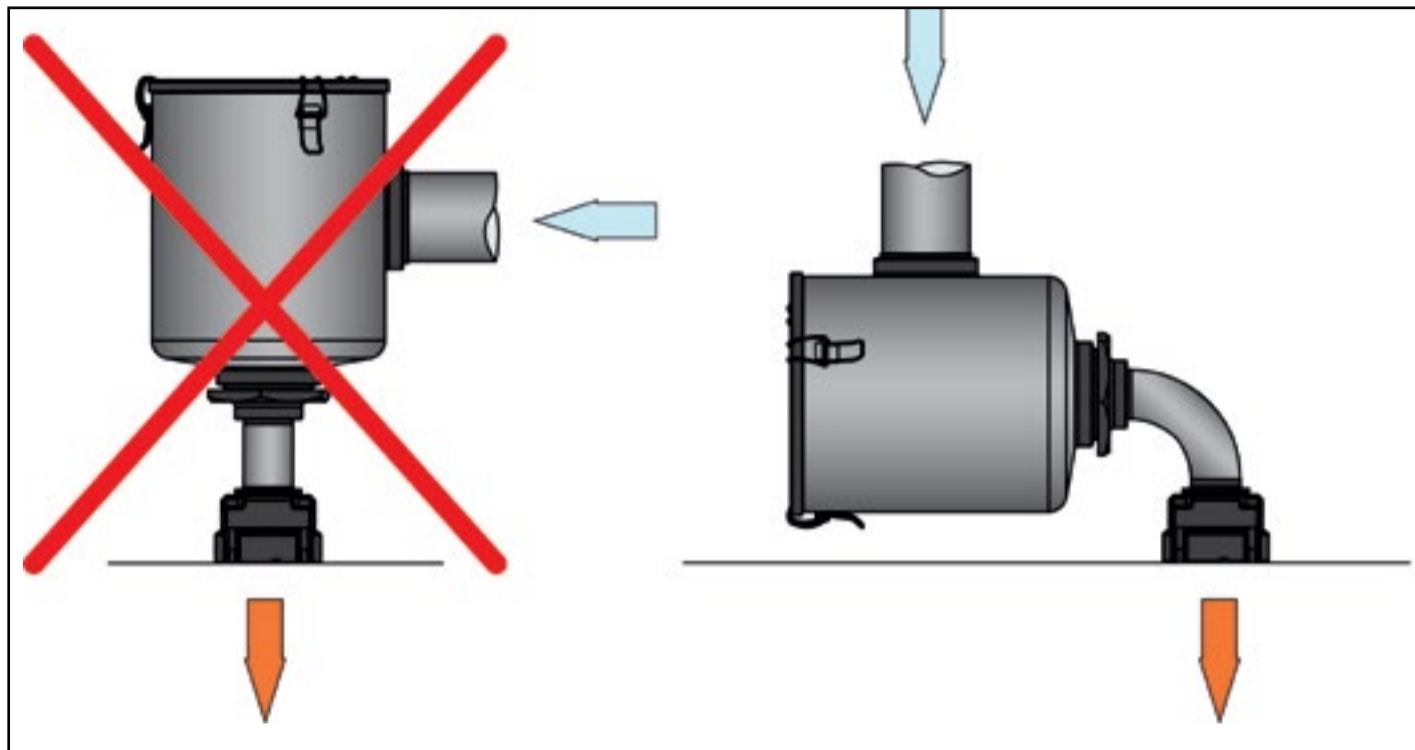
This is because, in addition to extracting the air between the work piece and the surface, it is resting on (grid table, MDF board, or vacuum block), the vacuum pump also has to extract the entire volume in the pipelines, or tubes.

The risk of leakage increases as the length of the lines and the number of valves, tube connections, junctions, bends, and so forth increases.

This means that air penetrating through leaks must also be extracted by the vacuum pump.

TIP: If you need to install tubing between the clamping device and the vacuum pump yourself, hemp is recommended to be avoided as a sealant.

Vacuum extracts the moisture contained in the hemp, which means that it quickly dries out and loses its sealing effect. This is why Teflon tape should be used as a sealing material between



fittings and tubes.

## Tightness of the seal for the vacuum supply

The tighter the seal of the vacuum supply, the more effectively a vacuum pump can work. This applies not only to pipelines or tubes, but also to the clamping device itself.

## Direct clamping on the grid table

During this process, attention should be paid to carefully and completely sealing the surface underneath the work piece with a sealant, such that the work piece completely covers the sealed surface and lies directly on top of the sealed area.

It is also important to ensure that one, or more access points to the vacuum supply are open only on the inner section of the sealed

part of the grid table. Make sure that all suction bores in the table that may be outside of the sealed area are sealed off.

## Clamping with templates on the grid table

If the template needs to be clamped using vacuum, it needs to be sealed as described above. However, mechanical clamping is also possible. The supporting surface of the work piece within the template itself must in turn be properly and completely sealed with sealing cord.

## Nesting method

As described above, when the nesting method is used, there is always loss of performance, due to leakage if a larger section of the MDF board is not covered by a work piece.

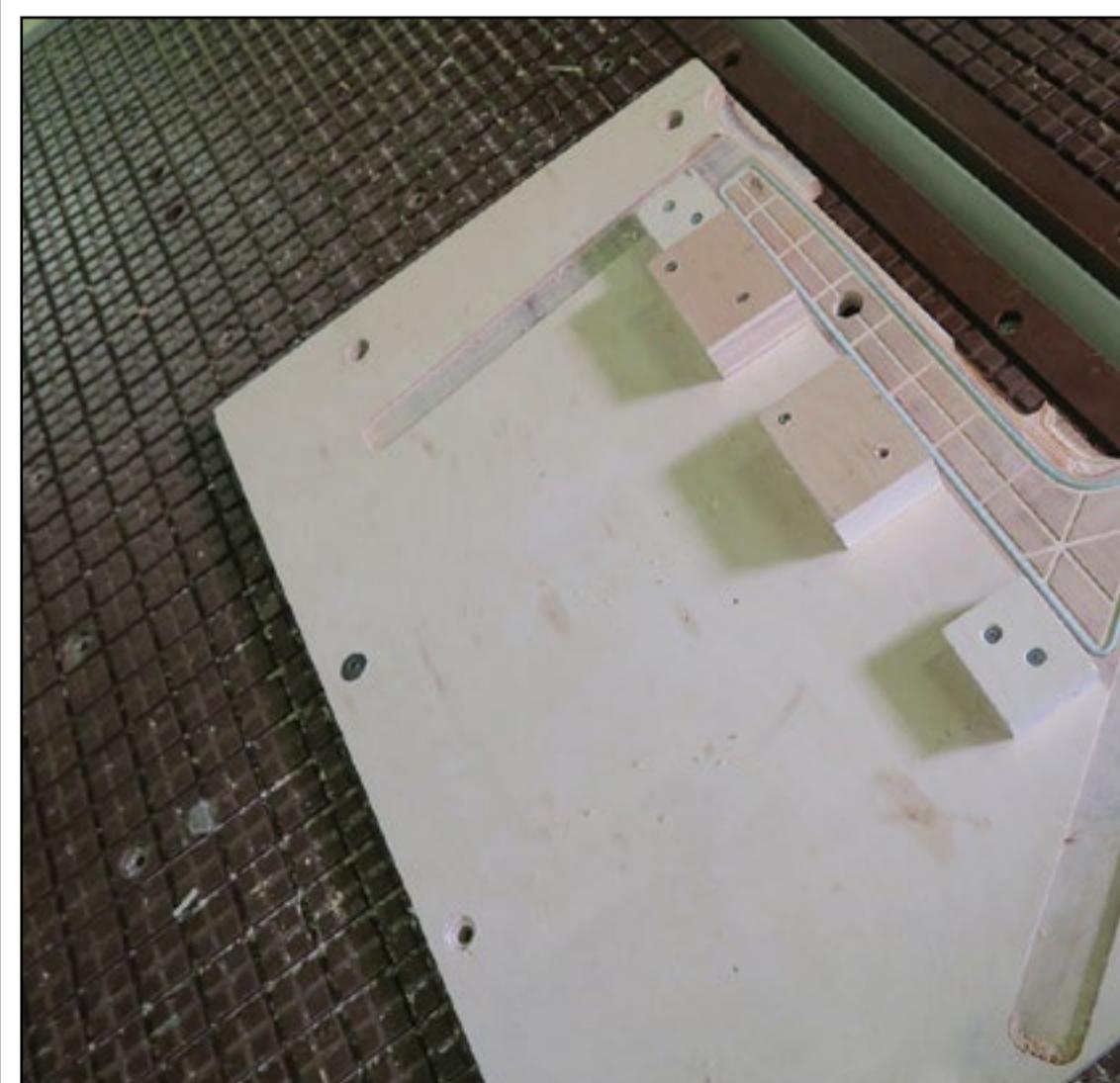
TIP: Placing an airtight board, mat or film on this surface can provide effective help in this situation.

When using the nesting method, the MDF board used as the protection board should also be checked to see how air-permeable it is. Air-permeability can change depending on the board manufacturer, use of resin and composition of sawdust.



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# TO KNOW ABOUT VACUUM HELP OF BUSCH (UK)

It may be necessary to try different boards to find the ideal material. MDF boards are pressed using heat during manufacturing. This makes the surface less porous and air-permeable than the inside of the board.

TIP: Use a second MDF board and mill the contours of the work piece. Then the board is more air-permeable where the work piece is and the clamping force should be more effective as more air is extracted there than on the remaining surface of the board.

#### Consoles with vacuum blocks

When working with consoles and vacuum blocks, attention should always be paid to ensuring that all vacuum blocks securely lay on the entire surface of the work piece so that no leakage air can be extracted.

Vacuum blocks that are not being used should be disconnected from the vacuum supply, or removed entirely.

#### Maintaining the vacuum pump

All vacuum pumps should generally have an upstream filter (inlet filter) that prevents dust, or other particles, or liquids from making their way into the vacuum pump.

Depending on the amount of dust, this filter must be regularly cleaned. Using compressed air to blow particles out of the filter element is usually sufficient.

TIP: Ensure that the filter is attached in a horizontal position. This ensures that dust cannot enter the vacuum pump when the filter is opened or the filter element is removed.

#### Control

The vacuum pump control system is normally integrated into the machine controls. In this case, vacuum is applied via a valve during clamping.

After the machining operation is finished, the clamping device is then ventilated again to remove the work piece. The vacuum pump operates constantly throughout this process.



For longer downtimes, or clamping times, consideration should be made as to whether it is possible to have a buffer volume through additional installation of a vacuum vessel, enabling the vacuum pump to automatically shut off when the ultimate pressure has been reached and then subsequently turned back on when a pre-set pressure is reached.

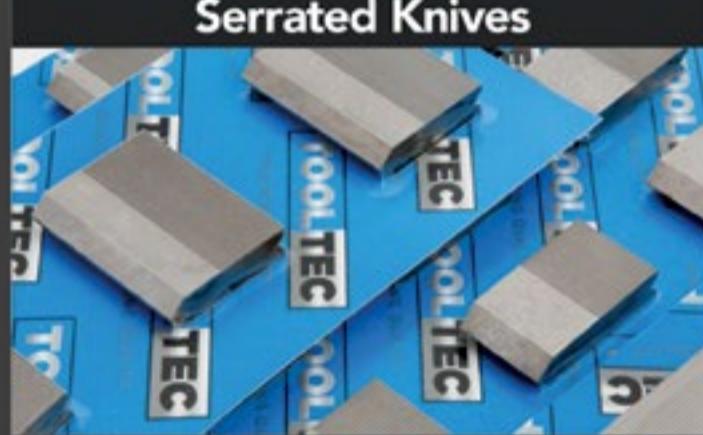
From an energy-saving perspective, using a frequency-controlled

vacuum pump is the best choice. With the variable speed, it can be automatically set to meet requirements and thus only consume the energy that is actually necessary for clamping. Advice from a vacuum specialist is necessary to optimise the control system.

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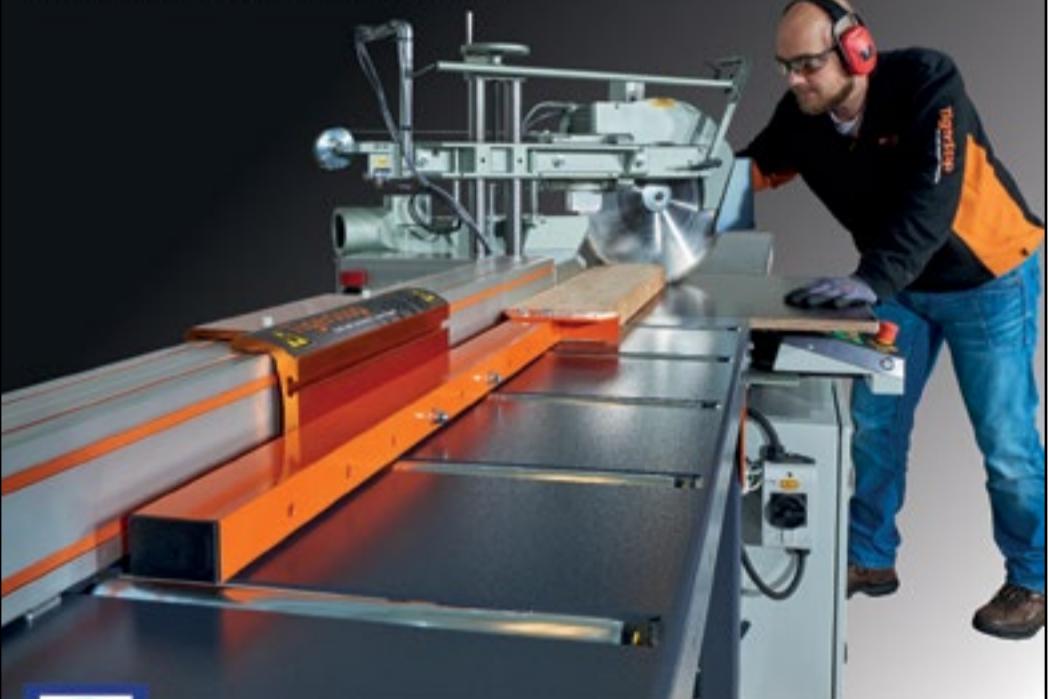
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# DR MARIO KORDT STRENGTHENS WEINIG MANAGEMENT BOARD

MICHAEL Weinig AG has recently complemented its Management Board. Following the appointment of Gregor Baumbusch as chief executive officer as of 1 January 2019, the Supervisory Board has appointed 46-year-old Dr Mario Kordt as chief technology officer.

Dr Kordt took up office in March 2019 and, together with chief financial officer, Gerald Schmidt, will complement the Management Board, which will then consist of three members again.

Dr Kordt completed his mechanical engineering studies with a degree in manufacturing engineering and he has outstanding technical expertise and experience in mechanical engineering.

In the Weinig Group Dr Kordt has been responsible for Weinig Dimter, LuxScan and Raimann as managing director since 2015.

In his new function as a member of the Management Board, he will continue to assume his previous responsibility as managing director of these companies for the time being.

'We are happy to have found a colleague and board member in Dr Kordt, who combines technical proficiency with personal qualities. Dr Kordt has proven himself excellently within the Weinig Group in recent years,' says Thomas Bach.

'He enjoys great recognition amongst his colleagues, due to his professional expertise and team spirit. He therefore combines the ideal qualities not simply to maintain the leading position of the Weinig Group in the world, despite the ever-increasing pressure of international competitors, but to expand it,' continues Thomas Bach.

## SPRAY BOOTH EXPANSION

A SHREWSBURY business specialising in bespoke traditional and contemporary joinery has extended its purpose-built spray booth for its fully finished decoration service.

Morris Joinery has seen increased demand from customers and other joinery professionals for the service at its Bicton Business Park workshop.

The booth was installed so doors, windows, furniture and other items it makes by hand could be supplied ready painted or lacquered with a quality factory finish. It has been such a success since its installation in that it has been enlarged to incorporate a sanding room, with a downdraft bench to take dust away.

"We've invested in a state-of-the-art spray booth, because our skilled craftsmen produce high quality work and we wanted to offer an accompanying high quality paint finish for all our joinery products. The spray booth has proved to be so popular that it made sense to expand it, says joinery manager, Matt Tyrell.

For further information visit [www.morris-joinery.co.uk](http://www.morris-joinery.co.uk)

At the same meeting, the Supervisory Board was also presented with the main elements of the new "viaWEINIG" strategy, which was confirmed by the supervisory board.

The implementation of this strategy means a clear orientation towards customers and markets. This is made possible by centralising the sales organisation of the Weinig Group with regional market units.

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| 1X WEINIG POWERMAT 600  | 6 SPINDLES |
| 1X WEINIG POWERMAT 1200 | 7 SPINDLES |
| 1X WEINIG POWERMAT 1000 | 9 SPINDLES |
| 1X WEINIG RONDAMAT 960  | POWERLOCK  |

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# THE MASTERWOOD CNC FAMILY PROVIDING SOLUTIONS FOR ALL

## History

MASTERWOOD Spa is one of the leading suppliers dedicated to CNC solutions, supplying machines to over 100 countries around the world. It is still run by the three Italian families of Muti, Zangheri and Boschetti that started the original companies over 50 years ago.

Masterwood offers a full range of CNC machines that include the Muti oscillating chisel mortiser, drilling machines and routers, which are all built in Italy using proven designs and components from leading suppliers, such as HSD, Beckhoff, Yaskawa, THK, Schmalz, and Becker.

All machines are built to a heavy duty design with the gantries driven on both sides of the machine bed for added accuracy and long lasting reliability.

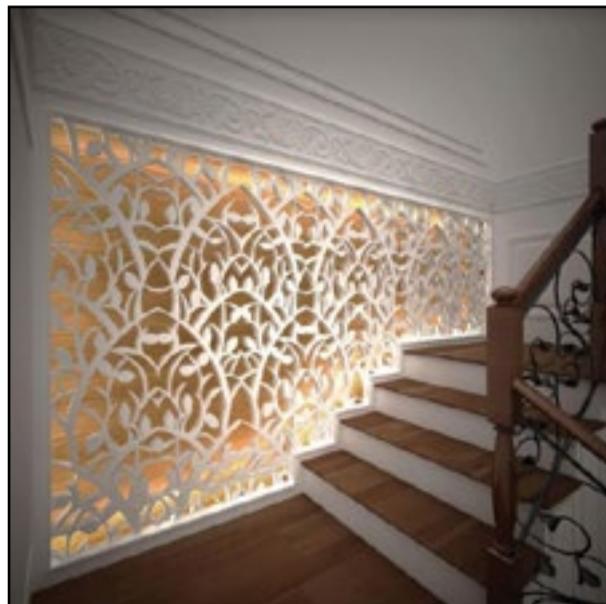
## Pod & Rail CNCs

Starting with an entry level Project 250, moving through the larger 300 and 400 Project series to the top end Project 500 range, these CNC machines can be supplied in all formats for solid timbers, panels, composites, and other materials. Available options include long or short beds, cantilever or gantry designs, manual, or automatic beds in three-four- and five-axis formats.

## Flat Bed CNCs

In order to compliment the pod and rail range Masterwood has increased the range of Matrix beds for nesting and special works. These range from the entry 2500mm x 1250mm bed through a large range of sheet sizes up to beds of 7500mm in length.

The flat bed range benefits from the option to have infeed and outfeed systems to automate the production, allowing full sheets to be loaded, fully machined, finished panels pushed out and the



mixture of automatic loading and unloading equipment.

## Production Lines

In recent years Masterwood has been asked to provide more and more automated production lines to leading manufacturers around the world. This has covered such products as windows, doors, frames, coffins and sun glasses.

The special systems have included such items as inserting weather seals into components, selecting and fixing locks into housings, special beds for machining gun parts and special drill heads for multi drilling acoustic panels.

## Dedicated Software

Developments and improvements to the CNC machines is one thing, but the biggest changes have been with software. As Masterwood's computers have become more powerful, so has the software. This is allowing customers to produce programmes that consist of thousands of lines of code in minutes, producing carvings and intricate work even on the very basic three-axis machines, often dismissing the need to go to more expensive five-axis options.

Masterwood has always produced software using in-house companies, but to take this to higher levels the company now works under contract with some of the leading software houses. This ensures

bed cleaned before the next sheet is loaded. In addition, a manual, or fully automatic arm can be added for printing and attaching labels on to the sheets prior to, or after machining.

## Special CNCs

In addition to the main CNC range, Masterwood produces dedicated production machines. The 4WIN, a dedicated window machine, Project Door, for full size door production, DoorLine, for locks and hinges and Teknomat and MultiMill for window and frame components. These machines have the options of being manually fed or, in most cases, supplied with a

that machines and software are fully compatible at all times.

All the machines are supplied with the tried and tested MasterWorks Cad/Cam, an easy-to-use, but powerful package for most CNC work.

There are dedicated packages to cover staircases, windows, door sets (timber frame and solid core), traditional box windows, cabinets, furniture, louvres and the latest 3D software for three-four- and five- axis work.

Any of the packages can be added to a customer's machine at any time, giving them the ability to change direction, or production methods, if required. All the Masterwood software packages come with full on-site installation and training to meet the customer's manufacturing needs.

## Support

Selling and supplying machines is one thing, supporting and helping customers is the next stage and in Masterwood's eyes is the most important. For the first time CNC is likely to be the biggest investment their company makes, so it is important that customers see the results on their production as soon as possible and feel comfortable with the direction they have taken.

Masterwood GB has technicians spread out across the UK and Ireland to cover installation and training, support and back up, servicing, repairs and breakdowns, plus upgrading old machines to be more compatible with the new machines when installed. Masterwood also has the expertise of its Italian company staff to help with the more specialised jobs, when required.

Masterwood has over 300 companies in the UK and Ireland using its machines. Many of these are family run, and, within time, it is found that they totally rely on their CNC machine, so if there are problems it is important that they are back up and running in the shortest time possible.

Masterwood's growing team has vast knowledge and experience of the company's machines, not just today's models, but those produced over the past 30 years, many still operating every day, including CNC machines and the Muti oscillating chisel mortisers.

Masterwood GB's customers are important. It is in Masterwood's interest to provide the best service for its growing family of customers and Masterwood never loses sight of the fact that there is always room for improvements.



For further information telephone Masterwood GB on 01293 402700. Visit [www.masterwood.com](http://www.masterwood.com)

# MAKA DEVELOPING FURTHER IN TERMS OF FACTORY AUTOMATION

MAKA is an established system integrator for Industry 4.0 solutions and will use LIGNA to demonstrate that the company is developing further in terms of factory automation.

Now part of the 4000 strong high-technology company, CSG Group, with a turnover exceeding US\$ 540 million, Maka will present solutions in automation, service and importantly, in Industry 4.0 solutions.

Moreover, Maka will present key examples of specific application solutions for doors and stairs and other areas of joinery and timber engineering.

## Maka automation

A good six months after being integrated into the listed automation specialist CSG ([en.csg.com.cn](http://en.csg.com.cn)), Maka will present itself at Ligna 2019 with a robot integration solution.

The focus here is on the ability to automate handling processes, including fixtures and tools, not only the components!

## Service competence

Competent service over the long working life of the manufacturing system is the main advantage. The purchase of any plant is the investment in a long-term service partnership.

Maka has massively strengthened the service and has further developed the Maka Direct Hotline and now has more than 30 service technicians, safeguarding users' operational readiness.



## Industry 4.0 competence

Maka integrates your machine into the IT landscape. The advantages for customers are obvious: Maka "picks up" the order from the customer's ERP system and manufactures the final product.

Batch Size 1 is just as possible as large production runs. Automatic setting via Zero-Point clamping, intelligent tool technology and material handling are components of the system solution in addition to the machining processes.

## Door production

Whether you need to process bespoke one-offs, or have big batch production with high automation, Maka is your door partner.

Extensive handling, multi-spindle milling, lock and hinge assembly, turning units and also packaging and labelling solutions are available and can be integrated at the end of your door production process.

## CLT production

Maka has extensive experience in the manufacture of CLT machines: Machining all six sides is possible with Maka's underfloor aggregates; CLT systems with five units; 100mm diameter saws; 80+ axes and over 50m long!

Maka CLT lines can be found operating successfully worldwide. This is woodworking machinery at the highest level.

## Staircase production

Where doors are in demand, a staircase must be used as a rule. With the newly developed PM Modular, MAKA can build your individual machine for your production of treads and risers.

## Mobile homes, caravans, yachts and car interiors and more

Maybe they're not always made from real wood, but whether composite, or the finest veneers, Maka has solutions for you for producing the most luxurious products.

For further information tel Maka on 01952 607700. Visit [www.maka.com](http://www.maka.com)

**AXYZ**  
AUTOMATION GROUP

# AXYZ INTERNATIONAL ANNOUNCES A MAJOR REBRANDING INITIATIVE

LEADING supplier of high-performance CNC routing and cutting solutions, Axyz International has announced a major rebranding and restructuring initiative.

It embraces a change in company name, a new corporate identity and re-aligned marketing strategy.

Implemented by the parent company

in Canada, the rebranding programme follows acquisition of the US-based waterjet cutting systems company WARDJet in 2018.

This signalled Axyz International's entry into the waterjet cutting sector and precipitated the decision to carry out a total rebranding programme.

In consequence, since the beginning of February, Axyz International has been trading as Axyz Automation Group, a name that recalls the company's inception in the 1990s when it was known as Axyz Automation.

More significantly, however, the rebrand serves as an indication of how the company has evolved over the years, with a much expanded product offering, greater market diversification and a high receptivity of the Axyz brand by the many industries it supports.

'The rebrand reflects our commitment to re-aligning manufacturing output in line with the demand for increased automation and the need to provide alternative solutions to traditional CNC routing systems where these are deemed to be more appropriate,' says president of Axyz Automation Group, Luke Hansen-Macdonald.

'The name of the company and its corporate identity may have changed but its values remain the same,' adds Mr Hansen-Macdonald.

Supporting the rebranding programme is a visually stronger and more distinctive three-dimensional logo and tagline, rendered in an equally prominent dark blue and light blue colour combination.

This will give Axyz Automation Group a new, stronger and readily identifiable corporate identity within the industries it operates and those it plans to exploit in the future.

'These changes will enhance the strong presence that the Axyz brand has built in the UK and Ireland over the years and help the shared objectives of developing new market opportunities for future business growth and prosperity,' says UK managing director, Mark Sweeney in welcoming the rebrand.

'The rebrand will help both existing and potential new customers to better understand and identify with what the Axyz Automation Group now represents and how it will continue to support their business objectives by enabling access to a much wider product offering and new technologies,' concludes vice-president development, Robert Marshall endorsing these sentiments.

For further information tel Axyz on 01952 291600. Visit [www.axyz.co.uk](http://www.axyz.co.uk)



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**NEXT  
MONTH  
LIGNA  
PREVIEWS**

# A NO-NONSENSE APPROACH CHARACTERISES FERWOOD

OWNER of Dewsbury-based GB Projects, Geoff Burrows has been in the furniture manufacturing industry for over 45 years, servicing the contract furniture and shopfitting markets.

With this experience in the industry comes an exceptional knowledge of machinery, how it works and the maintenance required to keep it running smoothly. A firm believer in the benefits of used machinery, he doesn't always need to spend unnecessary time, or money on sourcing new, or fully reconditioned machinery unless it's absolutely necessary.

His team of dedicated engineers has the skills to achieve the same results for less, making Ferwood UK's no-nonsense "As It Is" machinery package an ideal solution for his business.

'We decided to purchase a used five-axis CNC machine to dip our toe in the water,' says Geoff.

'We hadn't bought one before and, when compared to the price of a brand new machine, buying a used CNC machine was a relatively cheap way of exploring the machine's capabilities and the different business avenues it could lead us down,' adds Geoff.

Ferwood offers three distinctive machinery packages – "Approved", "Functional" and "As It Is". These offer a flexible approach to buying used machinery that meets the time frame, budget, or specification of each individual customer.

Geoff decided on Ferwood's "As It Is" machinery package. Designed for a quick and straight-forward sale, it gave him complete control of the machine, its handling and installation from Day 1.

'I've known Ferwood UK for a long time and I have every confidence in how they work. They are best known for their fully-reconditioned machinery and I can see why it's a very appealing option for many businesses.'

'However, my team has become fully conversant with the workings of CNC machines over the years and we regularly fix and service our own machines in-house. This new addition would be no exception.'

'We knew the machinery spec we wanted and we were keen to continue using the SCM brand, so as soon as we saw that the machine we wanted had become available, we organised the transport and installed it ourselves. The transaction was very straightforward,' explains Geoff.

The introduction of the SCM Record 110 NT 5-axis CNC machining centre has been a huge success for the growing business and, since its installation last year, it has opened new revenue streams for GB Projects.

'It didn't take us long to see that this machine was far superior to an average CNC machine and our idea to invest in a used five-axis CNC from Ferwood UK was the right thing to do,' proclaims Geoff.

'As well as it benefiting our day to day business, we now supply the industry with CNC work and panel processing requests that they cannot fulfil internally. We offer outsourcing on a nationwide scale and, thanks to the new SCM machine, we can supply smaller manufacturers with bespoke orders quickly and efficiently,' says Geoff.

'It is also more efficient. It offers new ranges of products for us to manufacture and because of this, allows us to fulfil the most challenging design requests from our customers, whilst

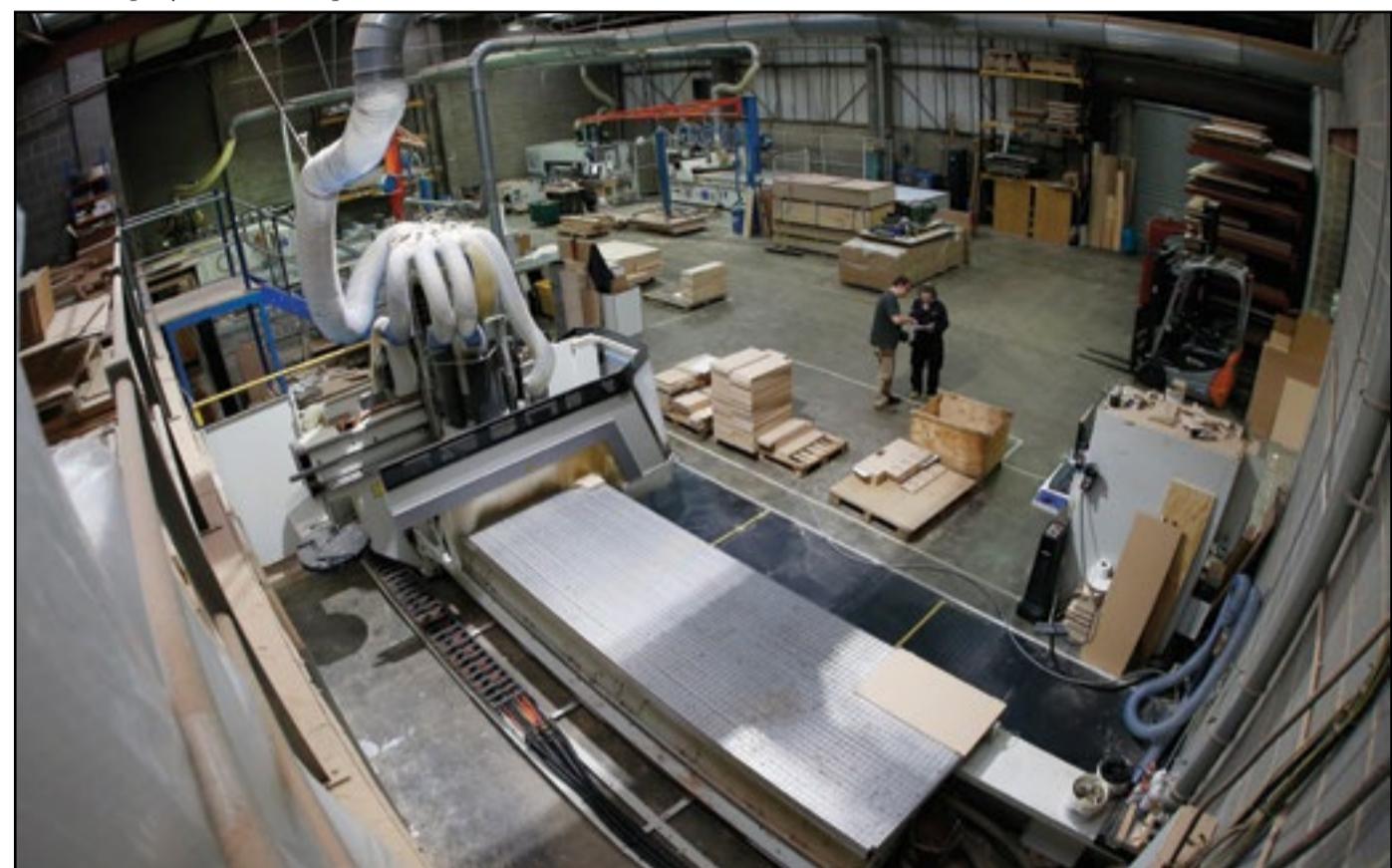
still offering us a greater margin.'

'This flexibility gives us endless design possibilities and allows us to complete jobs even faster. A five-axis CNC has certainly been a great addition to our machinery line-up and the machine itself hasn't let us down. In fact, it's done everything we needed it to do and more,' says Geoff.

'Our company ethos is to acquire the best and most modern

would happily continue to use them again and again,' says Geoff, speaking favourably of the relationship which his company has built up with Ferwood as a machinery provider of choice.

*For further information tel Ferwood UK on 0113 286 6689. Visit [www.ferwoodgroup.com](http://www.ferwoodgroup.com)*



machines we can afford and that gets better year on year. Our workshop contains a range of new and used machinery but, on this occasion, the right decision for us was a non-refurbished machine from Ferwood.

'We know what we want and what to expect when we purchase woodworking machinery but Ferwood UK is always there to offer insight into the machine and its capabilities. They are also always on the end of the telephone if you're looking for an honest opinion on something you're looking for or working on. You couldn't fault their product knowledge and professionalism. Should the opportunity arise, we

**Whatever your Wood Welder or clamping requirements, we can help!**

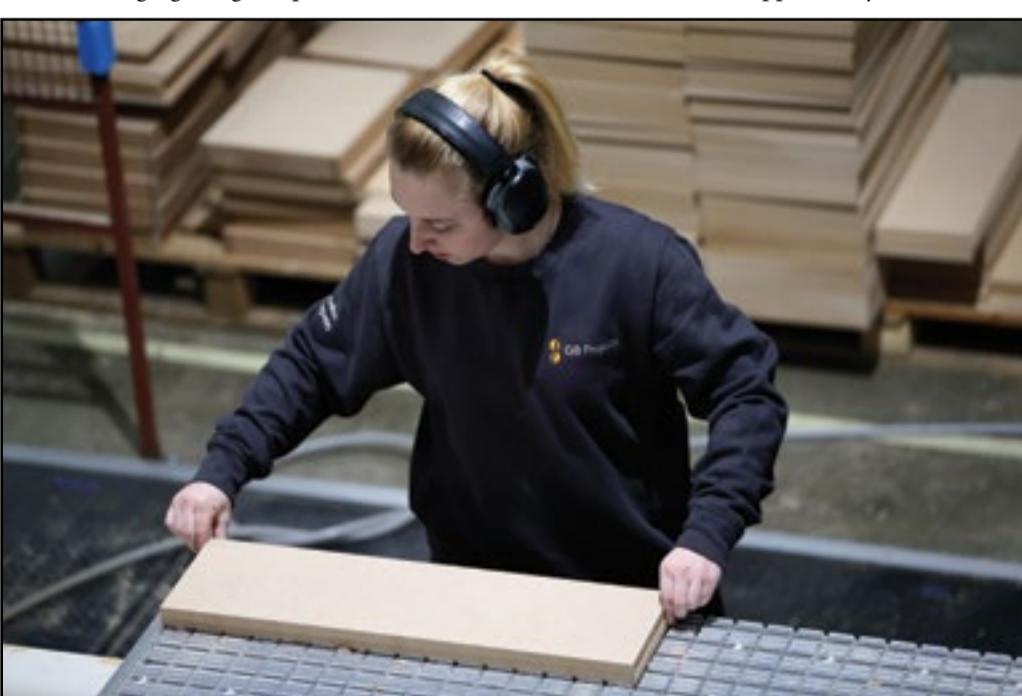
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# WEINIG'S RENOWNED UNIVERSAL LONGITUDINAL CIRCULAR SAW - IDEAL FOR CUTTING PANELS, PLANKS AND BOARDS

## FUTURE PROOFING WITH THE WEINIG FLEXIRIP



DANIEL Schläpfer was recently faced with a few challenges. Fifteen years ago, he was able to offset the slump in revenues in the construction industry with high flexibility and expanded production depth. Now, once more, he has taken forward-looking action.

Competition among Swiss sawmills is fierce. Out of 1,500 sawmills that were active in Switzerland around 15 years ago, just 300 remain.

Those who want to survive must be flexible and produce profits. Since the crisis in the construction sector, Scierie de Cornaux on Lac de Neuchâtel near the legendary ski resort of La-Chaux-de-Fonds in Switzerland has increasingly focused on private orders.

Now, a good blend of special orders, such as stair treads, as well as a number of major orders, ensures high capacity utilisation.

In order to ensure that business remains strong in the future, Daniel Schläpfer took the decision to modernise his production operation.

It was essential for him that the new saw could be used universally – without elaborate and time-consuming pre-setting when changing from one application to the other.

It was for this reason that he invested in a latest generation Weinig FlexiRip JironLine longitudinal circular saw.

The genuine Jiron from Weinig offers universal applications in

small, medium-sized and large operations. When it comes to cutting planks, boards and panels, the FlexiRip has established a reputation as an efficient and flexible longitudinal circular saw.

Customers particularly appreciate the high levels of flexibility, the optimal wood recovery and the one-man operation. FlexiRip provides the solution when it comes to universal application.

In addition to solid wood, a range of other materials can also be cut, including a variety of panel types. The

FlexiRip's cut length and usable width is harmonised with its workpiece dimensions.

Operation is simple: lay and align the workpiece on the machine table and initiate cutting via the pedal! When the pedal is released, the saw blade dips and returns to the start position. The feed speed can be continuously and finely adjusted from 0-80m/min.

Combined with a compact mechanisation concept, the machine runs daily throughout a nine-hour shift at the Swiss sawmill.



*When it comes to cutting planks, boards and panels, Weinig's FlexiRip has established a reputation as an efficient and flexible longitudinal circular saw.*

# PANELS & PANEL PROCESSING... PANELS & PANEL PROCESSING

The guide system of the saw carriage is significantly optimised for even better cutting quality.

The saw carriage is guided via lateral rollers on wear-free, hardened and precision-ground tracks.

When the cutting pressure becomes excessive, the anti-blocking system is automatically activated. This concept ensures play-free action and high cutting precision in the 1-10mm range. At the same time, optimal safety is guaranteed.

The positioning fence is adjusted via play-free and low-wear ball screws. This ensures smooth and even running and optimal dimensional accuracy, even with difficult workpieces.

Ergonomically placed joysticks and a user-friendly large digital display help prevent operator fatigue.

The front machine table elements comprise special, low-friction, abrasion-proof plastic, allowing easy movement and alignment of heavy workpieces.

The plastic supports are also prismatic on the side. These enable easy insertion of various options (e.g. ball bearing plates, bevel supports, mitre fence etc) at any position on the machine table.

The FlexiRip can be fitted with various options: the FlexiCut crosscut saw converts the FlexiRip into a modern cutting line.

The result is an efficient, one-man solution for cross sections and longitudinal cutting. The FlexiCut is mounted on guides and can easily be set to the required depth according to the width of the workpiece. This concept creates efficiency, as well as significant savings in terms of space.

The automatic kerf seal (patented) prevents wood chips from entering the interior of the machine, with the result that eliminating the need for manual removal of wood chips creates significant time savings.

The parallel clamping pressure of the hold-down unit guarantees secure material clamping during cutting, even if the work piece is not centred.

In a second version, the hold-down unit is equipped with a wooden insert and rubber coating, which guarantees a secure hold even when cutting slender workpieces.

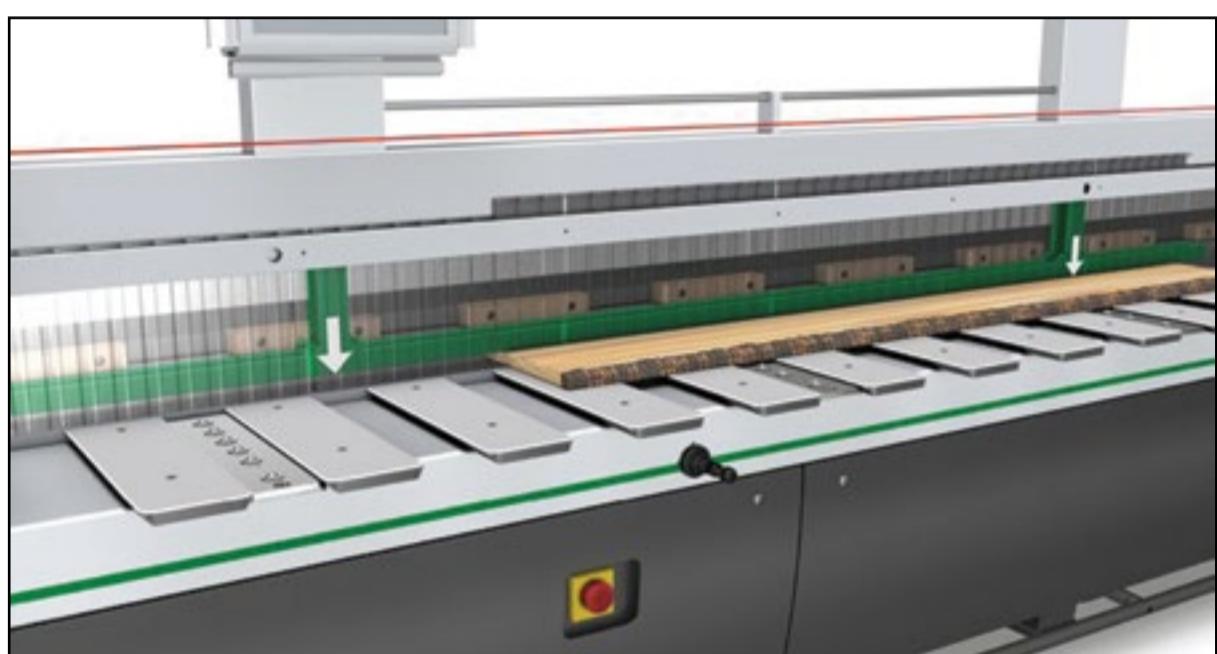
All in all, the new FlexiRip fulfills the objectives of producing more profitably and achieving higher capacities to the complete satisfaction of the sawmill.

'It was the right decision. With the FlexiRip, we have laid the foundations for growth and future-proofing,' concludes company boss, Daniel Schläpfer.

For further information tel Weinig on 01235 557600.  
Visit [www.weinig.com](http://www.weinig.com)



*The addition of the FlexiCut crosscut saw turns Weinig's FlexiRip into a modern cutting line.*



*The parallel clamping pressure of the hold-down unit guarantees secure material clamping during cutting, even if the work piece is not centred*



*Weinig's patented StripLock automatic kerf seal prevents wood chips from entering the interior of the machine.*



*On the Weinig FlexiRip the guide system of the saw carriage is significantly optimised for even better cutting quality.*



*The positioning fence is adjusted via play-free and low-wear ball screws which helps to ensure smooth and even running and optimal dimensional accuracy, even with difficult work pieces.*



*The front machine table elements comprise special low-friction, abrasion-proof plastic, allowing easy movement and alignment of heavy workpieces.*

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# MARTIN MACHINES RISING FROM THE ASHES FOLLOWING DEVASTATING WORKSHOP FIRE

LAST November a family joinery company in Kent, run by Fred Williams and his son, David, went up in flames. At the height of the conflagration, six fire crews were on the scene to battle the blaze.

Neighbours were evacuated at a precaution and it was not until 11am the following morning after damping down the wreckage and using an infra-red camera looking for any remaining hot-spots that they were allowed to return to their homes.

'I was devastated. The first I knew about it was when I got a call at 1.30am to say that the workshop was on fire,' said David Williams.

'I was gutted. We had a full order book and were snowed under with work,' he added.

The company, which had occupied the same site since the early 1990s, specialises in the production of bespoke wooden windows and doors.

In the fire the workshop's windows were blown out and the roof caved in.

According to fire crew manager, David Miller, the structure was well alight when the fire crews arrived on the scene and it was deemed to be too dangerous for them to enter the building.

One of the first on the scene was Border Force officer, Olly Gibson.

'As I came over the hill into the village I could see an orange glow and then as I got closer, I could see a fire. It was raging and well alight with flames engulfing the building,' said Olly.

'It was like something from the apocalypse. There were flames, sparks and embers being blown across the road by the wind,' he added.

'With another passing motorist, I was going up and down the road knocking on doors to raise the alarm,' added Olly.

'The flames were already going through the roof and the heat was extreme. About half-an-hour later there was a noise like thunder and the whole roof collapsed. It was like a disaster movie,' said Olly.

Most of the woodworking machines in the company's workshop were lost in the blaze, including a Martin T12 and T45.

Following the devastating fire, the company set up again immediately in temporary workshops and ordered replacement Martin machines – the T12 spindle moulder and the Martin TP300 planer/thicknesser.

The Martin TP300 combined planer/ thicknessing machine is durable, even in the smallest space, delivering top quality surface and thickness planing results.

Thanks to its robust, cast iron machine table and a powerful feed, the compact machine offers superb results from the outset.

Its ease of use and ergonomic operation support smooth work and reduce expensive set-up times.

Switching from surface planing to thickness planing and vice versa can be carried out in a matter of seconds. There is an option for electro-motor assistance for folding the machine table up and down. The integrated chip hood is always in the correct position - no need to move it.

The quick and simple adjustment of the chip removal and the easy adjustment of the edging fence ensure accurate surface planing and joining work.

The thicknessing table sits on four jack screws and ensures constantly accurate thickness planing results. The height is adjusted quickly and easily by an electric motor according to a digital display.

The operating elements of the TP300 are easily accessible and clearly located on the front side of the machine.

Options such as the automatic star-delta start-up, or the motorised unfolding of the table make handling easier and improve performance.

The smooth surfacing fence of the TP300 allows for easy and accurate adjustment at every angle between 90 deg and 45 deg. Optionally, the fence can be equipped with an auxiliary fence for safe working with thin work pieces.

The TERSA solid cutter block with four blades ensures the best surfaces. By using dummy blades, it is possible to quickly and easily switch between Z4 and Z2 mounting. It only takes seconds to switch blades and there are four blade qualities to choose from.

The sliding rollers in the thicknessing table are ideal for all construction companies, carpentry shops, or sawmills that mainly work with resinous and green woods. The rollers are not suited for anyone who places maximum value on perfect surfaces.

The tables are quick and easy to unfold with spring assistance, or electrically on request. Connection to the extraction system is always maintained, which saves set-up time.

A consistent moulded surface cannot simply be ordained. However, it's so simple with the compact Martin T12 spindle moulder.

It features a highly functional, but easy-to-use control system and represents excellent value-for-money.

The T12 is an ideal spindle moulder for any joinery workshop. With its individual customisation options, it is the perfect spindle cutter for a wide variety of applications.

Motorised positioning of the fence enables all the settings, which were previously made with the hand-wheel to be made comfortably and accurately via the control unit.

The fence settings can be approached with pinpoint accuracy owing to reproducibility of +/- 0.025mm, which is extremely high for a compact-class machine. Even critical settings, for example, for counter profiles, can be precisely positioned.

The positioning of the right-hand fence jaw via hand-wheel is displayed on the control unit with a high degree of accuracy.

Not only does this replace the scale and the Vernier scale, but the electronically recorded position of the fence jaw can also be saved in the controller and quickly accessed when needed. The incremental movement is also easily possible owing to the integration in the controller.

The table extensions are executed in cast iron on both sides and connected to the machine table completely without a transition. The stable, extendable support provides support at the front. The processing of large components is therefore a simple matter.

The fence opening should be closed as much as possible, so that the work piece can be safely guided and slide along the fence. Both are provided by the tried and tested integral fence.

The bars of the jaws consist of hard-coated aluminium and can be easily folded in position, released and also varied in height. The bar cassettes can also be removed effortlessly, allowing the operator to work with a wooden insert.

**For further information on Martin tel 00 49 8332 9110. Visit [www.martin.info](http://www.martin.info)**  
**For further information on F J Williams tel 01795 521650. Visit [www.fjwilliams.co.uk](http://www.fjwilliams.co.uk)**

*The Martin TP300 planer/thicknesser delivers top quality surface and thickness planing results.*

# PANELS & PANEL PROCESSING... PANELS & PANEL PROCESSING



The fire at the joinery workshop began in the early hours of the morning.



Gutted: the burnt out remains of the FJ Williams workshop in Kent.



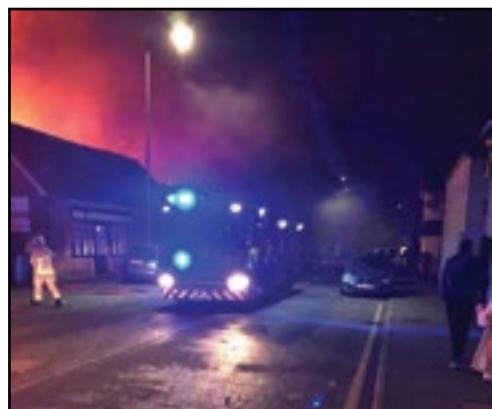
The joinery workshops at Teynham in Kent at the height of the blaze.



Olly Gibson was the first to arrive on the scene when flames engulfed the joinery workshop.



Flames burst through the roof of the premises occupied by FJ Williams.



Firefighters arriving to tackle the blaze at the joinery workshops.

You can make something from this milling pattern.

Compact in class, premium in performance. The T12 is our compact spindle moulder with all MARTIN premium features. On the one hand its highly functional, but still simple to operate control.

Explore T12 now – at [www.martin.info](http://www.martin.info)

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# WEINIG HELPING COMPANIES TO REMAIN AT THE CUTTING EDGE

THE detection performance of scanners is constantly improving. Installation of these hi-tech devices is now almost a matter of "plug and play".

The example of Möbelwerke A. Decker at Borgentreich in Germany demonstrates how it all works. Here, wood arrives as raw boards and leaves the factory as modern pieces of furniture.

'We are one of only furniture manufacturers to offer such high value creation. We produce furniture entirely out of solid wood and even manufacture the solid wood panels used ourselves,' says managing director, Andreas Decker.

The company is constantly investing in new machinery to remain at the cutting edge of technology.

'Based upon our many years of successful collaboration, we opted for systems from the Weinig Group,' explains head of production, Rainer Weitzenbürger.

In summer 2016, the customer commissioned a CombiScan Evo C200 and a ProfiPress T "Next Generation".

High-end sensors in a range of combinations create a perfect basis and fulfil every requirement of modern production processes.

The CombiScan Evo opens up completely new optimisation potential for your production. At the same time, the technology ensures optimal production control and transparency in the

production process. Optimal detection of the wood features is a decisive factor for expedient optimisation of the raw material.

All wood features differ in their individual characteristics and their detectability for the various scanners.

The modular sensor concept of the scanner is inspired by this situation. This allows Weinig to offer each customer a customised solution.

Simple optimisation is the key to efficient production. The CombiScan Evo can be linked with various Weinig machines, such as cross-cut saws, rip saws and sorting systems.

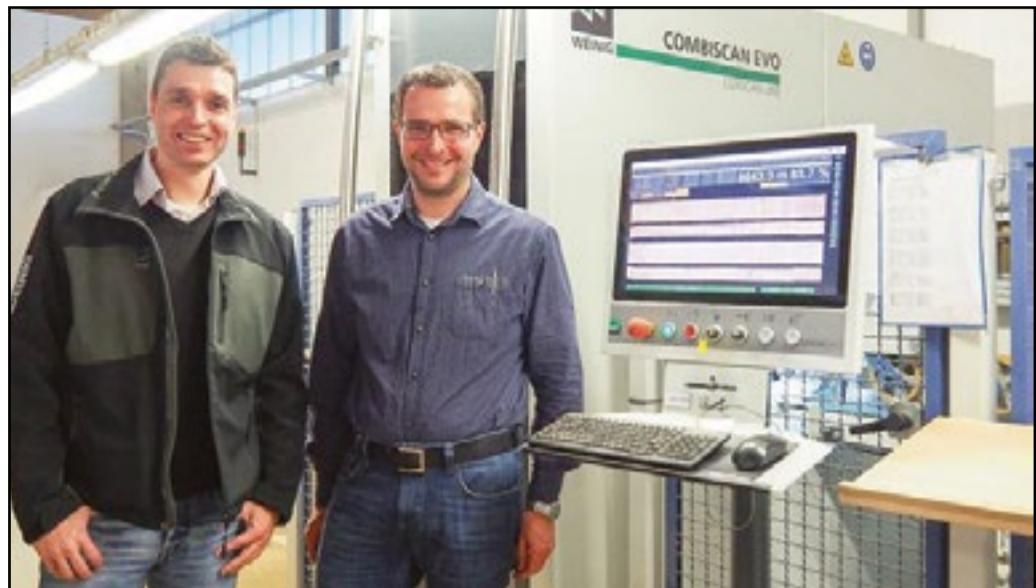
The high-performance optimisation software allows a variety of qualities and zones to be created and combined into multiple end products.

The products and qualities are stored in a database and can be selected at any time via drag and drop. The logical user interface of the scanner simplifies settings in a visual way providing simple operation for all.

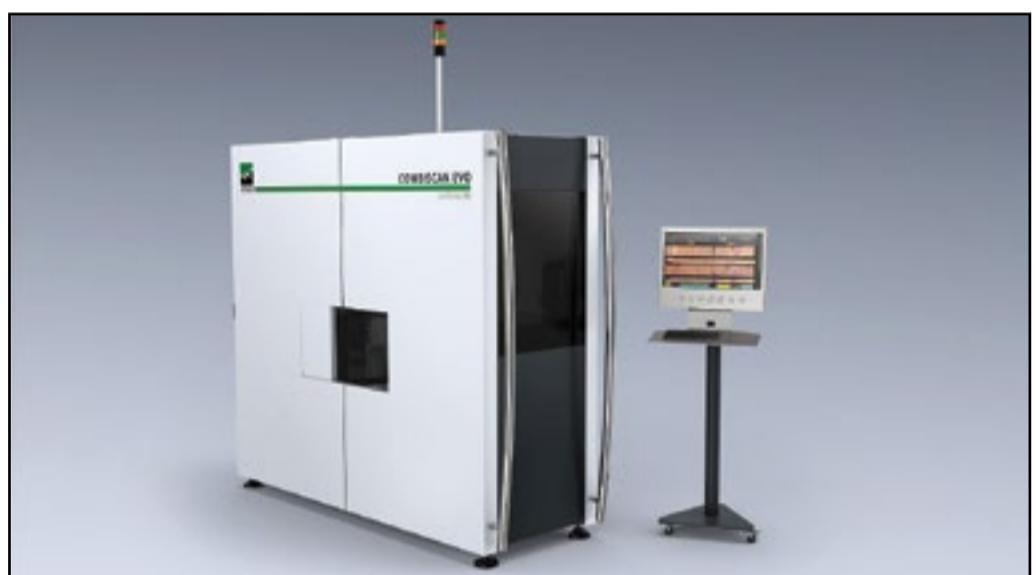
The modular design of the CombiScan Evo allows various sensor technologies to be combined together as modules in accordance with customer requirements.

This provides a custom-made machine with a perfect sensor combination and with a very good price-performance ratio.

The standard laser camera enables



*The CombiScan Evo at Möbelwerke A. Decker is used to detect unwanted wood features.*



*The CombiScan Evo detects colour defects, such as sapwood, or redheart extremely reliably.*

detection of defects on up to four sides. Colour features are recorded and reliably recognised with an additional high-resolution, colour camera.

Not only is it possible to detect blue stain, for example, but it is also possible to sort by colour features.

Lamellae for edge glued panels, for example, can be classified and sorted in colour grades before pressing.

An X-ray sensor is also used for defects with varying densities. This enables the machine to look at different surfaces and classify defects according to density. Sensors for shape measurement, moisture, unplaned areas etc. complete the picture.

The scanner also features automatic moving cameras based on a unique mechanical design. This allows for simple, automated changes to the cross section and can also be designed to process random width products at the same time.

Thanks to the available sensor technology and modular design, the CombiScan Evo always remains future-proof and adaptable to new challenges in production.

The use of the CombiScan Evo enables you to reduce labour costs, whilst maintaining quality and increasing

productivity and flexibility, since the sorting criteria can be quickly and easily changed.

At Möbelwerke A. Decker the CombiScan detects unwanted wood features and forwards the data to the OptiCut 450 Quantum high-performance cross-cutting system.

The OptiCore Direct visualisation displays the scanner results, including the required crosscuts. The scanner has four-sided laser and colour cameras.

'Due to the high resolution, the scanner detects colour defects, such as sapwood, or redheart extremely reliably,' says Jörn Dittgen of Luxscan.

'In the latest version, we have improved width measurement, which is particularly beneficial for panel production,' he adds.

'The scanner is equipped with laser sensors, as well as lasers to detect diagonal cracks (Angle-Cracks Module - ACM).

Thanks to the use of four specially positioned lasers, the ACM is able to obtain decisive additional information for detecting diagonal cracks.

Commissioning was simple:

'The scanner worked almost at the push of a button,' says Rainer Weitzenbürger.

*For further information tel Weinig on 01235 557600. Visit [www.weinig.com](http://www.weinig.com)*

# CHEERS TO WEINIG FOR HELPING GLUES PANELS FOR OKTOBERFEST

VERY few visitors to the Oktoberfest would guess that the beer tables and benches, which often witness late-night dancing and frivolity, are now made in Transylvania.

Owing to the massive demand for this hard-wearing furniture, the manufacturer, Bucin Mob, invested in an endless gluing and pressing line from Weinig, so that they could produce the solid wood panels more efficiently.

The ProfiPress T is one of Weinig's most popular gluing presses, offering a cycle press with cross feeding for wood lengths of 500mm up to 6,400mm.

This intelligent technology can press panels of different lengths and widths at the same time in one cycle.

Up to six pressing ribbons are possible within one press cycle. This allows the operator to achieve a maximum flexibility at a high level.

Purchasers can determine how an individual machine is equipped with various upgrading possibilities available and most

of these can even be retro-fitted. Different feeding types can be selected, either from the right, or left, or from both sides, as well as the cross saws in the outfeed area of the press.

The Weinig ProfiPress T series offers good levels of efficiency, even when producing small batches and there are unlimited panel width possibilities.

The Weinig ProfiPress boasts optimum machine utilisation at all times, as the result of a system that is not dependent on width. It also offers low post-processing, as a result of minimum additional sanding.

The ProfiPress range is ideally suitable to be integrated into system solutions and, perhaps the most important feature of all is the extremely efficient input of high-frequency energy in the glue joint.

*For further information tel Weinig on 01235 557600.  
Visit [www.weinig.com](http://www.weinig.com)*



A company in Transylvania which specialises in producing beer tables and benches, such as those typically to be seen by visitors at the Oktoberfest has purchased a Weinig ProfiPress T gluing press.

## WEINIG PROVIDES THE CENTRAL COMPONENT FOR HEAVY CUTTING

IN the timber-rich Italian Puster valley, there are numerous carpenters. This makes differentiation important.

Weisseiner does this with a clear strategy that also takes account of the cramped conditions.

Many machines, little room – such is the situation in the Weisseiner father and son workshop. Despite this, there are never any "traffic" jams.

The completely modernised production facility is a strong process-oriented system with optimal interfaces and it has been carefully assembled to drive forward the specialisation in high-quality solid wood panels.

'It was important for us to be able to receive everything from a single source and that the machines are equipped with the same user interface,' says Stefan Weisseiner.

The central component of the system is a Weinig OptiCut C 700 cross-cut saw, which performs the heavy cutting.

A VarioRip 310 M multi-blade rip saw is responsible for splitting the boards. With its two adjustable saw blades, the machine significantly improves wood recovery.

An OptiCut S 50 push-feed saw cuts the lamellae for the solid wood panels. The machine is integrated into the CAD/CAM software and receives all parts lists via the office.



Gluing is performed by a ProfiPress L 2500 with high frequency technology.

*For further information tel Weinig on 01235 557600. Visit [www.weinig.com](http://www.weinig.com)*





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# WOOD WASTE TECHNOLOGY WORKS HARD TO MAXIMISE RHI PAYMENTS FOR CUSTOMER

WOOD Waste Technology has recently installed one of its biomass hot water boiler systems into a company in Essex that was looking to reduce its waste disposal and heating bills whilst benefitting from the Renewable Heat Incentive (RHI) scheme.

A state-of-the-art wood waste boiler was installed into Anglian Vehicle Linings Ltd, a specialist ply-lining vehicle and accessory company that has been operating in Clacton-on-Sea since 1998.

When Anglian Vehicle Linings moved to new larger premises in 2017, managing director, David Byatt realised that it was time to look into a biomass boiler, to heat the new workshop and reduce some of the business waste disposal costs.

'We end up with a substantial amount of waste wood and the amount of waste increases the busier the business gets. I'd read about the benefits of biomass boilers, then realized that our business could qualify for some of the Renewable Heat Incentive (RHI) payments,' says David.

'That's when I got in touch with Wood Waste Technology, to find out more about its biomass boilers that provide space heating for the factory, plus heating and domestic hot water for the rest of the building' he adds.

The Government's Renewable Heat Incentive (RHI) offers substantial financial benefits to companies who invest in new biomass technology.

Wood Waste Technology's revolutionary boiler, the WWT199/209 is one of the most efficient wood waste boilers available in the UK and offers the highest standard for efficiency and emissions.

It has been independently tested at 92.4 per cent efficiency, allowing it to qualify for the Energy Technology List.

Businesses that purchase products listed on the ETL benefit from 100 per cent first year enhanced capital allowances on their expenditure.

It was also the first in the UK to be declared fully compliant with the RHI scheme without the need for additional flue gas filtration equipment (significantly reducing the investment

and on-going maintenance costs of a RHI compliant boiler).

It offers the largest possible heat output under the Environment Agency's U4 and D6 permit (under 50kg/hr) and it does not require a local authority part B permit (England & Wales), which saves money on the initial investment as well as the yearly testing requirements.

As a Carbon Trust Accredited Supplier, Wood Waste Technology's boiler can also operate in clean air zones under the Clean Air Act, as it meets the two highest standards in emissions regulations, so is able to be used in even the sternest of jurisdictions in the UK.

Wood Waste Technology also has a 100 per cent success rate in RHI applications for companies burning chipboard and MDF.

The high efficiency of the boiler helps it provide up to 20-25 per cent more heat from your wood.

After a site-survey and quote from Wood Waste Technology, David realised that with the benefit of free heating for the



workshop, the chance to save on waste-disposal fees by being able to burn the majority of his waste, plus the generous RHI payments, it was a sensible business investment.

However, the race was on to purchase, as at the time a decision was made, a drop in the RHI tariff was imminent.

Although it was tight, Wood Waste Technology's experienced engineers pulled out all the stops to finish everything by the deadline, to allow the customer to claim the highest rate of RHI possible.

David and his team are delighted with the new boiler, especially its flexibility and user-friendly features, such as how the boiler can run from 30 per cent up to full capacity, so can be turned down when the factory is empty to make better use of resources and give the company a greater return on each kilogram of wood waste.

'Our waste disposal costs have reduced dramatically, as we can now burn 80 per cent of the waste we produce, saving us over £30,000/year on skip hire,' says David.

'The guys are happy in their nice warm workshop, and we've already received around £13,000 in RHI payments to date.'

'I'd definitely recommend this to other businesses who generate a significant amount of wood waste, it just makes financial sense.'

'We can't thank the team at Wood Waste Technology enough for how they helped us maximise the financial benefits available from the RHI scheme. They've been brilliant to deal with all through the process, from quotation to installation,' says David

'We were also highly impressed how at they were able to access our boiler remotely through a team viewer, which was very helpful and re-assuring in the early days whilst we were getting to grips with the new system,' adds David.

Wood Waste Technology's years of expertise in wood waste solutions have helped many companies reduce their waste disposal and heating costs.

For further information tel Wood Waste Technology on 01785 250400.  
Visit [www.woodwastetechnology.com](http://www.woodwastetechnology.com),  
[www.grossuk.co.uk](http://www.grossuk.co.uk) or [www.putzmaus.co.uk](http://www.putzmaus.co.uk)

## A CUT ABOVE THE REST!

### Welcome to the Industrial Woodworking & Panel Processing Website!

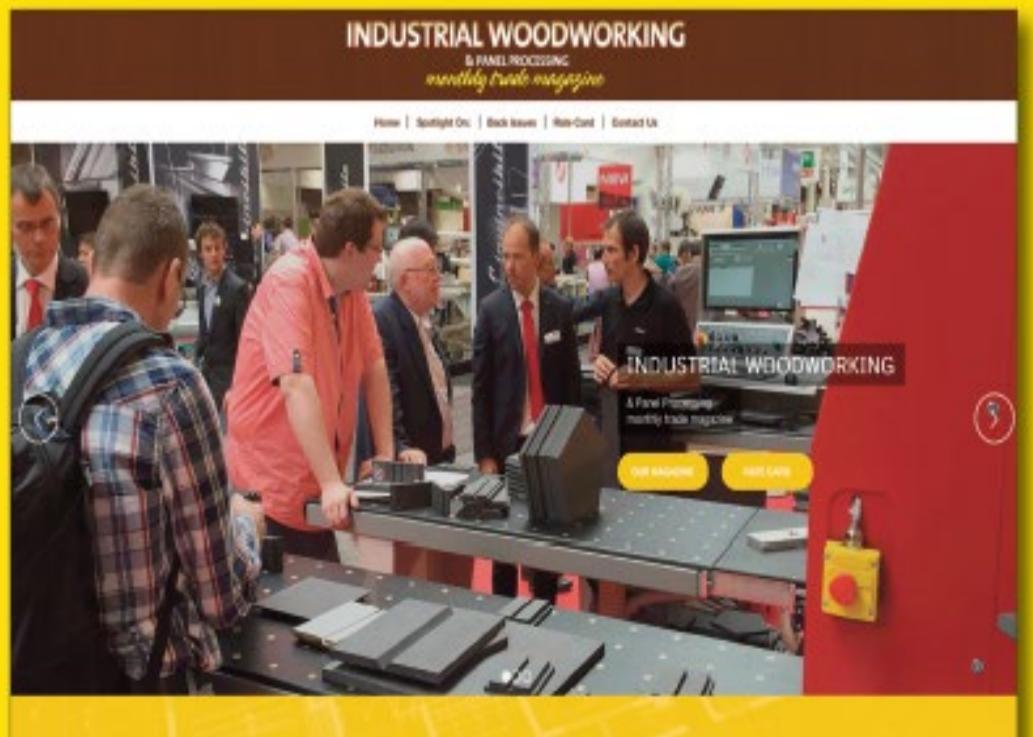
Our website provides an introduction to the magazine and is updated every single month. It is designed to be quick and extremely easy to use with every one of the previous year's magazines appearing online, providing the woodworking professional with easily accessible information at their fingertips.

Quite simply, our website provides you with relevant and informative information in a straightforward, no nonsense style.

Whether you want to view our current issue BEFORE the magazine itself is published, or whether you wish to research articles which have appeared during the previous 12 months, it is all readily available to you.

John Emslie - Publisher

**[www.industrialwoodworking.co.uk](http://www.industrialwoodworking.co.uk)**



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# FESTOOL TOOLS HELPS DESIGN STUDENTS

LOCATED in Hooke Park, Dorset, Wakeford Hall has been constructed by students as part of the Architectural Association School of Architecture's Design and Make Programme.

The project includes the construction of a brand new library, lecture theatre and reception facilities, all of which have been built using tools from leading power tool manufacturer, Festool.

The six-year project, due to be completed in 2023, will see students of the Design and Make Programme construct the entirety of Wakeford Hall. The students have carefully considered the surrounding forest area throughout the construction process to incorporate innovative uses of timber within their designs.

The project is using an extensive range of Festool products on the site. Most recently the students have been using circular saws to cut and shape the stack laminated wood that is being used for the structural frame of the library – the structure includes 14 interlocking glue-laminated timer frames, showcasing the students' innovative approach to timer construction.

Combining Festool's circular saw with the guide rails has ensured that the students are producing precise quality cuts, repeatedly. With the spring-mounted guide wedge, preventing kick-back, Festool circular saws help minimise the risk of injury to the students – a key consideration for the project managers overseeing the students' work.

Festool's cordless drills are also being used on the Wakeford Hall project. The cordless drills enable the freedom of movement of



battery powered tools with torque needed to drill into the wood effortlessly.

Festool's QUADRIVE cordless percussion drill in particular has been proved to be popular, enabling the team to drill long timber screws easily, guaranteeing the stability of the structure.

'Festool's tools have been a huge assistance to us on site. The

students have been able to create cuts and finishes that would have been far more difficult to achieve with alternative products,' says project manager, Jack Draper.

'The guide rail has enabled us to achieve pin-point accuracy with cuts and the long battery life of the cordless products has allowed the team to work on site for longer, without the need to constantly recharging or replacing the battery packs,' adds Mr Draper.

'Festool's SYSTAINER T-LOC system has been another major benefit to us. Working in a forest means that all of our tools have to be packed away at the end of each day and brought back on to site the following day. This can be a lengthy process,' says Mr Draper.

'However the SYSTAINER T-LOC enables us to connect multiple tools together and transport them easily to and from the workshop. We could not be happier with the functionality of the Festool system and the work that it has enabled us to achieve at Wakeford Hall so far,' concludes Mr Draper.

'We are thrilled to have been able to assist in the creation of Wakeford Hall and be a part of the education of the next generation of architects and builders. The Festool system has been designed for improved usability and fantastic results - the work completed by the students so far has showcased this,' says Festool's marketing manager, Philipp Glaser.

**For further information tel Festool on 01284 760791. Visit [www.festool.co.uk](http://www.festool.co.uk).**

## REDUCING PROCESSING TIMES ON WOODEN SURFACES

PRIMING wood surfaces can take several hours, but with Hesse's Fantastic-Fill primer professionals could save up to 50 per cent in coats and processing times.

For a first-class finish, primer is a necessity, which should form the foundation of any wood-finishing project. When applied properly, primers improve a wood's surface adhesion for spraying, protect against wear and tear and dramatically improve the overall surface finish.

However, there's no denying that the process can be a tedious one – with many primers taking hours to dry, depending on the type of wood you're preparing and the type of primer you're using.

With this in mind, Redwood Innovation is shining a spotlight

on Hesse's Fantastic-Fill primer – a polyurethane isolation primer, suitable for interior wood surfaces and typically saves professionals up to 50 per cent in coats and processing times.

A modern solution for an age-old problem

Using the latest technology, Fantastic Fill was developed by Hesse to deliver powerful filling and levelling effects, which naturally optimise sanding characteristics – meaning that up to 20 per cent less sanding is required and the process can take place just two hours after application – a rarity in the current primer market place.

What's more, a surface treated with Fantastic-Fill can easily be lacquered shortly after the surface has been treated. This best-in-

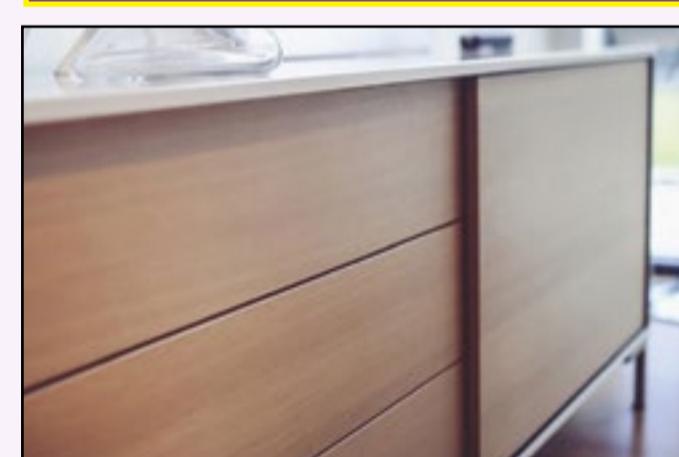
class technology results in significantly reduced processing times, without compromising on the quality of finish.

Safety first

As well as driving innovation in the lacquer industry, Hesse prides itself on the safety of its products. Fantastic-Fill surpasses all current industry standards for heat, chemical and scratch resistance and meets the most stringent testing for Class B1 fire certification, as well as Fire performance to EN 13501-1 and IMO certification.

The Fantastic-Fill formulation is free from wood preservatives, toxic heavy metals, phthalate plasticisers and formaldehyde – making it suitable for a wide range of wood surfaces, including shopfitting interiors, fixtures, bathrooms, kitchens and marine interiors.

**For further information tel Redwood Innovations on 02392 233310. Visit [www.redwoodinnovations.co.uk](http://www.redwoodinnovations.co.uk)**



## THE SCREW-TITE REVOLUTION CONTINUES

SCREWFIX has launched of the next generation of Screw-Tite® award winning screws, designed to be the best performing woodscrew on the market.

The new Screw-Tite®2 product not only incorporates all the unique features of its predecessor, but now with several new advancements, it provides the ultimate product in screw technology.

When the original Screw-Tite® screw made its debut, it revolutionised the Trade and DIY market in terms of performance, quality and price.

Now, following extensive re-development, the new Screw-Tite®2 version offers even greater benefits for a wide range of applications.

The new screws benefit from a Dowel-Tite® Shank and dowel ream just below the head, a clever twist on tradition which reduces lateral movement and ensures that the timber is clamped securely with a firm fix.

The larger diameter of the reaming shank ensures a perfect fit for the shank and reduces timber splitting.

The unique 'Tri-Lock™' thread form system, with a single thread and acutely angled twin thread on the same screw, allow it to work on a wide range of modern building materials, including hard and soft wood.

In addition, the unique thread system provides 25 per cent less insertion torque, avoiding timber damage, whilst still delivering a superior grip and a straight, smooth easy drive.

Screwfix's Click & Collect service allows customers to order over the phone or online and pick-up their goods from a store in as little as one minute.

**For further information tel Screwfix on 03330 112112. Visit [www.screwfix.com](http://www.screwfix.com)**



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# OVVO MAKES ALL THE RIGHT CONNECTIONS

THE OVVO® V-1230 Konnekt Series brings the innovative, award-winning design features of OVVO® to a new range of components, which allow manufacturers with all types of woodworking equipment capabilities to access the benefits of OVVO®.

The new Konnekt series enables furniture designers and manufacturers to design furniture with the end user experience at the heart of the process, that is quick and simple to assemble and offers significant time savings throughout the assembly process.

The OVVO® V-1230 Konnekt series consists of a range of components that now allow manufacturers with nesting, drilling and end milling capabilities to easily integrate the patented OVVO® connection profile into their designs and deliver significant benefits and improvements for the end user, without the use of tools, screws, or glue.

All components work in all board types, solid woods and panels from 15mm and above and all work interchangeably:

OVVO® Konnekt V-1230 for Nesting: a push-in component, which requires only a single 25mm drill hole.

OVVO® Konnekt V-1230 for End Drilling: incorporates two invisible, self-locking, dowel-type "pins" with 32mm centres that use the inbuilt tolerance of the housing to deliver a secure hold.

OVVO® Konnekt V-1230 for End Milling: an invisible three-part system with inbuilt tolerances and automatic alignment.

OVVO® Konnekt V-1230 for End Drilling: easily attaches and automatically aligns drawer slides without tools, can also be used for attaching other metal brackets to furniture.

Each component is available in permanent and releasable versions.

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Scheppach Forsa Series professional panel sizing saws are distinctively German from head to toe. German technology - German innovation - German quality - and five models to choose from offering between 1.6m and 3.2m length of cutting stroke. All Forsa Series come complete with patented integral motorised cast iron pre-scoring unit whilst still retaining a 107mm depth of cut for ripping solid timbers plus micro rip fence setting to within 1/10mm. The precision sliding beam can be equipped with optional professional sliding table carriage with telescopic arm and table width extension (TWE) as illustrated. (Both included in prices quoted below.)

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**Forsa 8.0**  
2.6m Panel Sizing Saw

| Model          | Product Group Series | Specification Includes<br>(as per quoted price) | Mc HP / Scorer / Volts | Depth of cut & length of stroke | Price Exc VAT - Plus Carriage | Price Inc VAT - Plus Carriage |
|----------------|----------------------|-------------------------------------------------|------------------------|---------------------------------|-------------------------------|-------------------------------|
| Forsa 3.0 - PI | Workshop             | Inc Professional STC + TWE + TLE + Scorer       | 5.2 / 1.0 / 415v       | 87 mm x 1.6 m                   | £2,895.00                     | £3,474.00                     |
| Forsa 4.0 - PI | Workshop             | Inc Professional STC + TWE + TLE + Scorer       | 6.5 / 1.0 / 415v       | 107 mm x 1.6 m                  | £3,895.00                     | £4,674.00                     |
| Forsa 4.1 - PI | Workshop             | Inc Professional STC + TWE + TLE + Scorer       | 6.5 / 1.0 / 415v       | 107 mm x 2.3 m                  | £3,995.00                     | £4,794.00                     |
| Forsa 8.0 - P3 | Professional         | As Illustrated above                            | 6.5 / 1.0 / 415v       | 107 mm x 2.6 m                  | £5,420.00                     | £6,504.00                     |
| Forsa 9.0 - PS | Professional         | As Illustrated above                            | 6.5 / 1.0 / 415v       | 107 mm x 3.2 m                  | £5,575.00                     | £6,690.00                     |

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APRIL 2019

INDUSTRIAL WOODWORKING AND PANEL PROCESSING

21

# ALPHACAM SAVES HUNDREDS OF PROGRAMMING HOURS FOR ENGINEERED WOOD SPECIALISTS

A COMPANY specialising in complex components for products, such as skate parks and aircraft flight simulators, has saved hundreds of hours of programming time with a bespoke macro written for its Alphacam software.

Cambian Engineering Solutions focuses on using wood in the engineering world, where it's less prevalent than metal. Working mainly within the architectural and engineering sectors, the company provides a complete solution with engineered wood.

'We take the technology from the engineering sector and use that within both the architectural and engineering worlds, but predominantly with wood instead of traditional metal, or composites,' says managing director, Piers Chapman.

A recent example of bringing wood into an engineering application involved the cockpit for a training flight simulator.

This was a high-fidelity system to be mounted on a full-motion frame and internally was indistinguishable from a real aircraft cockpit.

'For this project we replaced a composite, which had two distinct benefits: the product is more sustainable and it's considerably more accurate,' says Mr Chapman.

'A sizeable part of the company's business within the architectural sector is providing products for extreme and action sports facilities, such as climbing walls and skate parks.

'We frequently create extremely complicated free-form wooden structures on a large scale and these are all designed and manufactured in-house,' says Mr Chapman.

He says their skate park assemblies comprise tens of thousands of individual, unique components, all modelled, machined, pre-assembled and shipped out in hundreds of separate modular elements.

'It's critical that all our products are precision machined, whether it's something like the cockpit where we need to achieve tight tolerances on a small scale, or in the architectural world where we're assembling off-site and the cumulative stack-up of any error, multiplied by extensive modular elements, becomes considerable,' says Mr Chapman.

He also points out there are quite large tolerances within the engineered wood panels themselves, which is dealt with through their extensive design for manufacture experience.

Alphacam is a vital bridge between their NX CAD software and the woodWOP CAM software, which runs a Weeke Vantage 200 4.5-axis router and nester from the Homag Group.

'Many woodworking companies work with just 2D data, but we do a lot of work via the 3D world, so Alphacam is the perfect tool for us,' says Mr Chapman.

The company, operating with seven full-time employees from a 7,000ft<sup>2</sup> workshop in West Sussex, uses Alphacam to program two fundamentally separate types of part – firstly, planar components, which are nested and secondly, those which need to be 3D machined.

'The planar components are typically 2.5D imported as solid models and then we use Alphacam to extract the features.

'Where possible we move on to programming in a semi-automatic way using Machining Styles. For the more complex solid models we use 3D machining strategies working with the solid model or surface geometry directly.'

'Alphacam is the conduit between our 3D design environment

and the physical embodiment of the parts we're manufacturing. Nothing could get made without it,' says Mr Chapman.

However, the unusual 4.5-axis head on their machine tool meant that programming was not straightforward and Alphacam's area sales manager, Andrew Harfield created a complex macro, which has saved Cambian hundreds of hours of programming time.

'The macro interrogates the solid model geometry and passes the attributes associated with that on to the woodWOP post processor via TPD values.

'It improves our programming efficiency by automating the process and we now use it extensively. It's become essential to the way we work nowadays,' says Mr Chapman.

He says that the graphical programming solution supplied with their CNC machine was not capable of dealing with the complexity of the parts they manufacture.

'We already knew that Alphacam was the industry standard software, so it was the obvious choice of software to translate our solid model information into machine code.

Despite this we're constantly providing feed-back to Alphacam through their support team, much of which is incorporated into their twice-yearly updates. We continue to work closely with Andrew Harfield, whose in-depth knowledge of our requirements and what Alphacam is capable of, means that more time saving macros are planned,' says Mr Chapman.

He forecasts exciting times ahead for Cambian, which was formed as a result of his background in mechanical engineering and enjoyment of different action sports, including climbing and riding BMX bikes.

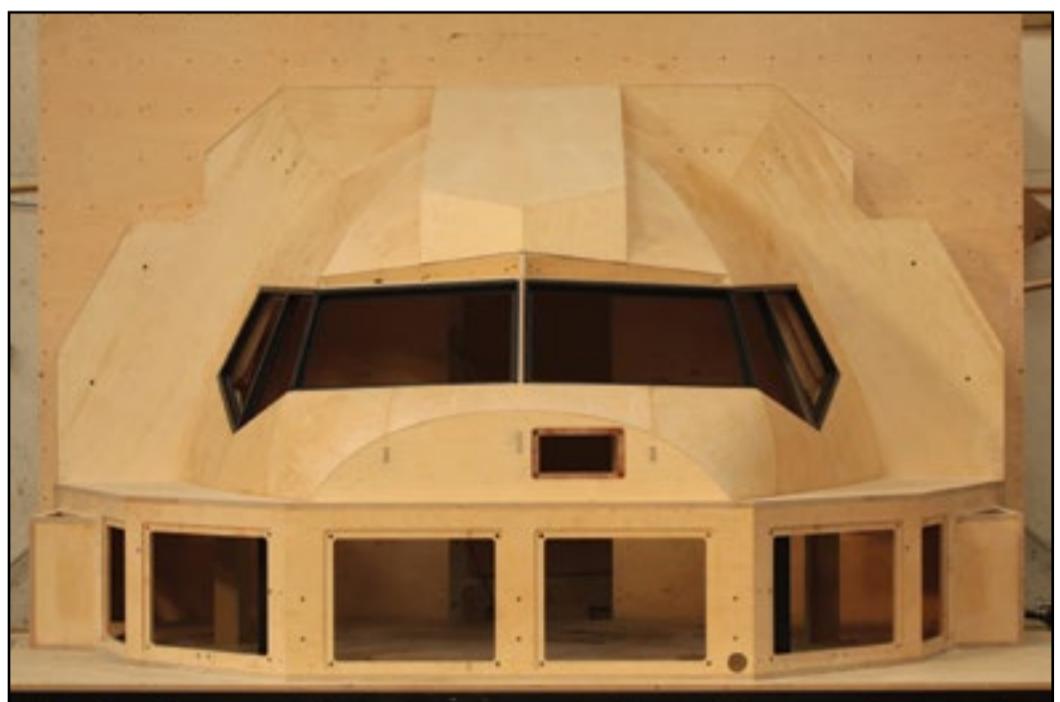
'That's what led us to start working on skate parks and bouldering walls. It was always my ambition to combine my love of engineering and extreme sports and we're now doing an interesting hybrid of work

within both the architectural and engineering worlds.

'In order to deliver on these projects, we are constantly advancing our manufacturing facilities, which means new machine tools are very much part of our plans.'

'I don't know of any other company pushing the boundaries in the way we are at the moment,' says Mr Chapman.

*For further information tel Alphacam on 01189 756084. Visit [www.HexagonMI.com](http://www.HexagonMI.com)*



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