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SEPTEMBER 2020

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ROBUST ABRASIVE



MIRKA UK is introducing impressive Iridium in packs of 10 in 150mm discs, 81 x 133mm strips and 100 x 152 x 152mm triangles, providing outstanding performance on a wide range of applications, including soft and hardwoods, especially solid surface materials.

The robust abrasive employs a new precision, dust repellent coating that has an optimised grit configuration, blended to maximise productivity, as the grains stay sharper for longer, extending the life of the disc, whilst ensuring high stock removal is achieved.

Its new multi-hole design delivers superior, faster and more efficient dust extraction fitted to any machine, avoiding clogging and



For further information tel Mirka on 01908 866100. Visit www.mirka.com

pillling, whilst maintaining a high-quality finish.

In addition, its blend of ceramic grains allows the cut to be more aggressive and longer lasting, while producing a consistent scratch pattern for the life-time of the abrasive.

Iridium's combination of coarse and fine grits allows the abrasive to work well on both soft and hard surfaces, while its flexible backing also offers excellent grain adhesion and no loss of the grains, even when folded.

'Mirka Iridium represents another leap forward for innovation in abrasive technology. It is an abrasive that fills the requirements of today's customers, a high-performance product that allows them to complete a job in the fastest possible time and deliver higher productivity levels,' says business sector manager, Chris Brook.

'This is accomplished with Iridium, but importantly, without any compromise to its finish.

'Mirka's Iridium is excellent for solid surface materials and MDF, as well as a variety of soft and hardwoods,' adds Mr Brook.

FOR MORE ON ABRASIVES PLEASE TURN TO PAGE 4

NEW ACQUISITION

CABINET hardware expert, Titus Group has recently acquired SIMON Group's Kinetics division for furniture fittings.

'SIMON Kinetics' has had a long reputation with Titus Group. We are delighted that the acquisition of SIMON Kinetics' expertise and solutions in damping technology, soft closing systems and push-to-open mechanisms expands Titus' competence and strengthens our ability to resolve challenges in opening and closing in various applications to the benefit of our existing and new customers,' explains owner and executive chairman of Titus Group, Robert Appleby.

For the full story please turn to Page 4 of this issue.



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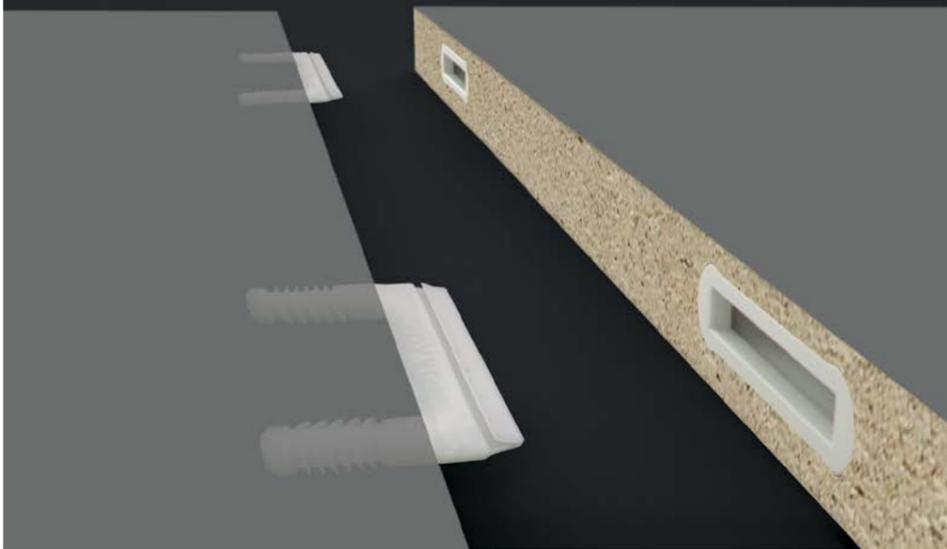
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WOODWORKING MACHINERY

Introducing the **NEW** ATACAM CNC Routers

This new range of affordable CNC Routers from ATA Engineering offers the same high quality build that you come to expect from a company that has been supplying CNC's for over 20 years, along with support and technical back up.

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(Special sizes available on request)

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3 and 4 Axis machines in stock.

Call us today to arrange a Demonstration!



Castle Pocket Routers from ATA Engineering

New Improved Model TSM22 Pocket Router

Model TSM22, the most popular Pocket Router in the Castle range has been re-designed with a new lift up table top to provide the following features:

- Easier and quicker access when replacing the router cutter, drill and other parts during routine servicing and repair.
- Additional safety feature which automatically disconnects the electrical supply to the Bosch motors.

This long established and widely used model continues to provide the quickest and strongest method for kitchen and bedroom carcass manufacture, retail display stands and other interior fitting applications.

Call us today to arrange a demonstration.



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WOOD WASTE CONTROL PROVIDES PERFECT EXTRACTION SOLUTION

CAMBRIDGE-based Coulson Building Group has built a strong reputation for high-class joinery stretching back for over 125 years.

The service, provided from one of the most modern and well-equipped joinery departments in the East of England, is available for highly-specialised individual projects, or as a complementary skill to its Building and Services departments.

In order to ensure that it maintains the highest environmental standards Coulson has now invested almost £40,000 in a new dust and wood waste extraction system, which was designed, manufactured and installed by Wood Waste Control (Engineering) Ltd.

According to Coulson's joinery manager, Jon Nix, business has been going extremely well.

'Our customers range from private individuals ordering, say, just a door, to £1m orders for commercial furniture and fittings from contractors and builders,' says Jon.

'We also carry out large public works, including on cathedrals and colleges. Our work is mostly in Cambridge, but also extends across East Anglia and sometimes to London,' he adds.

The large joinery unit employs around 15 people and contains extensive milling facilities, CNC four-axis machine, saws, planing and spindle moulders working with a wide range of selected hard and softwoods.

'Our extraction system was nearing the end of its life and we looked at a number of suppliers and chose Wood Waste Control as the best option,' explains Jon.

Wood Waste Control specified its WFS-13 2J silo filter, mounted on a frame outside the joinery workshop. All-new ducting connects machines to the filter and the collected waste is then discharged through a rotary valve unit and dropped pressure-free directly into a skip container.

'This is a powerful and popular extraction solution with many configuration options and some customers choose extraction to storage silos, closed containers, or briquetting presses,' says managing director of Wood Waste Control, Reg Gareppo.

'This modern new system is much stronger and more robust than its predecessor and meets all modern environmental standards. The installation went without problems and the new system is performing well, doing everything we want it to do,' says Jon Nox.

Wood Waste Control is one of the UK's leading dust extraction and heating equipment specialists for the woodworking industry. The company has hundreds of successful waste extraction, processing and heating equipment installations across the UK, in Europe, Russia and Africa.

The family company manufactures its wide range of filters in the UK and supplies shredders, briquette presses, biomass heaters/boilers, plus quick-assemble and spiral ductwork to enable it to offer solutions from simple stand-alone bagging units through to complex integrated systems.

Woodwaste Control (Engineering) Ltd is one of the most highly regarded specialist woodwaste manufacturing companies in the UK.



For further information tel Wood Waste Control on 01628 525290.
Visit www.woodwastecontrol.co.uk

MAKING IT WITH MAKITA

MAKITA UK has launched a new, lightweight folding mitre saw stand, making it easier than ever to quickly and accurately complete a range of cuttings tasks.

The portable WST07 mitre saw stand has been designed with ease of use and operator productivity in mind. Unlike previous models, the WST07 includes tool-less adjustable mitre saw bracket levers, so operators can effortlessly install, adjust and remove the saw from the stand. The sliding rail design also makes it easy to position the mitre saw at the desired angle.

With a maximum extension length of 3,830mm and adjustable extension arms (both left and right), the WST07 can be easily altered for each individual task and can support up to 225kg in weight for cutting efficiency.

The WST07 also includes an adjustable levelling foot, to prevent the saw stand from wobbling when working on uneven floor surfaces.

The WST07 is easy to manoeuvre around site and transport between jobs. Weighing just 18kg, the inclusion of castors

allows operators to effortlessly move the saw stand, even when a mitre saw is mounted.

The stand has also been designed for ease of transportation between jobs with two convenient single-handed carry handles (one pre-fixed) for maximum carrying comfort.

The WST07's compact design (it has a minimum length of just 1,765mm) and folding legs mean that it can be easily loaded on to the bed of a standard 1,800mm wide pick-up truck.

For increased flexibility, the WST07 is compatible with a wide range of Makita's extensive selection of power tool products, including slide compound saws, mitre saws, cordless

slide compound saws and cordless mitre saws.

'We are delighted to add the WST07 mitre saw to our ever-growing accessory portfolio. This fantastic stand provides workers with a valuable tool for easier material cutting. The light weight and compact design of the WST07 means that users can quickly put up and take down the saw stand with minimum disruption – even with the tool still mounted,' says marketing manager at Makita, Kevin Brannigan.

For further information tel Makita 01908 211 678.
Visit www.makitauk.com.

NEWLY ELECTED ACIMALL PRESIDENT

THE general assembly of Acimall, the association of Italian manufacturers of furniture and wood technology, approved the appointment of Luigi De Vito (SCM Group, Rimini) as president for the 2020-2023 period.

The assembly met in July and accepted the nominations of the managing board and approved the financial statement of one of the most difficult years for Acimall and the entire world economy.

Luigi De Vito has developed solid managing experience abroad, dealing with European loans for startups, and then at Unilever. Since 2008, he has been working in the wood technology industry, covering roles with increasing responsibilities.

De Vito took the opportunity to greet many business owners attending the video conference. First of all he thanked the outgoing president, Lorenzo Primultini, "... who has been able to guide the association through one of the most difficult times in history, while keeping a focus on the values that a business association must preserve".

The new Acimall president then introduced vice president, Marianna Daschini, stressing the value of a young female manager in a high-profile role.

Then, he mentioned the key topics of his term: promoting open dialog among the member companies

and with other associations; focusing resources on strategic projects (credit access, business development, supply chain initiatives); supporting and developing the brands of member companies, "...creating a favourable environment to exchange excellent models of market strategy, sales and technology trends."

For further information visit www.acimall.com



From left to right: Lorenzo Primultini, Marianna Daschini and Luigi de Vito



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OUTSTANDING SERVICE BY UK ABRASIVE SUPPLIER AND MANUFACTURER

BIBIELLE UK Ltd has been established for over 20 years manufacturing and supplying abrasive products to a range of industries, including the furniture, joinery and panel production sectors.



As the UK distributor for Bibielle Spa, Nastroflex and ProGrind, the Leicester-based firm has a wide-ranging product portfolio in addition to its own UK-based manufacturing capabilities.

A family-owned business, Bibielle UK is an experienced supplier of a comprehensive range of abrasive products for surface preparation, blending and finishing.

From narrow and wide-belts, discs, blocks, non-wovens, sheets and triangles – and a custom-made belt scenario – Bibielle UK has all the key bases covered and can supply from stock within 24hrs.

Importantly, Bibielle UK can also manufacture belts to order from two-four days with the company responding to quotes within the hour!

Based in Wigston, Leicester, the family-run business is ideally located and can readily cover the heart of the UK.

It also boasts an efficient and streamlined distribution model for next day postal deliveries – for orders made before 4pm, or 3pm Fridays, Bibielle UK will dispatch goods the same day.

Using its distribution network, Bibielle UK also provides a full on-site service to help reduce process times for customers by increasing productivity.

Being itself a family business, the company is also acutely aware of the current situation regarding the Covid-19 virus situation.

‘I’m sure you don’t need me to tell you of the current difficult situation our country is currently facing.

‘However, as a family-owned independent business and being able to react to difficult economic times, I think it is important to spread news that not all is bad and that we are ensuring we continue to support and supply the UK like we have done for the past 20 years,’ says UK sales director, Tom Wright.

‘With this in mind, we have significantly invested financially in raw material and finish stock of our abrasive products. This has taken our normal 3-4 month stock-holding to around 6-7 months.

‘This, in turn, will ensure that your own business can continue to run like normal despite the current problems we are all facing,’ says Tom.

‘Our passion has always been about providing a great service along with a great performing product. However, this has no meaning if the health of the Bibielle team is suffering.

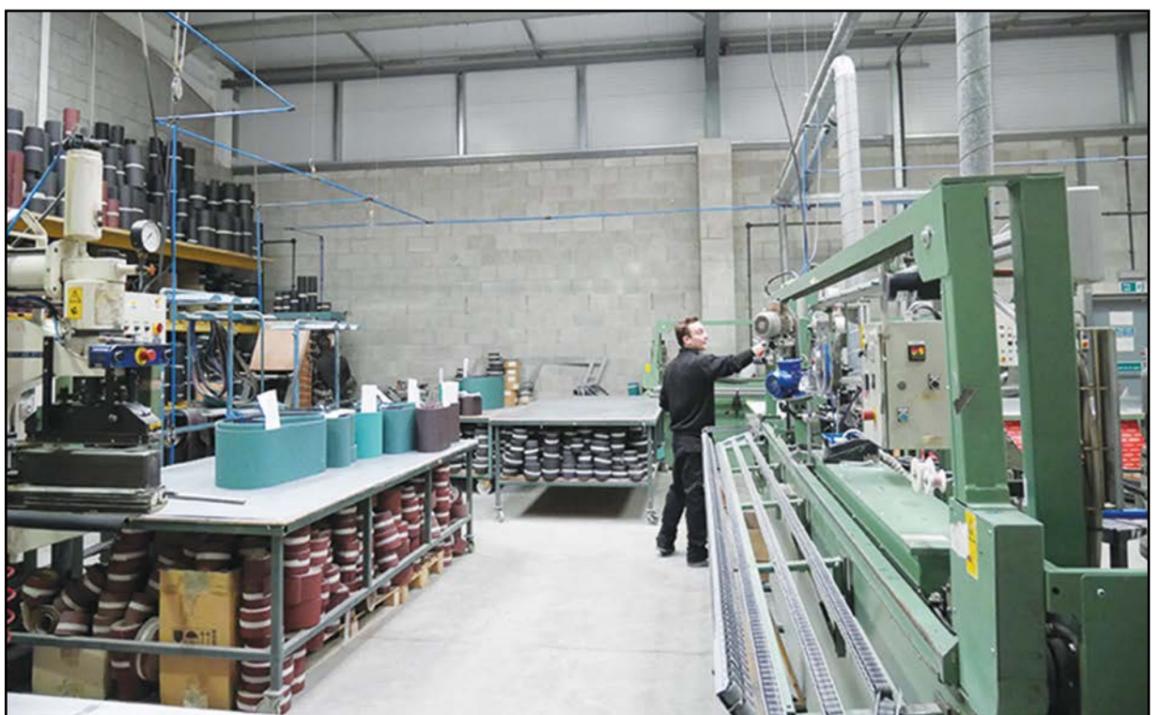
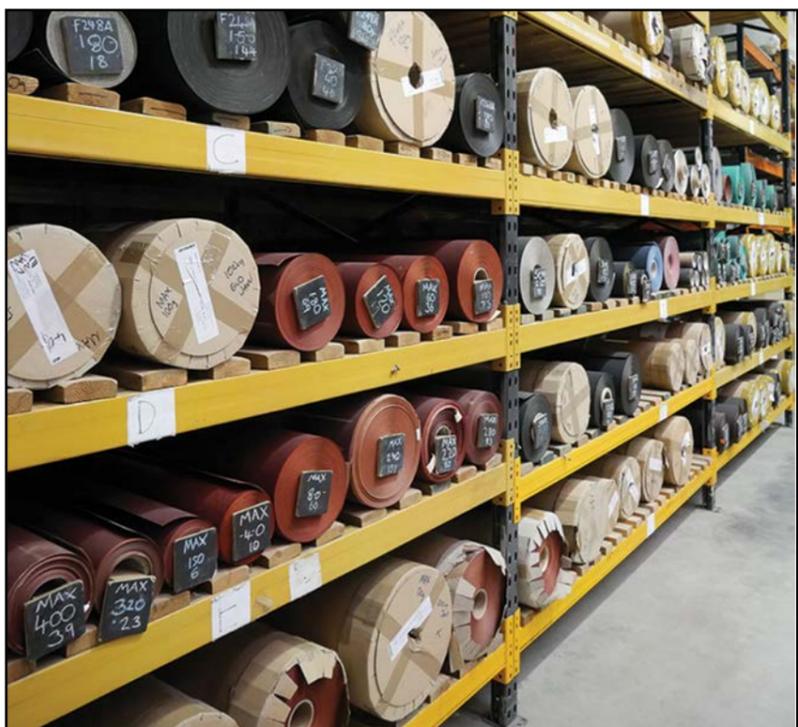
‘We have also implemented extensive bacteria-fighting agents throughout the company and are doing regular checks on staff to ensure this is being carried out.

‘I will leave you with a final message that should you have problems with stock, please get in touch and we will try our utmost to help. This is a difficult time for us all, let alone the additional pressures of trying to keep your business running and customers happy.

‘I sincerely hope that with the plans we have carried out, we can be a valued supplier to your operation not only today, but in the very distant future,’ concludes TOM.



For further information tel Bibielle on 0116 258 1900.
Visit www.bibielle.co.uk



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PALAMATIC PROVIDES A LIFT FOR PANEL PROCESSORS



PALAMATIC is a leading supplier of vacuum tube lifting systems to the woodworking industry. With 35 years' experience, thousands of its solutions are in use on a daily basis.

Now with recent changes in the construction industry, Palamatic's range has been developed to offer solutions to keep up with the demand.

As a proven Health & Safety solution, a Palamatic vacuum tube lifter offers increased operator safety and performance, allowing efficient use of labour and reduced injuries and claims.

The company's systems are robust and built to last and to endure the requirements of the woodworking industry. Applications regularly provided by Palamatic include loading and unloading for vertical panel saws, beam saws, dimension saws, flat-bed CNC stations, edge-banders, laminators, paint lines and tilt tables.

The most common wood materials handled by Palamatic lifting systems include Trespa jumbo boards, Spandrel panels, MDF, MFC, chipboard, wood, plywood, Sterling board, plasterboard and polycarbonate – with weights up to 350kg being picked up.

Wood products handled include fire doors, panel doors, furniture, staircase, planks, timber sections, laminate surfaces and cabinets.

Palamatic is also often asked to rotate boards through 90 deg or 180 deg for loading saws and gripping boards, which its systems can handle with ease.

'Our philosophy is to provide equipment for the purpose, so all applications are looked at by our engineers to design the correct solution,' says Palamatic's customer relations and marketing manager, Matt Bennison.

'The gantry that the lifting systems are suspended on are critical to offering an ergonomic solution that works for the operator. We can provide H-style gantry systems to cover large areas, but our smaller swing jibs and low head room centre posts can fit into areas where space is an issue and work perfectly well,' adds Mr Bennison.

'With our 22,000ft² factory based in Chesterfield in Derbyshire, we are well placed to visit customer sites and for our customers to send us samples to test prior to us manufacturing their vacuum tube lifter. We have a skilled field engineering team to install the system and come in to train individual operators,' says Mr Bennison.

'We recommend our service contracts with each system, as we find that the woodworking industry uses its systems daily and, therefore, the upkeep of them is vital in terms of production,' concludes Mr Bennison.

For further information tel Palamatic on 01246 452054.
Visit www.palamatic.com

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TITUS ACQUIRES SIMON GROUP KINETICS DIVISION

CABINET hardware expert, Titus Group has recently acquired SIMON Group's Kinetics division for furniture fittings.

With the SIMON Kinetics acquisition, Titus has gained a stronger technical competence and a wider range of solutions in damping, soft closing systems, push-to-open mechanisms and cabinet accessories for applications in furniture, white goods, bathroom equipment, automotive and caravanning.

SIMON Kinetics' product portfolio will further pave the way and strengthen Titus' offer with unique solutions in soft closing and push systems in the caravan sector.

'SIMON Kinetics has had a long relationship with Titus Group and we are delighted that the acquisition of SIMON Kinetics' expertise and solutions in damping technology,

soft closing systems and push-to-open mechanisms expands Titus' competence and strengthens our ability to resolve challenges in opening and closing in various

applications to the benefit of our existing and new customers in Europe, US, Asia and Australia,' explains owner and

executive chairman of Titus Group, Robert Appleby.

The merger of SIMON Kinetics' expertise with Titus' structure provides an opportunity for a wider reach and global support to customers, as well as new product

innovations from a merged offering in soft closing and push-to-open systems for applications in wide range of industries.

Titus Group recognised the potential of the SIMON Kinetics' expertise for supporting its long-term business growth. With its market position, knowledge in precision component engineering and a

global foot-print, Titus can further develop SIMON Group's furniture fittings sector faster and more successfully than the previous structures would allow.

For further information tel Titus on 01977 682 582.
Visit www.titusplus.com



HAFELE LAUNCHES A DEDICATED NEW SUPPORT PROGRAMME FOR FURNITURE MANUFACTURERS

HAFELE UK has launched a new dedicated package of industry leading support for furniture manufacturers, in response to feed-back from customers who shared their industry concerns as a result of Covid-19.

Available to existing and new customers, the Häfele Here to Help programme is designed to help furniture joiners and manufacturers increase sales and enquiries, as well as deliver projects on time and on budget despite the financial, operational and logistical challenges presented by the pandemic.

To help Häfele customers who may require extra support to plan future projects with confidence, the package includes a price freeze on all products for the rest of 2020. It also includes a 50 per cent reduction to the order value to qualify for free delivery, dropping it from £100 to £50 until the end of September, with next day delivery available on orders by 3pm.

Additionally, Häfele has brought together a number of its existing added value services to make the design, specification and ordering process as easy as possible for furniture joiners

and manufacturers. Its Technical Team are also on hand to offer advice on choosing the most suitable solutions from Häfele's vast range of products to meet the requirements of any project or budget.

The free-of-charge Lighting Design Service allows customers to see different options on how integrated LED lighting can transform furniture, units and other products. On top of this, customers can also take advantage of Häfele to Order, a bespoke manufacturing and packing service that allows customers to order products to their exact size and quantity, saving time on projects.

Lighting through the HtoO service can even be cut, assembled, tested, packed and labelled, so customers never have to worry about having everything they require to create the wow factor.

Natalie Davenport, Head of Marketing at Häfele UK, said: "We know it's a challenging time for many of our customers who are having to navigate new ways of working with social

distancing, health and safety rules, and in some cases fewer team members to support with the day-to-day work.

"We've spent the last few months speaking to our customers to see how we can support them, all while making changes to our own business to enable us to work effectively and safely, so that we're here to support our customers getting back to a new normal. Whether furniture joiners and manufacturers are looking for technical, specification or design support, we're here as an extension of their team and can provide all of this and more.

"Ultimately our aim with Häfele Here to Help is to support our customers to secure projects and continue to grow their businesses. Whether we can help them refine their plans so that they meet their customers' changing budgets, or find ways to improve the overall design and aesthetic of the project to maximise customer satisfaction, we're here to help."

For more information about Häfele Here to Help, visit: www.hafele.co.uk/en/info/services/hafele-here-to-help



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ELECTRO-TECH MACHINERY TEAMS UP WITH MARTIN TO SERVE THE IRISH MARKET

ELECTRO-TECH Machinery was established by Derek Reid in 1996. Based in Moneymore, Northern Ireland, at purpose-built premises are the managerial offices, workshop and showroom.

Located in the heart of Northern Ireland, Electro-Tech Machinery is accessible to all.

The company specialises in the sale of woodworking machines, both new and second hand.

Alongside this, the spare parts and servicing department provides customer care to the industrial sector.

Electro-Tech Machinery offers a range of new machinery from top brands, such as Martin. Sales are supported by an extremely experienced and skilled team of engineering staff.

From the installation and maintenance of Computer Numerical Control (CNC) machines at the forefront of modern technology and the refurbishment of older second hand classical machines, Electro-Tech's support team is renowned for the pride that its members take in their work and their comprehensive ability with a wide range of woodworking machinery.

Electro-Tech Machinery are Martin agents in Ireland. New machinery also provided by Electro-Tech Machinery includes Holytek, Martin and others.

'Here at Electro-Tech we also provide the sale of second hand machinery,' says managing director, Derek Reid.

This includes machinery by Altendorf Biesse, Homag, Masterwood, Martin Robland, and used Homag machines.

'If you don't see the machine you require just ask, as we receive machines on a regular basis,' adds Mr Reid.

Among the constantly changing stock is a comprehensive offering of Martin machinery, which includes milling machines, planers and planer/thicknessers, sliding table panel saws, spindle moulders, surface planers and thicknessers.

Two models from the Martin range which have long proved to be particularly popular on the Irish market are the Martin T45 planer/thicknesser and the Martin T54 surface planer.

The T45 planer/thicknesser is ideally suited for modern production methods, as it supplies cleanly planed wooden surfaces.

It is quick and easy to operate and for those companies which are on a limited budget, it offers excellent value for money.

Irrespective of whether short or long work pieces are being planed, the sturdy thicknessing table extension can dispense with the need for a second person located behind the machine.

Short workpieces do not fall on to the floor and longer ones are supported at the out-feed side.

The table extension always moves synchronously with the thicknessing table and this accessory can be retro-fitted without any problems.

It is possible to choose between the long 1,200mm version, or the short, foldable 450mm version. The latter can also be mounted on the infeed side.

The work piece transportation of problematical materials and short work pieces can be improved by means of a second rubber outfeed roller – especially if no lubricant can be used. The second outfeed roller is also available as a steel roller.

The operator can switch between the standard feed speeds of 6m/min and 12m/min during the planing operation.

Another distinct advantage is that the feed speed can be adjusted by means of the optional, infinitely variable feed control. This option allows variable feed speeds between 2m/min and 25m/min – depending on the individual design.

The Martin T54 surface planer was initially developed primarily to accomplish two separate tasks – firstly to dress work pieces perfectly and, secondly, to provide these work pieces with superlative angular edges quickly and safely.

Martin's T54 surface planer features an easy-running guided surfacing fence with an integrated auxiliary fence, which enables quick and precise operation.



Martin's T54 surface planer features an easy-running guided surfacing fence with an integrated auxiliary fence, which enables quick and precise operation.

Martin's T45 planer/thicknesser is impressively silent in operation.

ELECTRO-TECH MACHINERY
woodwork machines & accessories

The ball-bearing guided jointing fence runs smoothly and without tilting on tempered raceways. In years to come, it will work as precisely as it does on the very first day following its acquisition.

Chamfers can be planed in no time at all, owing to the fact that any angle between 90 deg and 45 deg can be set quickly by means of the extremely user-friendly single-handed operation.

For further information tel Martin on 00 49 8332 9110. Visit www.martin.info
For further information on Electro-Tech Machinery tel 028 8674 8863.
Visit www.electrotechmachinery.com

QWOOD PROFILES FOR DOORS

YOU may have heard all the great reasons to use Qwood timber composite profiles with timber windows.

Their unique profiles have all the benefits of traditional timber profiles, but with none of the drawbacks.

Qwood is perfectly straight every time, with no knots, or imperfections to worry about when cutting to size.

The profiles are resistant to moisture absorption and will not rot like traditional timber, meaning that Qwood has a long life with minimal maintenance necessary. They can also be cut and drilled using all traditional timber tools.

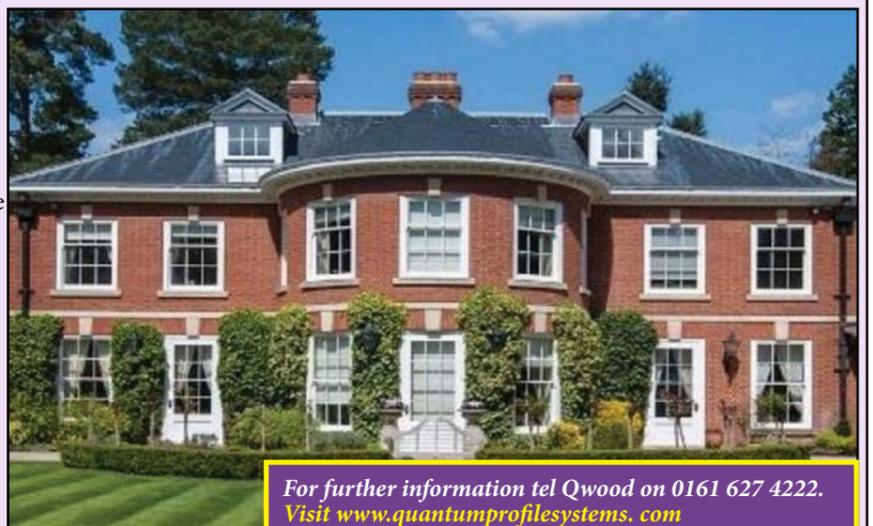
Qwood is recognised for its window profiles, but did you know that the company also manufactures

Qwood profiles for doors? The company creates all the profiles you could need for doors, including weather bars, glazing beads and bolection moulds.

In addition, the new Qwood rain deflector profiles, which do not require end caps and are a cost-effective alternative to traditional aluminium deflectors.

All Qwood door profiles are available in stock lengths to suit any requirements and can be fitted to traditional timber, plastic, or composite doors, making them perfect for any job.

They can be painted either before or after installation to match the finish of any door but, best of all, they have all the benefits of Qwood window profiles, ensuring that all of the door profiles will be easy to cut, simple to fit and straight every time, with no imperfections.



For further information tel Qwood on 0161 627 4222.
Visit www.quantumprofilesystems.com

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YOU'VE GOT THE POWER WITH MAKITA'S TOOL RANGE

THE XGT 40V Max is the new stand-alone cordless battery platform from Makita – with its own range of tools, lithium-ion batteries and chargers.

It will stand side-by-side with Makita's industry-leading LXT platform to offer a battery solution for all applications. XGT has been built around three concepts.

With 40V Max power, XGT is the most powerful battery platform in the Makita range. The increased output is ideal for industrial, higher demand applications.

In fact, XGT, cordless machines offer output that can genuinely rival the high power of corded tools and even some petrol engine machines.

The XGT range benefits from a completely new design - across the machines, the batteries and charging system. Instead of going for a higher voltage battery, the Makita research and development team has developed a system with improved construction and advanced technologies to achieve optimum power and performance.

When going for a higher voltage battery there is a trade-off between power and run-time. However, XGT delivers balanced run-time delivered from the new 40V Max motor and battery platform, with all the power that is required for heavier duty applications.

The new XGT batteries have been engineered with durable design features to minimise damage and withstand tough environments. The heavy duty outer casing and cell holder and shock absorbing housing protect the battery if dropped.

Each battery also has an IPX4 rating, which means that it is splash and shower proof and water ingress is limited –



ideal for those working outside in unpredictable weather conditions.

XGT batteries also include high rigidity rails, that firmly hold the battery to the tool – making them suitable for use with high power products and heavy duty applications.

In order to optimise battery performance and charge times, XGT features Makita's unique smart system technology. This in-built programme allows digital communication between the battery and the charger, as well as the battery and the tool, to provide protection against issues such as over discharge and overheating.

If the battery has overheated, the charger will cool it down before charging begins. This significantly speeds up the charging process and minimises downtime.

'This is an exciting time for existing Makita users and new users alike,' says marketing manager at Makita, Kevin Brannigan.

'Makita's new XGT platform is the next generation in cordless technology, leading the way in both performance and intelligence.

'With XGT, you can experience the same high power associated with corded and petrol machines, but with the increased flexibility of cordless – making XGT the ideal solution for high demand, industrial applications,' he adds.

'The complete solution of our existing LXT 18V system and the new XGT 40V platform offers even more battery-powered solutions for a truly cordless job site,' says Mr Brannigan.

Makita has launched a number of new products for the 40V XGT platform, each suited to high demand applications – including cutting, grinding, drilling and fixing.

In order to maximise on-site efficiency, the tools are designed to offer outstanding performance, ease of use and operator safety. The new 40V XGT line-up includes:

- TD001G impact driver -

delivering 220Nm of max torque and 10 tightening modes.

- HP001G combi-hammer drill - providing 140Nm of max torque and 41 electrical clutch settings.
- GA004G, GA005G, GA012G and GA013G angle grinders - offering the same power as 1,100W corded grinders.
- HR003G and HR004G SDS-Plus combination hammers – which include anti-vibration technology and benefit from a HEPA filter dust collection system.
- HS004G circular saw - with a no. load speed of 6,000RPM, 480 bevel capacity and AWS wireless connection facility for use with compatible dust extractors.
- JR001G reciprocating saw – achieving 255mm capacity in wood.
- All models are available as body only machines, or complete models with battery, charger and ADP10 adaptor for charging LXT 18V batteries via the XGT 40V charger.

In order to improve durability, the new XGT tools also benefit from Makita's brushless motor. As there are no moving parts within the motor causing friction, wear and tear and ongoing maintenance costs are minimised.

No friction also means that no energy is lost through heat production, which increases run times and keeps you working for longer - as you do not have to regularly stop to replace or recharge the batteries.

Supporting the new product range, Makita has also launched a selection of accessories. The 40V batteries can be purchased individually and are available in 2.5Ah and 4.0Ah versions.

In order to minimise operator fatigue – and maximise on-site productivity – the batteries are light weight. For example, the 2.5Ah XGT batteries weigh just 100g more than 18V LXT alternatives.

To charge the batteries, Makita has launched the DC40RA 40V Max fast charger. Due to the smart system, the DC40RA offers optimised charging. For example, a 2.5Ah XGT battery can be charged in just 28 minutes and a 4.0Ah battery in 45 minutes.

For those that are currently using Makita's LXT products, Makita has developed an adaptor that allows you to charge your LXT batteries using the XGT charger. This makes changing between tools effortless.

With the adaptor, LXT batteries charge in just 22 minutes (for 3.0Ah LXT batteries) up to 40 minutes (for 6.0Ah LXT batteries).

To launch the new XGT range, Makita UK will also be offering a new redemption deal on selected models, so contractors can claim an extra 40V battery completely FREE of charge!

For further information tel Makita on 01908 211678. Visit www.makitauk.com

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CELEBRATING 30 YEARS SERVING BRITISH TRADESPEOPLE

RECOGNISED around the world, Fein was first set up 150 years ago and has since grown into a world leader in the industry, providing only the very best and most outstanding power tools and accessories.

The family owned business was first founded by Wilhelm Emil Fein in 1876. Based in Germany, the company steadily grew and grew until 1895, when Wilhelm's son invented the world's very first electric hand drill.

The motor powered drill was a world first and cemented Fein's reputation as a pioneer in engineering.

Since then, the company has gone from local innovators to worldwide champions of engineering innovation.

With over 50 offices around the world, including in the UK, USA and France, Fein offers solutions for metal, interior, automotive and other industries.

The UK branch was first set up over 30 years ago, with Fein knowledgeable of and prouder than ever to serve the UK power tools market.

'Here at Fein, we've always been about innovation and we are committed to providing the best, most powerful, durable and outstanding tools possible,' says marketing manager, Dan Wood.

'We always strive to offer something unique, providing solutions for the end user that are reliable, cost-effective and easy to use.

'As specialist manufacturers, we are proud to say that we are leading the market in powerful multi-tools which satisfy a number of purposes,' adds Dan.

Fein can offer a tool for almost any industrial application, including everything from drills to fasteners, grinders, saws and cutters, sheet metal and surface processing solutions and the company's highly regarded oscillating multi-tools.

One of its most recent innovations was the Starlock mounting system for oscillating, which was launched in 2016.

The Starlock mounting system is the result of a joint development between Fein and Bosch. It is claimed to be the world's leading mounting system for all oscillators.

The technology renders a range of different oscillators capable of delivering various applications using accessories for accurately and efficiently sawing, sanding, cutting, filing, scraping off material, cleaning, polishing, to power cutting, helping end-users cut down on time, labour and costs.

The patented mounting system boasts high power and low vibration and, due to its unique star shaped grip, it allows for multiple places with which to grip the accessory.

Not just that, but the recessed, three-dimensional mount has been shown time and time again to enable a staggering 45 per cent increase in work speed.

As a company Fein goes to every possible length to ensure that they only launch the most powerful, precise and long lasting

products possible, with many owners finding the machines outlast and survive nearly all other alternatives in the market.

This is precisely why most owners of Fein power tools are willing to pay more for the equipment.

Such is that continued commitment to quality by Fein that product developers have been known to test drills to deliver up to one million screws to ensure that they are "defect-free" before allowing the product to hit the market.

Now, Fein is shifting the company's focus to providing yet more cordless applications. A marvel of invention, Fein produced what was claimed to be the world's most versatile cordless magnetic core drill, which is the newest addition to the company's range of 16 drills.

Compact, powerful and highly flexible, Fein's cordless drills operate on a battery system and are the first in a new line of cordless devices.

This year, Fein has also unveiled a range of cordless grinders, hammer drills and much more.

'There is plenty in the pipeline that we're excited about, including the new cordless angle and die grinders, polishers, multi-tools, mag drills, and much more,' explains Dan.

'There was high demand across multiple industries for labourers to get their hands on our wide range of products, but on one system and, as such, we've invested time in being able to offer a wider range of tools on one improved battery system.

'We have witnessed a great response from the Fein community who have traded in corded models, for the new and improved cordless versions of the SuperCut and MultiMaster. Now we are witnessing demonstration requests nationwide for the cordless drills, mag drills and grinders,' concludes Dan.

'It's an exciting time for our community who can now expect the same power they would find in corded Fein machines,' says Fein's new managing director, Raphael Rudolph.

'We at Fein UK will now be working hard to approach more British end-users than ever before.

'We will continue to hire more local British workers. We will also continue to improve and invest in our facilities to ensure our service is as great as it can be for all of our customers,' says Raphael Rudolph.

'For over 30 years Fein has served and been committed to serving British end-users, providing its 150 years of power tool experience to enable tradespeople and metal specialists.

'We are committed to offering that legacy to future generations in Britain, for another 30 years, and many more thereafter,' concludes Raphael Rudolph.

For further information tel Fein on 01327 308730. Visit www.fein.com/en_uk



COMBINING EASE OF USE WITH VERSATILITY

CABINET hardware expert, TITUS has launched its versatile new-generation T-type hinges that reliably deliver the soft closing action preferred by end users.

The new hinges require only a shallow hinge cup, which makes them suitable for use with door thicknesses ranging from 15mm to 26 mm and they have passed FIRA tests for BS 6222-2-2009, Test Level H.

The T-type hinges feature the renowned Titus "Confident Close", the consumer-preferred reliable and consistent soft-close damping characterised by late-start deceleration and quiet landing in the last stage of closing, as the door leans against the cabinet side.

The proprietary Titus multi-purpose integrated damping technology is positioned transversal in the hinge cup, ensuring life-long damping with no bounce-back and superior performance.

In addition, the hinges are exceptionally tolerant of misalignment and drilling variations. Their unique three-way tool-less snap-on mounting plate, which offers intuitive hinge-to-plate mounting in three directions, greatly simplifies door installation, especially with tall doors that need four or even five



hinges. The unique design of the mounting plate reinforces stability and rigidity while maintaining smooth hinge operation.

The hinges feature the renowned "Titus Damper Inside" technology, which ensures reliable and consistent life-long damping without re-bounce. The dampers are single-direction hydraulic types that are fully sealed to eliminate the possibility of oil leakage. The damping is easy to adjust, which maintains consistent performance on doors with a wide range of different dimensions and weights.

Titus T-type hinges can be supplied with cross-mounting plates or with linear mounting plates that simplify both hinge alignment and hinge-to-plate attachment. The new hinges are fully compatible with Glissando TL and the Titus Push Latch.

For further information tel Titus on 01977 682582.. Visit www.titusplus.com

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SPECIALIST IN THE PROVISION OF BIOMASS BOILERS & POWER PLANTS

THE global energy situation is characterised by limited natural resources – innovative wood-firing systems up to 8,000kW gas and oil reserves as consumption increases. In addition, increasing CO2 emissions heat the earth's atmosphere and thus lead to climate change.

This forces a responsible use of existing resources and requires more efficiency and the increased use of renewable energies.

Biomass plays a special role here. It provides most of the renewable energy, is steadily available and can be stored as needed, unlike wind and solar energy.

Wood as a fuel remains cost-effective in times of unpredictable energy prices, burns CO2 neutral and, in conjunction with sustainable forestry, helps to implement environmental and economic goals.

As a specialist for biomass boilers and power plants in the power range up to 8,000kW, Viessmann Holzfeuerungsanlagen GmbH is one of the leading full-service providers in this industry.

Viessmann Holzfeuerungsanlagen focuses on the conception and implementation of biomass plants for industrial, commercial and municipal customers.

With an export share of around 88 per cent of sales, the company is internationally orientated, with more

than 4,000 plants in operation in Europe alone. Viessmann Holzfeuerungsanlagen (Mawera) was founded in 1975 as Mawera and currently employs around 120 people at its location in Austria.

From boilers through to fuel delivery systems and exhaust gas cleaning the products are suitable for all wood fuels.

Essential features include the different firing systems, which are individually planned for each project and tailored to the needs of the customer.

Depending on the heat demand, hot water, steam or thermal boilers are used. Viessmann supplies the tailor-made systems turnkey and also provides the necessary accessories.

Services such as conception, service and assembly organisation emission measurements and the renovation of old plants complete the offer.

As the leading international supplier of heating technology systems, the Viessmann Group offers a complete program for all energy source and performance ranges.

Founded in 1917, the family owned company employs 12,000 people worldwide. With 23 production companies, sales organisations in 49 countries and 120 sales offices worldwide, Viessmann is internationally orientated.



For further information tel Mawera on 01543 258844. Visit www.mawera.co.uk



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COVID-19 HELPING TO ACCELERATE DIGITALIZATION

WHEN the manufacturing industry emerges out of the COVID-19 pandemic, we will see the rapid trend of digitalization.

However, to achieve maximum success - this will only happen if manufacturers finally deal with the challenge of data silos!

General manager of Elisa Smart Factory, the industrial data analytics specialist company, Kari Terho acknowledges that data silos are typical in manufacturing.

However, they are also a major hindrance to manufacturing digitalization for operations prepping for the "new normal" after COVID-19.

In this article, he explains why digitalization is critical post-COVID-19 and how manufacturers can tear down their data silos for optimum business sense!



How has COVID-19 changed the manufacturing world?

Due to the COVID-19 pandemic, thousands of suppliers, manufacturers and their customers have suffered material losses. Productions and shipments have slowed down and even stopped.

We've seen epidemics, pandemics and other global disruptions several times before. What's so different this time around?

Earlier global disruptions have only affected some specific, typically offshored manufacturing parts of the supply chains in Asia.

The damages were then signalled upstream, hit manufacturers and companies elsewhere, eventually stopped productions and cancelled shipments globally.

However, COVID-19 is the first pandemic, which has directly and simultaneously impacted multiple parts of the supply chains globally.

The unthinkable has become a reality for many manufacturers. Their primary plants have had to be closed down and this has impacted on the alternative back-up plants and suppliers. The members of staff have been locked-down.

For the first time in manufacturing history - demand, supply and workforce availability are affected, simultaneously.

Why is digitalization in manufacturing the answer post COVID-19?

According to the industrial data and tech company, Thomas, two-thirds of North American manufacturers are planning to bring production and sourcing back to the American continent. This is also known as reshoring.

Due to the high labour costs in Europe and the US, the success of production reshoring will depend on fully-automated, robotized and data-driven manufacturing systems.

Consequently, digitalized factories with a minimum of on-site staffers are likely to trend quickly post-COVID-19.

Why did the effects of the COVID-19 pandemic drive manufacturers on to their knees?

It wasn't just the halted production lines, it was the simultaneous staff lockdowns, measures of social distancing and other employee safety procedures.

Manufacturing requires people to physically be on-site. Operators keep an eye open and run machines, while maintenance staff maintains and repairs them.

Many factories are not designed to be managed remotely and lack the digital tools and infrastructure that are needed to support such activities.

Consequently, according to Gartner, up to 50 per cent of

the production workforce has been unavailable during the pandemic.

It is clear that the "new normal" will require smarter ways of working and also a higher degree of digitalization in manufacturing - such as a "virtual shift" - a team of specialists who connect remotely to be available 24/7 to supervise processes, guide and support the reduced personnel present on-site.

What is the major hurdle to the success of digitalized manufacturing?

Quite simply it is the obstacle of data silos. Many manufacturers have first-hand experience of working in an organization, packed with silos.

There are several stake-holders involved: from procurement to material planning, production planning, sales, finance, fulfillment and more.

These teams are working in their own silos; they have siloed processes, databases, systems and dashboards. While these might work individually, the systems do not communicate well across department borders.

The production machines generate massive amounts of valuable data. However, this data is very difficult to collect, due to the various machine-specific formats and interfaces, which has resulted in all the important data left to reside in isolated silos.

The information cannot be correlated, cross-referenced, combined, or harmonized to give an important end-to-end view on the manufacturing process, inventories and material flows.

These silos prevent manufacturers from efficiently advancing their digital transformation!

How can we break down the walls of data silos?

Start by gaining access to the data residing in the silos - i.e. production machines, systems and other departments.

This data, which is in different formats, will have to be harmonized, integrated, analyzed and then opened for use by various applications, such as a digital twin, or a performance monitoring platform.

In practice, this will involve connecting machines and core systems - such as ERP, MES, PLM, and automation systems via a purpose-built smart factory analytics layer. This will handle the continuous stream of data, generated by the machines and systems.

It will collect, integrate and analyze all the structured and unstructured data that has been collected from an unlimited number of sources.

This will result in valuable insights and can be created

simply by integrating the disparate data points.

The ERP systems will tell operators the inventory levels and delivery lead times; MESs will track and manage manufacturing information in real-time, to provide information gems about traceability and performance and the PLM systems will include all the information, related to a specific product, from concept to production.

Once all data is merged, a manufacturer can then gain a solid foundation for optimal digitalization.

Production lines can be automated and robotized and management will have full control over the manufacturing processes, even if they are based in remote locations.

Maintenance needs can be predicted and better managed.

Can the virtual and physical shifts collaborate efficiently?

Yes, if they can see the production area, lines and machines on a visual, online 3D digital twin.

The digital twin factory is based on real-time data, and it shows what is happening in the "real" factory, either on a specific line, or a machine at any given moment - so that operators and management can make fact-based decisions.

Can managers and supervisors keep an eye on the processes when locked-down at home?

They can. It works, by working with role-based performance dashboards, which collect data from all data sources and display it on a single intuitive view.

Managers can monitor the production KPIs e.g. net run time, yield, first pass yield and DPMO (defects per million opportunities) and compare these against set targets, in real-time.

Supervisors have end-to-end visibility of the inventories, machines and processes via performance dashboards and can optimize material flows continuously.

Digitalization makes manufacturing more resilient against severe disruptions by facilitating flexible ways of working.

New manufacturing tools can include digital twins, remote diagnostics, preventive maintenance, predictive analytics, virtual collaboration and more.

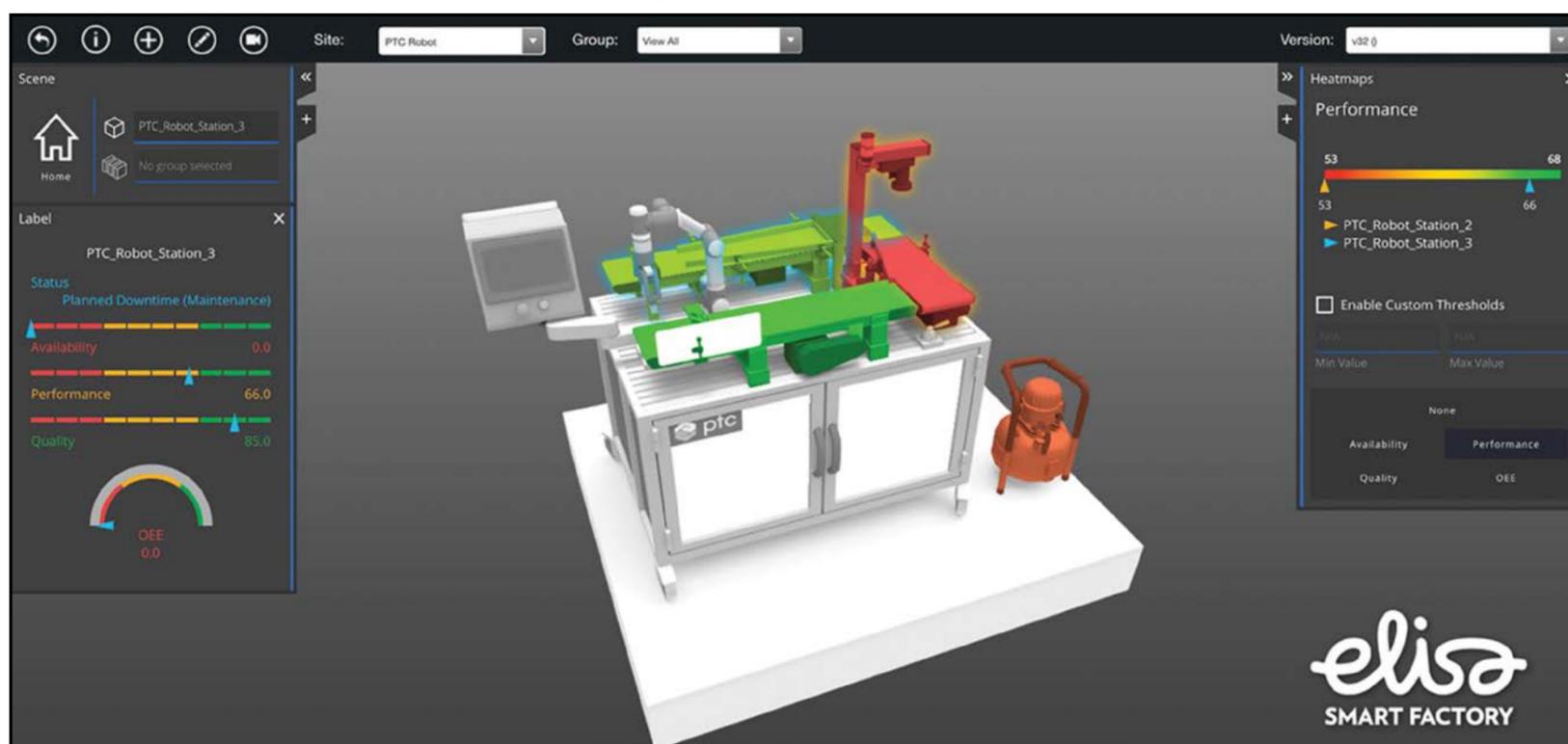
In conclusion

COVID-19 has pointed out hard lessons to manufacturers. We now realize that production is highly networked - and components and raw materials are sourced from all over the world. Despite this, global supply chains are fragile.

Factories cannot be dependent on staff being on-site physically, any longer. Learning can be positive, although now, it is the result of a devastating disease.

When manufacturers soon emerge from the downturn - they will be fully digitalized more resilient, efficient and flexible - and ready for the new normal!

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IDEAGEN - CELEBRATING 25 YEARS WITH THE RELEASE OF Q-PULSE SOFTWARE

SOFTWARE firm, Ideagen has released the latest version of its “modern, slick and visually-rich” version of Q-Pulse software to celebrate its 25th anniversary

The latest iteration of Ideagen’s quality, safety, risk & compliance management software is used by manufacturing and services firms, such as Bombardier, Coca Cola, Kingspan and Aggreko

Ideagen, the governance, risk and compliance GRC software provider, has launched a new and improved version of its Q-Pulse application to coincide with the 25th anniversary of the software.

Ideagen is headquartered in Nottingham, England, UK, which is a Centre of Excellence site.

The company has three other Centre of Excellence sites – one in Glasgow, one in North Carolina, US and a third in Kuala Lumpur.

The company also has global, strategic operational premises including (in the UK: Bromsgrove, Chesterfield, Leeds and Taunton), Cork in Ireland, as well as in Dubai, Kansas USA) and Sofia in Bulgaria)

The UK-based firm unveiled Q-Pulse version last month, thus marking the latest evolution of the quality, safety, risk and compliance management software.

Q-Pulse is used across the manufacturing and services industry to maintain operational integrity in line with standards, such as ISO 9001:2015.

The software helps remove labour and bureaucracy from quality and compliance management, providing control, efficiency and transparency.

As well as maintaining the software’s existing functionality, the browser-based Q-Pulse 7 comes with powerful dashboards for increased business intelligence and an intuitive user experience.

Ideagen’s chief technology officer, Ian Hepworth joined the company in May, 2018, to drive the development of Q-Pulse 7.

‘For any software product to remain at the top of the market for 25 years is an extraordinary achievement. To have one of our own reach that milestone is very special indeed and we are incredibly proud of the software and this latest iteration,’ says Ian.

‘With Q-Pulse 7, we believe that we have produced a modern, slick and visually rich software product that has really taken the application to the next level.

‘We have focused on bringing data from all across the business to life through visually appealing and quickly consumable dashboards to ensure that users can access information that is important to them quickly and easily.

‘In addition, thanks to its web-based interface, the system can be accessed anytime, anywhere – significantly extending its overall reach,’ adds Ian.

‘Q-Pulse 7 marks an exciting next step in the future of the product and in Ideagen itself. We believe that this release provides a solid foundation for the software to continue to lead the way in the manufacturing industry for at least another quarter of a century,’ proclaims Ian.

Originally launched in 1994, Q-Pulse first came into prominence as a quality

management solution, helping organisations make the first moves to paper-free control of processes related to document, audit and corrective action management.

Since then, each version has expanded its capability to help Q-Pulse become a trusted solution across the global manufacturing industry.

‘Q-Pulse helps organisations build a repository of business critical information that they can use to improve other processes,’ says Ideagen’s product manager for Q-Pulse, George Hall.

‘With Q-Pulse 7, all of this information can be surfaced immediately to improve the understanding of business performance like never before. It really goes beyond simple analysis and opens up the entire database for scrutiny,’ adds Mr Hall.

‘Since 1994, Q-Pulse has evolved from an innovative quality management solution to become a leading application within manufacturing for quality, safety, risk and compliance management,’ says Ideagen chief executive officer, Ben Dorks.

‘The success of the software during that time is testament to the talent, knowledge and foresight of our team within Ideagen and our customer base, who have helped to shape Q-Pulse into the product that we see today,’ he adds.

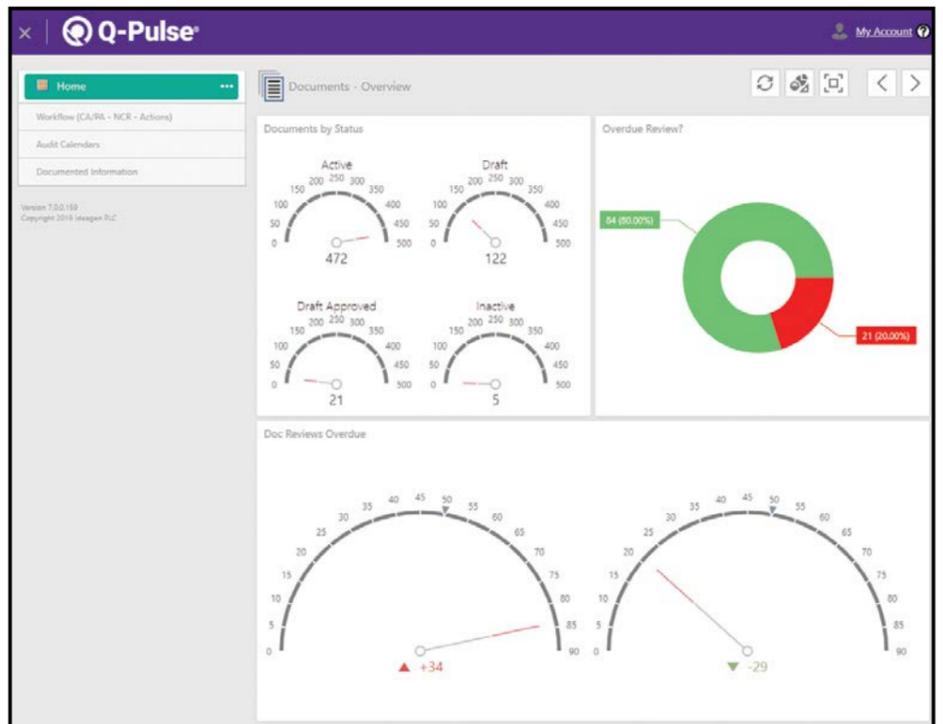


Ideagen’s chief technology officer, Ian Hepworth.

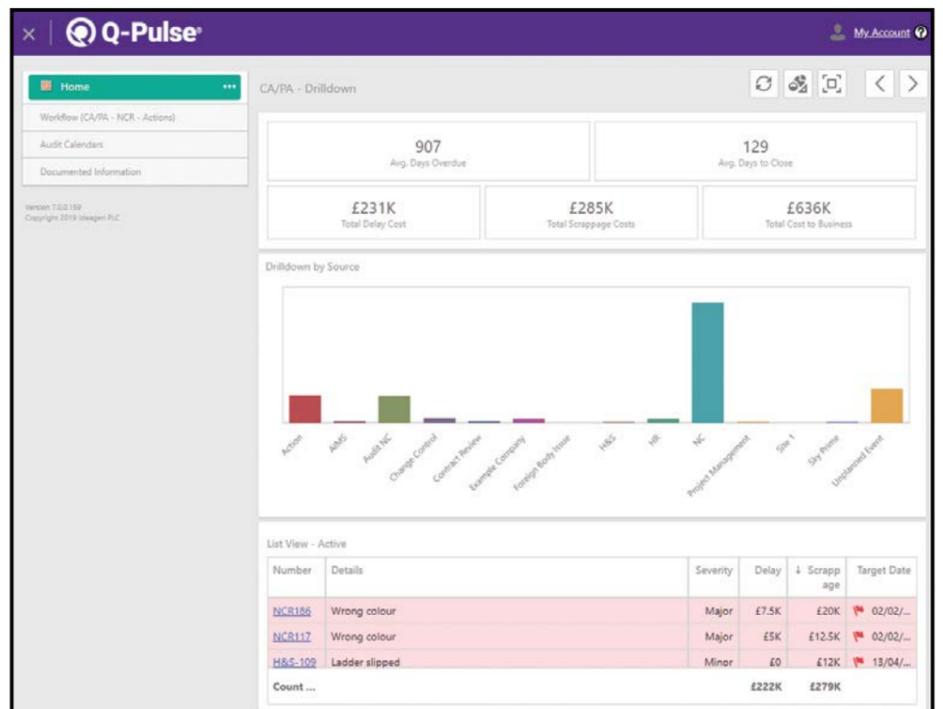


Ideagen chief executive officer, Ben Dorks.

For further information tel Ideagen on 01629 699100
Visit www.ideagen.com/products/q-pulse



Q-Pulse documents dashboard.



Q-Pulse 7 CAPA dashboard.



Ideagen’s product manager for Q-Pulse, George Hall.

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NEVILLE JOINERY WORKING WITH McDONALD'S

NEVILLE Joinery the long-established joinery, manufacturing and installation company, has announced that its 40 year plus relationship with McDonald's is to continue post Covid lockdown, with the firm continuing to provide key components for their refurbished and new build restaurant programme.

Neville Joinery was founded in 1875 and since April 2015, has become a separate trading company within the Neville Group of companies.

From consultation through to building and installation, Neville Joinery offers a complete service with expertise in joinery and woodworking, supported by a design service with leading edge CAD drawings and modelling and a high level of attention to detail and superior finish.

Neville Joinery has remained open and operational throughout the pandemic, in part due to its substantial workshop space where social distancing has been easily accommodated and also because the firm has had crucial contracts, across its client base, to complete.

The business is now back manufacturing a wide range of products for McDonald's for use in both the UK and Ireland - including recycling units, furniture components, internal doors and frames.

Director, Paul Radford, arrived at Neville Joinery this year to continue with ambitious expansion plans for this 145-year-old firm:

'The business has had an amazing relationship with McDonald's stretching over 40 years - both directly and indirectly via specialist contractors, says Mr Radford.

'In fact, they are one of our longest standing clients and it has been fascinating to look back on how the business and its needs, as well as its design influences, have changed and evolved over the years.

'The team here has kept meticulous records and they now form part of Neville Joinery's own history and evolution.

'We know that McDonald's requirements are for both exceptional standards of service and high levels of craftsmanship - both of these needs reflect the culture and practice that Neville Joinery has built its reputation, and its success, on.

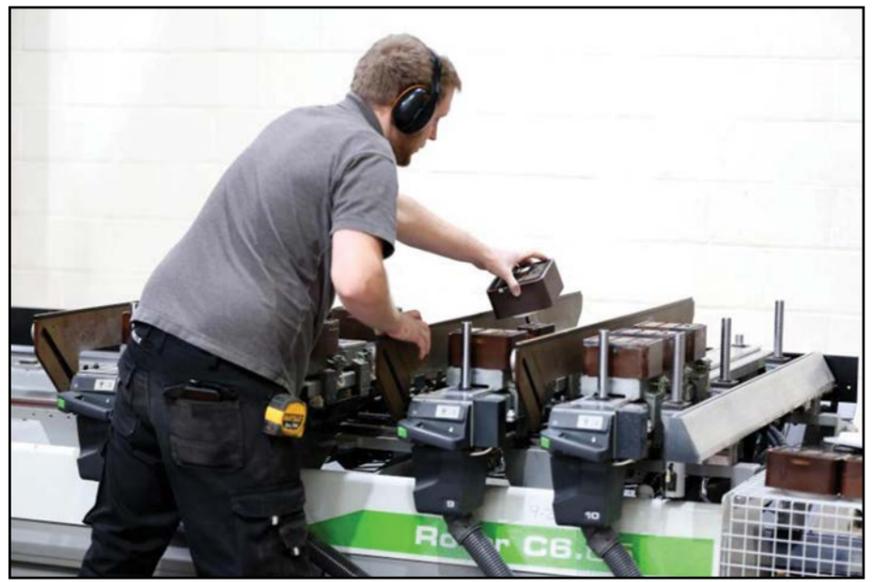
'We have the full team now back in the workshop to fulfil our contract with McDonald's and our full client base.

'In fact, we are fielding the highest number of additional enquiries received for several years, from both new and existing clients, which we know is attributable to clients taking greater care awarding contracts to suppliers that have demonstrable experience and expertise,' concludes Mr Radford

From consultation through to building and installation, Neville Joinery can offer a complete service with expertise in joinery and woodworking, supported by a design service with leading edge CAD drawings and modelling and a high level of attention to detail and superior finish.

For further information tel Neville Joinery on 01582 578327.
Visit www.nevillejoinery.co.uk

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AMERICAN HARDWOODS FEATURE IN LANDMARK PAVILION

WAUGH Thistleton Architects, the American Hardwood Export Council (AHEC) and ARUP are collaborating to present "MultiPly" – a modular cross-laminated tulipwood pavilion in the Sackler Courtyard of the Victoria & Albert Museum.

Waugh Thistleton is a research-oriented practice dedicated to designing buildings and places of the highest architectural quality that also acknowledge their impact on the Environment.

The studio practices sustainability in the widest sense of the word, focusing not solely on energy in use, but on embodied energy and longevity. The team believes passionately that sustainability and world-class design solutions should be one and the same thing.

Its holistic approach is based on the principles of "Reduce, Re-use and Recycle". Striving at every point to produce innovative and imaginative design solutions that harness leading technologies, the quality of its buildings and its commitment to the use of timber construction has earned the company an international reputation in environmentally sustainable architecture and design.

"MultiPly" – one of the London Design Festival's Landmark projects, will be comprised of a maze-like series of interconnect spaces which overlap and intertwine and will encourage visitors to re-think the way that our homes and cities are designed and built.

The three-dimension structure will be built out of a flexible system, made of 17 modules of American tulipwood cross-laminated timber (CLT) with digitally fabricated joints.

Cross-laminated timber (CLT) is an engineered timber that can be used to build walls and floors, making up the structure of entire buildings. It features a layered construction with the wooden planks turned at right angles in each successive layer, creating a panel with equal strength in both directions – similar to plywood.

Weight for weight, CLT is stronger than steel, or concrete and can be machined to incredibly high tolerances. This makes it ideal for pre-fabrication and rapid assembly, reducing construction times by around 30 per cent.

CLT is usually made of softwood trees. Together with ARUP, AHEC has begun a process of experimenting with CLT made from fast-grown North American tulipwood.

The planks will be imported from the USA, but the panels themselves will be manufactured in the UK's own fledgling CLT factory in Scotland. Testing has shown that the tulipwood is considerably stronger than spruce and it also has a superior appearance.

Like a piece of flat-packed furniture, it will arrive as a kit of parts and will be simply and quietly assembled in under a week. As is constructed out of modules, the pavilion can be taken apart and re-assembled in a new home after the London Design Festival.

"MultiPly" confronts two of the current age's greatest challenges – the dire need for more housing and the urgency to fight climate change. It presents a fusion of modular systems and sustainable construction materials as a solution.

"The main ambition of this project is to publicly debate how environmental challenges can be addressed through innovative, affordable construction," says co-founder of Waugh Thistleton, Andrew Waugh.

"We are at a crisis point in terms of both housing and CO2 emissions and we believe that building in a versatile, sustainable material, such as tulipwood is an important way of addressing these issues," adds Mr Waugh.

During the day the 9m high American tulipwood installation promises to be fun and playful. The labyrinthine spaces will lead visitors through a series of stairs, corridors and open spaces, inviting them to explore the potential of wood in architecture.

In the evenings, with subtle lighting, the pavilion will become a quiet and contemplative space, allowing visitors to reflect on the beauty of its natural material.

"The structure will lead people on a merry dance up and down the staircases and across bridges exploring space and light," says Andrew Waugh.

"MultiPly" has a high level of permeability to allow views through to the façade and courtyard, but also to entice viewers into the structure, so that they can experience new, carefully considered views to the existing heritage facades of the V&A.

"Waugh Thistleton Architects has been pioneering innovative uses of wood in construction for decades. "MultiPly" explores a new, more sustainable way of building, bringing together a

readily available carbon-negative material – American tulipwood – with modular design," says European director of AHEC, David Venables.

"AHEC has worked with many great architects in order to demonstrate the structural, aesthetic and environmental properties of American tulipwood CLT," adds Mr Venables.

For over 20 years the American Hardwood Export Council (AHEC) has been at the forefront of wood promotion throughout Europe, successfully building a distinctive and creative brand for US hardwoods.

AHEC is always keen to support projects which demonstrate the performance potential of these sustainable materials and to provide valuable inspiration.

The AHEC pioneered the environmental impact assessment – an approach that has since been adopted by other industries. This measures a number of impacts, including primary energy demand (from renewable and non-renewable resources), global warming potential, the potential for acidification, eutrophication potential and photo-chemical ozone creation potential.

"Continuing our exploration of hardwood CLT on installations, such as The Timberwave, The Smile and Endless Stair, "MultiPly" provides a playful opportunity to experiment and innovate with this tactile and highly adaptable material," says ARUP project director, Carolina Bartram.

"The seemingly simple series of stacked boxes form a complex engineering challenge, made all the more interesting by the fact that the sculpture sits on the newly completed, elegant Sackler Courtyard at the V&A.

"It is a privilege that, as engineers for the Sackler Courtyard, we are also contributing engineering designs for "MultiPly" concludes Carolina Bartram.

For further information visit www.americanhardwood.org



TITUS ANNOUNCES THE LAUNCH OF SPACE-EFFICIENT SECOND GENERATION SLIMLINE DRAWER

CABINET hardware expert, TITUS has launched a second-generation range of its popular Tekform double-wall drawers.

The new slimline versions feature a sleek and visually appealing design and have 14mm side panels, which maximise efficient utilisation of drawer space.

They also incorporate the precision-engineered Titus hydraulic dampers to ensure a reliable and consistent soft closing action, combined with low pull-out force.

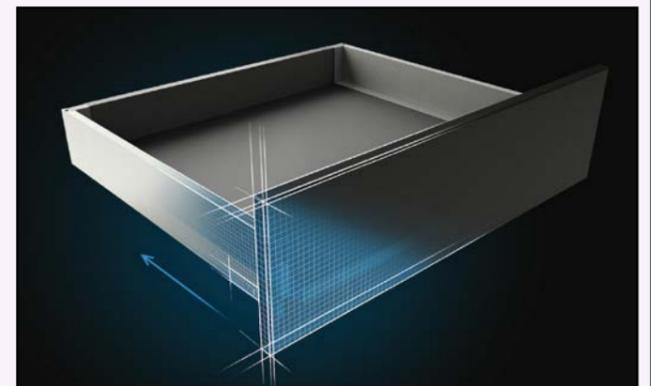
Tekform slimline drawers are available in three heights – 70mm, 145mm and 182mm – and can be supplied in a range of visually appealing finishes that ideally complement contemporary furniture designs.

A further key benefit is that they use the same drilling pattern for runners as their predecessors, which facilitates mounting in existing products and designs.

Drawers are fast and easy to assemble, thanks to the EasyFix locking system used for the front-panel connector, which requires only hand insertion and a quarter of a turn with a screwdriver to lock the panel securely in place.

Reliable life-long "ConfidentClose" soft closing is assured by the use of the renowned Titus single-direction precision-engineered hydraulic dampers, which smoothly slow down the linear movement of the drawer, as it reaches the closed position, but offer minimal resistance to movement when

the drawer is being opened. Installation of the drawers within the cabinet is fast and straightforward. Extended tolerances in cabinet construction can be accommodated without compromising accurate alignment, smooth and silent operation and excellent stability in the open position. In addition, variations of up to ± 1mm in bottom panel width size are acceptable.



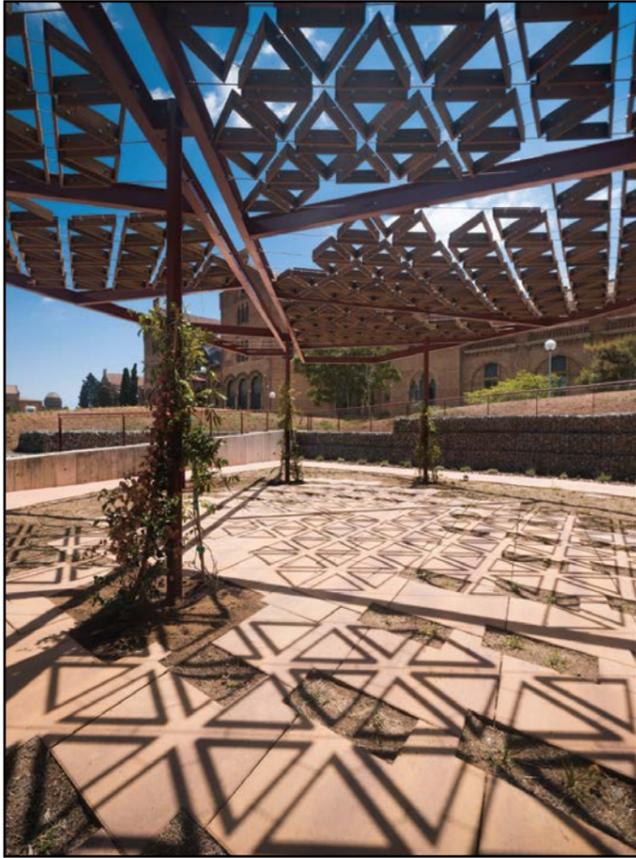
For further information tel Titus on 01977 682582. Visit www.titusplus.com



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THERMALLY MODIFIED TULIPWOOD UTILISED IN BARCELONA CARE CENTRE FOR CANCER PATIENTS



THE American Hardwood Export Council has made a commitment to modern society and people's well-being by donating thermal modification and highly skilled carpentry to the new Kàlida Sant Pau building in Barcelona, a care centre for cancer patients.

AHEC has donated American tulipwood to two spaces of the new Kàlida Sant Pau building in Barcelona: the outdoor pergola and trellised façade.

The building has been designed by architect, Benedetta Tagliabue from Miralles Tagliabue EMBT studio, with interior design created by architect and interior designer, Patricia Urquiola.

The features of thermally modified tulipwood provide resistance to weather conditions and adds warmth and elegance to the building.

The pergola design, under which visitors pass to reach the main entrance to the building, has been designed to act as a protective layer covering the garden.

The tulipwood boards form small triangles and are framed by a steel structure, offering textural contrasts to the outdoor area.

This design not only works to shield the outdoor space from surrounding buildings, it also offers an escape from the traditional hospital environment.

The trellised façade consists of horizontal thermo-treated tulipwood

slats, which allow light to filter through and offers views of the Hospital de Sant Pau complex, whilst still preserving the patients' privacy.

'The use of thermo-treated tulipwood was an excellent choice for the outdoor elements of the Kàlida Sant Pau building, because it has allowed us to add elegant wood elements and we have been able to use it in an optimum way for exterior applications,' says Benedetta Tagliabue.

'We believe that this technology is key for using wood in exterior applications. The market is growing and designers and architects want to use wood but, for this to happen, it has to perform well, look good and last, otherwise it simply won't be used,' says European Director of AHEC, David Venables.

'Thermo-treated wood doesn't use chemical products, it improves stability and has a minimal environmental impact compared to other techniques.

'We are delighted to have collaborated on the Kàlida Sant Pau building and with this fantastic social initiative,' continues Mr Venables.

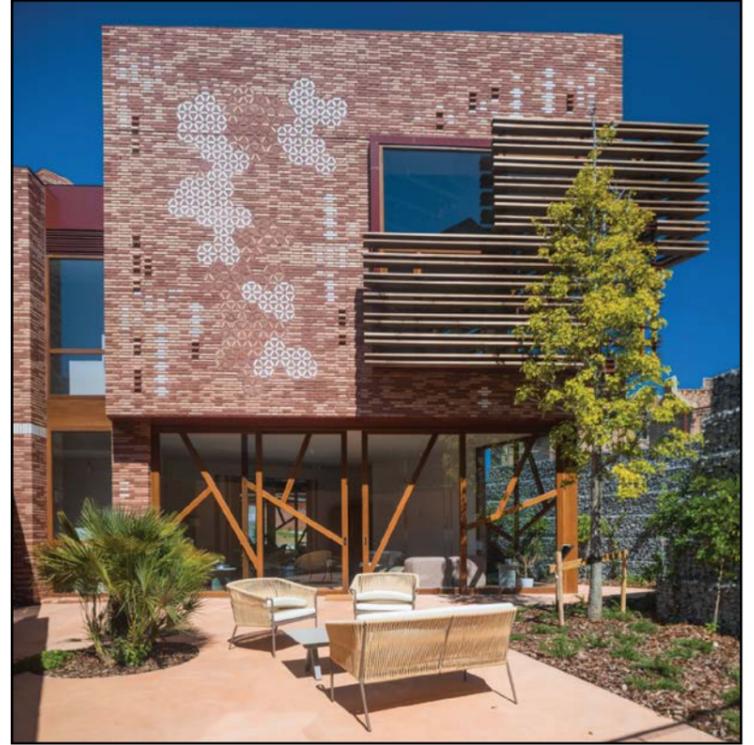
Thermo-treated, or thermally modified wood performs better and has increased durability, allowing it to be used in exterior applications with no need for additional protection.

Following this thermal modification, US ash, soft maple, tulipwood and red oak obtain Class 1 durability, the highest possible classification.

The treatment process consists of gradually heating the wood to a temperature of 180–215 deg C for three to four days (the time depends on the thickness and species of wood).

The treatment is applied in an oxygen-free atmosphere to ensure that the wood does not catch fire and it can be applied using steam, or in a vacuum.

This process reduces the timber moisture content significantly to 4–6 per cent (very low) and changes the physical structure of the wood, which limits its moisture absorption capacity.



This provides the products with more dimensional stability with the result that they are less susceptible to twisting, or losing their shape with changes of humidity.

The thermal modification process also destroys the hemicelluloses and carbohydrates in the wood, which are the main food sources for insects and moulds. This makes the wood more resistant to rot without the need for surface treatments.

This increase in dimensional stability and resistance to decomposition significantly extends the useful life of the wood and reduces maintenance needs. In addition, the wood acquires an attractive dark colour along its whole length.

Lastly, despite the energy used in the thermal treatment process, the carbon foot-print made by this process is compensated for by the fact that other protection treatments with significant environmental impacts are no longer necessary.

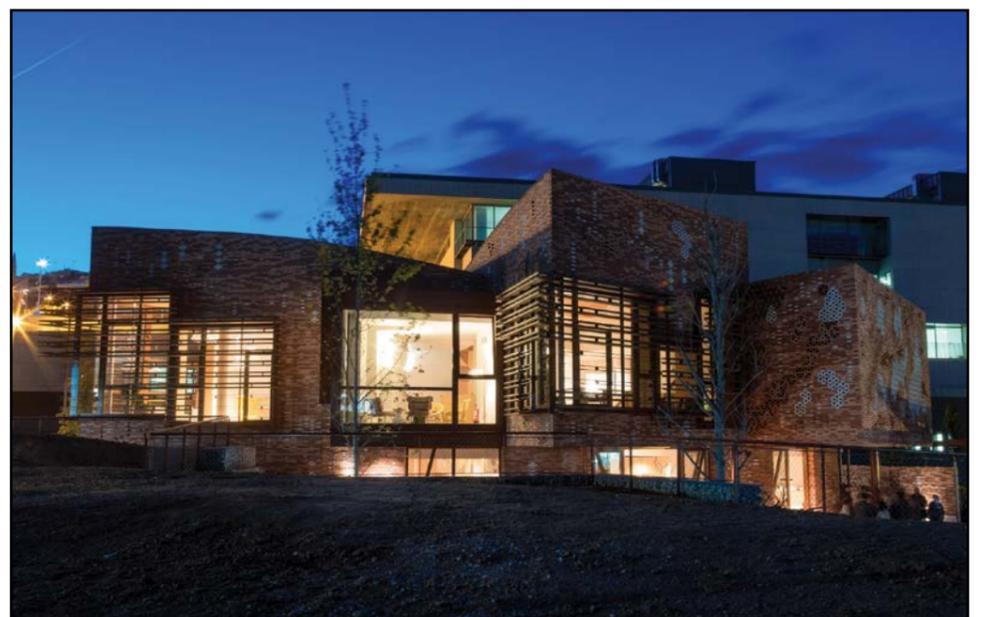
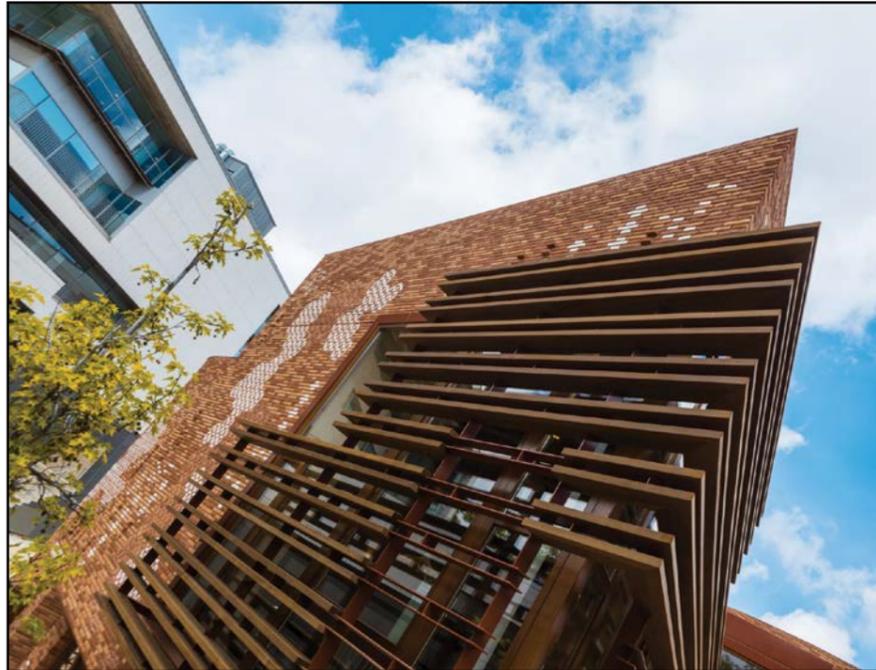
The new Kàlida Sant Pau building is located just a few steps away from the Hospital de Sant Pau Oncology Department in Barcelona.

Kàlida promotes a psycho-social care model for cancer patients, centred around the needs of the individual, just next door to the Oncology Departments of public hospitals specialising in cancer treatments, with dedicated areas to provide support for patients, family members, friends and carers.

Kàlida is inspired by the psychosocial care model of the Scottish NGO Maggie's and forms part of this international network.

The centre offers a comprehensive programme to make people with cancer feel supported and informed throughout the different phases of the cancer treatment in a specially designed architectural space.

For further information tel American Hardwoods on 020 7626 4111. Visit www.americanhardwood.org



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