

Kitchen Maker

Issue 18

Online

**SUNNY KITCHENS TO
COMBAT DARK DAYS**

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SUNNY KITCHENS TO COMBAT DARK DAYS

SUNNY KITCHENS

WE ARE in dark and troubled times – there is no doubt about that, no matter whether or not we are in full lockdown, due to the pandemic, which is currently sweeping the world.

Likewise, (and almost unbelievably), whether we are forced to be in complete isolation, or not may simply be dependent on which part of the UK we call home.

As we are all being forced to spend more and more time in our own homes and to isolate ourselves from others, it is certainly the case that we are no longer in a position to spend any of our

hard-earned money going out for a meal.

Instead we are spending more and more time in our own kitchens and, in the course of doing so, we are developing our cooking skills in an attempt to alleviate the boredom of having to stay safe in our own home.

Family life has always centred around the kitchen and as a means of providing for those members of our family who are forced into isolation with us, we are spending more time there than we have done for decades, as fast food is rapidly being upstaged by home cooking that we now have the time to indulge in.

In short, eating at home has become the new norm and, at the same time, with so much more free time at our disposal, we also have the opportunity to brighten up our kitchen environment in which we are currently spending so much more of each passing day.

In these dark days what better way to cheer ourselves up and brighten up the room in which we spend so much time with our families than to redecorate our kitchen.

Given the choice of the colour spectrum, perhaps the best colour of all is sunshine yellow. If we cannot go outside and enjoy the summer weather, at least we can bring a little bit of it into our own homes.

It is true that we all feel better as soon as the sun begins to shine. However, during these dark days of the global pandemic, every ray of sunshine that we can bring into our lives is a precious commodity.

We may not be able to get out and about during the lockdown and we may no longer have the opportunity to enjoy a picnic on the beach, or at a favourite spot in the countryside, but what we can still do during these long weeks of isolation, whilst we are forced to remain in our homes, is to brighten up our kitchen and create a more cheerful bright, sunny environment.

Surely, one simple answer is



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to bring the sunshine into the hub of the house.

When it comes to the use of bold colours, the kitchen is the one place in a home you do not have to play it safe. Cooking spaces can convey a sense of happiness thanks to the addition of a brilliant shade of buttercup yellow, warm shades of maple gold, or a splash of acidic lemon.

If your kitchen feels starved of natural light, or could use a few splashes of room-warming colour, yellow will invigorate your space with a sunshiny vibe.

Don't imagine that you have to paint everything to match the colour of the slice of lemon in a gin and tonic.

Yellow is nothing if not a refreshing shade and comes in a wide range of beautiful hues ranging from amber to muted creams and chartreuse through to saffron — and all these shades will brighten things up whilst evoking that cozy feeling.

In order to provide some inspiration to enable you to liven things up, here are our favorite ideas for creating a yellow kitchen.

One of the freshest décor current trends re-invents the classic yellow-and-brown 1970s kitchen. Combining glossy surfaces

with rustic textures in the cooking space can certainly make any kitchen feel up to date.

Bright yellow will always serve to warm up plain crisp, pale walls. Base cabinets painted in this manner will heap on the colour, as well as how happy we feel when preparing the evening meal during our isolation.

Yellow looks terrific against natural, unpolished timbers and even oak veneers, mustardy colouring can be used to good effect on the wood cabinetry whilst offsetting stainless steel worktops.

Underfoot try combining square, bright yellow floor tiles with black ones laid down in a chequerboard pattern for a totally stunning look.

Brilliant primary yellow hues can provide an excellent contrast to dark hunter greens. Adding a dash of red will certainly serve up a sense of exuberance.

Cool colours can make an interior that does not receive much natural light feel dark and uninviting, but add cabinetry in punchy sunflower yellow and you will create a totally different look and one which the duller of spaces appear to echo the sunlight of a summer's day.

An exuberant shade of yellow will certainly pay dividends in a modern farmhouse kitchen. The optimistic hue adds visual warmth by taking the chill off the stark, plain coloured cabinetry.

It is possible to create the neutral kitchen of your dreams with cabinetry in soft shades of buttermilk. These creamy hues rival white as an enduring classic.

A statement-making appliance can infuse a space with splashy style. Install a range cooker in vibrant yellow and your added emphasis of colour will certainly not go unnoticed. Likewise, a splurge of colour can be provided by the addition of a yellow kitchen island.

Perk up an all-white kitchen with a few vibrant accents. Add flowerpot-shaped pendant lamps in shades of citrus lemon. Bar stools in a vibrant shade of yellow will put you in the hot seat and

can easily and cheaply add an accent of much needed colour in an otherwise plain and lifeless work space.

You can combine old-world charm with modern functionality with the use of primitive-style cabinets in chrome yellow.

You can also totally transform a tiny kitchen with an eye-popping splash of sunshine yellow, or brighten up an industrial-style white kitchen with bold, yellow features.

Bright yellow worktops will have the same effect. Adding a yellow painted splashback is a ridiculously simple way to heat up a kitchen with a splash of yellow.

Muted cream-coloured cabinets and butcher-block countertops can be used to good effect to balance a canary yellow wall.

Simply painting the inside of kitchen cabinets a contrasting shade of yellow will give a definite boost to white cabinetry, revealing an unexpected burst of yellow when the doors are flung open.

Perhaps surprisingly (and one idea which few of us may have considered) is the combination of bright, buttercup yellow with pillar-box red which can work well.

Alternatively, a few pieces of bright yellow furniture can do the same trick, serving to spice up a kitchen in which neutral shades predominate.

Layers of texture, colour and lighting make the kitchen the heart of the house. Indeed, there are all manner of different ways in which the colour yellow can be used to bring the sunshine into your kitchen and during these dark days when we may all be feeling somewhat depressed, what better way is there to provide us with an uplift, whilst staying safe in our own home environment.



KITCHEN MAKER INVESTS IN A BRAND NEW MATRIX TABLE

THWAITE HOLME Kitchens & Bedrooms Ltd manufactures bespoke kitchens and bedrooms.

Each fitted kitchen, or bedroom is designed and made in the workshop near Dalston, Carlisle, by a very skilled team with years of experience in cabinetry and bespoke furniture who pride themselves in the quality of their products.

Styles run from classic to contemporary and kitchens are fitted by Thwaite Holme's own team of experienced fitters.

During the summer of 2017, Thwaite Holme invested in a matrix table from Lamont.

'Alan [Lamont] demonstrated a matrix table to us many years ago and it was something we were keen to purchase, but never quite got round to,' says director, Ian Postlethwaite.

'We had a smaller hydraulic table, which we used for many years, but it was too small and we needed a larger one with bigger capacity.

'Alan was the obvious choice. We had seen the product in both trade journals and other workshops and were impressed.

His place is only 20 miles away, so he is handy and local. We went up to see Alan at his premises and discussed our needs.

'Alan came back with a design and price and the table was manufactured specifically to our needs,' says Ian.

The design of the table was bespoke: at the same time as purchasing the matrix table, Thwaite Holme invested in an OMEC 750CN dovetailing machine.

The matrix table was constructed with a special section in the bottom left hand corner designed specifically for the assembly of dovetail drawers.

Together, the dovetailing machine and the matrix table opened up a whole new field for Thwaite Holme. The matrix table is also used for the assembly of frames and doors.

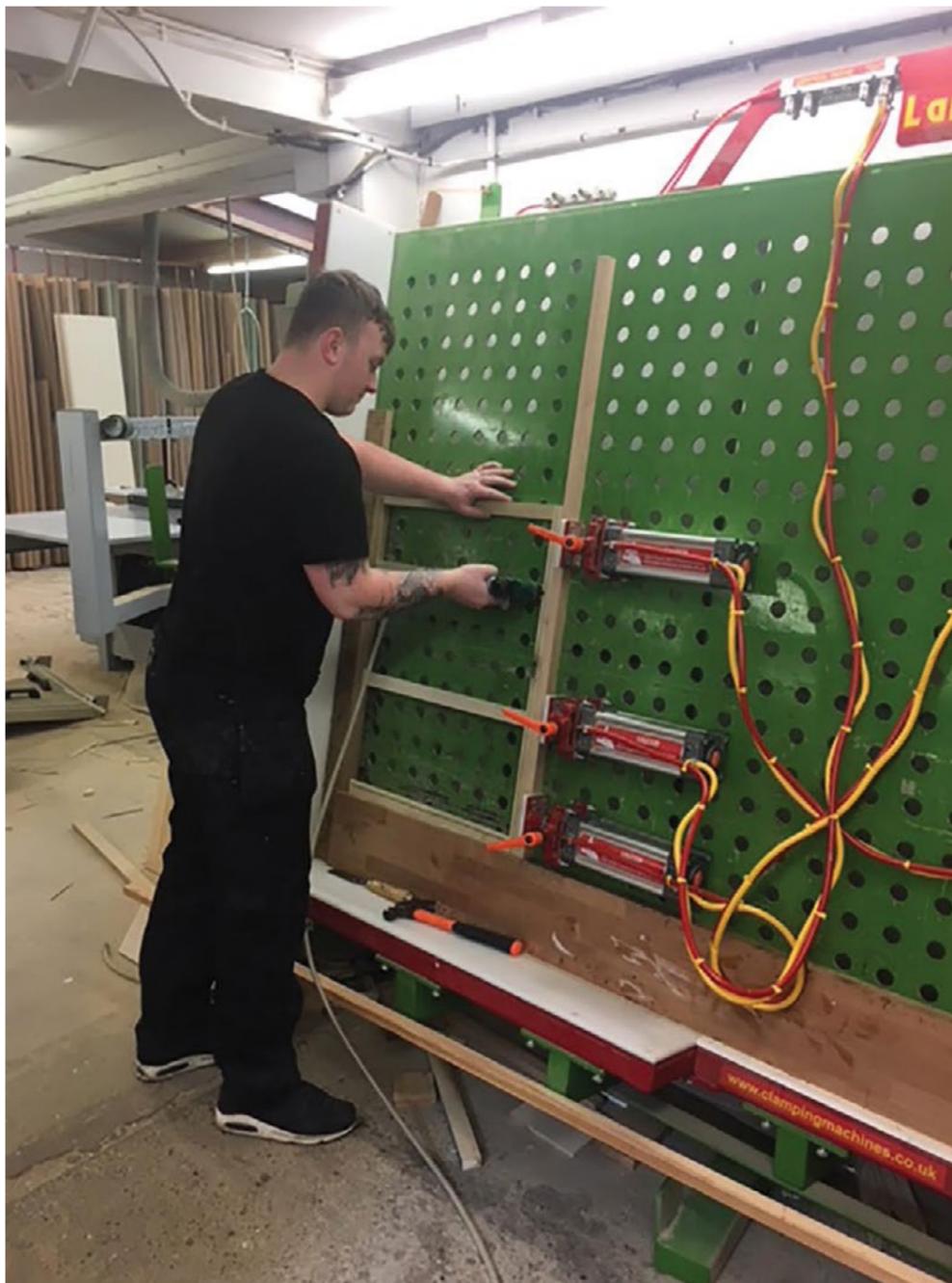
Ian describes the advantages brought by the matrix table

as "speed and accuracy of assembly and bigger capacity. It is vertical rather than horizontal and this is much more convenient and space saving."

When asked if he would recommend Alan and the matrix table Ian replied:

'Absolutely, 100 per cent I would recommend him. We would tell him the issues we had, and he was very good at coming up with solutions. I was very happy with the whole process,' concludes Ian.

Want to find out more?
Visit www.clampingmachines.co.uk



KITCHEN MANUFACTURER HAS THE WISDOM TO INSTALL WOODWORKING MACHINERY PRODUCED BY MARTIN

WOOD & WISDOM is a specialist joinery company based in Balcombe in Sussex with a strong emphasis on producing a stunning range of hand-made bespoke kitchens, which are built to last.

Many of the made-to-measure fitted luxury kitchens and free-standing kitchen furniture items produced by Wood & Wisdom are of typical Shaker styles and are built using traditional techniques and construction methods.

Each step in the construction process of a hand-made kitchen is designed and carefully crafted to meet the original vision of the individual client.

Most factory-made contemporary kitchens are either wood veneered, or use plastic coatings over a moulded particle-board core, but Wood & Wisdom's bespoke kitchens are fundamentally different.

In a solid wood kitchen all the components, from doors and worktops to the panels of the carcasses themselves are made from planks of wood.

Once machined, they are bonded together, forming a super-strong structure. Even when solid wood kitchens are painted, it is obvious that they are not made from veneer-covered particle board, because the natural

grain of the timber shines through.

Wood & Wisdom operates out of 5000ft² workshop premises, where the company's professional craftsmen provide an expert design, fabrication and installation service to architects, contractors and private individuals throughout Kent, Surrey and Sussex and in Central London.

The master craftsmen at Wood & Wisdom may be skilled in traditional techniques, but the company's joinery workshop is cutting edge.

Here Wood & Wisdom has invested heavily in state-of-the-art machinery



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and equipment, including a dedicated CAD and setting out facility to help the company meet its clients' exacting requirements with unparalleled levels of efficiency and within pleasingly short lead times.

In short, according to the company, the Wood & Wisdom workshop is "where traditional techniques meet state-of-the-art machinery".

Here one of the latest machines to be installed in the workshop is a Martin T27, which replaced a simple CNC spindle moulder.

Martin's T27 spindle moulder is renowned for its flexibility. Setting up a spindle moulder can be a major challenge. However, this is not the case with Martin's T27, which features a modern touchscreen controller.

The integrated tool calculation enables the operator to set up complex moulding patterns in no time at all and with the spindle in the tilted position.

The large tilting range of 2 x 46deg can be efficiently deployed on this basis. All you need to do is follow your

inclinations lock, stock and barrel!

The 5.7in touch screen control unit features self-explanatory coloured icons, comprehensible text messages and the clearly arranged menu structure will support even inexperienced operators and ensure first class results.

The bilaterally guided fence provides the highest level of position exactly where it counts. It is set by means of a hand wheel, according to a digital display in the control unit in the basic version of the T27. The motorised version is controlled completely electronically.

If the fence has to be removed from the machine table, for example for moulding on the ring fence, no time-consuming referencing is required after re-configuration, owing to the precise and reliable mechanical fittings.

The electrical table rings (invented by Martin in 1999) can be infinitely variably adapted quickly and efficiently to tools with diameters ranging from 70mm to 250mm. As the table opening can also be adjusted to the tilting tool,

the operator will quickly appreciate this added capability.

The feed support with electric motor positioning, together with its ingenious latching mechanism, provides genuine workload relief.

The height adjustment of the feed unit can be very easily specified and approached via controller and can also be integrated in the programs.

The setting of the feed depth can be very easily adjusted thanks to the ball-raced guide. In addition, if the feed is not currently required, it can be simply swivelled away to one side – without losing the previously made settings.

The machine frame is a sturdy, thick-walled composite structure – the design of which is a particular feature of all Martin machines.

According to Martin, many manufacturers like to think of their machines as having composite frames, however, if you examine them more closely, you will quickly discover that Martin is the only manufacturer of standard woodworking machinery to

use steel and concrete in a genuine composite construction.

One component is of no use without the other and only the intelligent combination of these materials provides a first-class frame. Martin's frame offers the customer the perfect basis for superior work.

The infinitely variable rotational speed control for the cutter spindle enables the operator to tailor the speed of the tool perfectly to the demands of the working process within a range of 1,000-12,000rpm – even during operation.

In addition to the very slow profile sanding heads, the large speed range means that small high-speed tools, such as end mills can be used with an ideal cutting speed without any problems. Motors are available from 7.5kW to 11kW to provide the required power.

On the T27 motorised positioning of the fence is an extremely useful addition, irrespective of whether a spindle moulder, or tilting arbor spindle moulder is concerned.

The operator can therefore make the most frequent settings for a spindle

cutter, the cutting height and depth, with the complete support of the controller, because the electronics are now responsible for doing what you once did by means of a hand-wheel.

The fence settings are approached with pin point accuracy owing to the extremely high reproducibility of +/- 0.025mm.

Even critical settings such as those for cutting counter profiles can be precisely positioned. Like the cutting height in the basic equipment the cutting depth is therefore also a component of any program and the controller carries out the positioning in accordance with program specifications.

Motorised positioning of the infeed jaw presents itself when the purely digital display is no longer sufficient. The operator obtains complete control over the fence with this option, which is only available in conjunction with electromotive positioning of the fence.

The operator makes all the settings on the fences from the controller. This option is recommended for users who frequently carry out extensive moulding operations on the workpiece.

The new HSK tool interface is

the ideal extension for users who regard their spindle cutter as an effective supplement to their CNC machining centre, or wish to change their tools quickly and easily as a unit with the arbor.

If the basic T27 spindle moulder is equipped with Martin's proven DornFix quick-change system, the pneumatic HSK clamping system can be selected as an option.

Using this technology, you can change the tool/arbor unit within a few seconds and achieve enormous savings on the amount of time required for setting up purposes.

Furthermore, you can use suitable CNC machining tools on the spindle cutter without any problems, thereby relieving this expensive machine from capacity-consuming traversing moulding jobs.

Want to find out more?
Visit www.woodandwisdom.co.uk



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DEZIGNATEK – FOCUSING ON BESPOKE KITCHEN PANELS, DOORS AND DRAWERS

DEZIGNATEK has been operating in New Zealand since 2004 and focuses on providing bespoke thermo-formed doors, drawers and panels for the kitchen and carpentry industry.

The company's services include the customized manufacture of membrane-pressed fronts, drawers and panels, expanded by laser edge-banding services for melamine, acrylic and laminate fronts.

Dezignatek is part of the New Zealand Panels Group and its production is located in a state-of-the-art manufacturing facility in East Tamaki, New Zealand that opened in 2017.

All parts entering production come from two pressure beam saws, or several nesting centres and go through a very careful sanding process before they reach the membrane presses.

In order to find a way to make this more efficient, the Dezignatek management team visited LIGNA. During their tour in Hanover, they became aware of the MB Maschinenbau booth, where a Roba Tech brush sander was demonstrated to

customers. Dezignatek immediately noticed that this solution could be an approach for their rationalization task.

As a result, detailed discussions were already held during LIGNA about modernizing the sanding processes at Dezignatek.

Very quickly it became clear that only a one-pass line solution would enable a maximum rationalization effect.

Dezignatek therefore decided to develop a solution, in co-operation with MB Maschinenbau, that would enable all-round edge sanding, plus sanding and cleaning the visible side of the parts in one pass.

Even though before starting, samples were created and sent to Germany to check the performance of the individual components of the potential line.

Dezignatek has been very focused on this and sent several furniture fronts to Germany as, in conjunction with the MB team of specialists, suggestions for prefabrication improvement at the nesting centres have been made.

These joint efforts have achieved an optimal co-ordination between prefabrication and sanding and the results were that promising that the line configuration could be evaluated.

The aim was to design the line in such a way that "Batch Size One" production with random part sizes can be realized.

Consequently, MB created a layout that provided all-round edge sanding at the beginning of the line. For this purpose the Roba REP edge sander, which is able to measure all incoming parts by means of laser scanning and move the sanding units into the required position based on this data, was placed at the line entrance.

Positioning is by servo axes in high speed mode and thus ensures that all fronts can be processed with a high throughput. A right and left double brush, equipped with extra-large tools, ensures high-quality sanding of two edges without additional adjustments.

Behind the sanding cell the parts are placed by a lateral pusher, equipped with a high-speed servo axis, on a return conveyor that sends the fronts back to the operator.

The operator turns the parts by 90 deg and feeds them again through the Roba REP to sand the missing two edges.

After the all-round edge sanding is completed, parts are distributed side by side by the same abovementioned pusher system in order to fill the subsequent Roba Tech evenly over the entire 1300mm processing width. Next the patented Roba Tech takes over the sanding of the visible side of the parts.

Dezignatek opted for a machine configuration with micron disc at the machine inlet, Roba Tech sanding belt in the machine centre and chamfered disc system at the machine outlet.

The flat micron discs are suitable to sand flat surfaces and replace Dezignatek's previous wide-belt sanding.

The Roba Tech sanding belt, equipped with an extremely high quantity of abrasive and a large working area, ensures the smooth rounding of all sharp edges, as well as the sanding of the outer radius and the deep milled contours.

The final disc system, which uses chamfered sanding brushes, sands in those particularly hard-to-reach vertical contours and ensures fine sanding of the entire surface.

Now that the door edges and surface have been sanded, the parts go through a Roba Anti Dust.

This machine is a special MB Maschinenbau development in which a lot of cleaning know-how has been incorporated.

Cross-cleaning units from above and below, a double brush rotating clockwise and counterclockwise, paired with ionizing bars and a noodle blower at the machine outlet, ensure a perfect cleaning of all parts.

All units are equipped with ostrich feathers. Due to the static charge, the large outer diameter and the many fine hairs that create a large surface to collect dust particles, the dust is literally "sucked" by the tools.

All brushes are static unloaded in the suction hoods, the dust pick-up is removed using special beater bars and released into the suction hood. If existing, minimal residues of dust particles are removed by the final noodle blower.

This means that perfectly cleaned parts leave the machine and are handed over to the spraying station to apply the glue. After a final visual inspection, the fronts go into the membrane presses.

With this new line, Dezignatek is now able to sand and clean its entire production of approx 2000 furniture parts per day with just three people: one person fills the line and two people carry out the visual inspection and stacking at the end of the line.

All of this is happening and that was Dezignatek's main focus at the start of the project - fully automated processing completely random part sizes.

Dezignatek's conclusion and praise to MB Maschinenbau: 'There is no better solution for a "Batch Size One" sanding process execution.'

Want to find out more?
Visit www.john-penny.co.uk



HOT COATINGS FOR KITCHEN CLIENTS

STICKING POINTS

KLEIBERIT has grown to become a global leader and innovator of PUR adhesive systems and in 2019 the company will be celebrating its 70th anniversary.

Kleiberit's impressive milestone coincides with the company embarking on a ground-breaking 10-year vision: a €40m investment plan that will see the company double its capacity and increase both the speed and flexibility of its operation.

Kleiberit began trading in 1948 when its primary focus was on producing classical white glue for the woodworking market, including kitchen furniture manufacturers. In the 1980s the focus shifted towards polyurethane hot melts – and it's this niche that Kleiberit has really made its own.

'Today the main part of our business is the woodworking industry,' explains managing director of Kleiberit Germany, Achim Hübener

The adhesive specialist – that has had a subsidiary in the UK since 1992 – openly admits to not striving to be all things to all men.

'We only supply B2B,' says Achim. 'We start with small kitchen fitters, carpenters and the like, but we also go out to the big companies in the industry. Our strength lies in the development capabilities we have here, in the manufacturing capabilities we have and in the technical expertise we can offer our customers. These are the three main cornerstones of our business,' says Achim.

Achim attributes much of Kleiberit's success to the hands-on experience of its sales engineers, who spend much of their time working alongside production staff in the factories of Kleiberit customers.

'They are not only able to give you a price, or discuss a package that works for you, they are able to run the machine in your factory,' he says.

'They will run our glue on your machine and demonstrate what, in our opinion, are the best settings to achieve the best mileage out of the product, the best coating out of the product and the best adhesion performance out of the product.

At Kleiberit's German headquarters, the company has a large scale application centre with industrial-size machinery – a resounding nod to the company's ongoing investment into research and development.

'If you want to put your foil on a full 8 x 4ft sheet of the type you are using, we can do that here. We will not ask you to cut it down to A4, so we can show you that the glue works,' explains Achim.

Keen for Kleiberit's customers to get the most out of its product range and benefit from its team's exceptional experience in adhesives, customers can also visit the application centre with new materials where Kleiberit's experts will work with them to find the perfect solution for their manufacturing needs.

'This is a real benefit of Kleiberit as a partner. Customers can come here and get good support, good service and a good product,' says Achim.

'We work with major machinery companies who let us participate in their innovation, so when they bring out a new machine, we already have the glue that works with it.

'An example of this is the hot coating story that we developed in conjunction with Barberan: we had the PUR to provide a perfect bond to melamine and Barberan had the machinery to provide the benefits of a perfect optical finish.

'That was the idea behind hot coating: it combines PUR technology and lacquering and the result is a finish with very high abrasion resistance, making it ideal for kitchen worktops and other areas of high sustained useage

This insightful approach to business was behind the acquisition of Dekora PUR in 2014. The hot coating company can now conduct full scale production trials and technology demonstrations at a moment's notice, whilst also producing panels for would-be investors who might want to start supplying product ahead of the installation of a line of their own.

The company is manufacturing for several regular kitchen clients in Germany who want the hot coated product, proving the point that Dekora PUR isn't just a demonstration facility that's polished meticulously for visitors and opened on demand – it's a fully fledged production business that's running two shifts a day.



Want to find out more? Visit www.kleiberit.com

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P/L Job Report - 06/26/2017 - Last calculation on the 06/26/2017 at 11:21

Sales order: JB17_0013 - Bob's House Progress: 19.00 %
 Customer: Cabinet Vision Productivity rate: 0.00
 Order amount: 350.00 Actual cost: 103.20 Profit/Loss: 246.80 70.51 %
 Profit/Loss per hour: -13.57 Non-conformity time: .00 Non-conformity costs: .00

Description	Task time	Task amounts	Time spent	Actual costs	Remaining time	Remaining costs
Engineering	1.00	40.00	.50	20.00	.50	20.00
Machining	1.00	40.00	.50	20.00	.50	20.00
Milling	2.00	50.00	2.00	50.00	.00	.00
Edgbanding	2.00	50.00	2.00	50.00	.00	.00
Assembly Doors	1.00	20.00	1.00	20.00	.00	.00
Assembly Drawers	1.00	18.00	.00	.00	1.00	18.00
Assembly	1.00	18.00	.30	3.75	.70	12.60
Packing	1.00	25.00	.00	.00	1.00	25.00
Assembling	1.00	15.00	.00	.00	1.00	15.00
Finishing	5.00	36.00	1.30	23.75	3.70	70.60
Transport	5.00	150.00	.00	.00	5.00	150.00
Install	1.00	25.00	.00	.00	1.00	25.00
Subcontracting	6.00	210.00	.00	.00	6.00	210.00
Pull	12.00	385.00	.00	.00	12.00	385.00
Board Stock	.00	4.50	.00	.00	.00	4.50
Panel Stock	.00	29.06	.00	4.05	.00	25.01
Hinge Plate	.00	13.00	.00	.00	.00	13.00
Purchases	.00	46.56	.00	5.40	.00	.00
Total:	20.00	617.56	3.80	103.20	16.20	518.11



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EASY-TO-USE SOFTWARE TOOL FOR MANUFACTURING KITCHEN CABINETS

AN ARRAY of new and enhanced functionality and seamless integration with other software packages ensures that the latest release of Alphacam stays at the forefront of helping woodworkers create Smart Factories, in line with Industry 4.0.

They include Casebuilder, an innovation, which is the result of a partnership with Cabinet Vision.

It was created specifically for small- to medium-sized woodworking companies and is used for quickly designing cabinets and case goods... and then with the click of a button processes the parts and generates NC code using Alphacam.

Product manager, Chip Martin describes it as an easy-to-use order entry software tool for manufacturing kitchen and commercial cabinets.

'With minimal set-up, users are quickly designing and sectioning cabinets and outputting ARD files directly to Alphacam, for output to NC routers,' says Chip.

'Cabinets can be configured individually, including the quantity and position of doors, drawers, shelves and roll-outs and then the system automatically generates Alphacam drawing files for all the components,' he adds.

Updates to the Automation Manager in Alphacam 2021 assist

users to prepare jobs for processing, as well as managing them.

He says that the order of layers and machining styles can now be modified.

'The order defined in the layer mapping set-up will be used for applying the tool-paths and users can now control the order of the tool-paths while defining how the part will be machined. However, the Machining Order option can still be used for ordering operations by tool,' says Chip.

Automation Manager now shows the list of parts that could not be nested, so that the operator can either cancel them or process them in a future job. An option to create a new job containing only the parts that could be nested is also available for further automation.

Enhancement to the user interface provides full control on which part properties the operator wants to see.

'In previous versions, users could only see the part names and needed to click each part individually for more information. Now they can see key details, such as height, quantity, if the part is nested and any of the part's properties,' explains Chip.

The new Folder Watcher allows jobs to be processed autonomously via Automation Manager.

Chip Martin says that this tool is ideal to use in both a well-

established manufacturing process, as well as where orders are created through ERP software, or any other system outside Alphacam.

'It watches a folder and, as soon as an order is created, it automatically processes it using Automation Manager without the user having to do anything,' says Chip.

Moving on to CAD - Geometry Node editing has been improved to allow multiple elements to be converted to a single line or arc, Prompts will appear about node selection when two or more nodes overlap.

It's also possible now to break and join one, or multiple paths without having to leave this command, making it a more complete tool for modifying and fixing 2D geometries.

Alphacam's heavy investment in machining solids directly, without the need to create geometries, has led to a major improvement regarding automation.

'Previously, it's not been possible to automate this, as the solid faces to be machined always had to be picked manually. However, in the same way that geometries in layers can be machined using Machining Styles, solid model faces can now be added to layers,' says Chip.

'Machining styles are created from a variety of operations and users can easily machine solid faces in that layer without having to manually select the faces,' he says.

A new option to Optimise Tool-path Overlapping significantly improves material usage in nesting. It allows tool-paths around different parts to overlap, provided that the tool doesn't cause any

damage.

Additional distances are applied where required to protect the parts, while still allowing the tool-paths to overlap.

He says that the new option also brings notable nesting improvements when tools with a larger diameter are used inside the part, but a smaller tool is needed to cut the outer shape.

'In earlier releases, nesting would use the largest tool to define the overlap between parts, to avoid tool-paths damaging other components. Now, the nesting engine uses the outer tool diameter to define the overlap,' says Chip.

Another enhancement enables solids to be nested with their geometries.

'As nesting is a 2D solution, it's not yet possible to nest parts containing workplanes, but as solids can now be placed in the nested sheet, it's possible to machine the solid after it's been positioned there.

'Tool-paths can be applied directly to the solid and solid faces and the user can even carry out another operation to extract geometries from the solids and then machine those geometries. It means that after nesting, it's possible to machine geometries and solid features using more than three-axis,' says Chip.

Using a new project manager page called "Clamp Insert" clamps and fixtures can be dragged and dropped into drawings and then an XY location chosen to insert them.

Once they're in place, Alphacam automatically reads the material thickness and places the clamp at the correct Z level.

'It's also possible to define if the clamp will be positioned below, or if it will be holding down the material and allows the user to rotate the clamps on insert,' says Chip Martin.

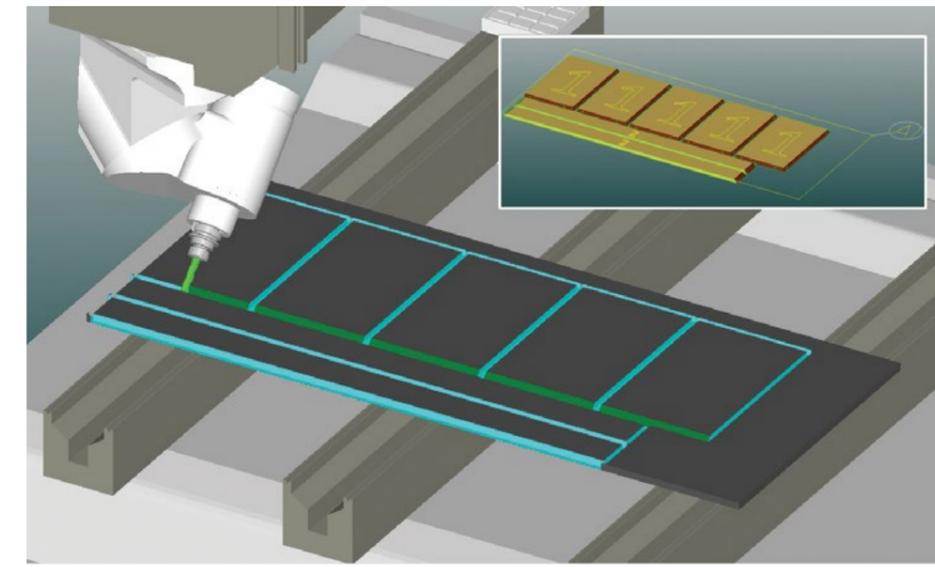
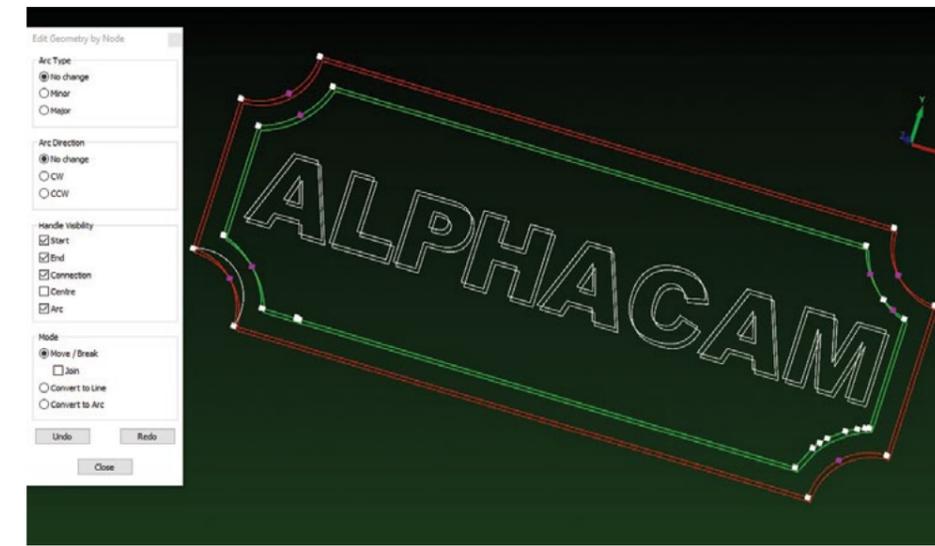
He adds that this is part of a long-term project, making it easier to use clamps in Alphacam and that future releases will extend it to more complex clamps with several movable components, such as rails and pods.

NCSIMUL Essential has been integrated into Alphacam, replacing the external simulator in the router and mill modules, giving the ability to simulate three-to-five axis tool-paths and machines with movable clamps.

Finally, another integration; this one with WORKPLAN and nesting offcuts. Alphacam connects directly to a WORKPLAN server and uses the materials in its database, meaning that the operator knows the exact amount of material in stock to run a job, as well as making it easier to manage offcuts.

'Users reserve sheets and define which offcuts will be generated by the job. Confirmation that the job has been processed, is done using WORKPLAN's windows tablet application. The main material will be deducted from stock and the offcuts added to the database, where they'll be available for future jobs,' concludes Chip Martin.

Want to find out more?
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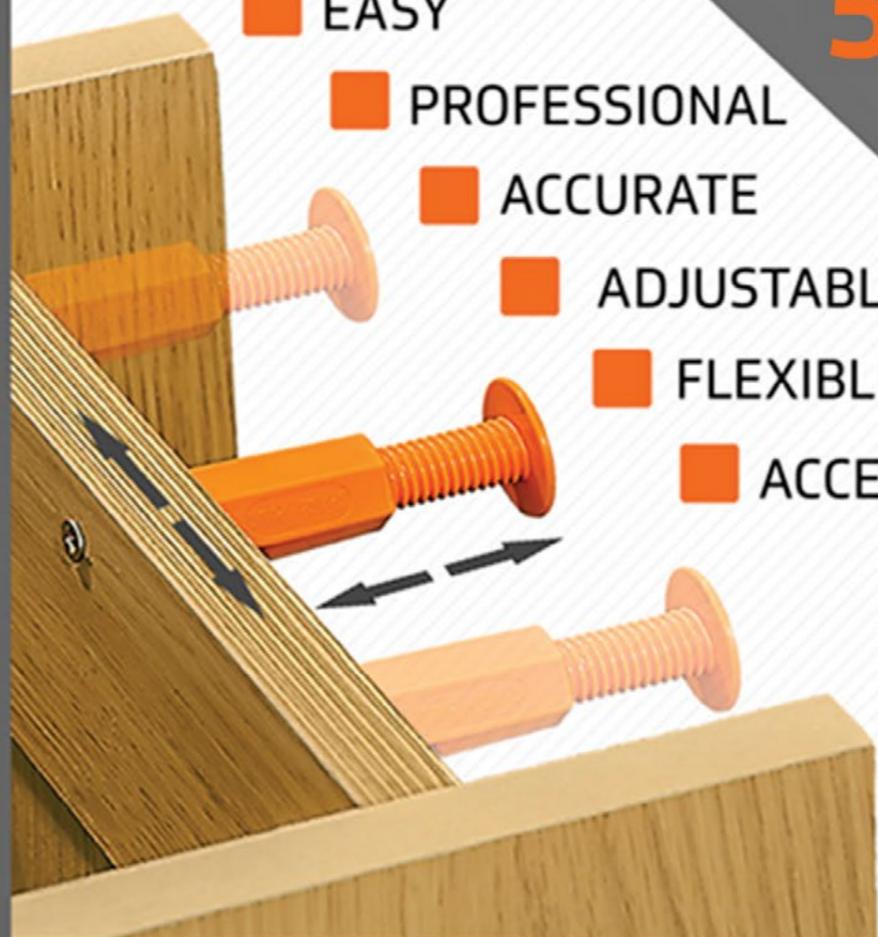
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FURNITURE
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TITUS T-TYPE HINGES: SETTING NEW STANDARDS IN TERMS OF PERFORMANCE, VERSATILITY & CONVENIENCE

THE new T-type hinges from cabinet hardware expert, Titus reliably deliver the soft closing action preferred by end users, whilst also offering decisive advantages for kitchen furniture manufacturers.

They feature the company's three-way snap-on mounting, which makes them fast and easy to install. They can be used with a wide range of door thicknesses and types and they are tolerant of misalignment and drilling variations. In addition, they have passed FIRA tests for BS 6222-2-2009, Test Level H.

T-type hinges feature the renowned Titus Confident Close action. This is the consumer-preferred reliable and consistent soft-closing action characterised by late-start deceleration and quiet landing in the last stage of closing, as the door reaches the cabinet side.

The proprietary Titus multi-purpose integrated damping technology is transversally positioned in the hinge cup, which ensures dependable life-long damping with no bounce-back.

The dampers used in these innovative hinges are single-direction hydraulic types that are fully sealed to eliminate the possibility of oil leakage.

They are easy to adjust, which ensures that consistent performance can be achieved on doors with a wide range of different dimensions and weights.

The unique three-way tool-less snap-on mounting plate used in T-type hinges offers intuitive hinge-to-plate mounting in three directions: the hinge can be presented to the plate from the front, from the back, or from the top and, with just one sharp tap of the hand, it will click easily and positively into place.

This greatly simplifies door installation especially with tall doors that need four or even five hinges. The unique design of the mounting plate also re-inforces stability and rigidity, whilst maintaining smooth hinge operation.

Another key benefit of T-type hinges is that they need only shallow drillings for the hinge cups, which means that they can be used on doors with thicknesses from 15mm-26mm.

Titus T-type hinges are available in standard and pie-cut versions. They can be supplied with cross-mounting or linear mounting plates that simplify both hinge alignment and hinge-to-plate attachment.

Want to find out more? Visit www.titusplus.com

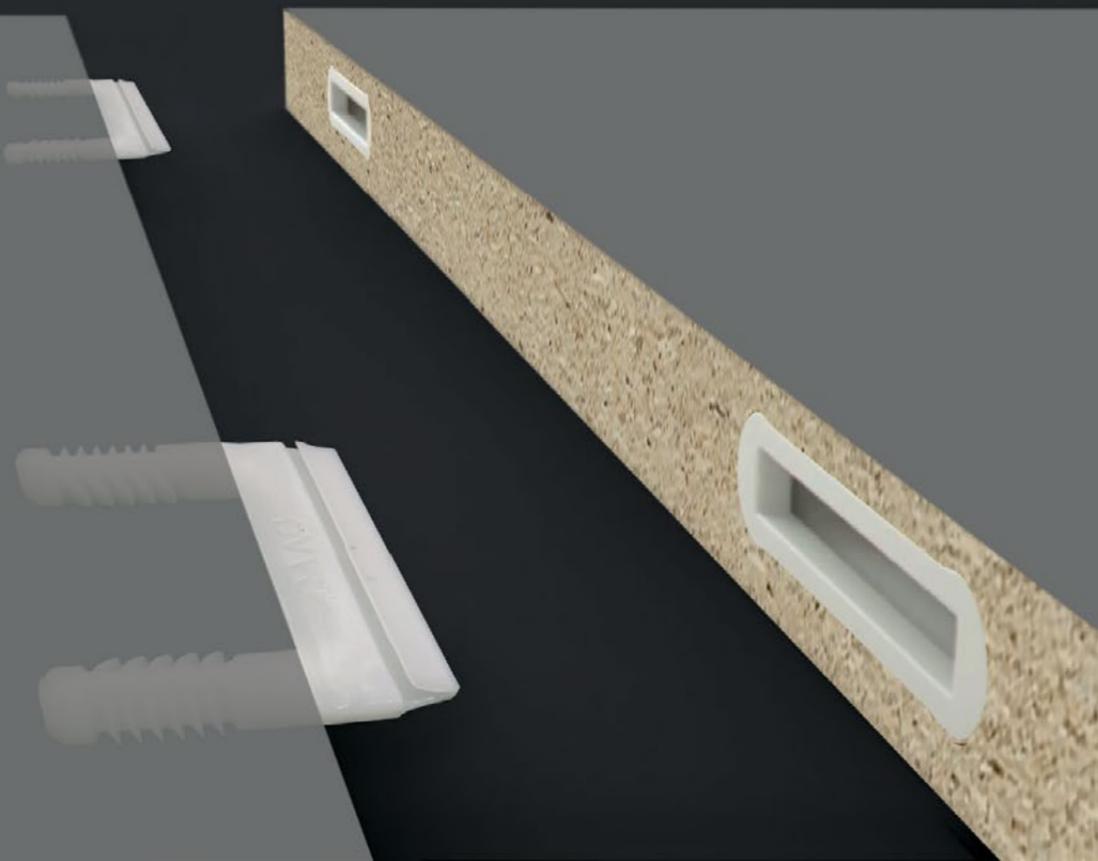


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The screenshot shows the website's header with the title 'INDUSTRIAL WOODWORKING & PANEL PROCESSING monthly trade magazine'. A navigation menu includes 'Home', 'About Us', 'Spotlight On', 'Back Issues', 'Media Information 2020', 'Trade Fairs', 'Rate Card', and 'Contact Us'. Below the menu is a large image of industrial machinery. A semi-transparent box over the image contains the magazine title and two buttons: 'OUR MAGAZINE' and 'RATE CARD'. The main content area features a large 'WELCOME' heading, followed by the text 'to the Industrial Woodworking & Panel Processing Website!'. Below this is a paragraph of introductory text, followed by a quote from John Emslie, the publisher. At the bottom of the page, the website URL 'www.industrialwoodworking.co.uk' is displayed in a large, bold font, and a footer contains the text 'VISIT US AT WWW.KITCHEN-MAKER.CO.UK - ONLINE MAGAZINE - ISSUE 18'.

INDUSTRIAL WOODWORKING & PANEL PROCESSING monthly trade magazine

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INDUSTRIAL WOODWORKING
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OUR MAGAZINE RATE CARD

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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.

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JOHN EMSLIE - PUBLISHER

www.industrialwoodworking.co.uk

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CONTENTS CLEARLY VISIBLE DESPITE BEING SITUATED IN THE CORNER

BLUM'S Space Corner cabinet provides fully extendable drawers in corners. This means that the user has ergonomic access to all provisions being stored in areas which are normally less readily accessible. You can easily see at a glance when anything needs replenishing.

Flexible Orga-Line inner dividers organise interiors and ensure that contents do not spill. High back and side panels keep everything in place.

This corner cabinet can be implemented in different heights and widths - to meet individual requirements. Blum recommends a width of 900mm to 1200 mm.

Full extensions can handle weights of up to 65kg and still have a feather-light glide. They close softly and effortlessly with soft-close Blumotion.

The space corner provides optimal use of corner storage for provisions. Practical full extensions give you easy access to contents.

Orga-Line inner dividers provide clear visibility and help to organise interiors.

High back and side panels make stacking easy. Soft and effortless closing is possible with the aid of Blumotion and there is the opportunity to combine with an electrical, or mechanical opening support system.



Want to find out more? Visit www.modecor.info



MAXIMISE EFFICIENCIES WITH THE HELP OF HESSE LIGNAL COATINGS

HESSE Lignal has developed a range of innovative coatings for wood, metal and glass finishes, helping kitchen manufacturers maximise production efficiencies, while also reducing costs and wastage to build a greener future.

Hesse Lignal wood coatings are ideally suited for all interior applications where a high quality, durable finish is required, such as in the kitchen.

Hesse Lignal is a market leader in Germany for “intelligent” lacquers and stains. Key to the success of this product range is a focus on quality and high productivity.

These premium wood coatings provide the applicator with vast productivity savings in application time and in the number of coats applied to reach required film build.

Also key to Hesse Lignal philosophy is the desire to create products which are environmentally friendly to both the applicator and the end customer.

This desire to create environmentally friendly products is evident with Hesse Lignal’s RS system, which has been formulated without the use of aromatic solvents, such as Xylene and Toluene.

In addition, the extreme low release of formaldehyde is reduced far below the E1 limit (0,1 ppm). This means that, after curing, the lacquer itself is not contributing to the release of formaldehyde in people’s homes - a feature of classic acid-curing

lacquers which release 10-25 times more formaldehyde.

Redwood Innovations is the UK’s leading supplier of coatings from Hesse Lignal, a German manufacturer renowned for its continued efforts to develop coatings that not only deliver a first-class finish on surfaces, but also help kitchen manufacturers reduce waste, protect the Environment and reduce business costs.

As part of Redwood’s Hesse Lignal range, the company stocks a number of highly durable primers, multi-coat and finishing lacquers.

Why Hesse Lignal?

With their impressive drying times, high solids content and pot life, Hesse Lignal products can save kitchen manufacturers significant amounts of time during the production process.

As well as reducing waste with extended pot life, sanding and coating time is also significantly decreased, thanks to a simple range of products with one hardener that can be used in clears, primers and colours.

What is more, as a company committed to reducing its negative impact on the Environment, Hesse’s coatings are formaldehyde-free and free from aromatic isocyanates.

Unlike traditional acid-curing lacquers, Hesse coatings do not contribute to the release of formaldehydes into the Environment,



WOOD COATINGS

therefore ensuring the safety of both sprayers and consumers.

Why Redwood?

Unlike some other coating suppliers, Redwood Innovations goes far beyond the selling process.

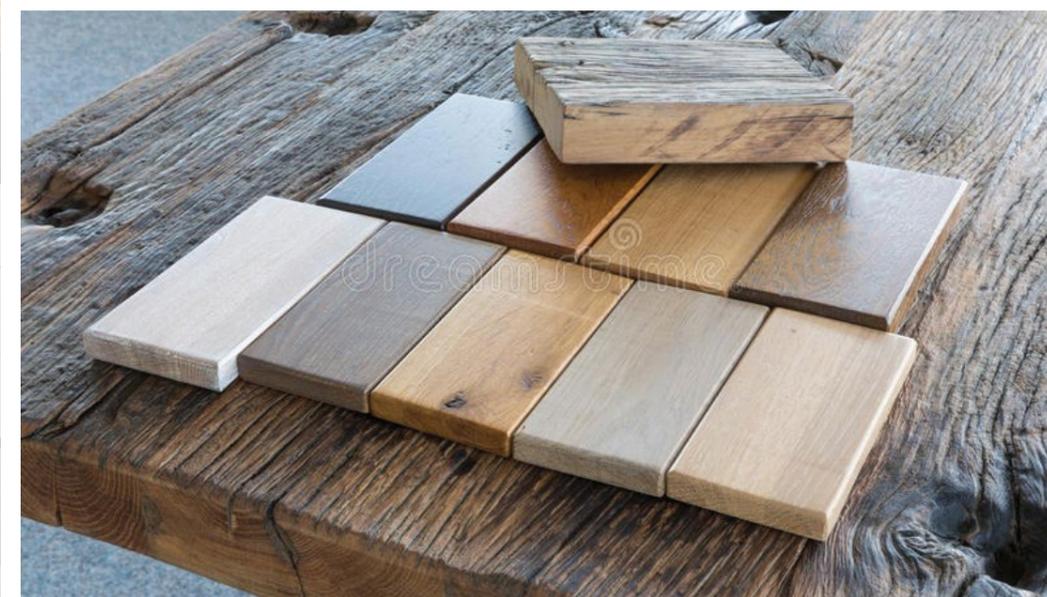
With many years’ experience in supporting kitchen manufacturers,

Redwood can deliver expert technical advice that not only provides the customer with a suitable product recommendation, but also helps them improve the manufacturing process itself.

In addition, all of Redwood’s Hesse Lignal coatings are available for next-day delivery nationwide when ordered before 2pm, providing a first-class customer service experience.



Want to find out more? Visit www.hesse-lignal.de



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