

Issue 325 • Special 2017

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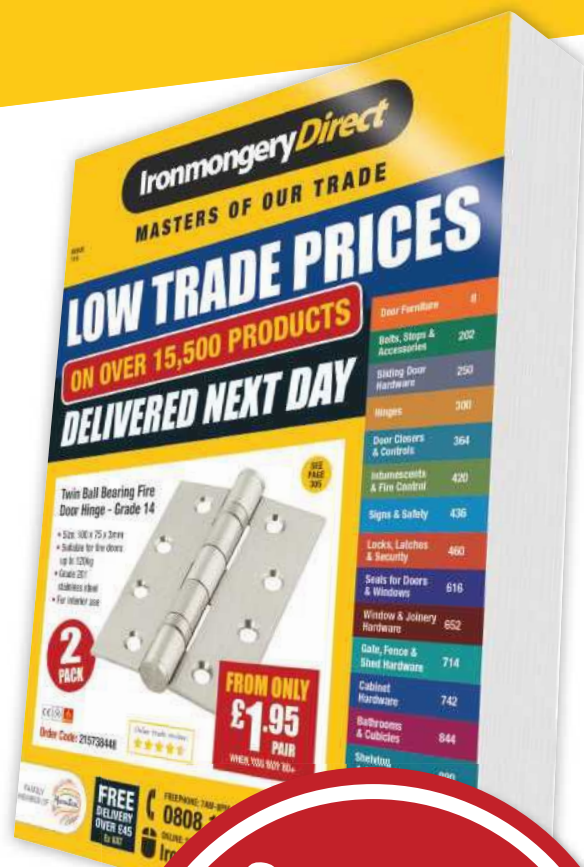
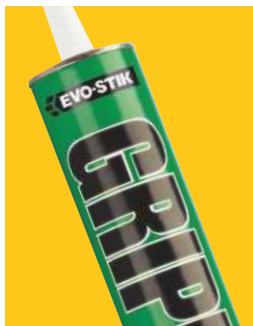
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Welcome

*'Wakehurst –
a tree lover's dream!'*

Seeing how this issue is dedicated to timber, and more specifically, trees, I thought I'd take the opportunity to show you some of the photos from my recent trip to Wakehurst – a house and botanic gardens located in West Sussex, which is owned by the National Trust but used and managed by the Royal Botanic Gardens, Kew. A feast for the senses, Wakehurst features natural woodland and lakes, formal gardens, an Elizabethan house and the 21st-century architecture of Kew's Millennium Seed Bank. The garden covers some 500 acres and includes walled and water gardens, plus a variety of woodland and wetland conservation areas – there really is a great deal to explore and marvel at. While the woodland areas play host to a wide range of exotic and native tree specimens, the highlight for me was seeing the stately giant redwoods, hemlocks and Douglas firs in all their glory. Looking at the photo above, if you squint, you can just about see me at the bottom of the trunk, which should hopefully help to give an indication as to the sheer size of this beast! These giants were certainly that, and I couldn't help but feel humble in their presence.

I could probably write a whole article about the species on show, including, to my excitement,

Pacific madrone with its stunning red bark, coral bark maple with its exquisite russet-coloured leaves, and *Stewartia sinensis* with its unusual cinnamon-coloured peeling bark, but I don't have the space here, unfortunately. If you'd like to find out more for yourselves, see www.nationaltrust.org.uk/wakehurst.

Prizes & expert knowledge

Getting back to introducing our Timber Conversion Special, we're very excited to be giving you the chance to win a Record Power PT260 planer/thicknesser, and we've also got a fantastic array of articles for you, all looking at this specialist subject from a number of different angles. Phil Davy offers advice on how best to transport boards from the timber merchant; John Lloyd tests two differently priced planer/thicknessers and analyses the quality of the results; John Bullar shares a personal timber conversion story; John McMahon looks at woodland management from a woodworker's perspective, and in turning, Les Thorne shows how best to convert green timber into stable, usable projects, plus much more!

So, waste no time in leafing (sorry!) through this issue, learning more about how you can get the most from this fantastic raw material, while hopefully learning a trick or two along the way.

Enjoy!

Tegan

Email tegan.foley@mytimedmedia.com



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Technical &
Consultant Editor



Dave Roberts
Consultant Editor

We endeavour to ensure all techniques shown in Good Woodworking are safe, but take no responsibility for readers' actions. Take care when woodworking and always use guards, goggles, masks, hold-down devices and ear protection, and above all, plenty of common sense. Do remember to enjoy yourself, though



IMPROVE YOUR
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FROM TREE TO TABLE

John Bullar shares the story of
how he converted an apple tree
into a stunning occasional table

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thicknesser – worth £649.99!
See pages 20-21 for further details



Good Woodworking

Timber
Conversion
Special – 325

• TOOLS • PROJECTS • TECHNIQUES • ADVICE

TECHNICAL

SOLUTIONS 24 Oliver!

A theatrical production sets Dave Roberts reviewing the situation – or at least wood's ability to transform and be transformed

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Phil Davy shows you how to remove old polish and varnish



30 Buying & transporting timber

Phil Davy discusses the things to look for when buying both soft- and hardwoods from a timber merchant, as well as offering some great tips on getting boards home and how best to transport sheet materials

PLANER/THICKNESSERS 49 How to dimension timber accurately using a planer/ thicknesser

Most woodworkers, whether amateur or professional, will invariably at some point need to use a planer/thicknesser. We explore the reasons for this here

60 How to avoid planing peaks & troughs

Peter Bishop talks you through the process for correctly setting a planer/thicknesser and suggests reasons why you might not be getting the best possible cut

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Peter Bishop provides some guidance on choosing the correct grade of timber to use and suggests various ways in which this might impact on your projects

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Mike McCrory uses stunning pieces of bird's eye maple and book-matched walnut to create a jewellery box complete with various interior trays

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80 Converting green timber into functional projects

Les Thorne demonstrates the different types of turning projects that can be made using fresh, green timber

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Edward Hopkins fashions a wooden niche – a small space inviting occupation – to mark the arrival of his grandchild

CENTREFOLD 46 Timber suppliers UK

A comprehensive alphabetical list detailing the wide range of timber suppliers across the UK, as well as the services each one of them offers

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50 Reconnecting with trees as a raw material

John McMahon describes his attempts to reconnect with trees as a raw material and in the process gives an outline of the past, present and future of woodland management from a woodworker's perspective

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76 A passion for timber

Garry and Shaun Stevenson share the story of how a passion for quality raw materials led to the development and continued growth of their business

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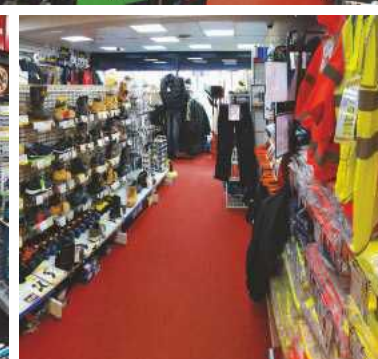
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TIMBER CONVERSION ACCESSORIES

Roughneck Timber Lok

The Timber Lok from Roughneck lifts materials off the ground and holds tightly to ensure you can safely measure, cut, drill and finish projects at work, on site or in the home. It increases safety and productivity, instantly holding timber fast and tight. Lightweight and durable, it is very portable, easy to use and store. It features an integrated measuring rule, and the cut-outs tightly hold most materials. Priced at £25.22, see www.axminster.co.uk.



Roughneck Logger's Mate

The Roughneck Logger's Mate is a lightweight yet sturdy saw bench that packs flat for easier storage and transportation and can be erected and dismantled in seconds. The Logger's Mate has a vice-like grip to hold logs and timber at the perfect height for cutting by a chainsaw or bow saw. It is ideal for cutting logs, branches, timber, fence posts, beams etc. and can hold logs and timber from 50mm to 240mm in diameter and up to 4m in length. Maximum timber weight is 150kg. Priced at £78.36, see www.axminster.co.uk.



Roughneck Gorilla Gripper

The Roughneck Gorilla Gripper offers a safe and easy way to grip, lift and carry all types of sheet materials, doors and worktops. Made from aircraft quality aluminium with special rubber gripping pads, the soft-grip cushioned handle features three available sizes (up to 19mm, 10mm to 28mm, and 32mm to 50mm) to handle the majority of board and door thicknesses. It significantly reduces stress and potential injuries to your back, shoulder, neck, hands and fingers, and is a must-have product for those handling large cumbersome boards and doors on a daily basis. Priced at £32.08, see www.toolstation.com.



Keson Timber Marking Crayons

These clever crayons from US brand Keson are designed to work on any surface, including wood (wet or dry), metal, concrete, ceramics, etc. and also have the benefit of being waterproof, weather and wear resistant. The entire crayon is usable and won't crumble under use, so if you need a heavy-duty timber marker then this one won't let you down. The crayons are available in a range of four colours (blue, black, yellow and red) and are supplied in singles or packs of six. Priced from £1.38-£7.04, see www.axminster.co.uk.



Heavy-duty roller ball stand

The heavy-duty roller ball stand from Axminster combines several features in one unit. Constructed from a combination of 50mm diameter round and square steel tubes, you have a choice of either a 330 long x 60mm diameter roller (ball-bearing mounted) or a row of eight balls, to allow for all-round movement of sheet material. Roller height is adjustable over a range of 735mm-1,120mm and the telescopic stem locks in position with a very solid knob. A unique wedge lock ensures the roller setting will not vary, making it suitable for heavy baulks of timber. The whole unit folds flat for storage; maximum capacity is 200kg. Priced at £74.56, see www.axminster.co.uk.



Axminster Trade sawhorses (pair)

These unique all-steel, folding sawhorses from Axminster are immensely strong, durable and highly portable. Constructed of high-grade steel, each sawhorse can support a weight of 590kg; a pair has a capacity of 1,180kg. With their fast-open mechanism, setup is straightforward and simple. Unfolding the sawhorse reveals a material support arm at each end, which is designed to take 95mm high timber. In order to achieve a secure fit with the jaws the timber width should be trimmed to the required size. With two sawhorses, a couple of lengths of trimmed 45 x 95mm C16 grade timber and a suitable sheet of ply or OSB, you can create an instant, rock solid site worktable. The sawhorse legs are telescopic, allowing you to adjust each one individually to compensate for any unevenness on the ground. Also fitted with rubber non-marking feet, powder coating and zinc plating protect the sawhorses from corrosion and ensures a long life in a working environment. The legs fold neatly and sequentially into the top rail, forming an 84 x 150 x 895mm long package, which is easily stowed in the back of a van. The sawhorses include a carry handle for easy transportation and rolled edges mean there are no sharp corners. Priced at £89.96, see www.axminster.co.uk.



Guide Block set

These three very useful pressure pads are fitted with foam bases and can be used to safely guide timber through a saw bench, planer or spindle moulder, keeping the fingers well clear of the sharp parts. They can also be used as handles on jigs where moving parts pass close to the blades or cutters. Used in either way, they really help to keep fingers out of the line of fire. The set consists of two 150mm pads with different handle designs and a 300mm long version with a plane-style handle and knob. Priced at £18, see www.axminster.co.uk.



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& Woodturner

at The North of England Woodworking & Power Tool Show

Come and see us in action at the upcoming North of England Woodworking & Power Tool Show at the Great Yorkshire Showground in Harrogate, from 17–19 November. The Editor will be there throughout the three days to answer your questions, have a friendly chat, or, if you don't already, offer you the opportunity to subscribe to one or both of our great magazines (of course, we also have a fantastic show offer available). *The Woodworker* Editor Mark Cass' bench caddy, which he made in the September issue, will also be on display in the flesh, so you can come and see for yourselves how this useful workshop aid is made. We also have two amazing prizes up for grabs courtesy of Bosch, where we're giving you the chance to win one of their GHO 12V-20 Professional compact planers or a GKF 12 V-8 Professional compact router. Come and see us on the stand, enter your details, and at the end of the weekend we'll be announcing the two lucky winners. Also, leading up to and during the event, keep checking our Facebook page (www.facebook.com/getwoodworking) for regular show updates. To find out more about the show and to purchase advance tickets, see www.skpromotions.co.uk.



Be in with a chance of winning a Bosch GKF 12 V-8 Professional compact router...



... or one of their brand-new GHO 12V-20 Professional compact planers



Come and see Mark Cass' bench caddy in the flesh

New range of SABRE bandsaws from Record Power



The Record Power SABRE range of bandsaws are the next evolutionary step from the highly regarded and market-leading Record Power premium bandsaws. They have built on the success of their premium range by introducing some fantastic new features to the SABRE-350 to make a bandsaw that is more effective, accurate and easier to use than any other machine in its class. Featuring an 1,100W output motor coupled with the heavy-duty cast-iron band wheels, the SABRE-350 packs a real punch and can handle cuts to its full capacity with ease. The two speeds, which are slightly faster than comparable machines, make it ideal for cutting non-ferrous metals as well as wood. The cam-action fence adjustment, spring-loaded guides, cam-action blade tension release and double-sided fence mount make this a machine that is so easy to set up and use it leaves you free to concentrate fully on the project at hand. The SABRE-350 stands on a sturdy cabinet base, giving plenty of storage beneath the machine to help keep the workshop tidy. The resaw bar, which is easily attached to the fence, is included as standard. This is ideal when sizing long pieces of timber as this can be pivoted to compensate for grain variations, helping to achieve straighter cuts than would be otherwise possible. The SABRE-350 is a beautifully designed machine, boasting class-leading levels of performance and ease of use. The SABRE-350 is priced at £899.99 and the SABRE-450 at £1,399.99; see www.recordpower.co.uk.

Clarke Log Buster 7

The Log Buster 7 from Machine Mart is the ideal domestic log splitter for the autumn/winter months. Perfect for splitting logs up to 370mm long and 250mm wide, this handy tool is perfect for tree logs found in most domestic gardens and can be easily operated using a two-handed system and ram lock for increased safety. Don't worry about carrying this splitter around in the icy conditions either because it is fitted with two wheels and a pull handle for easy transportation, and a handy LB7S stand accessory can also be purchased exclusively for this model (priced from £35.98) to bring this splitter to working height. The ram stroke can also be shortened to perfectly split different types of logs with a new depth stop feature, and with an extra strong welded steel frame, you can guarantee that this piece of kit will serve you well for years to come. Priced from £203.98, see www.machinemart.co.uk to find out more about this and other available accessories.





Makita launch unique cordless & Brushless LXT router/trimmer

The Makita range includes mains and trimmers but the new DRT50 is an 18V cordless machine that combines the key elements of both tools, and it's thought that this router is unique in the marketplace.

The low energy, high performance Brushless motor runs between 10,000rpm and up to 30,000rpm with variable-speed by control dial, and features a constant speed control.

Adding to the versatility of the new DRT50 are two available collet sizes ($\frac{3}{8}$ in and $\frac{1}{4}$ in), while alternative bases offer a 0-40mm plunge capacity with the trimmer base, and 0-35mm with the plunge base. Three different model options are available, with varying extras incorporated, including tilt base, offset base, straight guide and trimmer guide. A spindle lock and dust extraction nozzle are supplied as standard with all three versions.

Powered by the established Makita 18V Lithium-ion battery mounted on top of the machine for perfect balance and control, the machine housing and base are aluminium, contributing to the router's light weight at just 2.1kg and providing greater durability and accuracy. It also has a non-slip elastomer-covered body grip for increased operator comfort.

The machine fits easily into the alternative bases and is retained by a simple and efficient base lock system. The aluminium trimmer base has an enlarged opening section for exceptional bit visibility and a replaceable non-marring plastic baseplate for smooth movement. The tilt base provides tilting capacity from 30 to 45°, and the plunge base has two ergonomically contoured plunge control handles for comfort and accuracy and an easy-to-operate lock lever. The offset base enables close trimming with the bit set in the offset position to just 18.5mm to the wall or corner.

The new DRT50 18V LXT Brushless router/trimmer is available as body only with trimmer base and straight guide in a Makpac case; as a body only with trimmer base, straight guide and trimmer guide packaged in a carton box; or as body only with trimmer, plunge, tilt and offset bases, plus straight and trimmer guides, all supplied in a convenient and durable Makpac case. Priced from £225.60 (body only inc VAT), see www.makita.uk.com for more info.

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4-5, 7-8 & 7-8* Beginners' woodturning

4-5 Introduction to milling

5-8 Make a side table

11-15 Make a Windsor chair

13* Sharpening with Tormek Woodturning

15* Scrollsaw course

* Course held in Sittingbourne, Kent

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11 Green wood spoon carving

15-17 Woodturning – bowls with texture

18 & 19 Make a small turned bowl

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9-10 Dovetailing weekend

29 Half-day woodwork taster

30 Half-day marquetry taster

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11-15 Skills week: Sharpening & essential cabinetmaking hand skills

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3 Intro to spoon carving

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11-15 Furniture making for beginners

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18-19 Safe operation of wood machines

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CLARKE WOODBURNING STOVES

keep your workshop warm this winter



What can beat the warmth and ambiance of a real fire in your workshop throughout the cold winter months? Clarke cast-iron woodburning stoves are the ideal solution. The best selling Buckingham model (pictured here) is a classically designed multi fuel stove, which is suitable for efficiently burning wood and coal. The Buckingham has a maximum heat output of 6kW, featuring an air wash system that helps keep the glass clean, and air control to alter burn rate and heat output. Priced at £238.80, see the full range of woodburning stoves on the Machine Mart website: www.machinemart.co.uk.

Bosch introduce new Professional compact router

The world's first cordless compact router in the professional market and brand-new from Bosch, this exciting model features excellent ergonomics and safety, including drop detection. It also benefits from long runtime and lifetime, thanks to brushless motor technology.

In addition, optimised ergonomics allow for one-handed use, and with an extremely low size and weight it features a uniquely small grip circumference and ideal hand positioning. You can also expect safe and comfortable tool guidance, thanks to a new bit-to-tool formation and enlarged footplate contact surface, as well as perfect depth control with smooth and fast macro depth adjustment, easy fine adjustment, and lockable depth settings. Health and safety considerations have also been factored in, thanks to a drop detection sensor system that shuts off the tool if it falls, and finger barriers prevent unintentional contact with running bits.

As well as all this, there is a high-powered, highly energy-efficient brushless EC motor; spindle lock for easy tool-less bit change; compatibility with the Bosch accessories range, including 8mm, 6mm and 1/4in collets; and this tool is also fully compatible with the comprehensive Bosch 12V Li-ion power tool range.

The new GKF 12 V-8 Professional compact router is now available from specialist retailers with an RRP from £166.80; to find out more, see www.bosch-pt.com.



Mafell MT55 18V cordless plunge saw

The Mafell MT55 18V cordless plunge saw is a totally unique sawing system that allows you to cross-cut, mitre, compound mitre, plunge and cut panels. The MT55 can therefore be used for various jobs; it's certainly a jack of all trades.

The Mafell features a scoring function that is quickly activated in one single movement, and it can also cut visible edges as cleanly as a stationary machine. This can be achieved even when the splinter guard is worn. The MT55 can also execute clean cuts with supreme precision and without any tearing. Featuring the world's fastest blade change facility, you can expect to find dual indicators for use on or off the guide rail and the MT55 also has the benefit of being compatible with other guide rail systems. There is a fine adjuster for precise setting after blade change or resharping as well as greater power due to its high-performance CUprex compact motor. All in all, this is a premium quality machine that is designed to last. Priced from £709; see www.nmatools.co.uk for more info.



NEWS IN BRIEF

Charnwood Woodworking Machinery will be appearing at Toolite's in-store show from 1–2 December at their premises in Gloucestershire, before making their way to Joe McKenna's in-store show in Limerick, Ireland on 2 December. Both events benefit from free entry and parking. More information can be found here: www.charnwood.net/events-and-shows/upcoming-events

A brand-new demonstrator at this year's North of England Woodworking & Power Tool Show is Chris Tribe, who will be showing attendees his techniques as well as selling copies of his book *Complete Woodworking*. If you do want to meet Chris and learn more about what he does, you'll find him on stand 154. In the meantime, further information about courses and his work can be found on his website: www.christribefurniturecourses.com

The Wood Furniture Design Workshop (18–19 November 2017), run by London Sculpture Workshop (Thames Side Studios, London), will explore a variety of effective construction techniques using easily available tools, materials and processes accessible by beginners, artists and craftspeople alike. Focusing on designs such as the 'Crate' or 'Sedia' chairs, learn how to make your very own piece of furniture. Instruction will be provided to complete at least one of several functional furniture items and will explore the highly inventive techniques in Enzo Mari's AutoProgettazione and Rietveld's crate series, which are adaptable to a myriad of personal projects for versatile, economic and sustainable constructions for art or design. Priced at £173 for the two days; see www.eventbrite.co.uk

New microsite for self-adjusting toggle clamps

BESSEY is providing an extensive range of information on self-adjusting toggle clamps on its new microsite, which can be accessed in 11 languages. Designers, craftspeople and buyers can find technical details and interesting facts about the unique range of accessories as well as exciting excerpts from the history of the range.



The microsite has been launched to mark the fifth anniversary of its STC self-adjusting toggle clamp range and is designed to inform visitors about the benefits of these special-purpose toggle clamps, which can adapt automatically and in a continuously self-adjusting manner to workpieces of varying thicknesses. What's more, the microsite provides detailed descriptions of the horizontal, push/pull and vertical toggle clamps, which are equipped with self-adjusting mechanisms, covering all relevant information. These include, for example, images of the toggle clamps in practical use, brief descriptions with references to the baseplate versions as well as technical data sheets and downloadable 3D CAD data. The variants that feature a horizontal baseplate also include links that take the user straight to matching accessories. In this way, the range of advanced

application possibilities involving BESSEY toggle clamps and welding or multi-function tables is clear to everyone.

The new microsite also provides an exciting insight into the evolution of BESSEY products, as well as including additional links to a distributor search and the full BESSEY product range. You can visit the microsite here: <http://toggleclamp.bessey.de>.



New Trend Snappy Drill Countersink Rotating Depth Stop

Making consistent, controlled countersinks couldn't be easier, thanks to the new Trend Snappy Rotating Depth Stops. Designed as a retrofit to the Trend Snappy Carbon Steel 9.5mm and 12.7mm Countersinks (not suitable for TCT countersinks), they feature high quality, precision ball-bearings within the stops for a free running action that helps to minimise marring as the stops contact the surface of the workpiece. A specially designed clamping bolt secures the stop at the required depth for either countersinking or counterboring tasks while a large cavity within the stop helps reduce clogging as it cuts. The SNAP/ROT/DS is priced at £20.34 inc VAT and is available from all Trend Routing Centres and stockists across the UK; see www.trend-uk.com.

FREE READER ADS

DeWalt DWS520 240V plunge saw – two tracks, pair clamps, joining rail & T-square attachment; £175
01322 526 897 (Kent)

Rema DMXA table saw; 3hp motor; 12in blade; 45° tilt; comes with extension table and 2 re-tipped TCT blades; £100 ONO
01371 870 792 (Essex)

Triton Workcentre WCA201 series 2000 & Triton TA235CSL precision power saw and blade height winder – assembled but never used; £420
07811 510950 (Dorset)

Yew logs – 5-7in dia. x 3-4ft long; £5-10 each. Mahogany, 1½ x 1½in sq. x 18-24in long; £1 each
01388 832 342 (Durham)

Multico-Pro-Mex TWL 1000 woodturning lathe – in good condition; £250
07716 994 616 (Derby)

Metabo BAS 317 precision bandsaw – in good condition; £100
07716 994 616 (Derby)

Scheppach TS 2010 table saw with side extension, sliding table, outfeed table and stand – in good

condition; £350
07976 692 359 (Twickenham)

Record PT260 planer/thicknesser with dust extractor; £225. Also, Trend router table & DeWalt 625 router with various bits; £200
01444 246 922 (West Sussex)

Air-dried elm – 2in thick x 21 x 21in; £20 each for Windsor chairs, etc. collection preferred
01704 575 523 (Southport)

APTC M950 lathe – six-speed, plus many extras including two chucks and revolving centres –

in very good condition; call for details; buyer collects – £499
01284 705 656 (Bury St Edmunds)

Woodturning workshop contents for sale – including lathes, bandsaw, pillar drill, plus lots of hand tools and wood for turning
01628 628 147 (Maidenhead)

For sale – various Woodworker magazines from 1946–2013. All are in pristine condition. A wonderful collector's item – please call to make an offer; collection only
07847 394 507 (Derbyshire)

Send your adverts to: tegan.foley@mytimemedia.com



David & Goliath

Planer wars

John Lloyd gets to grips with two differently priced planer/thicknessers and analyses the results – what do you really get for your money and is it worth the extra outlay?

I realise that this test, pitching a relatively small Record Power planer/thicknesser against a big, powerful Felder, might seem like a bit of a David & Goliath situation.

But a machine with tables the length of Brighton Pier and a motor so powerful that it can make the lights dim when fitted with huge moveable tables, does come with its own set of problems, so maybe this won't be such a one-sided affair.

Combination machines, which obviously include a machine that 'planes' and 'thicknesses', might be thought of as a bit of a compromise – separates are always preferable – but where space (and money) are at a premium, a combination is often the only option, which is

certainly why I have one. The compromise is often that changing from one function to another is time-consuming and inconvenient, but it can also introduce an element of inaccuracy, particularly if you're shifting big, heavy bits of cast-iron around as part of the process, and the bigger and heavier the moving bits are, the bigger the potential problem – could this be Goliath's Achilles heel?

Record Power PT107

This is a compact, sturdy looking machine, which, after assembling the guard and fence and fitting the optional wheel kit, is ready to plug in, with its standard 13amp plug, then it's ready to go. I have already spent way too much of my woodworking life setting planer blades, so for my machines I have always opted for the self-setting option of either a Torsa cutterblock or, more recently, the Felder system. Slightly odd translations in instruction manuals are often part of the joy of buying imported machines, but when they're factually incorrect on important areas like setting blades, it's really not terribly helpful.

Setting the blades

According to the PT107 manual this machine has blade holders with jack screws setting the height of the blades, which is encouraging, but in practice the blades are sitting on springs and the height of the blades is set using a single, small 'cutterblock gauge', which straddles the cutterblock, and a 10mm spanner – sadly

not a recipe for fool-proof, accurate, trouble-free results, although I notice that Record offer a rather more sophisticated magnetic blade setting system on their website, which could be worth looking at. Getting all three blades set accurately, so they're all sitting at exactly the same height and consequently all doing the same amount of work, is crucial if you require consistently good results from your planer, but this system, as it stands, might end up being rather time-consuming. Another vital setting on any planer is the relationship between the outfeed table and the knives. The general wisdom is that the knives should be set just a fraction above the height of the outfeed table, and this should be consistent across the width of all three blades – something that can be checked with a 'drag test'. In the manual, it states that 'the height of the outfeed table is factory set', but unfortunately the factory have set the tables rather too low, much better than being too high, but the result of this is that accurate planing isn't possible and there will always be a rather annoying deeper scoop ('snipe') at the end of every cut. But all is not lost, as the manual tells me that it is possible to adjust the outfeed table: just loosen the two lock nuts inside the plastic handle and use the handle to adjust the table height. I have a pretty comprehensive tool kit but it doesn't include anything that will reach the second nut nestling deep in the plastic handle, so actually all is lost for the moment.



Interesting positioning for the power cable; tucked round the back might be better



Accurately setting the PT107's blades with the single 'Cutter Block Gauge' can be a bit of a challenge



It's easy and quick to change from planing to thickening with one hand



Nice sturdy hinges and a simple, effective adjuster for the chunky cast-iron planer tables



Thicknesser adjustment is achieved using a standard winder handle. Half a turn = 1mm



Single pillar support for the thicknesser table, which should be locked after each adjustment



The thicknesser produces a really good finish and will happily handle more than one workpiece

Changing from planing to thickening

How easy is it to change from planing to thickening? Just move the guard all the way forward and slide out the fence assembly, undo the table catches, lift each table – which despite being cast-iron are light enough to lift easily with one hand – then, flip the dust extractor hood over, set the table height, engage the feed rollers and you're away. All the tables are cast-iron, flat and nicely finished; the fence is extruded aluminium, as is usually the way these days. This material is rarely completely flat, and this one is no exception, although it is certainly acceptable.

Conclusion

So in general, within the limitations of the accuracy that you can achieve on long components with relatively short tables, and the limited width (258mm), this is a nice little machine that's solidly built, and the thicknesser produces very nice results. It just needs a little

time spent setting it up, a long reach socket and a better system for setting the blades. With a Tersa cutterblock as an option, this machine could be very quickly transformed from 'not bad at all' to 'really pretty good and very user friendly'.

Felder AD 941

If you're familiar with Felder, you'll know that they are Austrian and have various levels of machinery, ranging from Hammer at the bottom end, to Format 4 at the top. The AD 941 is just one level below Format 4, so we should expect great things from it. What would I expect from this machine? Well, I've already experienced a Hammer (A3-31) and a Felder (AD 741), so I was familiar with the make and expected the sort of things that you get from a Felder planer/thicknesser: build quality, accuracy, fast no-fuss blade changing, and good support from their UK centre in Milton Keynes. For me, running a business with up to 15 people regularly wanting

to use machinery, means that durability and accuracy are vital. All machines go wrong and need a bit of love occasionally, but with engineers just up the M1 and replacement parts available from Austria with next-day delivery, if things go wrong they get fixed quickly, which is a really big attraction for me.

A closer look

This machine is twice the length of the Record and more than one and a half times wider, which should potentially give much greater accuracy when planing longer components. The trick here, though, as I alluded to earlier, is to ensure that the huge, heavy tables that are regularly raised and lowered by a bunch of woodworkers who always seem to be in a hurry, always go back to the same position, stay parallel to each other and remain perfectly adjusted – not an easy trick to pull off but something that it manages to do, with occasional minor adjustments, many times every day. >



The long, wide tables on the AD 941 give excellent, accurate results on long, wide pieces of timber



Lifting and lowering a pair of huge tables is surprisingly easy when big, powerful springs are helping



Everything about the AD 941 is robust and nicely engineered



Meaty hinges and Felder's 'prism' table adjusting system all help maintain planer accuracy



The spiral cutterblock is a real game changer. Changing the blades is a bit of a fiddle but accuracy is guaranteed and the quality of the cut is exceptional



'Power Drive' electronic table height adjustment is a bit of an indulgence but it guarantees repeatable accuracy to 0.1mm



The cutter guard behind the fence is a flimsy collection of bent metal and nuts and bolts – very disappointing on a machine of this quality

Specification:

RECORD POWER PT107

- ▶ **Thicknesser feed rate:** 5m/minute
- ▶ **Cutterblock knives:** Three
- ▶ **Cutterblock diameter:** 75mm
- ▶ **Maximum thicknessing height:** 190mm
- ▶ **Maximum thicknessing width:** 265mm
- ▶ **Maximum thicknesser depth of cut:** 2mm
- ▶ **Maximum planing width:** 265mm
- ▶ **Maximum planer depth of cut:** 3mm
- ▶ **Planing table length:** 1,110mm
- ▶ **Motor input P1:** 2.2kW
- ▶ **Motor output P2:** 1.69kW
- ▶ **Weight:** 162kg
- ▶ **Overall plan size:** 1,100 × 480mm
- ▶ **Typical price:** £1,099.99
- ▶ **Web:** www.recordpower.co.uk

THE GW VERDICT

- ▶ **PROS:**
Compact; accurate cast-iron tables; easy change from planing to thicknessing; very good results achieved when thicknessing with the three-blade cutterblock and slow feed rate
- ▶ **CONS:**
Potentially tricky, time-consuming blade changing/setting; accuracy compromised on longer pieces
- ▶ **RATING:** 4 out of 5

Specification:

FELDER AD 941

- ▶ **Planing width:** 410mm
- ▶ **Planer table length:** 2,200mm (4,000mm)
- ▶ **Cutterblock:** Self-aligning blades (optional Silent-POWER spiral cutterblock)
- ▶ **Thicknessing height:** 3-254mm
- ▶ **Feed speed:** 6 + 12m/min
- ▶ **Thicknessing table control:** Power-Drive (optional)
- ▶ **Weight:** 610kg
- ▶ **Overall plan size:** 2,300 × 730mm
- ▶ **Typical price:** £8,988 (with Silent-POWER cutterblock)
- ▶ **Web:** www.felder-group.co.uk

THE GW VERDICT

- ▶ **PROS:**
Long, wide planer tables produce accurate results for long, wide workpieces; sturdy; plenty of power; Spiral cutterblock produces an excellent finish with minimum tear-out, even on difficult timber... quietly
- ▶ **CONS:**
Big bits of machinery are space hungry and expensive; regular maintenance and minor adjustments likely to be required for continued accuracy; for single phase, requires a separate 20amp supply
- ▶ **RATING:** 4.5 out of 5

This all requires some very substantial, accurately machined lumps of cast-iron, huge hinges and muscular springs; it's an impressive bit of engineering, and these don't come cheap. Another reason for buying this machine was to upgrade the cutterblock to 'Silent-POWER'. Although this is actually a feature available across the Felder/Hammer range, this spiral cutterblock, with its 63 four-sided tungsten carbide blades, is a real game-changer. The name is slightly misleading: if you're expecting 'Silent' you'll be disappointed, but 'quite a bit quieter power' doesn't have quite the same ring to it. In any case, the huge benefit is the quality of the cut: the shearing action from the many little blades set in a spiral formation keeps tear-out on difficult timbers to a minimum and the blade life is really impressive.

Changing blades & other features

Changing blades is not that quick: each blade has to be removed, cleaned, turned, and carefully tightened back into place with a torque screwdriver. Accurate adjustment just isn't an issue; the blade heights will be perfect, it's just that it has to be done 63 times on this machine, but thankfully not very frequently. Other features on this machine? The planer tables are lifted together, luckily with plenty of spring assistance, and the thicknesser table is raised and lowered electronically – an optional extra, which I love, but which is hardly vital. It's not that arduous to wind a handle, but having repeatability to an accuracy of 0.1mm can be really handy. The Felder's table is supported on all four corners, which means the table doesn't require locking on each adjustment, unlike the Record, which has a central post. There are two feed rates available, but we always use the slower speed for hardwoods, which is about the same as the Record's single speed. The fence, which is mounted on the end of the infeed table to save space behind the machine, is pretty sturdy and works well but the collection of bits of bent metal that guard the cutterblock when the fence is pulled forward is not, I'm afraid, Felder's finest hour on an otherwise very nicely engineered machine.

Conclusion

If you need a machine to produce large, long wooden components to very fine tolerances and in great volume, while putting up with multiple users, you are likely to need to spend quite a big chunk of money and the AD 941 will do a great job for you. But for many amateur and professional users a large machine, such as the Felder, can't even be an aspiration if there's no space or budget for it. The robust PT107 would be great for a smaller workshop and making on a smaller scale, as the thicknesser produces a very good finish, but it would really benefit from a more sophisticated cutterblock/blade setting arrangement. Ultimately, though, it's difficult to ignore the fact that spiral cutterblocks, such as Felder's 'Silent-POWER', are now available, and they produce amazing results. **GW**

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Freehand cuts made easy

Capable of fast and precise cutting, the EasyCut 12 is the world's first general-purpose saw complete with 'NanoBlade', a saw blade with a surrounding micro-chain

Every now and again a power tool comes along which appears quite radical. While the principle of using a chainsaw for accurate vertical cutting is not new – think of chain mortisers – a miniature version that's hand-held is quite an innovation. Bosch refer to the EasyCut as a cordless mini-saw, though it's effectively a small chainsaw, the miniature teeth rotating around a steel guide bar. It's something of an all-rounder, designed for DIY and gardening projects, but how useful is it for the woodworker?

Nano technology

As part of Bosch's Power For All 12V system, the 2.5Ah battery is interchangeable. One Li-ion pack

is supplied, along with a 100 minute charger. The tool features a Syneon chip, which manages battery efficiency and adds protection.

Weighing 0.9kg, the EasyCut feels sturdy without being too heavy, with soft-grip rubber to lessen vibration. To activate the large trigger you first depress a lock-off button, accessed from either side. An LED glows red or green to indicate relevant battery level. Sawing speed is easy to control via the trigger, with a maximum of 4,100rpm.

The micro chain has 44 tiny teeth that rotate around the guide bar, which Bosch refer to as a 'NanoBlade'; this features automatic tensioning, with no adjustment or sharpening possible. In fact, the only maintenance required is to

brush away sawdust regularly.

With tool-free blade change, this is as quick as you'd expect with a jigsaw. You flip up a red locking lever to release the hinged cover, lift out the blade and replace, if necessary. A plastic guard is included to slide over the blade, though you could wear lightweight gloves instead. The bar locates over a toothed steel shaft, which is driven by the motor, the chain travelling around this.

With a fixed steel baseplate, no bevel cuts are possible and, like a chainsaw, you can only make straight cuts. There's a notch at the back of the baseplate to help align the tool with a pencil mark. Maximum cutting depth is 65mm.

Safe sawing

You'd assume the strap attached to the handle is a wrist loop, though Bosch warn against this. Described as a 'suspension strap' it's meant for storage purposes, though I found it got in the way and simply removed it.

So, how safe is the EasyCut? While you wouldn't want to get your fingers near the moving teeth, it's no more risky than using a jigsaw. To check out the EasyCut's capabilities, I made a series of cuts in softwood, oak, OSB and plywood. Cutting was slightly ragged on the solid timber top surfaces, but that's to be expected. Cuts were square, though, leaving a clean surface underneath.

I found it tricky to follow a pencil line for precise cutting as there's a rapid build up of sawdust around the blade from the start. A batten acting as a guide fence improves accuracy on thicker material. Plunge cuts are straightforward and fairly clean in man-made boards, so you could make worktop cut-outs without first drilling holes for a jigsaw blade. Kerf width is 2mm.

Away from woodworking it's great for cutting rigid plastic pipes cleanly, which can be awkward with a hacksaw. In the garden it's pretty efficient when cutting small branches and logs. It's fairly quiet and less intimidating than a recip saw, though it's not designed for demolition work.



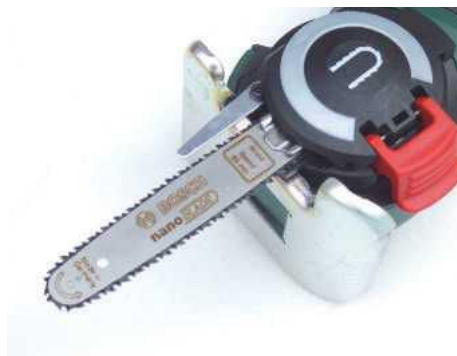
As part of Bosch's Power For All 12V system, the 2.5Ah battery is interchangeable



One Li-ion pack is supplied, along with a 100 minute charger



To activate the large trigger you first depress a lock-off button, accessed from either side



The micro chain has 44 tiny teeth that rotate around the guide bar, which Bosch refer to as a 'NanoBlade'



You flip up a red locking lever to release the hinged cover, lift out the blade and replace, if necessary



The bar locates over a toothed steel shaft which is driven by the motor, the chain travelling around this



With a fixed steel baseplate, no bevel cuts are possible and, like a chainsaw, you can only make straight cuts

Conclusion

A plastic storage case is included, plus a three year warranty when registered. The EasyCut's downside is the cost of replacement blades. Unlike a jigsaw, Nano blades are pricey at over £30 a time. And there's no real way of knowing how long teeth will remain sharp, though this depends on what you're cutting. A 44-tooth blade with 65mm depth capacity is included and gives a fairly fine cut. Other blade patterns have slightly coarser teeth and are limited to 50mm depth.

This is a unique power tool, that's perhaps better for outdoor use than for precision cutting in the workshop. Remember that the EasyCut is a DIY saw and not intended as a pro tool. It's available without a battery for around £100. **GW**



Following a pencil line for precise cutting is tricky as there's a rapid build up of sawdust around the blade from the start

Specification:

- ▶ **Battery voltage:** 12V
- ▶ **Cutting depth in wood:** 65mm
- ▶ **No-load speed:** 0-4,100rpm
- ▶ **Weight:** 0.9kg

- ▶ **Typical price:** £130
- ▶ **Web:** www.bosch-pt.com

THE GW VERDICT

- ▶ **PROS:**
Quiet and easy to use; clean plunge cutting
- ▶ **CONS:**
Blades are really expensive; difficult to see pencil line
- ▶ **RATING:** 3.5 out of 5



Plunge cuts are straightforward and fairly clean in man-made boards, so you could make worktop cut-outs without first drilling holes for a jigsaw blade



Away from woodworking it's great for cutting rigid plastic pipes cleanly, which can be awkward with a hacksaw



In the garden it's pretty efficient when cutting small branches and logs

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The heart of any planer is the table and bed, and the PT260 from Record Power features a cast-iron thickening bed for strength and rigidity and boasts a 150mm thickening capacity. The specially hardened surfacing tables are a generous 1m in length and will plane boards up to 260mm wide.

The powerful induction motor enables the machine to remove up to 3mm in a single pass. Beware of cheap copies: they often use cheaper components (such as aluminium thickening tables) and poor quality motors, electrics and switches. Record Power have sold thousands of these machines over many years and have continually upgraded and improved components and features so that they can give the machine their market leading five-year guarantee with total confidence.

Thickener

The PT260 has a 150mm maximum thickening capacity and a generous 400 × 260mm working table, which is made of cast-iron for solid support.

Extraction & guard hood

This fits quickly and easily for thickening and engages a micro-switch to ensure it is in place before use.

Cutterblock

The PT260 features a two-knife cutterblock with re-sharpenable, reversible blades. The feed mechanism features noise reduction slots and anti-kickback teeth, which prevent the material being thrown back when thickening.

Fence

The fence can tilt from 0-45° on a positive stop to make re-setting an easier task.

Tables

Hardened 1m long tables are treated to reduce friction, allowing easier movement of stock.

Wheel kit

A pedal-operated wheel kit is provided as standard allowing the machine to be easily re-positioned in the workshop for cutting long lengths of timber or whenever a change of position is required.

Rise & fall

Features a large easy-to-read scale and adjustment is via four threaded support bars with brass insets that are operated by a simple handwheel.



To find out more about Record Power and the extensive range of woodworking machinery available, visit the website: www.recordpower.co.uk

SPECIFICATION

- **Thickener feed rate:** 5m/minute
- **Cutterblock knives:** 2
- **Cutterblock diameter:** 63mm
- **Maximum thickening height:** 150mm
- **Maximum thickening width:** 260mm
- **Maximum thickener depth of cut:** 3mm
- **Maximum planing width:** 260mm
- **Maximum planer depth of cut:** 3mm
- **Planing table length:** 1,000mm
- **Motor input P1:** 1.9kW
- **Motor output P2:** 1.5kW
- **Weight:** 80kg
- **Size:** 1,040mm high × 930mm wide × 1,100mm deep

HOW TO ENTER

To be in with a chance of winning this fantastic prize of a PT260 10 × 6in planer/thickener, just visit www.getwoodworking.com/competitions and answer this simple question:

Question: What is the PT260's maximum thickening capacity?

The winner will be randomly drawn from all correct entries. The closing date is **8 December 2017**

Only one entry per person; multiple entries will be discarded. Employees of MyTimeMedia Ltd and Record Power are not eligible to enter this competition

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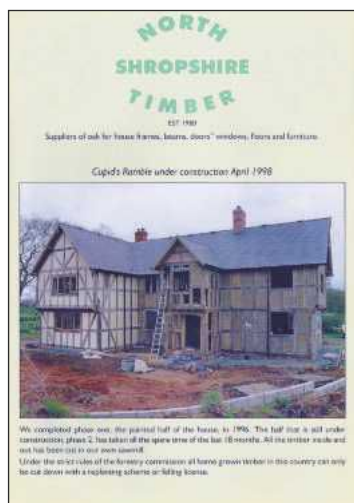
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OLIVER!

A theatrical production sets **Dave Roberts** reviewing the situation – or at least wood's ability to transform and be transformed

Altered states: the audience sees a character calling to his wife upstairs; backstage, the cast sees an actor speaking into a darkness that contains no stairs at all

Artifice: the stage flats, with their picture rails, architrave, and skirting, showed a vicarage sitting room



PIC 2. Dave Hinton's house really is the catalogue of North Shropshire Timber's stock-in-trade

of the effects of the railway network's growing reach – Railway Time. The sun was superseded by the telegraph so that, when 'The Old Vic' first opened its doors, clocks that had been set using a sundial's shadow were being regulated by Greenwich's time signal.

Except on the prime meridian, then, what we call noon is no longer high, though of course the nature of the sun's transit is altered not at all. Having a lily-pad sort of mind, it seemed a short leap from this duality to wood's versatility: it can either be used to show its natural face, or be used to create illusions through artifice. And can there be any more literal illustration of the material's ability to be both natural and artificial while still being, well... 'wood', than the framework of a stage flat?

During a recent theatrical production (see **main images above**), I was struck by the fact that the stage-lit flats, with their picture rails, architrave, and skirting, showed to the audience a vicarage sitting room with a French window (sounds familiar...); at the same time, for the cast off-stage the flats' bare plywood and rough-sawn timber construction provided the concealment behind which work essential to the play's illusion was done – all of which rather set me thinking...

On the face of it...

Of the 'natural' case – letting wood appear as wood, as Frank Lloyd Wright would have it – I came across a remarkable example when my search for a helpful timber merchant led me to Oswestry's North Shropshire Timber (**01691 610 570**), over which Dave Hinton presides like the Welsh Marches' equivalent of Pop Larkin. I'll be returning to his yard soon, but for the moment what's of interest is the fact that it wasn't his sawmill that Dave showed me first, but his house: timber-framed and jettied, it is a living compendium of his stock-in-trade (**PIC.2**). Framed in oak, its floors

Until recently, visitors to the Old Vic' enjoyed the sound of the church clock striking Village Time: while the hands maintained the sober appearance of British Summer Time or Greenwich Mean Time, the chime was 'adjusted' (as we liked to pretend when it caused people to check their watches) to allow for the village's position in relation to Greenwich. Our spot in the valley is 3° 21' west of the prime meridian, which equates to 13 minutes of 'temporal separation' – coincidentally, the interval after the hour that the clock would strike. Now, alas, we have been converted: the church warden has ministered to the mechanism, and (to re-arrange the old Zen riddle) hand and clapper sound as one (**PIC.1**).

The idea of Village Time isn't altogether fanciful, of course. Only a handful of years after the serialisation of Dickens' *Oliver Twist*, Britain experienced another

PIC 1. Even as the timbers in this spire were being assembled, Britain was converting to Railway Time



PIC 3. Teak veneers conceal the work of the marine ply core of William Garvey's bath; those mitred corners hold back half a ton of water



PIC 4. Natural goodness: the stability of teak, and its natural oils that make it water-resistant and durable



PIC 5. Ink black: Richard Warmisham's Mont Blanc pen case was stained with squid ink



PIC 6. Tired drains, raised ground levels, and blocked-off air vents have all contributed to damp at The Old Vic'



PIC 7. The root of the problem: addressing the causes of damp may mean serious digging...

are of several varieties including ash and chestnut; there are doors of pippy oak, worktops of beech, a clock case of cherry, and panelling of burr poplar. Perhaps the most striking entry in this catalogue, though, is the floor of elm, whose boards were laid so that they'll cup in the same direction, before being coarsely flattened to add extra facets, and then softened by sanding and polishing. The result is a surface alive with light, figure, and colour.

The main beams in the house are 18ft lengths of 10 x 10in green oak, which were sawn at Dave's mill, where he also proved their strength to building inspectors by loading them with a five-ton digger, under whose weight they deflected not one whit. Talking of Frank Lloyd Wright, I gather he used a similarly empirical method to demonstrate the strength of the concrete pillars he used in his design for the Johnson Wax headquarters.

... and beneath the surface

For an instance of 'artifice', meanwhile, or wood concealing essential work behind the scenes, I'm looking back to a visit I made a while ago to William Garvey (www.williamgarvey.co.uk), the Devon-based furniture-maker who has a particular talent for combining wood and water in its bespoke baths and basins. Tom Cornish, who at the time was the firm's chief draughtsman, explained that the company had experimented with a variety of the woods considered suitable for use in wet conditions, but most ultimately proved unsuitable for its designs: iroko's relative instability, for example, made it unreliable given the changes in temperature and the long, mitred joints used at the baths' corners; afrormosia proved to be porous to the extent that it sweated beads of moisture; oak, meanwhile, has a tendency to blacken on contact with water, which isn't attractive in a bathroom. Eventually, the furniture-maker settled on teak, whose largely straight grain remains

stable despite temperature changes, and is heavy with natural oils that make it water-resistant and durable.

While solid teak continues to be used in some of its basins, William Garvey's baths now use teak constructional veneers, whose grain conceals a core of marine-grade ply (**Pic.3**) that works to eliminate any movement in the bath's walls, allowing the mitred corners to be joined only with a two-part epoxy resin that has its origins in the marine industry (but is not, was all Tom would tell me, the West System epoxy); the loose tongues incorporated in these joints are there, I understood, only to help align the mitres during assembly. The base of the bath, meanwhile – which is gently dished to encourage the water to run down to the central plughole (**Pic.4**) – is simply housed in the bath's sides. Initially, the firm finished its teak baths and basins with OS wax and teak oils, on the basis that these provide a flexible seal; however, it later adopted TimberTect, a polyurethane finish that also comes to us by way of the marine industry.

A quick, paper-clipped note on veneers: two useful bookmarks are Timberline (www.exotichardwoods.co.uk), or for constructional veneers, The Wood Veneer Hub (www.thewoodveneerhub.co.uk).

From William Garvey's Japanese-style baths it's a short segue to Japan, which, around the time that The Old Vic' was built, was widening its trade connections with the rest of the world. Oriental lacquerwork had already given rise to the imitative finish called 'japanning': in *Oliver Twist*, the Artful Dodger talks of 'japanning his trotter-cases', a phrase which, Dickens explains: "Rendered into plain English, signifieth cleaning his boots." With the increased importation of goods from Japan came a heightened fascination for many things Japanese, and a vogue for ebonising, which Stephen Simmons once described

>



The rings forming the blanks for William Garvey's round, teak baths are built up brick-fashion, glued together, and then turned to shape – no mean feat

TURNING WITH AN UNUSUAL TWIST

Long ago in the morning of GW, (August '83 to be exact) Tobias Kaye, who was then the magazine's resident turner, recounted his adventures when turning two of William Garvey's round baths. The sloping walls of the baths were built up brick-fashion, using stacked rings of teak, each ring being made up from spindle-moulded arcs that were glued together. While the rings of the first bath each used nine arcs, this was later increased to 12 to reduce the curvature in each arc, and thereby the amount of exposed end-grain in the finished surface.

Bolting a 1.7m-diameter blank weighing about 1,800lbs to the faceplate of his VB36 lathe wasn't the easiest of manoeuvres, Tobias recalled: "But once it was all up and running," he discovered, "it was so smooth that I could turn up the speed to 150rpm without a murmur. Once some turning [had been] done, I wound it up to 220rpm. This was still silky smooth, but the peripheral speed" – the rim of the bath would've been moving at about 40mph by then – "and centrifugal force was beginning to bother me!"



PIC 8. Wet: the timber edging on the steps down to the cellar have rotted, thanks to extreme damp

as either up-market fakery or environmentally sound stewardship, depending on your point of view.

It might also be another example of nature and artifice combined, though it's one that works best on fruit woods, and timbers like sycamore and beech, whose naturally close grain can be filled, and their figure obscured to provide a good base for the artifice – the dark, dense colouring, which is characteristic of ebony.

The trick to ebonising – and here I'm going back to Stephen's advice – is to first stabilise the surface by wetting the wood to raise the grain, and sanding it back with 240 grit abrasive, repeating the process until the surface remains smooth when dampened. The wood can then be coloured with a black stain (squid ink, used in Richard Warmisham's pen case (Pic.5), is a deep, blue-black dye that's becoming increasingly popular) before sealing it with either a sanding sealer, or with French polish (shellac) diluted with methylated spirits. You can build on this base by applying ebony shellac polish, though for a little extra magic, Stephen suggested supplementing the shellac with a pigment such as Liberon's vegetable black earth pigment. A pigment, of course, is not only opaque but also acts as another grain-filler, properties that will both help to obscure further any figure in the wood. Once dry, the shellac can be de-nibbed with wire wool or Webrax, and built up to the final finish by applying layers of ebony shellac (whistling all the while "And tho' I'd be the first one to say that I wasn't a saint/I'm finding it hard to be really as black as they paint,") and allowing each coat to dry before applying the next.

Showing its age: K2Cr2O7

Lying somewhere between what's natural and artificial, perhaps, come the effects upon wood of potassium bichromate (also known as K2Cr2O7 or potassium dichromate), which can be used to age timber. Whereas the dye or pigment in a conventional stain will tend to darken the soft earlywood more than it does the harder latewood, potassium bichromate is an oxidising agent that reacts with the tannins in a timber, and so works upon both woods equally to give an even finish that mimics the darkening effect of time, and exposure to air and light.

The effect of K2Cr2O7 will vary with species, so experimentation with different concentrations is necessary to determine the result: one source I referred to suggested starting with one teaspoon of powder per pint of water; another suggested as much as about eight teaspoons per pint for really deep colouration. Whatever the dilution, the application is the same: raise and

flatten the grain, and then wash the wood with the potassium solution, working quickly to avoid tidemarks. After removing any excess, leave the piece to dry; exposing it to natural light hastens the 'ageing' process.

You'll find a thorough, illustrated account of K2Cr2O7 at work in Bruce Wedlock's paper 'Chemical staining' on the Eastern Massachusetts Guild of Woodworkers' website (www.emgw.org), where it's filed under Resources/Papers and Articles. In the meantime, I should point out that, although K2Cr2O7 is available in conveniently small quantities from suppliers such as ReAgent, it is a hazardous substance to be handled with care; gloves, eye and breathing protection are a must, which is probably why I've so often relied, despite the drawbacks of pigments, on a simple solution of van Dyke crystals, whose effect can be modified with nothing more dangerous than a damp cloth. That said, water brings its own hazards...

Wet & dry

"The first peal of distant thunder reverberated in the air, and the rain commenced pouring violently down." Dickens' *Oliver Twist* is full of downpours, Carol Reed's film *Oliver!* opens in rain, and 'liquid sunshine' isn't unknown at The Old Vic' either, where it seems that the aged drains have, for years, been failing to carry away the rainwater collected by the slates and gutters (Pics. 6 & 7). The result has been that too much has been finding its way down to the river via the cellar, and while cool and damp might be fine for storing wine, it also leads to 'cellar rot' – wet rot in timbers; the problem has compounded by the blocking up of some of the vents in the stone walls, restricting air flow through the cellar (Pics.8 & 9). Luckily, wet rot remains local to the source of water, and – unlike dry rot, whose spores will infest sound timber if left unchecked – it doesn't spread to dry wood, so the joists spanning the cellar are unaffected. If wet rot is caught early, it may be enough to address the source of the water and allow the timber to dry; at The Old Vic', however, there'll be no choice but to replace the timber framing these cellar steps... **GW**



PIC 9. ... and drying: tackling the rainwater problem has meant the cellar floor has begun to dry



NEXT MONTH

Winter's drawing on, and work on The Old Vic' starts to move indoors, and back to the workbench, I hope. In the meantime, I'm taking the marvellous Ron Moody's advice: "Shut up and drink your gin!" – damson gin, that is



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PREPARING TIMBER FOR REUSE

Heat, sand, strip!

Phil Davy shows you how to remove old polish and varnish

At some time we've probably all had to strip back a finish, whether it's to refinish a piece of furniture, salvage some timber in order to reuse it, strip painted doors, stairs and so on. Or maybe we're unhappy with our previous attempts at polishing or varnishing and need to start again. But what's the best approach?

It's important to assess each job individually. You don't want to make a pig's ear of what may actually be a fine piece of period furniture. With old furniture it's usually important not to lose its patina. That lovely old mahogany chair or table may simply need its finish reviving rather than stripping. Whatever method chosen you'll need the correct tools, though these can be quite basic. And if you're not sure whether the item you're about to attack with paint stripper could be a valuable antique, get advice from an expert first.

Sometimes it makes sense to combine tools and methods. Stripping a wide, flat surface back to bare wood is easy enough with a big sander, though attached mouldings and decoration can be easier with a chemical stripper. Some products are quite nasty to use, especially chemicals. Always wear protective gloves and work outdoors if possible, especially when sanding. If this is not possible, hook up a vacuum extractor to the tool if there's no dustbag fitted.

Sanding & scraping

Perhaps the most obvious way to remove a finish is to sand the wood, either by hand or using an electric sander. It really depends on the surface as some tools are more brutal than others. For removing layers of paint a belt sander is pretty effective, but don't be tempted to use this tool on veneered surfaces as it's far too aggressive.

For flat areas a random orbit sander will leave fewer swirls than an orbital or palm sander. It's better to start with a relatively fine abrasive (say 180 grit) and move to 120 grit if the finish is stubborn. Start with a coarser grit and you may find the sander is livelier than you expect, making it harder to remove the scratches with subsequent grades. Then you can switch to hand sanding, working in the direction of the grain and using increasingly finer grits.

A detail sander will get into those awkward corners and is ideal for localised sanding. For outdoor work a cordless sander makes life easier and safer, with no extension cables to worry about. The downside is battery life, so have a spare fully charged, if possible. On moulded edges it can be just as quick to sand by hand, using a length of dowelling or block shaped to fit. Just wrap abrasive around the matching piece of wood.



In some situations it's hard to beat the good old cabinet scraper. Correctly sharpened, this will cut through lacquer or varnish nicely. Use a convex or concave scraper to get into mouldings.

Chemical strippers

Probably the messiest to use, chemical strippers are pretty effective. Simply brushed on to a surface, the gel eats its way through the varnish, paint or whatever finish you want to strip. You'll probably need to apply this a couple of times at least, depending on how many layers you have to penetrate. The surface will start to bubble after a few minutes, but you may need to leave this for an hour or so for it to really work.

Scrape the paint or varnish or use a scouring pad or nailbrush on intricate surfaces. After you've finished brushing on the gel, wash off the residue with a damp cloth. When dry, sand the surface. Chemical strippers can be nasty should the gel come into contact with your skin, although there are now safer alternatives, which thankfully won't burn. Make sure there's good ventilation as some fumes can be quite unpleasant.

Chemical stripper is great for jobs such as stripping stair balusters, as the



A random orbit sander should be your tool of choice for flat areas



A detail sander, such as this Ryobi version, handles awkward areas with precision



You can't beat hand sanding for moulded edges



Cabinet scrapers are aptly named...



... but you'll need a suitably curved one for mouldings



You'll need at least two applications of chemical stripper



Less vicious chemical strippers are now available

gel clings to vertical surfaces and won't end up all over the floor. On the downside it's probably the most expensive method, especially where large areas need stripping.

Feel the heat

Nothing beats an electric heat gun for stripping paint or varnish rapidly. Once switched on the heat is virtually instant, so take great care using this tool. With two or three temperature settings, the typical range is from 50 to 600°C. If you suspect lead is present in old paintwork it's safer to work at no higher than 400° (level II on the Bosch gun). The lowest setting on this tool blows cold air and can actually be used to dry paint. Fitted with interchangeable nozzles, a heat gun can be used equally effectively on mouldings and in tight corners. Always start at the lowest setting and increase temperature as necessary.

Grand revival

Sometimes a finish won't need stripping back but simply reviving with an appropriate cleaner. This can often be the case with antique furniture,

which may simply have acquired decades of grime. Handy products to use here are Rustin's Surface Cleaner and Finish Reviver (www.rustins.co.uk). Surface Cleaner will remove a wax finish and is best applied with fine steel wool, while Finish Reviver is a fine abrasive cream that's excellent for removing heat and water marks and restoring a gloss.

Garden furniture

Outdoor furniture is often neglected and rarely inspected before storing for the winter. If the finish is generally OK but showing signs of algae or lichen, treating with a suitable restorer should bring it back to life. Then you can apply a suitable exterior oil or varnish.

If the furniture needs stripping, any of the above methods can be used. Once stripped and sanded it's a good idea to apply a clear preservative, which will help to prevent rot and decay, though this will depend on how vigilant you are at maintenance. It's pointless reviving tired outdoor timber if it's not regularly maintained. For oil finishes, for example, it's worth checking every six months, particularly if items will be uncovered throughout the winter. **GW**



For quick results go for an electric heat gun



Of course, these Rustin's products could be all you need

Garden furniture will be grateful for a regular dose of Cuprinol





METRIC OR IMPERIAL?

When buying hardwoods you'll need to step back in time. Most timber suppliers still use the imperial system, so be prepared for cubic feet rather than cubic metres (unless it's softwood). Hardwood board thicknesses are generally described in inches and priced per cubic foot, though softwood may still be sold this way, too. If you're uncertain, it's a good idea to take a calculator

Buying & transporting timber

Phil Davy discusses the things to look for when buying both soft and hardwoods from a timber merchant as well as offering some great tips on getting boards home and how best to transport sheet materials

Buying timber can be a slightly daunting experience if you're new to the game. Not only is there a certain amount of jargon involved, but when arriving at the timber yard how do you know what to look for? And how on earth do you get the stuff home when you've only got a car? Then there are sheet materials. Perhaps easier to buy, but moving a full board can be a challenge, especially if you work alone. Here are a few guidelines that will hopefully help.

BUYING TIMBER

Buying softwoods

If you need PAR (Planed All Round) softwood for a project there are several options. The easiest way is to buy it from a DIY warehouse, though timber tends to be expensive and you may well be disappointed with the quality. Some of the big stores sell softwood pre-packed, depending on dimensions and length. When it's wrapped in plastic the poorer quality wood is invariably hidden on the inside, so avoid this. The only advantage of buying this way is convenience. Stores open seven days a week, most evenings included.

A better source for softwood is often a local builder's merchant. If looking for architrave, skirting or simply PAR timber you may be allowed to sort through the stock to find clean boards, though this will depend on their policy. When sifting through boards always make sure you leave them tidy when you've finished. Again, avoid busy times such as early mornings when builders tend to congregate. Saturday mornings are usually quieter.

As softwood sold this way is almost always PAR it's more expensive than rough-sawn stock. Although all four surfaces will be planed, don't

rely on edges being square, though, and always sight down boards to check for bowing and cupping.

Specialist suppliers

If you have a planer/thicknesser and portable circular saw (or table saw), probably the best option is to visit a specialist timber merchant. Of course, not every woodworker has the luxury of having a supplier nearby, but if you're in that happy place, make the most of it! The downside is that most timber merchants are not open at weekends.

Most hardwood merchants will also stock two or three softwoods and may even have an offcuts area where you can pick up a bargain. My local supplier (Oscar Windebank, near Bath) stocks yellow pine, Douglas fir, unsorted redwood and western red cedar. Board thicknesses range from 25mm to 75mm, or 100mm in certain species. The quality is much higher than you find at DIY sheds, with larger board widths and greater choice. Timber here is generally rough-sawn, so you'll need to think about sawing it to size before planing and thicknessing.

Buying hardwoods

You need to be sure whether you want air-dried or kiln-dried timber when buying hardwoods. For an explanation of the differences, refer to Peter Bishop's article on drying and moisture content in GW323. As a very rough guide, timber stacked outside and open to the elements will be in stick and air drying. Sawmills process the timber on site and these are usually native hardwoods such as oak, ash or elm, where green timber is sold for timber framing and construction work. Kiln-dried timber should be stacked under cover in a building, not just



If you need PAR softwood for a project there are several options



If timber is imported, ends are usually painted to limit shrinkage



You may be allowed to sort through the stock to find clean boards, though this will depend on retailer policy

protected with a tarpaulin thrown over it. If timber is imported, ends are usually painted to limit shrinkage. If the supplier seems a bit vague about the drying process, the simplest way to check is to use a moisture meter.

Unless they're very busy, most specialist suppliers will move stacks for you with a forklift. Don't expect to be able to sort through a whole stack, though, unless you take a friend along to help you lift boards manually.

Machining timber

Most timber specialists offer a machining service, though this may be basic. They should cut boards to length so you can get the stuff in your vehicle, though again you may have to wait. For planing and thicknessing, there's likely to be an hourly rate and a guaranteed wait of a few days. Don't expect a pristine finish, unless planer knives have recently been changed.

Tools to take

Whether buying soft or hardwoods it pays to take a handsaw if you need to cut timber to length. Builder's merchants usually have saws available, though these may not be sharp. A cordless jigsaw can be useful if you have a quantity of boards to cut. Don't forget a pencil and tape measure.

When grain and figuring is important for a project it's worth taking a block plane, particularly for grubby hardwood boards. A few strokes will reveal what's underneath. If you're looking for quartersawn boards,

run the plane across an end to reveal the growth rings. A calculator is also handy and most smart phones will include one. A pair of sturdy work gloves is recommended if you're handling heavy, rough-sawn boards. It's all too easy to get a nasty splinter...

Sheet materials

Both builder's merchants and DIY warehouses sell a variety of sheet materials, with MDF probably the most popular. No matter what the thickness, you're not going to get an 8 x 4ft sheet in the car, though. Most DIY stores sell smaller pieces of ply or MDF for convenience, though this is by far the most expensive way to buy man-made boards. It's far more economical to buy a full sheet if you have space to store the offcuts.

Wall saws

Most bigger DIY warehouses will have a wall saw for cutting plywood, MDF, chipboard or hardboard. Not only are these machines very accurate but cuts will be dead square and straight. Some stores offer up to 15 cuts for free, then charge 50p per cut thereafter.

If you know exact sizes for a project then it pays to take along a cutting list. You may want to do a simple sketch to plan cuts efficiently, though don't forget the saw kerf if dimensions are tight. This way you can save an awful lot of time and effort, reducing the amount of cutting and unpleasant



Unless they're very busy, most specialist suppliers will move stacks for you with a forklift



When grain and figuring is important for a project, it's worth taking a block plane



The highest quality plywood, birch ply, is also the most expensive



Some timber stores offer up to 15 cuts for free, then charge 50p per cut thereafter



With seats folded down it's possible to get panels up to 1,500 x 1,000mm flat in the back, with longer, narrow boards resting on the armrest between the front seats



Often the most convenient method of transporting materials is to rent a van for 24 hours



A sliding side door can be convenient, depending on what you need to load and where you can park



A medium size van can be an economical way to deliver those bigger projects

dust when you get home. If you're uncertain of finished sizes, just getting the sheet cut into three or four manageable pieces means you can stash the material in the back of the car. It's surprising how much you can squeeze into a medium-sized hatchback. You'll need to plan your visit, though, as you can be queuing for some time at weekends or lunch times.

TRANSPORTING TIMBER Home delivery

Getting your timber or sheet of MDF home can be tricky unless you've planned ahead. If you can't get the materials inside a car, there are a few other solutions to the problem. Most timber merchants will deliver to the door, though you'll probably have to pay for this service unless it's a large order. Obviously somebody will need to be at home when the truck is scheduled to arrive – few drivers these days seem to have a mate to help unload.

Car carry

Although not necessarily ideal, I manage to get most of my timber inside the car (Ford Focus).. With seats folded down it's possible to get panels up to 1,500 x 1,000mm flat in the back, with longer, narrow boards resting on the armrest between the front seats. Make sure board ends are padded well if you do this, though. Unless you drive an old banger you'll need an old blanket or towels to protect upholstery as well.

For regular visits to the sawmill it may be worth investing in a pair of roof bars to suit your car. Depending on vehicle size, these typically cost from about £55 upwards for a basic kit. Although they can be left fitted to the roof, remember that they will affect fuel consumption. A small trailer is another consideration for transporting timber, though

you'll obviously need somewhere to store it. I've never tried towing one as my car has to be parked on the road.

Van rental

Often the most convenient method of transporting materials is to rent a van. Again, plan ahead and they can be surprisingly economical. If possible, try to avoid renting at weekends as the cost can almost triple, compared with mid week. Even returning the vehicle on a Friday increases the price considerably. It pays to shop around, but with Enterprise I pay less than £30 for a medium-sized van (short wheelbase Vauxhall Vivaro or similar) for a 24-hour period. Although you can't get an 8 x 4ft sheet flat in the back, these will fit if loaded diagonally. Internal length is typically 2.8 metres.

If you're buying veneered MDF boards or similar which are important to protect and stack flat, you'll need a slightly longer van (Renault Master or similar). Length here increases to around 3.2 metres.

If in doubt about the internal loading capacity, ask your local hire depot if you can measure a van for length and width, although some will give dimensions on their website. Don't forget to take into account protruding wheel arches, although spacing usually allows a full sheet to fit between them. For transporting extra long boards a long wheelbase Mercedes Sprinter, or similar, is the answer. Internal length of this particular model is around 4.3 metres.

A sliding side door can be convenient, depending on what you need to load and where you can park. If you've never driven a van before, taking someone with you to act as an extra pair of eyes can be useful when reversing or where turning space is tight. Vans may be petrol or diesel, so check before filling the tank!

USEFUL KIT/PRODUCT:

Brennenstuhl MD moisture detector

A moisture meter is a handy device if you're buying air-dried timber or even kiln-dried timber that may have been stored for some time in an unheated shed or workshop. This resistance meter from Brennenstuhl is inexpensive and will give a good indication of moisture levels within about 6mm of a surface. For precise readings in thicker timber you'll need a more expensive professional model, such as those from Protimeter or Tramex. These generally include calibration for specific species as well as longer pin probes (up to 50mm) for driving more deeply into the wood.

Powered by a 9V battery (not included), this is housed in a compartment at the back. Remove a protective cap to expose the two steel probes and the meter can then be activated via the on/off button. This fires up a clear LCD window, displaying percentage, wood/construction material, acoustic signal, battery level and moisture guide (three raindrop symbols). A second button gives choice of measurement in wood or construction materials (brickwork, plasterboard, wallpaper and so on).

In use

When you take a reading an audible bleep will sound, between one and three raindrop symbols appearing in the display. The higher the moisture level the faster the bleep, giving an approximate idea if you're trying to pinpoint damp patches. Holding a third button down for one second locks and holds the actual percentage display, while depressing this for three seconds mutes the bleep. After three minutes of inactivity the display shuts down automatically to conserve battery life.

For checking moisture level in wood you simply press the tapered probes into the surface, parallel with the grain, rather than across it. Depending on the hardness of the timber these may only go in about 2mm, while on softer material it could be more, though the resulting holes will be larger. Depending on board thickness it's best to do this at several points to obtain

an average reading. Where light levels are poor or when you're struggling round the back of a timber stack, the 'hold' function is particularly handy.

Moisture levels from 5 to 50% can be measured, while for construction materials the range is from 1.5 to 33%. Resolution is 0.1%, while accuracy is stated as plus or minus 3%.

As well as checking timber destined for projects in the house (especially when centrally heated), the MD is useful where foraged logs or offcuts need to be dry enough for a woodturner or carver. At a more basic level, it can be handy for checking the firewood pile, especially for a woodburner that should only be fed drier logs.

Conclusion

It may be more limited than more expensive meters, but the Brennenstuhl is good value if you want a rough idea before working on timber that may actually need further drying.



For checking moisture levels in wood you simply press the tapered probes into the surface, parallel with the grain



At a more basic level, it can be handy for checking the firewood pile

Specification:

- **Measurement range for wood:** Between 5 to 50%
- **Typical price:** £19.85
- **Web:** www.brennenstuhl.com

THE GW VERDICT

- **PROS:** Simple to use with large display; audible bleep and hold functions
- **CONS:** Not designed for thicker timber; probes not replaceable
- **RATING:** 4 out of 5

USEFUL KIT/PRODUCT: Panel carrier

Moving sheet materials around on your own is not ideal, with most of us having probably struggled with an 8 x 4ft sheet. Not so bad when it's 6mm MDF, but 19mm-thick material can be pretty weighty. Not only could you damage your back, but it's too easy to bash the edge of a board, too.

This simple gadget from Axminster could save your fingers as well. It consists of a sturdy steel handle screwed rigidly to a U-shaped channel, 334mm in length. The channel is 25mm

wide, so you won't be able to carry anything thicker. Veneered 25mm MDF actually finishes at almost 27mm, meaning you may still need another pair of hands to unload, depending on board thickness. Thankfully the comfortable PVC grip is offset, so your knuckles are not trapped against a panel sitting in the channel. Use your other hand to grip the top edge and lift away. As expected, moving a board now becomes a piece of cake! **GW**



The channel is 25mm wide, so you won't be able to carry anything thicker



The comfortable PVC grip is offset, so your knuckles are not trapped against a panel sitting in the channel



Specification:

- **Typical price:** £11.05
- **Web:** www.axminster.co.uk

THE GW VERDICT

- **PROS:** Heavy steel construction; excellent value
- **CONS:** Restricted to 25mm-thick boards
- **RATING:** 4 out of 5

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Aedicula*

* 'Originally in Roman architecture: a niche (for a statue), especially one framed by two columns supporting a pediment or an entablature' (OED)

Edward Hopkins fashions a wooden niche – a small space inviting occupation – to mark the arrival of his grandchild



Guan Yin, a Buddhist image associated with compassion, is commonly known as the 'Goddess of Mercy'
Photograph by Lara Clarke-Ward



PIC 1. My original cast concrete niche. Behind it is another 'spirit house' for the garden

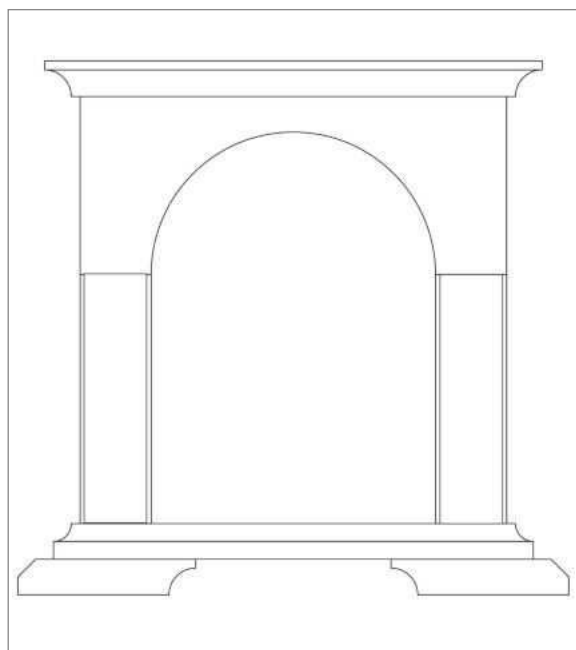


PIC 2. A pile of oak has been sitting upstairs in the garage burning a hole in the floor. Any minute now it's going to land on my bench

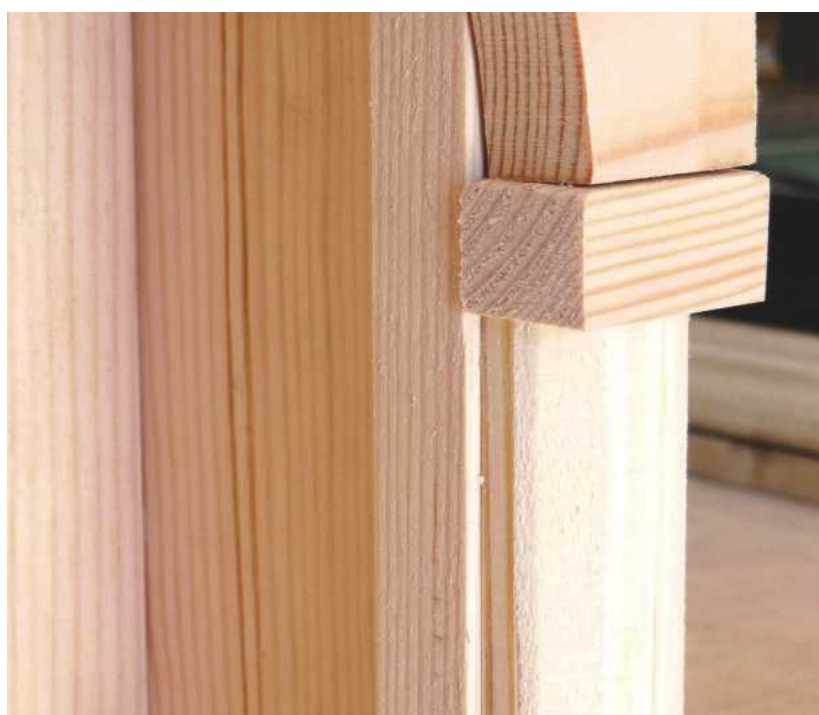
A stack of wood is a tank of fuel: all that is needed now is a destination and a map. My destination is another person's arrival: James and Katie are about to perpetuate the species. It's a good excuse to give a gift.

I don't like repeating myself. To give the same gifts I've given to Jaya, my first grandchild, somehow would diminish them both. I want to do new things anyway, so what, I wondered, would be suitable for my second grandchild whom I, along with everybody else including its parents, haven't yet met? Something timeless, obviously; versatile and adaptable, universal.

So I did: I did repeat myself. Years ago I cast two concrete house-shrines: arched enclosures, residences



PIC 3A. I hastily constructed a mock-up...



PIC 4. The prototype capital arrangement made no sense. The oak version was to have full cylindrical pillars and an equally thick arch

for the non-existent spirits of the garden – ornaments perhaps. The first casting came out poorly and now serves as a vibration damper underneath a domestic water pump. The second sits on my terrace along with another spirit-house (**Pic.1**). Though successful in design (I thought) the concrete version was too heavy to have any commercial future. A wooden version, however, might have legs.

Constructing the niche

A niche is a small space inviting occupation. The word is said to come from the Old French 'niche' meaning a nest. Its inhabitants can be anything: a photograph of Aunt Agatha; a pot of flowers; a beautiful vase –

whatever rewards being a centre of attention, for this is what the niche does: it puts a frame around a three-dimensional object, drawing in the eye and focusing the mind. If every time you see the picture of Aunt Agatha you remember her lumbago and send a pulse of goodwill towards her, it might, just might, make a difference to her. It'll certainly make a difference to you.

My favourite inhabitant is nothing at all. I keep my concrete niche empty. No one thing is of overriding importance. None of my concerns outweighs the others. When I look at the empty niche, I almost look through it, like Alice, at everything. Anyway, this is not my business. If I make an empty space and >



PIC 3B. ... to test construction and proportions. I considered this a little dumpy



PIC 5. Component blanks full of promise; satisfying in their own right. Notice the quadrant grooves in the pillars. I'd intended to complete these cuts later to form a $\frac{3}{4}$ in cylinder pillar to clip round a square board, but this didn't happen. The grooving did, however, come in useful

PIC 6. The grooves were put into the square pillar blank on the table saw, then the blank was sawn to a three-quarter octagon. The next move was to set the table at 22.5° and cut the octagon into a partial hexadecagon (16-sided polygon). It was not practical to saw it further into a triacontadigon (32-sided polygon) or, if you prefer, a triacontakaidigon, and if it had been I wouldn't have known I'd done it because I'd never heard the word before. Instead I rotated the faceted pillar on a belt sander reckoning that if I maintained a constant speed, it would circularise itself



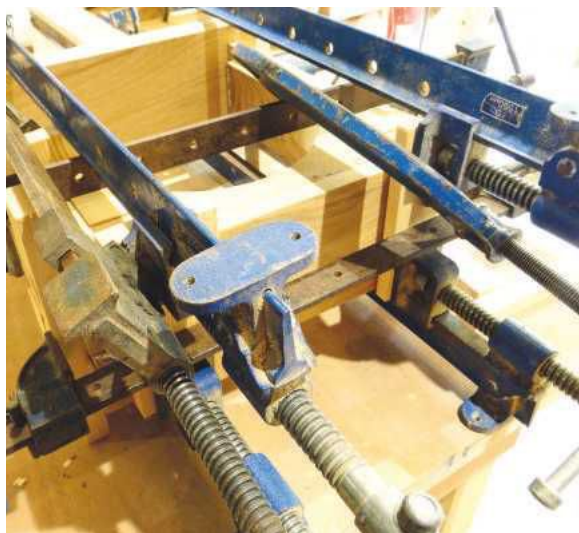
give it to someone, it's not my responsibility what they put in it. My gift is the opportunity and the invitation.

I drew out a façade to get the proportions right, then I made a mock-up in pine (**Pic.3**). The wooden version seemed to require capitals on the pillars. Without them it looked too plain. I had drawn a concave moulding on the pediment but was not prepared to set up a router to cut it.

The pine prototype showed that the pillar/capital/arch assembly (**Pic.4**) didn't work. If you use architectural language, you have to make architectural sense, demonstrating flow and form, bulk, weight and tensile strength. To express the mass of the arch and the power of the pillar, they had to be double thickness. The column could then appear fully cylindrical, and the arched superstructure monumental (this is to be a shrine after all). The style is Romanesque (Norman) but simpler still like some preexistent archetype.

When I came to translate the pine version into oak, my calculations flew away. It wasn't what was on my piece of paper that had supremacy, but what was upstairs in my workshop. When you've invested in a stack of timber, you treasure it. When it comes to being used, none should be wasted. Field oak planks are not perfect. Mine had a few large knots, and some areas had distorted as they'd further dried. Firstly I looked through the 2in pile for the pillars. One piece whistled at me. I sawed and planed it all into far more blanks than I needed because more pillars would surely come in useful at a later date?

PIC 7. Boxes take a lot of cramping. Here the arched entablature needed a snug fit up into the case – located by tongues in grooves. It helped to keep the case square. The Titebond Quick & Thick PVA promised a firm grab in 15 minutes. I gave it longer than that, but not so long that I couldn't check the joints while the glue was still soft, and cramp them again (and more directly) if needed



It is not so much more work to make three items as it is to make one. If they turn out well I'll have two spare to go into stock. If I hit snags, I can presumably salvage one that is fit for purpose. I cut three blanks for the arched top, planed them up and bandsawed the curve, smoothing it on the end of a bench sander. The pillars were smoothed by rotating them steadily on the flat of the belt. I stacked all the blanks in the house for a long weekend, hopefully to dry out that touch more (**Pic.5**).

I decided to box joint the corners of the 'case', keeping the case rigid by a back frame. The back frame could, like a photo frame, be fitted with a removable panel. I didn't want to see oak on the back wall. I feared it would be too abrupt, stopping vision short. I fancied a square of blue shot silk like the sky beyond. Or maybe a little sheet of perfect white plastic or glass. If it didn't work, I could revert to wood and make an oak panel, perhaps bevelled. All options would be open.

The box corners fitted pretty well. I cramped a case together and set up the arch and pillars to judge the look. It was different. They were now inside the case rather than on the façade as in the pine model. Oops! Along the way from pine to oak I must have forgotten what I was doing. I blame the long weekend. Dammit! Hence swiftly to Damage Limitation. Could I put it right? Hang on a minute! Do I want to put it right? Isn't it better this way round? What effect will it have on the rest of the niche? Within a few minutes I'd convinced myself that my error was no error at all but an instinctive reaction to an emerging design. I felt better then.



PIC 8. The tongue gave the pillar a precise location and a more secure glue joint. The less you have to think about, the better. The tongue runs along the top of the entablature too. The groove at the back of the pillar became redundant as my plans changed. I filled it in with tonguing just in case a mirror was ever put in the niche, thus revealing it



It didn't stop there. The pine version had boots and a hat. How would I do this in oak, especially now that the lines had changed? The simplest pediment would be a concave moulding but I don't have a router cutter big enough. Besides, wouldn't it look as though it had just been plonked on top? I wouldn't lap it over the corner because half-obscuring the box corners would look like the miscalculation it was. I didn't want to apply mouldings to the top (completely obscuring the joints) because there would be a conflict of grain direction that might result in the moulding detaching itself (or at least standing proud while the sides further shrank). It took me a little while fiddling with the cutters I have before I dropped the hat and boots idea entirely. Was I just being lazy? Or would the bare rectilinear case add elemental simplicity to the niche? Am I talking myself into an inferior product, or am I failing to recognise a superior one. It was only when I recalled that my concrete niche has neither feet nor pediment that I relaxed. Its stark, almost brutal solidity was exactly the quality I wanted in the wooden one. Phew!

The backdrop too took a change. I don't have any blue silk so that went west. What I do have, though, is a remnant of shower wall board left over from James' bathroom. He gave it to me because he has nowhere to store it, but he gave it a little sadly because he likes it so much. Whichever of us found a use for it first could have it, he said, obviously hoping it would be him. It wasn't. Here where clear associations with vinyl were absent, there was a chance it would carry an

impression of beaten bronze. The random patterning of the vinyl accords well with the spasmodic burrs in the oak, and it gives the niche richness, depth and weight. And, of course, in this way James does have his wallboard returned, at least in part.

Aedicula debrief

The aediculae took the normal circuitous route to arrive. In hindsight, the pine prototype was almost irrelevant for the finished article had different proportions and neither pediment nor feet. Yet, of course, it was essential (for me) to the development of the design.

In the transition from thought to thing, I was, as usual, not in complete control, though I did pay close attention to accurate woodwork. Whereas I had thought (for instance) that the top box corner joint might be obscured by a moulding, when I decided it wouldn't be, it needed to be good enough to appear bare (I've confessed that this was not a given).

The finished niche, then, is something of a surprise. Thankfully, on first glance, a pleasant surprise. While it is fresh in my eyes, I should take the chance to criticise it. View it as objectively as I can so as to learn from my mistakes.

To do this I watch my own eyes. Where do they travel when they look at the niche? Pillars... arch... frame... capitals... round the chamfers of the capitals... back to pillars.... Are there any uncomfortable not-quite-right areas where my eye is snagged and loiters unhappily, or do I look round and round, bouncing from side to side, up and down, not finding any area that detracts from the others? Is the piece in harmony with itself or does anything stand out?

If the first scan comes up with nothing, I take more scans from other angles. I keep looking for something wrong. The little infills are obviously wrong but I have to not worry about them, and most end users might never notice them. So yes, I must take yet more care over the technicalities of joinery.

The other lesson, I suppose, is to stick to my vision. The difference between the pine and the oak niche is that the pine one has a further level of decoration and is therefore softer, more luxurious and weaker. But what is most appealing to me about the concrete niche is its brutal lack of decoration. The weight of the arch and the strength of the pillars make the empty space within all the more powerful. I'm glad this has survived, reincarnated in oak. **GW**

PIC 9. Two mistakes. The groove I set in so as to locate the pillars and the entablature showed through the case. The joint on the right was simply inaccurate, but the rest of the box corner is a reasonable fit



PIC 10. One remedy. A fiddly but simple matter of cutting infill pieces, chiselling a slight taper, smearing with glue and tapping home. It is worth getting the grain to match as well as you can. If the match is perfect, the mend will be invisible



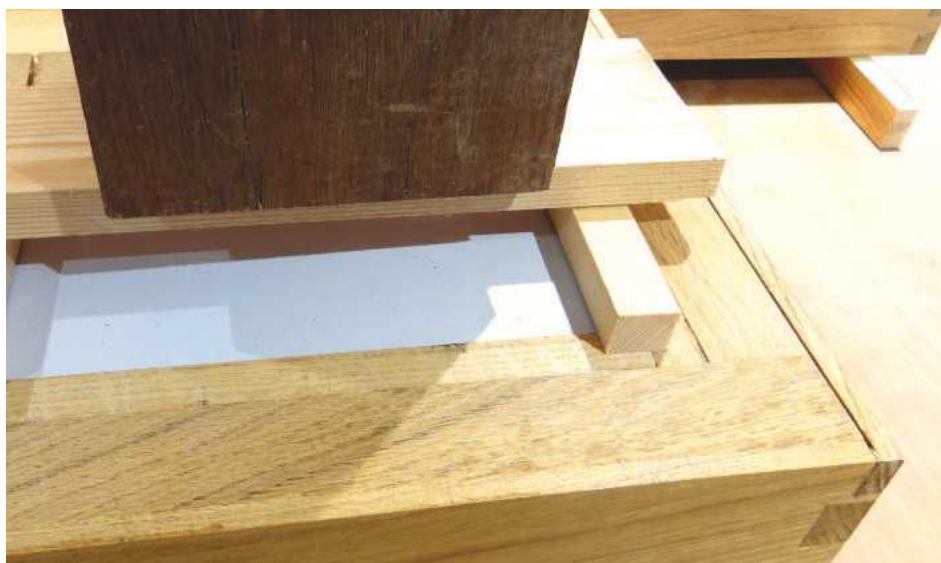
PIC 11. So too with the inaccurate joint. Saw the waste off proud; allow the glue to set, then sand the infill flush. I would never use filler here. Filler has a bland eye-catching colour, and, whatever it says on the label, it tends to sink

Make way for PVA



Titebond adhesives are manufactured by Franklin International, of Columbus, Ohio, USA. I asked Bob Behnke, the Technical Service Manager, to explain the constitution of PVA glues:

"All water-based PVAs, which make up the majority of wood glues, are microscopic balls of plastic that are suspended in water. The technical term for this adhesive is Polyvinyl alcohol stabilised polyvinyl acetate. The polyvinyl acetate is where the term PVA is derived. The polyvinyl alcohol, which surrounds and stabilises each particle, is the actual chemical that allows for such good adhesion to wood (actually the cellulose that makes up a large portion of wood).



P.S. I'd left myself very little opportunity to fix the vinyl panel. I bandsawed thin strips of oak, fitted them snugly within the frame then used the Titebond to glue them in place, suddenly being grateful for a thicker, stronger glue!

As compared to all other PVAs, ours would fit the same chemical makeup. But the differences from there is in how the formulations are compounded. We add ingredients to give the adhesive faster set in some cases and longer working time in others. Since we also produce the PVA resins, we can tailor some of the polymer chemistry to enhance the properties available to our formulators."

Q: What makes 'Quick & Thick' special, and why would you recommend it to woodworkers?

A: "Titebond Quick and Thick is a high solids PVA Adhesive. The product also contains additives that soften the polymer slightly to allow for better adhesion to multiple surfaces. The high solids are designed to allow for faster set, and the high viscosity is designed to keep the adhesive from being absorbed into end-grain, giving stronger butt and mitre joints. No accelerators are added, and the final strength is 3,000psi, which is slightly less than straight PVAs but high enough to be stronger than most northern grown hardwoods. Recommendations for this product are for moulding and trim, fast set for hard to clamp joints and end-grain gluing."

In use & conclusion

I used this PVA in the Aedicula project. It allowed for quick assembly of the pine prototype. Being thick it bonded imprecise joints. And I used it throughout the construction of the three oak niches. Would I use it again?

On an accurate construction any PVA has a faster grab time than one might imagine. A rubbed joint can be difficult to prise apart after just a few minutes. And this is it: it depends on the accuracy of the joint. The best cut joints grip through friction alone. The glue is just to

make sure they stay that way. Excess pressure should never be required in cramping – this just shows that something is out of line – and glue should not be relied upon to correct this. Nevertheless in the real world we sometimes are especially grateful for a strong adhesive. In these cases Titebond Quick & Thick is probably good to have around.

I would not use it on a regular basis for two reasons. One: money. It is many times more expensive than other PVAs, which most serious woodworkers surely buy in 4 or 5 litre containers and decant into a dispenser as required. (I would not recommend the cheapest of these (low solids) PVAs, which are formulated for building use such as sealing).

The other reason is its very selling point – its thickness. There is something satisfying about laying a definite convincing trail of glue (and the Titebond dispenser does have a good spreading nozzle), but if your joints are good, you simply do not want thick glue, which at worst will aquaplane components apart (aka squidge) and at best will ooze out and need cleaning up. Having said that, Titebond Quick & Thick dries to a rubbery consistency that can easily be pared away.

It also began to worry me that a fast drying PVA might dry too fast. My aediculae were tricky things to cramp (as is often the way), and I did not want an added panic of time-restraint. But again, as with other PVAs, the grab was soft enough that if on releasing the cramps after half an hour or so, some joints were not tight, there was enough flexibility to remind them of where they were meant to be.

The irony of this then is that a powerfully formulated and expensive adhesive might be most useful on poor quality approximate work such as the prototype pine niche. I used about half this little bottle on the aediculae. I'm very happy to have the other half sitting on the shelf. I'm sure that one day I'll be very grateful for its added potency. Just not every day. And, fair's fair, I didn't put it to its stated favoured use, which is end-grain gluing. But here's another thing: how often in good woodworking is end-grain glued? Except when mitring, never. **GW**

Specification:

- ▶ 2X faster and 3X thicker than traditional PVA glues
- ▶ Dries clear – paintable
- ▶ Ideal for the workshop, home and craft projects
- ▶ Fills small cracks and gaps
- ▶ Unaffected by finishes
- ▶ Excellent sandability on wood
- ▶ Designed for interior projects
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From tree to table

John Bullar shares the story of how he converted an apple tree into a stunning occasional table

This is a short story of how I converted a tree in my client's garden into an occasional table for their living room. Here I will concentrate on how I went about preparing the timber, as opposed to techniques of furniture making, which are covered elsewhere in the series.

Normally, like most makers, I would buy in dried timber rather than chop down a tree for conversion, which is a lengthy and expensive process when considering the cost of labour. However, this was a special commission and it also provides a good tale to illustrate the process of preparing to make furniture from timber, which otherwise might be bought at any stage of conversion.

Fruit tree wood

Fruit tree woods are well liked for furniture making because of their attractive colour and fine, even grain that can be crisply cut into detailed shapes. Apple wood was historically used for some furniture although, being more dense and harder than most, it was preferred for engineering parts, such as the gear teeth on windmills. It is rare to find commercially converted apple wood nowadays.

Only the trunk of a tree produces boards for furniture making (**Pic.1**). Branches are generally not used for timber conversion, though turners often use them for spindles, handles, bowls, etc.

One of the first things that strikes you about a freshly felled tree trunk, even a small one, is how extremely heavy it is. A dense hardwood like this has a moisture content of over 100% – in other words, the water trapped in the wood weighs more than the dry wood itself (**Pic.2**).

As soon as a trunk is felled the log starts to naturally dry out from the exposed surfaces at the ends, and as it dries it shrinks. This shrinkage causes tension that will quickly lead to splits or 'checks', making it useless. The best way to relieve the tension is to saw the log down the middle, which I did using a chainsaw (**Pic.3**). Of course, chainsaw teeth are designed for cutting across the grain, not along the direction of the fibres, so this was a slow job.

Quartersawn boards

When you buy good quality converted timber there is sometimes an option of 'quartersawn boards', which have been cut as close as possible to a line that passes through the very centre of the trunk.

The main advantage is that the wood is much more stable and it also has better figuring. From the supplier's point of view, quartersawn takes more work and there is more wastage, so of course it is more expensive, but still worthwhile for making good furniture.

I used a large bandsaw to first rip the half trunks into quarters, then sliced 25mm-thick boards alternately from each side of the quarter, flipping the wood over between each cut to produce quartersawn boards (**Pic.4**).

It is not uncommon for garden or farm trees to have metal such as barbed wire trapped inside, and I hit a couple of nails, which unfortunately shortened the life of the bandsaw blade (**Pic.5**).

Wood drying

Timber conversion companies normally sell boards as either 'air-dried', where they are stacked with spacers under cover and

allowed to dry naturally, or 'kiln-dried', where hot air is forced between the boards. Kiln-dried timber is cheaper because it only takes a week or two to process, whereas air-dried takes a year or two and occupies a lot more space, the old rule of thumb being 'one year per inch' (25mm).

Air-dried wood is nicer to work with, especially using hand tools, and it also has better colouration. However, air-dried boards may not be dry enough for furniture making until they have been



PIC 1. With its fruiting days over, I stripped this old Bramley apple tree of its branches ready for felling



PIC 2. With roots and branches chopped back, we loaded the main trunk onto a trailer



PIC 3. I used a chainsaw to rip longways down the centreline of the trunk, revealing the dark heartwood



PIC 4. On the bandsaw table I ripped the half trunk into quarters before 'quartersawing' boards from alternate sides



PIC 5. Nails hidden in wood were not visible through the bark but blunted the bandsaw teeth



PIC 6. I stacked the 'green' boards with 'stickers' to separate them in the warm workshop loft, initially helped along by a dehumidifier



PIC 7. The dried boards are laid out in sequence to check for straightness, twisting or cupping

stored indoors for a while to get the moisture content down to about 10%, which can be measured using a wood moisture meter.

I often store air-dried wood for a month or so in the warm roof space above my workshop where there is a dehumidifier to ensure no damp accumulates (Pic.6). On this occasion, with the apple wood being un-dried or 'green', I stored it for more than a year with the boards spaced out so air could flow through.

Wood faults

At some timber yards the wood, especially if it is imported, all conforms to standard widths with straight edges, as this helps accountancy and avoids the cost of transporting waste material. Native wood is often sold with waney edges, giving the furniture maker more flexibility in the shapes and sizes they use (Pic.8).

At some stage (preferably before agreeing to buy it), you need to lay out each board so you can check it is not

cupped across its width and not bowed or twisted along its length. Ensure there are no long splits or large loose knots and that the colour is consistent between boards.

Cutting over-size

Before planing and thicknessing, the boards need to be cut down to a size that is just slightly longer and wider than the finished dimensions; this avoids planing large areas that are not needed, which can result in the boards ending up too thin. I find a jigsaw >



PIC 8. A waney edge on each board can be ripped off with a handsaw or on the bandsaw or saw table



PIC 9. I find the hand-held jigsaw versatile for roughly cutting larger boards down to size



PIC 10. After sawing slightly over-size, the boards' best face is flattened using a medium length broad plane



PIC 11. Using the face as a reference surface, I hold a try-square against it to check if the edge needs adjusting to a right angle



PIC 12. The longest plane you have is best for levelling and straightening edges



PIC 13. With one face and both edges planed, I use a marking gauge to score a line ready to plane the second face down to final thickness



PIC 14. I lay the planed boards edge-to-edge so as to match them up, then I use a string and pencil to roughly mark out the circular tabletop edge



PIC 15. After gluing the boards together, I use a small trimming router to cut the top as a true circle



PIC 16. The finished table made from pale Bramley apple wood, trimmed with a contrasting tropical wood

NEXT MONTH

In GW326, John looks at planer and thicknesser machines

(not the most accurate of tools) is quite convenient for this rough work (**Pic.9**).

Face & edge

Precision-made furniture starts with precision planed wood, by which I mean flat, parallel surfaces at right angles to straight, parallel edges. Choose the best side first as the reference face and plane this with a sharp hand plane or machine it on a surface planer. Once you are happy this face has no pits or sawmill marks, check the edges are at right angles to it using a try-square. Plane the edges using either a long hand plane or surface planer while re-checking with the square before you reach final dimensions.

If you use a machine thicknesser, take the thickness down to half a millimetre more than needed, ensuring the whole

surface has been planed, then remove half a millimetre (no less) in the final pass so as not to leave surface marks.

For hand planing, mark a line for the final thickness around the edges with a marking gauge pressed against the reference face, then plane the opposite face down to the line (**Pic.13**).

Building up width

When making furniture from solid wood, it is very likely you will have to join boards edge-to-edge to achieve the widths required for tops and panels (**Pic.14**). Accurately planed edges are particularly important here to avoid gaps or weakness in these joints (**Pic.15**).

Even when the timber supplier has extra-wide boards, they can often be cupped or unstable. It may be better

and more cost effective to build up the width needed from narrower boards.

Before gluing boards together, check the edges meet snugly and the patterning or 'figuring' of the surface fits together as an attractive picture.

Conclusions

Generally, due to the amount of extra work, time and wear on machinery, converting even a small tree trunk is best left to those with the equipment to handle it. However, it does provide an opportunity to make use of unusual woods or trees that have sentimental value, and turn them into fine furniture (**Pic.16**). I hope you will find that this article also helps to explain the complete procedure of timber conversion and relate it to the different conditions in which converted wood is sold. **GW**

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Timber suppliers UK

A comprehensive alphabetical list detailing the wide range of timber suppliers across the UK, as well as the services each one of them offers



David Simmons of Interesting Timbers with a huge sequoia log prior to milling

Adhectic Ltd (Berkshire)

Tel: 01235 520 738

Web: www.adhectic.co.uk

(Services: Committed to providing an excellent backup to both trade and DIY and offer an 'in-house' joinery facility, producing special sized skirting/architraves, door linings/frames, windows, etc.)

A Harrison (Northants)

Tel: 01536 725 192

Web: www.aharrisonwoodturning.co.uk

(Services: Specialises in supplying high grade native British hardwoods; provides high quality machining and turning services; holds a very large supply of seasoned and unseasoned timber)

Bennetts Timber (Lincolnshire)

Tel: 01472 350 151

Web: www.bennettstimmer.co.uk

(Services: Fully equipped modern milling facility, which can be set up to machine standard and bespoke patterns; timber treatment including stains and finishes; a well stocked retail area and delivery capacity)



Brodies Timber (Perthshire)

Tel: 01350 727 723

Web: www.brodieslumber.co.uk

(Services: Tropical and exotic hardwoods – blanks, planks and spindles; native timbers, plus joinery grade softwoods and hardwoods; also offer a cut to size service)

Brooks Brothers Timber (Essex)

Tel: 01621 877 400

Web: www.brookstimmer.co.uk

(Services: Offer 50 of today's most popular timber species, all hand-picked to the customers' requirements; state-of-the-art milling facilities are equipped with a range of 23 moulders)

C&G Barrett Ltd, Cilfiegans Sawmill (S. Wales)

Tel: 01291 672 805

Web: www.cilfiegansawmill.com

(Services: Offer a comprehensive bespoke service; majority of timber is specifically selected and cut for each order; locally sourced timber; sells beams, kiln-dried and air-dried oak)

English Woodlands Timber (West Sussex)

Tel: 01730 816 941

Web: www.englishwoodlandstimmer.co.uk

(Services: Sell a variety of boards, including waney-edge and square-edge oak; waney-edge stocks include ash, beech, cedar of Lebanon, cherry, chestnut and many more)

EO Burton, Thorndon Sawmills (Essex)

Tel: 01277 260 810

Web: www.eoburton.com

(Services: Specialise in machining hardwoods and softwoods; supply quality hardwood and softwood; have a state-of-the-art machining department; also sell flooring, doors, oak posts and sawn timber)

Eynsham Park Sawmill (Oxfordshire)

Tel: 01993 881 391

Web: www.eynshamparksawmill.co.uk

(Services: Primarily a sawmill cutting fresh sawn green oak and softwood to order; are able to undertake machining of timbers and also offer planing, chamfering and shaping)

FH Ives (Essex)

Tel: 01268 732 373

Web: www.fhives.com

(Services: Offer both traditional and modern day timber products; sell an extensive range of timber, decking and building materials; the on-site mill ensures a speedy turnaround of sawn timber)



Fulham Timber (London)

Tel: 0208 685 5340

Web: www.fulhamtimber.co.uk

(Services: Specialists in timber and building supplies; stock a varied range of timbers and sheets in various sizes and lengths; have their own sawmill in Colliers Wood, London)

G&S Specialist Timber (Cumbria)

Tel: 01768 891 445

Web: www.toolsandtimber.co.uk

(Services: Specialist hardwood timber merchants and saw millers offering huge stocks of kiln-dried native, temperate and tropical hardwoods from around the world, plus beams, cladding, etc.)

Good Timber (Northamptonshire)

Tel: 01327 344 550

Web: www.goodtimber.com

(Services: Hardwood timber merchants supplying timber for woodcarving, woodturning, woodworking and furniture making; browse through their timber stores either online or in person)

Interesting Timbers (Somerset)

Tel: 01761 241 333

Web: www.interestingtimbers.co.uk

(Services: Specialise in sawmilling, drying and selling quality native hardwoods and softwoods; most of the trees bought are locally grown and very often felled because they have outgrown their position)

ISCA Woodcrafts (South Wales)

Tel: 01633 810 148/07854 349 045

Web: www.iscawoodcrafts.co.uk

(Services: Stockists of a diverse range of native and international hardwoods, woodworking materials, accessories and wooden crafts; carry a large selection of air- and kiln-dried boards in a range of sizes)

Joyce Timber (London)

Tel: 0208 883 1610

Web: www.joycetimmer.co.uk

(Services: Specialist supplier and can machine any of the timber they sell (softwood and hardwood) to any dimensions; particularly specialise in machining hardwoods; also cut various sheet materials)

Lincolnshire Woodcraft (Lincolnshire)

Tel: 01780 757 825

Web: www.lincolnshirewoodcraft.co.uk

(Services: Stock a broad range of English and exotic tropical hardwoods as well as a range of woodturning tools and accessories; each blank is individually machined, labelled then end-grain waxed)

Nottage Timber (South Wales)

Tel: 01656 745 959

Web: www.nottagetimmer.co.uk

(Services: One of South Wales' leading timber importers, processors and distributors; stock a wide range of softwoods and hardwoods; on-site sawmill can undertake a wide range of sawing operations)



Ockenden Timber (Powys)

Tel: 01588 620 884

Web: www.ockenden-timber.co.uk

(**Services:** Stock thousands of woodturning and carving blanks, which are available in over 20 different species of native/exotic timbers; blanks are processed on-site to the highest standards)

Olivers Woodturning (Kent)

Tel: 01622 370 280

Web: www.oliverswoodturning.co.uk

(**Services:** Sell a wide range of woodturning blanks in a variety of shapes and sizes offering the ideal solution for bowl, spindle and pen turners; also sell a wide range of woodturning tools and supplies)

Oscar Windebank & Son (Wiltshire)

Tel: 01225 742 929

Web: www.oscarwindebank.co.uk

(**Services:** Supplier of hard and softwoods; a small timber yard offering a friendly and bespoke service; can machine to required size and can usually deliver within two days of confirmed order)

Oxford Wood Recycling (Oxfordshire)

Tel: 01235 861 228

Web: www.oxfordwoodrecycling.org.uk

(**Services:** Sell a range of recycled wood including good quality second-hand scaffolding boards, cut to size and delivered, as well as kindling wood, wooden shelving and natural-edge timber)

Stiles & Bates (Kent)

Tel: 01304 366 360

Web: www.stilesandbates.co.uk

(**Services:** Mainly woodturning suppliers but also offer a limited amount of hardwoods in planks of various lengths; machinery service, cutting lists and a 'destination' retail shop)

Scadding Timber (Avon)

Tel: 01179 556 032

Web: www.scadding-son-ltd.co.uk

(**Services:** Supplier of softwoods, hardwoods, plywood, building boards, mouldings, doors and also offer a bespoke machining service; good stock of timber in a variety of hardwoods and softwoods)

Scawton Sawmill (North Yorkshire)

Tel: 01845 597 733

Web: www.scawtonsawmill.co.uk

(**Services:** Specialise in all sales of timber, including prime air- and kiln-dried oak; green oak beams in many lengths and different sections; and also stock various thicknesses of ash, beech and cherry)

S.L. Hardwoods (Croydon)

Tel: 020 3051 4794

Web: www.slhardwoods.co.uk

(**Services:** Supply a wide selection of PAR solid timber; products including decking boards, teak planks, decorative panels and stair components; sheet material such as MDF and white melamine birch)



Snainton Woodworking Supplies (N. Yorks)

Tel: 01723 859 545

Web: www.snaintonwoodworking.com

(**Services:** The woodstore contains a vast range of British and exotic turning and carving timbers; an on-site sawmill prepares the timber for the woodstore; also a large selection of pen and elm seat blanks)

St. Andrews Timber & Building Supplies (Scotland)

Tel: 01316 611 333

Web: www.standrewstimbersupplies.co.uk

(**Services:** Stock over 100,000 timber and building products including quality sawn and machined redwood and whitewood, CLS graded whitewood, as well as both imported and British softwoods)

Surrey Timbers Ltd (Guildford)

Tel: 01483 457 826

Web: www.surreytimbers.co.uk

(**Services:** Stock one of the widest ranges of local and exotic hardwoods in the UK; also stock live-edge slabs; have a simple racking system that allows people to come in and select their own boards)

Sykes Timber (Warwickshire)

Tel: 01827 718 951

Web: www.sykestimber.co.uk

(**Services:** Specialise in quality hardwood and softwood; stock over 40 species of hardwoods including some exotics; have a machining mill for planing and moulding and a well equipped log mill for conversion)

The Wood Recycling Store (East Sussex)

Tel: 01273 570 500

Web: www.woodrecycling.org.uk

(**Services:** A social enterprise with a massive range of construction timber and sheet materials available at great prices; also includes vintage reclaimed timber and firewood)

Thorogood Timber Ltd (Essex)

Tel: 01206 233 100

Web: www.thorogood.co.uk

(**Services:** Simply offer top quality timber, expert advice, exemplary machining facilities and a truly personal service to all their customers; have a fully equipped on-site mill; sell top quality hard- and softwoods)

Timberline (Kent)

Tel: 01732 355 626

Web: www.exotichardwoods.co.uk

(**Services:** Tonewoods for guitar makers; fine hand tools, veneers, inlays and wood finishing products for the craftsman in wood; stock a complete timber range as board stock, veneers and inlays)

Timberman (Carmarthenshire)

Tel: 01267 232 621

Web: www.timmerman.co.uk

(**Services:** Supply a comprehensive range of woodworking machinery, power tools, woodturning lathes and accessories, routing cutters and accessories, plus much more)



Tree Station (Lancashire)

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UK Timber Ltd (Northamptonshire)

Tel: 01536 267 107

Web: www.uk-timber.co.uk

(**Services:** Nationwide supplier and producer of a vast range of domestic and European timber products; sell a wide range of structural, indoor and outdoor timber; offer a custom cutting service)

Waterloo Timber Ltd (Lancashire)

Tel: 01200 423 263

Web: No website

(**Services:** Plenty of timber in stock – call for details)

Wenban Smith (West Sussex)

Tel: 01903 230 311

Web: www.wenbans.com

(**Services:** Sell timber, boards, doors, worktops and bespoke mouldings; committed to supplying the best quality products; also offer a vast range of timber and timber-related products)

Wentwood Timber Centre (South Wales)

Tel: 01633 400720

Web: www.wentwoodtimbercentre.co.uk

(**Services:** Have extensive hardwood showrooms; expect to find hundreds of hardwood boards on display, all priced up, and easy to pick; all timber is locally grown – no tropical hardwoods)

WL West & Sons Ltd (Surrey)

Tel: 01798 861 611

Web: www.wlwest.co.uk

(**Services:** Sell a wide range of timber species; also able to offer an extensive range of workshop services for machined timbers; stock turning blanks, DIY hardwoods, exotic and Australian timbers)

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How to dimension timber accurately using a planer/thicknesser

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Most woodworkers, whether amateur or professional, will invariably at some point need to use a planer/thicknesser. We explore the reasons for this here

1. Cost - rough-sawn timber can be bought at a lower price than pre-planed and can then be dimensioned to the exact size required for the project. Even when paying a premium for pre-planed timber, it is often irregularly sized or warped and so needs further preparation.
2. Most projects require timbers to have adjacent edges at 90°, particularly when jointing is required.
3. Often pieces must be exactly the same size as each other when used for jointing.

A question Record Power professionals are often asked, particularly at woodworking shows and demonstrations, is why we need to use a planer as well as a thicknesser to achieve what we've just discussed.

Many woodworkers decide they can make do with a standalone thicknesser. These machines have a great deal of appeal to those relatively new to woodworking as they are less costly than a planer/thicknesser and can be bench-mounted if desired. However, as can be seen in the diagrams below, a standalone thicknesser is simply not capable of dimensioning all

four sides of a piece of timber accurately. The diagram below shows an exaggerated cross-section of a typical rough-sawn piece of timber, which will be used to illustrate the different results that can be achieved using both a standalone thicknesser and a planer/thicknesser.

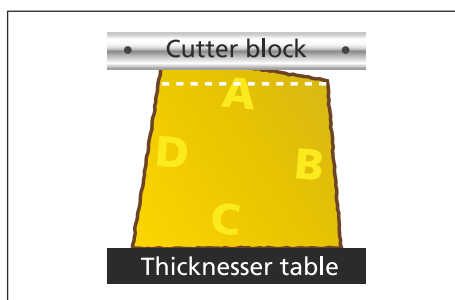
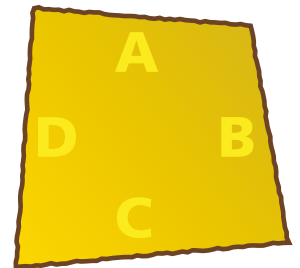


FIG 1. Firstly, surface 'A' will be cut to be parallel with surface 'C'. To achieve a planed finish to surface 'C', the workpiece is rotated 180° and passed through the thicknesser again

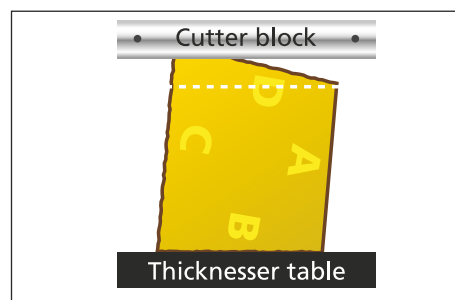


FIG 2. Now these opposite faces are parallel, we can see by turning either surface 'B' or 'D' face down on the table that we are only able to plane them parallel to each other but never at 90° to surfaces 'A' or 'C'

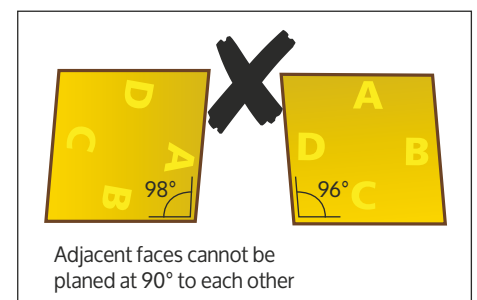


FIG 3. It can now be seen that no matter which way the timber is turned, only a parallelogram profile can be achieved

How a planer/thicknesser works

The key to understanding how a planer/thicknesser works is that in order to plane all four sides at 90° to each other, we must first plane two adjacent sides to 90°. Only a planer/thicknesser is capable of this.

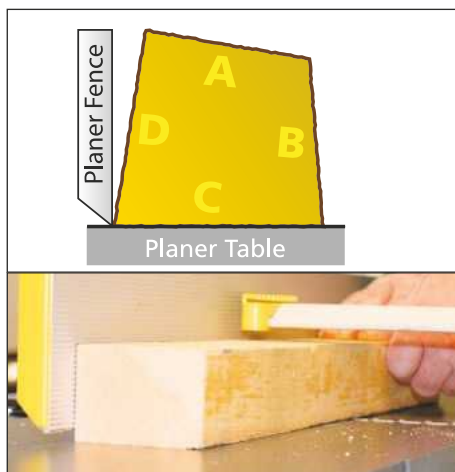


FIG 1. Plane surface 'C' to be flat using the machine in planing mode

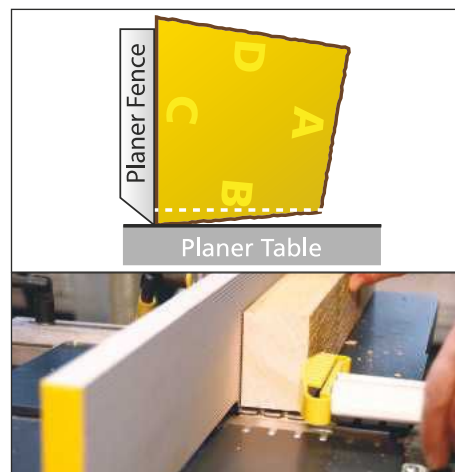


FIG 2. Place surface 'C' against the fence, which is set to 90°, and plane surface 'B' until it is at 90° to surface 'C'

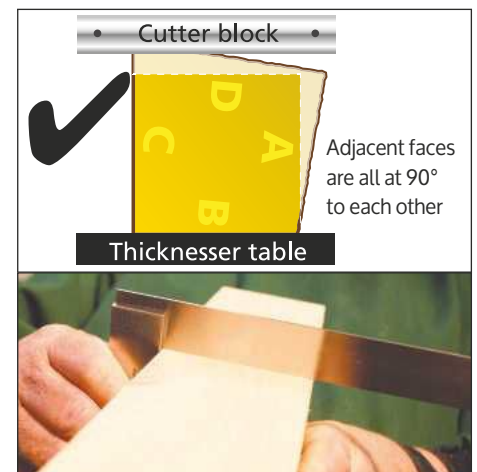


FIG 3. Once we have two adjacent faces at 90° to each other, the remaining opposite faces can be thicknessed parallel by using them as a reference



Cricket bat willow

Reconnecting with trees as a raw material

John McMahon describes his attempts to reconnect with trees as a raw material and in the process gives an outline of the past, present and future of woodland management from a woodworker's perspective

Woodworkers are a happy band; our raw materials are trees, our waste product is fire, and the bit in between is full of the smells, sights and sounds of the workshop. But how well do we know the forests and woods that surround us and how aware are we of the work that goes into keeping our timber racks stocked?

An embarrassing admission

I use a lot of traditional tools and techniques but I am a modern woodworker and it wasn't until I read Walter Rose's *The Village Carpenter* that I started to think about how disconnected I am from the trees and woodlands I rely upon for my livelihood. Walter describes growing up in the late 1800s in and around his Grandfather's timber yard. He knew the difference between boards of oak, ash, elm, pine and sycamore so early in life that he couldn't recall how or when he acquired that knowledge. To be fair, I took a little longer but I think I could match that level of expertise with sawn timber. Where the five-year-old Walter could beat me hands down, however, would be in his understanding

of the woodland that yields these sawn boards and of the processes that turns trees into usable, seasoned timber. The picture that develops as you read his story is of a boy who grows up with trees and timber so much a part of his life that working wood is woven into his very being and that understanding wood is his inheritance. I admit it: I'm a bit jealous.

Does it matter?

To draw a parallel, I feel like a gourmet chef who's a trifle vague about where his ingredients come from. Does it matter? Well, who would you rather have cook for you: the chef who is best mates with the local farmers, or the one you just spotted filling his van in the supermarket car park?

I am not saying this out of false modesty; I am a good woodworker and I am sure you are too. The point is that we are always striving to be better at our craft and I am convinced that we do better work and enjoy the process much more when we remember that the stuff on our bench used to be trees and didn't just turn up on a truck. Added to this, awareness of local sources becomes increasingly important as shipping timber from overseas becomes more and more expensive. So, it might be helpful to have at least a basic grasp of the past, present and future of our native species and how they are managed if we, as professional woodworkers, are to adapt, improve and survive.



PIC 1. Discovering the woodland around me



PIC 2. Welcome to Hodsock



PIC 3. Managing coppiced oak

What is woodland?

Left to its own devices, almost all of our country would be wild-woodland; trees are happy to invade any neglected areas and they really like the conditions here in Britain. Early human settlers changed the status-quo and by the late Roman period, farmland and moorland dominated the landscape. However, we have always needed a lot of timber and so we have had to manage our woods. By Tudor times three traditions of woodland management were firmly established: strictly speaking, 'woodland' is existing wild-wood set aside for cultivation of timber and underwood; 'wood-pasture' is a combination of trees and grassland used for grazing domestic livestock; and 'non-woodland' trees are those which grow in hedgerows and fields.

By the 17th century a fourth method, the practice of growing trees in plantations, was becoming increasingly common. Plantation growing is now the most widely used method of timber production in the UK.

A journey of discovery

Now that I have shared the fruits of my exhaustive research (*The Readers' Digest Our Ever-Changing Woodlands* – thanks, mum), I feel ready to embark on my own personal voyage of discovery. I decided to explore the local woodlands and, to be honest, it wasn't that difficult; I rent a house on a farm with 120 acres of woods and my commute to work takes me through some of the best managed forestry in the country – it's pretty shameful that I didn't do this years ago (**Pic.1**).

Step one was to take a guided tour of my home for the last 17 years, Hodsock Priory Estate (**Pic.2**). The Buchanan family have owned the estate since 1765 and, with occasional lapses due to war and economic downturns (not just a modern phenomenon), the woods here have been carefully managed as a commercial crop for the last 250 years. Sir Andrew Buchanan took over the management in 1966 and he showed me around.

So how does a 21st century landowner maintain commercially viable forestry? Of 120 acres of woods here, about 100 are cultivated, mostly in small parcels. Some are productive, some are not, but all need looking after so the productive areas need to support the less productive. "The easiest thing to do with forestry is to do nothing," and this is often the only option for those

who need to make money from their land. Sir Andrew explained that the only way he can maintain commercial forestry is with the farm and woods working together. This means that he has flexible access to skilled workers and essential machinery. Making a living from woodland also takes long range strategic planning and a knowledge of both the land and the market.

The first stop on my tour of Hodsock's woodland was the stream running along the edge of Pond Field. This stream is planted all along its banks with cricket bat willow (see main photo). This species thrives with its roots in running water, grows to maturity in around 12 years and has a ready market in the UK. Growing cricket bat willow is a big part of the estate's current planning and anyone who mentions aluminium bats here is liable to be hit with one.

So far so good, but unless you are making cricket bats, you probably won't be much affected by willow production levels, or will you?

The thing is, we are consumers and as such we need our suppliers, so if growing willow enables local landowners to make a go of commercial production and stay afloat then we may well benefit from the other trees that they grow. Modern forestry is no longer about massive single species plantations; resilience and diversity are the watchwords. So, for example, the landowner growing willow in boggy lowland may well be able to grow beech or oak elsewhere on the same estate.

Speaking of which, our next stop is Forest Plantation. This 35-acre wood is the largest single plot on the estate and is mostly made up of oak, beech, Spanish chestnut and Corsican pine with a smattering of silver birch. Now I am in my element. Oak is my second favourite timber (after walnut) and the beech is my favourite tree. When you walk through woods like these you can see why there is so much romance attached to woodland. Not only do they look like dormant giants, these trees are future boats, castle doors and treasure chests.

Walter Rose got it right when he said: "Every right-minded person deplures the ruthless felling of trees," but, "the once noble oak, felled at the right time might [be] transformed by the hand of man... and then its usefulness and beauty... continued for centuries as a delight and inspiration to the beholder."

>

From small acorns

Like skinning cats, there's more than one way to plant a tree. The cricket bat willows at Hodsock are planted as saplings as are some of the oaks and pines; however, some of the oaks in Forest Plantation are coppiced. I had heard the term before but associated it more with Thomas Hardy's Wessex than with modern forestry. Coppicing relies on the stubborn refusal of healthy trees to die when you cut them down. The forester cuts down the tree and sells the timber, the stump produces shoots (now you can call the stump a stool) and one of these shoots is chosen as the major. The others are removed and the major will grow into another full-sized tree (**Pic.3**).

Other commercial woods are self-seeded and we saw a great example of this in Low Wood. The tree in the centre of **Pic.4** is the parent of the surrounding circle of trees. There must have been a really good year for acorns followed by several good growing years because a whole generation of new oaks has formed in almost a perfect concentric ring around the parent tree.

The challenges of growing timber

Growing broadleaf timber commercially is not for the fainthearted; what thrives in one spot may struggle only a few yards away. Five minutes' walk from the oak family was a mixed section of Spanish chestnut, beech and oak. The chestnut tolerates shade and is doing well, as is the beech. The oak, however, is crowded out and not doing

well; it probably won't ever make timber. Add to that the very slow growing-rate and it can be difficult to justify growing oak unless you happen to like them, which, as it happens, Sir Andrew does.

There are plenty of challenges facing small-scale forestry: new pests and diseases, changes in the market and climate are just the start of a long list. So, what makes one farmer persevere with forestry when so many others give up? The answer here is not a stubborn refusal to move with the times; this estate has been in the charge of one family for 250 years and much has changed over that time. It is the responsible, harmonious management of that change with an eye on the future that underpins the woodland strategy at Hodsock.

If you would like to visit the Hodsock Estate and see small-scale modern forestry in practice, the gardens and woods around the main house are open for visitors during snowdrop and bluebell season (**Pic.5**). You can walk through Forest Plantation at any time of the year; I might even see you there.

A change of scene & scale

Hodsock is an exception; most landowners don't grow timber anymore. Now, the vast majority of UK timber production is under the auspices of Forest Enterprise, which together with Forest Services form what we know as the Forestry Commission. The Forestry Commission was set up in 1919 to maintain a strategic reserve of timber; World War I had depleted stock to critical levels and individual landowners couldn't afford to re-plant the vast areas of clear-felled woodland and so the government stepped in.

Carolyn Marshall and Andrew Powers, who both work for Forestry Commission Central England, were kind enough to help me with my exploration of Britain's commercial woodlands by showing me around their patch (about 75,000 acres) so that I could see what modern, large-scale forestry looks like.

I may have been expecting endless swathes of Corsican pine, but **Pics.9-12** paint quite a different picture, as you can see.

Suitably chastened and impressed, I start asking questions, and I most definitely have an agenda. I am not especially interested in the stands of Corsican pine, destined to be construction timber or chippings, I am really wondering how I can get my hands on great slabs of oak and ash.

However, reeling myself in and listening for once, it gradually dawns on me that one is inextricably linked



PIC 4. An almost perfect circle of new oak, surrounding the parent tree



PIC 5. Snowdrops surround Hodsock Estate



PIC 6. The mighty beech



PIC 7. 100-year-old pine in Forest Plantation



PIC 8. Much of the mixed woodland on the estate is run through with bridalways

with the other. This relationship is both commercial and ecological; mixed forestry creates the resilience that trees and the people that make their living from them need to survive.

The large single species forests that were essential for regeneration after World War I are gradually being replaced with more diverse woodlands. This isn't a panicky jump from one fad to another; previous ways of working have left a landscape that today's foresters must build upon.

I am beginning to realise that, to get the timber I need to work, I need financially healthy forestry as much as I need physically healthy trees and so I have to trust that people like Carolyn and Andrew know what they're doing. I'm glad it's not my responsibility, because the complexity and scale of what they have to do is pretty scary.

Big woods, big challenges

After World War I, our grandparents were looking out over a pretty treeless landscape: the war had demanded our trees along with a generation of young men. They needed to repopulate our woodlands and be quick about it, so, they used 'pioneer' species that could cope with bare plots and would grow and multiply quickly. Self-seeding birch, willow and pine established a bridgehead and were followed by less hardy but more valuable species. How do you decide what to plant when you need to make a forest from nothing? "Look at what grows on abandoned ground and use that" – sounds like a good plan.

The challenges facing modern forestry have changed since 1919, and so the landscape has too. Let's start with squirrels: these furry fiends decimate saplings and currently we have no practical method of controlling them. Deer are also a problem but you can keep them out with a fence. Squirrels look at your fences and laugh out loud. What's to be done? "It seems that red oak is not on your average grey squirrels' menu,

so we are currently planting more of these." Imagine the *Antiques Roadshow* in 300 years' time; some member of the public brings in a red oak chair from way back in 2095. He asks the expert: "Why so much red oak from this period?" The ebb and flow of history is driven by large and small things, like trees and squirrels.

The forest of the future

The sheer diversity of trees I can see as I walk through these commercially managed woods is also, to some degree, a reaction to environmental challenges. New diseases crop up so often that single species plantations pose a financial risk. Today's silviculture would surprise a forester from a couple of decades ago; it definitely surprised me. I have seen the plantation of the future, Carolyn and Andrew showed it to me and it had birch and oak living alongside cypress, Scots pine and cherry in what looked, to my untrained eye, like natural woodland. Within, there was a badger sett and dead trees left standing as habitat for insects and other wildlife. I even saw my first raven outside of the Tower of London.

I know this all sounds a bit too bucolic and jolly to be true, but I am just telling you what I saw and, to be honest, it was a lot better than I had expected. I have not been bribed! Carolyn and Andrew are nice people (notwithstanding their murderous tendency toward squirrels), but that's not why I feel so much more positive about our woodlands either. I used to walk or drive past miles of trees every day and see beauty, definitely, raw materials, certainly; but since spending a couple of days with people who manage our woodland, I feel a connection that wasn't there before; it's to do with past and future, romance and practicality, tradition and change, and I am glad to be a part of it.

I have always taught my students that if you cut down a tree, you had better make something worthwhile out of it. Thinking back, it was a bit of a glib statement... but not anymore. **GW**

START YOUR OWN JOURNEY

Visit a forest – www.forestry.gov.uk/englandsforests

Search for the Forestry Commission Woods and Forest page on YouTube – www.youtube.com – to see Andrew, Carolyn and Brian Blessed talking about sustainable forest management

Walk through Hodsock woodland – www.hodsockpriory.com

Read Walter Rose's *The village Carpenter* – ISBN 978-0-85442-065-0 – www.amazon.co.uk

Talk to John about timber and woodwork – www.schoolofwoodworking.co.uk



PIC 9. Surveying the harvest



PIC 10. This area will spend the next few years as 'heath-like habitat' while still producing timber



PIC 11. Planting cherry by the roadways means that this valuable crop can be monitored and maintained



PIC 12. Mixed ages and species, creating a more resilient forestry

Letters & Makers

Letter of the month

High gloss solutions

Hi Tegan,

I read Phil Davy's article on the making of a vanity unit with interest (GW323), but I do have a question I hope he, or somebody else in your team, can answer.

I was thinking of building a similar item from MDF, colouring it with a gloss paint, then completing it with a high gloss finish. The sort of thing you'd find in a bathroom showroom, which are generally foil wrapped. I'm a member of a couple of forums, and I've put this question out there, but all I'm getting is conflicting answers.

Is there a product out there that will give a high gloss, waterproof finish that is reasonably easy for the householder to maintain, without me having to go down the high output, commercial route?

I have been asked on a number of occasions

to make bathroom/kitchen units with a high gloss finish, although I've refused as I'm very wary of moisture ingress to the panelling, and the consequent swelling and de-laminating of the panelling I would like to use – primarily MRMDF or oak-veneered MDF/ply.

Bathroom and kitchen furniture is not something I do, but I feel I am missing out on some decent trading opportunities, especially if there is an accessible solution out there. I look forward to hearing what you guys have to say on this. Thank you in advance.

Warm regards, **Paul Reynolds**

Hi Paul, sorry for the delay in responding to you, though I'm not sure I can be a great deal of help...

You can buy a specialist MDF (Valchromat) in a range of 10 colours. It's coloured all the way through and can be machined in the same way as standard MDF.



Valchromat – a specialist MDF – is available in a range of 10 colours, and would be a suitable material to use for creating a high gloss finish on a vanity unit, or similar bathroom furniture

Thicknesses ranges from 8 to 30mm, in standard sheet sizes. It's also moisture resistant, so suitable for bathrooms. A specialist sheet materials supplier should let you have a small sample, which you could experiment with regarding finishing.

The easiest way of achieving a really high gloss finish on MDF (without spraying) that I know of is to apply two or three coats of Rustins' Plastic Coating (www.rustins.co.uk). This is a two-part clear lacquer that's particularly tough and can be burnished to a mirror finish. It will need very fine sanding between coats (600 grit or more) to get the best results.

*Hope this gives you some food for thought. Regards, **Phil Davy***

Shed of the Year 2017

Hello Tegan, I am disappointed that *Good Woodworking* didn't cover the 2017 Shed of the Year competition. I hope it is still to come. Best wishes, **Gordon Cook**

Hi Gordon, thanks for getting in touch. Yes, we were disappointed too as we've really enjoyed covering it over the last two years, but unfortunately it seems that this year we were missed off the PR agency's distribution list. I have since got in touch and have brought this to their attention, and they assure me they will contact me in March once plans are underway for SOTY 2018. The winners were announced in May, with the overall winner being Ben Swanborough's 'The Mushroom House', which is full of quirky touches, including its own trap door, a hidden treat shelf and glass floor overlooking a stream at the bottom of the garden. You can see the full list of winners at www.readersheds.co.uk.

We will be covering the 2018 competition in detail, so look out for some fantastic features next year.

Best wishes, **Tegan**



Ben Swanborough and his winning shed – 'The Mushroom House'

Most of the wood used in the shed build is red western cedar, including cedar shingles on the roof

Magazine indexing

Hi, can I ask why there is no index for articles in *Good Woodworking* when there is one for *The Woodworker*? This query was spoken of in 2010–2012 but nothing seems to have happened – why is that? It would save a lot of inconvenience for readers. Please may we have one or explain why not? **John**

Hello John, and thanks for your email. That is indeed a good question and I wish I could give you a more definitive answer, but the truth is that I'm honestly not sure why an index has been compiled for one magazine and not the other. This is something I have been doing, however, since I started, which I know isn't particularly useful now, but hopefully will be in a few years' time. Unfortunately, due to the magazine operating on such a small staff scale, I don't have any free time to go through every copy and catalogue the contents, but if there are any readers out there who may wish to help, then please let me know – we may be able to reimburse you in some small way!

In the meantime, if you're looking for a specific article, project, technique, etc. then let me know and I will do my best to locate it for you using my back issues.

*Apologies again for this omission, but it's something I'm doing my best to rectify. Thank you for getting in touch and we hope to one day have a fully searchable GW online index for readers, as with WW. Best wishes, **Tegan Foley***



One day, we hope to be able to compile a fully searchable online index for GW, as with WW

WRITE & WIN!

We always love hearing about your projects, ideas, hints and tips, and/or like to receive feedback about GW's features, so do drop us a line – you never know, you might win our great 'Letter of the Month' prize, currently the new Trend 1/4in 30-piece Router Cutter Set, worth over £100. Simply email tegan.foley@mytimemedia.com for a chance to get your hands on this fantastic prize – good luck!



TIMBER CONVERSION ON INSTAGRAM

This month, we're doing things a little differently, so thought we'd show you some of the most exciting online timber conversion images, courtesy of one of our favourite social media tools: Instagram – enjoy!



Now that's what I call timber conversion! Photo courtesy of @woodwork_art



@blakebespokefurniture with a beautiful felled oak that he's due to plank up



Inside a Japanese sawmill – courtesy of @yamaguchi.mokuzai



@oldsiamchiangmai wants everyone to know that acacia wood slabs are now available



@sailcargo with his huge collection of Spanish cedar



@woodmill_firewood – more orders = more supplies!



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@woodmizer shows off one of its industrial milling machines

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How to avoid planing peaks & troughs

Peter Bishop talks you through the process for correctly setting a planer/thicknesser and suggests reasons why you might not be getting the best possible cut

Over the top, surface planing is the first operation that should be carried out to square up your material; just like you'd do by hand. But sometimes these machines can be ornery beasts creating dips and troughs in your finished surface as you pass your workpiece over the in- and outfeed tables. There will be two main reasons for this malady: the first might be that the tables are not set up correctly, and, secondly, the cutters are positioned in the wrong place within their block.

Planing terminology

Firstly, let's clarify some of the planing terminology because the machines may come in various guises and names. A surface planer is a machine that you pass your workpiece over to plane the initial flat surface. When this is the only facility, the planer is often called a 'surfacer' or, possibly, a 'jacker' or even 'jack plane'. Most machines that we come across will have dual functionality so that when you have planed the initial face you'll be able to finish your wood to thickness by passing it back under the machine. These machines are then

commonly known as 'over and unders' or 'planer/thicknessers'. Larger, single-function machines are available whereby you simply pass your workpiece through to plane it to thickness. These are aimed at finishing wider boards and are often called 'panel' planers.

Surface planing setup

To keep things simple we'll take a look at the surface planing setup of tables and cutters. New or second-hand, your planer/thicknesser should already have the top infeed and outfeed tables set up correctly. The in- and outfeed tables should be parallel and level across their width. They should also be in true alignment in the length, but with a means to raise or lower both. If one of these settings is not correct, then some fine adjustment needs to be carried out. It is possible to check: across the width use 'winding' sticks placed on each table. To check laterally, use a long straightedge placed down the length of both tables without the cutters set in the block. You'll need to check out the machine's manual to see how any adjustments can be made. If 'way out' you may have to resort to engineering help! When you're having



trouble with the surface finish, it's always a good idea to check the table alignment before blaming the cutters.

Surface planing problems

Let's assume that the two tables are aligned correctly but the surface planing is still not right. Therefore it would be safe to suggest



PIC 1. The kit required to change my cutters



PIC 2. Take the old ones out and clean up all the wedges, springs and housings



PIC 3. Using the setting jig, each new, sharp cutter is fixed in place



that the cutters are not set parallel in the block or are not set correctly. If they are not parallel, then you've probably fixed the cutter blades into the block on the skew. Check it out and reset. If you've fixed the cutters incorrectly into the block and tried a piece, you might find two problems: the first occurs when the cutters are set too

low. In this case, the workpiece won't pass onto the outfeed table at all; it stops when it comes into contact with it. Lifting the leading edge onto the outfeed table will not solve the problem! If the cutters are set too high, you'll get onto the outfeed table OK, but what happens now is that the workpiece has too much taken off it to run smoothly

onto the outfeed table and rocks on the cutters. At some point you will get at least one trench appearing across the width of your piece of wood - not good. So it's imperative that the top, leading edge of your cutter blades, when set in the block, plane your workpiece so that it glides smoothly straight onto the outfeed table. >



PIC 4. The assembly looks like this



PIC 5. With a wooden straightedge, off the outfeed table, the cutter height is checked



PIC 6. On my machine this knurled winder adjusts the height of the outfeed table

Check the leading edge of the blades is set correctly before you start by using a simple, wooden straightedge. Place this down the length of the outfeed table overhanging the cutterblock one side at a time. Rotate the block by hand so that the leading edge of the blades pass under this straightedge. They should touch it but not raise it, or, if they do, only by the smallest of fractions. If you can visibly see the edge rising, then the cutters are incorrectly set, so start again!

Correct setup = good surface finish

Having sharp cutter blades set correctly in their block will produce good surface finishes. My machine, a MiniMax FS31, has a 305mm wide block with three cutters set into it. Each cutter is held in its slot by five small bolts that tighten a wedge against it. I have a simple, light alloy jig, supplied with the machine, that you use to set the cutting edges in line with the outfeed table. In its block slot, below each cutter, there are springs that lightly push the blade up against the jig. To get the cutting edge in its correct position, you place the jig on the blade in the block and gently force it down. The bolts are then tightened and, if all has gone to plan, the blade you're working on will be set fair. The middle bolt should be tightened first and then the others, working out from the middle. It's a bit of a fiddle but once you've got the hang of it, it doesn't take long. I suspect that most machines will have a similar system for setting the cutters in the block.

Using the planer successfully

Now with the planer set up correctly we're ready to rock and roll! Set your fence square on to the surface of your tables and away you go. The amount of waste planed off with each pass can be varied. The outfeed bed should be left well alone and lined up with



PIC 7. A cut partly made. You can clearly see that both bottom edges of the workpiece are in contact with their respective tables

the top cutting edge of the cutter blades. Variations in cut depth are then achieved by raising or lowering the infeed table. Higher less, lower more. If you want to 'ball off' lots of timber, you'll only be restricted by how low the infeed table will go, the type of wood being planed and avoiding blocking the machine up with waste chippings.

Please do try to use the guards and keep your 'pinkies' away from the cutter blades – always use a push stick. Many happy hours of planing should follow as long as you avoid any odd bit of grit or shrapnel!

I could now bat on about peripheral speed, feed speed and cuts per inch/cm etc., but let's leave that for another day... **GW**

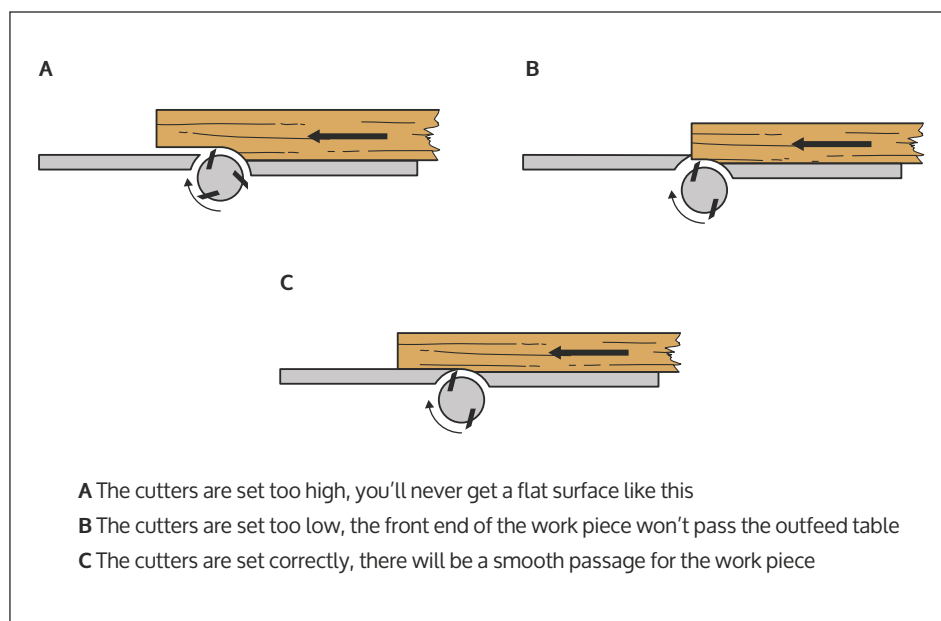


FIG 1. Diagram showing correct and incorrect cutter positioning

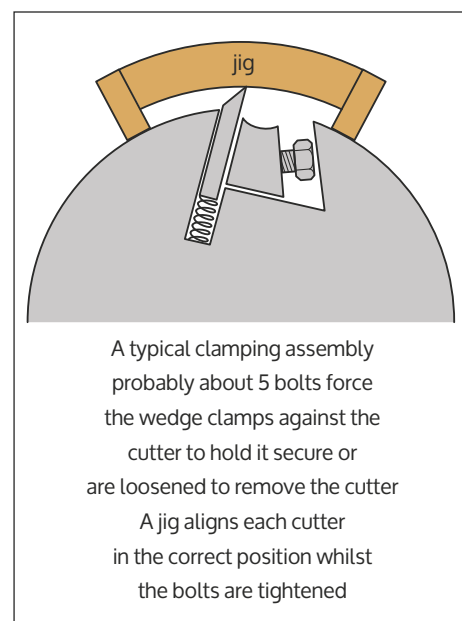


FIG 2. Diagram showing the side view of a typical cutterblock assembly



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Valentine's jewellery box

Mike McCrory uses stunning pieces of bird's eye maple and book-matched walnut to create a jewellery box complete with various interior trays



About a year ago I had a short piece of walnut with a big knot in it that I had almost discarded, but out of curiosity I decided to re-saw it with my bandsaw to see how it would look when book-matched (**Pic.1**). It ended up looking quite impressive and I thought it would make the perfect top for a jewellery box. I decided to glue it up and then set it aside for a few months to wait until we got closer to Valentine's Day.

Box sides

I decided to use a highly figured piece of bird's eye maple for the sides of the box, and another piece of book-matched walnut for the bottom. For the proportions of the project, I used the Golden Ratio to help determine the appropriate length and width of the sides. Computed as 1.618, the Golden Ratio is the ratio of the length to the width of the box (**Pic.2**). Based on the size of the walnut top I had, I chose a length of 370mm and a width of 229mm. I wasn't sure of the exact height at this point, but I was targeting one of approximately 125mm.

The bird's eye maple had some twist in it, so I rough cut the timber until it was long enough to form one length and one width of the box (**Pic.3**). That way, it would reduce the amount of jointing that I'd need to do in order to remove the twist.

I then jointed the maple (**Pic.4**) so that it would be flat on one side, and then ran it through the drum sander to make it flat and parallel on the other (**Pic.5**). For different types of wood, you could do this with a planer/thicknesser, but bird's eye maple tends to tear-out easily, so it's preferable to use a drum sander if you have one at your disposal. Next, I used the bandsaw to re-saw the board in half down the middle so it was approximately 15mm-thick (**Pic.6**). This

is just the rough dimension that I would sand down with the drum sander; the final dimension after sanding was 12mm.

Box bottom & glue-up

Then, I followed a similar process with the walnut to be used for the bottom of the box. I cut this on the table saw, jointed one face and one edge, then used the bandsaw to re-saw the wood (**Pic.7**). In this case, I was aiming for a final dimension of 6mm, so I





PIC 1. The initial board of walnut



PIC 2. Calculations for working out the Golden Ratio, or Golden Rectangle



PIC 3. Cutting the maple sides



PIC 4. Joining the maple face



PIC 5. Using a drum sander to sand the maple flat



PIC 6. Re-sawing the box sides



PIC 7. Re-sawing the walnut bottom



PIC 8. Sanding the pieces for the bottom

re-sawed the wood to be about 10mm, which allowed me to remove the saw tooth marks with the drum sander. When sanding the pieces for the bottom, I didn't sand all the way to the final thickness (Pic.8); I would do this after the book-matched glue-up. After testing the book-matched fit and alignment, I applied glue to the edge of the bottom pieces (Pic.9) and then clamped them together.

I used two large rubber bands to clamp the edges together, and then clamped boards on the top and bottom to help ensure the board would glue up flat (Pic.10). Once dry, I passed the bottom through the drum sander to remove any excess glue, to flatten the board, and to arrive at the final 6mm thickness (Pic.11).

Box joints

I cut the bird's eye maple pieces into the correct lengths for the sides of the boxes (370mm and 229mm) by using a stop block attached to the mitre gauge to ensure that the lengths of the cuts were repeatable. I then used some scrap pieces to set up my box joint jig so that I would have a tightly fitting box joint (Pic.12). Prior to using the jig, I marked the top edge



> PIC 9. Applying glue to the edge of the bottom pieces



PIC 10. Gluing and clamping the box bottom

of each side piece (Pic.13). This is important so you know which way to orientate the boards when cutting the box joint. In my case, I always have the top edge of the piece facing towards the centre of the jig (i.e. facing to the left).

I then cut the joint with the jig and blade set up for 6mm cuts (Pic.14). It is not difficult to cut a box joint; it's just important to keep track of the orientation of each board, and to position the adjoining boards (i.e. the end pieces) to be in the correct position so that the joints line up properly. For more information on how to set up and use the INCRA iBox jig, you can find my video on YouTube. After cutting the joints, I tested the fit and everything was nice and tight (Pic.15), just the way I like it to be.

Prior to gluing up the sides of the box, I routed a 6mm dado to fit the bottom panel. If this box were made with mitre joints, I would be able to rout the dado all the way through,

but with a box joint, I have to start and stop before the end. I did this by having stop blocks set up on my router table, and then proceeding carefully in order to maintain control of the piece. I then sanded the interior faces of the board prior to gluing them up, before applying tape along the edge of the joint on the interior face, which would prevent any squeeze-out from sticking to the wood (Pic.17). After applying the glue on the fingers of the box joint, I inserted the bottom panel into the dado slots (Pic.18). I did not apply any glue to the dado slots or to the panel, which would allow the panel to freely expand and contract. Next, I clamped up the box, being sure to check that everything was square (Pic.19), and after the glue had cured, I used the belt sander to clean up the joints in order to remove any excess material (Pic.20). I decided to chamfer the bottom edge to give the box a modern look



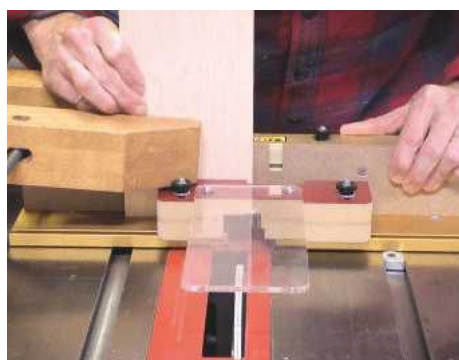
PIC 11. Passing the bottom through the drum sander to remove any excess glue



PIC 12. Box joint test fit



PIC 13. Marking the top edge of each side piece



PIC 14. Cutting the box joint



PIC 15. Box joint test fit revealed – nice and tight, which is what we're looking for



PIC 16. Routing a 6mm dado to fit the bottom panel



PIC 17. Applying tape to prevent any squeeze-out from sticking to the wood



PIC 18. Inserting the bottom panel into the dado slots

(Pic.21); this would also eliminate the need to add feet or some kind of base, then I used a 6mm roundover bit on the corners of the box, which helps to give it a softer look.

The lid

It was then time to start working on the lid. I began by cutting a 6mm wide rebate along the top edge that was 5mm deep (Pic.22). The book-matched top panel would sit inside this rebate so that it was flush with the top of the edge. I then cleaned up the ends of the rebate using a chisel in order to achieve square corners (Pic.23). Next, I cut the top panel to the correct size in order to fit into the rebate (Pic.24). I didn't want to glue the top panel into the recess to allow for the expansion and contraction of the wood, so I decided to use rare earth magnets. The rebate in the top was only 6mm wide, so I used magnets

that were 3mm in diameter (Pic.25).

Using the drill press, I drilled recesses into the rebate along the top to hold the magnets, then I drilled recesses in the same locations in the top panel (Pic.26). This required careful measurement and drilling: the magnets were so small that any deviation would cause them to not line up. The next step was to cut the box on the bandsaw to create the portion that would serve as the lid (Pic.27). I made the cut on the bandsaw rather than a table saw, which would help to minimise the amount of waste and ensure the grain pattern would match. I inserted the magnets into the top and top panel, ensuring to keep track of the polarity so that the magnets would attract each other rather than repel. I then glued the magnets into place using epoxy.

Next, it was time to work on the hinges for the top, and I used a sharp knife to mark their positions >



PIC 19. Clamping up the box and checking for square



PIC 20. Sanding the joints in order to remove any excess material



PIC 21. The chamfered box bottom



PIC 22. Cutting a 6mm wide rebate along the top edge that is 5mm deep



PIC 23. Cleaning up the ends of the rebate using a chisel



PIC 24. Cutting the top panel to the correct size in order to fit into the rebate



PIC 25. One of the 3mm wide rare earth magnets



PIC 26. Drilling the recesses for the magnets



PIC 27. Cutting the lid using a bandsaw

(Pic.29). A knife blade is much more precise for marking a small hinge rather than using a pencil, and it also creates an initial cut to help position the chisel. I only had two hinge mortises to cut, so I made these by hand using a sharp chisel. I tested the fit frequently to ensure that I would have a tight fit around the hinge, and to ensure that the top of the hinge was flush with the wood. I used high quality hinges with brass screws. Since the brass screws are quite soft, there is a good chance that the head will shear off when screwing into hardwood, so if this happens, refer to my article on extracting broken screws (GW322). When using this type of screw, it is good practice to use a gimlet to create a threaded hole for it (Pic.30). After creating the holes with the gimlet, coat each screw with a bit of paste wax so that they will enter effortlessly into the wood (Pic.31). After attaching the hinges, you can drop the top panel into the rebated top, where it will be held in place by the rare earth magnets (Pic.32).

Interior trays

Next, it was time to build the interior trays for the jewellery box. For the bottom of the trays, I followed a similar method to that used for the bottom of the jewellery box, but this time I used bird's eye maple. I milled the wood down to a 6mm thickness and then used rubber bands to glue up the book-matched pieces, with cauls clamped to the top and bottom to ensure the piece would be flat (Pic.33). For the sides of the trays, I cut the 6mm wood with the table saw into 35mm strips (Pic.34). I cut the lengths that I'd need to have a single tray in the bottom sized to the interior dimensions of the jewellery box, and two trays in the top. I then mitred the ends of the strips with the blade set at 45° and with the help of a stop block on my mitre gauge to ensure that the lengths were cut consistently to result in a tray with 90° joints.

An easy way to glue up a box with mitred joints is to line up all of the pieces in a straight line and attach them together using masking

tape (Pic.35). Then, it's just a matter of flipping it over, applying the glue, and folding it up into a rectangle while the tape holds everything in place. I then added tape on the outside, which would apply light clamping pressure while the glue cured, and after the glue had cured, I cleaned up the joints on the belt sander (Pic.37).

To create interior sections inside the trays, I cut a slot into the centre of each of the cross-pieces using a 6mm blade and then assembled them together with a little glue (Pic.38).

The last thing to do with the trays was to insert splines into the corners to give the mitred joints a little more strength. I used a spline cutting jig on my table saw to hold the tray at a 45° angle while I made the cuts using a 3mm blade. It is important to use a blade that has teeth with flat tops in order to achieve the appropriate slot cut. Then, I inserted the walnut splines into the slots using some glue and left it to cure overnight (Pic.40), and once ready, I trimmed the excess spline material with a



PIC 28. Inserting the magnets into the top and top panel



PIC 29. Marking hinge positions



PIC 30. Using a gimlet to create a threaded hole for the screw



PIC 31. Coating the screws with paste wax



PIC 32. Dropping the top panel into the rebated top



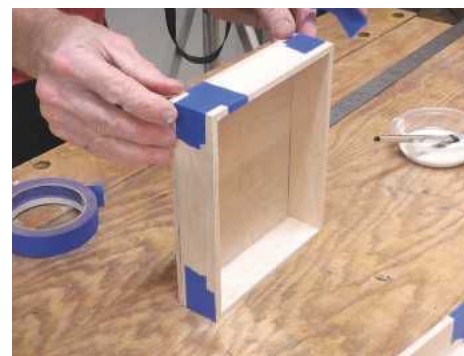
PIC 33. Gluing and clamping the tray pieces



PIC 34. Cutting the sides of the tray (PLEASE NOTE BLADE GUARD HAS BEEN REMOVED FOR CLARITY)



PIC 35. Taping the tray pieces together using masking tape



PIC 36. Adding tape to the outside of the tray

flush cut saw (**Pic.41**), then cleaned up the remaining excess on the belt sander.

Finger lift

The final thing to do with the box prior to applying the finish was to add a finger lift. I cut out a portion of the middle of the front edge of the box, using the router with a bit

that was set to cut 6mm deep (**Pic.42**). I used a stop block to control the end points, before using a chisel to square up the corners (**Pic.43**).

For the finger lift, I inserted a small strip of walnut that was 6mm-thick and clamped it in place while the glue cured (**Pic.44**), then, I hand sanded the box using 320 grit abrasive prior to

applying the finish. I chose to apply the finish in two stages: first, I applied a coat of dewaxed shellac to seal the wood, then after the shellac had dried, I sanded the box lightly with 320 grit abrasive, removed all of the dust, and then sprayed everything with four coats of a satin finish lacquer; this gave the final piece a very professional-looking finish. **GW**



PIC 37. Cleaning up the joints on the belt sander



PIC 38. Assembling the cross-pieces once cut



PIC 39. Cutting splines into the corners of the trays



PIC 40. Inserting the walnut splines into the slots using wood glue



PIC 41. Trimming the splines using a flush cut saw



PIC 42. Routing the finger lift



PIC 43. Using a chisel to square up the corners



PIC 44. Clamping the finger lift



PIC 45. Applying shellac to the top of the box

FURTHER INFO

You can find out more about Mike McCrory and some of his other work by visiting his website:
www.woodumakeit.com

And to see a video of the making of this project, visit Mike's YouTube channel:
www.youtube.com/woodumakeit



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Some students on TRADA Technology's grading courses

How to select the correct grade of timber for the job in hand

Peter Bishop provides some guidance on choosing the correct grade of timber to use and suggests various ways in which this might impact on your projects

Working with wood can be challenging at times. If, at the outset, we don't select the correct grade and quality of wood for the job or jobs in hand, we can often end up having to make another component, make a repair, or simply produce too much waste. Hopefully most suppliers will be knowledgeable enough to help us avoid issues like this. However, sometimes we need to make a decision when faced with a choice of what grade to use and how that might impact on the project we're working on.

Here, I'm aiming to provide some guidance when options are being offered to you. The following information refers to visually graded, sometimes called appearance or commercial grades. These mainly apply to hardwoods and quality

softwoods. Visual grading should not be confused with mechanically stress-graded material, which is used for constructional purposes. This is a bit of a 'dry' subject, so bear with me and I'll try not to bore you too much!

Back to basics

Let's not forget that timber is a natural product so therefore each tree, plank and piece of wood is quite individual; that's what makes it so attractive to us. Some of these variations are seen as defects by one person and features by another. But one thing for sure is that 'grades' of timber should be used as a guide to the general quality likely to prevail but, in the final selection, the end use will determine exactly what is required.

As our timber resources diminish, for whatever reason, we should all make the

effort to utilise what could be called the 'lower grades'. This might mean correctly selecting the best timber for the 'faces' of a project and using the poorer quality, or cheaper substitutes, for the sub-framing and hidden work.

Efficient use of wood resources

In recent years, a number of organisations have partly succeeded in promoting lower grades of timber. For example, American and European oak, with a greater preponderance of knots, is being marketed as 'character' oak. Also, in some countries, there has been a concerted effort to laminate hardwoods, in length and width, to better utilise the yield from smaller trees. Lately we have also seen a greater use of man-made boards, such as MDF. Once faced with a thin veneer, of the timber of choice, MDF provides a number of advantages over solid wood. We should, where we can, consider a substitute material that utilises our wood resources more efficiently, or that which has an economical benefit to the country of origin.

Softwood grading

Generally softwood grading is based on a 'defects' system. This means that the grading rules, as set out, define the maximum allowable size of the defect for each of the grades in relation to the size of the piece of timber. Phew, I hope you got that! Therefore, one large defect in a wide board may be as acceptable as a small one in a narrow board with both qualifying for the same grade. In other words, the

percentage of affected face of a board is the critical element. Defects taken into account when grading are: knots, splits, twist, cup, bow, ring width, wane, sap-stain, pitch pockets and rot.

Fig.1 below shows a fairly simple way of comparing different classifications of grades from different sources. The rule of thumb is that 'clears' should be virtually defect-free and suitable for those special jobs; 'unsorted' will contain a fair amount

of good material and be suitable for most joinery projects, and the rest gets progressively poorer in quality with the increasing numbers.

Another broadly based rule of thumb would be to look at material from North America, (clears), for the best quality, Scandinavia and Russia for the next, (unsorted), and whatever is left, tongue in cheek, probably drops into the 'knotty pine' bracket!



Some typical wood grades

Source	Grades Highest...			... Lowest
UK/Europe	I clear	I, II	III	III
Scandinavia Poland & Eastern Canada		I, II, III, IV (unsorted)	V	VI
Russia & the Eastern European region		I, II, III (unsorted)	IV	V
British Columbia & Pacific Coast of North America	No.1 clear No.2 clear No.3 clear	Select merchantable No.1 merchantable	No.2 merchantable	No.3 common

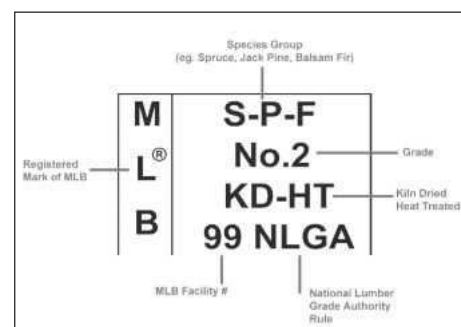
FIG 1. A fairly simple way of comparing different classifications of grades from different sources

Shipping marks

It's worth noting at this point that many primary lumber production mills end mark every piece of timber with a shipping mark defining their grading interpretation. These often take the form of 'stars', 'crowns' and capital letters stamped onto the ends of each board. These shipping marks provide a mine of information to those in the know. They can provide the country of origin, the mill from which that particular production was produced, the shipper, grade and specie. Although grades tended to be

very consistent in the past, from a certain mill's production, today, as various different sources are combined, this may not be the case.

As a rough guide when looking at shipping marks, 'clear' is stamped on the faces of boards from North America, and 'crowns' or 'stars' on the ends from Scandinavia and Russia respectively. There will be other letters or numbers stamped on the ends and faces as well. The more stars and crowns you can find on each plank, the better the quality should be. >



Typical examples of grading stamps



Various softwood end marks



Jointing short lengths

Utilisation was mentioned earlier. Due to the pressure on resources and increasing costs of raw materials, some softwood used in joinery has been jointed, in the length, with a simple 'finger' joint. This type of utilisation is excellent as it uses up a lot of short lengths that would otherwise be wasted. If the project in hand is to be painted, then it makes no difference. In fact, probably, the pieces of wood will be more stable overall. The practice of jointing short lengths has also extended to hardwoods.

Hardwood grading

There is a confusing number of hardwood grading systems – some similar to those applied to softwoods, some not. The most popular form is based on the 'cutting system'. The object with this system is to assess the amount of usable/defect-free timber in relation to the whole board. Assessment is usually made through a notional rectangle of 300mm.sq. Definition of the grades follows the establishment of minimum areas of cutting acceptable as a fraction of this whole, notional piece.

As a result, it's assumed that a perfect piece of lumber would be defect-free for $\frac{1}{2}$ ths of its surface, the total area of the notional piece. As the grade of each plank is assessed it may be $\frac{1}{2}$ ths, $\frac{1}{4}$ ths, $\frac{1}{8}$ ths and so on.

It's best to ask your supplier which grade of timber to use if you're not sure. There are so many that you may be able to buy a substitute at a cheaper price! Durability is not too much of a problem for timber used inside but requires careful thought for external applications, so therefore also take advice here when necessary.

Similar to the crown and star marks found on some softwoods, you might also find end marks on hardwoods. Generally marked with two or three different colours in patches on



End marks on African hardwood

NEXT MONTH

In the next part of this series, Peter asks 'what is a timber defect' before identifying the range of common defects that woodworkers should look out for

Sources	Grades Highest...			... Lowest
UK/Europe Square edged Unedged	1	2	3	4
	10/12	8/12	6/12	3/12
	11/12	10/12	9/12	8/12
America/Africa/ Australia South East Asia	Firsts	Seconds	Selects	No.1 common
	11/12	10/12	6/12	8/12
	Prime 10/12	Selects 9/12	Standard 8/12	

FIG 2. This table outlines the most likely grades and clear cutting units to qualify with the associated common source



Learning how to grade under NHLA lumber rules

the ends, maybe with some contrasting spots over-painted or even simple crosses.

Producers also tend to stencil names and grades right across the side of each stack of banded lumber, especially from America. Alternatively, you may find a simple 'prime', top quality, or 'FAS', a combination of first and second grades, stamp on the face of each board.

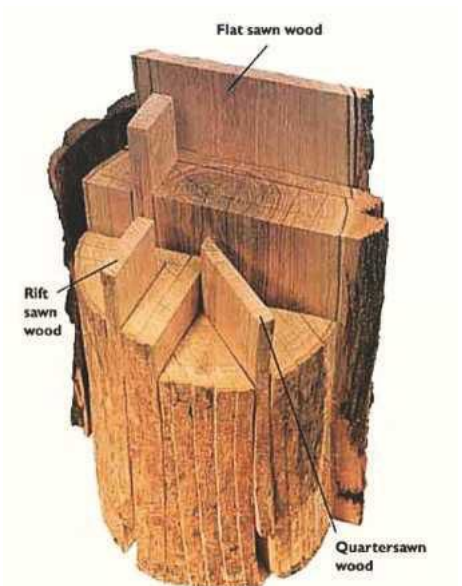
It's always best to look carefully at what you are buying. Understanding how the different grades interact with each other

is useful as is knowledge of where each board might have been cut from the log.

Visual grading, be it for hardwoods or softwoods, can vary slightly from producer to producer. It's often not a fine art but more of a 'black' art! I guess the key issue from a maker's point of view is to ensure we use the best stuff as show wood and the worst for the carcassing, etc. Nothing has changed, really – this is what all our predecessors have done. Just take a look at how an antique piece of furniture has been made. **GW**



Producers' pack marks



A visual guide to show how different cuts are made

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A passion for timber

Garry and Shaun Stevenson share the story of how a passion for quality raw materials led to the development and continued growth of their business



TOP: A small selection of the many tools on sale in the G&S shop

ABOVE RIGHT: Inside the timber warehouse

ABOVE: An oak stack being loaded into the heat vent kiln

Back in 2002, Father and Son team, Garry and Shaun Stevenson, decided to make a career change in order to pursue an interest in woodturning and crafts. They set up their workshop in a converted barn in Stainton, a village nestled just outside Penrith, in Cumbria. The workshop was also located on the same site as the Alpaca Centre, a high-quality clothing store owned by Garry and wife, Joy.

Quite a workshop

The workshop measured 9 × 9m and included a Harrison Graduate lathe, a big Wadkin lathe – and all-important dust extraction – a bandsaw, and all the necessary accessories to produce woodturnings for the home. It all seemed to be going well for them as they sold their wares in the Alpaca Centre next door, with the exception of the hardwood blanks they were buying in for the turnings. They found the blanks had not been kiln-dried properly, which resulted in cracks on completion. This was proving to be costly – both in the purchase of the blanks and on wasted time. As such, they came up with the idea of converting their own timber for turning and selling the surplus blanks to other woodturners.

The arrival

They purchased a tractor and forestry trailer to pick up locally felled logs and travelled all over Cumbria... at 30 miles per hour. A wide variety of species were picked up and taken to a local softwood sawmill for conversion,

and once back in the yard, the timbers were stacked for air-drying. It was decided that there would be no compromises on the quality of the wood, so slow drying was the order of the day, followed by kilning in a high-tech, fully-computerised kiln that had been installed at the back of the workshop.

Once they had some dry timber, they partitioned off half of the workshop – a 4.6 × 9m space kitted out with basic shelving – in order to display the blanks. With some minimal advertising (and fingers crossed) they waited for customers to arrive while turning in the now-diminished workshop, but arrive they did and G&S Specialist Timber was born.

Heavy work for two

One year on, and it was clear that the sawmill they were using was too small to cope with large hardwood logs, meaning they were left with the challenge of finding and installing a suitable sawmill in the G&S premises. They found a Stenner 60 sawmill – a massive bit of kit with a 9.8m saw blade – which took 10 weeks, 11 loads of concrete, one huge crane, and many man hours to install.

The first time they switched the saw on was a nerve racking experience, but all the machinery worked well and soon they were milling logs up to more than 1.2m in diameter. Garry and Shaun were now selling the blanks and dry hardwood boards in the shop and converting the logs ready for air-drying in between customers; quite a task, and heavy work for two.

As more customers were arriving for wood,



LEFT: An oak log being processed



LEFT: This tractor with Botex forestry trailer is capable of lifting 2.5 tons



BELOW: The G&S reception area

they often asked why Garry and Shaun didn't sell tools for woodturners. This seemed to be a great idea, so they began with Robert Sorby, Hamlet Craft Tools, Chestnut finishes, and gradually increased the brands, year on year. This meant that they now had to employ staff; the first person who joined them, John Lake, was an ex-engineer who had some woodworking experience. John was a great addition to the crew: very hard working, eager to help take the business forward, and very capable with the woodworking machinery. He was also a great laugh to work with and, even though he has now been retired for some three years, the Stevenson family still misses him.

Top tools & brands

As the stocks of tools increased, so did the floor space of the shop, gradually diminishing Garry and Shaun's workshop space until there was none left for them at all. In 2008, a 464sq.m warehouse was erected on site for timber storage and this extra room gave the opportunity to develop a machining workshop; this led to sales nationwide and even the supply to some films, such as *Hercules*.

A joinery department was developed in the new warehouse that produced bespoke stairs, windows, doors, trusses, and built-in furniture, among other items. They were keen to stock top quality tools, and successfully secured supplies of brands including Lie-Nielsen Toolworks, Pfeil Tools, Robert Sorby, Colt, Jet Machinery, and many more. In 2016, they secured the dealership of top quality woodturning lathes by

German manufacturer Hapfo, which makes both hand turning lathes and CNC copy lathes. Finishes include Osmo, Treatex and Chestnut products, and earlier this year, they secured the dealership of paint and paper company, The Little Greene.

Their website has greatly assisted in securing work all over the UK and beyond, and there are now over 14,000 products to choose from. G&S has also increased staff levels year on year and now employ 18 people. Due to the increased workload, they have again run out of space and are planning an extension to the warehouse for the joiners; this will provide the option of increasing the joinery alongside with extra space for the timber stocks – watch this space! **GW**



LEFT: The Stenner 60 bandmill has a 229mm x 10m blade. When in use it has 10 tons of tension and the motor requires 150Kva to start the saw blade – certainly an impressive machine!

FURTHER INFO

G&S Specialist Timber are specialist hardwood timber merchants who provide high quality woodworking tools and machinery. They are certified by both the Forest Stewardship Council (FSC) and the Programme for the Endorsement of Forest Certification (PEFC). To find out more, see their website: www.toolsandtimber.co.uk

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Converting timber into functional projects

Les Thorne demonstrates the different types of turning projects that can be made using fresh, green timber

As a production turner specialising in the architectural, I always seem to be working with dried timber. Invariably nowadays that means kiln-dried wood as opposed to air-dried stock. Those of you lucky enough to work with air-dried will know that this type of drying leaves the wood with some flexibility in it whereas kilning tends to make the wood brittle and dusty. If I had to describe the difference between the two I would liken them to cheeses: the kilned crumbly stilton to the flexible edam. The issue with air-drying comes with the stability of the wood, especially in our centrally heated world where you can experience all sorts of problems with splitting. 100mm oak

has been an issue for me for a number of years as it's difficult to air-dry and great care has to be taken when kilning to ensure you don't end up creating checking in the timber. Getting stable oak in that size usually requires you to pay a premium or have the stock laminated up out of smaller sections. As turners, we often get the call from tree surgeons asking whether we would like to take some timber they've felled. I'd normally say no, but I couldn't resist putting some ash and sycamore in stock when I was offered some recently. I thought that it would be useful to show what can be made from fresh timber, either roughing out or straight to the end of the project. **GW**

Roughing out a bowl



STEP 1. I'm lucky to have a small local sawmill that does my timber conversion for me by cutting it into the required plank sizes. The ash is fine stacked horizontally, but ideally, the sycamore should be dried on end to prevent it going grey



STEP 2. The 120mm-thick sycamore is going to be used for big bowls, so I'm going to make some projects from the slabs. The ash is a little drier already and this is evident from the splits in the ends of the logs



STEP 3. The piece that I have cut off has given me two bowl blanks. The one for the rough-out has had the majority of the bark removed and is cut round after marking out with a compass



STEP 4. The one with the natural-edge is difficult to draw a circle on, so I have a series of discs that I screw to the top and then cut around. I would like to have kept the bark on this piece but the tree had been cut down for too long and unfortunately it had all fallen off



STEP 5. Cutting green timber on a bandsaw requires a good coarse blade with no more than a 4TPI blade and ideally one with only 3TPI. You can see the build-up of resin on the inside of the blade; if you let this get too bad then the saw will cease to cut accurately



STEP 6. This is the amount of timber I ended up with from the small section of slab that I cut off: two bowl blanks, a 75mm square, and a 50mm square section. The squares will have their ends sealed and be put in the wood store for use on future projects



STEP 7. When roughing out, I like to get the timber removed quickly and there is no better tool than the 13mm bowl gouge with a freshly sharpened long-grind. You can really hog the timber off with this tool



STEP 8. The spigot that you use will shrink, so you need to allow a little more diameter than you would normally. The step to the left of the spigot will add strength and accuracy to the fixing and allow quicker removal of wood from the inside



STEP 9. The versatility of the gouge allows me to make my preferred push cut to true up the blank. When you have done this, it's worth checking for any small splits in the end-grain



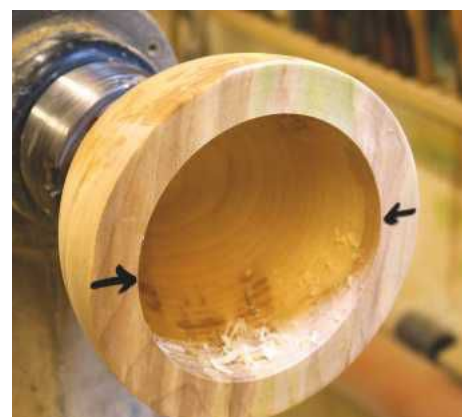
STEP 10. When the outside is completed, put the spigot in the chuck and true up the top surface. This is a great opportunity to practise your tooling techniques; I often try out a texture on a rough-out, because if it looks awful, I just turn it off



STEP 11. I need to quickly remove the wood from the middle. As I have to dry this bowl I will not get paid for ages, so I want to waste the minimum amount of time on it now. I get a real buzz from making these shavings!



STEP 12. To give the bowl every chance of drying without splitting, you need to get the wall thickness pretty even, so use callipers to measure, which will ensure you get it right. The photo shows the moisture that's coming out from the end-grain when the wood is spinning



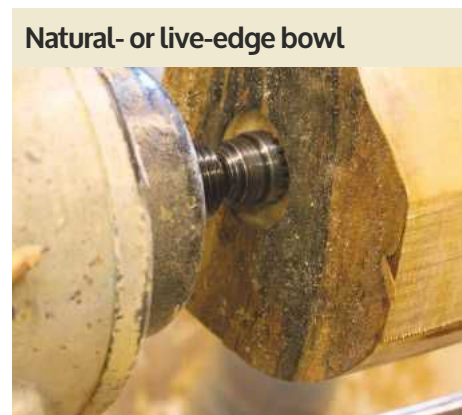
STEP 13. These two arrows show the way the bowl will shrink while drying: the side-grain will move towards the middle, thus making the bowl oval. You need to have enough wall thickness to allow for this; about 25mm is about right on a bowl of this size



STEP 14. As we saw in the other photo, the moisture wants to come out from the end-grain much quicker than the side-grain, so for this reason I seal the end-grain with a product called End Seal, which will slow the process down and hopefully stop the splitting that can occur when you dry timber quickly



STEP 15. Here's a few I made earlier and they will be put in my drying room. Drying these bowls seems to be an art rather than a science and you can still have a few split on you for no reason, but by following my tips you are stacking the odds in your favour



Natural- or live-edge bowl

STEP 1. I like my natural-edge bowls to have an even top, so I mount the blank between centres as this allows me to adjust the wood in order to get the best shape. The large Steb centre is fine for using on wet wood, as long as it's not too soft



STEP 2. As I'm going to use as small a spigot as possible, I need to make it accurate. In this position, the jaws make a perfect circle so I transfer the measurement to the bottom of the bowl using dividers



STEP 3. If I had retained the bark on the bowl then the last cuts here would be made from the left to try and keep the bark intact. To allow for the intermittent cut, make sure you don't feed the tool too quickly



STEP 4. Bert Marsh, the greatest British natural-edge bowl turner, always said that shape was everything and I'm pretty pleased with the curve I've achieved here. Don't sand at this stage as it's more effective to do it once the bowl has been hollowed



STEP 5. I like to hollow the bowl with the toolrest across the front. I find that if you put the rest inside it starts to get in the way, making it more difficult to follow the outside curve. The 13mm gouge should be strong enough to work the whole bowl like this



STEP 6. Light is a great indicator of wall thickness. I am aiming for a thickness of about 5mm as this should allow the bowl to dry without splitting. The light method will only work on the light-coloured timbers, however



STEP 7. As I sweep the tool across the bottom, you can see that the light is pretty even now. The handle of the tool will need to be lowered as you go through the bottom curve, to ensure the bevel remains in contact with the surface



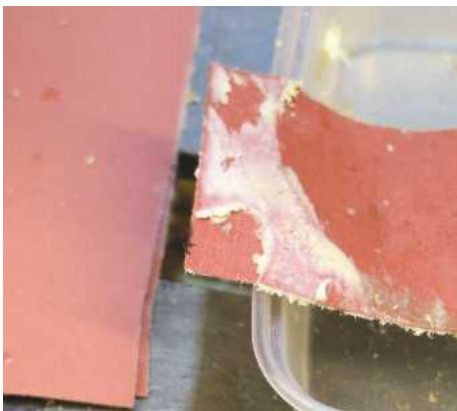
STEP 8. If you need to have a break while working on a project like this, you will need to prevent the timber from drying out so stuff the bowl with wet shavings or put a plastic bag over it. Sometimes I even spray the work with water from an atomiser bottle



STEP 9. Now's the time to sand the piece. I sand the work using the abrasive with water; this will keep the timber from drying out. Remember to keep the water away from any electric boxes or switches on the machine



STEP 10. To keep the pressure on the work even, I hold a piece of abrasive on both the inside and outside. If the timber starts to dry out, the walls will begin to go uneven and the whole process becomes more difficult



STEP 11. You don't get clouds of dust, which is obviously a good thing, and it's still sanding as you can see here. The bowl just needs to have the foot removed before applying a couple of coats of lemon oil when the wood is dry



STEP 12. The completed natural-edge ash bowl



Goblet

STEP 1. I love making goblets and it's a shame that I don't get the chance very often nowadays. The 200mm length of sycamore is mounted up and roughed to a cylinder



STEP 2. With one end held in a chuck, hollow out the bowl with a gouge. The end-grain can be scraped to a fine finish using a small-tipped scraper such as this one from Robert Sorby



STEP 3. While turning the outside down to the inside shape, stop the lathe regularly and check the wall thickness. If you make it too thick, the end-grain is likely to crack and ruin the finished work



STEP 4. Once the bowl part is completed, you'll need to sand it using the same wet sanding process as before. The detail at the top is important as it punctuates the change in direction of the curves



STEP 5. I prefer not to use tailstock support if I can help it, so I need to work the stem down to size in small increments and supporting the stem with your fingers will be necessary when the stem's diameter gets thin



STEP 6. You'll find it difficult to sand the stem unless you do it in stages during the turning. Any small lumps and bumps left from the tool can be smoothed down using a piece of 120 grit – obviously I didn't need to do this!



STEP 7. I couldn't resist putting this small gun barrel bead in the stem; I could have added a captive ring but it's the spindle turner coming out in me! The rest of the piece needs to be sanded before being parted off



STEP 8. Usually I don't leave enough wood at the chuck end to part off easily, but I did this time. The 10mm skew will part off and shear scrape the underside of the base. Like the bowl section, the base will need to be thin, but be careful as you don't want to break it at this stage



STEP 9. Wow, look at all the great shavings; my workshop looks like it's covered in tagliatelle! You will need to clean the wet shavings off the lathe as they make everything go rusty very quickly



STEP 10. The completed sycamore goblet

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BACK TO NATURE

The escapology of wood

‘Conversion’ is a funny term to use when talking of timber. It suggests an about-turn, a volte-face; a change of nature and disposition – or in a religious context, a change of heart and even identity. It might describe rocks becoming metal, sand becoming glass, or sheep becoming sweaters and stews, but in the transition from tree to usable timber, wood remains very much the same. It dries out, distorts and toughens up, but its character, its structural nature, remains the same, unlike cast-iron that loses tensile strength; pottery that loses malleability, and sheep that lose everything.

Perhaps the term is used for fundamental reasons. What is the difference between a tree and a plank of wood (this is not a joke)? Answer: a tree is vertical and a plank (with any respect for health and safety) is horizontal. Another difference? Trees are round and planks are square. And again; trees are not immediately useful to humans (treehouses excepted) but the whole *raison-d’être* of a plank is to be fit and ready for action building and furnishing our homes.

Good plank: bad plank

The biggest difference between a tree and a plank is more elemental yet. It is that when we see a tree, we see the outside of a tree but when we see a plank, we see the inside of a tree. The inside is nothing like the outside. The bark is fissured, knobbly and grey, whereas straight from the saw the wood is flat, patterned and golden. One of the most exciting parts of woodworking is opening a log. You don’t know what you will find. It could be wonderful: it could be disappointing, but what it definitely will be is hitherto unseen by anyone in the history of the world except you. It hasn’t existed until now: you have brought it into being. This might sound self-important or grandiose, but the skill of the sawyer, especially when converting an individual field-grown tree, makes the difference between a good plank and a bad one.

The reluctant convert

Conversion is not a happy process. A trunk sawn into planks stacked in stick still looks like a tree albeit a thin-sliced, Matisse-like exploded one. When those planks are taken, ripped down, shorn of bark and sapwood, squared up and cut to length, they seem to deny their origin. What was once their strength – the knot, which allows a branch of several tons to sway effortlessly in the breeze – becomes their weakness because it won’t plane well and, structurally, ironically and perversely, now cannot be relied upon. The tree has been emasculated. Cut and dried. Standardised. Neutralised; for it used to support a myriad of associated life forms. Now any remaining life is dehydrated and chemically eliminated.

Let’s not get too romantic. Some trees are cabbages. They are grown as a crop more efficiently than any vegetable, and they are (gratefully) harvested accordingly. Constructional timber as plain



Art Nouveau: woodwork for a dining room by Alexandre Charpentier, 1900–1901

and straight as you like is an indispensable part of modern life. Even this can be used with sensitivity, but I’m really talking about denser timber that takes detail and finish.

Fine furniture often reinstates the curves that milling has so efficiently destroyed. With curves come movement, grace and tension – in other words, life. The rustic, haphazard and perfect balance of the tree is revived. No style of furniture does this better than Art Nouveau. Free-flowing forms emulate and celebrate nature. The skill involved is breath-taking. Timber, first robbed of its fluid lines has them returned as if the trauma of conversion has never taken place. Or rather, it has turned full circle. The living, breathing tree, straight-jacketed by straight lines, like spring shoots bursts its bonds. **GW**

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