

WOODWORKING

AT THE CUTTING EDGE

furniture & cabinet MAKING

£3.25
ISSUE 81
OCTOBER 2003

UNIVERSITY
Graduate



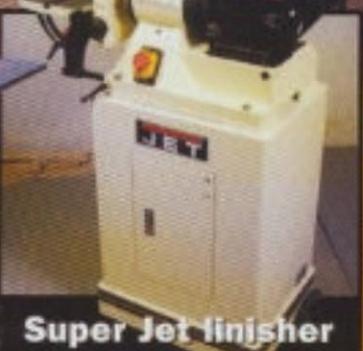
Smooth
operator

CAN YOU
VACUUM
VENEER
ON A
BUDGET?

Robert
Ingham –
Owning a Felder



Curvy side table



Super Jet finisher



Bedside cabinets



WIN!
A Hammer K3

PROMOTING EXCELLENCE IN FURNITURE-MAKING

Realise Your Potential! with FELDER's new 700 Series

An investment in woodworking machinery is an investment in your future. FELDER owners believe its better to grumble once when you buy rather than every time you have to work with average machinery. An interesting statistic, 70% of FELDER machines bought, are bought by woodworkers upgrading after the frustration of working with regular machinery. There's no reason why you too can't be one of the 30% that benefit from FELDER'S advantages from the beginning. Be sure to consider FELDER for your next investment in quality woodworking machinery and take the next step towards securing your future!

Quality and
precision made in
AUSTRIA



Call now for
your new catalogue
and free Video

01908-327 800

FELDER

... und Sie machen mehr aus Holz!

FELDER UK

Unit 80-82 Tanners Drive Blakelands Estate
Milton Keynes MK 14 5BP
Call 01908/327800 • Fax 01908/211161

www.ukfelder.co.uk

FELDER offers a complete range of Sliding table saws, Shapers, Planers, Jointers and Full combination machines

EDITOR

Colin Eden-Eadon
Email: coline@thegmcgroup.com

GROUP PRODUCTION EDITOR
Andrea Hargreaves

GROUP EDITOR
Mark Baker

SUB EDITORS

Tim Jones, Miriam Brent

EDITORIAL ASSISTANT

Karen Scott
Tel: 01273 477374, Fax: 01273 402849
Email: karensc@thegmcgroup.com

ILLUSTRATORS

Ian Hall; Simon Rodway

CHIEF PHOTOGRAPHER
Anthony Bailey

DESIGNER
Sam Reeves

ADVERTISEMENT MANAGER

Rhona Boger
Email: rhonas@thegmcgroup.com
Tel: 01273 402821, Fax: 01273 487692

DISPLAY SALES EXECUTIVE

Dan Large
Email: daniel@thegmcgroup.com
Tel: 01273 402826, Fax: 01273 487692

ADVERTISING CLASSIFIED SALES

Juliet Lambie
Email: juliet@thegmcgroup.com
Tel: 01548 537845

ADVERTISEMENT COPY

Icon Reproduction
Tel: 0207 357 7375, Fax: 0207 357 6725
Email: gmc@iconreproduction.co.uk

PUBLISHER

Paul Richardson

ART DIRECTOR

Ian Smith

PRODUCTION MANAGER

Stuart Poole

PRODUCTION ASSISTANT

Nicola Tilman

CIRCULATION MANAGER

Tony Loveridge

SUBSCRIPTIONS

Sue Bennett
Tel: 01273 488005, Fax: 01273 475800
Email: suelb@thegmcgroup.com

ORIGINATION

Icon Reproduction, London

PRINTER

TPL Printers

DISTRIBUTION

COMAG

Furniture & Cabinetmaking magazine (ISSN 1365-4292) is published 12 times a year for US\$80.90 by The Guild of Master Craftsmen Publications.

SUBSCRIPTION RATES

One-year subscription (12 issues) £39.00 US\$80.90 overseas £48.75
Two-year subscription (24 issues) £78.00 US\$161.85 overseas £97.50

Send your subscription to:

FURNITURE AND CABINETMAKING,
166 High Street, Lewes, East Sussex BN7 1XN, England
Tel: 01273 488005 Fax: 01273 475800

Cheques should be made payable to GMC Publications Ltd.
Current subscribers will automatically receive a renewal notice.

Views and comments expressed by individuals in the magazine do not necessarily represent those of the publishers and no legal responsibility can be accepted for the results of the use by readers of information or advice of whatever kind given in this publication, either in editorial or advertisements. No part of this publication may be reproduced, stored in a retrieval system or transmitted in any form or by any means without the prior permission of the Guild of Master Craftsmen Publications Ltd.

© Guild of Master Craftsmen Publications Ltd. 2003

INSPIRATION & PERSPIRATION

I realised the other day, in a moment of reflection, that I have been editor of *F&C* for 50 issues. In a quiet way I am proud of that fact. I have thoroughly enjoyed it, and still do!

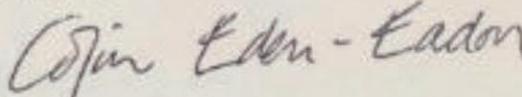
It has been both a formative and informative experience. I have learnt a huge amount, both about the people who make furniture and about furniture-making. There is an enormous richness of styles, techniques and people out there – that's what keeps me excited, and that's what I try to reflect in the magazine.

Talking of inspiration and perspiration brings me on to the colleges. As we announced in the last issue, Shrewsbury is to close and Hugh Scriven is going to head up the course at Bucks. It is a personal sad note, as for me that's where it all began. The only worry I have is that many colleges are offering more industrial design-related courses than fine furniture-making. Of course, this is the largest part of the industry, and an important part. However, even in this technological age, we still need people at the bench.

I think we have to be wary of courses becoming too computer led. I hope that Bucks will continue to fly the flag of fine furniture-making as it has in the past, and wish Hugh every success in his new post. *F&C* will continue its commitment to the cause – let's see you all at Westpoint for this year's Tools 2003 competition!

Two things to announce. First, a new series that I hope will become a regular – 'Makers' web'. The page will feature websites dedicated to furniture-makers, so all you computer-literate makers out there, send us your web addresses and we will feature them in the pages of *F&C*.

Secondly, readers may have noticed we are running a competition to win a Hammer K3 saw, which is a pretty nice piece of kit for any budding furniture-maker (see page 15). So get making!



P.S. You can now subscribe to *F&C* online: <http://www.gmcgroup.com>

Write to us!

If you would like to write a letter for publication on our letters page – or pose a question for our panel of experts to answer in print – please do write in! We'd also love to receive photographs of your work for publication in our inspiring Readers' Gallery. Or perhaps you'd like to be one of our authors? I am always happy to discuss ideas or receive articles submitted 'on spec' (make sure you enclose an s.a.e.). Drop me a line or an email to ask for our Authors' Guidelines, which provide advice on writing, photography and sketches.

Write to: Colin Eden-Eadon, Editor, *Furniture & Cabinetmaking*, GMC Publications, 166 High Street, Lewes, East Sussex BN7 1XN
or email: coline@thegmcgroup.com

Woodworking is an inherently dangerous pursuit. Readers should not attempt the procedures described herein without seeking training and information on the safe use of tools and machines, and all readers should observe current safety legislation.



PHOTOGRAPH BY ANTHONY BAILEY

furniture & cabinet MAKING

October 2003 Issue Number 81



REPORTS FROM THE FURNITURE FAIR 21



LAMINATING SKILLS 7



DESIGNING A COMMUNION TABLE 37



LIFE AT SHREWSBURY 50



MARVYN HOGG & ANDREW JONES

■ Regulars

- 1 Foreword
- 4 News
- 14 Makers' web
- 26 Q&A
- 47 F&C competition at TOOLS 2003
- 56 Subscribe to F&C!
- 76 Diary
- 78 Toolbox
- 83 Reviews
- 85 F&C Classics
- 96 Next month

■ Projects

7 Contemporary veneer

It wasn't the opportunity of making another set of coffee tables that appealed to **Jane Cleal** when she took this commission – it was the chance to brush up on her laminating skills.

37 Holy order

Norrie Dinning helps solve a parish problem by designing a portable communion table.

58 Walnut whim

Richard Jones talks us through his commission to make a pair of bedside cabinets in the style of an earlier exhibition set of drawers.

■ Feature

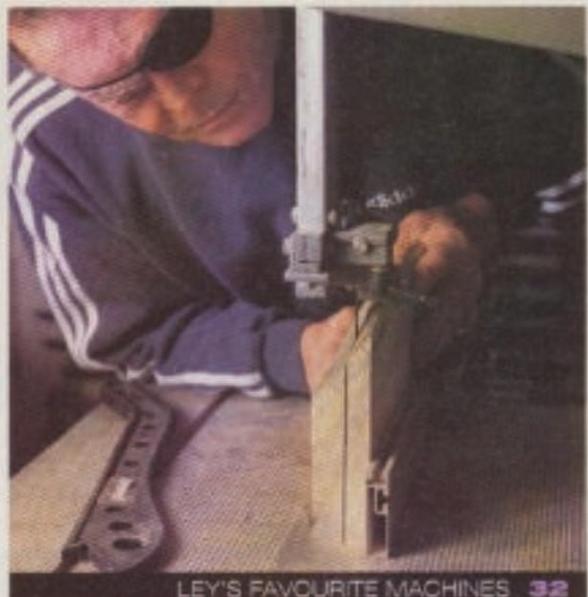
50 Timely tribute

As it's announced that Shrewsbury is to close the doors of its furniture-making course, graduate **Sarah Wells** tells us what student life was like at the renowned college.

In this



WE TEST A CLASSIC PLANE 25



LEY'S FAVOURITE MACHINES 32

■ Feature

21 Milano!

As the 25th International Furniture Fair in Milan once again reports excellent results, professional designer-maker **Tom Harrison** and Ryecotewood student **Nick James** give their verdicts on the event

■ Equipment tests

16 Universally useful

Professional furniture-maker **Robert Ingham** and enthusiastic amateur **Robert Hurran** explain why, from two different perspectives, the manufacturer Felder was a natural choice when it came to investing in a combination machine

25 Smooth operator

Colin Eden-Eaden and amateur woodworker **Stephen Haynes** see whether the classically styled Iles A5 smoothing plane reaches the same standards as its predecessors

43 Belt and braces

Colin Eden-Eaden gets to grips with Jet's cast-iron finishing machine and decides whether the sturdy sander would strengthen your workshop's armoury

■ Technical

32 Ley's ways

With space critical in most people's workshops, **Kevin Ley** continues to cast his good eye over essential machinery

65 Medieval muse

Michael Huntley delves into the history of the English Aesthetic and reveals how classical elegance made way for Gothic severity

70 Breath of fresh air

John Lloyd discovers the advantages of the electric vacuum press from Bagpress.com



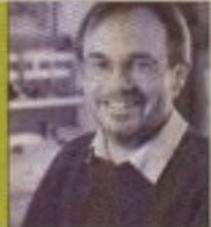
issue



THE AESTHETIC MOVEMENT 65

NEWS

Contact Colin Eden-Eadon with news items, which must be received at 86 High Street, Lewes, East Sussex BN7 1XN at least 12 weeks before publication cover date. Please include images wherever possible – transparencies preferably, or good prints.



Dead wood to good wood

It's not only local authorities that can make a difference. You can take positive action to make a difference by doing the following:

- Keep timber items as long as you can. Repair and reuse wherever possible
- Pass on any unwanted furniture via furniture recycling schemes. You can find details of local schemes by calling SOFA on 01924 375252
- Use reclaimed timber in any home improvement or garden projects. A list of dealers is published by Fauna & Flora and Friends of the Earth on the website www.goodwoodguide.com, or on www.salvo.co.uk
- Buy products made from reclaimed timber or wood from forests certified by the Forest Stewardship Council. Details of this are available on www.fscuk.demon.co.uk/retailers.html
- Encourage local businesses to re-use or recycle their waste wood. If you're having any work done on your house, ask builders to separate the waste timber

For more details on endangered trees and what you can do to help, visit the Global Trees Campaign website on www.globaltrees.org

What a waste

We're all encouraged to recycle our bottles, our paper, even our clothes – but what about our wood? It's estimated that every year three quarters of a million tonnes of reusable timber like floorboards, beams, doors and fireplaces is either dumped in landfill sites or burnt.

This is not only contributing to the world's forest crisis but it's also putting increasing pressure on our limited landfill resources. Dr Georgina Magin, Wood Waste Manager for the Global Trees Campaign said: "Increasing demand for wood and paper is putting great pressure onto the world's forests. A high proportion of the wood we harvest from the forest is wasted – discarded during manufacturing processes or thrown away as unwanted rubbish. The time has come to stop dumping wood."

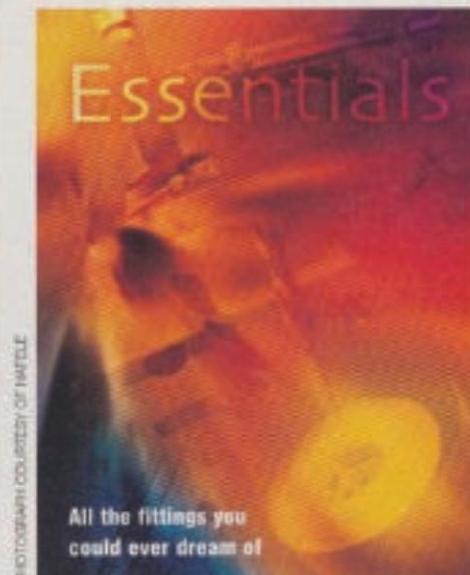


Skips are a good source of timber

PHOTOGRAPH COURTESY OF ANTHONY BAILY/ACAC

According to Fauna & Flora International – the world's oldest international conservation organisation – much of the problem lies in the lack of action by local authorities, with only 75 offering a timber recovery and recycling service. Although this number is beginning to increase as the pressure on landfill sites grows, there is still much room for improvement and the Global Trees Campaign encourages everyone who does not have this facility in their area to write to their local authority.

Essential reading from Hafele



PHOTOGRAPH COURTESY OF HAFELE

Hafele have released a new catalogue of fittings, consumables and ironmongery called Essentials, aimed at being a quick reference source for woodworkers, cabinetmakers and joiners.

Details of the latest edition can also be found on the company's website, www.hafele.co.uk, where materials can be researched, compared and priced against market competitors. The site is one of the nation's biggest and most up-to-date sources, where pricing and specification details are upgraded daily and purchasing can be undertaken in a secure environment using a range of credit and debit cards.

A free copy of the catalogue can be obtained by telephoning Hafele's sales director Ray Fisher on 01788 542020.

Highest worldwide standard



The Woodland Trust has successfully maintained its FSC certification for another five years.

Woodland in the UK owned and managed by the Woodland Trust conforms to the highest worldwide forestry standards – and that's official. The Forest Stewardship Council (FSC) which has developed responsible forestry standards in 42 countries has extended the Woodland Trust's FSC status for a further five years.

The Woodland Trust, the UK's leading woodland conservation charity, was the first major UK-wide organisation to achieve FSC certification, achieving FSC certification in England and Wales in 1998, adding its Scottish and Northern Ireland estates in 1999. The Trust's woodland management conforms to 10 principles drawn up by the FSC including biodiversity, community involvement and how harvesting operations are carried out.

Woodland Trust certification officer Tim Hodges says: "The Trust is a strong supporter of the FSC process and is pleased to see an increasing presence of the logo both in the high street and the general trade in wood and wood-derived products. The continuance of our certified status is great news but not unexpected; having maintained our certification for several years now, complying with the FSC/UKWAS2 standard is day-to-day business for us."

The Trust's audit was carried out by the Soil Association 'Woodmark' programme, which is accredited to certify and award the FSC trademark. The choice of Soil Association 'Woodmark' partly reflects the recently increased capacity of the Woodmark team.

Woodmark's Certification Manager (Forestry) Richard Johnstone says: "Soil Association Woodmark was delighted to be asked to carry out the FSC re-certification of the Woodland Trust. The Trust has taken a very constructive and thoughtful approach to the certification of its woods.

A number of the Trust's management systems have been tailored to certification, including its own internal audits. This is reflected in a high overall standard of forest management, which meets, and in several cases exceeds, FSC requirements."

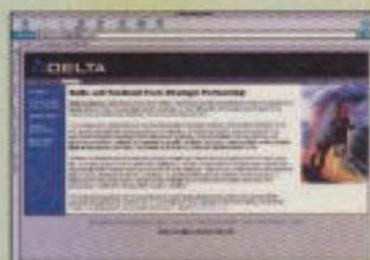
Tim Hodges says: "Certification is mainstream now. It represents best practice and is increasingly seen as bringing a range of benefits for woodland owners, organisations and their customers alike. The Trust is also pleased to see that progress is being made in making certification more accessible for small woodland owners, which has always been a concern of the organisation."

Delta and Toolbank get together

Delta Machinery has appointed leading wholesaler Toolbank as the master distributor for the UK market. Toolbank will distribute and market Delta products through their network of 11 local branches, providing same-day order processing to retailers nationwide.

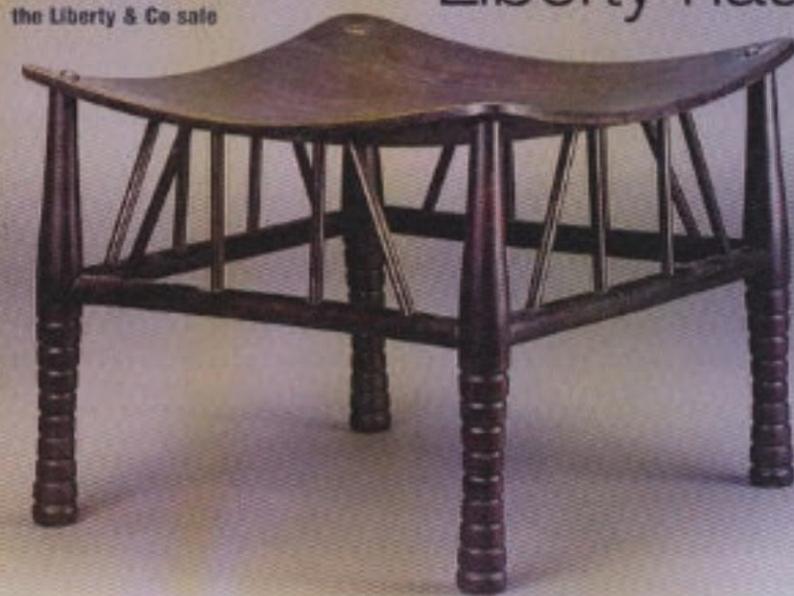
Toolbank will also handle trade enquiries and operate the Delta 'hotline' directing consumers to local dealerships.

To acquire the new Delta catalogue or for further details, call the helpline no:
Tel: 01322 321377
Fax: 01322 321378
Email: delta@toolbank.com
Website: www.deltamachinery.co.uk



Arts and Crafts stool inspired by an Egyptian design from the Liberty & Co sale

Liberty haul



Christies have announced they are to hold the first-ever auction devoted entirely to the world-famous London department store, Liberty & Co, on 24 September. Established in 1875, Liberty was synonymous with style and elegance worldwide, and became a major force in the development of the decorative arts during the 19th and 20th centuries.

The auction will comprise over 250 lots, showcasing all the major decorative arts designers of the period. It will include fine ware from the whole oeuvre of Liberty production – including metalwork, ceramics, glass, furniture, textiles and jewellery. Among the highlights are a large Tudric pewter and abalone clock by Archibald Knox, circa 1902–1905, a Liberty copper mirror, circa 1905 and a Moorcroft Claremont dish with toadstool.

Given the breadth and depth of the sale, it is expected to generate widespread interest from across the globe including Europe, Asia and America.

It wasn't the opportunity of making another set of coffee tables that appealed to **Jane Cleal** when she took this commission – it was the chance to brush up on her laminating skills

Contemporary veneer



PHOTOGRAPH BY JONATHAN

In choosing to write about this particular commission, I was drawn by a specific process rather than the resulting final piece – namely laminating!

At first sight a somewhat simple topic, but scratch the surface and you could fill a large textbook with differing opinions, approaches and subsequent varying experiences. Prepare, then, to add yet another.

To begin the story, a client approached us to design a side table and two small, glass-topped coffee tables. Contemporary in feel, they were to be located in a light and spacious secondary sitting room.

Brief

Straight away I got a feel for the design. To quote two overused phrases, the furniture had to be 'simple in form' and should incorporate 'clean lines'. Furthermore, I felt I had my chance to use rich, dark and figurative timbers on account of the space; light

and existing style in the room.

Within a short space of time I had sketched some ideas. Drawing a few curves on paper, as you know, may maintain visual simplicity whilst adding sufficient visual interest – but in one stroke of the pencil it also results in considerably increased 'making time'.

Undeterred, as usual, I submitted the designs anyway. The client approved, and then together we chose the timbers. After a number of combinations, we settled on one of my favourites, namely burr elm and Macassar ebony. In the right setting, both these timbers can look stunning.



Jane Cleal and Justin Williams trained together at Buckinghamshire College and have worked in partnership since 1990. Their furniture, which is mostly for private clients, is designed by Jane and made by Justin. They use European and North American hardwoods, paying particular attention to sustainable resources

Elegant simplicity allows the rich figuring of the timber to work without overwhelming – another of this editor's favourite pieces. Superb, Jane! Colin Eden-Eaden



This former was used for both the legs and the shelf/stretcher



Template for the coffee table former with completed former in the background

Plenty of breather fabric and an extra layer of MDF helps give a uniform pressure



Full size setting out – essential!



■ Preparation

And so began production. Confident in the design, had there been no curves there would have perhaps been no need for full-size drawings. These, however, were now essential.

Interestingly, and perhaps obvious to many, I also feel the thickness of the components is of critical importance to the design at this stage. Almost obsessively, I believe even the smallest measurement one way or the other can have an effect on the overall look of the piece.

This then leads us into the subject of laminating. The selection of the core material should be based on a number of things, including the final thickness. Let's consider then, what is available. Over the years we have used birch ply, constructional veneer, standard decorative veneer, flexi-ply and MDF.

■ Materials

I'm afraid for all its faults and bad press, we use MDF most of the time. You used to be able to obtain it in sheets of 2mm (4in) thick, although now this seems incredibly scarce, so we go for 2.5mm (6in) or 3mm (8in).

At this thickness, your one limitation is how tightly it will bend, but for this project it was fine. In fact, a slight bit of tension often results in a much more regular laminate. It also has the advantage as a man-made product of being far more predictable, and with it being available in 200 x 100mm (8 x 4in) sheets,

there is usually no need for jointing.

One thing though, which you may have already experienced, is that sometimes it seems to have been coated in some sort of film or substance, making gluing difficult. Upon application the glue seems to disperse into patches. To avoid this and to aid absorption of the glue, we always sand the surfaces. Oh yes, and as you know – its subsequent fixing capabilities are not brilliant.

When flexi-ply first came out I thought it was amazing, as it afforded the user so many possibilities. However, we tend now to use it only as a central core material. This is because we found the surface we were left with often felt uneven to the touch, which would then telegraph through the final decorative veneer. A barrier of MDF is always used now.

Constructional veneer is great if you wish to expose the laminated edge and create a more 'solid' look. It is, however, more expensive and inconsistent in its thickness and behaviour. It also may require jointing.

The same also applies to decorative veneer, but in its favour is the fact that you can create much tighter curves and produce an extremely strong laminate – an obvious advantage if you require small components.

I must say I'm a big fan of the look of untouched birch ply. The striped edge that is created really celebrates the laminating process for me, and the birch surface looks clean and 'strong'.

... Tools to your door



the axminster vertical panelsaw

Compact and powerful, the C4 is the ideal solution to the problem of handling large sheets of material where space is at a premium.

- Cuts all types of sheet material vertically, saving valuable workshop space.
- Optional mounting, either attached permanently to the wall or with rear support stand and wheels for transport around the workshop.
- Saw unit slides up and down the guide rails for vertical cutting. For horizontal cuts the saw is rotated, fixed in position and the timber moved on rollers through the blade. Accurate scales are provided for both vertical and horizontal cutting.
- Midway fence allows horizontal and vertical cutting of smaller pieces at a more convenient height; precision work stop is provided for repeat length cutting.
- Bottom rail can be extended by 500mm each side for handling longer lengths of material.
- 1870 watt motor unit drives a 200mm diameter blade to give 44.5mm depth of cut in a wide variety of sheet materials.
- Other accessories available include dust extraction kit, quick-set stop with up to eight length settings and spring loaded hold down bar for use with thin materials.



Saw Package (Includes Midway Fence, Fixed Stand, Wheel Set and Dust Extraction Coupling)
Order Code APTCC4

£2,048.79 inc VAT

UK Axminster Heavy Goods Delivery ONLY £30 charge

freephone 0800 371822



**TOOLS
2003**

the UK's premier tool & machinery exhibition

WESTPOINT EXHIBITION CENTRE EXETER DEVON

6, 7 & 8 NOVEMBER 2003 • TICKET HOTLINE 01297 34836

visit www.tools2003.com for full details including exhibitors, demonstrators, features, special flight details with Flybe, accommodation lists and much more

Axminster Power Tool Centre, Axminster, Devon, EX13 5HU, Freephone 0800 371822

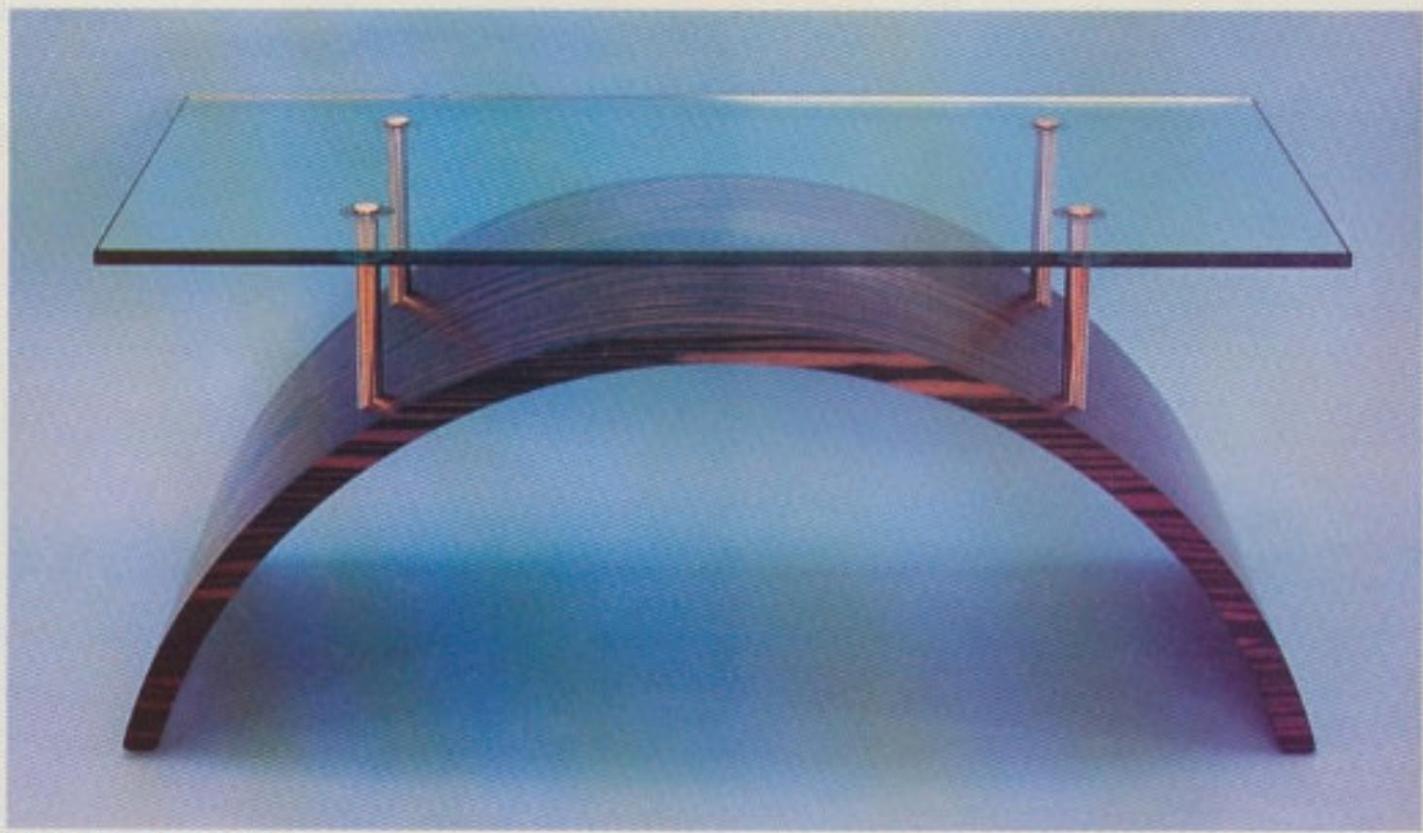


free catalogue

CALL

0800 371822

www.axminster.co.uk



The companion coffee table

For this project we went for laminates 26mm (1in) thick. This was made up of 2 x 4mm ($\frac{1}{8}$ x $\frac{1}{8}$ in) flexiplast, 2 x 3mm ($\frac{1}{8}$ x $\frac{1}{8}$ in) MDF, 4 x 2.5mm ($\frac{1}{8}$ x $\frac{1}{8}$ in) MDF and 2 x 0.6mm ($\frac{1}{16}$ x $\frac{1}{8}$ in) decorative veneer – and of course, a very scientifically worked out 0.4mm for glue lines.

■ Formers

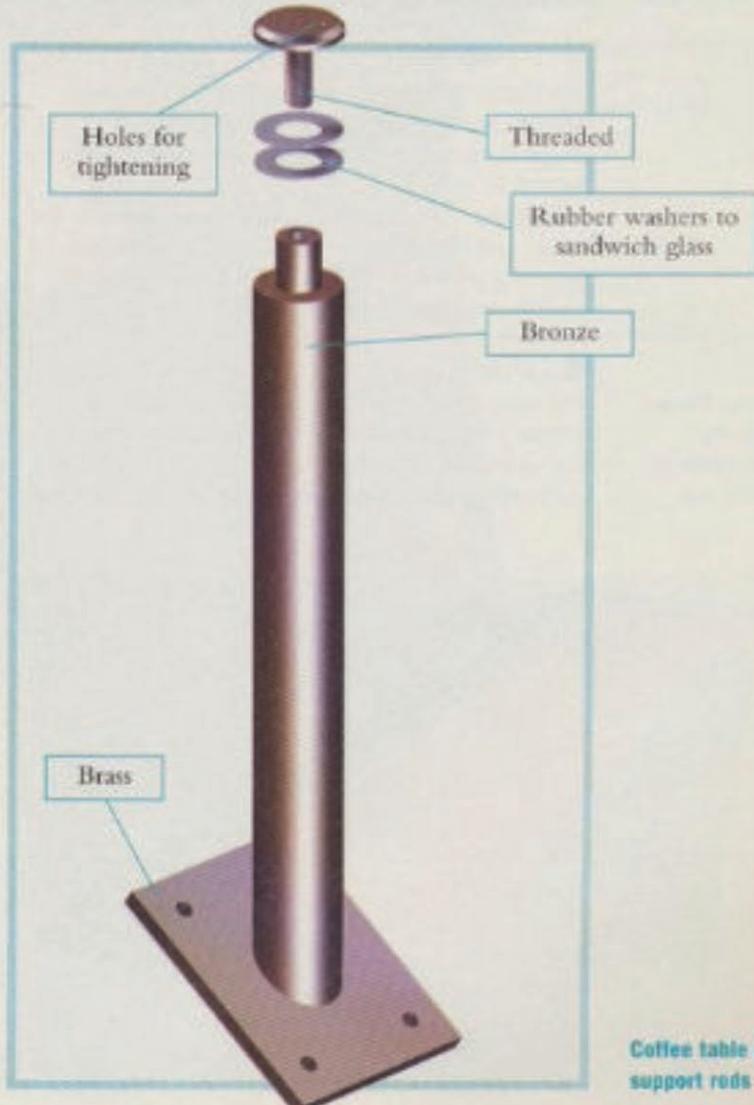
I'm always conscious that there must be an easier way to construct formers than the way we do it. In the past, we have opted for material-saving ideas such as brick construction or semi-hollow formers with a covering skin. Placed in a vacuum bag, however, they never seem to work as successfully as a good old solid former – even if it does take a small army of people to lift!

In terms of material, we tend to use whatever is to hand. In our case this is often 25mm (1in) MDF or chipboard. A template is used to produce a spindle jig, which includes back and end stops to ensure that all pieces are exactly the same.

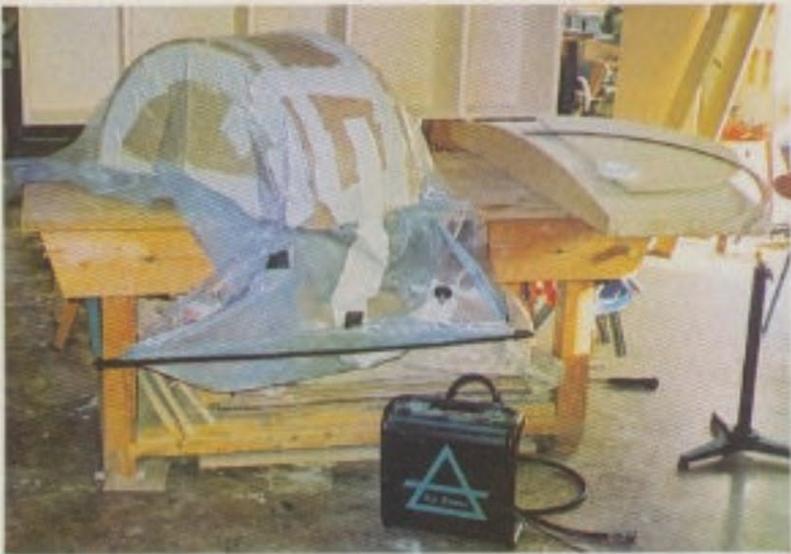
One thing to avoid at all costs is having to sand, scrape or plane the final former. Therefore, to fix the pieces together we do not use dowels, studding or metal rods as we find they can make perfect alignment difficult. Instead, we just glue and screw one piece onto the next, taking time with G-cramps and a ruler to check alignment. All sharp edges are then taken off to prevent damage to the vacuum bag.

■ Vacuum bag

One very simple addition to the process that has reaped numerous benefits is to cut two pieces of 3mm ($\frac{1}{8}$ in) MDF slightly bigger than the laminates.



Coffee table glass support rods



Clamped down



The result showing the different layers of the core

One placed against the former takes out any tiny hollows, and the other placed above the laminate seems to add an excellent, even pressure against the decorative veneer.

If waxed, they also stop the laminate gluing to the former and prevent any glue getting on to the bag. A generous amount of breather fabric also helps to achieve maximum pressure all over.

■ Glue

The top. Ebony frames the exotic figure of the burr elm

This really is a subjective area, but one thing is definite – you need to choose a glue which has a long open time. Professionals often talk of Borden UL39 resin with a suitable hardener. It does have the



Wing-biscuted on

advantage of setting in approximately one hour once in the bag. However, it's also quite expensive, so if you're not in a rush I would use good old Extramite.

■ Coffee tables

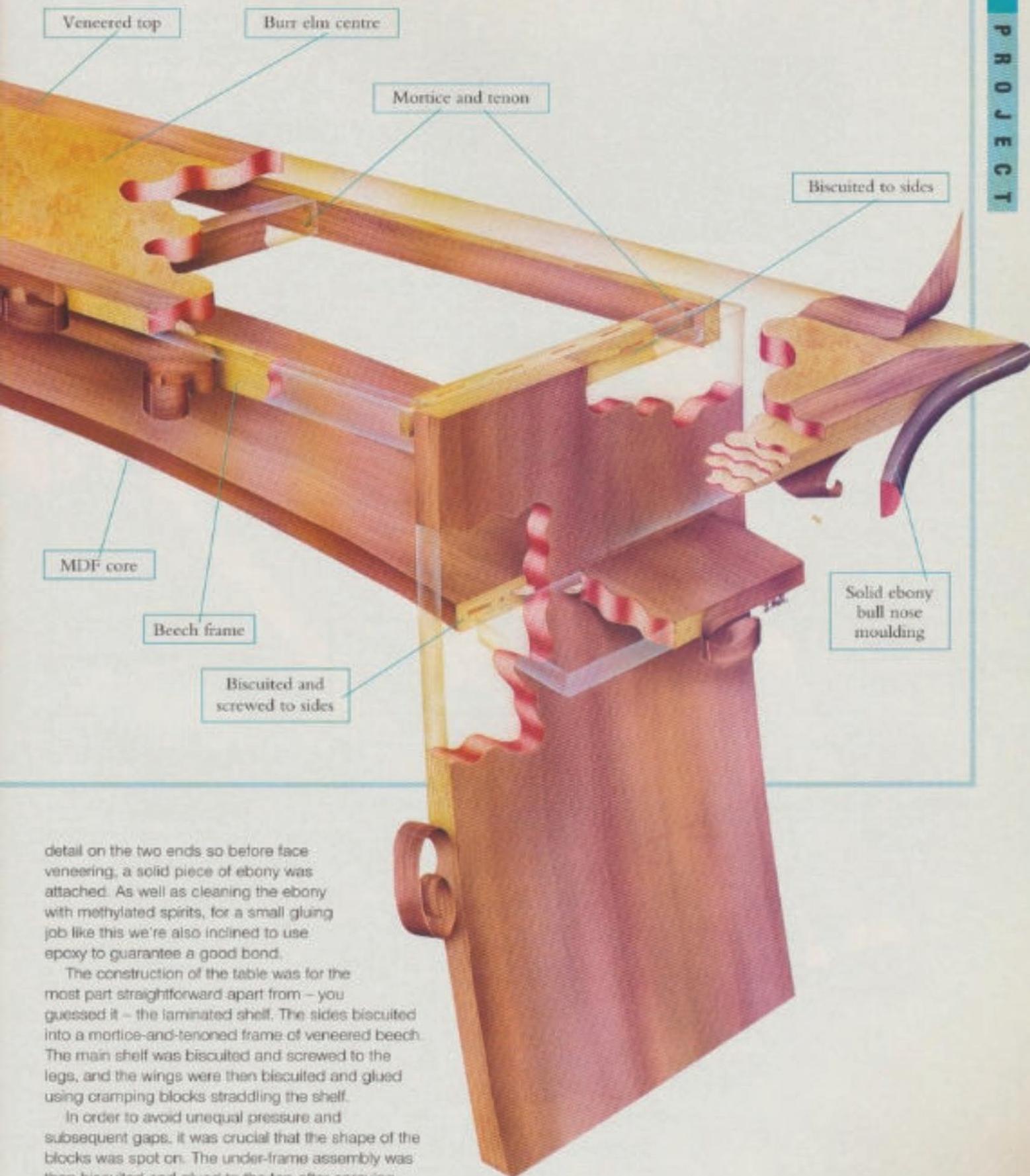
In the case of the coffee tables, once the laminates had been cut to size and the edges veneered, the only thing left to do was to just drill four holes for the bronze rods. These would support the glass. Attached to these rods were brass plates, which screwed to the underneath of the laminates to strengthen this fixing.

I say 'just' because what sounded simple proved somewhat more complicated in practice. The holes had to be clean, crisp and accurate. We therefore abandoned the idea of the drill, instead using a long router cutter and wooden jig to make sure the router plunged at the correct angle.

■ Side table

As with the coffee tables, the laminates were cut to size and edge veneered. The top had a bull nose





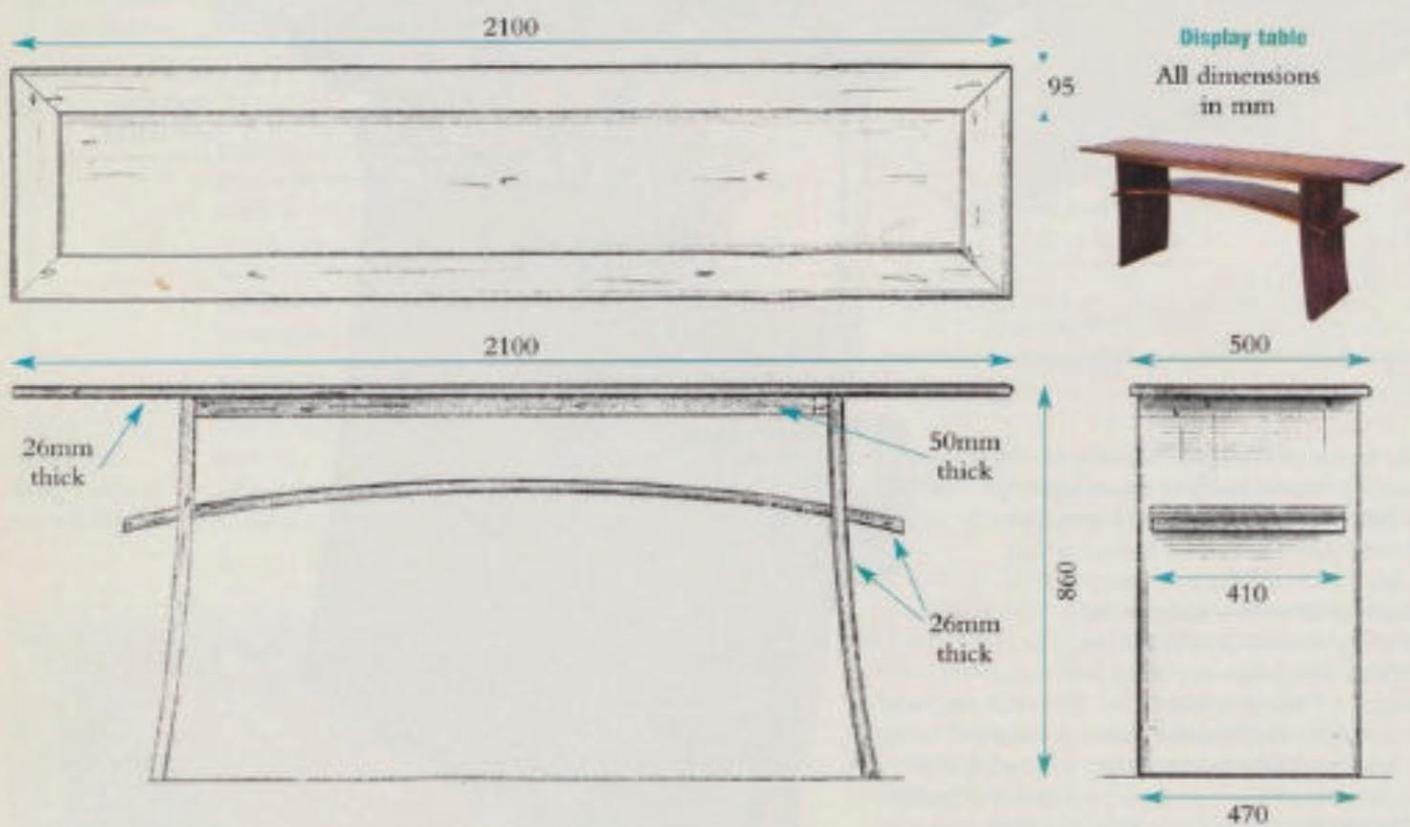
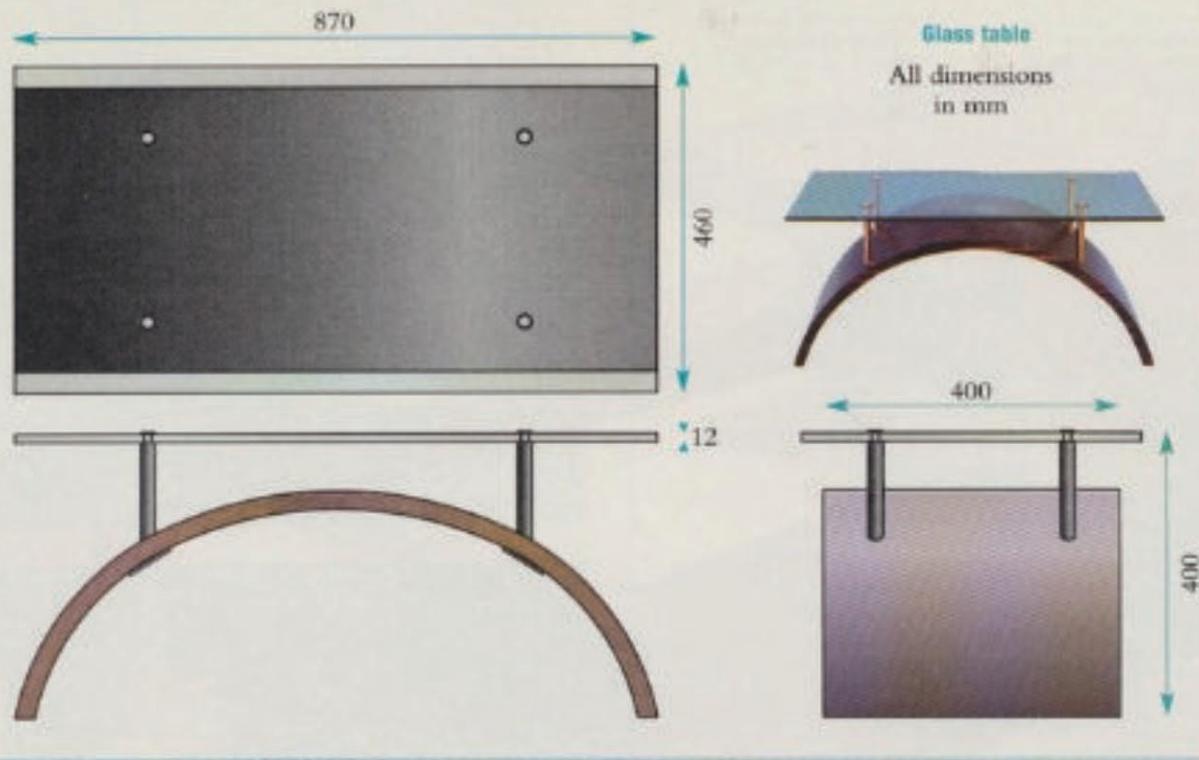
detail on the two ends so before face veneering, a solid piece of ebony was attached. As well as cleaning the ebony with methylated spirits, for a small gluing job like this we're also inclined to use epoxy to guarantee a good bond.

The construction of the table was for the most part straightforward apart from – you guessed it – the laminated shelf. The sides biscuit into a mortice-and-tenoned frame of veneered beech. The main shelf was biscuit and screwed to the legs, and the wings were then biscuit and glued using cramping blocks straddling the shelf.

In order to avoid unequal pressure and subsequent gaps, it was crucial that the shape of the blocks was spot on. The under-frame assembly was then biscuit and glued to the top after spraying.

One note of caution – although spraying is easier in pieces, make sure you leave it at least a week to harden before fixing. As well as clamping blocks, I would advise a sheet of sanded MDF be laid on the top for protection. Even after a week, we have found

that if the blocks directly apply pressure onto the surface, they somehow absorb the polish and leave dull patches.



■ Reflection

Although there is nothing ground-breaking in these projects, no huge mountains to climb or problems to solve, as always, the key to gaining pleasure and fulfilment came from good preparation.

Thankfully, the client and I were really pleased with the

finished pieces and also how smoothly the construction process had gone. Would I change anything? Well, to be honest you can always find something, as perfection in my book is unachievable, but let's just say I wish all our commissions went this well.

To have and to hold

No one in the world offers a finer collection of special chisels than Robert Sorby.



From classic furniture to cutting mortices, from fine bench work to rugged timber framing there's a chisel in the Robert Sorby collection designed for your every need.

With a choice of elegant rosewood or boxwood handles, bench chisels are made with delicate balance for the most comfortable grip. Made from a specially manufactured steel, they will give a life-time of unstinting service.....just ask your father or grandfather.

You need a paring chisel? Look no further. We have the longest and thinnest in the world, to produce the cleanest of cuts.

If you are looking to produce that accurate 90° angle then we have both fine and heavy duty corner chisels.....a bonus to those working with routers.

And we have rugged framing chisels - up to 15" long with a 2" blade - designed to withstand the harshest of treatment during those larger projects.

It is the ultimate chisel collection for the connoisseur.

These durable chisels are still produced in Sheffield, England in the time-honoured way, to give you the chisel you always promised yourself. And you will find you will not let anyone else get their hands on your Robert Sorby chisels.

UK DEALERS:

Bucks - Isaac Lord
01494-835200

Cheshire - Graham's Machinery
01244-382282

Cumbria - Kendal Tools
01539-733774

Devon - Yew Turn
01822-616000

Dorset - Tool Store
01202-486240

Gloucestershire - Bell Tools
01452-300805

Hertfordshire - General Tool Store
01989-562177

Herefordshire - Pen Tools
01432-273018

Herts - Tilgear
01707-873434

Kent - Webb Ironmongers
01580-762132

London - Buck & Ryan
0207-636 7475

Somerset - Yandle & Sons
01935-822207

Surrey - Buck & Ryan
01483-561125

Sussex - Aird & Co
01273-327191

Yorks - Turners Retreat
01302-744344

Scotland - Murray's Tool Store
0131-2291577

N. Ireland - W. McMaster
02890-321542

Eire - Joe McKenna
061-413888

Robert Sorby

Athol Road, Sheffield S8 0PA, England
Tel: +44 (0)114 225 0700

Fax: +44 (0)114 225 0710

Email: sales@robert-sorby.co.uk

www.robert-sorby.co.uk

makers' WEBS

Contact us

If you are a maker and would like your site featured, or know of any good furniture-making sites, contact **Colin Eden-Eadon** at 86 High Street, Lewes, East Sussex BN7 1XN or email on coline@the-gmcgroup.com



Beginning this month, a new series looks at makers' web pages. To kick off, here are two websites providing a directory of makers for that all-important part of the public – the client!

www.furniture-makers.co.uk

Visitors to the site can register online and record their comments

Home page

Steve Whyley
One White Quay
Furness, Cumbria, CA11 8DX
Tel: 01229 211200; fax: 01229 212860; e-mail: swhyley@btconnect.com

"In my workshop in Farnworth I design and make furniture for private and corporate clients. My role as a designer/maker is two fold. Firstly I produce furniture to meet the taste of my clients. Secondly, I reserve time to produce work for exhibition giving myself a greater freedom of expression and to make a contribution to contemporary design and the cultural wealth of the nation. My aim is to produce furniture that is strong and inspiring."

An example from the directory

A table by Chris Barney featured on the site

www.makersregister.co.uk

Any makers wishing to register themselves on these pages can either go online or contact Jonathan on 01908 587855, emailjon@makersregister.co.uk

Toby Winteringham
Tel: 01229 211200; fax: 01229 212860; e-mail: toby.winteringham@btconnect.com

Toby Winteringham's profile, appearing on the site

Sawie & Vaughan
Tel: 01229 211200; fax: 01229 212860; e-mail: sawievaughan@btconnect.com

Sawie & Vaughan's company profile

Contact us

If you are a maker and would like your site featured, or know of any good furniture-making sites, contact **Colin Eden-Eadon** at 86 High Street, Lewes, East Sussex BN7 1XN or email on coline@the-gmcgroup.com

furniture & cabinet MAKING Hammer Challenge

COMPETITION: Win a HAMMER K3

Here is your chance to win a fantastic HAMMER K3 Sliding Table Saw and show off your woodworking skills at the same time! To enter the competition is very easy, all you need to do is send us two photos of your work piece and a passport size photo of yourself. The only restrictions on your work piece are that it must be made of wood, no larger than 30cm square and of course be your own creation. Your entry could

be an ornament, a small chest, a game or puzzle, picture frame etc completely up to you. Six finalists will be selected from the entries. The finalists will have a photo of their work piece and themselves published in the January issue of Furniture and Cabinet Making. The finalists will be asked to send in their entry for a final evaluation

whereupon a winner will be selected. The eventual winner will be announced in the February issue of Furniture and Cabinet making. The winner will receive the HAMMER K3 Sliding Table Saw and also have a small article published about how the winning work piece was constructed etc.

Win a HAMMER K3 Featuring

- Single or three phase motor
- Tilting saw blade 90° - 45°
- Scoring unit
- Cutting width 800 mm
- Cutting height 102 mm
- Solid cast iron tables
- New optional heavy duty rip fence
- Precision sliding table 1240 mm



ENTRY FORM

Furniture and Cabinet Making Hammer Challenge:

Name: _____

Address: _____

Telephone: _____

Send to: GMC Publications
86 High Street Lewes
Sussex BN7 1 XN

Entries must be received no later than the 31st October

RULES

- Entrants must agree to be available for the machine presentation ceremony and allow a short editorial to be published about her/himself and winning workpiece.
- The decision of the judges is final and no correspondence will be entered into regarding the judging.
- Finalists agree to send in their workpiece to Furniture and Cabinet Making for final judging. Finalists workpieces will be returned.

TOTAL PRIZE VALUE OVER £2000.00

The HAMMER K3 sliding table saw designed and manufactured in Austria by the world renowned FELDER Group is the perfect compact sliding table saw for any size workshop. With solid cast iron tables, precision sliding table and the new optional

heavy duty rip fence, the HAMMER K3 not only offers repeatable accuracy but also sturdiness and reliability. Further features include an in-built scoring unit, cutting height to 102 mm and crosscut fence with cross-cutting work piece table support.

Over the years I have used woodworking machines made by a variety of manufacturers. About 20 years ago I visited a woodwork show in London and came across Felder machines for the first time. The main item on display was a combination machine and although it would not have suited my needs at the time, I was generally impressed with the build-quality and design thought that had gone into its manufacture.

Then, when the time came to replace a rather inadequate tablesaw from the machine shop at Parnham College, we opted for a Felder sliding-table dimension saw. This fine machine maintained my interest in Felder equipment and when the time came to consider my own requirements, Felder was a natural choice.



Robert's Felder has been a mainstay in his workshop since he invested in it

Universally useful

Professional furniture-maker **Robert Ingham** and enthusiastic amateur **Roger Hurran**, explain why, from two different perspectives, the manufacturer Felder was a natural choice when it came to investing in a combination machine

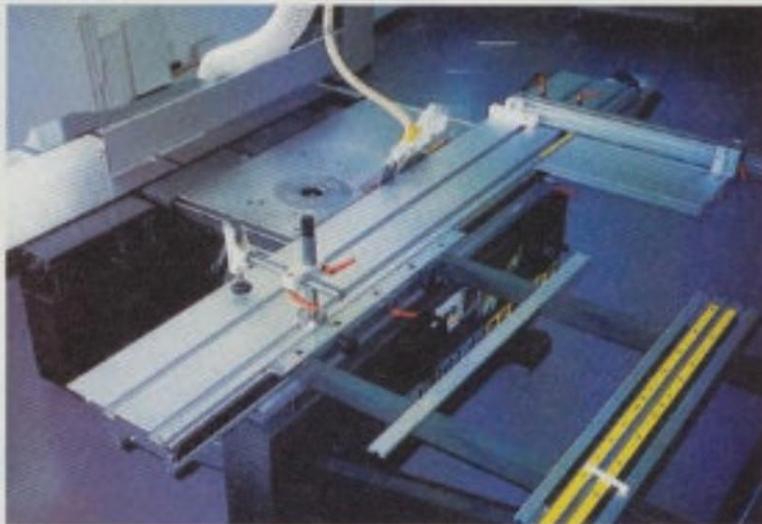
Robert Ingham has an international status as a teacher, designer and craftsman and was Principal of Parnham school for many years before setting up his own workshop in Wales



Specification

I pored over the latest catalogues and brochures, drooling at the prospect of owning the latest Felder combination machine. Many people I know argue that combinations are frustrating, particularly when changing functions. This can be overcome, however, with a little planning when carrying out multi-functional processes.

If you are considering a combination machine, I would strongly recommend a visit to Felder UK's showroom in Milton Keynes. The staff are well versed in the knowledge of their product, and after listening to their helpful advice, I decided to go for a machine with more generous capacities than I had originally intended. I finished up with an 8ft-long sliding table and a 16in planer-thicknesser.



The outrigger table can be easily removed

The sliding table circular saw

To those who favour the good old heavy cast-iron machines of yesteryear, the fabricated steel box chassis might appear a little flimsy. This is certainly not the case with the professional standard of machines made today. Design engineers exploit the technology of stress analysis to produce strong but lightweight structures that

are every bit as effective as their heavyweight counterparts, without the problems of distortion that often happens when iron castings settle and mature. The chassis of the Felder is more than strong enough to withstand the loadings to which it would be subjected.

The extruded aluminium sliding table can be extended to its maximum limits without any deflection whatsoever. The machine is supplied with an outrigger and telescopic arm, capable of supporting and handling an 8 x 4ft sheet of board material. This makes the production of large-scale carcass furniture a breeze, even for a one-man workshop. The table slides effortlessly and my first long cut was perfectly straight - straighter even than the first straightedge I bought some years ago!

I do not use the outrigger table frequently, and it can be easily removed. The telescopic arm folded unobtrusively against the side, held in place with a magnet. I use the short crosscut fence with an extension table that can be moved and clamped onto the edges of the saw table, a feature exploited by Felder from their earliest machines.

The sliding table can also be used to rip long

Changing blades is easy with Felder's neat cutter changing system



waney-edge boards and establish a straightedge with the addition of an end-mounted edging shoe. But for ripping and making parallel cuts the fence that is supplied doubles its function both for sawing and planing. The precision extruded-aluminium fence can be used in both vertical and horizontal modes which makes it versatile when sawing narrow parallel components. It can also be tilted for angled section cuts both on the saw or surface planer.

The many and varied accessories available for the saw are targeted mainly at specialist users. I chose the eccentric clamp, essential for holding down large components in conjunction with the sliding table. It fits into either of the two T-slot grooves in the sliding table.

Dust extraction is always a problem with the turbine effect of rotating sawblades. While the extraction for the saw is well thought out, I strongly recommend the additional overhead vent available with the saw guard.

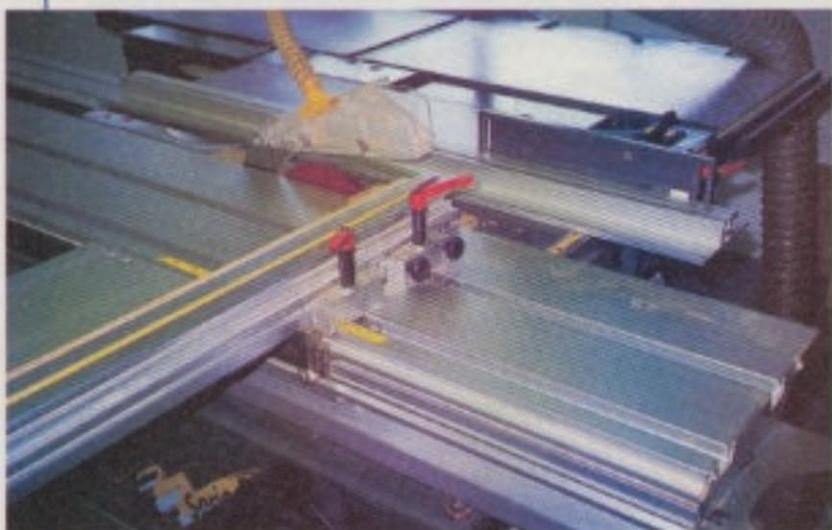
The planer-thicknesser

I chose the four-blade cutter block, and the Felder system's self-setting planer knives put this machine in a class of its own. The factory-set blade-holders enable the double-edged blades to be installed in minutes, making changing a reliable and problem-free operation. These blades aren't cheap and to reduce damage to the cutting edges I spend a little extra time examining the surfaces of boards while cleaning them with a wire brush.

In addition, I zone the blades for aspects of use. The first third of the width is used for cuts on rough-sawn surfaces, the middle third for general-purpose work on already planed surfaces and the remaining third for that extra special surface where the risk of breakout is a potential problem. Although the blades cannot be re-sharpened, it is possible to hone them in-situ with a very fine diamond slip.

The thicknessing facility is equally brilliant. I have always regarded dead rollers in the lower table as essential, at least until Norman Woods, my contact at Felder, pointed out that they were only an advantage when using resinous softwoods frequently. As a furniture-maker I mainly use hardwoods, rendering this feature superfluous to my requirements.

What makes thicknessing so much more controllable is the digital hand wheel. When a



setting has to be changed it is possible to return to a previous dimension with absolute certainty.

I also included a variable-speed feed mechanism in my specification which I have to admit is always set on the slowest speed, giving me ridge-free surfaces.

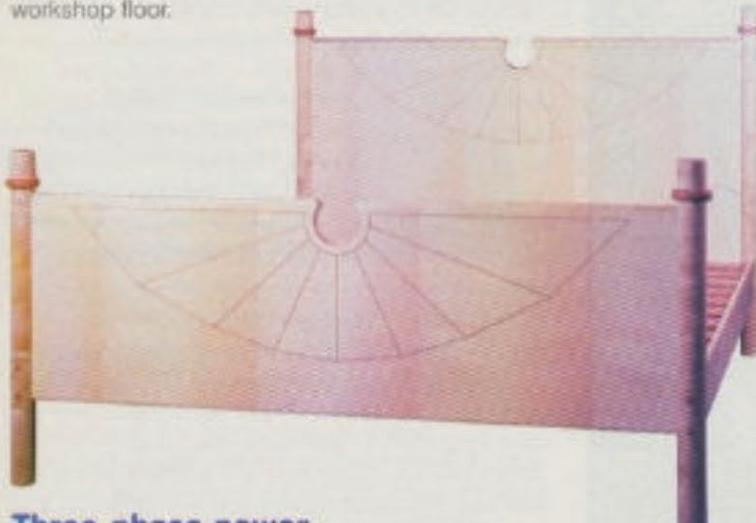
The extraction hood, which handles both surfacing and thicknessing functions, is extremely efficient.

The dimensions of the lower thicknessing table are governed by the practical limits of the machine. This means that long pieces of wood need to be supported as they pass beyond the end of the table and once again there is a useful extension table that clamps in place to accommodate the extra weight. This extension can also be attached to the tablesaw to fulfil the same purpose.

Spindle moulder

The spindle moulder is probably the woodworking machine that has been responsible for the largest number of accidents. Fortunately the current generation of these machines has been subjected to the most rigorous safety regulations.

To test it out I made legs for a bed which had quite a high headboard. I used ripple sycamore and the quality of surface from the matched cutters had to be seen to be believed. And once again, the effective extraction ensures all the shavings go into the collecting bags, not the workshop floor.



Three-phase power

There is no doubt in my mind that machines with large motors work more efficiently with three-phase power. After receiving a £12,000 quote from the electricity board – to get three-phase power to my workshop they would have had to erect 12 poles – I went for the cheaper option of installing a phase converter. Although this is essentially another switch in the sequence of starting the machine, it is by far the most appropriate and economic alternative.

The legs of this bed were the first things I made using the spindle moulder on the machine

Dust extraction

During my visit to the Felder showroom I chose a wall-mounted system with a drum filter for my extraction. The first time I used it, it sucked up the small component I was working on and chopped it to pieces in the fan! Encouraging signs!

Being a corrugated construction, it does have to be removed periodically and cleaned from inside with a vacuum cleaner to restore its efficiency. I decided to bring the ducting down from the ceiling to a point above the machine. The blast gate is positioned high enough to be reached without getting in the way of the three main functions. From this point a flexible hose with a quick-release connector fixes to the duct being used.

This set-up obviates the problem of pipework on the floor and the very obvious hazards associated with it.

Safety

Safety is another area that has been very well addressed in every aspect of this machine. If anything, it is too good and there are times when some of the guards get in the way. Removing them, however, is asking for trouble.

Build quality

This article would not be complete without reference to the very high standard of manufacture of all Felder products. I do not think that my observations should be seen as a product test but rather as an evaluation of my response to the potential of the machine. I use it with confidence in the knowledge that it results in the quality of work I aspire to.

In addition to the clear resolution of function, the attention to detail makes it a pleasure to own. Just look at the chamfers that surround the edges of the planer tables and you will see what I am referring to! Now, all I have to do is convince my wife and business partner that I need to upgrade to the latest model!



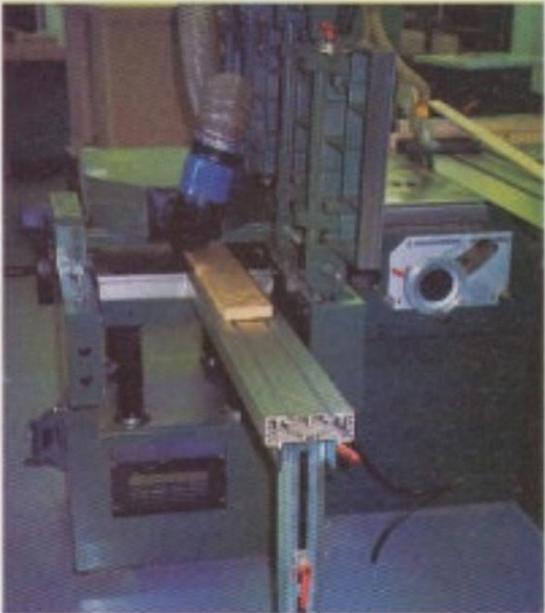
The thicknesser at work – so easy to control with the digital hand wheel

AMATEUR PERSPECTIVE

Woodworking has always been an interest but the fascination with shaping wood began some 20 years ago with the purchase of an Eliu MOF 188 router. Its size and weight called for a table to make it manageable, which effectively turned it into a small spindle moulder.

With increasing age came a growing realisation that hand-planing and thickening are jobs for fit youngsters, so on retirement I purchased a Kity Bestcombi – a truly splendid machine. Large sawn wavy-edged oak boards were available from a local sawmill but converting these required a machine with greater power. Scanning the back issues of woodworking magazines offered some guidance but most came in a conversation with the knowledgeable editor of F&C, Colin Eden-Eadon.

The search started in earnest and details were gathered on various brands. Many were viewed and each machine seemed to have its own strengths but from the outset the Felder CF 731 took my eye. The only drawback was its price.



Value for money?

After much cogitation, I took the plunge, my decision based less on science and more on a number of impressions. The first was the build and design qualities of the CF 731. The inward-opening planer tables, their heavy cast-iron construction and the use of counter-balancing heavy-duty coil springs to help raise and lower the tables, are all clear demonstrations of good build-quality, attention to detail and thoughtful design.

The CF 731 is visibly a powerful machine. The built-in inverter means its three-phase electric motors will run on single-phase supplies. The spindle moulder is a gem. As well as the usual

fine adjustments for the faceplates and spindle fence, the spindle can be tilted, vastly increasing its range of jobs without additional and expensive tooling. Another benefit is that the spindle rotates in both directions, which again substantially increases its range of work. The interchangeable spindle shafts mean a conventional shaft can be changed over with a high-speed router shaft.

Another factor that influenced my decision is that Felder sells direct to end-users. This provided me with the opportunity to rub shoulders with a dedicated workforce who knew what they were talking about. This is always reassuring.

The Felder catalogue is also impressive. I particularly liked the many accessories for earlier models and the range of compatible tooling. Finally comes the 'build flexibility', which for all practical purposes means the machine can be tailored to an individual's budget and needs.

Alive on arrival

When the machine arrived I became even more impressed. The rise and fall of the saw and spindle are adjusted by hand wheels to which optional dials can be fitted, giving measurements with absolute accuracy. The hand wheels are designed to be swapped over easily from the saw to spindle moulder shafts, requiring only one read-out dial to be purchased. This swapping is made easy because in essence two notches in the hand wheel socket fit loosely over a roll-pin in the rise-and-fall shaft. However, the router spindle caused sufficient vibration for its hand wheel to slide back on the shaft, so the notches disengaged from the roll pin. I asked Felder for a suitable nut and bolt to fix the hand wheel positively to the shaft, but their refreshing approach was to tackle the root cause, not the symptom. Working from the basis that there should be no significant vibration, they made tests to isolate the likely cause.

The result was that Felder replaced a slightly out-of-balance router shaft. With the source of the vibration removed, the hand-wheel now remains firmly in place. An anecdote yes, but an indication of the confidence the Felder team has in its product and a demonstration of the excellence of its after-sales customer care.

Of course I would have preferred it if the Felder was less expensive but taking everything into account, the machine, its performance, the depth and quality of the after-sales service, I have to admit to being one very satisfied customer. ■

The extension table connected to the thicknesser

CONTACT

Felder UK, Unit 80-82, Tanners Drive, Blakelands Estate, Milton Keynes MK14 5BP

Tel: 01908 327800 Fax: 01908 211161 Website: www.ukfelder.co.uk

The first viewing opportunity for a host of brand new machines and products

FREE ENTRY
FREE CAR PARKING
FREE COACH PARKING
EVERYONE WELCOME

KEMPTON PARK SEPTEMBER 2003

3rd Annual
Exhibition!

UNBELIEVABLE SHOW PRICES
WOODWORKING MASTERCLASSES
STANDS FOR ALL MAJOR BRANDS

JOIN US TO CELEBRATE
OUR **25TH YEAR**

25 Very special never to be repeated deals
From 25 top brand suppliers

YOU CAN'T AFFORD
TO MISS IT!!!

FEATURED MANUFACTURERS AND SUPPLIERS

BAHCO (SANDVIK)
BESSEY CLAMPS
BLACK & DECKER
BOSTITCH NAILERS
BRIMARC
DEWALT
DMT TOOLS
DMT SHARPENING
ELEKTRA BECKUM
ESTWING
FAITHFULL TOOLS
FAITHFULL POWER
FREUD
GMC PUBLICATIONS
GOOD WOODWORKING
KITTY
KARLTON

IRWIN INDUSTRIAL TOOLS
(FORMERLY RECORD TOOLS)
MAFELL
MAKITA
METABO
PASLODE
RAFESCO
RECORD POWER
RICHMOND TOOLS
SCHEPPACH
STABILA
STANLEY TOOLS
STARTRITE
THE WOODWORKER
TOOLBANK
TORMEK
TREND

INTERNATIONAL WOODWORKING EXHIBITION THE SHOW YOU'VE BEEN WAITING FOR

Some of the largest and most comprehensive displays in the UK, competitions, food & refreshments available on site. An outstanding weekend. Don't Miss out!!!

Woodworking
Machinery
Hand Tools
Woodworking
Demonstrations
Expert Lectures
Free Record Power
Prize Draw

FREE SHOW GUIDE
Register now by phone or visit
www.dm-tools.co.uk
for more details



Kempton Park Race Course
Exhibition Centre
Staines Road East,
Sunbury-on-Thames, Middlesex

Ideally located for motorway link, just 1 mile from the M3 and 8 miles from the M25, 35mins from central London, 25 mins from Heathrow and 40mins from Gatwick and frequent trains to Sunbury station.

1	2	3	4	5	6
7	8	9	10	11	
12	13	14	15		
16	17	18	19		
20	21	22	23		
24	25	26	27		
				28	29
				30	

THE SHOW YOU ARE WAITING FOR

26-28TH SEPTEMBER

2003

**THE SHOW
YOU ARE
WAITING FOR**

MILANO!



A large number of designs are intended for batch production using a CNC machine



As the 25th International Furniture Fair in Milan once again reports excellent results, professional designer-maker **Tom Harrison** and Rycotewood student **Nick James** give their verdicts on the event

EXPERIENCED EYE

The 25th International Furniture Fair in Milan opened its doors on 9 April to the first trade visitors. Officially, the fair is held in 23 of the halls of the Milan Fairgrounds alongside yet more halls full of lighting, bathroom and furnishing accessories. Unofficially, the rest of the city joins in.

The large furniture houses that already have stores in the city centre, such as B & B Italia, Cassina and Cappellini, use the opportunity to unveil their latest collections. Elsewhere, furniture designers from all continents – both household names and students – display their skills in warehouses across the city. When the main 'Salone' closes its doors at 7.30pm, the parties begin at the other venues.

The whole event presents a fantastic opportunity for British designers to attract the attention of the large Italian furniture manufacturers. The best exposure is to be gained at the 'Salone Satellite', in Pavilion 9 of the Fairgrounds. Here, 400 young designers are given a spacious, well-lit stage on which to display their abilities and creativity. Among the English exhibits was a laser-cut oak veneered coffee table by Simon Jones, runner up in last year's Oxo Peugeot Design Award, and a variety of items by Bucks College students under the name 'Big William' – previously known as 'Mo-Billy', a play on the Italian word for furniture. The antipodes were also well represented by designers like Matthew Harding, Johan Larsson and David Trubridge.

Given their intent, it is hardly surprising to find that most of the furniture on display here is designed on computers for mass production by CNC or laser-cutting machines. Multi-functional furniture and sensual forms reminiscent of designs by Ray and Charles Eames were also much in evidence.

Elsewhere in the city, established British designers like Tom Dixon, Ron Arad and Jasper Morrison all had work on show, alongside aspirant designers from East London's 'Hidden Art' collective and last year's 'Designer's Block' in London.

As has been true for the last few years, polyethylene and polypropylene continue to be the materials of choice for the avant-garde. It is debatable, though, whether Cappellini's revamp of Tom Dixon's 'S' chair, or Arad's 'Rocker', can be considered avant-garde any more. In many ways, more cutting edge were last year's entrants to the 'Caiazza Memorial Challenge' for original chair design, on display in the Zona Tortona. The winning entry from an international field was by Redruth College student, Simon Hewlett, for his 'Unity' floor chair.

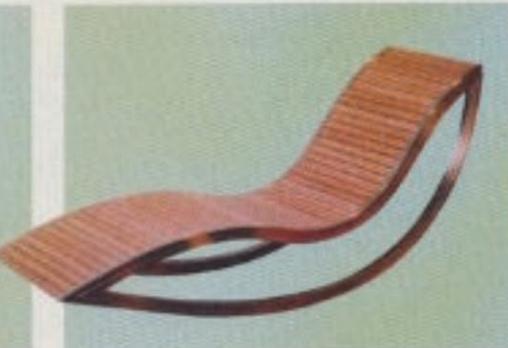
In the main Salone, endless displays of sleek, deep, minimalist sofas were occasionally broken up by sculptural pieces of cabinetmaking in Italian olive wood by large furniture houses such as Cecotti and Pykaleone.

Tom Harrison





With his modern take on the classic rocker, Australian Matthew Harding shows it's not just the Italians that have the edge when it comes to design



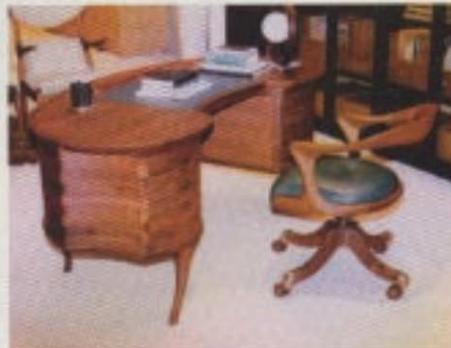
New Zealander David Trubridge uses a familiar local feature as the inspiration for this stylish piece



A classic piece by British designer, Ron Arad



Simon Howlett's winning entry in the Calazza Memorial Challenge, Unity



Made by Italian craftsmen, this really is office furniture to impress



The Italians show their sculptural and experimental side with these pieces in olive wood

STUDENT VIEW

Festival time in Milan brought the 'Salone Internazionale del Mobile' and the concomitant 'International Furnishing Accessories' show, 'Euroluce' – the biennial lighting show – and the new 'Bathroom and Home Textiles' exhibitions to the city.

Thousands upon thousands of products and designs made their industry debut during the frenzied six-day event, acclaimed by many as being the crowning glory of the world furniture market.

The furniture fair was broken up into three sections – design, modern and classic. All the important names were there, with very impressive stands lining mile after mile of hallway. However, this did

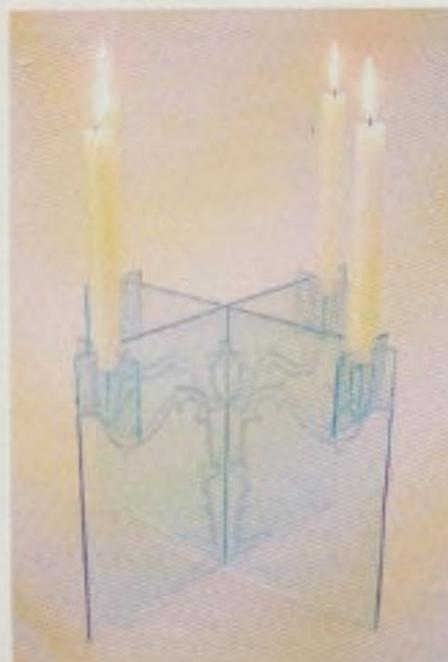
prove very demanding, and regular breaks sampling some of the fantastic Italian coffee were very much a necessity!

The 'Salone Satellite' on the main site was a showcase for creative up-and-coming new designers, and a landmark event for companies on the lookout for fresh new talent. There was also a large contingent of students from some of the world's leading design schools, even some from the UK.

'Designer's Block' showcased some of the best international designers. As the reputation of this event grows, it is fast becoming a key fixture in the design calendar. Cappellini and Magis also held another spectacular fringe event, showcasing work by Ron Arad, Tom Dixon and Ross Lovegrove, to name but a few.

The show this year appeared to have a somewhat jaded mood, possibly due to the uncertain economic climate, sensitive international situation and the SARS outbreak. However, the show goes on, and all the exhibitors were there to make the best of it.

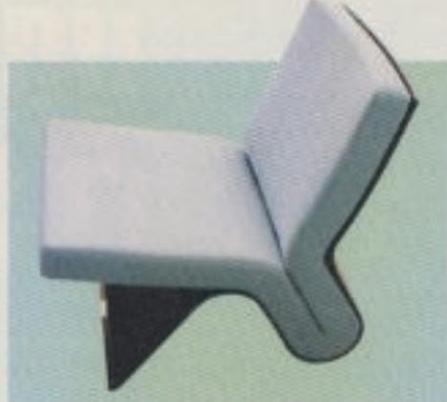
Nick James



Ghost candelabra, by Jon Russell. This evocative yet practical design makes the most of simple construction methods and CNC routing technology. Exploiting acrylic's inherent properties and playing off the traditional against the modern, this product is rich in charm and easy to manufacture.



Mugged table, by Matthew Warburton. This quirky coffee table makes a play in its function, with the surface ornamentation mimicking the rings left by cups. Drawing on the potential of CNC routing, the designer has used two router bits to skim through the beech veneer, creating a layered asymmetrical effect of rings. The table's tapered legs are designed to create a rigid structure to withstand the rigours of everyday use



Mille feuille. The seat and back of this chair curves and unfolds in one continuous line, combining its structure and upholstery into a single body



Table with crossed legs, by Simon Jones. The components of this table have all been cut from the same piece of 18mm (2½in) veneered MDF by a CNC laser, then lacquered and presented in the sheet from which they were cut, ready for assembly. The skeleton frame and black charred edges from the laser-cutting are both integral parts of the design

Below: Oblio is a sofa without really being one. It opens outwards, abolishing the borderline that traditionally isolates a place for sitting. You don't sit on it, you just move into it and look on the world from a new perspective



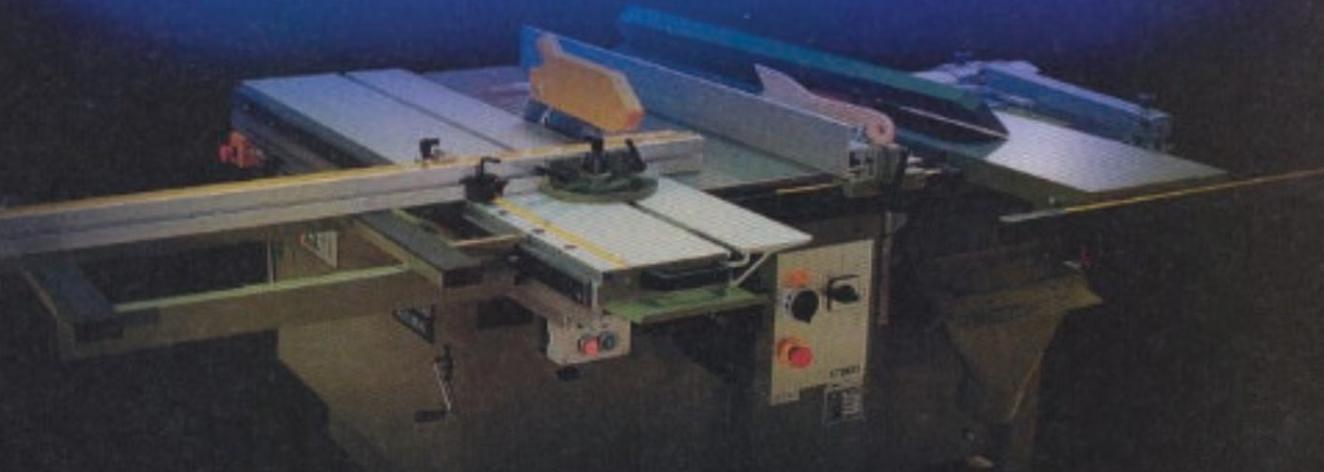
Links

- www.mo-billy.com
- www.tablewithcrossedlegs.co.uk
- uto.uto.free.fr
- www.designersblock.org.uk

It's Midnight and you can't Sleep!

No, you're not suffering from insomnia. You've just purchased a Knapp Signature Series Combination Machine from Pro Machine Tools. While everyone else sleeps, you can't wait to sneak into the garage and work on your legendary Knapp. The best (and the most expensive) combination machine in the world was custom made in Austria just for you.

The machine's construction is more like a finely crafted metal working machine. Distinctive features such as a 6mm steel body, cast iron dovetail raising and lowering mechanisms throughout, put the Knapp Signature Series in a class of its own. With a scraped finish on the cured cast iron work surfaces, a 10 year sliding table warranty, variable speed planer and self cleaning acme threads - it's no wonder you can't sleep!



Rest assured, this insomnia is curable – take one Knapp at night and one during the day!

Call 01780 740956 today for further information about this truly incredible woodworking machine.

The Knapp line includes several different models:

AD310 12" x 9" Planer/Thicknesser	£2,499.00	TK310 Universal	£6,700.00
AD410 16" x 9" Planer/Thicknesser	£3,800.00	TK410 Universal	£7,520.00
KFS-T Circular Saw/Spindle Moulder	£4,348.00	LBM Slot Morticer	£1,338.00
KS Circular Saw	£3,600.00		

(Prices ex-VAT) Model shown above is TK410 with morticer accessory

Expect The Best.

knapp

PRO Machine Tools Ltd, 17 Station Road Business Park
Barnack, Stamford, Lincolnshire PE9 3DW
Tel (01780) 740956 Fax (01780) 740957

Exclusive importers of Knapp Woodworking Machines

THE EDITOR'S OPINION

Ray Iles has run his second-hand tool business since 1983, and has been beavering away making his own range of blades for some time. Having already made some adjusters as a retrofit, he was asked by a customer to make a lever cap. Without meaning to, Ray soon found he had most of the parts for a plane, and so decided to take the next logical step. It wasn't long before the first Norris A5 smoother rolled off the line.

Perfect pitch

Of course, Norris was not on his own in producing planes of the type – other famous names like Spiers and Matheison have all produced many fine planes. This type is a halfway house between a York pitch used for fine finishing, where the blade is set at 50° to the sole, and the 45° pitch of a Bailey. It is set at 47½°, so I was keen to see how it would perform on tricky timbers.

With its coffin shape, the A5 is the most traditional model. There are no double dovetails that are normally associated with these planes, with Ray instead choosing to use welded construction. Some purists might not like this, but personally I don't see it as a problem. Indeed, Norris themselves also used cast construction on some of their models.

True to form, Ray supplied the plane with his own blade – A2 steel at a lovely 4mm thick! The blade was flat and ready to go with just a tickle.

Feel-good factor

Using a plane of this type is a different experience to using a Bailey, as the weight and balance are different. Setting up the fine mouth is a matter of patience and persistence, but every bit worth the effort. I tried the plane on walnut, which was a delight, on oak, and on some horrible padauk that was very lively – a change in grain direction every half inch! The padauk was the only one that the A5 found a challenge, but even so, it did a pretty good job of it with only a little tear out.

I liked the feel of the plane and its balance. The overstuffed rosewood is nicely finished with oil that will give it a good patina the more you use it. The famous Norris adjuster that had made the difference in terms of survival for the company is unique in the way it works. The thread for cutting adjustment is set at 36tpi, which is nice to use and very fine. The lateral movement is stiff, but you can get used to it.



'True to form,
Ray supplied the
plane with his
own blade – A2
steel at a lovely
4mm thick!'

Left: A working craftsman's plane to be used in a workshop
Above: The Editor looking serious, but enjoying using the A5

Smooth operator

Colin Eden-Eadon and amateur woodworker **Stephen Haynes** see whether the classically styled Iles A5 smoothing plane reaches the same standards as its predecessors

Verdict

This is a classic plane that is very much a workshop tool rather than a mantelpiece item. Not only that, it's affordable! Many second-hand, clean examples of this plane are more expensive, and you don't have to do any work on the Iles A5 – a commendable achievement in my book.

Ray is now in the process of manufacturing the A6 type – a parallel-sided version of the same plane. I'm looking forward to testing this too, but while some may find the straight sides more practical for shooting joints, I still rather like the shape of the A5.

Colin Eden-Eadon

THE AMATEUR'S OPINION

Thomas Norris & Son produced a wide range of quality smoothing planes in both dovetailed steel and cast gunmetal. The firm favourite with modern users, though, is the A5 dovetailed model with its convex sides, closed handle and patent adjusting mechanism, introduced in 1913. Apart from its welded construction and the use of Allen screws to attach the lever cap, this handsome new plane from Ray Iles is a faithful copy.

Acquired taste

Norris planes are not at all like the familiar Bailey planes, and they will not suit everyone. They have no movable frog, and the smoothers have the short, stocky proportions of a traditional wooden smoothing plane. They weigh about 10% more than a Stanley No.4, but the main difference is the extra rigidity that comes from their compact, solid construction and minimal number of moving parts. You won't get any vibration or chatter from a plane like this.

The Iles A5 is very attractive to look at, with an exceptionally pretty striped rosewood infill. The iron comes with very light milling marks on the surface, and only modest lapping is needed to get a first-class edge. As supplied, the iron was sharp enough to use for testing purposes, and only needed a little work to make it sharp enough for cabinetmaking. The mouth opening is very fine, and will accept one sheet of photocopier paper, but not two. This means that it will choke if you set the cap iron too close.

Blade and chipbreaker are very accurately ground and set up



Nice touch – the gunmetal knob on the adjuster



'Norris planes are not at all like the familiar Bailey planes, and they will not suit everyone'

Lateral thinking

At this point, I have to say that I have no prior experience of the Norris patent adjuster; my own Norris smoother is a No.2, which is adjusted like a wooden plane by gentle tapping with a hammer. Although I found the depth adjustment on this plane very impressive, the lateral adjustment was not at all easy.

The lever has such a short travel that the iron cannot be set square, unless it is ground accurately and inserted very carefully to start with. A little regrinding was also needed to make this one square enough. Even then the lateral adjustment lacks subtlety, with only a small movement of the lever being enough to send the blade all the way from one extreme setting to the other.

Verdict

Having struggled for quite a while to make this plane cut evenly, once I had got it right it suddenly came to life and worked very sweetly indeed. Don't forget to slacken off the fixing screw before making adjustments.

I found it happier on some woods than others. I didn't get a good result on boxwood, but perhaps this would not have been the case with a little more practice. On mahogany it was in its element, and it also made a remarkably good job of tightly rippled sycamore, which I would not normally think of planing except with a toothed plane. All in all, I'm afraid it easily outperformed my scruffy old Norris.

Stephen Haynes



Front view showing the gunmetal lever cap

Availability and price

RRP: £375

Contact: The Old Tool Store. Tel: 01790 763406
Email: ray@oldtools.idps.co.uk

RAY ILES A5



ALSO RAY ILES A6 PARALLEL SIDED PLANE
£375 EACH - POST FREE WITHIN U.K.

AVAILABLE FROM:

The Old Tool Store
RED LION INN, EAST KIRKBY, SPILSBY,
LINCOLNSHIRE PE23 4BX
TEL: 01790 763406

U.S.A DISTRIBUTOR:
TOOLS FOR WORKING WOOD, P.O. BOX 1951,
NEW YORK, NY10159-1951
TEL: 212-604-9534

g and m tools

selection of good used woodwork benches from stock

email: sales@gandmtools.co.uk

web: www.gandmtools.co.uk



Beech Topped Woodworkers Bench

Fitted 2 7" Record Quick Release Vices, 54" long, 28" wide, 30 1/2" tall. Open Fronted. Some of the tops of these benches have been painted or are paint splashed. Strong and Sturdy.
£135.00 plus VAT



Flip Top Multi Media Bench

Fitted 2 Record 7" Quick Release Woodwork Vices and 2 Record 4" Engineers Vices 54" Long, 30" Wide, 30" Tall. Ideal for Occasional Woodwork and Metalwork. Convert in Seconds from one to the Other.
£135.00 plus VAT



Beech Topped Woodworkers Bench

Fitted 2 Record 9" Quick Release Vices 60" Long, 27" Wide, 31 1/2" Tall. Cupboards Under The Tops on these Benches are Paint Splashed and Worn. Strong and Sturdy.
£135.00 plus VAT

Benches subject to carriage and vat. All subject to availability
Send for full brochure and visit our website. Callers are welcome to come and browse in our huge shop.

Open Mon-Fri 8am-5pm, 2pm-5pm,

Saturdays 8am-1pm Closed Sundays

g&m tools, The Mill, Mill Lane, Ashington, West Sussex RH20 3BX

Phone 01903 892510 Fax 01903 892221

Titman The UK's unique router bit company



Titman Tip Tools Limited is the only U.K. based manufacturer selling a complete range of router bits and associated tooling through selected distributors in the UK, Northern Ireland and Eire.

Product catalogues available.

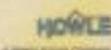
Our distributors are able to offer both re-sharpening and quality technical advice. Many are members of the Saw Doctors Association.

Titman even manufactures its own tungsten carbide made to aerospace standards, developed to cut MDF and most hardwoods.

Titman Tip Tools Limited

Valley Road, Clacton-on-Sea, Essex CO15 4AB

Telephone: 01255 220123 • Facsimile: 01255 221422
e-mail: sales@titman.co.uk • www.titman.co.uk



Q&A

Send your questions, letters and suggestions to
Colin Eden-Eadon, Q&A, Furniture & Cabinetmaking,
GMC Publications Ltd, 86 High Street, Lewes, East Sussex BN7 1XN
or email: coline@thegmcgroup.com



Colin Eden-Eadon
The Editor of F&C.
Based at the Edward
Bawden Workshop



Andrew Skelton
Construction and design
in mixed media.
Based as an invited
designer and maker
furniture, much of which is
community-based.



Kevin Ley
Contemporary rural
furniture-making.
On leaving the RAF he
turned a hobby into a
full-time business.



Michael Huntley
History of furniture.
Retired from the running
of Sotheby's workshop.
Michael is now a
freelance consultant.



David Charlesworth
Furniture techniques.
David trained with Edward
Bury, and now runs private
courses in fine furniture-
making from his home work-
shop in Devon.



Stuart Lawson
Design and batch
production.
The editor of The Router
and Woodcarving gained an
MA in furniture product
design at the RCA.



John Lloyd
Furniture restoration.
John trained with Bruce
Lockhart. He runs his own
workshop in Sussex and
offers courses.



Mark Baker
Carving, woodturning
and finishing
techniques.
Mark is the Editor of
Woodturning magazine and
Woodworking Group Editor

Backing Bristol

Referring to your editorial comment
'If you have any views on the subject
of chisels and/or chisel makers',
may I draw your attention to my
thoughts on your article.

To my mind, your criticism of Bristol Tools is
unduly harsh – yes they are different, but after
using a set for several years, I am very pleased
with them. Initially, I was surprised that they
were not conventionally forged, and I had to
flatten the backs – a problem not limited to
Bristol Design, it seems! This was done with a
good-quality diamond whetstone that despite
claims, do wear. I now use white spirit as a
lubricant, which works very well and avoids
rust problems.

Having flattened the backs I then had the
bevels reground. Although the correct angle
varies between 25° or 20° according to
Leonard Lee or Jim Kinghott, the regrounding
was done at 15° to match the cast-steel
Melhuish chisels I have. At this angle there is
less drift, especially when cutting up to a line
along the grain. The old hands at the local
joinery workshop also confirm this is a better
angle to use.

Despite regrounding to this angle with a
corresponding flatter cutting edge, I have never
experienced a chipped blade. This has even
been the case when cutting across the grain,
striking the chisel quite sharply – usually the
40mm size – with a carver's mallet while
squaring tenon shoulders. I agree it is possible
to get a good edge, which they do hold during
use. In my opinion, this speaks for itself about
the quality of the metal in the blades.

I agree with your comment 'we did like the
handles' – after all, they are traditionally
shaped. You could also have drawn attention
to the fact that they vary in size according to
the blade. To my mind, the balance and feel
are good – surely a valid point with the fine
work involved in furniture-making?

To be honest, the 35mm chisel was well out
of true, but the rest were perfectly acceptable
for what are hand-forged chisels. I have never
had a chisel handle work loose, and there is no
way I would choose a handle like Two Cherries.
In my opinion, it appears most uncomfortable
in use, especially when driving the chisel with
the palm of the hand across a tenon.

I do find your magazine interesting, as I feel
that it is directed more towards professionals –
especially the advertisements. However, I
would prefer more articles along the lines of
your other magazine (New Woodworking) as I
work mainly in oak making doors and windows
and am not a furniture-maker. 'Cast in the past'
was great – although I expect the new
regulations were the death knell of the series.

Michael W Hook, Kent

We found these
handles worked
for us



A We wanted to like them, and tried our hardest to do so. And we did think the steel was good quality. But whereas several other makes required some flattening, the Bristol chisels were deemed to need too much. Some also had definite steps in them.

We talked to other makers, one of whom had possessed a set for a few years. However, it had taken him many months of work to get them in shape. Most makers attempting to earn a crust just don't have that sort of time; they need to be able to pick up a tool and go. If this could be improved upon, and the handles put on straight, they would be good chisels.

You will see in the second part of our chisel test, F&C 80, we do mention the fact that the handles are graduated. While you might not choose the Two Cherries handles for yourself, all three of us did! The octagonal facets actually give a surface to place the fingers or thumb in use. We also canvassed other makers, who thought the same. In the end it is down to personal preference and what suits you (see letter on opposite page).

We looked at the balance of every chisel we tested, and some were better than others. But a good tool has to have most parts right, not just one or two.

C.E-E

Getting a handle on it

QI found the article about chisels very interesting. I was fortunate enough to put my tool kit together at a time when tools of quality were still available.

Although the choice was more limited, what could be had was mostly good. Not only that, but they were all made in this country.

As an apprentice, I was given good advice as to what makes to look out for, and what types of tools would be most suitable. Many years ago, I greatly admired the tool kit of an elderly joiner. His toolbox housed a rack of bevel-edge chisels fitted with octagonal boxwood handles – they looked so smart and practical. I decided that one day, I would like to own a similar set. Besides looking elegant they also had a practical side: chisels of this type could not roll off benches – someone once told me that it was a four-toed cabinetmaker who first designed them.

No matter how hard I searched, I could not find chisels with those handles. Nearly all the tools I bought had boxwood carver's handles – comfortable, but ordinary. Strange, I thought, that none of the pattern-makers with whom I worked possessed any of the old-type handles, all using the carver type instead. I later found the reason.

Our local ironmonger, who was a good friend, allowed me to root around some bins of assorted bits and pieces, which were covered in dust and had not been disturbed for years. I discovered several paring chisels and gouges among many other useful items, as well as one handle of the kind I wanted. Bearing my



London pattern handles proved to be the most comfortable for long-term use

treasures back to the workshop, my workmates advised me to fit the handle to the chisel I used most often. Being a bit green, I missed the gleeful looks on their faces as they gave me their advice.

On some jobs, like shaping a set of gear teeth, a paring chisel may well be the only tool that a pattern-maker uses for a few days on end. It was on such a job that I put my chisel with its new – or should I say old – handle to the test. After two days, my hand was painful and badly blistered.

Seeing this, the chaps who had advised me about the handle told me that had also been their experience. One of them opened a bench drawer and there was a till full of the things. It was then the realisation dawned on me that what was good for joiners or cabinetmakers might not suit the needs of pattern-makers. From then on, I went for comfort and safe-working and made use of the tool well – comfort and safety go hand in hand together.

Over the years, I have tried many kinds of chisels. I have found the plastic-handled ones to be uncomfortable, and as for the Japanese chisels with the horrid metal lump on their handles, one can expect a truly blistering performance. I wouldn't swap my pre-war and Victorian chisels for any of today's lot.

Ray Willis, Berkshire

AWell, most restorers – and not a few cabinetmakers – would agree with you on the old chisel front. However, it can take a long time these days to find and put together a decent set. So we thought you really ought to be able to find good chisels to buy off-the-peg today. And we did find them, which was a pleasant surprise.

Although there is a mixture of nationalities in their manufacture – surely a reflection that we are in the EU – five of them are British. Two of the five came out as leading makes, with Ray Iles getting the Editor's choice. We have since heard that Ashely Iles now offers graduated handles, as well as the bubinga range.

C.E-E



Many makers scour boot fairs and antique shops for old chisels – you can get good steel, but it can involve a lot of work

WIN!

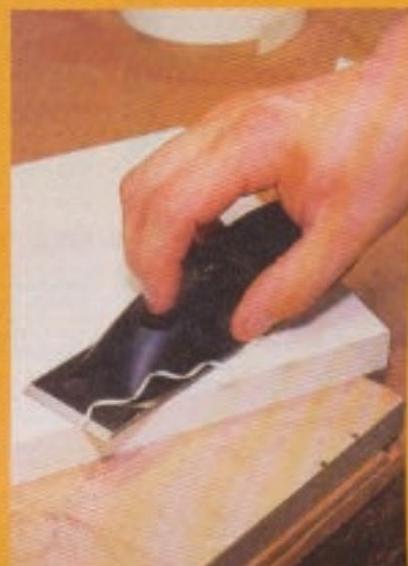
The star letter featured on these pages is sponsored by Veritas and will earn its writer a £100 Veritas voucher, to be redeemed against products of your choice from the BriMarc catalogue.

veritas®

For further information about Veritas products, contact:
BriMarc Associates,
8 Ladbroke Park,
Millers Road,
Warwick, CV34 5AE
Tel: 0845 6590000
Email: sales@brimarc.com

Send your questions, letters and suggestions to:
Colin Eden-Eadon,
Q&A, Furniture & Cabinetmaking,
GMC Publications Ltd,
86 High Street, Lewes,
East Sussex BN7 1XN
or email: coline@thegmcgroup.com

You could use your voucher to buy tools like this excellent flush plane by Veritas



ALL PHOTOGRAPHED BY ANTHONY BULLEID/ANT



Your one stop online woodwork shop

- POWER TOOLS**
- HAND TOOLS**
- MACHINERY**
- GARDENING TOOLS**
- POWER TOOL ACCESSORIES**
- ADHESIVES & FIXINGS**
- WORKWEAR**
- BOOKS & VIDEOS**
- LIGHTING & SECURITY**
- TOOLBOXES & WORKBENCHES**

Comparison charts



compare all of the items we have in stock by the variables you choose - IE if you chose a power drill you could compare it to all of the others we have in stock by weight, speeds, chuck, etc, to make sure you've chosen exactly the right item from our massive stock.

WEBSITE EXCLUSIVE

1 Your custom pays!

Join our loyalty point scheme and you'll earn 25p in loyalty points for every £5.00* spent on products for use on future orders** every time you place an order with us.

*£5.00 excludes VAT and shipping

**Loyalty Points can only be used on orders over £30.00 ex. VAT and shipping

Our specialist website offers over 6,000 tools, accessories and more

New products added regularly not seen in our catalogue or adverts

2 Weekly Star Buys

WEBSITE EXCLUSIVE

Great special bargains updated weekly

3 Top brand names

WEBSITE EXCLUSIVE

Everything from DeWalt to Stanley

4 Bargain clearance lines

WEBSITE EXCLUSIVE

Excellent special deals

5 Quick order system

WEBSITE EXCLUSIVE

Order your goods with just a few clicks

6 Monthly Special Deals

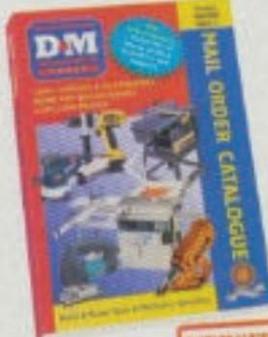
WEBSITE EXCLUSIVE

Great new deals every month

7 Secure ordering

WEBSITE EXCLUSIVE

To ensure that your details are safe with us



WEBSITE EXCLUSIVE

8 Versatile searching

Search by catalogue page no. or code

WEBSITE EXCLUSIVE

9 Various payment options

See online for details

WEBSITE EXCLUSIVE

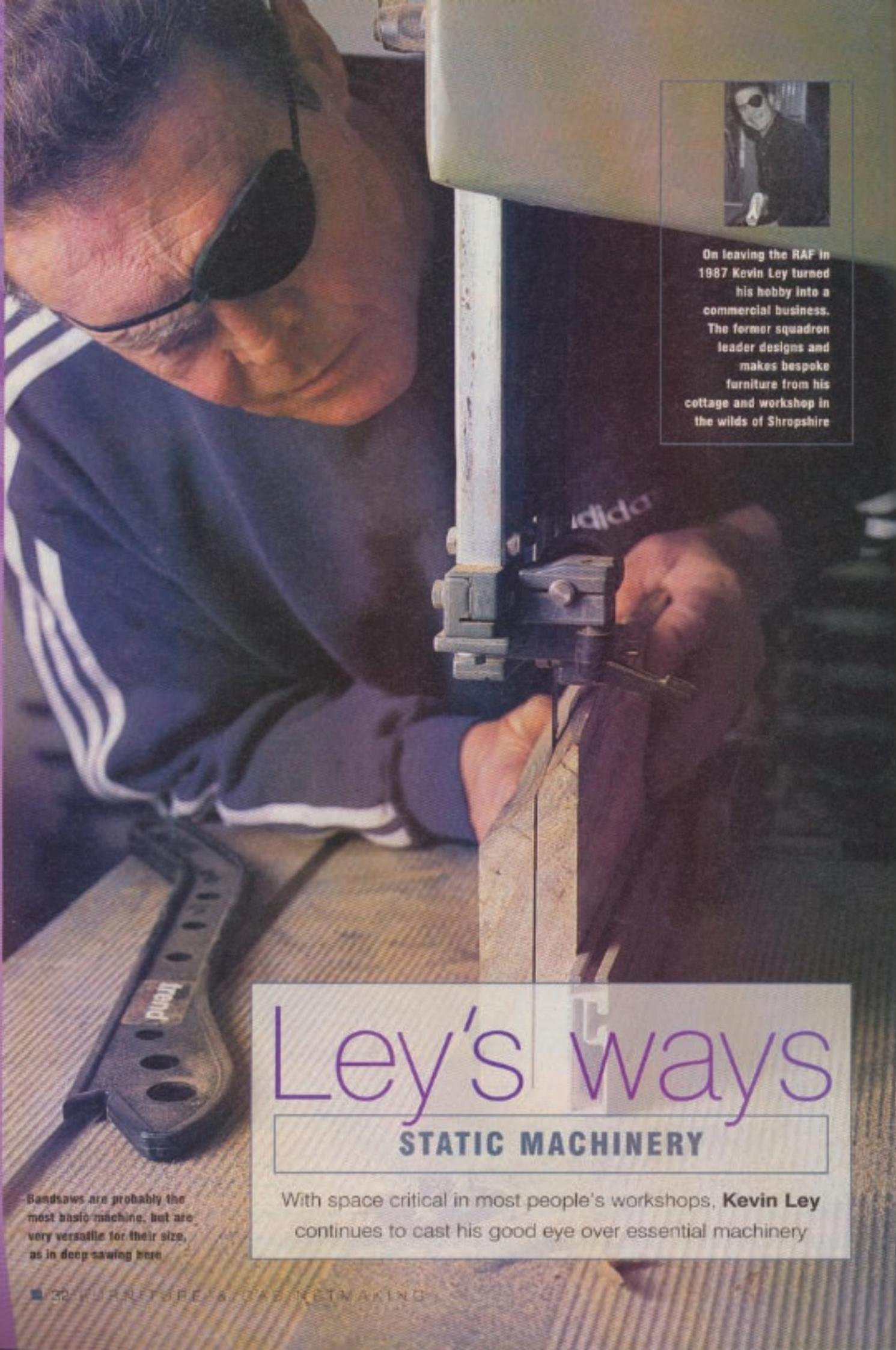
10 Always up to date

Our online prices are updated daily

Quick, comprehensive
and secure -
why wait?



WWW.DM-TOOLS.CO.UK



On leaving the RAF in 1987 Kevin Ley turned his hobby into a commercial business. The former squadron leader designs and makes bespoke furniture from his cottage and workshop in the wilds of Shropshire

Ley's ways

STATIC MACHINERY

With space critical in most people's workshops, **Kevin Ley** continues to cast his good eye over essential machinery

Bandsaws are probably the most basic machine, but are very versatile for their size, as in deep sawing here

This month, Kevin looks at ways of prolonging your career and keeping all your digits, starting with dust extraction.

DUST EXTRACTION

The planer-thicknesser is the machine which really underlines the need for some sort of dust and chip collection. So much waste is produced that neither you nor the machine can work properly or safely without one.

There are many dust extractors on the market, and it is important to understand which is suitable for your needs. They fall into three types:

HIGH-VOLUME LOW-PRESSURE

This type moves a large volume of air at low pressure, has a coarse filter, and is most suitable for collecting chips and coarse dust. The hose diameter is approximately 75mm (3in), and any reduction in that or increase in length markedly reduces efficiency.

They are often used for planer-thicknessers and ripsaws, which produce large quantities of chips rather than fine dust. Although they collect most of the waste, unfortunately the fine dust they let through is the most harmful. Breathing masks are, therefore, still essential. They have a large waste capacity, but do take up workshop space.

LOW-VOLUME HIGH-PRESSURE

These are more like large domestic vacuum cleaners, shifting a smaller volume of air at a much higher pressure. The maximum hose diameter is 50mm (2in), and the filter system goes right down to very fine dust.

However, they have a relatively small waste capacity making them more suitable for belt sanders and routers. Anything producing bulk shavings will either clog the narrower hoses or fill them up very quickly. Usually on wheels, they are very convenient to move around and take up little space.

HIGH-VOLUME HIGH-PRESSURE

These are bigger versions of the last type with very powerful motors. Suitable for remote static siting, they can also be connected to a ducted system. This is where the machines are all permanently plumbed in and controlled by opening and closing blast gates, applying the dust collection to the relevant machine.

Able to handle large quantities of mixed chips and fine dust, the hoses can be stepped right down to 25mm (1in) for a belt sander or up to 100mm (4in) for the ripsaw and planer. However, when exclusively producing large volumes of fine dust, like during belt sanding, the fine filter end clogs and the machine loses efficiency.

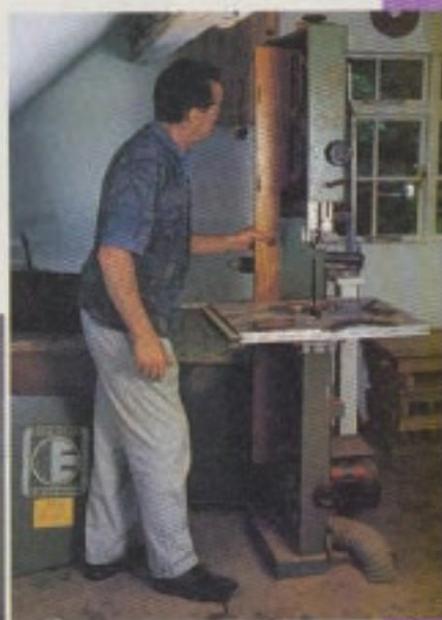
Emptying, changing and cleaning the filter is a bit of a hassle, and I have recently bought a small low-volume high-pressure extractor to use on fine dust producers. It is cheaper and quieter to run, portable, and much easier to empty and clean. It also has the added advantage of an electrical socket for the power tool, which automatically switches the extractor on and off with the power tool switching.



Above: High-volume low-pressure chip collector



Left: Static plumbed in high-volume high-pressure dust extractor



Below: Aligning bandsaw wheels with straightedge

Ripping is most accurate on a table saw

BANDSAW

My first bandsaw was really only DIY standard and I quickly found it would not do what I wanted. On its stand it took up the same floor space as a machine of much greater capacity, and being lighter it was not so stable.

Apart from the standard bandsaw cut, I needed to deep-saw burr elm for book-matched panels, cedar of Lebanon for drawer casings, and saw-cut veneers. Also, any timber of 75mm (3in) or more in thickness was really beyond the capacity of my other saws, so I wanted a big bandsaw with plenty of power.

I chose the Electra Beckum 450 with a 430mm (17in) throat and 305mm (12in) depth of cut, backed by a powerful motor. This has served me well over the last 16 years, though the aluminium table and fences are a bit naff. I notice a new version of this machine – the BAS 600 – has a cast-iron table and micro-adjustable fence, which would be even better.

When setting up, check the wheel alignment by placing a straightedge across the rims – it should touch the top and bottom of each wheel at the same time. The blade should run on the centre of the wheel tyres. Blade tension, guides and thrust bearings should all be set accurately to the maker's instructions.

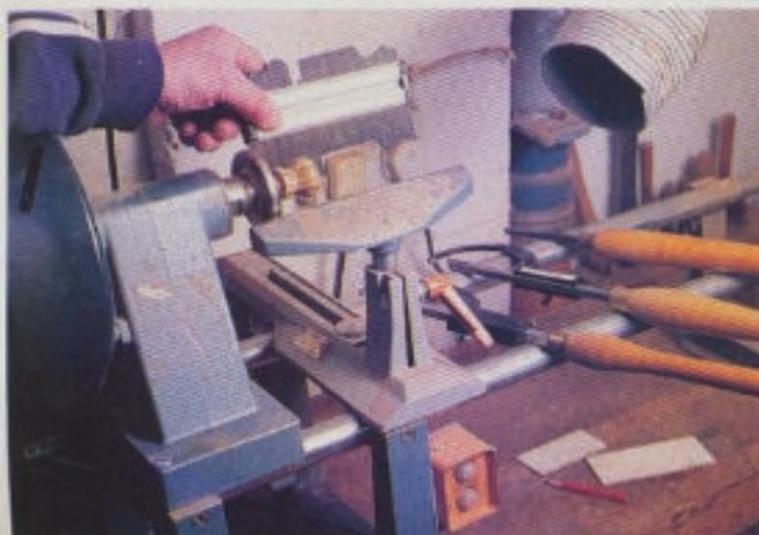
BLADES

As usual, the most important factor is a sharp, suitable blade. Trying to cut too tight a radius with a wide blade, a straight line with a narrow one, or burning your way through the wood with a blunt blade is slow and inaccurate.

The wider the blade the straighter the cut. Conversely, the narrower the blade the tighter the curve it can cut. The greater the number of teeth to the inch the slower and finer the cut, and the hotter the blade gets.

I find a Xin, 4 or 6 TPI blade most suitable for general work and deep-sawing. I have narrower blades for tighter curves and even a very fine-toothed blade for cutting sheet metal. I have always used blades with hardened teeth, which are disposable and cannot be sharpened. The backs of the blades are rounded over with an oilstone to allow slightly tighter turns and protect the thrust bearings.

Below:
Lathe with
sizing tools,
profile copier,
marking rods,
and dust
extraction
hose



Drilling large holes accurately, like this 35mm hole, can really only be done on a pillar drill

CIRCULAR TABLE SAW

As the RA saw is to crosscutting, so the table saw is to ripping. I don't do anything fancy on mine, just use it for what it is really good at – ripping straight lines. My present DeWalt 744 is very flexible, having a rack-and-pinion telescopic fence system and extension tables. These give over 50mm (2in) rip capacity when required, but all slot back into the machine out of the way when not in use. On its stand, it is stable but still easily moved. I use a 24-tooth TCT blade – incidentally, remember that even TCT blades get blunt and require sharpening occasionally!

When using the circular saw, remember not to stand in the line of fire behind the work – use roller stands at both ends for long pieces, and push sticks to keep fingers clear of the teeth.

LATHE

My Elu lathe is nearly 20 years old, and was only ever of serious hobbyist standard. Nevertheless, it has served me well over the years – even though its prime function has only been drawer pulls, dowel pegs and bun feet.

This is a rarely used tool, but still necessary for convenience. I have a very basic range of tools and use all the help I can get, including: profile finders, rods to mark cut positions and, most of all, sizing tools to achieve constant diameters.

Like any infrequently used skill, there is always an initial learning curve so I try to do all the turning for any project in one batch, with extra 'insurance' pieces.

■ SHARPENING TURNING TOOLS

A long time ago in Yorkshire, I turned a few natural-edged burr elm bowls to serve as impulse buys when displaying my work in a local show. Admiring them, a redundant miner told me that he was trying to develop his turning hobby into a business, but was finding it difficult to do fast, accurate work, and would I take him on as a student?

Keeping an absolutely straight face, and calling upon every ounce of my military training, I made vague excuses, but he was very insistent. Clutching wildly at straws, I asked him how often he sharpened his turning tools. "Every week without fail," he said.

Now on safe ground, I replied with great relief: "Well I sharpen mine about every five minutes," and with no loss of face, sent away a satisfied customer. Sharp tools are always the secret.

■ BENCH DRILL

Bench drills can give truly vertical holes, accurate angle drilling, repeats, safe large-diameter drilling, and – with suitable attachments – even mortising. All this, and they are still amazingly cheap.

For anywhere between £50 and £100 you can get a substantial multi-speed model. Attachments such as machine vices and table clamps are also inexpensive and readily available.

These bench drills may not have the absolute accuracy required for aircraft engineering, but they are much better than free hand – I wouldn't be without mine.



Slot morticing on a planer can limit space and cause a few bruises!

■ BENCH MORTICER

Over the last few years I have found myself using my slot morticer attachment on the planer-thicknesser less and less, and smacking myself on the handles more and more. The router and biscuit jointer were taking over.

When I changed my planer-thicknesser, I did not get the slot-morticing attachment and saved some floor space – and bruises. I considered a morticing attachment for my pillar drill, but found a bench morticer more substantial, more accurate, and easier to use.

It has the added advantage of being quite compact, and can be stored under the bench until required. It is slower than the slot morticer, but will only be used occasionally.

■ CONCLUSION

Static machines take the hard labour out of the workshop, and make our work economically viable. There is no shame in using machines – in fact, many tasks are actually better and more accurately done by machine. They also release us to provide the creative and artistic input, maximising our contribution to the added value.

I try not to be too obsessive about all aspects of accuracy – wood is inherently inaccurate in that it moves as its moisture content changes anyway. Better to concentrate on the really important areas rather than pedantically chasing horizons. For instance, I often cut tenons slightly oversize on the machine and trim with a shoulder plane to a perfect fit for each mortice.

Remember that about 750 watts of electrical power equals one horse power. Most static machines are at least two horse power, and imagining yourself to be at the back end of a couple of frisky horses will focus the mind on the potential danger quite well! If you do something unusual on a machine – especially if it involves removing a guard – think it through very carefully, and always keep all your soft pink bits at least 100mm (4in) away from the blade!



A bench morticer takes up less space

Further reading

Kevin Ley's Furniture Projects,
by Kevin Ley, £14.95,
GMC Publications
ISBN 1 86108 185 5

Furniture Projects with the Router, by Kevin Ley, £14.95,
GMC Publications
ISBN 1 86108 359 9

GMC books are available by mail order. Please add postage – £2.50 for the first book (UK), or £3.50 (overseas), plus an extra £1.50 per additional book. Ring GMC orderline: 01273 488005.

Suppliers

DEWALT RADIAL ARM AND TABLE SAW:

Often best bought as special offers from tool suppliers – check out the ads in F&C!

Available from DEWALT: www.dewalt.co.uk

Tel: 01753 567055

ELECTRA BECKUM BANDSAW AND PLANER-THICKNESSER:

Available from ELECTRA BECKUM: www.electrabekum.co.uk
Tel: 02380 732000

CLARKE PILLAR DRILL AND BENCH MORTISER:

Available from CLARKE: Tel: 01992 565333

WV 2000 FIXED HIGH-VOLUME HIGH-PRESSURE DUST EXTRACTOR:

Available from AXMINSTER POWER TOOL CENTRE: www.axminster.co.uk
Tel: 0800 371822



"We've seen the future and its designed by **LEIH**."

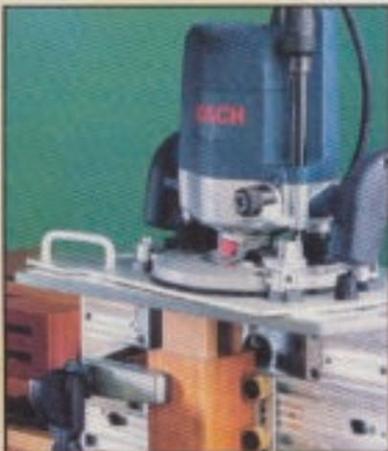
Good Woodworking Feb 2003

STILL the world's finest dovetail Jig £339.50 inc vat

- Infinitely variable spacing for both through & half blind dovetails.
- Easy lay out of fingers for joint design
- Angled, end on end and inlaid dovetails
- Any board widths up to 24"
- Cross cut bar for sliding dovetails & tenons
- Metal fingers not plastic

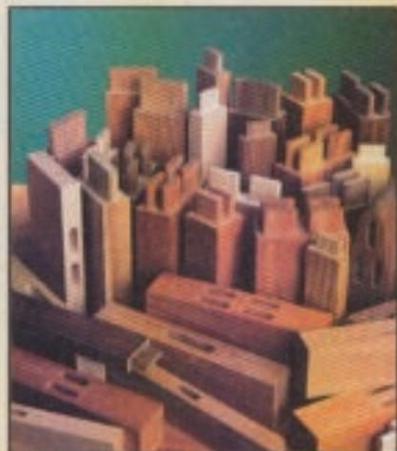


The Frame Mortice & Tenon Jig £650 inc vat



Easiest, fastest and most precise way of cutting the oldest woodworking joint!

- Simplicity of set up
- Precision of joint alignment
- Adjustable tightness of fit
- 70 sizes of joints



NEW to the U.K.

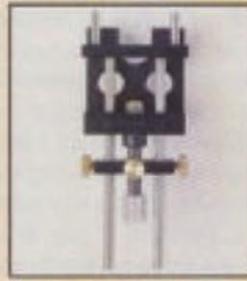
Micro Fence Edge Guide System



The Micro Fence System turns your hand held router into a precision milling machine for straight line, circular & elliptical woodworking applications, maximising accuracy & efficiency.

For an information video call now

on 0845 330 9100



**For more information or to PLACE YOUR ORDER
call BriMarc on: 0845 330 9100 (quote FCM01)**

E&OE

From the
BriMarc
people

It's not every day you get a request for a communion table – let alone a portable one. All became clear once the commissioning party explained that the main altar stood some distance away from the congregation, and the vicar understandably wanted 'proceedings' to be both nearer and in full view of his flock. Portability, therefore, was vital.

THE BRIEF

Aside from being portable, another point of influence was that as the table would be situated against a sizeable step up into the aisle between the choir stalls, it had to be a good deal higher than usual. However, the design is readily adaptable to a normal table height such as 760mm (30in) – in fact, a much smaller version would be very suitable as a credence table.

The design brief was greatly influenced by the height and portability requirements, which also dictated the need for a sturdy construction. I was also asked to include quite a few style features to reflect the surrounding church fittings, many of which were of a good age. The deep upper cross rail feature and carved crosses were greatly favoured by the vicar.

As is often the case with one-off commissions, the design was really a foregone conclusion – something that is frequently more difficult than starting with a 'blank canvas'.

PREPARATION

I set about preparing a scale drawing, taking full account of the features requested. Although I did offer design alternatives for the leg frame, in the main the decisions were upheld. As construction sturdiness was the order of the day I opted for 37mm (1½in) oak for the main structure, with the exception of the deep upper cross rails which were 25mm (1in) oak.

On receipt of the approval on the design I was able to confirm my order to the timber supplier. The wood then resided in my workshop for a couple of weeks to allow it to settle down. It is particularly important with church work to ensure you gain full approval or 'faculty' on the design before beginning work.

My starting point was to cut each component to length, and run everything through the thicknesser and jointer to ensure it was all consistent. The most



HOLY ORDER

Norrie Dinning helps solve a parish problem by designing a portable communion table



Main pic:

The portable communion table, stained and oil finished

Top left: Cleaning up the top

Middle left: First cut of the cross rail tenons

Bottom left: Cutting the shoulders

critical component in the 'look and feel right' category was the top, which was to be made up of two 230mm- (9in) wide boards. It is important to ensure alternate grain between the boards for stability.

Having marked them up, I duly took the boards to my trusty biscuit jointer. To give me the solid result I required, I decided on seven No.20 biscuits.

It is important to ensure good alignment when clamping up the top, as this minimises subsequent dressing with plane and sander – I used a simple four-way clamping system. Wanting to create a lighter look to the top, I assembled the router with a concave-shaped cutter to rout the underside on all four edges once the top had set.

To avoid breakout, I clamped waste at either side when routing across the ends. However, even with the four-way clamping of the top, I still had to do a nominal bit of planing and sanding to gain the desired result. My standard practice is to power sand using several different grit grades.

It is important to make clear at this point that all guards and hoses have been removed in the pictures to aid photography and should, of course, be kept on during use.

Top right: All the rail components complete

Middle right: The leg frames in clamps

Bottom right: Carving the cross

Far bottom right: The completed cross



■ DETAILING THE LEGS

I was now ready to undertake the detailing of the leg features, as had been requested. This took the form of a 'stepped out foot' shape, which was first drawn onto a piece of hardboard and then cut out on the bandsaw – by far the best way of producing eight identical leg ends. Before cutting the profile of the legs, I deemed it prudent to first cut the mortices for the leg cross rails.

Cutting the profiles is ideally suited to the bandsaw. Using a fine fret-type blade, I first cut the curved ends. This was followed by a cross-cut out to allow the ripping blade access to cut the straight section. Once in position, I slid a clamp bar in place for the straight cut – I found this easier than using the standard fence. Having cut the stretcher tenons, I then dealt with the lower stretcher rail in exactly the same manner.

The leg profiles were cleaned up using a bobbin sander for the curves and a half-sheet sander for the straight section. I find this readily deals with the few wrinkles I always seem to get when bandsawing.

The next stage in detailing the legs was to apply a chamfer cutter with bearing to the outside edges between the end profiles. I used simple clamped stop blocks to ensure a consistently accurate start and finish.

■ TACKLING TENONS

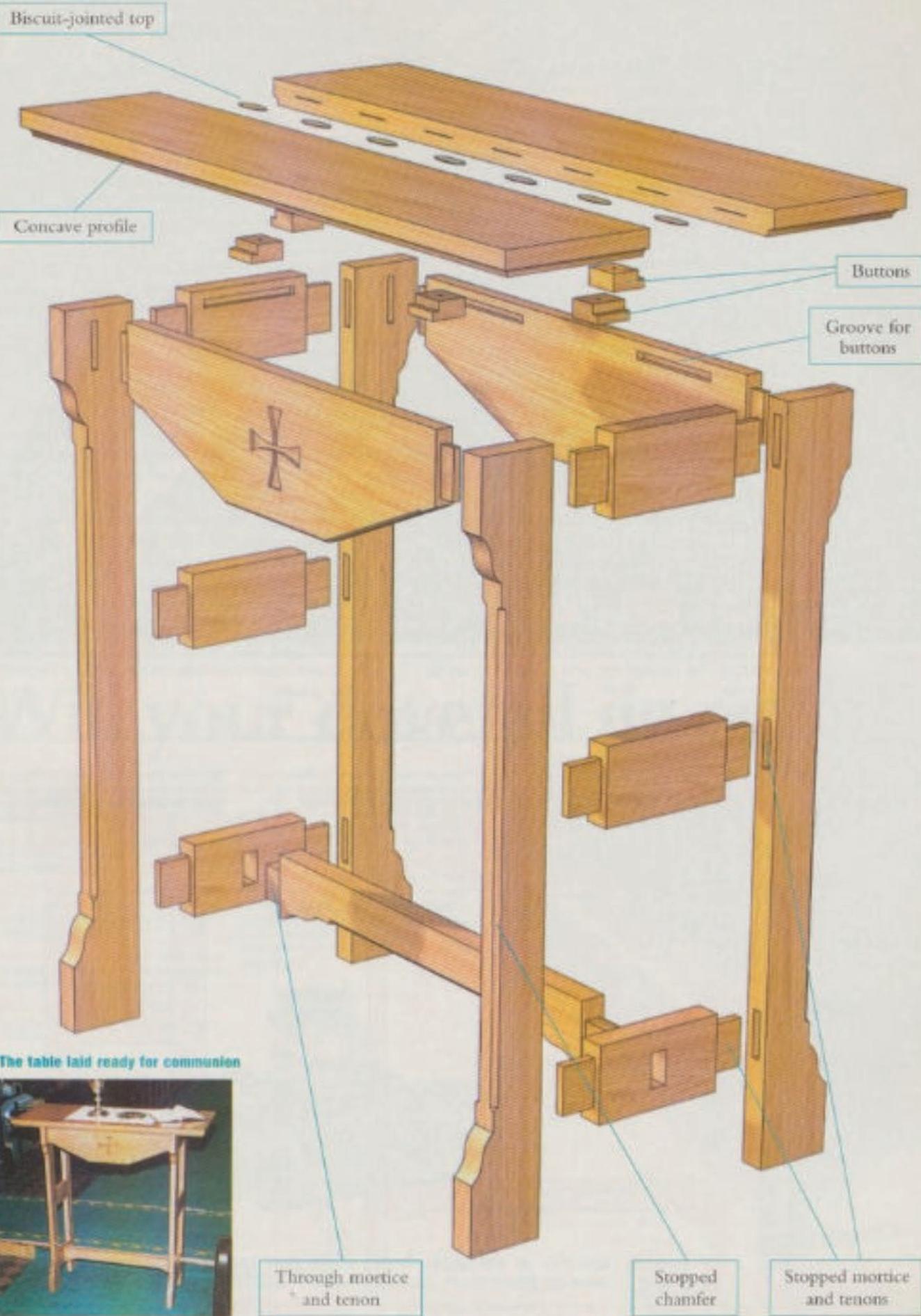
Once the legs had been done, it was time to tackle the leg cross rails and their tenons. These were duly marked up and cut on the bandsaw, although you can cut them by hand. With the 12 tenons complete, I marked up the two bottom cross rails for the through mortices. This was to accept the extended tenons of the stretcher rail, and was one of the features requested during the design brief. The ends of these tenons were shaped on the disc sander.

The last remaining work to do on the legs was to cut the mortices to take the two upper deep front and back cross rails. The upper cross rails were now marked out with the deep sloping lower edges and the outline of the cross, not forgetting the tenons.

Cutting the sloping edges is easily done on the bandsaw, but I did experiment using the mitre saw which has a 300mm capacity. The sloping edges were quickly cleaned on the disc sander and finished off with the half sheet sander.

The tenons were next, with cutting done partly on the bandsaw and partly by hand to ensure accurate shoulders. I allowed for a 25mm (1in) top shoulder on each tenon to aid the gluing surface area. The three





lower edges were then routed with a stopped chamfer in a similar style to the legs and lower stretcher rail.

■ FIXING AND CARVING

My choice of fixing method for the top and leg frame was the very traditional button-and-groove technique. This time-honoured method gives a strong fixing while taking account of any subsequent movement that might occur.

The grooves were duly routed on all four inner faces of the top rails. Owing to their size, the two leg cross rails were a little awkward to hold down, so I used a reversed clamp bar. A sash cramp in the bench vice will also do the job. The buttons are made from off-cuts of oak measuring 25 x 50 x 50mm (1 x 2 x 2in) and set in a 12mm (½in) groove.

The final detail to be added before the assembly stage was the incised carving of the cross on both of the deep cross rails. This is not as daunting as it may first appear, and can be undertaken with an 8 or 10mm carpenter's chisel, a mallet and a craft knife. The knife is used for cleaning up the detail, supported by a fine file and an emery board. A set of French curves can be used to create the initial outline.

To indicate the intended depth of the carved detail, a centre line was drawn through each arm of the cross and diagonal lines drawn at each end from the centre lines. I carved one side of each arm at a time, before moving on to the second side.

For the novice carver, I would suggest a good starting point would be to obtain a book on the subject from the local library and practise on some scrap timber.

■ ASSEMBLY

Once the carving had been completed, it was time for the dry assembly. This ensures everything has been cut correctly and fits. I then began the glue up, starting with the leg frames. When these had duly set, the upper cross rails and lower stretcher rail were added and having achieved the required sturdy leg frame, I then checked for square.

The final step was to button the top to the leg frame assembly. To do this, it is easiest to carefully invert the top onto the bench – with suitable protection of course. The leg frame is then centred on the top, allowing the buttons to gently slip into position.

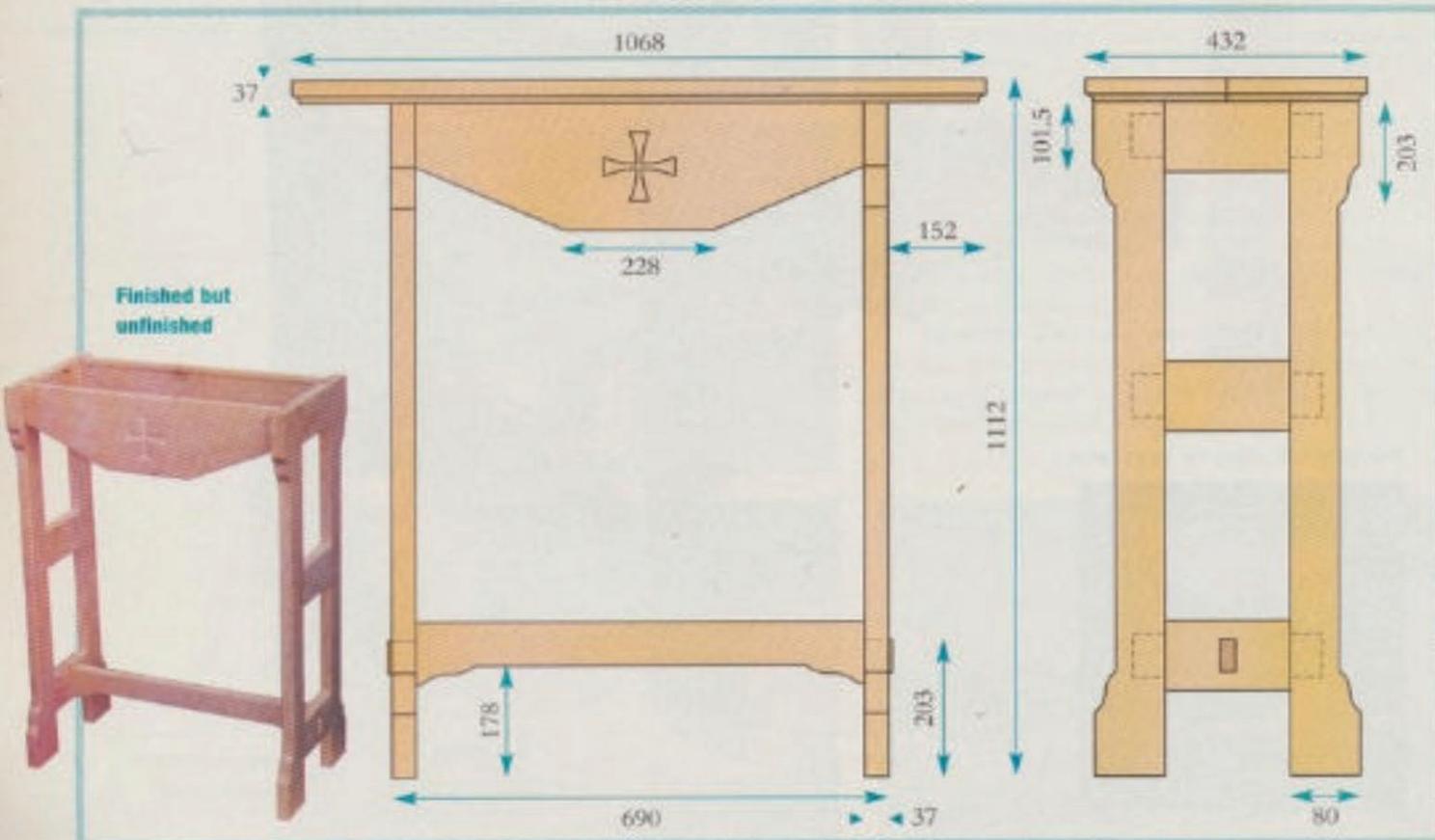
I would advise drilling the buttons into the top at this point to ease the screwing down of the buttons – vital if brass screws are chosen. I opted for coated steel screws, bearing in mind the stress applied by the portability requirement.

■ SURFACE FINISH

During the brief, we discussed the surface finish at length, finally deciding on a mid-tone oak stain followed by an oil finish that would be waxed from time to time. The oil finish was to be six coats of Danish oil.

Ensuring that all coats were applied in the direction of the grain, the first coat was brushed on and gently wiped. The next three coats were wiped on – allowing 24 hours between each coat. The fifth coat was brushed on and rubbed down with wet-and-dry abrasive to denib the surface and then wiped down. This was followed by a final coat.

A few days later, when thoroughly dry, a beeswax polish was applied with an ample amount of good old elbow grease.



The Pax range

Finest quality saws handmade in Sheffield

No.1 on test in
Traditional Woodworking

A truly beautiful woodworking tool
Jeff Leader, October 2000

Also available

The Lynx range

Thomas Flinn Sawmakers

114 Harvest Lane

Sheffield S3 8EG

Tel: 0114 272 5387 Fax: 0114 272 5389

Website: <http://www.flinn-garlick-saws.co.uk>

Email: sales.info@flinn-garlick-saws.co.uk



Will your dovetail jig cut it?

Through Dovetails: Undoubtedly the widest usage of variably spaced through dovetails. Use any make of bit, but WoodRat bits are the finest available anywhere.

Half Blind Dovetails: The perfect way to produce top quality drawer fronts, check out our results free download here.

Mitered Through Dovetails: Achieve neat, tidy and easy mitres to take rebates round the corners of the box with the user friendly WoodRat Mitre Box (CIR 06 inc vat).

Decorative Dovetails: Fancy something a little different, jazz up your corners with double dovetails using a contrasting wood to inlay.

Secret Dovetails: No mystery... just an extremely strong, hidden joint, showing no end grain.

Solid Dovetails: Ideal for the main frame of your cabinet, drawer bottom and shelving.

Batch Production: Quality and quantity using WoodRat's Batch Production capability. It's easy to set and accurate, you will have the job finished in no time.

Once you have finished dovetailing, use your WoodRat for Mortises, Tenons, Grooving, Rebating, Inlaying, Panel Raising, Drilling, Moulding, Rabbet and Fielding Panels, Chamfering, Trenching, Honing joints and much, much more. Call or visit [woodrat.com](http://www.woodrat.com) for the full picture.



"An excellent dovetailer, capable of producing the finest joints"
Andy Standing, The Woodworker

CALL TODAY FOR YOUR
FREE BROCHURE
0845 458 2033 | NEW WEBSITE & ONLINE
STORE, PLUS FREE CD-ROM
www.woodrat.com

WoodRat £395.00
LittleRat £250.00



WoodRat
precision joinery machines

WoodRat, The Old School, Godney Wells, Somerset, BA5 1RY, UK, Email: sales@woodrat.com, Fax: 0845 458 2034

JESADA TOOLS

Only Our Service Exceeds Our Quality

We're back in the UK by popular demand!

Call now! for a FREE colour catalogue featuring the full line of Jesada's Premium Quality, USA-made Router Bits!

Twelve-Piece
1/4" Shank Set



£189.05 inc. VAT

600-503 This set includes 12 of the most popular router bit profiles on 1/4" shanks. Including 12.7mm diam. mortising, 12.7mm diam. flush trim, 6.35mm diam. straight, 19mm diam. straight, 6.35mm diam. round nose, 90-degree V-groove, 14-degree dovetail, 12.7mm high rabbeting, 45-degree chamfer, 12.7mm radius cove, 9.5mm radius roundover and 19mm high Roman ogee. Supplied in a solid hardwood case.

3-Bit Edge
Beading Set



£71.55 inc. VAT

600-635 These bits create a whole range of interesting edge effects and traditional molding designs, so they'll be popular with renovators and remodelers. For an extra-special effect make 2 passes and create a full-round edge.

Thirteen-Piece
1/2" Shank Set



£219.61 inc. VAT

600-505 This set includes 13 of the most popular router bit profiles on 1/2" shanks. Including 12.7mm diam. mortising, 12.7mm diam. flush trim, 6.3mm diam. straight, 12.7mm diam. straight, 19mm diam. straight, 6.3mm diam. round nose, 90-degree V-groove, 14-degree dovetail, 12.7mm high rabbeting, 45-degree chamfer, 12.7mm radius cove, 9.5mm radius roundover and 19mm high Roman ogee. Supplied in a solid hardwood case.

1/2" Shank
Doormaker's Set



£146.75 inc. VAT

600-509 Build beautiful doors and kitchens with this top quality set of router bits. These Sets are available in four different profiles to suit all needs. They include matched Rail & Stile Bits and a horizontal Raised Panel Bit. Supplied with 1/2" shanks and in a solid hardwood case.

Visit our website at www.jesada.com

Over 350 different Router Bit Profiles available!

The full line of JESADA TOOLS Router Bits are available in the UK from:



We Are 10 MINUTES
FROM M1 JUNCTION 15A

Tel: 01604 751688 Fax: 01604 759041

MTS (Power Tools)
97 St. James Mill Rd.
Northampton NN5 5JP

USA Quality!



Belt and braces

Colin Eden-Eadon gets to grips with Jet's cast-iron finishing machine and decides whether the sturdy sander would strengthen your workshop's armoury

Can be very handy for end-grain work.
The fence acts as safety stop

In furniture-making, there are very often lots of small components that require finishing in awkward corners or shapes, and a machine like this can be extremely useful. There is nothing ground-breaking about the design of the Jet, though. I remember there being very similar machines in our woodworking rooms at secondary school when I were a lad... those were the days...

First impressions

The main chunk of machinery that holds all the moving parts is a solid lump of cast iron – nearly always a good sign. The machine stand – an optional extra – is fabricated from thin steel. It also has a cupboard, which is a neat affair with a natty magnetic catch doubling as a handle. It comes with a foot brake – handy, if you need to make room for a larger component. So far, so good.

Changing belts and discs

The disc is very easy to change, as it is a Velcro-backed affair. The table is dismounted first, and then the hinged, plastic, bottom guard opens allowing access.

Changing the belt, however, is a different matter. There are two metal guard panels that are hinged and clipped, as well as a tensioning lever – simple enough getting it off, then. Putting it back on is straightforward enough too. Then there comes the adjustment.

This is not a fault of this particular model, but in my experience these machines are always fiddly to adjust. We had a big cast-iron industrial job that had great grooves on the screw adjusters where



Solidly built,
versatile, but
not ground-breaking

the belt had cut into them, and was a pig to set up.

Adjustment of these things does take a leap of courage and quickness. I have developed a technique that seems to work – most of the time! I start by hand, rotating the drum. Turning the screw, I then use several quick starts by flicking the on/off switch rapidly and watching with eagle eyes as the belt moves at great speed across the drum. Finally, I do a long run to check it is right.

Nasty injuries can occur, as the edges of these belts can cut through the metal side guards. If it cuts through steel, it will cut through bone! So if you see sparks or smell burning, turn off quickly! Not that I am trying to put anyone off buying this type of sander – there are inherent risks with any machine that is connected to a motor or attachment that goes at speed.

Right: Belt in the upright position

Below: Access for changing the belt is through the front and side panels that clip together



Right: Disc access is easy, and Velcro-backed abrasives makes changing them a doddle

Bottom right: Solid cast-iron table make for accurate work and inspires confidence



In use

Belt sanders are good for small components and some curved work. There is a solid fence, essential not only for square work but for safety too. It is very important to have a support on a fast-moving belt like this. With this machine, it is possible to put the belt bed in an upright position, making the machines very adaptable and versatile.

To assemble upright is straightforward – an Allen key on a collar around one end of the motor housing unlocks the pivot, and then locks it again once in position. The little table is fully adjustable and will take a mitre. It is a lighter construction than the other one, but this is fine. It also angles for slanted work.

Disc sander

Not much you can say about a disc sander really – it does what it says on the tin! The table is cast iron, which is good, and there is a fully adjustable mitre attachment. The table itself will adjust to 45° for angled work. There is a circle pivot that slots into the mitre grooves, which is OK if you want to make lots of toy wheels!

Verdict

I can't really get excited about sanders. The Jet is a well-built machine that does the job. It really depends on your needs – if you have lots of small components to make, this sort of machine could considerably speed life up for you. It isn't an essential machine for every maker, but if you have the space and the spare cash...

We will be looking at more of Jet's range of sanders soon, and I think the next one will be of more use to furniture makers. Watch this space... ■

JSG96 Facts & Figures

Belt size (WxL)	150 x 1220mm (6 x 48in)
Sanding disc diameter.....	225mm (9in)
Table size (WxL)	190 x 300mm (7 1/2 x 12in)
Table tilt	0-45°
Belt speed.....	10m/sec
Disc speed.....	1400rpm
Dust port diameter	100mm (4in)

Price: £390 (inc VAT)

Contact: Jet Machinery and Tools
on 0845 6040064

Website: www.jet.uk.com



For full details of over 130 different profiles please ask for a copy of our NEW Spindle Moulder Catalogue or speak to your local KWO stockist.

KWO Tools (UK) Ltd. 4 Strawberry Vale,
Vale Road, Tonbridge Kent TN9 1SJ
Tel: 01732 364444 Fax: 01732 351144
e-mail: sales@kwo.co.uk website: www.kwo.co.uk

HAFIXS
Professional Glue

One glue to glue everything...

20ml. Accelerator £ 5.00
30g. Filling Powder £ 5.00
20ml. Glue Remover £10.00
20g. Professional Glue £10.00 (cyanoacrylate)

£5.00 OFF when ordering all 4 items
Postage & Packing £ 1.95

Freephone Orderline: 0800 161 3035

HAFIXS Industrial Products, Park Royal House, 23 Park Royal Road, London NW10 7JH

IXES

PROFESSIONAL WOODWORKING MACHINES
INCORPORATING 70 YEARS OF GERMAN TECHNOLOGY

FORSA 5
PANEL SIZING
SAW (2.1m)
£2,715.00 as illustrated
Also available Forza 7 with 2.6m carriage £2,310.00

MOLDA 7
SPINDLE MOULDER
Also available Molda 7f moulder for panels

NMA

PLANA 7
PLANER/
THICKNESSER
(400x230mm)
£2,950.00

WOOVA 7
PORTABLE EXTRACTOR
Two other models available

BASA 5
BANDSAW
(450mm wheel dia.)
Also available Basa 7 with 600mm wheel dia.

WOOVA 7
PORTABLE EXTRACTOR
Two other models available

£1995.00

£2150.00

£1385.00

£1400.00

All main prices quoted are for basic machines only in 3 phase electrics allowing for recommended trade discount. Some models have alternatively larger 3 phase motors. All models available in 1 phase electrics if required.
Prices are ex works and exclude VAT.

NEW!

Comprehensive demonstrations available at NMA - Please book appointment through your nearest stockist.

NMA (Agencies) Ltd. Birds Royd Lane, Brighouse, West Yorkshire, HD6 1LQ.
Tel: 01484 400488 - Fax: 01484 711012. - E-Mail: sales@nmauk.com - Website: www.nmauk.com

Comprehensive NMA Catalogue e-mail sales@nmauk.com or call to receive your FREE! copy now.

JET

Can your current bandsaw cut it?

WOODWORKING BANDSAWS



SPECIAL OFFER!
5 FREE Blades
worth £50!

SPECIAL OFFER!
5 FREE Blades
worth £50!



NOW IN STOCK
JWBS-20
12" depth of cut,
20" cast iron
wheels

SPECIAL OFFER!
5 FREE Blades
worth £50!



- A high precision 8" depth of cut, 14" width of cut bandsaw
- Powerful motor delivers 3/4hp output
- Exclusive quick blade tension release lever prolongs blade life
- Polished cast iron table for accuracy and durability
- Table is supported by two trunnions allowing a tilt range of -10°/0°/45°
- Solid double end clamping T-style rip fence eliminates 'wander'
- Parallel cutting guide supplied as standard
- Rack guide with mm scale for accurate adjustment of the upper blade guide
- Manufactured from a solid weld design for accuracy and durability
- 100mm dust port and 60° tilting mitre fence supplied as standard
- Safety micro switch ensures the machine will not operate with the doors open
- Accepts 2540mm blades from 3-25mm width

240v Order Code JWBS14

Competitive selling price inc. VAT
£865.05

- A high precision 10" depth of cut, 16" width of cut bandsaw
- Powerful motor delivers 1 1/2hp output in 240v, 3hp in 400v
- Balanced 18 1/2" cast iron wheels minimise vibration and are fitted with curved long life PU coating
- Large 430 x 430mm cast iron table, tilts to each side & is supported by two large-scale trunnions
- Table tilt range of -10°/0°/45°
- Solid double end clamping T-style rip fence eliminates 'wander'
- Parallel cutting guide supplied as standard
- Upper micro adjustable precision blade guides for improved performance and extended blade life
- 100mm dust port and 60° tilting mitre fence supplied as standard
- Safety micro switch ensures the machine will not operate with the doors open
- Accepts 3125mm blades from 3 to 30mm width

240v Order Code JWBS16
400v Order Code JWBS16T

Competitive selling price inc. VAT
£978.78

- A high precision 10" depth of cut, 18" width of cut bandsaw
- Powerful motor delivers 2hp output in 240v, 3hp in 400v
- Balanced 18" cast iron wheels minimise vibration and are fitted with curved long life PU coating
- Extra large 485 x 485mm cast iron table, tilts to each side & is supported by two large-scale trunnions
- Table tilt range of -10°/0°/45°
- Solid double end clamping T-style rip fence eliminates 'wander'
- Parallel cutting guide supplied as standard
- Upper and lower micro adjustable precision blade guides for improved performance and extended blade life
- 100mm dust port and 60° tilting mitre fence supplied as standard
- Safety micro switch ensures the machine will not operate with the doors open
- Accepts 3380mm blades from 3 to 40mm width

240v Order Code JWBS18
400v Order Code JWBS18T

Competitive selling price inc. VAT
£1173.83

For details of your local stockist, please call 0845 6040064 (local call rate)
or visit www.jet.uk.com

J E T
TOOLS & MACHINERY LTD



INCORPORATING **CMT** Creusen **Titebond**



WESTPOINT EXHIBITION CENTRE EXETER DEVON
6, 7 & 8 NOVEMBER 2003

TICKET HOTLINE
01297 34836

competition at

**TOOLS
2003**

Don't miss out on the chance to enter the *Furniture & Cabinetmaking* competition at the Tools 2003 competition sponsored by Axminster

Now in its sixth year, the F&C competition will once again take place in November, with entries coming from all over the country. In previous years the calibre of the exhibits has surpassed all expectations, making this annual event a prestigious landmark on the woodworking calendar. With over 80 entries consistently every year, the competition is the most prestigious annual event in the country.

Judged at Tools 2003, Axminster Power Tool Centre's tool and machinery exhibition, the competition is open to everyone – professional, student or amateur – with separate categories and prizes for each.

Over the last five years we have had some absolutely stunning pieces from

all the various categories. This is your chance to enter and make it bigger and better than ever before – make the year 2003 special!

This year the F&C competition will take place at Westpoint Exhibition Centre, just off the M5, near Exeter, from 6 to 8 November. So start planning your entry now.

Judging the competition will be former Principal of Parnham College, Robert Ingham, along with F&C Editor Colin Eden-Eadon, and Publisher Paul Richardson — a formidable line-up!

This is your chance to enter — the closing date is Monday, 6 October, so don't delay, send for an entry form today. More detailed information about the venue will be in a future issue!

Entry forms

For details of the competition and an entry form, write to:

Janet Mitchell, F&C Competition,
Furniture & Cabinetmaking,
GMC Publications,
86 High Street, Lewes,
East Sussex BN7 1XN.



Photos show
just some of
the winners,
selected from
over 400
entries in the
last five years



Judges Paul Richardson, Alan Peters and Rod Wales deliberating at a previous show

Tools 2003 tickets

Confirmed entrants receive special entry passes, but even if you are not entering the F&C competition, you can still visit the show and admire other people's entries, which will be displayed on our stand.

Special Preview Ticket (Thurs 6 November)	£6
Advance ticket (Fri 7 or Sat 8 November)	£5
Two-day ticket (Fri & Sat)	£8
Tickets from APTC ticket hotline	01297 34836

IRWIN.

Marples

Family of Chisels

M5500
Bevel Edge Chisel
with Striking Cap

M373 Splitproof
Bevel Edge Chisel

M750 Splitproof Pro
Bevel Edge Chisel

IRWIN Industrial Tool Company Ltd., Parkway Works, Kettlebridge Road, Sheffield S8 3BL.
Tel: 0114 244 9088 Fax: 0114 243 4302 Web: www.irwin.co.uk

DEWALT®
WOULD LIKE TO CONGRATULATE
D&M TOOLS
FOR 25 Years TRADING

SEE **DEWALT** AT KEMPTON PARK INTERNATIONAL
EXHIBITION 26th-28th September 2003

www.DEWALT.CO.UK 0700 4 DEWALT (339258)



25
D&M
years
1978 - 2003

D&M Tools began life in 1978 as a family business. In the intervening years it has gone from strength to strength, building on a wealth of experience, and this year is celebrating its 25th anniversary.

Located in Twickenham, Middlesex, the company offers a large showroom where visitors can see and handle many of the tools available from the extensive range displayed.

D&M say: "Our aim is a simple one, to supply top-quality tools at the best value for money. We pride ourselves on supplying many of the biggest names in our industry, so offering leading brand names that everyone knows and trusts, all backed up by old-fashioned service which seems a thing of the past. Our friendly team will help with selecting and advising where required."

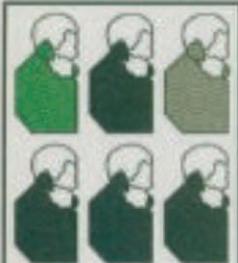
"As it becomes ever harder to buy good-quality tools from well-known brand names, we at D&M can pride ourselves on the fact that you can make a choice from the more obscure to the more common tools. Whether you are a keen amateur or professional, we hope you find what you are looking for."

"We have evolved over the last 25 years from supplying just to the local area to supplying nationwide through our mail order service. Our 288-page full-colour catalogue, packed with new products and the widest choice around from top brand names at great savings, has been added to our website. We have many new features on our site to make it both interesting and worth visiting time and time again, especially our weekly offers which are exclusive to people buying online."

"Our new site is a fully secure, online-24 hours-a-day ordering facility, so wherever you are, you can place your order whenever it is convenient."

scheppach | mafell | EUMENIA | IXES

N M A



AGENCIES

IXES | EUMENIA | mafell | scheppach

Yukon TEKNA UNIMAT

Wish D&M Tools
many happy returns
for providing quality
tools for 25 years.

STANLEY

MAKE SOMETHING GREAT™

Congratulations to D&M Tools
on their 25th Anniversary.

KITY
WOODWORKING MACHINES
A STAYER GROUP COMPANY



HAND & POWER TOOL SPECIALISTS
0800 0452 052

DM
MADE IN ENGLAND

Tel: 020 8892 3813
www.dm-tools.co.uk

This one's the Big One!

Date: Friday to Sunday, 26th to 28th September

Place: Kempton Park Racecourse

Time: 10am to 5pm

Nicknamed the 'Big One', Kempton Park Woodworking Exhibition is D&M's annual extravaganza.

It sets new standards by being the first major show to offer both free parking and free entrance, and offers fantastic show deals and massive displays by the brand leaders. This is the show not to miss.

D&M will be offering lectures on a variety of subjects throughout the three-day bonanza; times will be announced in the free show guide available before the event.

Should you have any suggestions for lectures that might interest yourself or others please feel free to let the company know by emailing to: kempton.suggestions@dm-tools.co.uk

25 special deals

Throughout the Exhibition weekend, D&M Tools will be celebrating its 25 years of age with some very special offers on well-known and trusted top brands.

The formula is simple: 25 very special deals from our top 25 suppliers to celebrate our 25 years. D&M are so excited about what they have secured for woodworkers that they say people will be talking about these deals for years to come!

Tools worth £1000s will be there for the winning by entering prize draws. All you have to do to help D&M celebrate its 25 years in business is to accept their invitation to join the company for a splendid day out - or three.

For more details on the forthcoming show see the home page on D&M's website and click on Kempton Park.

Buy the Makita LS1013 260mm Slide Compound Mitre Saw and get this **FREE!** and this

Makita

D&M
TOOLS

D&M Tools, 78-82 Woods Rd, Tonbridge, Kent, TN9 1EJ Tel: 0208 873 3813

Available from
D&M Tools
A Trend Routing Centre

D&M
TOOLS

**THE
T-SERIES
ROUTERS**

SEE THESE AND OTHER
PRODUCTS AT KEMPTON
PARK ON THE 26th - 28th
OF SEPTEMBER

trend®
ROUTING TECHNOLOGY

AD0905

metabo®

Metabo & Elektra Beckum, as a leading trading partner to D&M Tools, wish them many happy returns for 25 years of trading. You can be sure of a first class service and sound expertise from D&M staff when discussing our brands. We are looking forward to the Kempton Park 2003 international woodworking exhibition where our new products and many special promotions will be available.

ELEKTRA BECKUM E®

RECORD POWER
SHEFFIELD • ENGLAND

Congratulations to D&M Tools
on their 25th anniversary

D&M Tools are one of our
premier stockists, please
contact them for details on
all our new products
RPMS/R Router Table // PT320 Planer
Thicknesser // BS450 Bandsaw //
401S Bandsaw // 352SB Bandsaw //
Spindle Moulder Tooling Range

Record Power Woodworking Machines & Accessories
Telephone: 0870 770 1777 Email: info@recordpower.co.uk
Fax: 0870 770 1888 <http://www.recordpower.co.uk>

**freud®
pro**

Congratulations to D&M Tools
on 25 years trading within the
woodworking industry. Freud
will continue to support D&M
by supplying quality products.

See Freud at the D&M Kempton
Park Woodworking show.
Stand No. 51





TIMELY TRIBUTE

1



As it's announced that Shrewsbury is to close the doors of its furniture-making course, graduate **Sarah Wells** tells us what student life was like at the renowned college

Main pic: The quiet, medieval town of Shrewsbury has been a hotbed of fine furniture-making and design for the last 30 years

1 Laminated ply and cherry chair, by **Will Mason**

Many of you will have heard of Shrewsbury through the news coverage it received on television two years ago when the town flooded, or maybe more recently when Shrewsbury Town Football Club beat Everton in the FA cup last season. However, there's more to the picturesque town of Shrewsbury than football and flooding.

The town's technical college, once boasting one of the best Furniture Design courses in the country, is to discontinue its HND and degree programmes following a drop in intake and the decision by principal lecturer Hugh Scriven to accept a post at Buckingham Chilterns University College.

The Shrewsbury College of Arts and Technology, or SCAT, has been running furniture courses at its London Road site since the late 1970s. First established by the visionary John Pryce, the college started with the City and Guilds, and went on to establish HND and degree programmes in conjunction with the University of Wolverhampton.

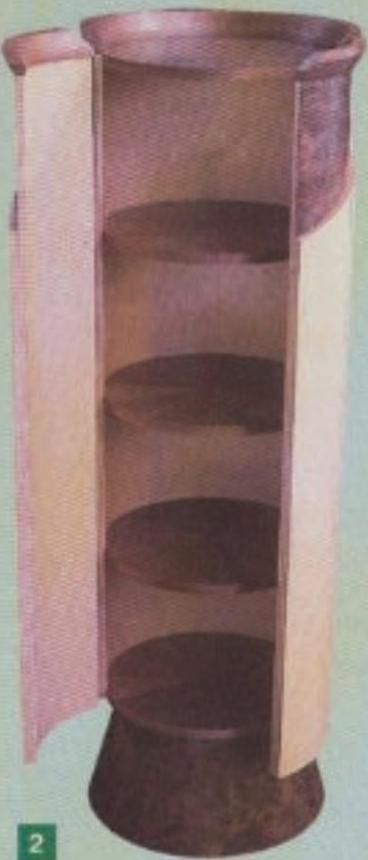
Over the years, the HND course developed from a craft course with a strong design element to a design course with a

strong craft element, benefiting from the experience of lecturers such as Bob Wearing. There was even the option of continuing to do a degree if students achieved a high standard of work. However, what the course really focused on was providing its students with the skills to become self-employed designers and makers.

■ Course structure

In the first weeks of the course, students learnt how to tune their shiny new planes and flatten their benches. They then had to make a set of winding strips and a bench hook. This helped new students find their way around the workshop while getting to know their new colleagues and lecturers.

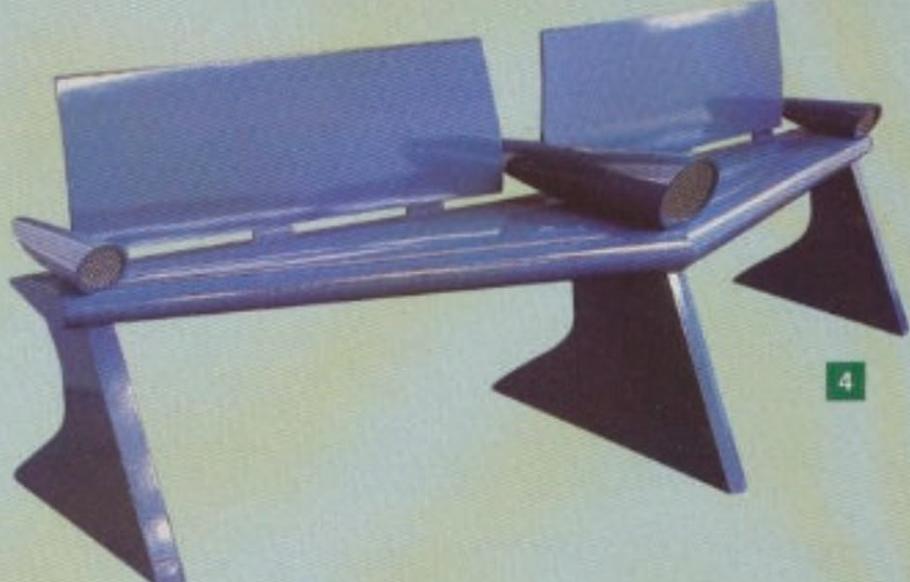
The first year of the course was based around four 'design and make' projects. The briefs for these pieces changed every year, but were programmed to include the use of different construction techniques, demonstrated throughout the course by the lecturer. The main techniques learnt in the first year were the cutting of mortice and tenons and dovetail joints, laminating, woodturning, steam bending and the use of veneers, knockdown fittings and power tools.



2



3



4



5

My first brief when starting the course was to design and make a stool for a sports personality using at least four mortice and tenon joints. These first briefs allowed students to master the use of various hand tools while starting to develop their own design methods and styles.

Once the first year was over and students could cut dovetails without pulling their hair out, they then put these new skills to the test in more challenging projects of the second year. The first semester's projects were to make a chair and a table. These pieces were to be designed for someone such as a writer or actor of the student's choice whom they had researched themselves.

There were no restrictions on what type of construction the students used and they were encouraged to include other materials apart from wood in the design. This is where many people started to incorporate metals and plastics into their work.

When I came to make my chair, the brief was to design a desk chair for an author of your choice. I chose a design journalist, and designed a chair to support the lower back while being comfortable for long periods. I used laminated aeroply to form the seat and

back rest, which was then covered in linoleum. The supporting legs were made from bent stainless steel tubing and given a sand-blasted finish.

In the second semester, more emphasis was placed on professional practices and the designer/client relationship, with students encouraged to obtain a real commission to work on. There was also the opportunity to make an item of furniture of the students choosing, utilising the design and construction skills they had experienced so far. In turn, this helped students identify their future career intentions.

The third year of the course was self-led, so students could focus on their chosen career path and write design briefs. Through project management, they were able to expand their skills in the appropriate areas. The overall emphasis of the year was to become professional and for students to increase their awareness and understanding of the environment in which a designer or craftsman might operate. This normally involved making three to four pieces of furniture in the year, which ultimately had the chance of being exhibited at the New Designers Exhibition in London.

2 Cabinet veneered in walnut and sycamore, by Yohel Ito

3 Turned coat stand with aluminium rod, by Rachel Sandham

4 Bench in painted laminated ply, designed by Will Mason for an aircraft museum

5 Green ash bench, by Chris Nangle. Chris went on to do an MA at the University of Wolverhampton, developing his simple green-wood designs



6



8



7



9

■ Additional skills

During each year, other modules were offered, giving students the additional skills required if they turned professional. In the first year, students learnt technical drawing, photography and AutoCAD, as well as a short course in basic metal work. This included different types of welding, forging and sheet-metal bending. Students also studied function and style in contemporary and historical artefacts known as 'Contextual Studies', which continued through to the second year where essay-writing skills were incorporated.

The second year also saw the introduction of business skills as part of the 'World of Work' project. The project required students to write a business plan with the aim of showing them how to set up a small workshop and the financial difficulties this entails.

During this time, students started to put together a personal portfolio and helped set up local exhibitions of their work at the end of the year. On top of this, they also worked on a batch-production project, introducing them to the concepts of costing, production planning and packaging.

In the final year there was a module giving students the chance to experiment with a specialist aspect of furniture design without having to make the finished article. This could be about testing existing methods or creating a methodology of your own – it wasn't about doing it right, it was about ideas and concepts.

The students' ideas often came from a broad spectrum, including areas such as the building of tree houses, upholstery and routing. I chose to investigate the use of turning to make 'fragmentals'. Fragmentals are objects that have been created from turned items such as bowls and cones, cut in half or into sections and then joined together again in a different way to create new forms. The shapes that can be created are very different from the usual turned forms produced on a lathe.

There was also further opportunity for students to improve and change their personal portfolio before the end-of-year exhibition, and the New Designers Exhibition to be arranged. As with every degree course there was the dreaded dissertation. Life was made easier, though, by the fact students could choose any subject to write about.

6 Blue laminated ply and steel chair, by Sarah Wells

7 Laminated ply stool, by Richard Hathaway

8 Ash table, by Ben Hills. Ben is now working as a designer-maker of sustainable wood furniture

9 Children's play furniture, by Hailie Stammers



11

10

While some wrote about furniture-related subjects, others wrote about things as diverse as the effects of off-road biking on the countryside or even football as a religion!

■ Facilities

The workshop contained all the usual machinery such as rip saws, planers and lathes as well as the main bench area. Each student was assigned their own bench and encouraged to decorate their walls with images and ideas. Students from all years worked in the same building, and there was always a friendly atmosphere with everyone helping each other – especially when there was some steam bending or gluing up to be done.

There was also a photography studio, dark room and various computer suites available within the art school. Furniture students benefited a lot from the college's other facilities in the main building where the engineering, carpentry and joinery, painting and decorating and building courses are held. Although there is a small library at the college, students also had access to the library facilities of the University of Wolverhampton.

■ Exhibitions & competitions

At the end of the second and the third year, exhibitions were held to show the students' achievements to the public. In the second year, students had to arrange a venue for their exhibition. This was often held at a local National Trust house called Attingham Park.

In the third year, students had to arrange an exhibition held at the college, and also a stand at the New Designers Exhibition in London. New Designers is a chance to sell yourself and your work to the business community and public alike. Students could sell pieces there and sometimes arranged commissions, but above all it was a good opportunity to get your name and work known.

During the course, students were always encouraged to enter competitions, whether it be awards in magazines, shows or commissions for public spaces. This year, one of our students reached the final five in the Cabinet Makers Young Designer Award, and as a result attracted a lot of interest in her storage system from retailers. Last year, the local council came to the college with a competition to design new public seating for the town square, providing the winner with a £3000 award to develop the prototypes.

Above left: Sarah Wells working on her latest piece in fumed oak and masur birch

Above right: Martin Haigh marks out tenon strips for adjustable shelves

10 Low oak table, by Paul Morris

11 Low chair in leather, steel and ash, by Jon Paeler



12



13



14



PHOTOGRAPH BY A. BROWN



15

Above left: **Mark Woodward** makes an MDF template for one of his pieces

Above right: **Rachel Sandham** measures up for her next piece

12 A pair of cabinets by **Sarah Wells**

13 Steam-bent ash coat stand, by **Robert Jones**

14 Chaise upholstered in sparkling PVC by **Halle Stammers**

15 'Wedge' by **Sarah Wells**

■ Lecturers

The course had one main lecturer, Hugh Schiven. Having been at the college for 14 years, he is now sadly leaving to take on the role of Course Leader of the BA (Hons) Furniture & Design Craftsmanship course at Buckingham Chilterns University College. He has also taught in America and Tasmania. A designer-maker himself for many years, Hugh has even shared a workshop with Ashley Cartwright and still works on and exhibits his Memphis-inspired pieces.

There were also three part-time lecturers, all of whom came from different backgrounds. Clare Keil is a commercial designer who specialised in working with first year students to improve their drawing and design development skills. Jeff Salter is a ceramist who worked mainly with second year students on their 'World of Work' module teaching business skills and sharing his own experiences of the business world and corporate commissions. Angela Corbin is a lecturer and MA student from University of Wolverhampton who taught the 'Concepts of Style and Function' module to first and second year students.

All these lecturers worked together

through group meetings and tutorials to monitor and help students with any problems arising. There were also various other lecturers from the art school and the University of Wolverhampton who visited. The diversity of their backgrounds helped give students a broader view of design and the industry in general.

■ Students

The students range from architects and engineers through to the art student straight from college or the mature student who has undertaken a bit of DIY! If, like me, your only experience of woodwork was making a CD rack at school, you'll be surprised how quickly it's possible to pick up the basic skills and start to produce usable pieces of furniture that you can be proud of.

Students from SCAT normally went on to start work as designers and makers, either on their own or with others. Some have headed into the design industry working for companies such as Tesco's and Burbages, while others have become teachers. The one thing they all have in common, though, is the enjoyment they had studying at Shrewsbury.

Simply the best...



Lie Nielsen Planes

These superb hand finished American made planes have won countless accolades from discerning craftsmen. Many of the planes are cast from Manganese Bronze, and several are recreations of long discontinued models. The planes are machined and finished to the most fastidious of standards. Please request the full colour booklet.



Inca Jig System

Above are just a small selection of the joints which can be made using this innovative positioning system. The jig utilises a series of interlocking saw-tooth racks to precisely and instantly position the workpiece, thus transforming the accuracy of a router table, table saw, drill press etc. Informative colour leaflets are available.



Urko Industrial Clamps

A heavy duty versatile clamping system with rugged cast iron jaws sliding on a sturdy serrated steel bar. Quick release non-slip operation. Capacities from 8" - 48". Very competitive prices due to direct import. Please request colour leaflet.

These products and many more are featured in our 288 page "Tools 2002" catalogue. Also available is our catalogue of the superior quality American made Viper Router Bits. Please send or phone for your free copies. All items are available by mail order - most card payments now accepted.



Bridge House, 69 Station Road,
Cuttley, Herts. EN6 4TG
Tel: (01707) 873434

THE NORTH OF ENGLAND Woodworking Show

The Flower Hall
Gr. Yorkshire Showground
Harrogate



21st and 22nd Nov 2003: 10am - 5pm
23rd Nov 2003: 10am - 4pm

The Flower Hall is behind Sainsbury's on the Wetherby Road (A661). Buses 78 and 79 run from Harrogate bus & train stations to Sainsbury's. Coaches from car parks and Sainsbury's to the Flower Hall

A BIGGER SHOW FOR 2003:

- MORE EXHIBITORS • MORE DEMONSTRATORS
- MORE WORKSHOPS, INCLUDING A DEDICATED 'HANDS ON' WORKSHOP

ADMISSION TO INCLUDE:

- FREE SHOWGUIDE • FREE PARKING
- FREE PRIZE DRAW
- FREE ADMISSION FOR CHILDREN UNDER 12

ADMISSION PRICES AT DOOR:

Adults:	£7.50	Concessions:	£6.50
Accompanied Children Under 12:	FREE		

FAST TRACK ADMISSION:

PRE-BOOK YOUR TICKETS AND SAVE £££'S

Name:
Address:
Post Code:

Prices held for
2003

No of tickets £7.50 @ £6.50 No of tickets £8.50 @ £5.50

Cheque / P.O. to SK Promotions Ltd. for £.....
(Please enclose a SAE)

SK PROMOTIONS LTD: PO Box 127, Weston-super-Mare, BS23 4XT
For show details either visit www.skpromotions.co.uk or phone 01934 420385
Please do not send any further information on woodworking shows organised by SK Promotions

SUBSCRIPTION ORDER FORM

YES!

I want to save £££s

ONE YEAR • 12 ISSUES

Please tick as required:

- UK £35.00
- Overseas £43.75
- US \$70.00

I WOULD LIKE TO

- Subscribe
- Extend my subscription

TWO YEARS • 24 ISSUES

Please tick as required:

- UK £62.25
- Overseas £78.00
- US \$124.75

BEST BUY!

PLEASE QUOTE ORDER CODE FCD

Name _____

Address _____

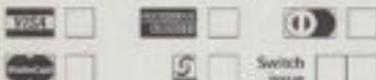
Postcode _____

Tel _____

Email _____

Please start my subscription with the month/issue _____ (please complete)

- I wish to pay by Direct Debit every 6 months (please complete separate form below) UK ONLY
- I wish to pay by Direct Debit every 12 months (please complete separate form below) UK ONLY
- I enclose a cheque made payable to GMC Publications Ltd.
- Please debit my credit card (please indicate)



Switch issue

TO THE VALUE OF

D/S/E

Expiry Date

Account No. _____

Signature _____ Date _____

Guild of Master Craftsmen Publications will ensure that you are kept up to date on other products which will be of interest to you. If you would prefer not to be informed of future offers, please tick this box

Instruction to your Bank or Building Society to pay by Direct Debit



Please fill in the whole form using a ball point pen and send it to:
GMC Publications Ltd, FREEPOST,
Lewes, East Sussex BN7 1BR



Originator's Identification Number

6 5 8 8 8 1

Reference Number

Instruction to your bank or building society:
Please pay GMC Publications Ltd Direct Debit from the account detailed in this instruction subject to the safeguards assured by the Direct Debit guarantee. I understand that this instruction may remain with GMC Publications Ltd and, if so, details will be passed electronically to my Bank/Building Society.

Signature

Date

Banks and Building Societies may not accept Direct Debit instructions for some types of account.

The Direct Debit Guarantee

This guarantee should be detached and retained by the Payee.



- The guarantee is offered by all Banks and Building Societies that take part in the Direct Debit Scheme. The efficiency and security of the Scheme is monitored and protected by your own Bank or Building Society.
- If the amounts to be paid or the payment dates change GMC Publications Ltd will notify you 14 working days in advance of your account being debited or as otherwise agreed.
- If an error is made by GMC Publications Ltd or your Bank or Building Society, you are guaranteed a full and immediate refund from your branch of the amount paid.
- You can cancel a Direct Debit at any time by writing to your Bank or Building Society. Please also send a copy of your letter to us.

12 issues

for just

£35.00

24 issues
for only

BEST BUY!

£62.25!

by phone
01273 488005

by fax
01273 402866

on the web
www.gmcmags.com

by post
**complete and return
the form to:**

**GMC Publications Ltd,
FREEPOST, Lewes,
East Sussex BN7 1BR
United Kingdom**

**IT'S SO EASY
TO SUBSCRIBE**

subscribe today • call 01273 488005

furniture & cabinet MAKING

SAVE up to 20%

WHEN YOU
SUBSCRIBE
TODAY

4 good
reasons to
subscribe

- Save money
- Delivered direct to your door
- Never miss an issue
- Money back guarantee



subscribe today • call 01273 488005

Final shaping of the legs using hand tools such as a compass plane, drawknife and spokeshaves

Richard Jones talks us through his commission to make a pair of bedside cabinets in the style of an earlier exhibition set of drawers



PHOTOGRAPH BY THE AUTHOR

Walnut whim



A handsome couple of cabinets

The pair of cabinets discussed here were commissioned by a client who had seen a similar exhibition item. The pair are made of solid timber with a walnut carcass, hard maple drawer parts, zebrano drawer fronts and plywood for the cabinet back and drawer bottoms.

■ DESIGN

The motif that drove the design of the exhibition piece was a variation of the cabriole leg with its sweeping curves. I'd used this leg form before in tables and chairs, but never in a cabinet. The long gentle sweep in the lower section of the leg is complemented by similar sweeps throughout. The smaller radiused curve above the leg shoulder is mirrored by the choice of drawer pull – a simple U-shaped item from Häfele.

With the general shape and style already in place for the new pieces, it was just a matter of adapting all the elements to suit the changes in proportion and the proposed usage. The original leg style was modified to suit the smaller proportions.

■ ROD

Rods are tools upon which critical dimensions, joinery, profiles and shapes are precisely defined and fixed as an unvarying reference. If you need a specific length, put the rod and the part together, then transfer the length to the part. Likewise, if you need a specific profile or shape, transfer it from your rod to your part.

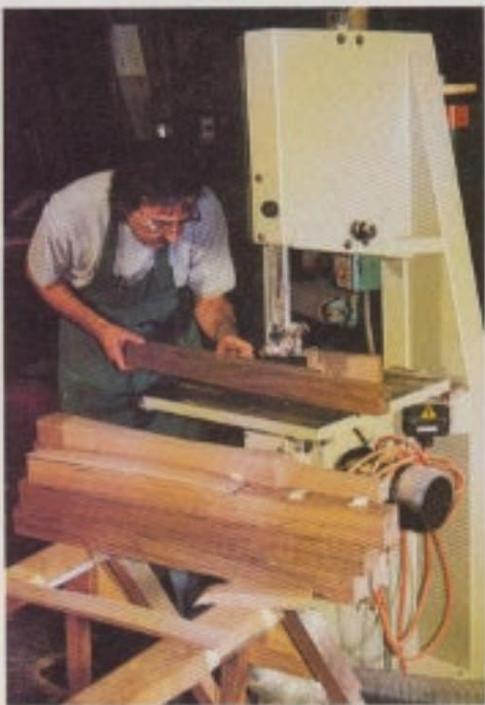
For this type of job, where several parts are the same size and/or shape, I make a rod out of 9mm (3/8in) MDF as early as possible during the



Richard Jones trained as a cabinetmaker and spent nine years teaching at Heriot Watt University in Edinburgh, before moving and setting up his business in the USA. He is now returning to Britain to take up teaching once again at Isle College in Cambridgeshire



Constructing the leg shaping jig with rod



Bandsawing waste from leg



Rubbing edge joint together prior to the application of sash cramps with Scotch glue



Using template to create offset between the panel and the leg

construction. With this tool, you can make and correct measuring errors and experiment with shapes and profiles. It's much better and easier to make and correct your mistakes here than on your expensive timber. Supplemental jigs and patterns are often made with the help of the original rod, or rods.

It's a good idea to dimension an extra leg or two for the set. Later working of the parts, particularly pattern cutting with a spindle moulder or router, can sometimes result in irreparable speech. Having one or two spares can save a lot of frustration, and if you don't need them they can usually be recycled and used elsewhere.

■ JOINERY

All the materials for the main carcasses are selected and machined leaving the drawer timber stacked rough-cut for later. After breaking out the materials, the job of selecting boards and edge-gluing them for the four cabinet sides and the top and bottom is next.

Leave the pieces that form these panels a bit thick. For instance, if the sides eventually finish at 30mm (1 1/8in), leave them at over 32mm (1 1/4in). Prepare the edges by straightening them on a surface planer and hand planing, if required.

Biscuits or tongues can be used to help with alignment, but if you use Scotch glue, you can do a basic rub that can be gently held with sash cramps

once the rubbed glue has taken a grip. The cramps should be left on overnight with this type of glue, and longer doesn't hurt.

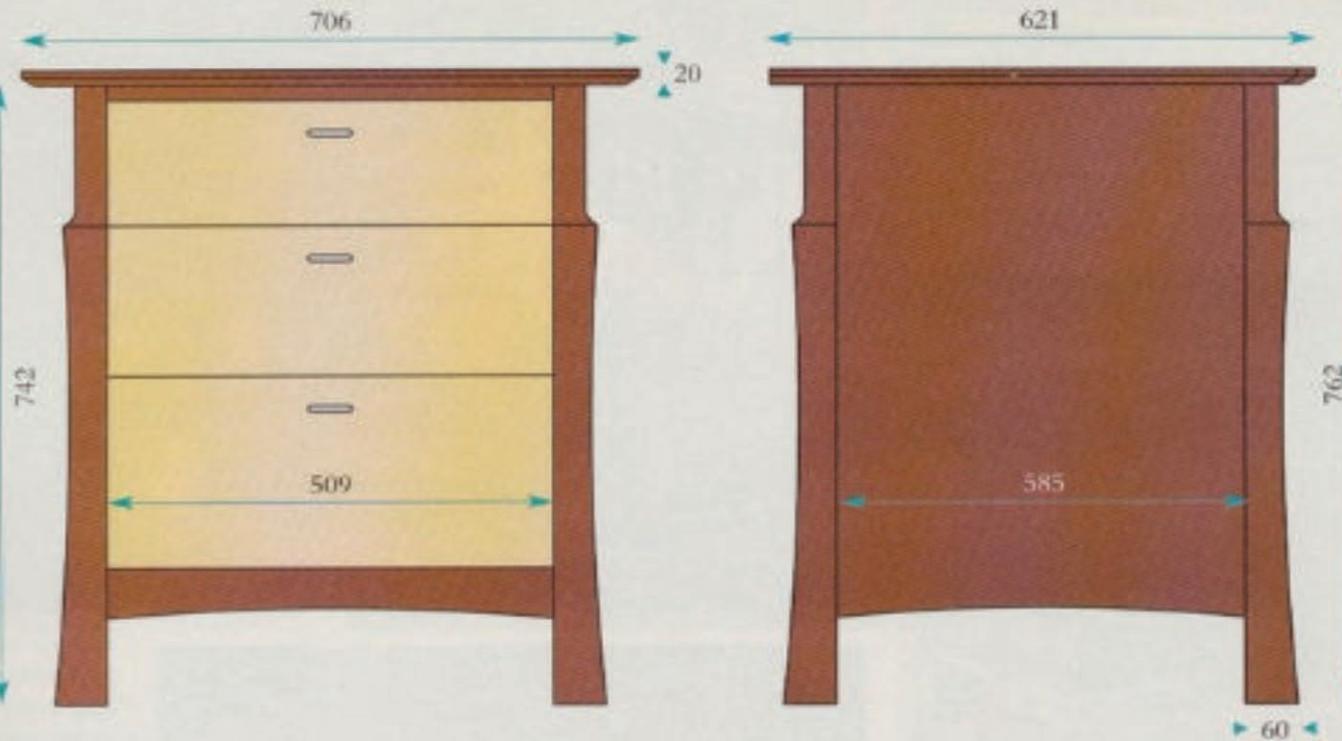
An additional $\frac{1}{16}$ th of a turn, five to 10 minutes after cramping the edge joints with Scotch glue, often helps compensate for any contraction in the joints due to moisture evaporation after the glue's initial grab. I also used proprietary liquid hide glue to give me a longer open time during tricky, time-consuming cabinet assemblies.

■ JIGS

I shape legs like these by making an L-shaped cradle jig. The squared leg blank is attached to the jig and shaped on a spindle moulder or router fitted with a pattern-cutting bit. First, place the inside corner of a leg in the jig. Then screw through the offset holes at the end of the pattern into the 30mm (1 1/8in) of leg overlength at either end.

Trace round the jig to mark the leg, and transfer the marks for the finished leg length. Unscrew and remove the leg, then repeat for the other legs. Additionally, transfer the marks indicating the bottom rail width and its mortice length for the front legs. With this procedure complete, it's time to cut and square the side panels to their final length and width. The same should be done with the bottom panel.

Next, the cabinet bottom should be dry-biscued



Shaping leg using L-shaped pattern with bearing-guide planing cutter on spindle moulder – the guards have been removed for clarity

Right: Legs and side panel cramped together using biscuits and liquid hide glue



to the inside face of the side panels. The top face of the bottom matches the top edge of the front rail, and is eventually tenoned into the front leg. This height can be picked up directly from either the leg or the rod.

Fold the top face of the bottom panel against the inside face of the side panel. With both front edges perfectly aligned, clamp them together. Measure and mark to accommodate as many No.20 biscuits as will fit across the width, without them overlapping.

Resting on the bench, dry-assemble the legs, side panels and cabinet bottom with the front face of the cabinet. Check for square with a try square and put one of the front bottom rails on top of the back face of the legs.

Mark where the inside face of the legs intersects this rail, and from these points measure a 24mm-($\frac{1}{2}$ in) long tenon at either end. Cut the rails to length, and then mark the thickness of the 8mm ($\frac{1}{4}$ in) tenon with a mortice gauge.

Disassemble the cabinet and use the same gauge setting to mark the leg mortise. Cut the mortises about 22mm ($\frac{1}{2}$ in) deep so that the tenons don't

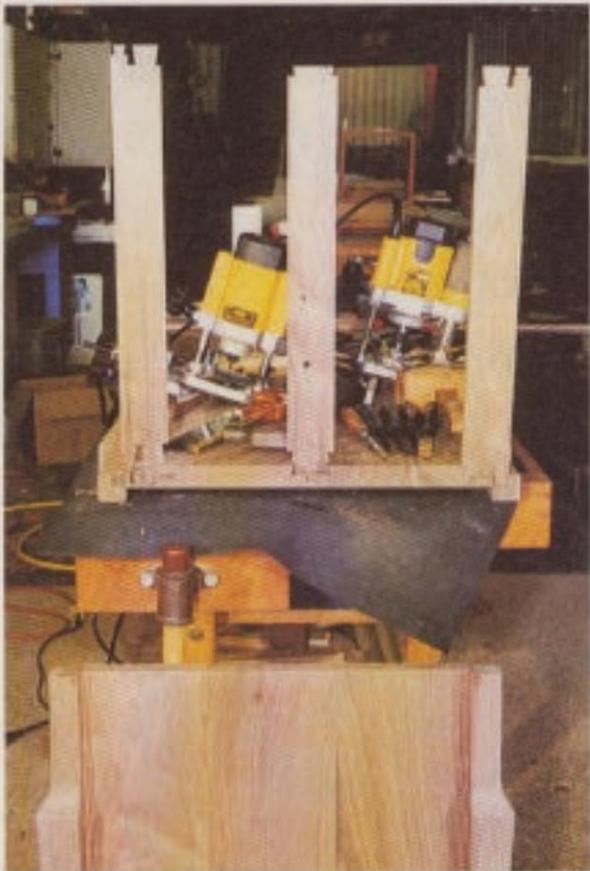
bottom out and there is a small space for glue. This allows for expansion and contraction of the leg.

Cut the rail tenons and reassemble the cabinet dry, with the bottom front rails in place. Mark two or three biscuit centres where the back face of the front rail joins the bottom panel. Just before you disassemble this dry run and cut the biscuit slots is a good time to offer up at least one top rail to the cabinet bottom and ascertain the length between the top rail shoulders.

The front and back top rail dogleg around where the side panel and leg meet, but the middle rail only needs shoulders that span the width between the cabinet side panels. It's not necessary to complete marking of the carcass dovetails on these rails at this point, but you will have at least fixed the distance between the shoulders.

■ SHAPING PARTS

Bandsaw the waste from the legs about 1-3mm (approximately $\frac{1}{8}$ in) short of the line. Cut one face off and re-attach the offcuts with masking tape. Then cut the second face. Screw each leg back into the L-shaped pattern jig and use a spindle moulder and



bearing-mounted pattern-planing cutter, or a router and pattern-cutting bit, to follow the profile.

Extra screws may be inserted to secure the leg in the jig, but screw only into the biscuit face – the holes will be hidden later. Clean up all the machine marks and do any rounding over with hand tools in preparation for gluing the legs to the side panels.

A curve has to be cut at the bottom of the side panels and the underside of the front rails. A pattern of MDF for use with a router and pattern-cutting bit speeds the job up. Cut the curve on the bandsaw and smooth with hand tools.

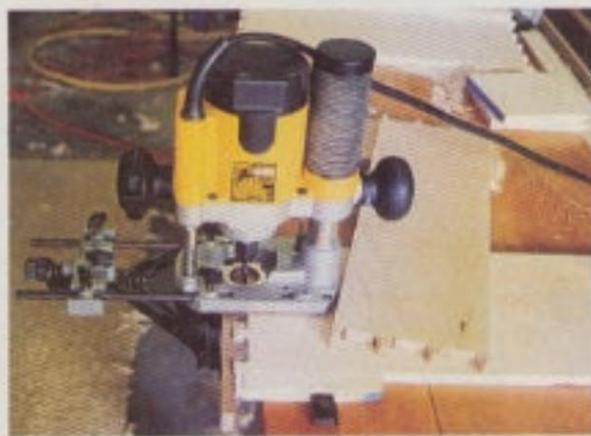
Clamp the pattern to the bottom edge of the panel – the curve for the bottom rail can be screwed into the back face of the rail. Having traced around it, unclamp and bandsaw close to the line. Re-attach the pattern to the side or rail and trim it with the router and pattern-cutting bit.

■ COMPLETING THE CARCASS

The three top rails that complete the main carcass should be cut to length and carcass dovetails marked and cut – not forgetting to run a groove for the back panel in the back rail. I cleaned out most of the waste from the sockets with a router, a small cutter and side fence.

Bore the screw holes through the dovetails that will be required at the glue-up, and those through the rails for holding down the top. A dry-assembly of all the parts can be done at this stage, with the exception of the bottom front rail, which is at this point glued to the bottom shelf.

Gluing the rail at this time ensures that the rail overhangs the right amount at both ends. Liquid hide



Above: Basic cabinets glued together. One cabinet still has in place the clamps and softening blocks of MDF

Left: Routing sockets between pins on drawer backs

Far left: Top rail carcass dovetails cut, and test assembly. Resting on the cabinet side are the tools used to cut the dovetails. Routers, side fences and straight bits were used to cut most of the waste out of the dovetail sockets and to define the shoulder line

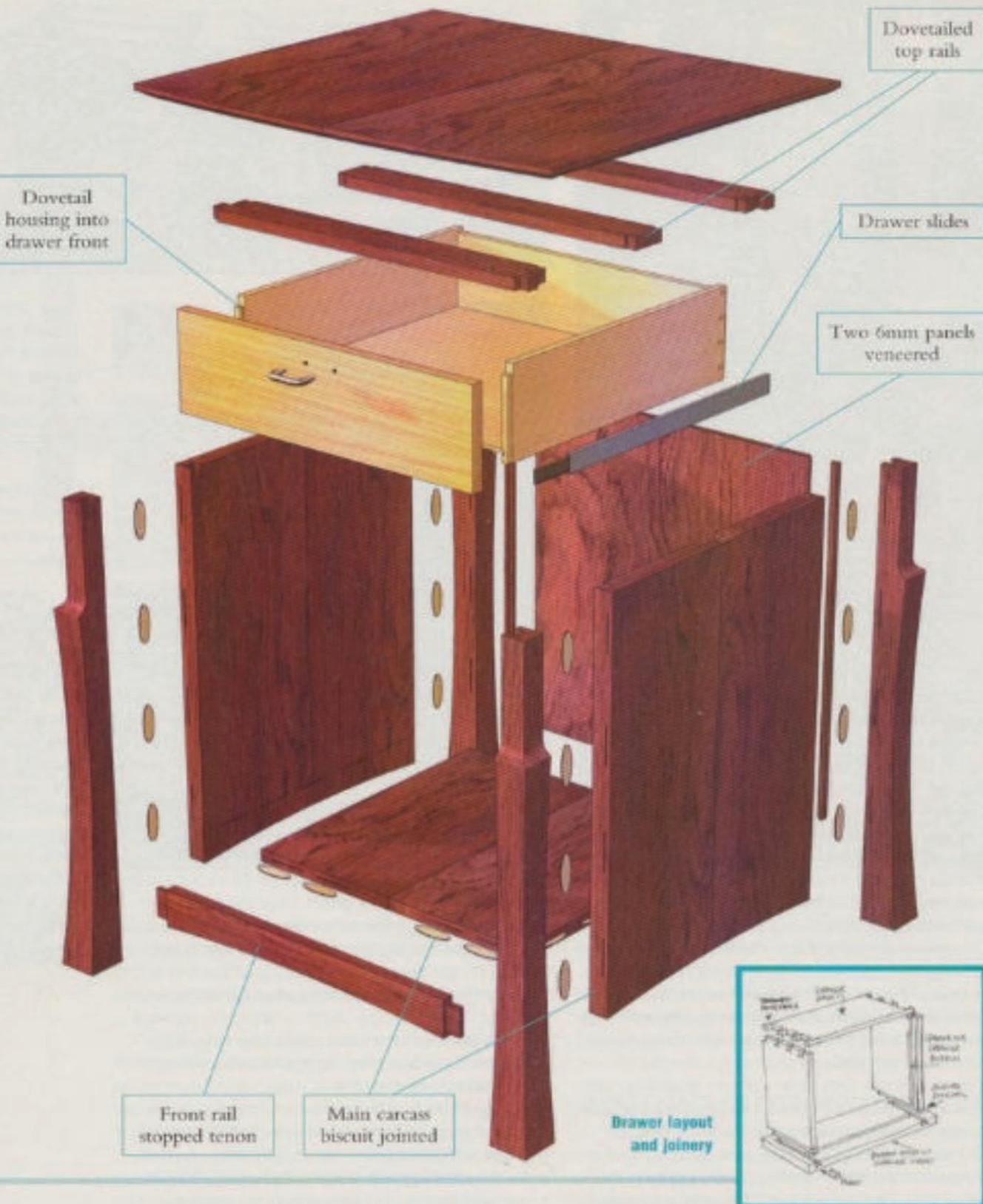
glue is convenient because it has a long open time, giving you the chance to fiddle. Once the rail is located correctly and cramped in place, the cabinet can be disassembled again. This prevents inadvertently gluing together parts if the glue oozes where it shouldn't.

Provide channels to hold a back panel by machining a piece of timber to go into the reveal or 'rebate' at the junction between the side panel and the back leg. Cut it 20mm x 13mm+ (xin x xin+), and rout a rebate in it for the panel. Glue this machined part in place with some pins driven through the rebate into the leg. Clean up the internal parts and polish lacquer on all the hidden parts.

Assemble and glue the cabinets together in two stages. First, glue in the bottom shelf using a couple of top rails to hold the sides apart, checking for square and winding. Next, glue and screw the top rails in place, one at a time.

Prepare and fit a cabinet back consisting of two pieces of 6mm (xin) walnut-veneered MDF, glued together to make a panel 12mm (xin) thick. A rebate is then worked on three edges. The panel slides in from the bottom and is locked in place with two screws driven through it into the back edge of the cabinet bottom.

All that remains of the carcass construction is to complete and attach the top. Mark and cut the curve if you're incorporating one. You can use a router and a bevel cutter with a bearing to start the shape. Attach the top with a 10-12mm (3/8-in) overhang – in effect, beyond the foot of the leg – at the back. This means the back edge of the top will touch the wall, but the feet will miss the baseboard at the bottom.



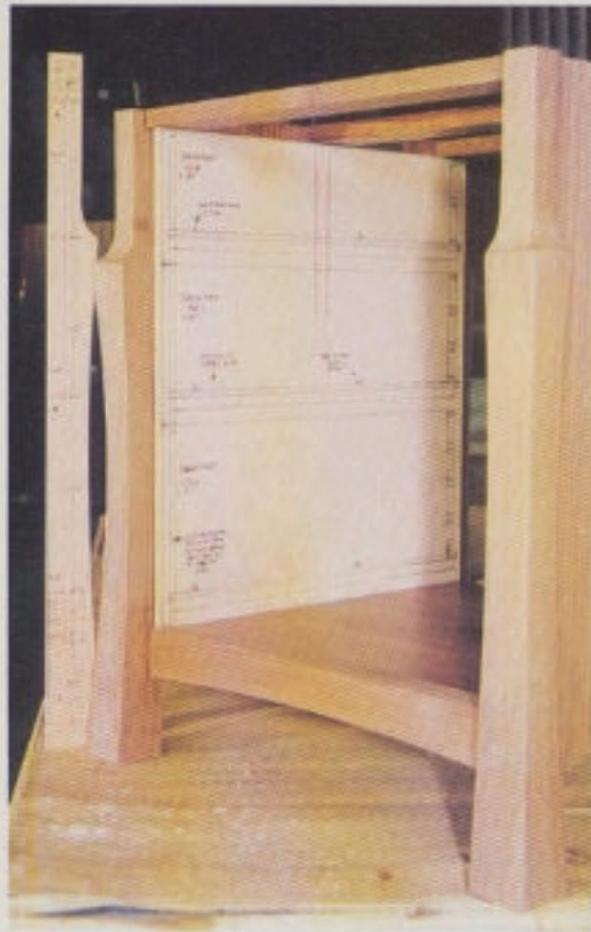
DRAWER WORK

Once all the parts are dimensioned, they can be used to position the drawers and slides inside the cabinet. This is done by making a rod or pattern of 12mm (½in) MDF or birch ply. It conforms exactly to the interior side elevation of the cabinet side.

Errors in layout are easily fixed with a rubber and some re-measuring and drawing. If your cabinet is solid timber, you should allow for expansion and

contraction. You can provide for this by joining two rear screw holes in the slide to form a slot.

Start by positioning and marking all the drawer fronts on the rod's long front edge. Work back into the cabinet, laying out and drawing in the position of the drawer sides and the drawer-bottom grooves. Then, position the bottom drawer slide on the rod so that the top of the slide matches the position of the groove where the underside of the drawer bottom fits.



Drawer layout
using a rod or
pattern



The original exhibition
piece that inspired
the cabinets

■ FINISHING

Walnut can be a little cold-looking when polished, but one way it can be warmed is with a water-based aniline dye. Walnut is also an open-grained timber, so sanding much beyond 180 grit seems unnecessary because the finer grits are smaller than the open pores:

Prior to dyeing with water-based dyes, the grain should be raised with a cloth that has been fairly well dampened with warm water. After drying, lightly sand down the raised fuzz with 220-grit paper. Apply the dye with either a bristle brush or a cloth to force the dye into the open pores and wipe off after a few minutes for an even colour.

It's a neat touch to fill the grain of the cabinet top after dyeing. One good choice is a proprietary grain filler. Use the grain filler after brushing on a thinned-out wash coat of your film finish of choice – the wash coat seals the dye and prevents grain filler further tinting the timber. After the filler dries thoroughly, apply the rest of the polish coats.

The zebrawood drawer fronts can be left uncoloured – it's a naturally striking and warm-looking timber when polished. Different people prefer different finishes, and a wide range of polishes would be suitable. I used two types.

Spray pre-catalysed lacquer on all the internal drawer parts and both faces of the back panel. This includes spraying the drawer parts, with the exception of the front face of the zebrawood drawer fronts. The face was masked off prior to spray polishing.

The rest of the cabinet and drawer fronts were polished with alkyd varnish. It was brushed onto the drawer fronts to save complex masking off, and sprayed on all the other cabinet parts after previously polished parts had been masked off.

■ FINALLY

After the polishing, which entails breaking down the cabinet into its smallest constituents, it's re-assembled. The last job is to apply self-stick felt bumper pads to the back side of the drawer front, one at each end, to soften the final closing action of the slides and prevent any abrasion damage.

The slide should be perpendicular to the rod's front edge. Mark the centre of the two screw holes, one front and one back.

There is no slip. The weight of the drawer is carried on the bottom, which sits on the Häfele slides and by the channel worked in the drawer sides. Drawer construction is fairly conventional. Hand-cut dovetails are worked at the back, and after using a coping saw to remove the bulk of the waste between the tails, you can use a router to both clear out waste and define the shoulder line.

This router trick is even more useful for clearing out waste between the pins where the shoulder line tends to be relatively long. A little work with a chisel completes the job in both cases.

After the fronts are glued on, the dovetail housing that runs out on the bottom edge of the drawer front can be plugged using a dovetail-shaped piece of timber with a matching grain. Technically this is unnecessary, but it's a neat touch. Flush off the top edges of the drawer box with a hand plane.

Fit the drawer bottoms and insert two screws up through them into the underside of the back. The drawer back has a hole cut to capture the hook at the end of the slide. This can be drilled, but a plunge router, 3mm bit and side fence can also be used.

When using the latter method, I shim out the drawer bottom with a piece of 18mm (3/4in) MDF to create a flat reference surface for the router side fence. Holes for the pulls can be centred and drilled with an MDF or plywood boring jig that locates positively to the drawer fronts.

ELEKTRA BECKUM



metabo germany

10" Planer & Thicknesser



The HC 260M is well established as a robust and reliable machine.

- Often copied, never bettered.
- 260mm by 150mm capacity, with rubber outfeed roller for a smooth finish.
- 2.2kva motor as standard, other options available.
- Range of accessories and attachments available.
- Available in 240v.
- £599.00 excl. VAT
£703.83 incl. VAT

ENGINEERED IN GERMANY

For the latest information on the

ELEKTRA BECKUM



product range please call:

023 8073 2000

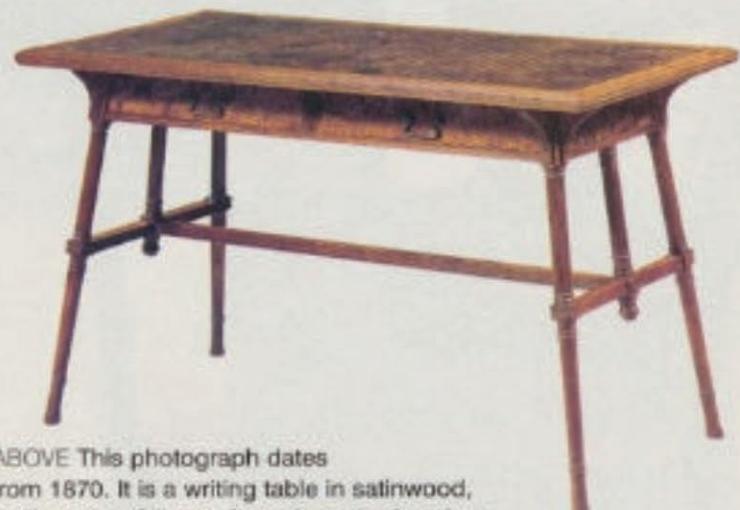
Fax **023 8074 7500** www.elektrabeckum.co.uk



Medieval muse

The period in the late 19th century known as English Aesthetic had its origins in the 'Reformers' movement, which started with AW Pugin. The Aesthetic Movement disliked the classical designs of the 18th century and looked for their inspiration to an interpretation of the Medieval English; see F&C 33.

ABOVE My first photograph shows a carved oak overmantel mirror, circa 1865. The crenellated top arches forward in medieval style. The arched canopy was a feature of furniture in pre-Tudor England. The use of embossed gilded leather, as seen in the overarching panels here, is another throwback to natural materials and handcraft techniques – although I doubt that many of the English Yeomanry had gilded leather panels in their houses. The overmantel was originally conceived as a mirror in a decorative surround to be placed over the mantelpiece. However, they were used in entrance halls and corridors as shelves, which had the added benefit of a mirror back.



ABOVE This photograph dates from 1870. It is a writing table in satinwood, attributed to Gillows. Apart from the fact that a similar table is recorded in the Gillows Estimate Sketchbooks, numbered 10753, the handles and use of screws to hold the drawer linings are typical of Gillows. The style is faintly medieval with trestle-type splayed legs, but retains the fluting and reeding of classical furniture. The result, as one would expect from Gillows, is a very elegant table.

Michael Huntley
delves into the history
of the English
Aesthetic and reveals
how classical
elegance made way
for Gothic severity

ALL PHOTOGRAPH COURTESY OF
BUTTERIS UNLESS OTHERWISE STATED

RIGHT Here we have an ebonised hanging cabinet, dating from about 1870, in the manner of EW Godwin. Godwin was an exponent of the 'Japanese' style. Now, this cabinet may not look very Japanese, but the use of black ebonising polish to produce an appearance similar to that of black lacquer was symptomatic of the interest in all things Japanese. The centre roundels on the doors are in the form of stylised chrysanthemums – a very important design element in Japanese art. The decoration is incised and gilded, with the cabinet itself measuring 610mm (24in) in width.

BELLOW RIGHT Two ebonised chairs from about the same date are shown next. These chairs are not radical in design. The smaller chair is based rather loosely on a Napoleon III design, and the other on a 'Glastonbury' chair, see F&C 65. Again, they have incised and gilded decoration. The larger chair has burr thuja panels let into the uprights. They are in the manner of the firm, Lamb of Manchester. The designer of these chairs would not really be called a Reformer as the shapes are little changed from earlier designs, and the only concession to the ideology is the ebonising to give them a faintly oriental look. Lamb's was a prestigious firm, but they remained firmly at the conservative end of the market, eschewing really radical design.



LEFT The next chair is much more unusual. The maker is unknown, but he certainly experimented with design. It dates from about 1875. The designer uses the extended front leg on a rakish angle to support the back. This is a topsy-turvy idea as far as chairs are concerned, although he was probably familiar with metamorphic library chairs. The padded back is reminiscent of a prie-dieu chair. The scrolls, flutes and zigzags are all typical of the aesthetic designers' struggle to find a new and satisfying form of decoration. In fact, no such new decorative ethos emerged until Art Deco. Art Nouveau, as we shall see in the following article, was based on other, albeit naturalistic, designs.

RIGHT A much more familiar item of aesthetic furniture is shown here. This is a walnut side-cabinet in the manner of Bruce James Talbert by Gillow & Co, circa 1875. Talbert provided an alternative to the High Victorian Gothic with his designs that were more accessible to the middle class late-Victorian householder. Although the sideboard is stamped 'Gillows & Co', and was therefore at a premium, this style was seen again and again among vernacular house contents. Although used as a sideboard, the intention was for it to be an item of display furniture in the drawing room, not the dining room.

BELOW We now move to something much more radical, almost presaging Art Nouveau. A Macassar ebony and ebonised centre table, circa 1875, is shown here. The use of the Macassar ebony is unusual, but this timber became very popular in the Art Nouveau and Art Deco years. The elongated, brass cap castors are similar to mounts found on Japanese furniture and other articles. The gentle, organic splay of the legs is quite different to the medieval-based legs on other aesthetic centre tables. This has the air of EW Godwin about it.



BELOW RIGHT This mildly Anglo-Japanese piece is an ebonised, painted and satin-birch side-cabinet, circa 1880. The basic form derives from an Elizabethan sideboard – shelves above, central drawers, cupboards and open spaces below. The painted panels are used in the same way that pietra-dura panels were used in the 17th century. The gallery is also a mid-17th-century touch.

So really, the only new design features are the straight line, incised and gilded decoration, and the ebonising in the Japanese style. Of course, ebonising had been used 180 years earlier in a previous age of European fascination with the Orient. Straight lines have always been used as inlay, so perhaps this is an example of how even when Reformers try to come up with new and different designs, all they end up doing is repeating the past.





PHOTOGRAPH BY MICHAEL HARTLEY

ABOVE AND RIGHT Before we leave the Reformers, I would like to mention Castell Coch, near Cardiff. This remarkable building was furnished by William Burges, circa 1875, and is well worth a visit. The cabinet and bed frame shown in these photographs are pure fantasy, medieval Gothic. Although Burges and the other Reformers had intended to get away from the mass-produced, classically derived furniture, they often ended up creating extremely heavy designs, both visually and literally. It was hardly surprising, then, that there was an opposite stream of new design that took the name of Art Nouveau.

Events within the Reformer's Movement

● PROGRESSIVE DESIGN – REFORMERS IN THE EARLY PERIOD:

1835 AW Pugin, 1812-1852, son of Augustus Charles Pugin who also published a book, published *Gothic Furniture*, based upon late medieval originals. AW Pugin was the designer in charge of the interior of the Palace of Westminster – now the Houses of Parliament

AW Pugin hated 'sham' – he liked revealed construction. Detail should have a meaning and serve a purpose

Simple furniture, the design of which originated with AW Pugin, was produced over a long period between about 1840-1870

1851 AW Pugin's organisation of the Medieval Court in the exhibition of 1851 produced great acclaim. Sadly, he died shortly afterwards

1853 Ruskin's *Stones of Venice* published. The chapter on 'The Nature of Gothic' became an 'almost irresistible force' among designers in the 1860s

1857 Gothic Revival painted cabinets began to be produced. These are an important innovation in Gothic Revival Furniture. As you can see, they can be rather overbearing!

● HIGH VICTORIAN PROGRESSIVE DESIGN:

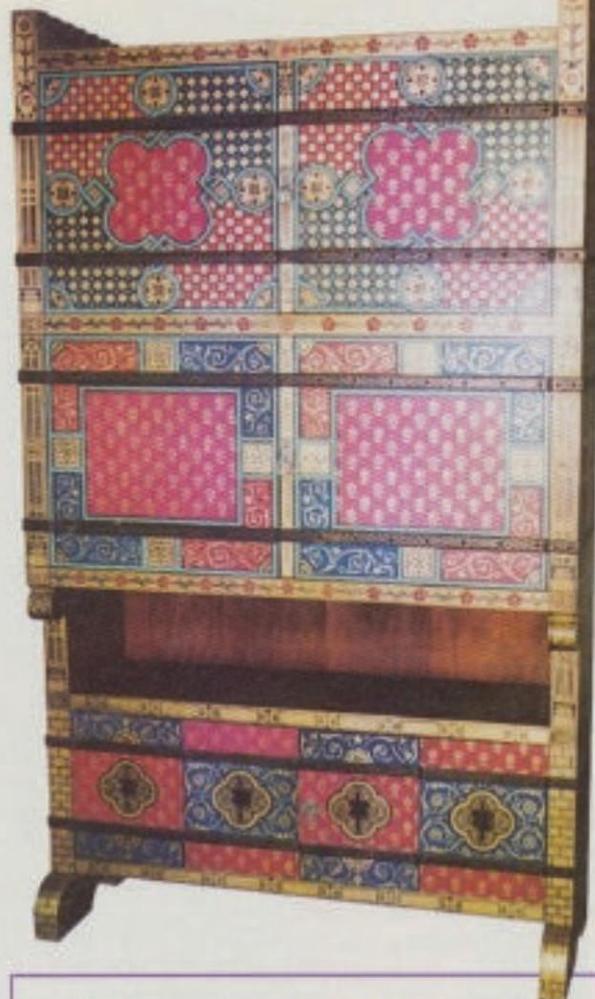
1861 William Morris's firm founded

Webb, Seddon, Burges, Shaw and other makers worked for Morris. Their furniture began to be shown publicly after 1862. It was no longer Tudor Gothic that they turned to for inspiration, but the sterner 13th-century Gothic

JP Seddon introduced diagonal panelling, which was adopted later by Bruce Talbert, Richard Charles and CL Eastlake

1862 The Reformers' Gothic Furniture at the 'London International Exhibition' encouraged inflated ideas and overstatements of style among those who did not fully understand the philosophy and history behind the movement. In the last years of the century, Charles Voysey was to deplore the influence of the big exhibitions

1882 The founding of the Century Guild marked the formal beginning of the Arts & Crafts Movement



William Morris and Company

"William Morris revolutionised the public taste in domestic art" – Morris's obituary in *The Art Journal*, 1896

Morris's philosophy was based on that of Ruskin: "What business have we with Art at all unless all can share it?"

Furniture associated with Morris was soundly constructed in conscious revolt 'against the shoddy, everyday products of commerce.' This itself was a mark of reform in the 1860s, but striking originality was not the distinguishing feature

Some of Morris & Company's best cheap furniture was derived from simple specimens that had been found in the provinces

In 1860 Ford Maddox Brown introduced a surface finish of green stain, which was applied to cheap bedroom furniture. This trademark green stain is often applied in an attempt to fool the observer into thinking that an item was made by Morris & Co

Sales

For news of sales, contact Sotheby's Olympia,
Hammersmith Road, London W1X 8UX.
Tel: 020 7293 6000, or visit: www.sothbys.com

NEW EUROPEAN TOOLING SUPPLIER TOOLING PRICES DRAMATICALLY REDUCED

Southern
Woodwork
Machinery Company Ltd.

supplier of quality european products

Our range of Workshop machines include:

Dust Extractors
from £202.54
Airfox

Spindle Moulders
from £578.96
SF401

BandSaws
from £359.33
ESY H320

Airfox



Planer
Thicknessers
from £560.67
310STS



Table/Panel Saws
from £440.18
OP201

Radial Arm Saws
from £1,228.28

Professional 400

Come to our Open Weekend 26th 27th September.

All prices include VAT @ 17.5%

Manufacturers	ACM, ESY, Gilco, Kusing, Lutz, Maggi, OPP, Pilana, Robland, Sagetech, Sagitario, Tork,
Products	Edge Banding Machines, Band Saws, Combination Machines, Dust Extraction Equipment,
Lathes, Multi Boring Machines, Panel Saws, Planer Thicknessing Machines, Radial Arm Saws,	
Sanding Machines, Site Saws, Spindle Moulders, Table Saws, Tile Cutting Equipment, Tooling, Wall Saws	

Contact us:
08700 500535 www.southernwoodwork.co.uk

Unit R1, Riverside Ind Est,
Littlehampton,
West Sussex BN17 5DF

Austrian quality and precision that you can afford!

Cast iron tables and 4 mm sheet steel chassis ensure Hammer machines are both accurate and stable while also offering probably the best value for money available in the UK!

5 function combination machine, single or three phase available:

- Solid cast iron tables
- C3 31 weight 580 kg
- Precision sliding table
- 12" saw blade, 104 mm cutting height
- 3 Speed spindle moulder
- 12" Planer/Thicknesser
- Quick change self aligning planer knife system
- Mobile unit available

Call now for your
FREE VIDEO
on 01908 327801

HAMMER UK

Unit 80-82 Tanners Drive · Blakelands Estate · Milton Keynes MK14 5BP · Fax 01908/211161

www.ukhammer.co.uk





The kit supplied for this test

Breath of fresh air

John Lloyd discovers the advantages of the electric vacuum press from Bagpress.com

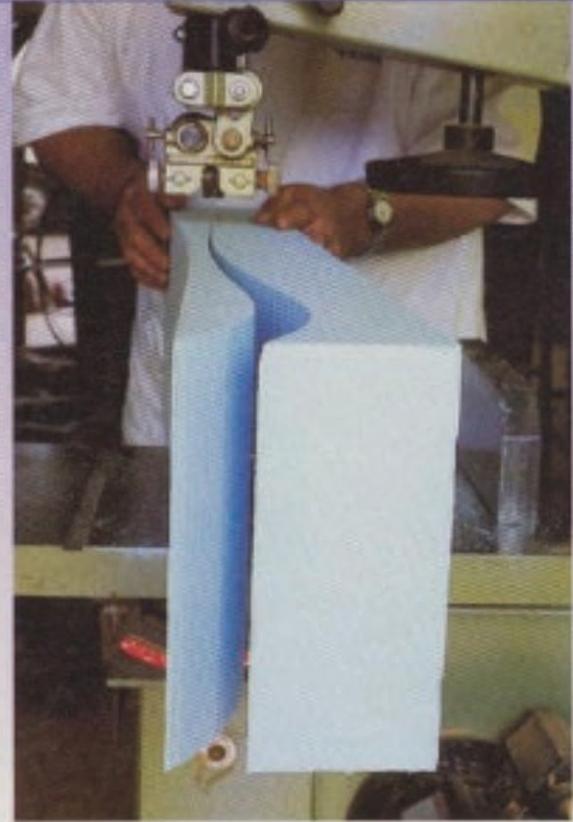
My first foray into the world of vacuum pressing was some eight years ago when I was asked to make a copy of a Georgian serpentine cabinet. When I was first approached, I was thinking along the lines of the traditional method of building up the doors and sides using wooden 'bricks' – this being the way that a furniture restorer sees curvy antique furniture made.

Fortunately, though, I mentioned my ideas to another furniture maker, who suggested I might try to get a little more up to date with my construction methods and use a bit of kit that he had been playing with. And that was when I came across the vacuum press.

New breed

Pressing using a vacuum isn't in itself ground-breaking stuff. After all, it's been fairly common knowledge for some time now that if you suck most of the air out of a sealed bag, atmospheric pressure will apply an impressive amount of force on anything that is unlucky enough to find itself inside the bag.

However, things have moved on from the original bulky systems using large pumps and rubber sheets. Systems now are much more compact and user-



New polystyrene on the block – making a former the easy way

friendly with small, quiet pumps, quick-release hose connectors and – perhaps most importantly – transparent vinyl bags with clever snap-shut closures.

All of which makes this new breed of vacuum press a much more viable piece of kit for the smaller workshop, with the added advantage that you are actually able to see what was going on inside the bag during pressing. There isn't actually anything terribly exciting to watch, but it is nice to know that nothing has moved out of its desired position as the bag pulls down.

Manly machine

I had already tested the Bagpress hydromatic system, which is powered by water, and also their pneumatic system utilising compressed air. Both these systems worked well enough, and at less than £100 are competitively priced. However, I think it would be fair to say that they are aimed at the occasional user.

The Bagpress electric system is much more grown-up, a good deal more expensive, and aimed at the more serious or professional user. The electric kits consist of the same familiar vinyl bags, connectors, closers and thin red tubing, but in place of a small plastic venturi, there is a manly looking electric pump.

The professional electric kits comes in two standard versions, the difference being the



Left: Once the three pieces are glued to a backing board, any bumps can be sanded flat



Far left: It can be planed too

Curvaceous former

volume of air that they can shift. The smallest is rated at 4m per hour and the larger, 8m per hour. If you really want to get carried away, there is also a 16m per hour version, and there are even larger pumps with a maximum capacity of an impressive 40m per hour for plumbed-in systems.

Kitted out

The kit that I have on test has the larger of the two standard pumps – 8m per hour – with the benefits being that this larger capacity can cope with vacuuming multiple bags simultaneously, and can also be used for vacuum clamping. The pump is mounted in a rather smart wooden carrying frame which has a dial gauge neatly mounted in its top surface. This frame not only looks good but also protects the pump and generally makes it more manageable.

The standard 300 micron vinyl bag measures 1220 x 2500mm (48 x 98in), and you would imagine that there wasn't much that could be done to improve on a bag. But Bagpress have managed it by adding a large-diameter port, which can be used in conjunction with a vacuum cleaner to get the bulk of the air out of the bag quickly – very neat!

Polystyrene formers

Not content with supplying various cunning systems to create a vacuum, Bagpress can also supply everything you need to create shaped formers. For my first attempt at vacuum pressing

all those years ago, I made up a serpentine former using shaped MDF ribs with various layers of ply secured to it. This was all mounted on another piece of MDF, with the resulting former not only being quite large but also incredibly heavy and unwieldy. As such, it was a real challenge for one pair of hands to coax into a plastic bag! Apart from being ungainly, this sort of former also takes quite a time to make.

Bagpress looked at polystyrene as the way forward in making formers, initially using expanded polystyrene, but more recently with the extruded version. The expanded foam is the sort that you are probably familiar with, made up of lots of little white balls of polystyrene somehow squished together. However, when this is cut the surface tends to be a bit rough and friable.

Extruded, on the other hand, is a far better class of polystyrene! It is a denser, more homogenous material and is much better at being machined. It also comes in a rather fetching shade of blue!

Just as an exercise, and with the guidance of Darren King from Bagpress, we made a replica of my original serpentine former using the extruded polystyrene. This comes in various sizes and thickness, from 50mm to 150mm (2in to 6in). The choice of thickness depends on the shape of the former that is being created and the capacity of your bandsaw.

Cutting to shape

The serpentine shape that we were going to make was quite long and wide – much too wide to go through my bandsaw in one piece. The first thing to do, then, was to cut a big lump of polystyrene into



Skin ply creates the perfect surface

Parcel tape makes a good glue barrier



three pieces that would go through my bandsaw. After this, the required curve was marked on the edges of the three pieces, which were cut to shape on the bandsaw. These three pieces are eventually stuck back together again, but a couple of the flat surfaces were a little lumpy so we had to flatten them by putting them over the planer – not something that would be possible with expanded polystyrene!

To hold the three pieces together, we made up an MDF baseboard and stuck the shaped pieces to it with transfer adhesive. The adjacent pieces were almost identical, but there were some slight differences in level, and a few slight lumps and bumps that needed to be removed so as to achieve a nice uniform curve across the width of the former.

High-density extruded polystyrene can not only be sawn and planed, it can also be sanded. We therefore made up a long sanding block with a length of MDF and some 80-grit abrasive paper that made very short work of sorting out the curves.

In order to cover up the joints between the three pieces of foam and create a perfect surface for pressing, we stuck a piece of 1.5mm ($\frac{1}{16}$ in) skin ply to the top surface, again with transfer adhesive. To complete the former, the surface of the ply was covered with packing tape, which ensures glue can't stick to the former's surface.

We used three laminates of flexible plywood to make up the 18mm- ($\frac{3}{4}$ in) thick serpentine panel – one of 8mm ($\frac{5}{16}$ in) and the other two of 5mm ($\frac{1}{8}$ in) –



Handy port for the vacuum to suck that air

In the bag

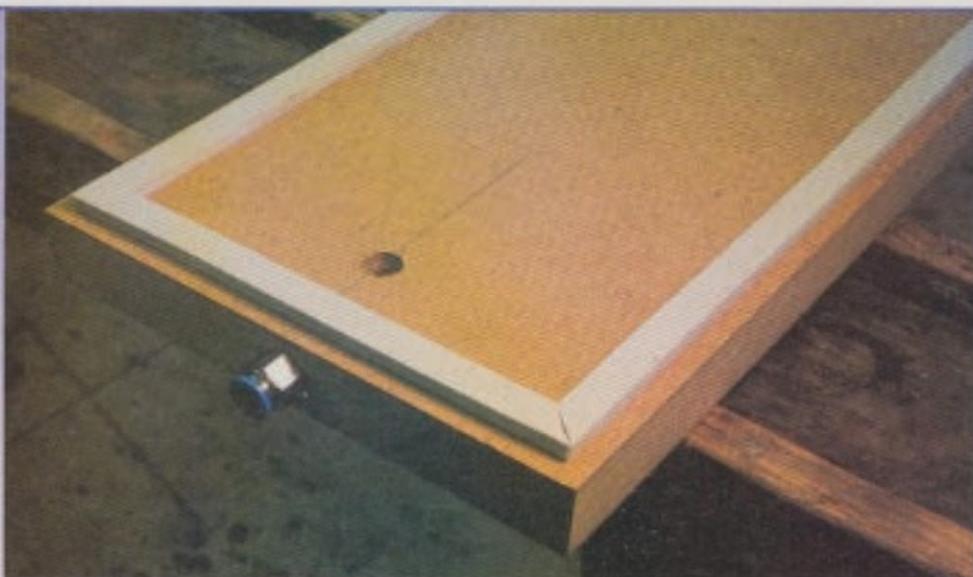


and faced the panel with maple Flexiveneer. Flexible plywood is brilliant for this sort of work because, unlike constructional veneers, it has no memory and therefore doesn't spring back at all when removed from the mould. Flexiveneer is available in various species, and is simply veneer that is bonded to a paper backing to give 1220 x 2440mm (48 x 96in) sheets. This means that jointing the veneer is largely unnecessary.

PVA prevails

The final part of the process was to glue all the various bits of ply and veneer together. I have always used Cascamite – now Extramite – for this sort of work, so I was more than a little surprised when Darren whipped out a bottle of PVA! PVA's a nice, friendly glue to use – you don't have to weigh it out, and you don't end up mixing either not quite enough or far too much of it. But surely PVA creeps and is totally unsuitable for laminating? Unbeknown to me, though, there are many, many different grades of PVA. Some do have a tendency to creep, but the D3-grade of PVA that Bagpress can supply you with doesn't creep and is waterproof.

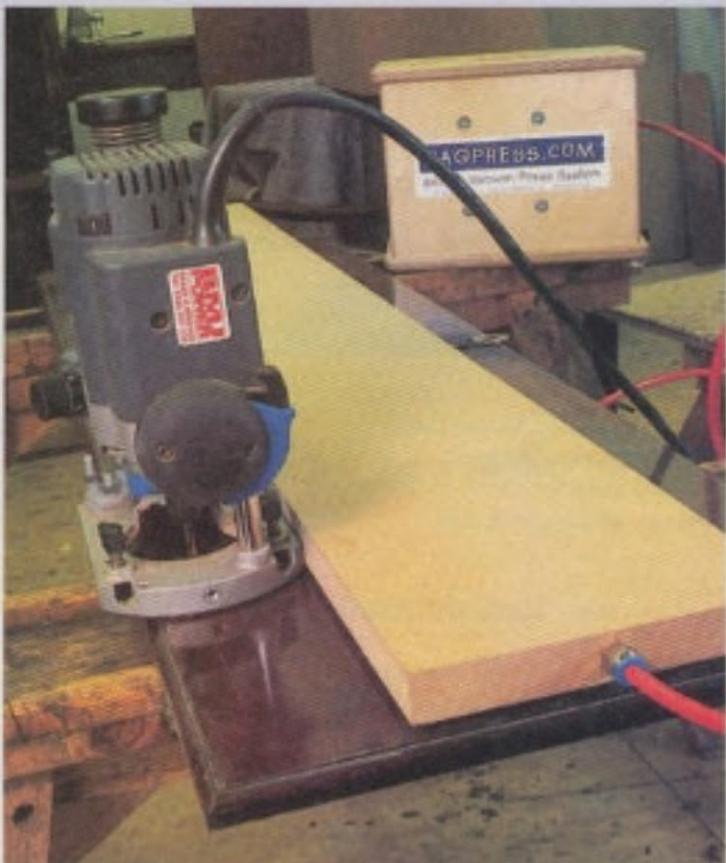
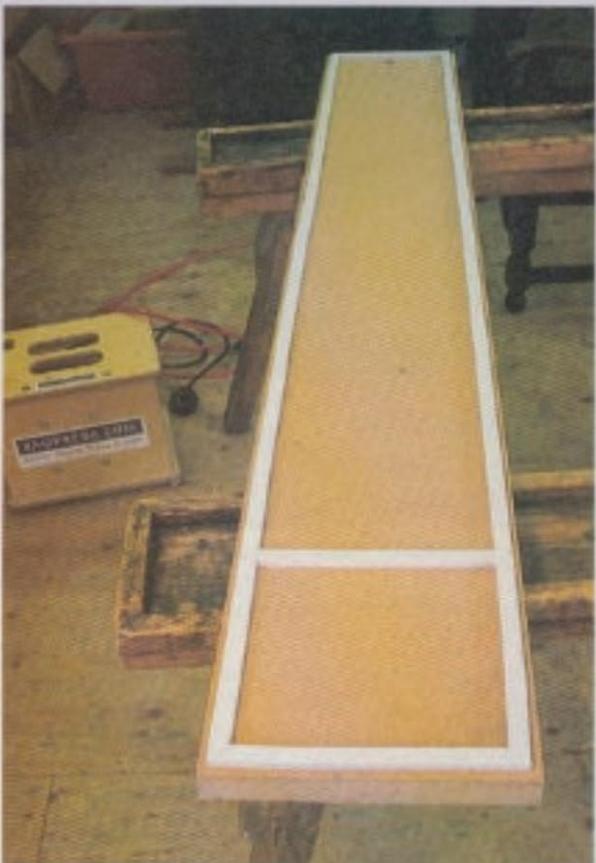
Applying the glue evenly over a large area has always been another unwelcome challenge in my life, which I have previously attempted to overcome with small paint rollers. Of course, I knew about glue spreaders with rubber rollers, but they aren't that cheap and I have never really done enough of this sort of work to justify the expense. But having seen a Pizzi glue spreader in action, I'm not sure if I could do without one. Just load up the reservoir with glue and away you go – no fuss, it's quick, and it's even easy to clean!



'High-density extruded polystyrene can not only be sawn and planed, it can also be sanded'

Left: Using draught-excluding tape and a connector, any shape of vacuum template can be made up

Below left: Make it shorter by adding a simple strip



Above: In use - no cramps to get in the way

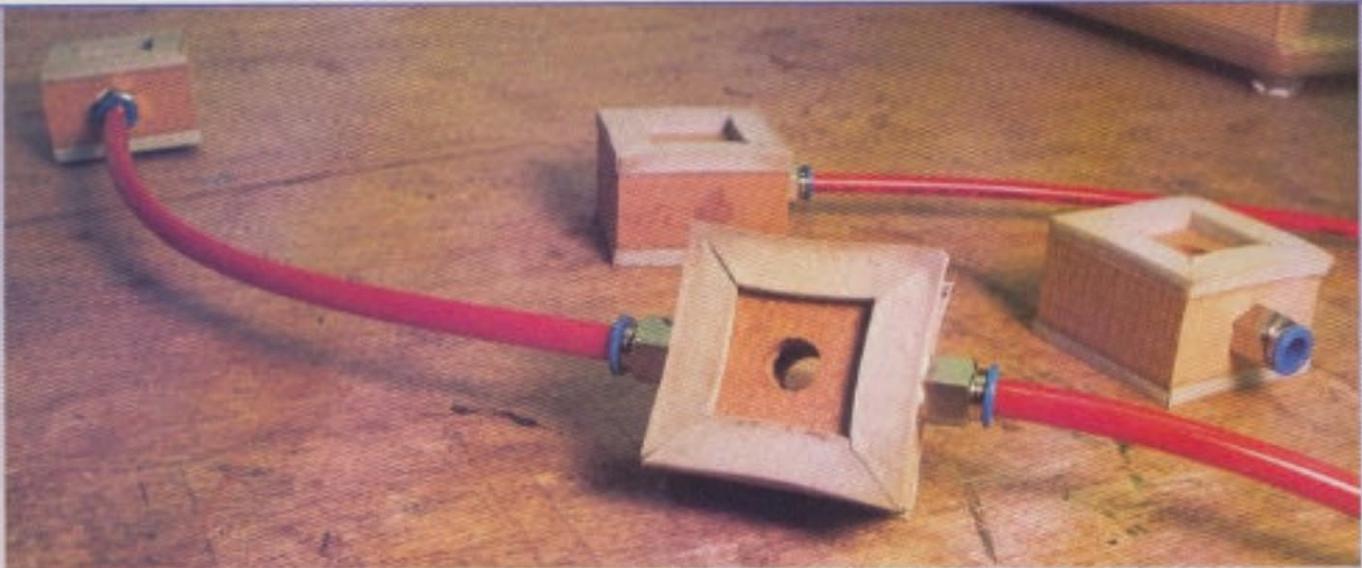
Pump action

Having glued up the various bits and popped them onto the former in the bag, it was time to check out the electric pump. The kits have a footswitch as standard, which is another nice Bagpress feature.

When the air is being sucked out, and the bag is pulling down onto the workpiece, there are some moments when you need the sucking to stop, and at that same moment have both hands free to pull the bag into the right position so it doesn't get into a mess or get trapped between

the laminations. For this, the footswitch makes the process much less challenging.

Having got the pressing under way, I was prepared for the usual long wait while the glue went off. And so you can imagine my surprise when, having had a leisurely cup of tea and a biscuit, Darren flicked the switch off and proceeded to unwrap the now curvy panel. Not only was this grade of PVA nice to use, it only took about half an hour to cure. The interminable drone of the vacuum pump during six-hour cure times is seemingly a thing of the past!



'The interminable drone of the vacuum pump during six-hour cure times is seemingly a thing of the past'

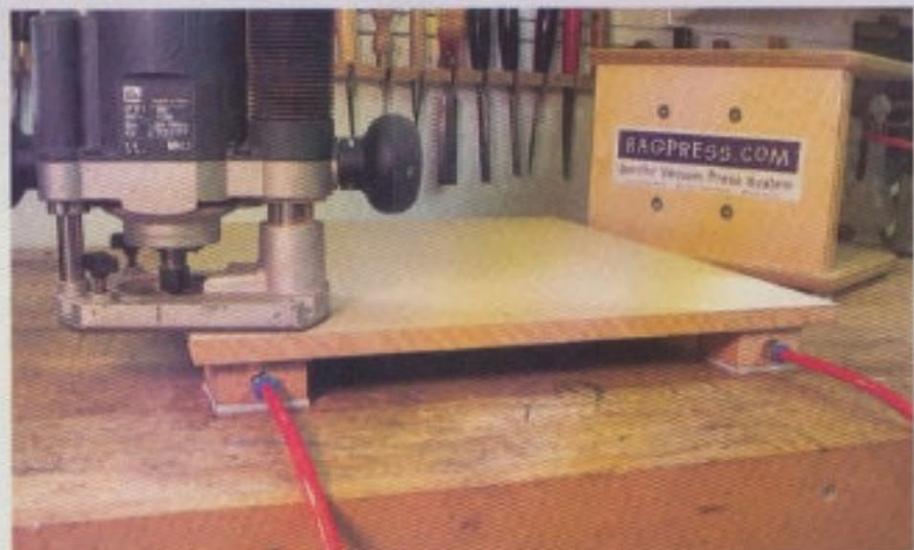
Facts & figures

Test kit RRP: £508.19 (inc VAT)

Contact Bagpress.com on:

01462 483366

Website: www.bagpress.com



Top: Home-made clamp pots using the same principles

Above: Unencumbered routing!

Dual purpose

The other thing that Bagpress supplied me with was a roll of sealing foam, just like the stuff you stick around your doors and windows to keep the house nice and warm in the winter. So either Bagpress knew I had a problem with draughts, or there was an alternative use for it!

Having gone to the expense of investing in a vacuum pump, it seemed sensible to make it earn its keep at every available opportunity. Bagpress, nothing if not cunning and inventive, use their pump and fittings in conjunction with the sealing foam tape to create vacuum templates and straightedges. It's always a pain running a router along a straightedge or around a template because the cramps securing them to the workpiece inevitably get in the way. Using a vacuum to hold them in place has got to be a fine idea.

Not having any particular need for a shaped template, I decided to make a straightedge. I found myself an MDF offcut about 4ft long and 6in wide, and stuck pieces of the sealing foam close to the edge all-around one of the faces to create a

continuous seal. All I had to do then was to fit the tube from the pump to the straightedge in such a way as to create a vacuum in the sealed area.

The Bagpress system uses small, threaded tubing connectors to join the tubing to their bag connectors. Having drilled a hole and tapped it with a tap – also supplied by Bagpress – a connector was screwed into the end of the straightedge, and another hole drilled at right angles to it in the underside of the MDF to complete the circuit. Fired up with enthusiasm, I used the same technology to make up some vacuum pots with several small blocks of MDF, which are great and incredibly cheap!

Verdict

This whole system is well thought out, simple and flexible. It doesn't break the bank, and Bagpress are even happy to give advice and supply you with everything you could possibly need. Brilliant! ■

Extremely Affordable/Unbelievable Quality

Discover why these Czech crafted machines by Rojek are fast becoming the tools of choice for Britains Woodworkers



**MONEY BACK
NO QUIBBLE
GUARANTEE**

PK 300A SLIDING TABLE PANEL SAW

£2,443 + VAT

- Built in Scorer Unit
- 1500 to 3000 Sliding Table Capacity
- Pivoting Cross Cut Fence for All Angled Work
- Micro Adjustable Rip Fence

TAK 300 SPINDLE MOULDER

£1068 + VAT

- Heavy Duty Cast Iron Construction
- 4 Speeds, 1400 to 8000 RPM
- 3HP Single Phase or 4HP Three Phase Choice
- Independent Fence Plates Adjustment
- Sliding Table and Tilting Options



KPF 300 COMBINATION MACHINIS KPF & RPS
KPF £2408 + VAT KPS £3656 + VAT

- Saw, Spindle Moulder, Planer Thicknesser
- Heavy Cast Iron Construction
- Independent Motors
- Choice of Sliding Tables
- Ideal Spacesaver Workshop



Exclusive Distributor in UK
Unit 6B, Philadelphia Complex,
Houghton Le Spring,
Tyne and Wear DH14 4LG
Tel: 0191 581 0784
Fax: 0191 581 2973

E-Mail: jordan@woodmachinery.co.uk

for a lifetime
of woodworking
choose

MEP 300 PLANER THICKNESSER

£1159 + VAT

- 95 diameter 4 knife, Steel Cutterblock with
- Low Noise Wedges
- Heavy Cast Iron Tables Non Swing Away
- Quicker Change over and Setting
- Large Pivoting Fence
- 3HP Single Phase or 4HP Three Phase Choice

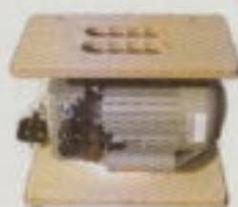


BAGPRESS.COM

our products really suck!

Professional and Industrial Vacuum Press Systems

as featured in Ben Huggins'
forthcoming new series
'Mates Rates'
on Discovery Home & Leisure



Professional Systems

4m²/hr system - £432.50
8m²/hr system - £529.00
Both with 1220mm x 2500mm
350 micron PVC bag, two sealing
strips, foot switch, built-in vacuum
gauge and breather fabric
Adjustable vacuum level



Industrial Systems

16m²/hr system - £995
With one 1500mm x 3500mm
450 micron PVC bag + two
1220mm x 2500mm 350 micron
PVC bags, six sealing strips,
foot switch, built-in vacuum
gauge and breather fabric
Adjustable vacuum level
25m²/hr and 40m²/hr systems
available to special order

Consumables & Accessories

Plywood

5mm Flexible plywood 1220mm x 2440mm	£24.50
8mm Flexible plywood 1220mm x 2440mm	£28.50
1.5mm birch plywood 1525mm x 1525mm	£18.50

Mould Making Foam & Accessories

600mm x 2500mm x 150mm	£35.59
920mm x 1580mm x 100mm	£23.48
Transfer adhesive tape 50mm x 50m	£5.95

Adhesive & Glue Spreaders

1kg Bagpress, D3 cross linking PVA	£6.95
5kg Bagpress, D3 cross linking PVA	£22.95
25kg Bagpress, D3 cross linking PVA	£75.00
550g (19oz) moisture cure polyurethane	£12.50
1100g (38oz) moisture cure polyurethane	£19.00
Puzzi 160mm hopper fed glue spreader for PVA	£69.50

Spare Bags

1220mm x 2500mm 350 micron, 2 seals	£67.50
1220mm x 3500mm 350 micron, 2 seals	£87.50
1500mm x 3500mm 450 micron, 2 seals	£107.50
All our bags are fitted with our Rapid Evacuation Port	

Vacuum Clamping Pads

125mm x 125mm, made of 18mm HP laminate, set of four with two end and four way adaptors and 4m tubing	£75.00
Custom vacuum pads and machine beds made to order	

All prices shown ex. VAT; delivery charges will apply

BAGPRESS.COM, Unit 6 Flint Road, Letchworth, Hertfordshire, SG6 1HJ
T: 01462 483366 F: 01462 483377 www.bagpress.com enquiries@bagpress.com

Diary 2003 events

1	2	3	4		5	6	7	8	9	10
11	12	13	14		15	16	17	18	19	20
21	22	23	24		25	26	27	28	29	30

SEPTEMBER

- 19-21 Sept** **Wood Fair 2003**
Leading woodland, wood use and woodcraft event at Bentley Wildfowl and Motor Museum, Halland, East Sussex
Tel: 01825 840573
Website: www.eastsussexcc.gov.uk/env/events

- 19-24, 26 Sept-1 Oct** **Green woodwork and chairmaking course**
Gudren Leitz, Greenwood Courses, Hill Farm, Stanley Hill, Bosbury, Herefordshire HR8 1HE
Tel/Fax: 01531 640125

- 20-21 Sept** **Pole lathe turning**
22-26 Sept **5-day chairmaking course**
Peter Wood, Country Chairs, Fomers Centre for Arts and Crafts, Staunton Harold, Ashby de la Zouch, Leicestershire LE65 1RU
Tel: 01332 864 529
Email: teaching@finewindsorchairs.co.uk
Website: www.finewindsorchairs.co.uk

OCTOBER

- 3-5 Oct** **Green woodwork course**
Taster courses for beginners. Starting from the freshly felled tree, learn to cleave the wood with axes and wedges, shape it with drawknives then turn it on a pole lathe. Also covers the buying and sharpening of tools and wood selection. Three-day course, £115. Gudren Leitz, Greenwood Courses, Hill Farm, Stanley Hill, Bosbury, Herefordshire HR8 1HE
Tel/Fax: 01531 640125

- 4-5 Oct** **Timberworld**
21st anniversary of the timber merchants
Timberworld, Brighton Road, Horsham, W Sussex.
Contact David Kemp Porter
Tel: 0500 272828

- 6-8 Oct** **Make a pole lathe course**
Greenwood course in making and using your own pole lathe. £115 plus £45 for materials. Gudren Leitz, Greenwood Courses, Hill Farm, Stanley Hill, Bosbury, Herefordshire HR8 1HE
Tel/Fax: 01531 640125

- 4 Oct** **Woodfinishing demo by Jim Kitson**
11 Oct **Woodturning by Tim Hope**
16 Oct **Woodcarving by Peter Berry**
25 Oct **Machinery by Robert Sorby**
Free demonstrations, 10am to 3.30pm, at John Boddy's Fine Wood & Tool Store Ltd, Riverside Sawmills, Broughtonbridge, North Yorkshire YO51 9LJ. The firm also runs courses.
Tel: 01423 322370
Email: info@john-boddy-fws.co.uk

- 11 Oct** **DeWalt Day at Isaac Lord**
9am-4pm, Isaac Lord Showroom and car park,
185 Desborough Road, High Wycombe,
Buckinghamshire HP11 2QN
Tel: 01494 835200
Fax: 01494 445124

- 12 Oct-18 Jan** **What is Craft?**
Exhibition exploring the borders between crafts and art and design. A wide spectrum of people have contributed their ideas and exhibits in an attempt to answer the question, including Laurence Llewelyn-Bowen, Viscount Linley and Jade Jagger. The Hub, Navigation Wharf, Carre Street, Sleaford, Lincolnshire NG34 7TW. Open Monday-Saturday 9am-5pm, Sunday 10am-5pm. Free entry and disabled access.

- 14 Oct** **Carving course**
One-day carving course with Mick Atkins at Isaac Lord, 185 Desborough Rd, High Wycombe, Buckinghamshire HP11 2QN
Tel: 01494 835200
Fax: 01494 445124

- 16 Oct** **Ladderback chairs**
Ann Hayes demonstrates ladderback chairs at Shropshire Association of Woodturners, 7pm, The Cock Inn, Hanwood, Shrewsbury, Shropshire
Contact George Powell
Tel: 01743 240661

- 24-25 Oct** **Record Power Days**
10am-4pm, Yorkshire Woodcraft Supplies Ltd, Finkle Street, Cottingham, East Yorkshire HU16 4AZ
Tel: 01482 844200
Fax: 01482 844220

- 26-31 Oct** **Fine furniture-making, part II**
12-17 Oct **Fine furniture repair and refinishing**
17-19 Oct **Woodturning for beginners**
21-24 Oct **Woodcarving in relief**

- Short courses at West Dean College, Chichester, West Sussex. Send for a brochure.
Tel: 01243 811301
Email: short.courses@westdean.org.uk

- 31 Oct-1 Nov** **Woodworking exhibition with Ray Jones**
Kendal Tools and Machinery, Unit 10, Lake District Business Park, Kendal, Cumbria LA9 6NH
Tel: 01539 733774
Email: info@kendaltools.co.uk
Web: www.kendaltools.co.uk

SHOW OF THE MONTH

- 26-28 Sept** **D&M WOODWORKING EXHIBITION**

More top brand names, new products and discounts at this year's annual international woodworking exhibition. Held at Kempton Park Racecourse, Staines Road East, Sunbury-on-Thames, Middlesex. Admission is free. Tel: 020 8892 3813
Email: sales@d-m-tools.co.uk

The D&M show is well worth a visit



BIG EVENTS NEXT MONTH

- 6-8 Nov** **TOOLS 2003 EXHIBITION**

One of the biggest woodworking events in the country, hosted by the Axminster Power Tool Centre. Attractions include a host of demonstrations by internationally known woodworking personalities, the chance to see and buy a wide range of products from major power tool manufacturers and an opportunity to browse through GMC books and subscribe to the magazines – Furniture & Cabinetmaking, The Router, New Woodworking, Woodturning and Woodcarving.

Tickets from APTC ticket hotline: 01297 34836
Special preview ticket (Thurs 6) £6
Advance ticket (Fri 7 or Sat 8) £5
Two-day ticket (Fri & Sat) £8

Come and meet the Editors



Please send us your details

Please send details of your event 12 weeks ahead of the start of the month in which it will occur to:

Colin Eden-Eadon, Editor, F&C, 85 High St, Lewes, East Sussex BN7 1XN.

Before travelling, readers are advised to check details with the venue or organisation listed. Inclusion is subject to space and is at the Editor's discretion.

Minimax, my choice



CU300 smart
Universal Woodworker



SC3W
Sliding Table Panel Saw



T50 Spindle Moulder
with optional sliding table



S45
450mm Bandsaw



FS30 smart
Planer Thicknesser

Minimax

SCM GROUP (UK) Ltd
Dabell Avenue, Blenheim Industrial Estate, Bulwell
NOTTINGHAM NG6 8WA
Tel. 0115 977 0044, Fax. 0115 977 0946
www.scmgb.co.uk scmgroupuk@scmgroup.com

Please send me further details (tick as required)

- Panel Saws
- Lathes
- Spindle Moulders
- Sanding Machines
- Overhead Routers
- Universal Woodworkers
- Planer Thicknessers
- Bandsaws

Name _____ Company _____

Address _____

Post code _____

Telephone _____

E-mail _____

Toolbox

Members of the F&C team rummage in the toolbox for more new gadgets, tools and machinery

This symbol denotes items tested by F&C. Items not bearing the icon have yet to be tried out by us, but do appear to merit attention.



New Canadian brass-backed saw from Adria

Now in the hand – but will it improve your dovetails?



This model is £85 (inc VAT)

Contact: Mike Hancock, Classic Hand Tools Ltd. Tel: 01473 735116
Website: www.classichandtools.co.uk

Very crisp in its production, this saw looks great. So often, the handles on modern saws are just not in the same league as those of yesteryear. This one is made of bubinga, and I am pleased to say is the exception to the rule, feeling very comfortable in the hand.

There are two models at the moment – a tenon saw and a dovetail saw. Although I have only tried the dovetail saw, which has 16tpi, if the tenon is of the same standard then these are certainly tools to keep an eye on.

Ed.

MK2 of the T5 router for Trend

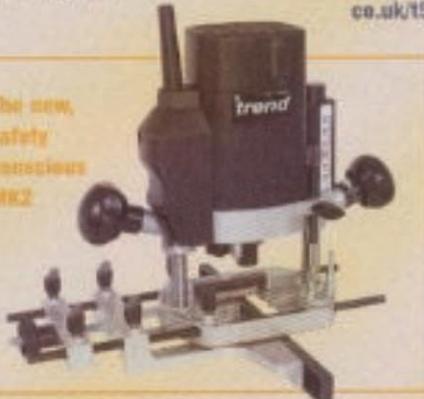
Trend has launched an updated version of its successful T5 router, which has been a major budget model since its inception in late 1998. It has established itself as one of the best in its price bracket, and has a good track record.

The real difference is a new switch, designed to make the router safer. It has an ergonomically shaped lever that once released, will turn off the machine automatically. It also comes with a very useful trigger lock for using in a router table. Ed.

T5EK/MK2 specifications

Plunge stroke	0-50mm
Power input	850W
Standard model collet diameter	1/4in (8mm also available)
Cutter diameter maximum	40mm
Guide bush diameter	20mm
Weight	2.7kg
Voltages	240V and 115V

The new safety conscious MK2



RRP:
£187 (inc VAT)

Available from:
Trend
Tel: 0800 487363
Website: www.trendmachinery.co.uk/t5

Miller dowels – new take on an old joint

These are an updated version of that perennial favourite of chairmaking factories and individual craftsmen alike – the humble dowel. While never the strongest of joints due to their long-grain to end-grain configuration, they have always appealed as a locator, and have often replaced the tenon.

This new version should be substantially stronger because of the stepping, which provides a greater gluing area, and the shoulders, which lock the joint together. Simple to fit, with a custom drill bit and pre-machined dowels that are a tight fit – anyone with a power drill can use them, so expect a rash of dowel-headed joints!

Ed.

Carb-I-Tool Router Cutter Range

Data Powertools Ltd, South Wales' leading supplier of power tools and machinery to trade and industry, announces the launch of a range of Australian-manufactured router cutters on the UK market.

The new range consists of over 200 different profiles including solid carbide and replaceable tip cutters. Ideal for use by trade, industry and serious hobbyists alike, these cutters offer no-nonsense quality at very competitive prices.



A 40-page mail order catalogue has been published and is available from Data on 0845 2300 299

New horizons for jointing



Contact: Roger Phibey,
Wood Workers Workshop.
Tel: 01189 272266

Toolbox

Members of the F&C team rummage in the toolbox for more new gadgets, tools and machinery

This symbol denotes items tested by F&C. Items not bearing the icon have yet to be tried out by us, but do appear to merit attention



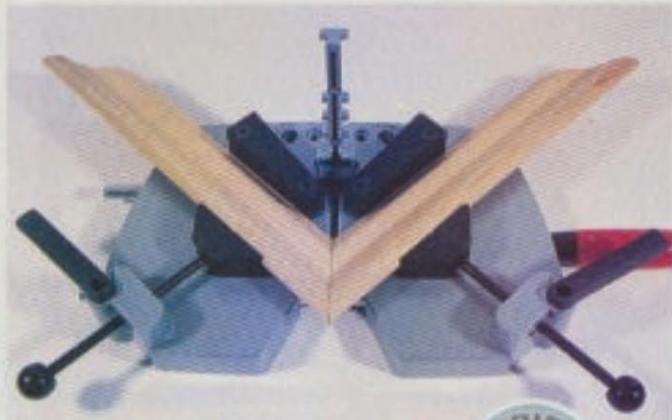
Gross Stabil Multi-Angle Clamp MGS

This multi-angle clamp is specifically designed for clamping joints of different angles together. It can be set from 0-120° in 15° increments. The clamp is principally made up of two epoxy-coated zinc die-cast platforms that are pulled together by a screw mechanism to tighten the joint.

The locking clamps for the workpiece use an effective cam action, and can take material up to 100mm (4in) wide. The clamps pivot on the platforms so as to accommodate the angle that is being set. The clamping jaws are each fixed to the platforms with two hex-set screws.

The mechanism is easy to set up and use. I found that it pulled the joints together easily, accurately and firmly. Although it is possible to clamp relatively small circular structures or four-cornered frames, the principal function remains to clamp one joint at a time.

Terry Porter



The Gross Stabil Multi-Angle Clamp MGS



RRP: £88.80 (inc VAT)

Available from: Axminster Power Tool Centre,

Freephone: 0800 371822. Or direct from Gross & Freilich

GMBH & Co KG, Postfach 1109, D-71255, Weil der Stadt, Germany.

Website: www.gross-freilich.de Email: grossinfo@aol.com

New disposable blade cutters from Freud

Replaceable tip cutters are fast becoming a common sight in routing catalogues. This must, in part, be due to an increase in demand. Simple economics have their part to play too – the cost of replacing a cutter this way is substantially less than the more traditional method of honing it with a diamond stone and paying an occasional visit to the local tool-sharpening shop.

At around twice the price of same-brand braised tip bits, Freud's Pro cutters will certainly save you money the more frequently you use them. Ideal for anyone with a reasonable workload, there is no downside to this type of cutter. While there is nothing to stop you honing the blades during their lifetime in order to get the optimum performance, with spares to hand there would be no excuse to use a less than sharp cutter.

Stuart Lawson

Ryobi goodies in new guide

The Ryobi 2003 product guide is packed with new designs, with two-year warranties on everything and more of their successful combo kits. For example, there's the Take Five – five 18V cordless power tools in one tough,

wheeled case/workbench, with three batteries, charger, spare blades etc for £470 inc VAT – or the new ERH-600V 2kg rotary hammer drill with 600W motor, built-in safety clutch and variable-speed trigger for £82.



THE NEW HDB200XL - Exclusive turning performance!



FREEPHONE:
0800 064 4180

FREE 1½ hour VIDEO!
See why the HDB200XL is truly unique! Includes practical sessions with Dave Roberts on finishing and polishing Nigel Vassay on spindle and screw chuck turning, long hole boring and stem joining. Also demonstrated is the latest tool sharpening from Tobias Kaye that simply produces the perfect bevel & cutting edge on all your tools! Contact us today - View it tomorrow!

The HDB200XL features:

- Twin row (zero-play) main bearing
- Full electronic control 50-3800rpm
- Truly whisper-quiet running
- 1630 x 402 spindle and 3053 bowl cap
- Ground bed and shafts
- Spring ball tailstock auto-centering
- 300° swivelling cast iron headstock
- High leverage cast iron clamps
- Twin bearing, 2MT live tail centre
- 2MT drive centre and predictor
- M30 x 3.5 spindle for heavy loads
- 10° lockout
- 24 hole on-board indexing
- 1/2HP 3 ph motor (with inverter)

All for just £1194.98 inc. VAT!

Principal options are:

<input type="checkbox"/> 1/2HP motor	£53.45
<input type="checkbox"/> Bench Kit (not inc. timber)	£39.95
<input type="checkbox"/> Bowl Turning Attachment	£106.95
<input type="checkbox"/> Delivery	£41.15

The HDB® also has the widest range of turning & work mounting accessories. (See price list included with your free information pack)

T: (01323) 442440

FAX: (01323) 840696

Web: <http://www.hegner.co.uk>

E-mail: sales@hegner.co.uk

HEGNER U.K.
LTD.

UNIT 8, NORTH CRES., DIPLOCKS WAY,
HAILSHAM, EAST SUSSEX, BN27 3JF

Phone and fax numbers correct at time of going to press but subject to change without notice

"Hegner stands head and shoulders above its competitors . . . Worth every penny."

(GOOD WOODWORKING MAG. "TOOLS ON TEST")

— World patents protect the critical design factors that make Hegner tools truly unique. No other saw therefore matches the benefits of cutting precision, smoothness of operation and blade economics automatically enjoyed by every Hegner owner.

HEGNER QUALITY & PERFORMANCE IN YOUR HANDS FOR UNDER £200!

OPTIONAL ACCESSORIES include an extraction system that reduces airborne dust emissions to concentrations of less than one quarter of one thousandth of a gram per cubic metre of air. RING TODAY and read the incredible facts for yourself tomorrow.

FREE COMPREHENSIVE INFORMATION
PACK BY 1ST CLASS RETURN POST.

HEGNER U.K.

T: (0800) 064 4180
LTD. www.hegner.co.uk

UNIT 8, NORTH CRES.,
DIPLOCKS WAY, HAILSHAM,
EAST SUSSEX, BN27 3JF



Smoothest, quietest, most versatile, most accommodating to your turning style - in every quantifiable area, the VB36 brings you truly supreme performance. Discover how and why. **RING US TODAY!**

"Pure perfection" in concept, engineering, construction, and in every practical way, the VB36 surpasses all expectations. There is no other lathe in its class." (DALE NISH)

"The most breathtaking advance in lathe technology for hand turners I have seen." (ZACH TAYLOR)
"Unbelievably smooth and solid. The lathe I have wanted for all my turning life!" (MILLAN BATTY)
"Fantastic! Meets every conceivable woodworking need, nothing else compares." (STEPHEN COOPER)

FREE VIDEO
See why the VB36
"exceeds all expectations"
and how it expands
your turning horizons!
(no relocate running time)

VB ACCESSORIES INCLUDE:
H.D. Tailstock giving 26" x 32" spindle capacity; toolrests giving up to 20" reach; thread adaptors; footswitches etc. etc.
FREE VIDEO & 30 PAGE INFORMATION PACK.

V.B. MANUFACTURING T: (0800) 064 4180

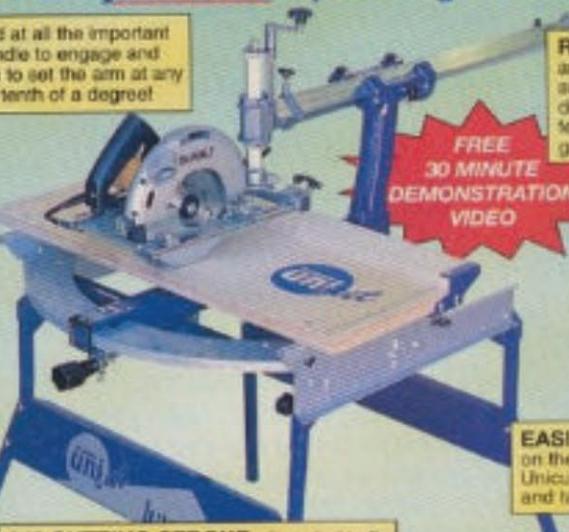
UNIT 8, NORTH CRES.,
DIPLOCKS WAY, HAILSHAM,
EAST SUSSEX, BN27 3JF

Quickly convert your portable power tools into precision machines with the advanced UNICUT 2 - just £199! (Folding floorstand - £29 extra)

HAIRLINE ACCURACY: Pre-sets are provided at all the important angles for cutting frame joints. Simply twist the handle to engage and lock. The superb protractor scale also enables you to set the arm at any intermediate angle to an accuracy of better than a tenth of a degree!



OVERHEAD ROUTING: By adding the Router Adapter Plate (£19.90) any portable router can be fitted to the tool carriage for simplified machining of housings, tenons, grooves, rebates and so on.



**FREE
30 MINUTE
DEMONSTRATION
VIDEO**

RIP & CROSSCUT: In addition to radial arm crosscutting, the tool carriage can be swivelled through 90° and locked at any distance from the fence so that work can be fed along the table for ripping, bevelling, grooving etc with saw or router.



24" CUTTING STROKE: 8 sealed ball-bearings guide the radial arm smoothly and precisely along the path you select to cut any simple or compound angle. Adjustable stops limit the travel. The carriage takes all popular saws and has 4" height adjustment.

**NEXT DAY DELIVERY
30 DAY APPROVAL
FULL CASH REFUND
UNDERTAKING**

EASILY TRANSPORTABLE: Mounted on the folding legstand shown here, the Unicut 2 is easy to take wherever needed and takes up little space when not in use.

LIMITED OFFER

Unicut 2	£199.00
Floorstand	£29.00
Router adapter	£19.90
Angle grinder ad*	£28.50
U.K. Delivery	£14.00

T: (0800) 064 4180
FAX: (01323) 840696

Web: <http://www.hegner.co.uk>
E-mail: sales@hegner.co.uk

HEGNER U.K.
LTD.

UNIT 8, NORTH CRES.,
DIPLOCKS WAY, HAILSHAM,
EAST SUSSEX, BN27 3JF

*Prices and specifications correct at time of going to press but subject to change without notice. *Power tools not included in offer. *Deliveries subject to availability.

A Website Dedicated to Premium Quality Power Tools & Machinery

.... At Extremely Attractive Prices !!

The Rutlands website has 6000 of the finest woodworking tools from around the world. Each product shown on the site features quality technical information, crisp photography and you can read customer product reviews.

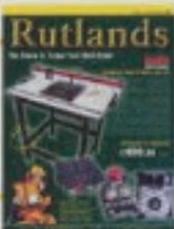
Order online by credit card for same day despatch and of course, our prices are highly competitive.

The Ultimate in Router Fences from Inca

FREE 96 Page Catalogue visit

www.rutlands.co.uk

or Telephone 01629 815518



Porter Cable • Freud • Lamello • Jessem • Scheppach
Leigh • Metabo • Panasonic • Fein • Senco • Dakota • Trend • Inca

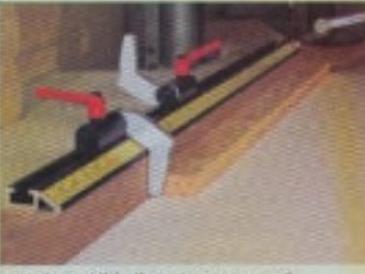
FLIPSTOP
M E A S U R I N G
S Y S T E M
F O R
C U T T I N G
L I S T S

FLIPSTOP is a unique measuring stop system which can be used on most types of machine tools to provide accurate, repeatable machining operations easily and quickly.

Mounted onto any fence or backstop made from standard ex 2" stock, you can tailor a system to your requirements.

Positioning a stop takes 5-8 seconds and if further stops are used, handling can often be reduced by 50%.

Whether machining one piece to length or working through a lengthy cutting list, FLIPSTOP will speed production by removing the measuring and marking process.



Datum Tools Ltd

The Factory, Mardens Hill, Crowborough, East Sussex TN6 1XL
Tel: 01892 667800 Fax: 01892 667900



Good Craft
Centre

For a FREE quote

for your project, all you need to do is let us have your cutting list and we'll get back to you with a no-obligation quote.

We look forward to hearing from you!

01327 341155

www.goodtimber.com



New Creation Farm, Furnace Lane, Nether Heyford, Northants. NN7 3LB • Tel: 01327 341155

JAYCEE TOOLS

TOOLS FOR ALL TRADES

JET Machinery
Now In Stock



Panel Saw Z2500

- We aim to supply you with the best service & back-up

- Fully equipped workshop to provide after-sales service & repair



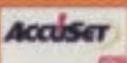
XSD310
Universal

XSD310 12"
Planer Thicknesser
with optional A4811 morticing unit



- Many spares & accessories
- Mail Order Service available - please phone

We stock a massive selection of Hand & Power tools including the following leading brands:



521abc Yeading Lane, Northolt,
Middlesex UB5 6LN

Tel: 020 8841 1099 Fax: 020 8842 4966

Open: Mon-Fri 8.00am-5.30pm, Sat 9.00am-4.00pm

Minimax LAB 260 Universal



JERSEY
£2799

CounterMax

Safe End Profiling on
a spindle moulder -
and no sliding table!!

NEW!



£99

CMT Mk2 Router Table Complete



order on line
£299

ITECH BM1 Bench Mortiser



£499

Sedgwick 571 Mortiser



The most popular
choice for the
trade.
1.5hp Motor
Compound Table

£938



ITECH SP281 Tilt Spindle

Free Tooling
£1199



"an excellent
line of Italian
radial arm
aws" Furniture &
furniture making 40

£1099



PRICE AXED!

£669



Sedgwick PT260 Planer Thicknesser

PRICE MATCH!
* we will match any genuine
price for this machine

£1537



Elektra HC260 Planer Thicknesser

order on line
£585



Elektra BA316 Bandsaw

Free Legstand
£328



1 HP Motor
- 1200 cmh
with flexible
hose

order Online
£175



Moistec Digital Moisture Meter

order on line
£49



Sedgwick TA315 Sliding Table Saw Bench

PRICE MATCH!
* we will match any genuine
price for this machine

£1932



Centauro SP400 Bandsaw

400mm Band
wheel, 1.5 hp
Motor, Rack &
Pinion Guide
Adjustment -
'real quality'

£938



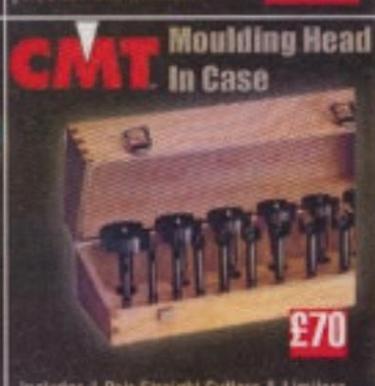
1.5 HP Motor
- 2300 cmh

Order Online
£235



Minimax SC2 Panel Saw

£2350



CMT Moulding Head In Case

£70

includes 1 Pair Straight Cutters & Limiters



DeWalt DW625EK Router

In Steel Case
£249



Scott & Sargeant
1 Blatchford Rd,
Horsham, Sx RH13 5QR

E - sales@scosarg.co.uk
W - machines4wood.com

F - 01 403 274444

T - 01 403 273000

Reviews

Books marked with **gmc** can be ordered through our mail order department.
Add £2.50 p&p (UK), £3.50 overseas, plus £1.50 per additional book.

In the 18th Century Style

By the editors of *Fine Woodworking*

Published and available from Taunton Press, 63 South Main Street,
PO Box 5506, Newtown, CT 06470-5506 Email: tp@taunton.com
£19.95 paperback 170 pages ISBN 1 56158 397 9

The 18th century is remembered for its refined elegance and admired by all woodworkers.

This book brings back the exquisite styles and beautiful forms of this period, recreating the classics from the era of Sheraton, Chippendale, Hepplewhite and the great American cabinetmakers.

There are 10 quite advanced projects presented here, including building a Pembroke table, veneering an ellipse and inlaying a Federal-style oval.

However, it's not all projects, and there are plenty of information and pictures to inspire the reader to improvise rather than copy. The wealth of background information provided about the period is also great, so not only should this book increase your own knowledge, it would also make a welcome addition to your library.

It includes more than 250 superb, inspiring pictures and illustrations which help to explain the more intricate details.

Many of the techniques common to the century are explored, helping you in your quest to make these projects. The detailed instructions may seem a little daunting at times, but shouldn't be a problem as the techniques are specific and clear, often

using step-by-step guides.

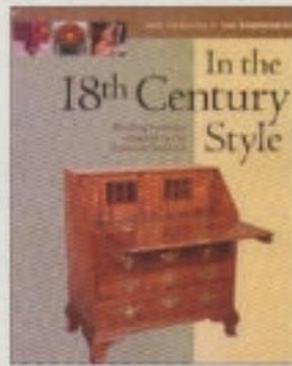
The book delves deeply into many peripheral subjects, one of these being the history of mahogany – the most used wood in the 18th century.

Unlike today's modern furniture based predominantly on shape rather than designed patterns, 18th-century work tended to be extremely intricate.

This makes the book a good resource for modern designers in need of inspiration for new ideas.

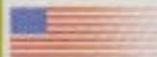
In the 18th Century Style is a good way to expand your tastes and learn about carving. It also has some very useful advice and tips, and the 170 pages give you plenty to work through.

With over 20 contributors, all experienced woodworkers and craftsmen, this book is a must for anyone interested in the history of fine furniture. **Midath Hayden**



To order books published by GMC Publications in the UK contact:

GMC Publications
Tel: 01273 488005
Fax: 01273 402866
Email: pub@thegmgroup.com



To order books published by GMC Publications in the USA contact:

Stirling Publishing Company Inc
Tel: (212) 532 7160
Fax: (212) 213 2496
Email: custservice@sterlingpub.com



To order books published by GMC Publications in Australia contact:

Capricorn Link Pty Ltd
Tel: +61 (0) 4577 3655
Fax: +61 (0) 4577 5268
Email: capbooks@bigpond.com

In the Modern Style

Published and available from Taunton Press (see left) £19.95 paperback
170 pages ISBN 1 56158 581 5

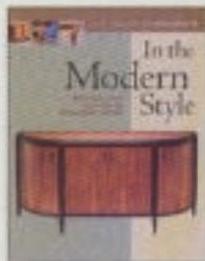
As in the other three books in the series, the makers here all draw on what has gone before, adding their own personal 20th-century interpretations of classic furniture.

This one lives up to the standards set by the others and is one of the best things Taunton has ever published. Most of the pieces have a quiet subtlety and I would even have many in my own house.

The first section contains exploded drawings and high quality 'in progress' shots, and the second comes with complete making instructions – minus measurements, which anybody working at this level should be able to cope with!

So while not for beginners, a huge variety of techniques is covered. A truly excellent book – I can't recommend it highly enough.

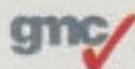
Colin Eden-Eadon



Save over 20%

Offer closes 31st December 2003.

Please contact GMC Publications (see panel) and quote ref: R51 and ISBN 1 86108 275 4



Making Chairs and Tables – Volume II is reduced from the normal GMC catalogue price of £14.95 to the October **special offer price of £9.95** plus £2.50 p&p (£3.50 overseas).

This second collection of projects from Furniture & Cabinetmaking magazine features pieces by some of the most renowned makers in Britain. Projects include dressing tables, nested tables and a rocking chair, with each taking you through the process step-by-step, aided by explanatory photographs and diagrams.

■ Paperback ■ 128 pages ■ 200 colour photographs and 112 drawings

Volume Two

MAKING Chairs & Tables



The DORCHESTER heads the extensive R&L range and is designed for the fisticulous craftsman. Top quality blades, American Black Walnut handles and solid brass screws are all individually inspected and assembled to produce tools of superior balance, weight and finish.

- No. 570 Handsaw - fully taper ground; skew-back blade with broasted toothline and bevel sharpened teeth. 20", 22", 24" and 26" available.
- No. 580 Tenon saw - heavy polished brass back. Bevel sharpened teeth. 8", 10", 12" and 14" available.
- No. 590 Dovetail saw - heavy polished brass back with 26 gauge steel blade. 8" and 10" x 21pt available.
- No. 600 Gents saw - polished brass back with 26 gauge steel blade. Brass ferrule on turned handle. 6", 7" and 8" x 21pt available.

A TRADITION OF HAND-CRAFTED EXCELLENCE



For a colour brochure of our full range, contact:

E.T. ROBERTS & LEE

Dun Works, 1b Graeme Road, Enfield, Middlesex EN1 3UL
Telephone: 0208 363 6452 Fax: 0208 804 1102

WEALDEN

Experience the best mail order service for router cutters today!

Our mail order catalogue is packed with technical information, tips and illustrations on our range of over 770 cutters with many unique items.



Visit our website
www.wealdentool.com

Order your FREE copy, call our FREEfone ordering line **0800 328 4183**, fax on 07000 564636, email sales@wealdentool.com or return the coupon by Freepost

Please send me a **FREE** copy of the new Wealden catalogue.

Name _____

Address _____

Postcode _____

Reply to: Wealden Tool Company, Dept FC

Replies from UK: FREEPOST TN2385, Tonbridge, Kent TN12 5BR

Overseas replies to: 31 Branbridges Industrial Estate, East Peckham, Kent TN12 5HF (tel. 44 1622 872723)

To advertise in

furniture & cabinet MAKING

call Dan on 01273 402826

or email:

daniell@thegmcgroup.com

Schnitzlerwerkzeuge Outils pour sculpteurs Woodcarving Tools



pfeil
www.pfeiltools.ch

F&C Classics

F&C Classics Series 6 No. 6

Set in stone



In the churchyard of St John sub Castro, overlooking the River Ouse and its water meadows at Lewes, East Sussex, is the last resting place of Mark Sharp, a carpenter who died in 1747. His headstone is carved with a stirring scene of the Last Trump, while the footstone has this famous composition of woodworking tools on a panel only 425 x 317mm (16½ x 12½in).

Although not shown to any consistent scale, most of the tools are easy to recognise. The least familiar are the two precursors of the spirit level: the T-shaped plumb level – right of centre – for horizontal surfaces, and the rectangular plumb board or plumb rule – partly visible behind the level – for verticals.

Both are used by suspending a plumb line from the top, and both have an egg-shaped opening near the bottom to accommodate the plumb bob. At the top, behind the dividers, is a bevel – probably not a sliding bevel at this date – with its blade almost completely retracted.

A gimlet is shown in front of the try square, and the damaged object between the shell auger and the hatchet may be a second gimlet. There is no brace – the auger, gimlet and bradawl being the preferred boring tools at this time. The gouge and chisel both have the plain tapered handle usual during this period, but the mallet, handsaw and try plane are all similar to more recent types.

The custom of decorating tombs with the tools of the occupant's trade goes back to classical antiquity, and its occasional use in the 18th and 19th century may well have been a conscious revival of ancient practice.

Mark Sharp's tombstone is not the only example of this. In Oldham, Lancashire, a mill engineer's tomb is surmounted by a granite obelisk with a little beam engine neatly carved on one side. Here, the combination of ancient Egyptian architecture and the white heat of 19th-century technology creates a pleasantly surreal effect.

Stephen Haynes



To advertise on these pages,
please contact Juliet Lamble on 01548 531845

SOURCES FOR COURSES

Woodworking Courses

at the

Ferrers Centre for Arts and Crafts

one and two day courses for all abilities
for more details contact

Andrew Dumolo

The Ferrers Centre, Staunton Harold
Ashby de la Zouch
Leics LE65 1RU
01332 862707

Australian School of Fine Furniture

FULLY ACCREDITED INCLUDING PROFESSIONAL TRAINING IN DESIGN, MAKING AND BUSINESS MANAGEMENT.
FOR INFORMATION:
EMAIL: INFO@ASFF.COM.AU
WEB: WWW.ASFF.COM.AU
+61 3 6331 0288

AUSTRALIA'S MOST COMPREHENSIVE 2 YEAR DIPLOMA COURSE IN DESIGNING AND MAKING FINE FURNITURE OFFERED IN THE FORESTED ISLAND STATE OF TASMANIA. NEXT INTAKE JANUARY 2004.



ROUTING COURSES

One or two day routing courses with full instruction on a wide range of routing products.

AUSTIN EAMES

Plus Active Precinct, Party Lane, Wrexham, Clwyd, LL11 2UR. Contact: Peter or Richard Eames on 01978 261065

CHAVET SUPPLIES ACADEMY

The Mill, Millers Dale, Nr Buxton, Derbyshire SK17 8EN. Contact: Eve Middleton on 01298 871636

CORNWALL'S TELFORD COLLEGE

Crown Tce, Telford, Shropshire, TF1 2HZ. Contact: Gregor Allen on 0193 315 7336

ESAC LTD

185 Desborough Road, High Wycombe, Bucks, HP11 2DN. Contact: Cliff Poyner on 01494 462121 or 01494 825200

WEATHPORT TALBURY COLLEGE

Derry-Isle Rd, Neath, Wales, SA10 7TR. Contact: Clive Ball on 01839 648036

PARKDALE FURNITURE PROJECT

Bomber Craft Centre, Units 2-4, Kingsland Rd, Halesowen, West Midlands, HP1 1BD. Contact: Simon Lamble on 01442 413194

HOP SUTTONS WORKSHOP

14 St Georges Avenue, Herne Bay, Kent, CT6 8JU. Contact: Colin Seale or John Barden on 01732 773145 or 01227 373880

www.trendmachinery.co.uk/courses routing technology

Sponsored by
trend

Barstow Waterhouse Peripatetic Teachers of French Polishing



- Probably the best French Polishing teachers in the country.
- Need a course on French polishing? Too far away? Save the time and trouble by inviting us to teach you at your choice of venue.
- Winchester - we run two, one week summer courses.
- Our workshops in Cheshire - we continue to offer two day, one week & longer courses all year round at our established workshops in Cheshire.

For details of courses or materials contact Philippa Barstow or Alan Waterhouse on:

Tel/Fax: 01457 763433

Unit C, Bee Cross Industrial Park, Old Road, Merton, Chester SK14 8NE
e-mail: philippa@frenchpolishinstitute.co.uk Mobile: 07801 413153

THE CHIPPENDALE INTERNATIONAL SCHOOL OF FURNITURE



Professional Course in Furniture Design, Making and Restoration

Our unique 30-week course is designed to give students the skills and knowledge to set up their own businesses or to progress to positions in professional workshops, the arts and museums.

From fine classic pieces to bespoke commissions, students on our intensive course gain hands-on experience in a stimulating professional workshop environment in the heart of Scottish countryside, near the vibrant city of Edinburgh.

A prospectus for the course commencing October 2003, is available from the Principal.

The Chippendale School of Furniture, Gifford, East Lothian, EH41 4JA

Tel: 01620 810 680 Fax: 701

Email: info@chippendale.co.uk or visit: www.chippendale.co.uk

PETER SHEPHERD SCHOOL OF FURNITURE

ALBION SAW MILLS
BURNLEY ROAD EAST
WATERFOOT
ROSSENDALE BB4 9DF
TEL: 01706 221801
EMAIL:

shepherd@furnitureschool.fsnet.co.uk

Full and Part Time Courses in
Cabinet Making Basic to
Fine Furniture
Restoration and Conservation
of Period Furniture
Including
Wood Turning,
Wood Carving, Gilding
Finishing & Polishing,
Drawing & Designing

Mon-Sat 9.00am to 4.00pm
Wednesday Evening 6.00pm to 9.00pm
Visit our Website
www.furnitureschool.fsnet.co.uk



To advertise on these pages,
please contact Juliet Lumley on 01548 531845

SOURCES FOR COURSES

Christopher Faulkner

Fine Furniture Courses

www.chrisfaulkner.co.uk

Tel: +44 (0)1803 862861

JOHN LLOYD

Antique Furniture Restoration & Cabinet-Making
Traditional Hand Finishing

Intensive personal tuition for small groups

www.johnlloydfinefurniture.co.uk

Telephone: +44 (0)1442 480388 • Email: lloyd@btconnect.com

A NEW PROFESSION FOR YOU

Be trained as an antique furniture restorer by Bruce Lackhurst and Jane Thomas who bring over fifty years restoration experience to this internationally respected course.

Freecall 0800 915 42 41 or Email: info@woodwise.net.co.uk for an information sheet and prospectus of this intensive one year course which includes cabinet making and wood finishing training to the highest professional level (previous craft qualifications are not essential for entry).

You can also visit the large informative web site at www.bracealuckhurst.co.uk where you will find this course and in addition, details of various short courses currently programmed at the school which range from furniture design through cabinet making to traditional wood finishing techniques.

WHETHER FOR PLEASURE OR PROFIT -
IT PAYS TO BE TRAINED BY THE PROFESSIONALS.

The Little Surrenden Workshops,
Bettersden, Kent TN26 3BG
Established 1976



Furniture Making Courses

With
Michael Scott

Parmham Graduate offers personal tuition in all aspects of designing and making furniture.

3 students only.
Shortlength courses with individual tuition.
Accommodation available.

Details:
Michael Scott Furniture
Pope's, Shillingford, Nr. Brixton,
Tiverton, Devon EX16 9EP.
Telephone: 01398 331999
Email: ms@michaelscott.co.uk
www.michaelscott.co.uk

Midland School of French Polishing & Furniture Restoration

Continuing Craftsmanship since 1932

"Learn the Trade"

We specialize in the teaching
of traditional hand-

work courses ranging from
4 days to 6 months, with a maximum
of three students at any one time.

S.A.F to G.R., Langley,
The Garage Workshop, Main Street,
Bathley, Newark, Notts, NG21 6DA
Tel/Fax: 01636 678261 (01636)
01636 803340 (01636)
grail@juno.com www.saf.org.uk

CHOOSE THE COURSE PROFESSIONALS USE

RAMON WESTON

Tutors students of any level of
experience (max 2 students) in
Cabinet Making, Woodmachining
& Power Tool Skills.
Specialising in the Leigh Router
Joinery Systems.

Sales of selected high quality
Machines, Tools, & Jigs

- Festool

- Leigh Router Joinery System

- Bosch

Details From:

Ramon Weston Craftworkshops, Flimbypeak,
Days Lane, Kingston Lacy, Wiltshire SN15 8PA
Tel/Fax: 01249 750 411
Email: ramonwestoncraftworkshops@flimbypeak.freeserve.co.uk

Furniture Making with DAVID CHARLESWORTH

In professional workshop.

Intensive Tuition in hand
and machine skills.

Maximum of FOUR students:
Long course September to June
Single weeks June to August

Send SAE to:

David Charlesworth Furniture Maker
Hinton Manor Workshop, Hinton,
Bideford, Devon EX9 6BL

Tel: +44(0) 01237 441288

www.davidcharlesworth.co.uk
E-mail: davidcharf@aol.com

LEEDS COLLEGE OF ART & DESIGN

Full Time Courses:-

* BA (HONS) FURNITURE

* BTEC NATIONAL DIPLOMA in FURNITURE MAKING and RESTORATION

* BTEC HIGHER NATIONAL DIPLOMA in FURNITURE RESTORATION or FURNITURE DESIGNER/MAKER

Part-time and Evening Courses in :-

Furniture Making, Woodfinishing, Upholstery, Woodcarving,
Furniture Restoration and Computer Aided Drawing

Purpose built workshops/studios equipped with the most up-to-date resources in
the north - tools and materials supplied - possible £3,000 residential
award bursary available to students moving to Leeds to study at ND level

For details of the courses above and other courses at the college,
or to arrange a visit, contact the Student Services Team
on Leeds (0113) 2028000





Advertisement on these pages.
Please contact Julie Lambie at BTM&R Services.

TIMBER STORES

NORTH HEIGHAM SAWMILLS LTD

HARDWOOD SPECIALISTS

BURRY AND FIGURED BOARDS AS AVAILABLE.
50 DIFFERENT SPECIES IN SMALLER PIECES
MATCHING BOARDS BY THE LOG
VENEERS, INLAYS AND BOWL BLANKS
CUSTOMERS ARE WELCOME TO BROWSE AND SELF SELECT

For monthly special offers see website

A4 SAE for catalogue to: PADDOCK STREET, OFF
BARKER STREET, NORWICH, NORFOLK NR2 4TW
TEL: 01603 622978 FAX: 01603 766323
www.northheighamsawmills.co.uk



DECORATIVE VENEERS



An extensive range of species. Commercial & Exotic.
Always in stock.

BUY DIRECT

from the Northwest's leading veneer producer



REIF & SON LTD

Unit 8, Blue Chip Business Park, Atlantic Street,
Broadheath, Altrincham, Cheshire WA14 5DD

Tel: 0161 927 9192 • Fax: 0161 927 9193

Sheffield Timber Company Limited

UNIT 2, 62 Broadoaks, Sheffield, S9 3HJ

WE CAN SUPPLY

- Oak • Ash • Southern Yellow Pine
- Walnut • Cherry • Maple • Birch
- Veneered Sheet Materials

WE OFFER SAWN OR MACHINED TIMBERS

★ Far East/African/
Nth American Hardwoods.
★ Also over 50 various
hardwood and softwood sections.

★ Mobile saw milling services available.

We deliver worldwide



Freephone: 0800 358 9952 Fax: 0114 256 2378

Solid Panels

Made from Pine and Spruce

Dried to 8% humidity,

D3 glue,

4" x 8" or cut to size,

Up to 180 grade sanding

Also looking for agents

www.akcalar.com

info@akcalar.com

ENGLISH OAK APPLE PEAR CHERRY ASH YEW CHESTNUT

B.H.P. CRAFTWOODS & WOODCRAFTS

TIMBERS FOR WOODTURNERS,
WOODCARVERS & WOODWORKERS
KILN DRIED IN OUR OWN KILN

BLANKS • BOARDS • SQUARES
LATHES - SOLO 1000 • ASHLEY ILES TOOLS
LIBERON WAXES ETC

COURSES BY THE HOUR,
DEMONSTRATIONS EVERY SATURDAY
TURNED & CARVED ITEMS EXHIBITED
SHOWROOM & TIMBER DEPARTMENT

CLOSED: WEDNESDAY

OPEN: • MONDAY • TUESDAY • THURSDAY • FRIDAY
• SATURDAY 10am - 5pm

RAINBOWS END, MAYES LANE,
SANDON, CHELMSFORD, ESSEX CM2 7RW
TELEPHONE: 01245 227229
FAX: 01245 227231

SPALTED BEECH	MAHOGANY	BRAZILIAN SANTO	WALNUT	ENGLISH OAK	APPLE	PEAR	CHERRY	ASH	YEW	CHESTNUT	HORNBEAM	ELM	AGRA	RUBINGA	SAPELE	MAKORE
---------------	----------	-----------------	--------	-------------	-------	------	--------	-----	-----	----------	----------	-----	------	---------	--------	--------



To advertise on these pages
please contact **Media Sales** on 0208 633 3444

T I M B E R S T O R E S

INTERESTING TIMBERS

EXTENSIVE RANGE OF ENGLISH GROWN HARDWOOD TIMBERS

Air or kiln dried.

Quarter Sawn Oak usually available.

Turning and carving blanks, burrs, etc. also stocked.
Mail Order available - No order too large or small.

Send for details (s.a.e. please) or come and see us (please ring first). We'll ensure a helpful personal service.

DAVID and CATHERINE SIMMONDS,

Wells Road, Emborough (7), Bath BA3 4SP

Tel: 01761 241333 Website: www.interestingtimbers.co.uk

Capital Crispin Veneer

FOR THE VERY BEST IN NATURAL WOOD VENEERS

Capital Veneer Co. and

J Crispin & Sons have merged

their businesses and are able to offer a vast range of decorative and constructional veneers from the world over.

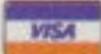
Stock list and illustrated list of inlay lines, bandings and marquetry available on request.

Unit 12, Bow Industrial Park,

Carpenters Road, London E15 2DZ

Tel: 020 8525 0300 Fax: 020 8525 0070

E-mail: capveneer@aol.com



NORTH WALES

Good variety of English and

European hardwoods available.

Oak, Chestnut, Ash, Elm and Walnut.
Also Brown Oak, Cherry, Sycamore and Yew, etc.

Traditional hardwood floors supplied in Brown Oak, Elm etc.

Fresh sawn timber supplied to order

Kilning, sawing and machining service.

No VAT

Delivery anywhere in the UK.

Phone/Fax

01745 860376



ORIGINAL MARQUETRY

"THE ANTIQUE TRADITION OF INLAID WOOD WORKS"

FRET SAW CUTTING SPECIALISTS®

Over 130 Marquetry Panels, 60 Veneers,

150 Lines & Bandings, 25 Brass Inlay Strips,

Ebony, Mother of Pearl, Chess Boards & Pieces

Marquetry Panel Manufacturers & Fine Brass

Box Components, Restoration, Reproduction,

FRET WORK & ONE OFF Made To Your Designs.

World Wide Mail Order Service

Send or Phone for a Free Catalogue

143 Bishopstoke Road, Westbury On Trym,

Bristol BS10 5AF

Tel/Fax: 0117 9442640

www.originalmarquetry.co.uk

Email: info@originalmarquetry.co.uk



T I M B E R L I N E

Suppliers of fine and rare timbers

Veneers and inlays

Tools and sundries

For the craftsman in wood

Unit 7, Monday Industrial Estate,

58-66 Morley Road, Tonbridge, Kent TN9 1RP

Tel: 01732 358626 Fax: 01732 358214

[email: exotic.hardwoods@virgin.net](mailto:exotic.hardwoods@virgin.net)

S.L. Hardwoods

QUALITY TIMBER STOCKIST

390 Sydenham Road, Croydon, CR0 2EA

Tel: 0800 731 6345 Fax: 0208 683 0404

Cutting Lists Prepared

Sacks of Off-cuts £38.00

Sawn & P.A.R.

Pallets of Off-cuts from £100

Sheet Materials

NEW COLOUR CATALOGUE NOW OUT!

Turning & Carving Blanks

downloaded from the web-site

Crown Tools

Microclene Filters now in stock!

Veneers

Oak, Ash, Mahogany, Maple, Iron, Wenge, Sheoak, Walnut, Cherry, Birch, Tulipwood & many more!

Books & Videos


MAIL ORDER


NATIONAL DELIVERY



FACTORY SHOP

ORDER ON-LINE!
www.slhardwoods.co.uk



To advertise in these pages,
please contact Juliet Lamble on 01548 531845

CLASSIFIED

**DISTRIBUTORS OF
WOODFINISHING MATERIALS
TO TRADE & RETAIL**

RICHARD BARRY

For great offers on great
woodworking products why not
visit our new website at
www.richardbarry.co.uk

Woodfinishes
French Polishes
Stains & Waxes
Industrial Lacquers
Abrasives & Adhesives

Cabinet Fittings
Wood Components
Power & Hand Tools
Safety Products
Spray Systems

ONLY £29.95
W.H.R. STOKES LTD.

48" T bar
42" cap

RECORD SASH CLAMP

Richard Barry Ltd, Unit 1, 2 Chapel Place
North Street, Portslade, East Sussex
Tel: 01273 419471 Fax: 01273 421925
Email: sales@richardbarry.co.uk

WE OFFER A FAST MAIL ORDER SERVICE
OPEN 8 AM - 5PM MON-FRI

**Buckinghamshire Chilterns
UNIVERSITY COLLEGE**

Courses

- HND Furniture Studies
- Bsc (Hons) Furniture Manufacture & Design
- MA Furniture Design & Technology
- BA (Hons) Applied Furniture Studies
- BA (Hons) Furniture Design & Craftsmanship
- BA (Hons) Contemporary Furniture Design
- BA (Hons) Furniture Conservation & Restoration

FACULTY OF DESIGN

With a large number of specialist furniture courses, you are sure to find a course to fit your career plans.

For a copy of our Faculty Brochure and application details:-
01494 603054 Fax 01494 461196
Email: mrober@bcuc.ac.uk
or write to:

Admissions Officer, Faculty of Design, Buckinghamshire Chilterns University College, Queen Alexandra Road, High Wycombe, Bucks HP11 2JZ

Special offer

To sell those unwanted items just fill in the coupon

**furniture
& cabinet MAKING**

CLASSIFIEDS

(private sales only) Just £23.50, £1.17 a word thereafter.

Send a cheque or postal order together with the coupon or wording and contact address to:
GMC Publications Ltd, 86 High Street, Lewes, East Sussex BN7 1XN

To advertise in Furniture & Cabinetmaking please contact Juliet Lamble
on 01548 531845 or email julietl@thegmcgroup.com



POWERTEK

Your No.1 Tools Supplier



Massive Stocks
Over 10,000 items in stock
Ready to ship to you!
LOW LOW Prices
Our volume buying power
enables us to pass lower
prices straight on to you!
Quality Products
We stock the best quality
products by all the
leading brand names.

14 Day Money Back Guarantee

We want 90% of our customers
you are 100% satisfied!

Fast Delivery

Most orders despatched
same day for a quick and
efficient service. Same
day delivery available.

How to order...

Call Now
01923 250295

Fax to
01923 818219

Mail to
Powertek
20 Market Street
Watford
Herts WD18 0PD

E-Mail to
sales@diy-tools.com

Web
http://DIYtools.com

Tel: 01923 238111

Showrooms at:

Powertek
20 Market Street
Watford
Herts WD18 0PD
01923 250295

Streets
11 East Street
Harrow
Herts HA9 1AB
Tel: 020 9249 2460

All items include VAT @ 17.5%
UK carriage on small
packages U.K. mainland
Over / Large Heavy
Machinery to be advised
Not payment methods
accepted
Delivery back guarantee covers
poor return, damaged and
unpacked. Carriage is non-
refundable. Prices are correct at
time of going to press but are
subject to change. Pictures are
not intended to represent
actual products. E&OE.

To Order By Telephone Call

routers	cordless drills	circular saws	sanders
DEWALT DWE610 1200W 12 TCT Router £315	DEWALT DW911 18V Cordless Drill Twin Pack £79	DEWALT DWS520 165mm Circular Saw £139	Bosch GRS2000ME 1/5 Orbit Sander £122
New Bosch GOF800CE + 12 TCT £185	Radio Charger £187	Dewalt DWE570 214mm Saw £124	Bosch GSG2000 Finishing Orbital Sander £135
New Bosch GOF1000CE + 12 TCT £205	Charging Unit 1.2Ah £187	Dewalt DW355 45mm Cut Trimmer, case with 1.3Ah £145	Bosch GSS16A 1/4in Palm Sander £59
New Bosch GOF800CE + 12 TCT £289	18V Li-Ion 1.3Ah £187	Dewalt DWE570 18mm Saw £124	Bosch GEX160AC Random Orbital £138
Dewalt DW612 750Watt £120	18V Li-Ion 1.5Ah £187	Dewalt DW355 18mm Saw £124	Dewalt DW824 1/2 Sheet Orbital £175
Dewalt DW815 800W + 8 TCT Cutter £120	18V Li-Ion 1.7Ah £187	Dewalt DW355 1/2 Sheet Orbital £175	Dewalt DW824 1/3 Sheet Orbital £175
Dewalt DW821EK 1000W VS + 12 TCT £170	Dewalt DW821EK 18V Cordless Drill (2 Batt) £187	Dewalt DW355 1/3 Sheet Orbital £175	Dewalt DW824 H.D. 1/4" Palm Sander £20
Dewalt DW624 1/2" 1000W Router £159	Dewalt DW821EK 18V Cordless Drill (2 Batt) £187	Dewalt DW355 1/4 Sheet Orbital £175	Dewalt DW824 H.D. Random Orbital £175
Dewalt DW828K 1000W VS + FHA £230	Dewalt DW824EK 18V Cordless Drill (2 Batt) £187	Makita 9038 1/3 Orbital Sander £59	Makita 9038 1/3 Orbital Sander £59
Makita 3612C 1850W VSB + Case £239	Dewalt DW824EK 18V Cordless Drill (2 Batt) £187	Makita 9038 180mm Circular Saw £125	Makita 9045S 1/2 Sheet Orbital Sander £60
Hilitchi MT2V 1800W + Case + 12 TCT £220	Dewalt DW824EK 18V Cordless Drill (2 Batt) £187	Makita 9038 180mm Circular Saw £125	Makita 9045S 1/4 Sheet Orbital Sander £60
Trend T3EK 550W Router £39	Dewalt DW824EK 18V Cordless Drill (2 Batt) £187	Makita 9038 235mm Circular Saw £175	Makita 90521 5" Orbital Sander £60
Trend T5EK 850W Router Inc. Case £140	Dewalt DW824EK 18V Cordless Drill (2 Batt) £187	Makita 9038 235mm Circular Saw £175	
Trend T6EK 1800W Router £249	Dewalt DW824EK 18V Cordless Drill (2 Batt) £187	Makita 9038 255mm Circular Saw £175	
Trend STT Workshop Kit £143	Dewalt DW824EK 18V Cordless Drill (2 Batt) £187	Makita 9038 Circular Saw £175	
Trend CD1000 Dovetail Jig £87	Dewalt DW824EK 18V Cordless Drill (2 Batt) £187	Skill 5766 Circular Saw + CASE £68	
Trend CD1000 Dovetail Jig £108	Dewalt DW824EK 18V Cordless Drill (2 Batt) £187	Makita KGP55 Circular Saw + Q Rail £245	
FE F42040 Router Inc. 600Watt £85	Dewalt DW824EK 18V Cordless Drill (2 Batt) £187	Hilitchi CT-714 £194	
CRAZY OFFERS			
New Bosch 24V Combi Twin pack (GST+GSB/GKS+GSD) £430			
DW8250EK + Router Table WO13 inc 12 pc TCT Cutter set & Fine Height Adjuster £325			
Dewalt DW612H + NEW HQ13 inc 12pc TCT Cutter set + FNA £220			
Dewalt DW813 Router + NEW Champero WO12 Router Table £185			
Dewalt DW205 Percussion Drill £69			
Hilitchi MT2V Router + Champero WO13 Router Table £294			
router tables	flip over saws	jigsaws	sawbenches
DEWALT DCE3000 Router Table £399	Dewalt Dw742 £590	DEWALT DW321K £130	BOSCH GBS 100A £249
NewWt WC12-435mm/3400mm Table £49	Dewalt Dw743 £599	Dewalt DW401 3" Banding Frame £189	Bosch GB 5 75AE + Case + Handle
NewWt WC15-550mm/3400mm Table £69	Bosch Becker KGT 500 £694	Dewalt DW450 + Banding Frame £199	Bosch GB 5160A 4" + 20 Batt
Record Router Table RP155 £249		Makita 9401B 4" INO-Bit Sander £130	Dewalt DW450 + Banding Frame £199
NEW Makita Router Table £99		Makita 9403A 4" Variable Speed £178	Makita 9401B H.D. 2" Belt Sander £150
Trend SRT Router Table £87		Makita 9403A 4" Belt Sander £178	Makita 9411 2" Belt Sander £125
CRM1K2 + FIXING PLATE £150			Makita 9403A 4" Belt Sander £125
Driper 1200W Router £49.95	Dewalt Dw742 £590	PRICE PLEDGE	SPECIAL OFFERS
Driper 800W Biscuit Joiner £55.00	Dewalt Dw743 £599	If you find it cheaper - CALL US	Bosch PSE 180T Scissor+Bits £59.95
Driper #60mm Fret Saw £72.95	Bosch Becker KGT 500 £694	We aim to beat all prices	Bosch PDA 240E Delta Sander £49.95
Driper 150mm Bench Grinder £24.95			Hilitchi DV12DV £145.95
bandsaws	radial arm saws	planers	Hilitchi DS140F + 3 batteries £105.00
Dewalt DW728 2 Speed 1000W £222	DEWALT DWA730 + LEG STAND £920	Bosch PHO10-82 Planer + Dust Bag £48	Hilitchi QB36E Dust Extractor £79.95
Dewalt DW728 Variable Speed £350	Dewalt DW721 with Leg Stand £1215	Dewalt DW777 1.5m Out £143	Makita 9037H00
DW828 4" Bandsaw + Legs + Power £390	Dewalt DW728 with Leg Stand £1215	Dewalt DW78K Planer Kit £175	Rotodip RR 275 KR £30.00
NEW 4" Record Bandsaw RP858 £75	Dewalt DW728R Router Bracket For RAS £70	Makita 1902 82mm 550W Planer £87	Driper 82MM Planer £49.95
NEW Record RS858 10 £160	Chernwood RAS - WO200 SCREWCLUT £490	Makita 1923H 82mm 180W Planer £340	Driper 5-Speed Bench Drill £69.00
NEW Record RP858 12 £250		Hilitchi P250K 220v + 2 Batt £189	Dewalt DW820K 7.2v Cordless £55.00
Electric BA5315 - 1000W £129			Vim S26 Work mate
Nity 612 + Legs Stand + Router £159		planer thick.	trend
Schepach BAS100 3 Bandsaw + Stand £340		A remarkable Planer Thick saw with nominal 10" x 5" capacity. Price includes base unit £720	Special Package Offer
biscuit jointers	mitre saws	£720	Trend P1000 10" x 5" Capacity £150
DEWALT DW932K £185	DEWALT DW706 + LEG STAND £590	Bosch DW733 1800W Thickener £355	66 Combi Worktop Jig £65
New Bosch GPF 20A + 500 Biscuts £165	Bosch GPS35E Tenon Saw £529	Dewalt DW735 Planer Thickener £355	661 Combi Worktop Jig £651
Dewalt DW82K + 1000 Biscuts £105	Dewalt DW701 Electronic Circular £339	Dewalt DW735 Planer Thickener £355	Combi Worktop Jig 180 £250
Dewalt DW82K 100% List Price £165	Dewalt DW703 250mm Compound £335	Record DW30 12" x 5" £289	Mige Jig £165
Makita 3801 + 1000 Biscuts £107	Dewalt DW707 300mm Double Bevel £445	Record RP270 12" x 6" £399	Star Jig A ORB £131
New Trend T20K £134	Dewalt DW707 210mm x 8" STAND £339	Hilti 439 8" x 6" 1100W + Stand £610	Star Edge Jig £125
Makita 2040D Mini Dewi ER £320	Dewalt DW707 280mm Induction £329	Hilti 437 £557	Makita MC-E £66
Makita LWT20 + 500 Biscuts £215	Dewalt DW711 280mm Table Top £339	Sheppach HM3300 - Base £720	Makita MC-E Router Table £131
Mortisers	Dewalt DW712 Blad Compound £449	Electric Becker HC260M 10" x 5" £999	Makita MC-E Router Table £131
Multico PM120 CW 1/4 38 12 Chisel £299	Dewalt DW517K2 24V Cordless £189	NEW Makita MC-E 160 + Fretsaw £435	TREDFP Dust Extractor £165
Multico PM120 CW 1/4 38 12 Chisel £345	Dewalt DE3023 Stand £175	SP planer thicknesser £106	Snappy Tr1 1 Set 30 Pcs £34
Multico PM20 + Star Head + Workpiece £165	Makita LS1040 10" MITER SAW £189	SP compound m.s. £114	Snappy Tr2 2 Set 80 Pcs £60
Charmwood W300 Moving Table £550	Makita LS1040 10" MITER SAW £189	SP 0.0517 Table saw £99	New 100g carbide Jointing Jig £158
Charmwood W300 3 CHISELS £122	Hilitchi C10FCB Mitre Saw £189		New Router Table Jig £165
Record RPM75 CW 1/4 38 12 Chisel £179	Electric Becker HC260M 10" x 5" £999		NEW Router Table Jig £165
Kily Mortiser £185	Electric Becker HC260M 10" x 5" £999		MIT JG Mortise Mixer £142.00
All items include VAT @ 17.5%	Dewalt DW705 Super System + Sp500 £574		
UK carriage on small packages U.K. mainland Only / Large Heavy Machinery to be advised Not payment methods accepted Delivery back guarantee covers poor return, damaged and unopened. Carriage is non-refundable. Prices are correct at time of going to press but are subject to change. Pictures are not intended to represent actual products. E&OE.			

Official supplier selected from major corporations, educational bodies & government departments

Showrooms open 8.30-5.30pm Monday-Saturday AD8810

01923 250295

UK's FIRST & BEST ONLINE TOOL STORE **DIYTOOLS.COM**



To advertise on these pages,
please contact Juliet Lambie on 01548 671646

CLASSIFIED

Marshall Brass

REFURBISH OLD CASTORS & REPAIR ANY
METALWORK MATCHING/COPYING SERVICE
WE CAN ARRANGE COLLECTION
NEW 320 PAGE CATALOGUE, OF PERIOD
FURNITURE FITTINGS AVAILABLE AT £12

A well established family business. Our patterns have been copied from carefully selected originals and made to a very high standard of finish. Marshall Brass will endeavour to help with any metal work problem.

Please write to us with details.

MARSHALL BRASS

Keeling Hall Road, Foulsham, Dereham, Norfolk NR20 5PR

Tel: 01362 684105 Fax: 01362 684280

E-mail: admin@marshall-brass.com

www.marshall-brass.com

'NO MONEY IN MY POCKET' by DAVID COLEMAN

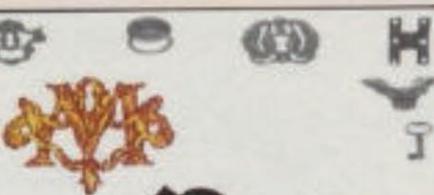
A fascinating account of this master cabinet maker's life, from his Maples apprenticeship to the making of 'antiques' in his Essex workshop.
200 pages, 32 photographs

Now £3.99

POST FREE

from Ann Coleman

Elm Cottage, Further Ford End
Clavering, Saffron Walden CB11 4SG



*Is there
a group
near you?*



Getting along to one of our affiliated groups is a convenient and inexpensive way to learn marquetry.

For details contact our secretary, Peter Metcalfe or check out our website - marquetry.org

Aylesbury, Bexley, Broadlands, Chelmsford, Cotswold, Croydon, East Dorset, Harefield, Harpenden, Harrow, Humberside, Ipswich, Leicester, Meopham, Mosterton, Redbridge, Scotland, Sproughton, Stafford, St Albans, Sutton Coldfield, Thames Ditton, Thurrock, Tunbridge Wells, West Kent, West Wales

Peter Metcalfe

Secretary of The Marquetry Society

33 Marchwood Avenue, Stannington,

Sheffield, S6 5LG

Tel: 0114 233 5105

E-mail: peter@marquetry.freeserve.co.uk

Premium Bandsaw Blades That Cut Accurately and Last Longer - Or Your Money Back*



A. Farlow MEng:
technical sales
desk and
order fulfillment
operations.



Cut more accurately: Teeth are milled to avoid burrs, and are set precisely by state-of-the-art AutoTchuck machinery.

Last longer to cost you less: Reduced wear through higher-than-average tooth hardness (HRC 60-61) plus tooth shapes removing more of each tooth edge in the cutting action.

Crack resistant: Highest specification fine microtwin steel, precision welded to eliminate embrittling weld impurities.

Run truer and bump free: Ultra-straight setup, welded by a computer to ensure its precision strip welding (P&D), and 0° deflection with achieving the strongest, precisely aligned welds.

***Guaranteed:** Try 3 blades and if you don't feel they are better value than ours, return the unused part of your order within 30 days for a full refund. You get to keep the first 2 blades and any furniture free as a "Thank You" for trying us; no questions asked!

"The task was made much easier than I had a right to expect thanks to the quality of your bandsaw blades. Congratulations on your product's quality. I have no hesitation in recommending your blades to my Woodturning students." (Ted Farlow, Ted Farlow School of Woodturning, with ref. to cutting through oak slabs soaked for years in sea water)

Price & Discount Examples:

Prices include VAT + UK Post & Packaging

WIDTM'S:	1/4"	3/8"	1/2"	5/8"	3/4"
56.5"	£6.99	£7.00	£7.21	-	-
73"	£7.42	£7.55	£7.81	-	-
82.5"	£7.81	£7.92	£8.02	£8.94	£11.40
88.90.5"	£7.81	£7.92	£8.26	£10.31	£11.80
96"	£7.96	£8.20	£8.43	£10.50	£11.81
112"	£8.44	£8.69	£9.06	£11.35	£12.84
133"	£9.56	£9.85	£10.34	£12.91	£14.49

Order size: 4 6 10 14 18

Discount: 8% 12% 15% 18% 20%

For availability, prices and discounts not shown, call 0161 430 8006

0800 328 0000. Blades available in any length, and in widths from

5/8" to 1" or a wide range of width-to-depth ratios.

We can supply tools. Prices are valid until end of 2003. T&Cs

FREE advice on blade selection

FREE UK P&P (equivalent to 5% off)

To order, call **08702 252337**

*Quote "Ref GFC-803c" to qualify for discounts and free information.

Dure-Edge

Office Address (for correspondence only):

21 Station Rd • Woodley

Stockport • SK6 1HN

fax: 0161 430 8006

Open open 10am-4pm

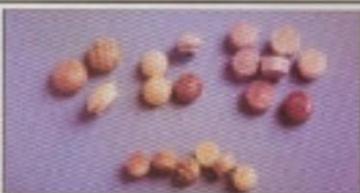


ref: GFC-803c



To advertise in these pages
please contact Juliet Lamble on 01943 531365

CLASSIFIED



**Suppliers of beautiful wood screw covers in
Oak-Cherry-Pine-Ash-Beech-Maple
Walnut-Mahogany etc.**

*Give your woodwork the finishing touch
For information and free samples contact:*

PLUG IT DECORATIVE WOOD PRODUCTS
SEQUOIA, ARGYLL ROAD, KILCREGGAN, SCOTLAND G84 0JW
PHONE/FAX 01436 842669 EMAIL: mdplugit@aol.com

ART VENEERS

*Comprehensive
manual/catalogue £2.95*

*Collectors set of 50 sample
veneers plus catalogue £13.25*

Prices include delivery to UK addresses



Send to:
ART VENEERS, ...The Mail Order Veneer Company
Art Veneers Co Ltd. Tel: 01638 712550
(PC 81)
Industrial Estate
Suffolk IP28 7AY
Fax: 01638 712330
sales@artveneers.co.uk
www.artveneers.co.uk

We specialise in

- Marquetry*
- Inlay motifs*
- Inlay bandings*
- Prepared veneer panels*
- Silver Leathers*
- Laser cutting*
- Books & brassware*
- Plans, Tools & Legs*
- Veneers*



By Appointment to
Her Majesty The Queen
Cabinetmakers
N.E.J Stevenson Ltd
Rugby

N.E.J. Stevenson are expanding their workshops in rural Warwickshire and require skilled craftsmen to actively contribute to the company's development of its couture furniture market.

Workshop Foreman

£22,000 per annum

A highly skilled craftsman and leader who is highly motivated to achieve agreed targets by developing and organising a team. You will be keen to contribute ideas to the company's development and become part of its future plans.

In addition to salary you will have the opportunity to join the company share scheme.

Furniture Makers

£20,000 per annum

Experienced makers who can achieve excellent results in both solid and veneered construction. You will be able to understand complex projects and solve practical problems.

You will want to be part of a team, achieving the highest standards.



Apply in writing to Mr Neil Stevenson,
Church Lawford Business Centre,
Limestone Hall Lane, Church Lawford, Rugby,
Warwickshire CV23 9HD
Email: neil@nejstevenson.co.uk
www.nejstevenson.co.uk

**THE LEADING SUPPLIERS OF
ANTIQUE AND QUALITY OLD
WOODWORKING TOOLS
FOR BOTH CRAFTSMEN AND
COLLECTORS IN THE COUNTRY**

VISIT OUR SUCCESSFUL WEBSITE FOR
CONSTANTLY CHANGING TOOLS FOR SALE
www.toolbazaar.co.uk

We also still produce a mail order list.
Contact us for a copy.

To advertise on these pages,
please contact Janet Lambie on 01548 531945

CLASSIFIED

You appreciate fine tools, we appreciate fine tools.
You use fine tools, we sell fine tools.

Work it out!

www.toolpost.co.uk 01235-810658

WORKSHOP, BRISTOL

Superbly equipped & professional.
Secure, light, dry. Rent own space
and use of machines. Suit self
employed skilled craftsman.
Matthew Smith 0117 924 3223

CLOCK BUILDING SUPPLIES

We have in stock the widest range of mechanical
and quartz clock movements, kits & case parts.
Local prices, fast delivery, & personal service

Martin H Dunn Ltd

The Clock Gallery, North Killingholme
North Lincolnshire, DN40 3JQ
Web: <http://www.clockshub.co.uk>
FREE PRINTED CATALOGUE
Showroom Open
Mon - Fri 10am - 4pm Sat 10am - 4pm
Tel: (0169) 540981

SHARE OF WORKSHOP

In North London, excellent
natural light, Felder machinery,
750sqft sharing with 1-2 other
makers on friendly estate.
£300-£400pm.
Andy 07814 026 728
or 020 8452 0065

A carefully chosen range of
abrasive sheets, discs
(self-adhesive and vecra),
delta triangles, belts,
rolls, & accessories from
the world's greatest
manufacturers.

VITEX

Flexible cloth-backed abrasive, made by VSM, anti-clog surface,
115mm wide, £2.80 per metre; 25m roll £54.

J-FLEX

Flexible cloth-backed abrasive, made by Klingspor, 100mm wide,
from £1.69 per metre; 50m roll - £59.15.

GRIP-A-DISC MINI DISCS

a flexible foam disc with Vitex cloth on one face, and on the
other side a layer of velour which adheres to special Velcro
backing pad. 2" discs £4.69 for 25; Backing pads: reduced to £6.

STANDARD MINI DISCS

stiff paper backing, aluminium oxide grit: 2" discs - from £2.80 for
25; 3" from £4.44 for 25

For free price list, including
tips on choosing & using
abrasives, please ring

01828 627124

THE OLD TOOL STORE

Suppliers of fine old woodworking
tools. Mail order list now available.
Overseas enquiries welcome.

Tel: (01790) 763406

Fax: (01790) 763311

www.oldtoolstore.com
roy@oldtoolstore.ltd.yo.co.uk

The Old Tool Store, East Kirkby,
Sleaford, Lincs. PE23 4BX

ANITA MARQUETRY LTD

Specialists in - bespoke inlays - coloured veneers
veneers & packs - shells - bandings -
motifs - boxes - gate boards - tools

All marquetry work

Emergency day delivery

info@marquetry.co.uk

www.marquetry.co.uk

T: +44(0)1597 425505 F: +44(0)1597 424484

WOODWORKING BENCH SPACES

to hire in West London. Use of
machinery and spray room. Would
suit woodworker, enthusiast,
woodturner etc.

Tel: Nick 020 8847 3535



AARONSON veneers

VEENEERS, MARQUETRY & BANDINGS

Huge stocks of VENEERS at competitive prices. Exclusive range of
MARQUETRY PANELS, INLAY BANDINGS & STRINGING
at low prices.

Please Phone/Fax or send for FREE Brochure:

56 DENNIS LANE STANMORE MIDDX HA7 4J

Phone/Fax: 0208 954 1555 www.veneers.org.uk



MAIL ORDER
NARROW BANDSAW BLADES
MANUFACTURED TO ANY LENGTH
PHONE NOW FOR IMMEDIATE QUOTATION
OR WRITE TO US FOR A PRICE LIST

TRUCUT

Spurside Saw Works, The Downs, Ross-on-Wye,
Herefordshire HR9 7TJ

Tel: 01989 769371 Fax: 01989 567360

43-44 Vallis Way

Badcocks, Frome,
Somerset

BA11 3BA

Victor Adams

UPPER ROOM BOOKS

Free catalogue issued covering out of print books on
Furniture and Cabinet Making.

Email: victoradams@vabooks.co.uk

Web: www.vabooks.co.uk

Tel: +44 (0) 1373 467125

Fax: +44 (0) 1373 467125

Mobile: 07813 667086



ADVERTISERS INDEX

Accimaster	BC	Jessada	42	Satin Hammer	69
Bogress	75	Jet Tools	46	SCM	77
Bruin	36	Jordan	75	Scott & Sorenson	82
D & M Tools	2030/31/48/59	KWT	45	Sedgewick	100
Datum Tools	81	Metabo	64	SK Promotions	55
Eisco	24	MITS	6	Southern Woodworking	69
ET Roberts	84	NIMA	45	Starkie & Starkie	84
G & M Tools	27	Old Tool Store	27	Thomas Flynn	11
Good Timber	81	Powertek	91	Tilger	55
Hafnia	45	Robert Sorby	13	Timber Tools	27
Heyne	80	Rustlands	81	Woodson	84
Jaycee Tools	81	Satin Feller	IPC		



To advertise on these pages,
please contact Juliet Lamble on 01548 531845

TOOL BOX

KEY TO PRODUCTS

A	Attachments
B	Screws/Catalogues
C	Cutting & Sharpening Service
D	Woodcarving
E	Demonstrations
F	Material Finishes
G	Hand Tools
H	Mail Order
I	Power Tools
J	Saws
K	Timber
L	Woodworking Machinery

AVON

BRISTOL Isaac Lord Ltd.

Unit 5 Hawkfield Close, Hawkfield Business Park,
Whitchurch, Bristol, BS14 0BL
Tel: 0117 978 8900
Fax: 0117 935 9898
Open: Mon - Fri 8am - 5pm
Saturday 8.30am - 1pm

A B C D F H P T W

BERKSHIRE

READING

Wokingham Tool Co. Ltd.
99 Wokingham Road RG6 1LH
Tel: 01189 661511
Fax: 01189 351441
Email: sales@wokinghamtools.co.uk
www.wokinghamtools.co.uk
Open: Mon - Sat: 9am - 1pm,
2pm - 5.30pm

BUCKINGHAMSHIRE

HIGH WYCOMBE Isaac Lord Ltd.

185 Desborough Road HP11 2QN
Tel: 01494 462121
Open: Mon - Fri 8.00am - 5.00pm
Saturday 8.30am - 5pm
Web: <http://www.isaaclord.com>

A B C D F H P T W

HAMPSHIRE

PORTRUSH CRM Saw Co Ltd

17 Amside Rd,
Waterlooville, Hampshire
Tel: 023 92263202, Fax: 023 92255144
www.woodworkingtools.co.uk
Open: Mon - Fri 8am - 5.30pm
Saturday 9am - 12 noon



A B C D F H M P S W

HERTFORDSHIRE

CUFFLEY Tilgear

Bridge House, 69 Station Road, Cuffley, Herts EN6 4TG
Tel: 01707 873434
Open: Mon - Fri 8.30am - 5pm
Saturday Closed

London

LONDON S.J. Carter Tools Ltd

Gloucester House, 10 Camberwell New Road,
Kennington Park, London SE5 0TA
Tel: 020 7587 1222
Fax: 020 7587 0306
Web: www.sjcarter.co.uk
Open: Mon - Fri 8am-5pm
Saturday 8am-12.30pm



Send for mail order catalogue
Ask for Ted Haines

A B C D H M P S W

NORTHAMPTONSHIRE

NETHER HEYFORD THE GOOD CRAFT CENTRE

New Creation Farm, Farne End Lane,
Nether Heyford, Northampton NN7 3LB
Tel: 01527 341137 Fax: 01527 341664
E-mail: jose_abrasives@btconnect.com
Website: www.goodcraftcentre.co.uk
Open: Monday - Friday 8.00am - 5.00pm
Saturday 9.00am - 4.30pm
Sunday 1.00pm - 5.00pm
OPEN WEEKEND 1ST 2ND AND 3RD OF AUGUST 9AM TO 5PM.

Robert Sorby Hamlet

Wood Blanks Liberian

Brimarc Trend

Draper Chestnut Products

Rexon Makita

A B C V D F H M P S T W

YORKSHIRE

LEEDS

D.B. Keighley Machinery Ltd

Vickers Place, Stanningley,
Tel: 0113 2574736
Fax: 0113 2574293
Open: Mon - Fri 9am - 5pm
Sat: 9am - 1pm
Website: www.dbleighley.co.uk

A B C D M P W

LIMERICK Joe Mc Kenna (Limerick) Ltd

55 Parnell Street, Limerick
Website: www.joemckenna.ie
Tel: 061 413888
Open: Monday - Saturday 8.30am - 5.30pm



Elektra Beckum • Hitachi



A B C V D F H M P S W

MIDDLESEX

JAYCEE TOOLS

Mail order sales, repair service. Large stocks of power tools,
hand tools and woodworking machinery.
Central London 12 miles, A40 2 miles.

521c YEADING LANE, Normandy, Middlesex UB8 6LN
Tel: 020 8841 1099 Fax: 020 8842 4966

SOMERSET

Yandles

so much more than just a Woodworking Centre

Opening Times:

10.00-5.00 Mon to Sat 9.30-1.30 Sun

Yandle & Sons Ltd., Hurst Works, Martock, Somerset TA12 6JU
Tel: 01935 822207 Fax: 01935 824484

To advertise in this space,

call Juliet Lamble on

01548 531845 or

email: julietl@the gmcgroup.com



Next month in F&C

ON SALE 16 OCTOBER Don't Miss It!



Chris Tribe makes a traditional pedestal desk in oak



Jim Hooker makes this stunning Art Deco fire screen



Mark Ripley gets to grips with some wild oak for his door panels on this sideboard



The Editor gives his views and reports on this year's New Designers

Hand this coupon to your newsagent to make sure you never miss an issue

Please order Furniture & Cabinetmaking magazine for me and reserve/deliver a copy every month starting with Issue 82, November

Name _____

Address _____

Postcode _____

Telephone _____

NEWSAGENT: Furniture & Cabinetmaking is available to your wholesaler through Comag Magazine Marketing



Andy Lawton gives the lowdown on owning a Sedgwick TA315 table saw

PLUS Q&A and all our regulars:
John Lloyd, Kevin Ley, tests, techniques and news



SEDGWICK MB/CP

308/410 x 230mm

PLANER THICKNESSERS FOR OUTSTANDING VALUE



Weighing an impressive 390/430Kg and featuring cast iron base, side frames, and surface thickness tables, the Sedgwick MB and CP are designed and built for accuracy, long life and minimum maintenance. They offer large dia. 3 knife cutterblocks for a superior finish; extra long feed tables and a robust cast iron fence for accuracy when surfacing; heavy duty chain driven feed rollers with separate feed motor and gearbox for optimum thicknessing feed; and the capacity to do rebating (guards supplied).



For further details of this and other Sedgwick products together with details of your nearest Sedgwick Stockist contact:

M. SEDGWICK & CO LTD SWINNOW LANE LEEDS LS13 4QG

TEL: 0113 257 0637 FAX: 0113 239 3412

SEDGWICK
WOODWORKING
MACHINERY