

February 2000, No.22

The Router

ROUTING IDEAS & PROJECTS FOR THE WOODWORKER

£2.95

Template techniques!!

Essential tips for great results

DIY PROJECTS

Magazine rack

Garden gate

Gift box

TESTS

Freud FT 1000E

Perform cutters

Dovetail Template Master

Edge-jointing: cutters and tips
for making boards wider

*Plus: techniques, tips,
specifications, contacts
and much more!!!*

WIN!!
Worth
£1500!!
Makita tools



OFFICIAL JOURNAL OF THE
GUILD OF MASTER CRAFTSMEN



Perform

ROUTER CUTTERS



Twin Flute Straight Cutter 1/2"
P104457A 1/2" Shank **£11.22 inc VAT**



Double Stile & Rail Cutter
P412411 1/2" Shank **£48.54 inc VAT**



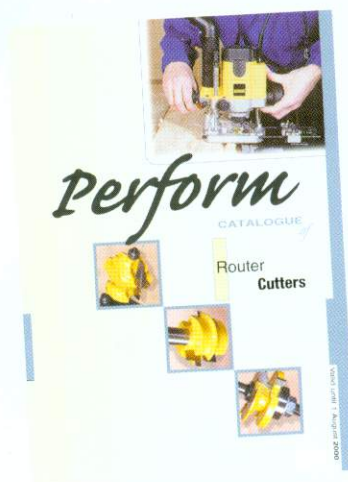
Rebate Cutter Set c/w 4 Bearings
P307161 1/4" Shank **£22.84 inc VAT**
P307561 1/2" Shank **£22.84 inc VAT**



Panel Raising Cutter
P403411 1/2" Shank **£43.36 inc VAT**



Reversible Stile & Rail Cutter
(c/w a profile cutter, slotter and bearing)
P409011 1/4" Shank **£33.45 inc VAT**
P409411 1/2" Shank **£33.45 inc VAT**



Request your **Perform Catalogue** on **01297 34836**

Chard St., Axminster, Devon EX13 5DZ Technical Sales 01297 33656 Telesales 0800 371822 Email sales@perform-tools.co.uk

If it's yellow it's Perform

Foreword

“

On page 31 of this issue you will see our report of this year's Axminster Tool & Machinery Exhibition – although from the number of you who visited our stand it seems as though you all saw the show for yourselves!

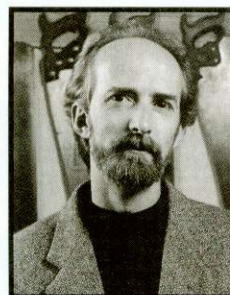
Our sister magazines *Furniture & Cabinetmaking* and *Woodturning* organise two great competitions at the show, with a huge display of entries, all of a very high standard.

For the last three years *The Router* has made special awards to those entries in the F&C competition which show the best use of a router – again see page 31 – but I'm wondering whether it's time we had our own competition? After all, we can't have the world's best router magazine outdone by a couple of upstarts like *Furniture & Cabinetmaking* and *Woodturning* magazines, can we?

A router competition would have categories for items made using a router, but also things made for a router – for example, jigs and router tables.

What do you think? I'm pretty sure that some of our friends in the trade would donate some serious bits of routing kit as prizes, so quite apart from the satisfaction of seeing your work on display (and in your favourite magazine, by the way) there would be a chance of driving home with a bootful of new router stuff!

Let me know what you think – if enough of you want to enter, there's still time for us to organise things for this year's show: just write to us, or e-mail me at PaulRicha@aol.com.



”

Webwatch

with James Shanahan

Recently I've been looking at websites which, in the main, offer the opportunity to shop on-line for routers and router-related goodies. These sites often contain extra information, such as how to use various tools and devices, but none are as informative as this month's site at www.learnfree-home.com/woodshop/

Often when you're starting out in woodwork it is hard to find answers to questions about the basic equipment and what tricks each tool can perform. Now you need look no further for this information.

The site includes a multi-media Vidbook called *Woodshop Power Tools* which gives you a carpenter's eye view of what equipment you might want if you're starting a home workshop or expanding an existing one. Using text, photos and streaming video clips – clips you can watch while you surf – it also outlines the

jobs each machine can perform, and provides a glossary to clearly identify workshop terms.

Best of all, all this information is absolutely free, so you can browse at your leisure and learn at your own pace. It's worth a surf – check it out now: www.learnfree-home.com/woodshop/



The Router contents

MANAGING EDITOR

Paul Richardson

ASSISTANT EDITOR

James Shanahan

PRODUCTION EDITOR

Andrea Hargreaves

DESIGNER

Ed Le Froy

PHOTOGRAPHERS

Anthony Bailey and
Chris Skarbon

ILLUSTRATOR

Simon Rodway

EDITORIAL ASSISTANT

Lesley Robins

GROUP ADVERTISEMENT MANAGER

Linda Grace

CIRCULATION MANAGER

Ian Moore

PRODUCTION MANAGER

Jo Pallett

CLASSIFIED ADVERTISEMENTS

Barbara Andrus

ADVERTISING ASSISTANT

Petra Tilbury

ADVERTISEMENT PRODUCTION

Adam Balthazor, Karen See

ADVERTISEMENT COPY & PRODUCTION

Dawn Harris

ADMINISTRATION MANAGER

Judy Phillips

ORIGINATION BY Viscan Graphics and Cable Reprographics

PRINTED IN THE UK BY Southernprint (Web Offset Ltd)

DISTRIBUTED BY Comag

The Router magazine will consider articles for publication, which should be sent to the Editor together with a stamped self-addressed return envelope. GMC Publications Ltd cannot accept liability for the loss or damage of unsolicited material.

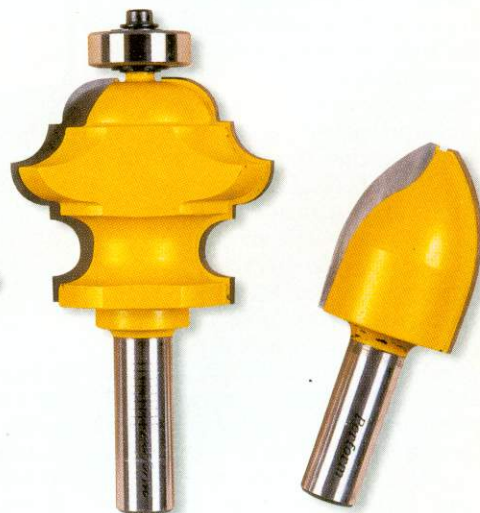


ROUTER REGULARS

Foreword.....	1
Contents.....	2
News & products.....	4
Router tips.....	8
Router diary.....	10
Readers' letters.....	13
Half-price book offer.....	58
Competition.....	63
Router Stuff.....	65
Book reviews.....	79
Router specifications – how they measure up.....	82
Router contacts – where to buy routers, cutters, accessories.....	84
Next issue.....	96

PIECES TO MAKE

Alan Parry gets going in the garden and makes a great gate.....	25
---	----



Issue number Twenty-two

February 2000



Bill and Betty McKeggie make a magazine rack.....	39
Terry Lawrence routs a disc-based box of St.	
Michel's Mount.....	68

TECHNICAL

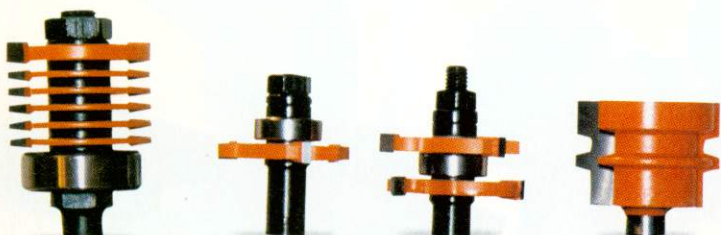
Beginners' guide: Ron Fox gives essential advice on jig templates.....	16
Router aids: Bob Wearing has many ways to rout multiple grooves.....	50
Regular joinery: Bob Adsett examines straight edge joints.....	59

EQUIPMENT TESTS

Anthony Bailey gets routered up and checks out the Freud FT100E.....	22
David Tippey puts a dovetail template jig to the test.....	39
David Tippey sees if Perform cutters are up to the job.....	55

FEATURES

This year's Axminster Show was the best yet – find out why.....	31
Anthony Bailey checks out Bob Wearing's pro' workshop.....	45
The Router Index will help you keep track of your favourite articles.....	74



The Router magazine (ISSN 1368-4752) is published every month for US\$61.22 by the Guild of Master Craftsman Publications Ltd. Subscriptions in the US are distributed by Royal Mail International, c/o Yellowstone International, 87 Burlews Court, Hackensack, NJ 07601. Periodicals Postage Paid at South Hackensack and at additional mailing offices.

POSTMASTER: send address changes to *The Router*, Royal Mail International, c/o Yellowstone International, 2375 Pratt Boulevard, Elk Grove Village, IL 60007-5937.

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 Craftsman Publications Ltd.

SUBSCRIPTION RATES

(includes postage and packing)

12 issues (1 year): £35.40/US\$73.45/Overseas £44.25

24 issues (2 years):
£70.80/US\$146.91/Overseas £88.50

Send your subscription to:

THE ROUTER

166 High Street, Lewes,
East Sussex BN7 1XU, England

Tel: 01273 477374

Fax: 01273 478606 Cheques should be made payable to
GMC Publications Ltd.

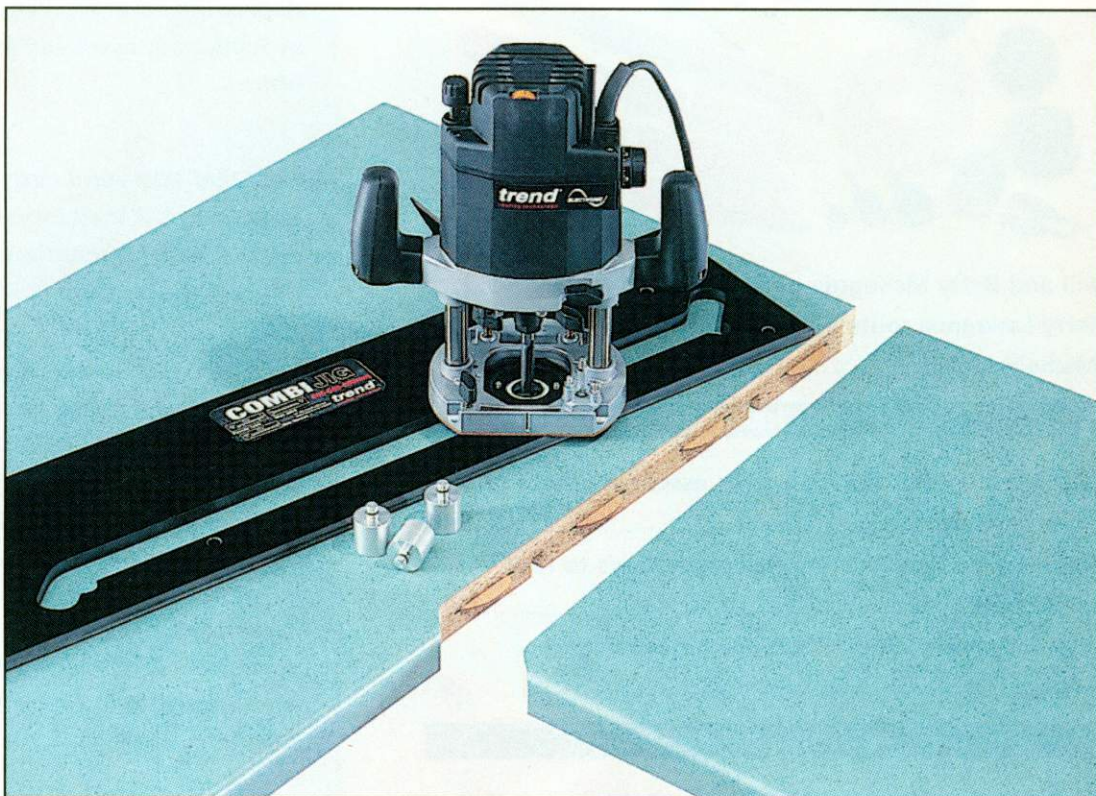
Current subscribers will automatically receive a renewal notice.

©Guild of Master Craftsman Publications Ltd. 2000

Worktop wonder

If you need close fitting joints when fitting kitchen worktops, a good router and a jig specially designed for the purpose are pretty useful items. So, those clever people at Trend have come up with the new Combi 65 jig, which can be used with worktops up to 650mm wide.

The jig is made from 12mm thick, hard-wearing solid laminate, which will enable all heavy-duty routers with a suitable guidebush and cutter combination to cut exacting butt and scribed joints. Trend reckon this can be done within 15 minutes including setting up time – but I guess it depends how fast you work. The jig can be used on worktops up to 40mm thick with or without an anti-drip post-formed edge. The jig can also be used to cut the recesses on the underside of the worktop for the panel-connecting bolts. Whether you're an on-site kitchen fitter or an inspired home improver, the Combi jig could help you out.



The Combi 65 comes in at £99.90 including VAT. For more information and details of your nearest stockist contact Trend freephone 0800487363, fax 01923 236879, e-mail: combi65@trendm.co.uk or visit www.trendm.co.uk on the web.

Plenty of pipes

Everyone knows the benefits of extraction in terms of health and keeping workshops clean and tidy, but different machines and power tools need different size pipes and fittings. Help is at hand because Simbles of Watford stock a flexible hose in 3 m lengths from 39mm to 105mm external diameters, along with securing bands, 90° bends, Y-connectors, blast gates, joiners and reducers.

In addition, there are flexible reducing fittings for attaching hoses to your power tools. As a guide, a 39mm overall diameter hose is £10.10 per 3 metres, and a 105mm overall diameter hose is £39.95 per 3 metres. All prices include VAT. For the complete range call Simbles of Watford on 01923 212022 for a copy of their extensive tool catalogue.



● Contact the Assistant Editor, James Shanahan, with news and product information. Items must be sent to him at *The Router*, GMC Publications Ltd, 86 High Street, Lewes, East Sussex BN7 1XN at least 10 weeks before publication



Super sucker

New to the UK is the Elektra Beckum SPA 2000 dust extractor. They claim it's the most powerful of its class, and meets the toughest requirements for low dust emission. Because the laid down purity level of 0.2mg per cubic metre is permanently kept to, costly workplace dust-accumulation checks are said to be unnecessary.

The machine runs off a powerful three-phase motor, and benefits from a vacuum of 2560 Pascal for effective suction, and a filter surface area of 5.2 square meters. It has a fan located downstream in the clean air area, to conform to the regulation B1 (dust explosion protected). The casing is galvanised, with a paint finish on certain parts to protect against rust. It sits on a wheeled, tilt-resistant stand with a supported and enclosed 135-litre capacity dust bag. That's a lot of dust.

There are some nifty optional extras, such as a crevice tool, which turns the extractor into a giant vacuum cleaner, and an adaptor sleeve for the universal adaptor and to fit a T-joint to connect two suction hoses. Time-delayed switching on and off is also available as an extra, making it possible to remove residual dust without switching on several machines.



This also means you can bust dust when you're out of the workshop, safe in the knowledge that it'll turn itself off when you're done. Very handy.

The SPA 2000 costs £1985 including VAT. Contact Elektra Beckum, 25 Majestic Road, Nursling Industrial Estate, Southampton. Tel 02380 732000.

The German screw manufacturer, ABC Limited, have created an ingenious device which they reckon will revolutionise the screwdriver market. It's called the ABC-BIT magazin, and on first glance it doesn't look that out of the ordinary. However, the screwdriver handle incorporates a magnetic holder, suitable for use with power drivers, complete with up to 10 bits (depending on the model), and a push-in function for multi-function screwdriving. Once the appropriate bit has been selected from the handle each part slots together "within seconds and with maximum ease".

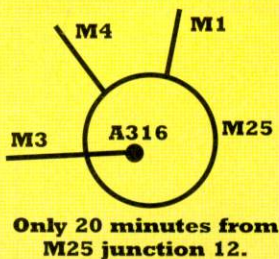
The handle has an ergonomic design, so it's a snug fit in your hand, and has a non-slip surface to allow optimum thrust for effortless use. The tool is fast, portable and safe – and it looks pretty cool too.

The ABC-BIT magazin costs £6.40 including VAT. Contact ABC on 01536 417038, or visit their website at www.spax.de

Easy as ABC



**OVER 25,000 HAND & POWER TOOLS SUPPLIED
THE LENGTH AND BREADTH OF THE COUNTRY**



**VISIT OUR
SHOWROOM AT:
73 - 81 HEATH ROAD
TWICKENHAM
MIDDLESEX TW1 4AW**

**STOP PRESS
METABO
POWER TOOLS
Now in Stock**

Order by Phone or Fax and we will normally deliver your goods within 48 hours

Carriage Charges
Spend up to £50
Postage £2.95
Spend over £50
Postage £4.50
Large Machines (over 50kg)
Postage POA

**RING FOR OUR
NEW 224 PAGE
COLOUR CATALOGUE
AND PRICE LIST FREE**

All offers subject to availability.

We offer a full range of tools, these are just a few.

Opening Hours:
Monday - Saturday
8.30am until 5.30pm
Wednesday
8.30am until 1.00pm

Prices include VAT

ROUTERS

BARGAIN OFFERS

DEWALT DW 621K 1/2" 1100w Variable Speed, with 12pc TCT 1/2" cutter set and fine height adjuster only £229.00
Dewalt DW 625EK, 1850w, 1/4" + 1/2", case, 3pc cutter set. Now only £289.95
Plus Buy with either routers a Dewalt Dovetail Jig for only £60.00 While stocks last!

HITACHI M12V 1850 W.S. & Metal Case Worth £37 FREE £229.00
NEW BLACK & DECKER KW800EK 1/2" 800w VARI-SPEED, CASE £89.00
NEW FREUD FT1000E 1/4" Vari-speed, case, attachments £109.99
FREUD FT2000E 1900w 1/2" + 1/2" Vari Speed £189.99
PACKAGE OFFER with FREUD 6PC 1/2" Set £249.99
NEW TREND TSEK 850W 1/2" V.S. & case £159.00
TREND DJ300 DOVETAIL JIG & CUTTER £89.00
TREND MINIMACH VACUUM CLAMPING MAT £65.00
TREND 6PC 1/2" CUTTER SET IN BOX £49.00
TREND 650 Worktop Jig plus TCT cutter f.o.c. £139.00
NEW TREND 650MM ECONOMY WORKTOP JIG £85.00
NEW TREND CRT/MTK2 WITH SPRING CLAMPS, PROFILE GAUGE, ADAPTOR PLATE only £179.00
ORAS ABOVE PLUS STAND & ENCLOSURE KIT £249.99
TREND CG/50 50" Clamp Guide £42.00
12pc 1/4" or 1/2" Shank Cutter, Wood Box £39.00
3pc 1/2" Shank Cabinet Set in Box only £79.00
TOP QUALITY CUTTER SET BEST VALUE!
FREUD 9pc 1/4" T/C Starter Set £59.99
FREUD 6pc 1/2" T/C Starter Set £69.99
FREUD 13pc 1/2" T/C Super Bit Set £232.95 £99.99
FREUD 3pc 1/2" T/C Cabinet Set £498.58 £119.00
FREUD 15pc 1/4" T/C Advanced Set £232.95 £110.00

RECORD POWER

BARGAIN OFFER

RECORD RPM75 1/2" Portable Morticer. Supplied with 1/4" + 1/2" Chisel & Bit. £139.00 P&P £10.00

Any Chisel and Bit 1/4" by Record £25.99
DMG250 7" Bench Sander £79.99
SCAN 150 6" Wetstone Grinder c/w rest £69.00
SM155 6" x 1" 400w £69.99
SM200 8" x 1" 650w Bench Grinder £99.99
DM526 HD Drill Stand £49.99
WR101m Mortice attachment for above £29.99
RPR400 Roller stands p-p £5 p-p £10.99 each
MD244A 1/2" 5-Speed Bench Drill £199.00
RPD12 1/2HP 5-Speed 5/8 Cap Metal, 3" wood £379.99
RPD100 1HP 12-Speed 3/4 Cap Metal, 4" wood £579.99
DMG 750 10" 550w Disc Sander £149.99
WRM 200 WS 1HP Morticer 1" Capacity with Work Stand £799.00

HANDTOOL OFFERS

Faithful 36" Capacity Super Sash Cramp £23.00
Faithful 48" Capacity Super Sash Cramp £25.00
Faithful 66" Capacity Super Sash Cramp £28.00
All Faithful Super Sash Cramps are British made!
6" Quick Grip U.S.A. Clamp £9.99
12" Quick Grip U.S.A. Clamp £11.49
18" Quick Grip U.S.A. Clamp £12.99
24" Quick Grip U.S.A. Clamp £14.99
Record 132/30 Speed Clamp 12" £13.66
Record 132/40 Speed Clamp 16" £14.53
Record 132/60 Speed Clamp 24" £16.29
Record 132/80 Speed Clamp 32" £17.87
Nobex-Champion Mitre Saw £99.99
STANLEY HAND PLANES ALL LESS 25%
Stanley 3pc Butt Chisel Set £29.95
Marples M379 6pc Chisel Set in Box £49.99
Marples M444/56 6pc Chisels Set wood Box £39.99
Estwing 200z Leather Claw Hammer only £25.99
Jack 990 PLUS 22" Hardpoint Saw FIVE FOR £29.95
Sandvik 244 22" Hardpoint Saw FIVE FOR £38.00
Sharksaw Pullsaw 12" General £14.99
Sandvik 244-22" Hardpoint Saw £8.49

DUST EXTRACTORS

E/BECKUM SPA1100 60LTD Dust Collector £199.00
SPA1100 Extractor with Fine Filter £278.00
DEWALT DW790 30LTD w/d 1000w Auto Switch £219.00
DEWALT DW793 35LTD w/d 1050w Auto Switch £299.00
TREND T304 34LTD w/d 1200w Auto Switch £149.00
HITACHI QB35E 35LTD w/d 1100w Auto Switch £199.00
"Best Buy" Good Woodworking Issue 79
RECORD RDX 8001 65LTD 1000 with Acc Kit £114.99
RECORD RDX 6001 45LTD extractor 4" hose £114.99
Plus Accessory kit
SCHEPPACH HA2600 DUST & CHIP EXTRACTOR & FINE FILTER £329.00
SCHEPPACH HA2300 DUST & CHIP EXTRACTOR £599.00
PLUS FINE DUST CARTRIDGE WORTH £259.00 FREE
MICROCLENE 400 Air Filter £135.99
MICROCLENE MC 800 only £225.00
MICROCLENE MC 1000 only £195.99
NEW MICROCLENE MC 1200 only £212.99
RECORD DX 5000 Wall Mounted High Filtration Extractor 2 motors 200lt capacity £349.00

TORMEK

1204 120W Supergrind £159.00
2004 200W Supergrind £279.00

CIRCULAR SAWS

BARGAIN OFFERS

HITACHI C6U 6" saw TCT blade 240v ONLY £99.00
DEWALT DW 365 190 mm, 1350w £199.00
PLUS DEWALT 40th TCT BLADE worth £58.00 FREE
NEW DEWALT DW 383 235 mm 1700 w £219.00
PLUS FREE extra DEWALT blade worth £25.00
HITACHI C7U 184mm 1150w £139.00
HITACHI C9U 235mm 1750w, plus metal case FREE £189.00

ALL WHILE STOCKS LAST!!

METABO KS 12665 190mm 1200w TCT Blade £169.00
METABO KSE 16785 210mm 1600w soft start electronic £219.00
DEWALT DW62 184mm, 1150w £119.00

PLUS EXTRA NAIL BITTER FREE WITH SAW
DEWALT DW 351 152mm, 850w £169.00

JIGSAWS

BARGAIN OFFER

AEG/ATLAS COPCO BSPE 100XL Jigsaw, 600w, 120mm cut in wood quick blade change
Now Only £129.00 with Case

DEWALT DW320K 500w £125.00
DEWALT DW 321K 650w 110mm V.S. & FENCE £149.95
AEG STE 500 VARI SPEED £59.99
AEG STEP 570X Fixer blade, 570W V.S. metal case £85.00
METABO STE80 Quick 610 watts Vari-speed, case £96.00
METABO STEB105 710 watts V.S. 105mm cut in wood £159.00

PLANERS

BARGAIN OFFER

Dewalt DW 678K 850w, 4mm cut, metal case, fence, bag Now only £179.00

METABO H0882 800w 3mm cut, case £145.00
DEWALT 677 600w 1.5mm £159.00
DEWALT DW733 1800w Portable Thicknesser £499.00
FREE SET REPLACEMENT BLADES WORTH £41.00
AEG H500 500w + dust bag 1.5mm cut £89.00
AEG/Atlas Copco PR382K, 800w, Case, Dustbag £159.00
DEWALT DW78X 1010w electronic 4mm cut, case £239.00
E/BECKUM HC260 Surface/Thicknesser Plus wheel kit £637.00
E/BECKUM HC260K 2.2 Kw, Base £749.00
SCHEPPACH HNS260 Planer/thicknesser with metal base stand and wheel kit £699.00
SCHEPPACH HNS3200 Planer/thicknesser 310x180mm £1215.00
RECORD/LORDEM RD30 Planer/thicknesser 12"x27" 2.5HP Cast bed with cabinet base £849.00
RECORD/LORDEM RD26 Planer/thicknesser 10"x6" 2.5HP Cast bed supplied with stand £649.00

SANDERS

BARGAIN OFFERS

DEWALT DW431 75mm Belt Sander 650w V.S. £164.95 with sanding frame £209.00
DEWALT DW650 100mm Belt Sander 1010w Industrial £249.00
PLUS FREE SANDING FRAME WORTH £101.00

METABO SXE 450 DUO 400w Dual Orbit 3mm or 6mm £149.00
METABO SR226 200w 1/2" Sheet sander £74.00
METABO SR358 350w 1/2" Sheet sander £143.00
DEWALT DW634 1/2" Sheet Finishing £208.00
or twin-offer DW634 + DW411 Palm Sander £229.00
DEWALT DW636 1/2" Sheet Rounding £259.00
or twin-offer DW636 + DW411 Palm Sander £269.00
DEWALT DW650E 4" Vari-speed Belt Sander £325.00
DELTA 31-460 4" Belt & Disc Sander £109.00
DELTA 31-695 6" Belt, 9" Disc, 1hp with stand £299.00
DELTA 31-695 6" Belt, 9" Disc, 1hp with stand £299.00
DELTA 31-780 Spindle Sander £175.00
AEG DSE 260 Detail Sander £79.00
DEWALT DW411 HD Palm Sander £72.00
DEWALT DW423 HD Random Orbit £94.00
DEWALT DW443 6" HD Random Orbit £139.00
AEG HBSE75 3" HD Vari Speed Now £179.00
HITACHI SV85A 200w Palm Sander Now £69.00

BANDSAWS / SCROLLSAWS

BARGAIN OFFERS

NEW RECORD RPB58, 7.5" throat width, 85mm depth of cut, 350w, weight 17kg ONLY £89.99
NEW RECORD RPB512, 12" throat width, 6" depth of cut, 800w, cast table, weight 60kg £229.00
or supplied with legstand & mitre fence £289.00
RECORD SCROLL 20 SCROLLSAW, 20" capacity, cutting thickness 2 1/2", vari-speed, with stand only £249.00. Weight 93kg P&P £30.00 limited stock!
All have a 5 year guarantee

NEW STARTRITE 301E 200mm D.O.C 300mm Throat, cast table inc. stand and mitre fence ONLY £499.00
NEW STARTRITE 351E 200mm D.O.C 350mm throat, cast table inc. stand and mitre fence ONLY £849.00
DELTA 28-185 Bench Bandsaw £169.00
DELTA 28-190 2 wheel X HP Bandsaw with stand £249.00
DELTA 40-560 16" 2-Speed Scroll Saw £129.00
NEW DELTA 40-540 16" Variable Speed £149.00
ONLY WHILE STOCKS LAST
DEWALT DW 788 Vari-Speed Scroll Saw £449.00
Plus FREE legstand and work light worth £94.00
ELEKTRA BECKUM BAS315 2-wheel, Cast Table, Supplied with stand, 2 blades & mitre fence All for £299.00
E/BECKUM BAS500 4-speed 12" steel frame £849.00
SCHEPPACH Basato 5.4, 4 speed Cast £999.00
STRICTLY ONLY WHILE STOCKS LAST!
Startrite 3525 12" DOC cast table, 2-speed £1499.00
PLUS FREE DELIVERY UK MAINLAND & NIRELAND

BENCH SAWS

BARGAIN BOX

DEWALT DW744 HEAVY DUTY SAW TABLE, 1600W 10" BLADE PLUS FOLDING STAND, SIDE & REAR SUPPORT EXTENSIONS
ALL FOR ONLY £735.00 p+p £9

RING FOR OUR CLEARANCE PRICE ON ELU ETS21 TABLESAW
NEW DEWALT DW744 Portable Table Saw, 610mm Rip supplied with portable stand, side support & out feed table £735.00
NEW DELTA 36.525 10" Table Saw, legstand and ext. wings £229.00
E/BECKUM PK200 Precision Table Saw £359.00
Package PK200, Sliding Table, Ext. Table, Leg stand and carrier rails all for only £99.00
E/BECKUM PKF 255 Precision Panel Cutting Saw 25KW cut at 90° 80mm complete for only £1249.00
E/BECKUM PKF 255 V8 Precision Saw with scriber £1499.00
E/BECKUM TKH5315 Professional Saw Bench £389.00
SCHEPPACH TS2000 Precision Saw Table £599.00
RING FOR PACKAGE DEALS
SCHEPPACH TS2500 Precision Saw Table £849.00
TS2500 with 1.4m sliding table £1095.00
SCHEPPACH TKU Saw Bench 3HP 85mm cut or with sliding table carriage, all for only £399.00
SCHEPPACH TS4010 2000mm, sliding table & 8 width ext table "In Stock" £1740.00

RADIAL ARM SAWS

DeWalt DW720 250mm, 1450w £739.00
Plus accessories worth £137.00 FREE
DeWalt DW721 300mm, 2000w £1199.00
DeWalt DW728 350mm, 2200w £1870.00
EUMENIA Exact 300 £399.00
EUMENIA Exact 600 £499.00
EUMENIA Floor Stand £119.95
RING FOR PACKAGE DEAL ON EUMENIA

BISCUIT JOINTERS

BARGAIN OFFERS

AEG LF650 Biscuit Jointer adjustable angle, case, dustbag plus 1,000 biscuits of your choice now only £169.00
DeWalt DW682K, Case, Dust Bag Plus 1,000 DeWalt Biscuits now only £229.00
FREUD JS102 Adjustable Angle £139.95

MITRE SAWS

BARGAIN OFFERS

ELEKTRA BECKUM KS210 Crosscut & Mitre Saw 1200w, 210mm blade. Now only £99.00
ELEKTRA BECKUM KS250 Crosscut & Mitre Saw 1800w, 250mm blade, clamp, dust bag, extension bag. Now only £179.00
ELEKTRA BECKUM KG750 240V FLIP-OVER SAW £625.00 or supplied with portable stand only £669.00

DEWALT DW710 Tabletop Mitre Saw only £359.00
DELTA 36-075 10" Compound Mitre Saw £169.00
DELTA 36-230 12" Side Kick Compound Mitre Saw £299.00
DELTA 36-240 1600w Slide Mitre Saw also 110v £399.00
DEWALT DW700 250mm 1200w Plus Legstand £449.00
*DEWALT DW701 1600w, VARI- SPEED £529.00
*FREE Leg Stand worth £90
NEW DEWALT DW711 mitre/table saw £399.00
E/BECKUM KGS300 Crosscut 240v, £339.00
Plus Folding Stand worth £65.00 with saw
E/BECKUM KGS300 Crosscut 110v £369.00
Plus Folding Stand worth £65.00 with saw
DEWALT DW705 4" depth of cut 1500w, TCT blade 305mm £449.00
Supplied with ext kit, length stop, clamp, dust bag FREE
DEWALT DW742 250mm Flip-over saw £650.00
RECORD RPR400 Roller Stands per pair £5 p-p £21.98
DEWALT DW708, 1500w, 102mm cut crosscut 305mm £659.00
supplied with DE1000 stand, material clamp worth £141.00

AIR TACKERS & NAILERS

BARGAIN OFFERS

Pasloide IM250 19-64mm Brad Nail £425.00
Pasloide IM350 50-90mm Nail £425.00
Complete with battery, charger and case.
Full range of fixings in stock.
New flex hammer 32mm-64mm Brad Gun £369.00
Cordless action, no battery required
Supplied incase. Full range of fixings in stock.
All of the above require no compressor!

Electric Rapesco 53EL 14mm staple 16mm brad £34.99
Electric Rapesco PRO 18GEL 10-30mm brads £119.00

CORDLESS

BARGAIN OFFERS

DEWALT DW921K2 9.6V DRILL/DRIVER £110.00
PLUS 3RD BATTERY WORTH £37 FREE
DEWALT DW953K2 12V drill/driver, 30mm charge £135.00
PLUS 3RD BATTERY WORTH £51 FREE
DEWALT DW954K2 14V DRILL/DRIVER £149.99
PLUS 3RD BATTERY WORTH £57 FREE
NEW DEWALT DW933K2 18V JIGSAW £329.00
PLUS SIDE FENCE F.O.C.
NEW DEWALT DW 997K52 18V TWIN PACK £439.00
DEWALT DW 914K5 14V TWIN PACK £329.00
PLUS EXTRA BATTERY WORTH £86.00 FREE
NEW ATLAS COPCO PEP 18T 18V COMBI £249.00

METABO BST9-6V Drill Driver, Keyless, case £110.00
METABO BST 12 Impulse 12v Drill Driver, case £139.00
METABO BST 12 Plus 12v, 2x2 amp batts, Drill Driver £169.00
NEW DEWALT DW997K1 18V combi & 18v jigsaw only £469.00
NEW DEWALT DW904K2C 24V SDS Hammer with 2 batteries, 1 Hour charge case, chuck & adapter ONLY £399.00
NEW DEWALT DW4PAK2, 18V 4pc kit, 18v combi, Trim saw, Recipsaw, Torch 2 Batteries ALL FOR ONLY £599.00
DEWALT DW912K2 12v combi, with 3 Batteries ONLY £239.00
DEWALT DW914K2 14v Combi + torch £249.00
DEWALT DW993K2 18v Combi + torch £299.00
DEWALT DW935K2 14v Trim saw 2 Batts £269.00
DEWALT DW936K2 18v Trim saw 2 Batts £299.00
PLUS 30 TOOTH TCT BLADE WORTH £39.00 FREE
NEW DEWALT DW938K2 Recipsaw 2 Batts £288.50
AEG BS259-6T 9-6v Drill Driver 2Batts hour charge £89.95
AEG BAS12T 12V Drill Driver 2 Batts Metal case £129.95
AEG/ATLAS Copco PES 14.4T 14v Drill/Driver 2 Batts 2 Amp £185.00
AEG/ATLAS Copco PEP 14.4T 14v combi 2x 2amp Batts £199.00
AEG/ATLAS Copco PEP 18T 18v combi 2x2amp Batts £249.00

UNIVERSAL WOODWORKING

BARGAIN OFFER

RECORD MAXI 26 PLUS COMBINATION MACHINE READY TO USE, 2HP. OUR PRICE ONLY £1699.00
FREE DELIVERY UK MAINLAND
FREE LUREM SPINDLE BLOCK & CUTTERS
FREE 1 DAY TRAINING DAY AT RECORD
HURRY - DON'T MISS OUT!

RECORD Optimake Combination Machine with Mobile Stand & Dust Extractor only £1599.00
Lurem C260E Universal P.O.A
Lurem C3105I Universal £4899.00
All prices include delivery & a one day training course

LATHES

BARGAIN OFFERS

Record RPML 300 Lathe £249.00
Record DML 24X plus chuck set £199.00
Record CL1 36" 1 1/3hp £299.00
Record CL5 12" 1 1/3hp £325.00
Record CL2 36" 1 1/2hp £369.00
Record CL3 36" 3 1/4hp E.P.O.A.
Record CL3 48" 3 1/4hp £519.00
PACKAGE OFFER CL2, CL3B, RP3000X, RPLB Stand and free delivery UK £599.00
PACKAGE OFFER CL3, CL3B, RP3000X, RPLB Stand and free delivery UK £679.00
CL3B bowl turning attachment £59.00
RPLB Adjustable lathe stand £99.00
RPH56 6pc HSS chisel set £69.95
RP3000X chuck set £69.95
ALL RPX chuck accessories ONLY £19.00
CWA93 Revolving centre £19.00
CWA131 Long hole boring kit £19.00
CWA140 and CWA160 Chuck and fitting £19.99



**TO ORDER OR QUOTE
0181 892 3813 5 lines**





**73 - 81 HEATH ROAD,
TWICKENHAM,
MIDDLESEX TW1 4AW**



DEWALT



DEWALT DW 953K2

12 volt Drill/Driver • Adjustable Torque
Vari-Speed, Reverse • 30 Min Charger • 2 Batteries

Our Price £135.00

PLUS 3rd battery worth £51.00 FREE



DEWALT DW 954K2

14 volt Drill/Driver • 17 Adjustable Torque • Vari-Speed & Reverse • 30min Charger • 2 Batteries & Case

Now Only £149.99

PLUS 3rd BATTERY worth £57.00 FREE



DEWALT DW 912K2

12 Volt Combi Drill/Driver • Vari-Speed & Reverse
Percussion Hammer • Vari-Speed & Reverse
1 Hour Charger • 2 Batteries

Our Price £219.00

with 3rd battery £229.00



DEWALT DW 678K

Planer 850 watt, 4mm cut • 25mm Rebate
with Case, Side Fence • Rebate Fence •

Our Price £179.00



DEWALT DW 321K

Top of the Range Jigsaw
650w Vari-Speed • Pendulum Blade Action
110mm D.O.C. in Wood Carry Case

Our Price £149.95

PLUS Side Fence FREE



DEWALT DW 708

Double Bevel Mitre Saw, 1800w • 305mm
Crosscut 60° Right/50° Left Mitre

Our Price £659.00

**PLUS DE1000 Stand, Material Clamp
worth £141.00**



DEWALT DW 621K

1100w • 1/4" Router • Vari-Speed Soft Start
Side Fence • Carry Case
Integral Dust Extraction

Our Price £229.00

**PLUS 12 piece 1/4" TCT Cutter Set
and Fine Height Adjuster FREE**



DEWALT DW 625EK

1850w • 1/4" + 1/2" Router
Vari-Speed Soft Start • Side Fence • Case
Still the Best Heavy Duty Router

Our Price £289.95

**PLUS 3 piece 1/2" TCT Cutter Set FREE
Package Deals Available**



DEWALT DW 650

1010w • 4" H/D Belt Sander
Compact & Powerful Fan Cooled Motor

Our Price £249.00

**PLUS Dewalt Sanding Frame
Worth £101.00 FREE**

ALL WHILE STOCKS LAST

0181 892 3813 5 LINES

Router tips

£75 is on offer for each issue's Top Tip and £20 for each of the others published alongside.

Send your tips, supported by illustrations if relevant, in envelopes marked Router Tips, to The Router, 86 High Street, Lewes, East Sussex, BN7 1XN

Square ends

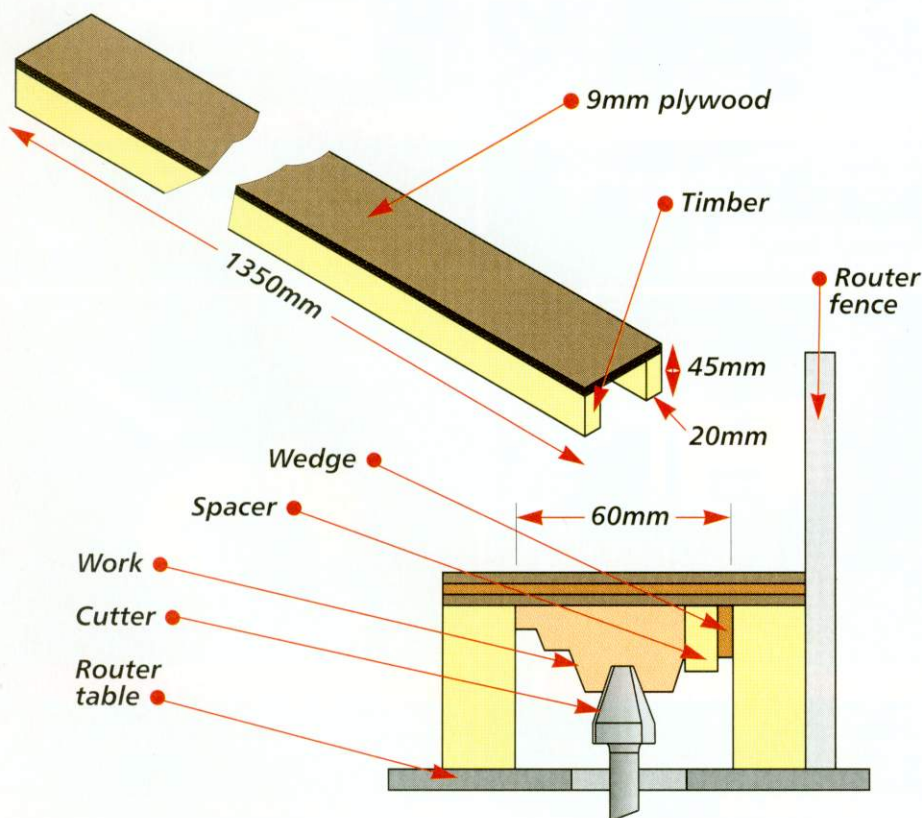
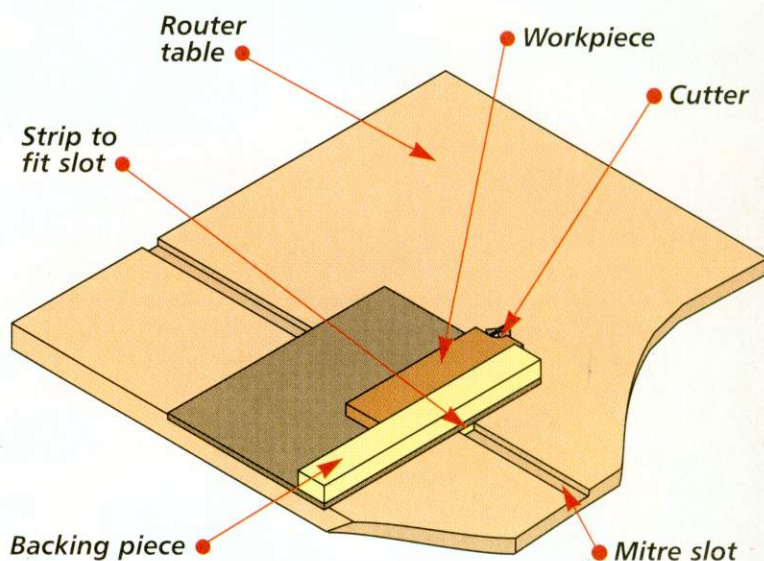


Here's a jig for the router table for squaring up the ends of boards. It helps to have some form of accurate guidance, in this case I used the mitre guide slot.

The diagram shows a thin board with a backing piece to support the work. The strip underneath is a good fit in the mitre slot. Hold the work against the backing piece and push past the cutter to trim the end.

Any tendency of the cutter to pull the workpiece into it can be counteracted by using a clamp instead of hand pressure. Simple.

N. Meller



END VIEW

Multiple pass routing channel

When using a router table to make a complex shape, such as a dado rail or picture frame, where several passes are required, successive cuts can destroy the the initial flat surface which registered with the router table top. I came up with this device to solve this problem.

The device is simply an accurately-made channel consisting of two straight pieces of timber glued with Cascamite to a 9mm plywood strip, into which the work is wedged.

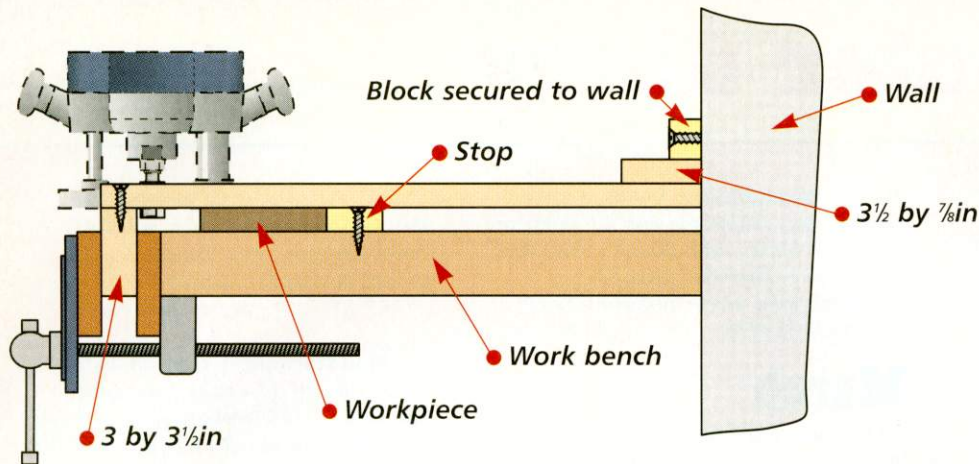
The two narrow wedges are 150mm long, 6mm thick tapering to zero, and 15mm wide. With one placed at each end they hold the workpiece surprisingly securely.

A spacer can be used at the side of the work, and also, when cutting small workpieces, spacers can be put above the work to bring it down to the level of the cutter.

The channel is inverted and moved along against the table fence. The workpiece is held securely in the channel and passes over the cutter. The position of the cutter on the work can be checked before cutting, by looking along the channel.

The size I have chosen is versatile enough for general work, but the principle can be applied to any size you choose.

P. Martin, Macclesfield



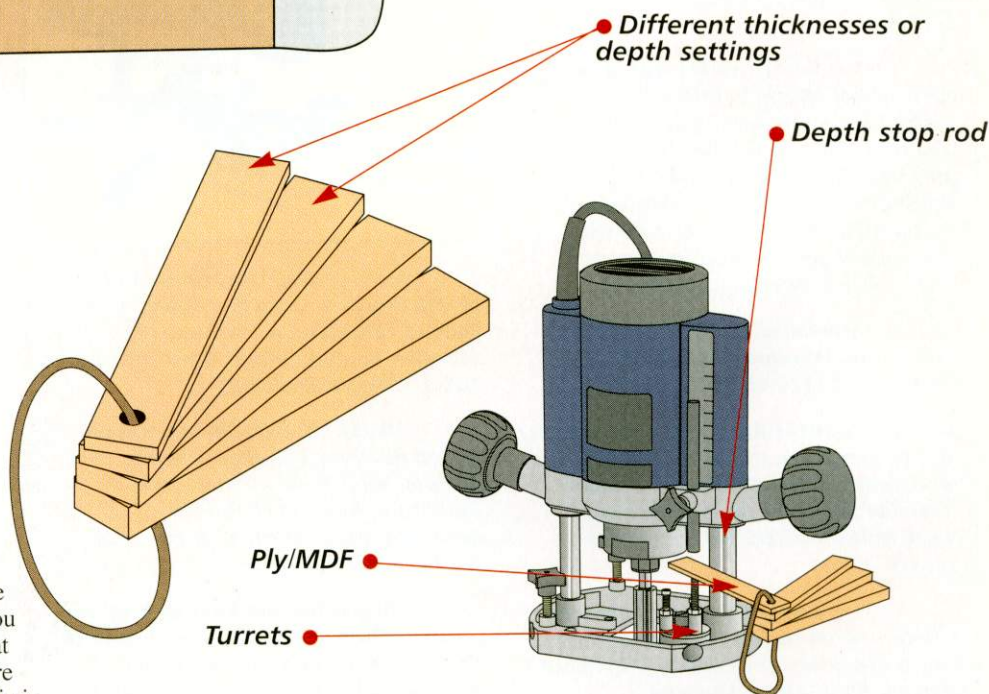
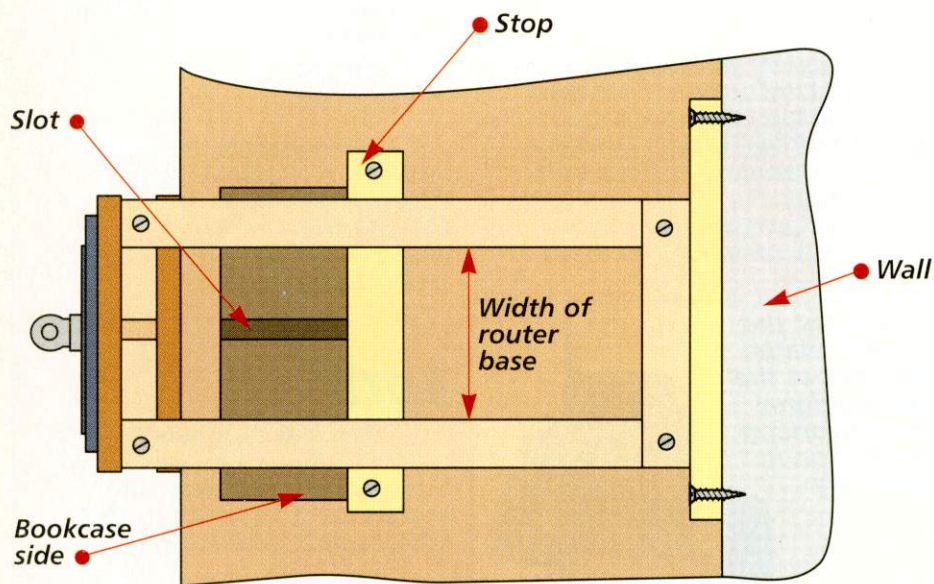
Vice jig

Here are the plans for a jig I made about 20 years ago, but which I still find useful today. I needed a jig to help me rout out slots in a set of bookcases I was making. One end fits into the bench vice and the other end under a batten on the wall of the garage at the back of the bench. When you press the end into the vice and secure it the workpiece is secured to the bench.

The length is determined by the distance between vice and wall, while the width between the guides is the diameter of your router. All the parts were made from offcuts of oak or hardwood, and secured with No. 12 screws.

I also screw a batten to the bench to help maintain the 90° angle, allowing the workpiece to slide into place for each slot. You can tap the block in the vice for fine adjustment, especially when the cutter is not the full diameter of the slot required. Release the vice to move the workpiece to the next slot. Occasionally you may need to use G-cramp to secure the workpiece to the bench.

J.V. Rogers, Dorset



Fence stop adjuster

The three-stage depth setting turret on the average router is OK but seldom gives you the correct intermediate plunge stages that you need. The result can be passes that are too deep or too shallow. A way around this is to have a small pack of different thickness pieces of ply or MDF about 1/2 in wide that you can slip in turn under the depth stop and thus get any plunge setting you want. A refinement is to drill them and use a piece of bath plug chain or string to tie them together so they can't get lost.

T. Banks, Slough

Tips must not previously have been submitted or published elsewhere. All tips may be reproduced in a compilation booklet.

January

29 - 30 Woodturning, free demonstration by Reg Sherwin, 10am to 3.30pm, John Boddy's Fine Wood & Tool Store, Riverside Sawmills, Boroughbridge, North Yorkshire YO5 9LJ Tel: 01423 322370

February

5 Spindle Turning demonstration by Gary Rance, 11 - 4pm, Isaac Lord Showroom, 185 Desborough Road, High Wycombe, Bucks, HP11 2QN. Tel 01494 462121.

5 - 6 Woodcarving, free demonstration by Peter Berry, 10am to 3.30pm, John Boddy's Fine Wood & Tool Store, Riverside Sawmills, Boroughbridge, North Yorkshire YO5 9LJ Tel: 01423 322370

12 Tools Workshop, free demonstration by Draper Tools, 10am to 3.30pm, John Boddy's Fine Wood & Tool Store, Riverside Sawmills, Boroughbridge, North Yorkshire YO5 9LJ Tel: 01423 322370

13 Finishing, free demonstration by Draper Tools, 10am to 3.30pm, John Boddy's Fine Wood & Tool Store, Riverside Sawmills, Boroughbridge, North Yorkshire YO5 9LJ Tel: 01423 322370

15 - 25 June Furniture for our time The work of Matthew Hilton. The Geffrye Museum, Kingsland Road, London E2 8EA. Open Tuesday to Saturday, 10am to 5pm. Tel 020 7739 9893 fax 020 7729 5647 recorded information 020 7739 8543 web address <http://www.geffrye-museum.org.uk> email: info@geffrye-museum.org.uk

17 - 20 International Woodworking Exhibition, Wembley Exhibition Centre. Tel 01322 660070

19 - 20 Woodturning, free demonstration by Tim Hope, 10am to 3.30pm, John Boddy's Fine Wood & Tool Store, Riverside Sawmills, Boroughbridge, North Yorkshire YO5 9LJ Tel: 01423 322370

23 - 30 April Contemporary Furniture 1 Recent work by five East London furniture designers, selected by a panel of experts. The Geffrye Museum, Kingsland Road, London E2 8EA Open Tuesday to Saturday, 10am to 5pm. Tel 020 7739 9893 fax 020 7729 5647 recorded information 020 7739 8543 web address <http://www.geffrye-museum.org.uk> e-mail: info@geffrye-museum.org.uk

26 - 27 Woodturning, free demonstration by Harry Middleton and Bill Hodgson, 10am to 3.30pm, John Boddy's Fine Wood & Tool Store, Riverside Sawmills, Boroughbridge, North Yorkshire YO5 9LJ Tel: 01423 322370

March

3 - 4 Isaac Lord Show, Isaac Lord Showroom, 185 Desborough Road, High Wycombe, Bucks, HP11 2QN. Tel 01494 462121.

3 - 2 July Contemporary Furniture 2 Recent work by five East London furniture designers, selected by a panel of experts. The Geffrye Museum, Kingsland Road, London E2 8EA Open Tuesday to Saturday, 10am to 5pm. Tel 020 7739 9893 fax 020 7729 5647 recorded information 020 7739 8543 web address: <http://www.geffrye-museum.org.uk> email: info@geffrye-museum.org.uk

Check out the router-related goodies at the International Woodworking Exhibition in February



5 - 6 Woodcarving, free demonstration by Phil Reardon, 10am to 3.30pm, John Boddy's Fine Wood & Tool Store, Riverside Sawmills, Boroughbridge, North Yorkshire YO5 9LJ Tel: 01423 322370

11 - 12 Routing, free demonstration by Ted Heathcote-Walker, 10am to 3.30pm, John Boddy's Fine Wood & Tool Store, Riverside Sawmills, Boroughbridge, North Yorkshire YO5 9LJ Tel: 01423 322370

11 - 12 Show for the East of England woodworking and tool show at Ipswich Showground. The show will cover woodworking, carving and woodturning. For further information on prices and advance ticket offers contact either: Roy Coe Woodturning on 01787 211539, e-mail: roycoewoodturning@btinternet.com or East of England Exhibitions on 01787 21139, e-mail east_ex@btinternet.com

11 - 31 Everyone's a winner The Devon Guild of Craftsmen touring exhibition, Bridport Arts Centre, South Street, Bridport, Dorset DT6 3NR Tel: 01308 427183 contact: Chris Huxley

18 Woodturning in Motion, with Ralph Harvey, 11 - 4pm, Isaac Lord Showroom, 185 Desborough Road, High Wycombe, Bucks, HP11 2QN. Tel 01494 462121.

18 - 19 Woodturning, free demonstration by Reg Sherwin, 10am to 3.30pm, John Boddy's Fine Wood & Tool Store, Riverside Sawmills, Boroughbridge, North Yorkshire YO5 9LJ Tel: 01423 322370

25 - 26 Woodturning, free demonstration by Harry Middleton, 10am to 3.30pm, John Boddy's Fine Wood & Tool Store, Riverside Sawmills, Boroughbridge, North Yorkshire YO5 9LJ Tel: 01423 322370

April

1 - 23 Everyone's a winner The Devon Guild of Craftsmen touring exhibition, Bridport Arts Centre, South Street, Bridport, Dorset DT6 3NR Tel: 01308 427183 contact: Chris Huxley

1 Woodturning tutorial, with Reg Slack, 11 - 4pm, Isaac Lord Showroom, 185 Desborough Road, High Wycombe, Bucks, HP11 2QN. Tel 01494 462121.

14 - 16 Kity machines demonstration, 11 - 4pm, Isaac Lord Showroom, 185 Desborough Road, High Wycombe, Bucks, HP11 2QN. Tel 01494 462121.

14 - 16 Yandles Show, Martock, Somerset. Tel 01935 82207

14 - 16 Midlands Woodworking and Woodturning exhibition, Warwickshire Exhibitions Centre, Lymington Spa. Contact Meridienne Exhibitions: 01926 614101

While every effort is made to ensure the accuracy of information printed here, readers are advised to check with the venue and/or the organisation listed, before setting off. Have fun at the shows, and if you see me at one, come and have a chat.

James Shanahan

Snappy®



Quick Release Drilling System

The Snappy system will change the way you fit drilling and screwdriving tools into all your cordless, power or pillar drills. By simply fitting a Quick Chuck® into the drill, Snappy or any bits with a 1/4 inch hex shank, will 'snap' in effortlessly. Tools are released by retracting the sprung loaded outer sleeve.

Snappy tools are offered either individually, as sets or in kit boxes and are available from Trend stockists around the UK.



www.trendm.co.uk/snappy
0800 487363

trend®
routing technology

P r e c i s e l y ELEKTRA BECKUM

- Large torsion free iron table
- Steel construction provides rigidity and accuracy
- Resilient paintwork gives lifetime protection
- Wide throat gives large cutting capacity
- Table steplessly adjustable to 45°
- Connects to dust extraction to give GS approved low dust emission



BAS 315 BANDSAW

The industry standard in its category, a robust precise machine.

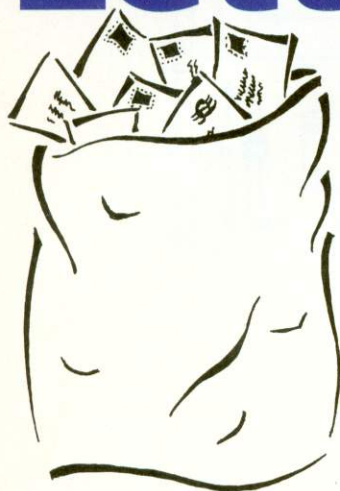
FREE
LEGSTAND
+ 5 Blades
worth:
£105 (inc vat)

FROM PARTICIPATING STOCKISTS ONLY

For the latest information on the ELEKTRA BECKUM product range
please call: **02380 732000** Fax: **02380 747500**
www.elektrabeckum.co.uk

Metabo (UK) Ltd, 25 Majestic Road, Nursling Industrial Estate, Southampton, Hampshire SO16 0YT

Letters to The Router



The Router welcomes letters on anything to do with routing, and wants to know what you think about the projects featured in the magazine, along with your tips and technical points – so much so that we are offering £10 per letter published. In the meantime, crisp tenners are winging their way to this month's writers

Write to us at: *The Router*, GMC Publications Ltd, 86 High Street, Lewes, East Sussex BN7 1XN

A question of size

I am a hobby woodworker and am going to purchase a Bosch POF router to do some light work, using a jig on my Coronet lathe. I want to rout 3mm slots with a spiral twist bit – down-cut, as I need a very clean edge, 10mm deep and 60mm long – to receive some shaped 3mm glass pieces I have designed, cut and ground to shape.

I know I need to make several light cuts, but will I be better off with the variable speed POF600 (12 - 27,000rpm, £120) or will the much cheaper POF500 (27,000rpm, £80) do the job adequately?

I am unemployed so the cost is quite a factor, however I will happily wait to purchase the more expensive and powerful variable speed version if:

1. It will perform much better cuts in different woods. Do different woods require different speeds? I mainly use ash, cherry, beech and oak.
2. The single speed will cause the wood to burn more – this would be unacceptable.
3. The variable speed one will be much more versatile and last longer.

I would also like to run off some small mouldings, using the mini-machine jig Bob Wearing demonstrates in 'Routing aids' in issue 17. Out of interest, which version is he using there? Is the variable speed better in both situations?

Also, to reveal a little more of my quite comprehensive ignorance about things router-related, is there a maximum diameter of cutter for this type of router? I have figured out it won't make door panels or large ogee rails, but for relatively small beadings etc?

Thank you very much for your time, I am more interested in a prompt reply than a tenner!

Damian Gaffey, Wales

▼ The Bosch POF500



Your letter poses one of the most frequently asked questions – should I spend more money and get a better router? In this case I am happy to say the answer is not really. I suspect most owners of small, 1/4in collet variable-speed machines leave their routers set at maximum for most of the time, as lower speeds are only really needed for larger diameter cutters than even a 600W motor can cope with – this also applies to using the Bob Wearing jig. Burning is the result of too slow a feed speed in relation to the cutter speed, and can often be dealt with by making one very light final cut.

Regarding your point about cutter diameters – any cutter which is sold in the UK will have a diameter that is appropriate to its shank size, so if you can buy it you can use it. Having said this, you should take shallower cuts when using big cutters to reduce the strain on the motor. Sorry if our reply was slower than you hoped; magazines are put together some time before actual publication, but you are welcome to the tenner!

Paul Richardson

True edges

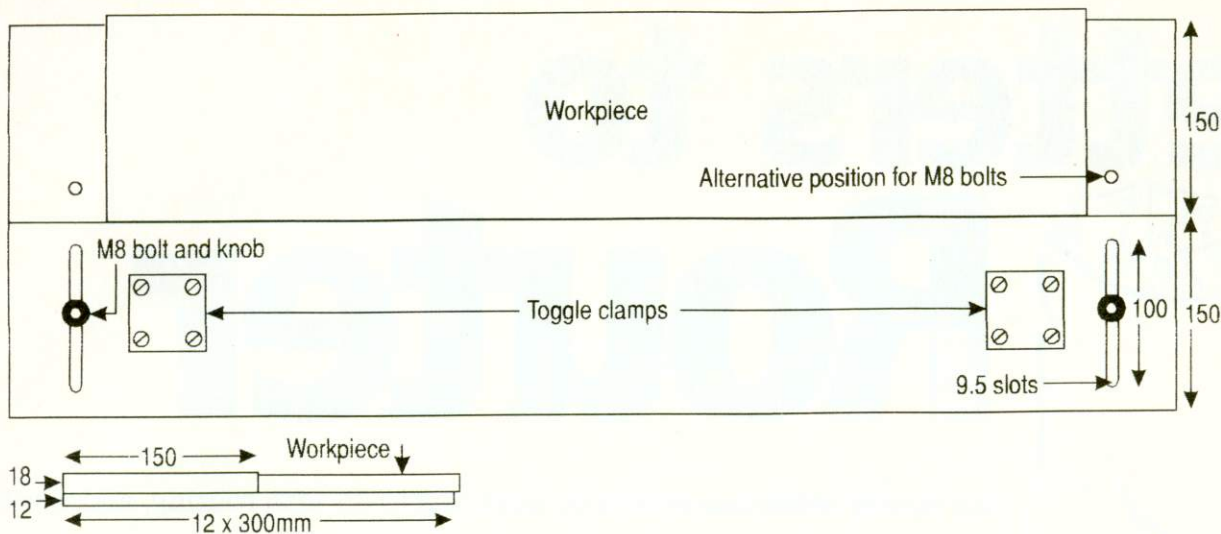
I was interested in reading Roy Sutton's article in *The Router*, issue 19, page 83, on constructing a jig to overcome the problem of planing a true edge. If I understood the jig correctly, I concluded that it could not be used for boards shorter in length than the distance between the two toggle clamps. The jig is also dependant on the router having a reasonable plunging depth. Perhaps you could confirm this.

However my main reason for writing is to ask if *The Router* has published plans for a jig that solves the problem of squaring up the ends of boards. My present method is to use an L-shaped template of MDF, which I know has a true right-angle.

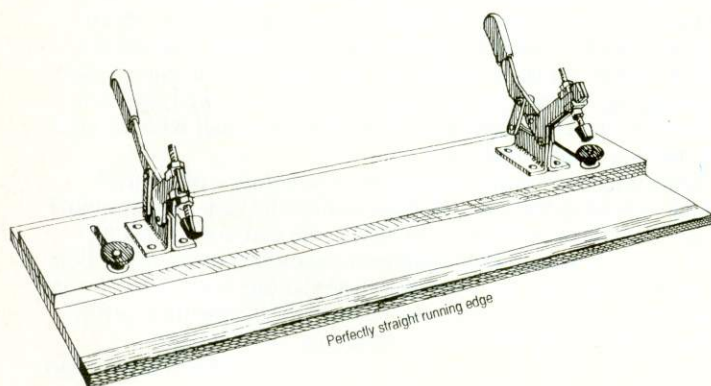
I clamp the long leg of the L-shape to the edge of the board to be squared, with the short leg close to the end of the board. Any deviation from the end of the square is plain to see, and can be trimmed off with a template profile cutter.

This works quite well, but I would much prefer a system where I could use my router table, rather than using my router freehand. Any ideas?

D. Rickard



◆ Roy Sutton's edge planing jig



Thank you for your query regarding Roy Sutton's edge planing jig. You can, in fact, plane quite short lengths if you wish, by merely adding a third toggle clamp in the middle.

As regards cutter length, most top-mounted bearing cutters are a bit longer because of the position of the bearing. Allied to that, if the jig base is say, 9mm ($\frac{3}{8}$ in) thick, and your router top is also fairly thin where the router is mounted (if you have a steel or hard plastic insert plate), then cutter projection isn't a problem!

Your second query about trimming ends of components is easily solved too. I used to square up the ends of boards using a T-square or L-piece to guide the router's baseplate. Then I came across a variation – to incorporate a slot to take a guidebush, thus ensuring the router can't wander. If you turn to page 8, you'll see this method appears on the Tips page, with a diagram to show you how to set up. Oh, and please let us know what your address is, so we can get a tenner in the post to you!

Paul Richardson

Troubleshooting

Should you have any routing queries that have you flummoxed, please drop us a line explaining in detail what you are trying to achieve. We will then put it to our panel of experts who will do their best to solve the problem.

We will publish successful ones, and although we will do our best to reply to all queries we cannot guarantee that all that aren't published will receive a response.

Published letters will be edited to fit the space allocated

**NEW
GLOUCESTER
SUPERSTORE**

MODEL	OUR PRICE
Pot Belly - Std	£69.95
Pot Belly - Lge	£84.95
Pot Belly - Extra Lge	£99.95
Boxwood	£104.95
Boxwood Deluxe	£154.95
Comfort	£259.95
Parlour	£259.95
Franklin	£269.95
Cottage	£299.95
Junior Victoria	£349.95
Victoria	£399.95

Clarke
CAST IRON STOVES
FROM ONLY **£69.95**

Clarke SCROLL SAWS

MODEL	DEPTH OF CUT	THROAT DEPTH	OUR PRICE
CSS300	40mm	330mm	£49.95
CSS400	50mm	400mm	£56.95
CSS18B	35/50mm	457mm	£89.95

Clarke 10" COMPOUND MITRE/TABLE SAW - CMS250

- Max cut depth 50mm
- Blade speed 2850rpm
- Mitre & bevel cutting from 0-45°

MODEL	TYPE	MOTOR (w)	BLADE SPEED	CUT DEPTH 90°/45°	OUR PRICE
Skil 5140H	DIY	400	4200	40/26	£34.99
B&D KS840	DIY	550	3500	40/26	£49.95
B&D KS865N	DIY	1300	4000	65/40	£79.95
Skil 5466	PRO	1350	5500	66/51	£99.95

Clarke CONTRACTORS SAW - CCS305

- Hi/Duty 3hp, 230v motor
- 305mm blade
- Full tilt & mitre up to 50°
- Depth of cut to 70mm
- Adjustable height rip fence
- No Volt Release switch

Clarke WOODWORKING LATHES

MODEL	CTRE TO TURNING CTRE. (mm)	TURNING CAP. (mm)	TURNING SPDS	LUST PRICE	OUR PRICE
CWL6B 20"	508	242	4	£99.95	£79.95
CWL12D 37"	940	305	5	£154.95	£109.95
CWL20R 36"	900	305	10	£299.95	£229.95

* With reversible head and steel stand
† Including 3pc chisel set

NEW FREE CATALOGUE!
252 COLOUR PAGES
691 NEW PRODUCTS
342 REDUCED PRICES

- Collect one from your local branch
- Phone us on **0115 956 5555**
- e-mail us on **sales@machinemart.co.uk**

- B'HAM GREAT BARR** 0121 358 7977
4 Birmingham Rd. Great Barr
- B'HAM HAY MILLS** 0121 771 3433
1152 Coventry Rd. Hay Mills
- BOLTON** 01204 365799
1 Thynne St.
- BRADFORD** 01274 390962
105-107 Manningham Lane
- BRISTOL** 0117 935 1060
1-3 Church Rd. Lawrence Hill
- CARDIFF** 01222 465424
44-46 City Rd.

Machine Mart

where *Quality* costs less

Clarke 12" VARIABLE SPEED BANDSAW - CBS12WV

- Max depth of cut 110mm
- Max throat depth 305mm
- Table tilts 0-45°

Clarke 14" 3 SPEED BANDSAW - CBS355

- Max throat depth 360mm
- 375w, 230v
- Max depth of cut 145mm
- Saw and sanding tables tilt 0-45°
- Includes:
 - Disc Sander
 - Sanding Belt
- Circle cutting attachment
- Mitre cutting gauge

JIGSAWS

MODEL	POWER (w)	STROKES/ MIN	CUT DEPTH	OUR PRICE
B&D KS350	370w	3200	55mm	£18.95
Clarke CJS350*	350w	0-3000	55mm	£22.95
B&D KS633E	400w	800-3200	60mm	£39.95

*CJS350 includes 3 free blades for wood, metal & plastic.

BLACK & DECKER POWER PLANERS

MODEL	TYPE	POWER (w)	MAX. CUT DEPTH	PLANING WIDTH (mm)	OUR PRICE
B&D KW710	DIY	330	0.5mm	82	£36.95
Bosch PH01582	DIY	500	1.6mm	82	£42.95
Skil 1525	PRO	750	2.5mm	82	£84.95

Clarke HAMMER DRILLS

- Electronic variable speed & reverse control
- Drill/hammer selector switch
- Lock button for extended use
- Adjustable front/side handle
- Depth stop gauge
- Drill stands available From £16.95

MODEL	POWER	CHUCK	SPEED (rpm)	OUR PRICE
CHD500	500w	13mm	0-2200	£25.45
CHD650	650w	13mm	0-2800	£33.95

Clarke INDUSTRIAL SHELVING

- Approved to RWTUV/GS standards
- Easy, rapid assembly
- Tough steel framework and high density chipboard shelves
- 150Kg max load per shelf (UDL)
- Shelf adjustment every 39mm

MODEL	TYPE	DIMENSIONS (mm)	OUR PRICE
CSL34003	3 Shelf Unit	900x400x935	£36.95
CSL44004	4 Shelf Unit	900x400x935	£42.95
CSL54005	5 Shelf Unit	900x400x1870	£49.95

SANDERS

MODEL	POWER	SPEED	OUR PRICE
Clarke COS130	140w	11,000rpm	£14.95
Bosch PSS23	150w	13,000rpm	£24.95
B&D KA85EK Belt Sander	600w	80-200m/min	£69.95

Clarke BELT/DISC SANDER - CS4-6C

- 6" sanding disk
 - 500m/min belt speed
 - Dust extraction facility
 - 220mm x 155mm table, tilts 0-45°
 - 4" x 36" belt tilts & locks 0-90°
- Also available:
Industrial Floor Standing Belt/Disc Sander. Only £229.95

Clarke DRILL PRESSES

- Bench & Floor models (B or F)
- Precision engineered bearings, columns and tables

MODEL	CHUCK SIZE	SPD (w)	MOTOR (w)	OUR PRICE
CDP5DD	13mm	5	250	£39.95
CDP100B	13mm	5	245	£59.95
CDP150B	13mm	5	300	£89.95
CDP200B	13mm	12	360	£119.95
CDP250F	13mm	12	360	£139.95
CDP300B	16mm	12	510	£159.95
CDP350F	16mm	12	510	£179.95

Clarke BENCH MORTISERS

- 13mm mortise chisel included
- Powerful 1/2hp motor
- Range of chisels available

MODEL	MAX MORTISE DEPTH	MAX MORTISE WIDTH	OUR PRICE
CBM1	75mm	16mm	£209.95
CBM2	75mm	13mm	£189.95

Clarke BENCH GRINDERS

MODEL	RPM	MOTOR (w)	WHEEL DIA. (mm)	OUR PRICE
CBG5RSC	2800	150	125	£15.99
CBG6RZ	2800	210	150	£18.95
CBG6RSC*	2950	250	150	£29.95
CBG6RL*	2950	250	150	£37.95
CBG8W*	135/2960	275	150/200	£39.95

*Heavy Duty CBG8W features 8" wetstone & 6" drystone.

Clarke DUST EXTRACTOR - CDE7

- Large bag volume
- Powerful 0.75hp, 230v motor
- 610cfm collection capacity

Clarke PORTABLE CHIP COLLECTOR - CDE35

- 2ft³ collection bag
- 1hp, 230v motor
- Can be wall mounted

Clarke WORKBENCHES

MODEL	LENGTH	VICES	OUR PRICE
CHB1450	1530mm	1	£89.95
CHB1400	1530mm	2	£119.95

WOLFCRAFT WORKBENCHES

- Solid wooden construction
- Integral drawer
- Includes pegs and shelf

MODEL	CIRCULAR SAWS (mm)	JIGSAWS	ROUTERS	OUR PRICE
Varitoc 66	Up to 66	All jigsaws	DIY Routers*	£82.95
Pioneer III	Up to 66	All jigsaws	All Routers*	£83.95

*In conjunction with parallel stop and curve guide accessories

Clarke TABLE SAWS
FROM ONLY **£49.99**

*CTS10C Features TCT Blade

MODEL	MOTOR	BLADE	SPEED	OUR PRICE
CTS800	400w	200mm	2800rpm	£49.99
CTS10C*	1400w	254mm	4800rpm	£119.99
CTS10PLM H/Duty	1525w	254mm	4800rpm	£139.95

WAS £159.95
NOW ONLY £139.95
SAVE £20

BOSCH ROUTERS

MODEL	MOTOR (w)	COLLET SIZE	PLUNGE DEPTH	OUR PRICE
Bosch POF500A	500	1/4"	52mm	£69.95
Freud FT1000*	1000	1/4"	55mm	£99.99
Freud FT2000E*	1900	1/4"-1/2"	70mm	£199.95

Clarke ROUTER BITS

- Profiles for V grooves, chamfering, dovetailing etc.

FORSTNER BITS

For angled boring, pocket holes, veneer work, boring half holes and overlapping holes.

MODEL	DESCRIPTION	OUR PRICE
CHT217	15pc set - 1/4" shank	£49.95
CHT218	15pc set - 1/2" shank	£54.95
CHT215	7pc set - 1/4" to 1"	£12.95
CHT216	5pc set - 15mm to 35mm	£14.95

BLACK & DECKER POWERFILE

- 350w motor
- 13mm sanding belt
- Belt speed 1100-1500m/min
- Includes dust bag

Clarke 12 VOLT CORDLESS DRILL/DRIVER SETS

- Variable speed
- Torque control
- Keyless chuck

MODEL	OUR PRICE
CKK1239	£39.95
CKK1216	£39.95

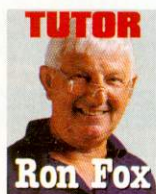
NEW SUPERSTORES TOWER HAMLETS & GLAUCHESTER

- SUNDERLAND** 0191 510 8773
13-15 Ryhope Rd. Grangetown
- SWANSEA** 01792 792969
7 Samlet Rd. Llansamlet
- SWINDON** 01793 491717
21 Victoria Rd.
- TWICKENHAM** 0181 892 9117
83-85 Heath Rd. TW1
- WOLVERHAMPTON** 01902 494186
Parkfield Rd. Bilston
- WORCESTER** 01905 723451
48a Upper Tything

VISIT YOUR LOCAL SUPERSTORE, OPEN MON-FRI 8.30-6.00, SAT 8.30-5.30 ALL PRICES EXCLUDE VAT AT 17.5%

- CARLISLE** 01228 591666
85 London Rd. Chester
- CHESTER** 01244 311258
Black Diamond St. Coventry
- COVENTRY** 01203 224227
Bishop St.
- CROYDON** 0181 763 0640
423-427 Brighton Rd. South Croydon
- DARLINGTON** 01325 380841
214 Northgate
- DERBY** 01332 290931
Derwent St.
- EDINBURGH** 0131 659 5919
163-171 Piersfield Terrace
- GATESHEAD** 0191 493 2520
50 Lobley Hill Rd.
- GLAUCHESTER** 01452 417 948
271A Barton St.
- GRIMSBY** 01472 354435
Ellis Way
- HULL** 01482 223161
8-10 Holderness Rd.
- LEEDS** 0113 231 0400
227-229 Kirkstall Rd.
- LEICESTER** 0116 261 0688
69 Melton Rd.
- LIVERPOOL** 0151 709 4484
88 London Rd.
- LONDON** 0171 488 2123
100 The Highway, Tower Hamlets E1 9BX
- LONDON** 0181 803 0861
6 Kendal Parade, Edmonton N18
- LONDON** 0181 558 8284
503-507 Lea Bridge Rd. Leyton E10
- MANCHESTER** 0161 941 2666
71 Manchester Rd. Altrincham
- MANSFIELD** 01623 622160
169 Chesterfield Rd. South
- MIDDLEBROUGH** 01642 677881
Maddale triangle, Thornaby
- NORWICH** 01603 766402
Heigham St.
- NOTTINGHAM** 0115 956 1811
211 Lower Parliament St.
- PETERBOROUGH** 01733 311770
417 Lincoln Rd. Millfield
- PLYMOUTH** 01752 254050
58-64 Embankment Rd.
- POOLE** 01202 717913
137-139 Bournemouth Rd. Parkstone
- PORTSMOUTH** 01705 654777
277-283 Copnor Rd. Copnor
- PRESTON** 01772 703263
53 Sheffield Rd.
- SHEFFIELD** 0114 258 0831
453 London Rd. Heeley
- SOUTHAMPTON** 01703 557788
516-518 Portswood Rd.
- STOKE-ON-TRENT** 01782 287321
382-396 Waterloo Rd. Hanley

Router **technical** Template techniques



TUTOR **Ron Fox** begins an in depth look at essential routing techniques

GUIDEBUSH work is a very creative and productive area of routing, but when I get to the guidebush section on my courses I am frequently met with two objections from the students.

"Guidebushes and templates imply batch work, and I am only an amateur, so I will never do any batch work." And, "ok, give me a guidebush and a template and I'll cut something out, but how do I make the template?"

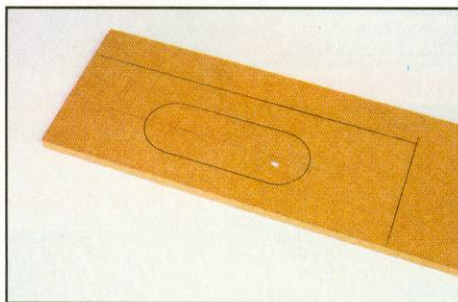
My answers to these two objections are firstly, don't be too sure that you will never want to make a batch of something, and second, there are many useful templates that can be made easily, often using the router itself.

"The actual dimensions are not particularly critical"

Making templates

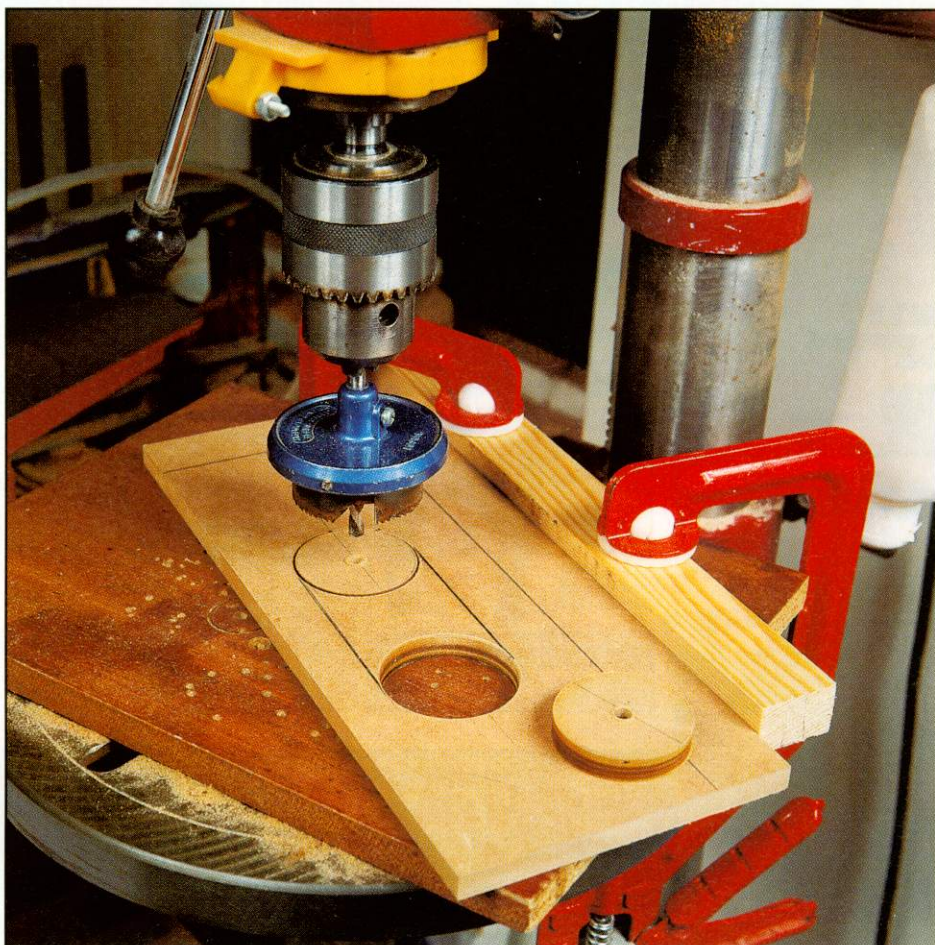
Taking the first point, you might like to make some photo frames. If you have the template, labelled with what it was made for, and what size cutters and bushes were used, you can turn out an identical batch a week, a month, or years later.

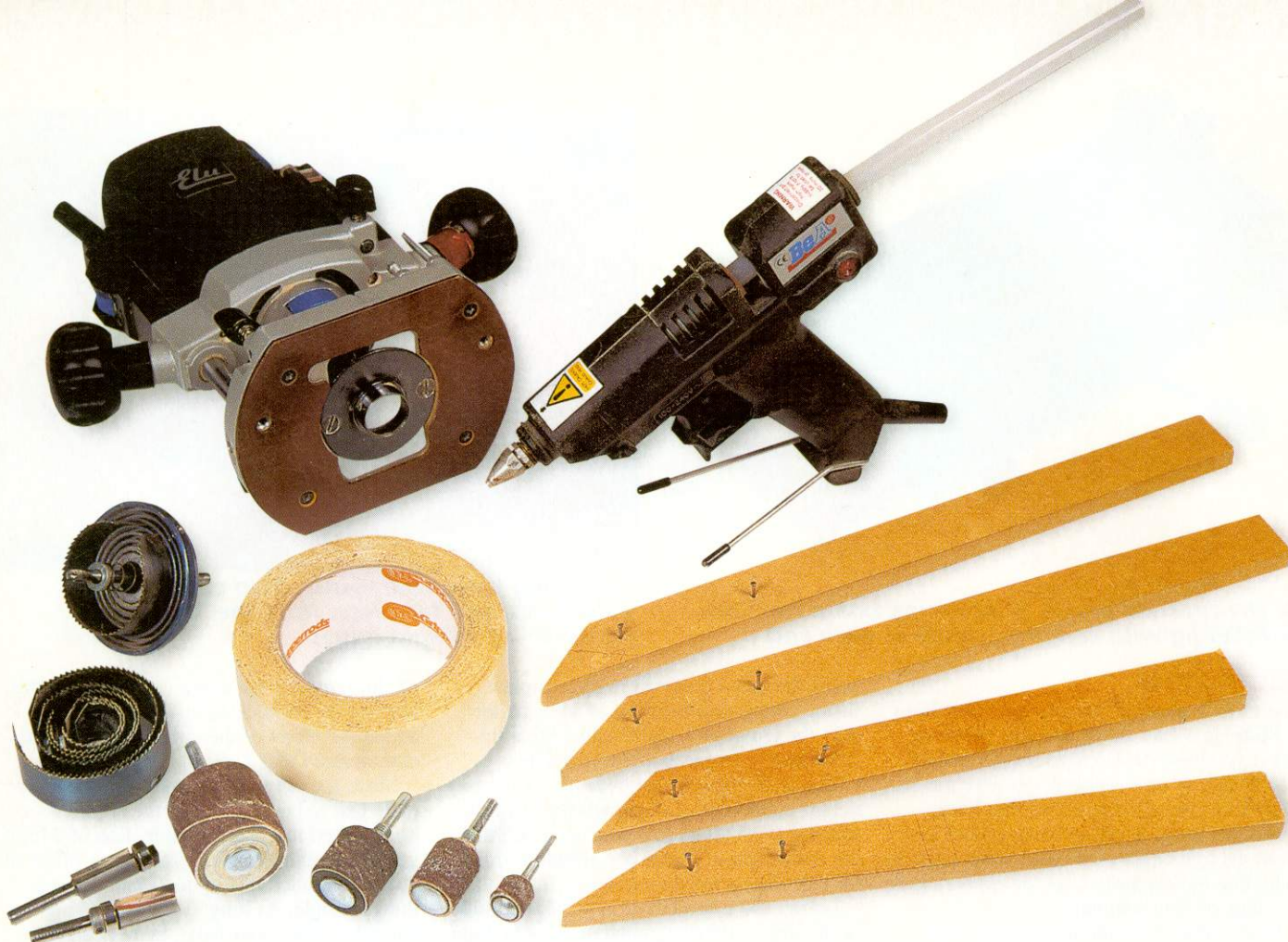
▼ *Outline of handhold template, drawn on MDF*



▲ *The Elu 96, HolzHer 2356, Bosch 1700 ACE are good with guidebushes*

▼ *Hole being cut with hole saw, first disc cut in shot*





▲ *Template-making tools: hole saws, sanding bobbins, router and cutters, hot-melt glue gun, double sided tape and four 'sticks'*

Many beginners are put off by the thought of making templates. It is true that if you want a template for a complicated project your template will be complicated too, but there are many simple projects where the template required is easy to make, and where the actual dimensions are not particularly critical. This article describes the construction and use of a few of these.

▼ *Template being finished with router, profile guide-cutter and straight edge*



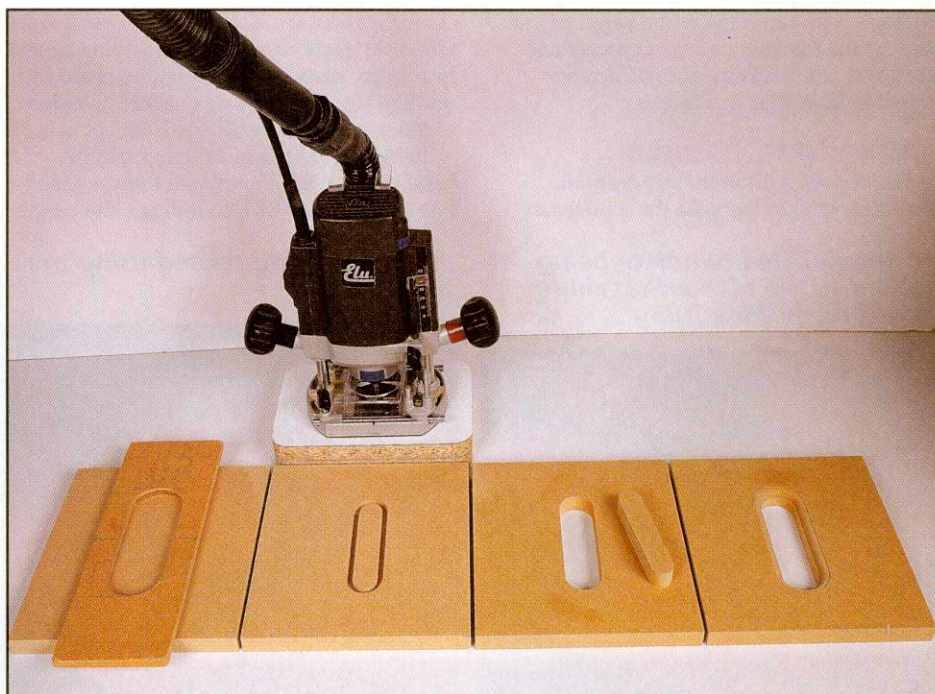
Tools for templates

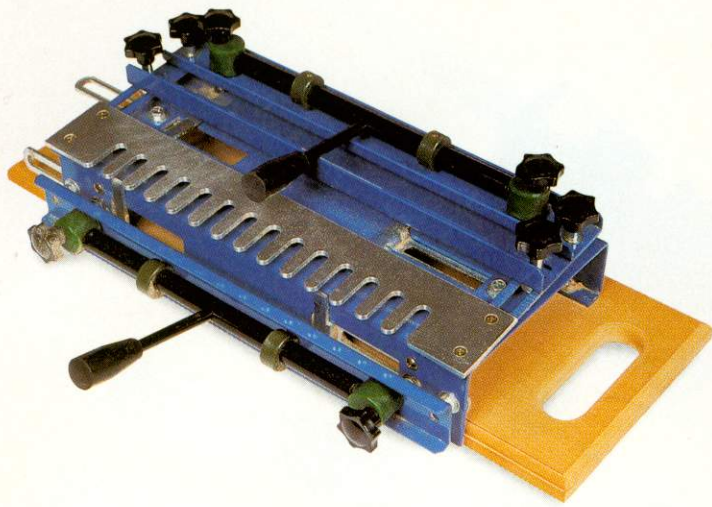
The ultimate tool for template making is the scrollsaw, but for the templates we are going to make it is not necessary. A set of hole saws, a drill in a stand, one or two sanding bobbins and a couple of standard router cutters are all that is necessary –

plus the usual oddments of hand tools and abrasives.

A hot melt glue-gun and double-sided tape are invaluable for many of the odd jobs that arise.

▼ *The template used in sequence*





▲ The finished article, a mounting board for Titan dovetail jig with carrying handle at each end

Materials

The most convenient material for templates is MDF. It is flat, stable and easy to work, but if you have declared yourself an MDF-free zone you can use plywood. Use the best quality birch ply for good results; lower grades are more likely to twist, do not give clean enough edges, and often have voids in them that have a nasty habit of appearing on the edge of your template.

Some people recommend 6mm MDF for templates, but most of mine are made in 9mm MDF, with the occasional 12mm. Consider how far your guidebushes protrude from the router base. This will determine the minimum thickness of template required.

Also consider how deep your router plunges and the workpiece thickness. If you have an Elu 96, or a HolzHer 2356 or Bosch 1700 ACE, your collet plunges through the router base.

This means that provided the guidebush is of sufficient diameter to let the collet through, you can retrieve the depth of cut lost by the thickness of the template and therefore use thicker material for your template and your workpiece.

Template basics

A template is a different size from the resulting product because the guidebush

▼ The finished template being tacked to the marked-up chip-board ready for cutting



holds the cutter away from the template. Inside cuts give a finished article smaller than the template, outside cuts give a finished article larger than the template.

The difference in size depends on the particular combination of guidebush and cutter, and has to be taken into account when making the template. There is a simple formula for calculating the offset, *see fig 1*.

I often use a combination of 24mm guidebush (size is always quoted as outside diameter) and 1/4in cutter. Pretending for a moment that 1/4in is the same as 6mm, the calculation results in an offset of 9mm, as $24 - 6 = 18$; $18 \div 2 = 9$.

The actual size of the finished template is often not critical, so the above approximation is adequate. There's a useful ready-reckoner table in the Trend Routing Catalogue which gives the offset for any given combination of guidebush and cutter diameter. We can now make and use a few simple templates.

Template for a handhold

Often we might want to cut a carrying handle in a board, such as for a mounting board for a dovetail jig. The template consists of a piece of 9mm MDF with a rounded slot cut in it.

To obtain the required size, I laid my hand on the MDF board and drew a pencil line on each side of it to indicate the length

▼ A hole being routed using the template



▲ Cutting table with router, 1 1/4in cutter, 24mm guidebush, and template. Note the 'universal template' of straight edges

of slot required. I chose a convenient width, added a bit for luck all round and then added the offset of the guidebush/template combination that I would be using.

Since the cut was an inside cut, the template had to be bigger than the required hole. I used my usual combination of 24mm guidebush and 1/4in cutter, giving an offset of 9mm. I rounded this up to 10mm to keep things simple. As long as the hole is big enough to take your hand, there is no specific size.

Having drawn the outline of the template I cut a circle at each end with one of my hole saws. I then cut out the waste with a jigsaw and joined the two circles with two straight cuts, made by taping a straight piece of MDF to the template and running along it with a flush-trimming cutter in my router.

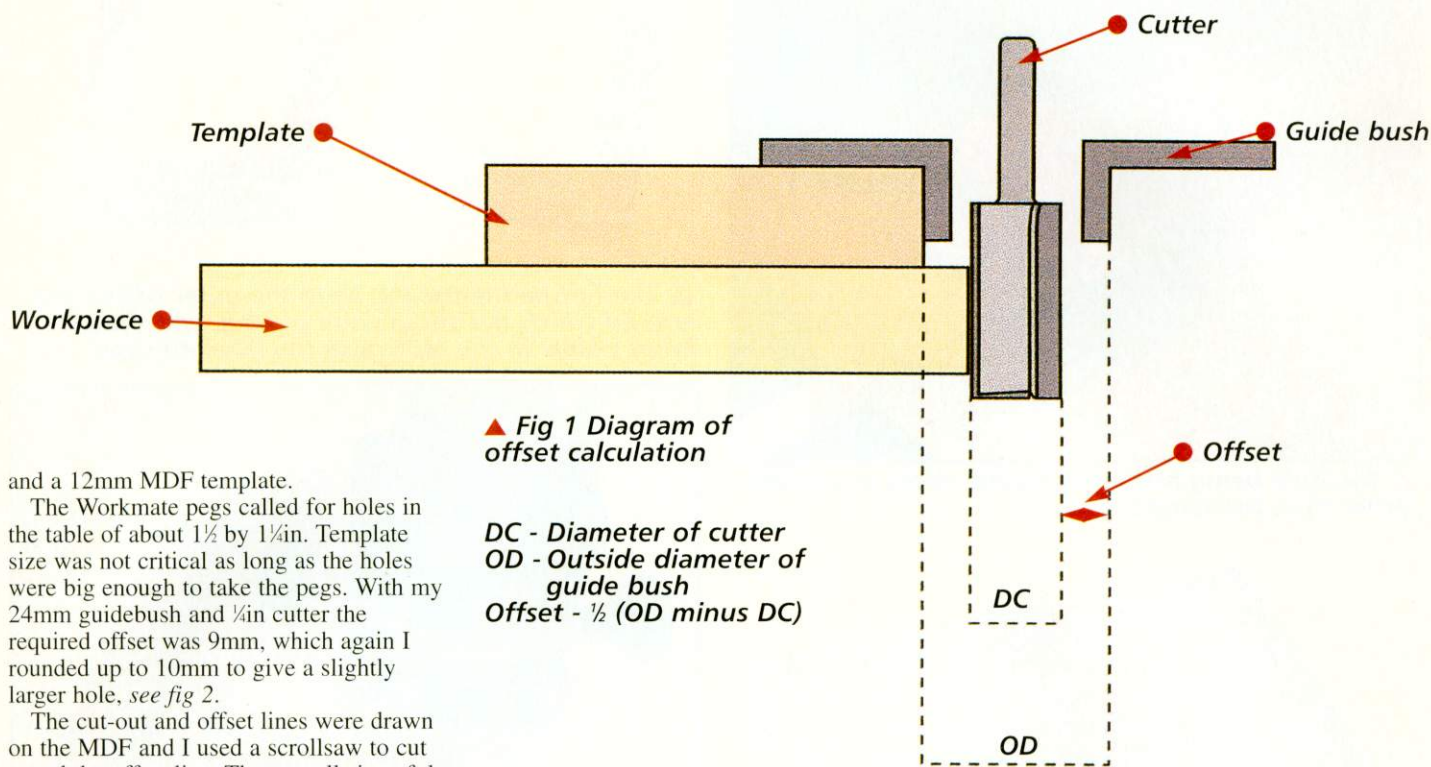
When making small templates, do all the work on the end of a larger board before cutting them off. The handhold was finished by moulding the upper edge with a bearing-guided ovolo cutter.

Holes for Workmate pegs

In TR14 I described my sacrificial cutting table which fits over the pegs on my Workmate. The holes for this were cut with a Perles OF 808E router using a guidebush

▼ The straight edges being nailed around the offset line on the chip-board





and a 12mm MDF template.

The Workmate pegs called for holes in the table of about 1½ by 1¼in. Template size was not critical as long as the holes were big enough to take the pegs. With my 24mm guidebush and ¼in cutter the required offset was 9mm, which again I rounded up to 10mm to give a slightly larger hole, see fig 2.

The cut-out and offset lines were drawn on the MDF and I used a scrollsaw to cut round the offset line. The overall size of the template should be such that the base of the router is firmly supported.

For straight side cuts it isn't necessary to make a template at all. A few straight pieces of MDF, one for each side of the figure to be cut, are all that is needed for a 'universal template'.

With four of these for the rectangles in the cutting table, the required cut-out and offset are drawn as before, and the four straight edges - 'sticks' - are tacked around the offset line. The hole is then routed as before.

You can actually use the sticks to make the template. Draw the outer line the distance of the offset - 10mm - outside the first offset line. If you draw these lines on your piece of MDF and nail or tape the sticks around the outer line you can use your router and guidebush to cut the template.

This gives us the power to make any template that only involves straight lines by using the router itself. The size of guidebush is not important as long as you allow for it in the dimensions of the template, but you should use a narrow cutter in order to make the corners of your internal angles as sharp as possible. I always use a ¼in cutter, and the resulting corners need no squaring. This technique can be used to make a template for a photo frame.

Photo-frame template

This template calls for precision in the internal cuts and also requires two different-size guidebushes. The rebate on the back of the frame is made to take whatever size print is intended.

I made one to take a 6 by 4in standard print. This is the size of the rebate; the front aperture is smaller than this to provide support for the glass and the photograph. I would first locate the source of my glass

and make the rebate to accommodate this.

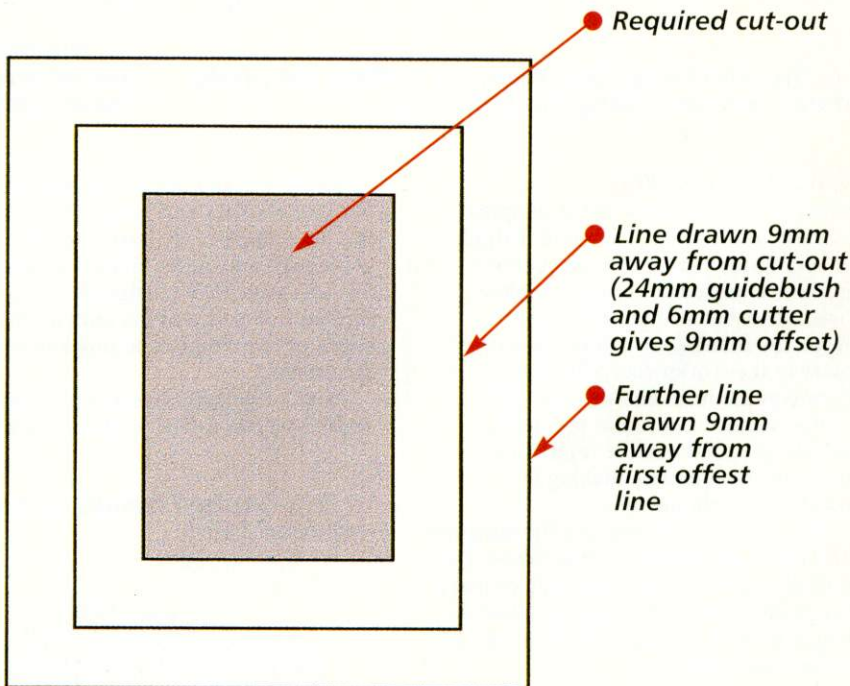
Start by drawing a rectangle the size of the required rebate. Take a medium-sized guidebush and a narrow cutter. I use my 24mm guidebush and ¼in cutter with the offset rounded up to 10mm.

Draw this 10mm offset line around the rectangle already drawn for the size of the rebate and then draw another line 10mm

outside this one. Pin or tape the sticks around the outer line, and cut out the internal part of the template.

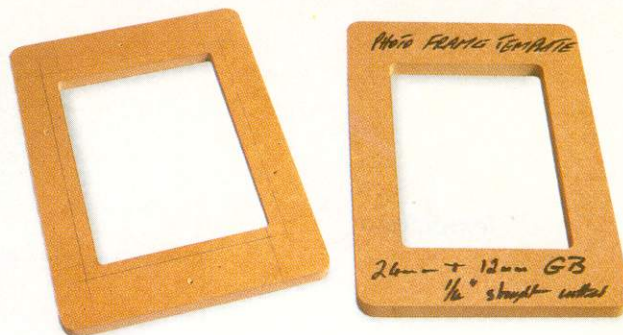
Repeat the process for the outer edges of the template, making allowance for the offset. The outside doesn't present the same problem as the inside aperture, but I chose to use the template for both inner and outer edges.

▼ Fig 2 Using straight edges to make a template





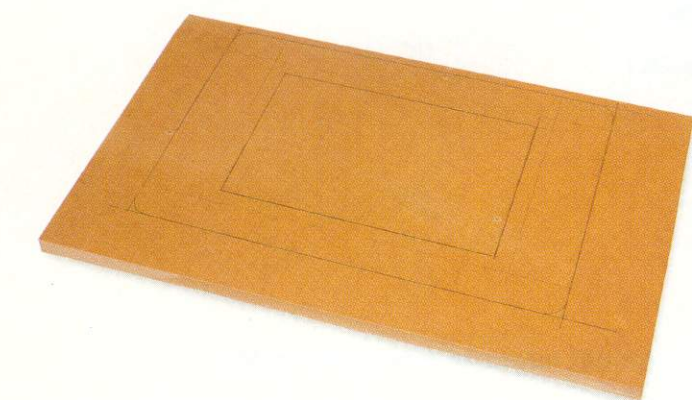
▲ The hole being routed using the sticks as a guide rather than the template



▲ The finished template. Note the outer offset line around which the sticks were pinned, and the pinholes visible in the MDF, plus the labelled copy



▲ The template on the workpiece with packing pieces around the outside to stabilise the router, made with scraps of MDF and a hot-melt glue gun



▲ The marked-up MDF ready for cutting the photo frame template using the four sticks

Construction

Make a back-up copy of the template in case you lose or damage it; Tufnol is very hardwearing. For the photo frame we make use of one template, one cutter, but two guidebushes. Begin by pinning or taping the template to the workpiece. With the 24mm guide bush and the $\frac{1}{4}$ in cutter in the router, I cut round the inside (clockwise) and outside (anticlockwise) of the template making a number of light passes.

The inside is easy because the template provides a stable base for the router. The outside is a different matter and, to make life easier, tape packing pieces equal in height to the top surface of the template around the workpiece.

Having cut the inside and outside shapes of the frame, change the guidebush to a smaller one to cut the rebate. I use a 24mm bush for the first cuts and a 12mm bush for the rebate.

With the 12mm bush and the $\frac{1}{4}$ in cutter the offset reduces from about 9mm to 3mm. The depth of cut is set to about $\frac{1}{4}$ in and the cut made in one pass. This creates the rebate in the back of the frame.

This dimension is critical, and is

carefully worked out in conjunction with our guidebushes and cutters when making the template. By correct choice of guidebush and cutter sizes, we can make the first cuts, then change the bush to a smaller one and pull the cut closer to the edges of the template in order to make the rebate.

Think of guidebushes as a system by which you can follow a template and push

the cut further away from the template or pull it in closer to the template by changing the guidebush, cutter or both.

Having cut the frame I chose to pick out the inside rectangle with a little bearing-guided Roman ogee cutter, using only the bottom 3mm or so of the cutter. I embellished the outside edge with the same ovolo cutter as used in the handhold. The result is quite attractive. ●

▼ Two finished frames, one shows the rebated back, the other the moulded front



freud®

Precisely what you need

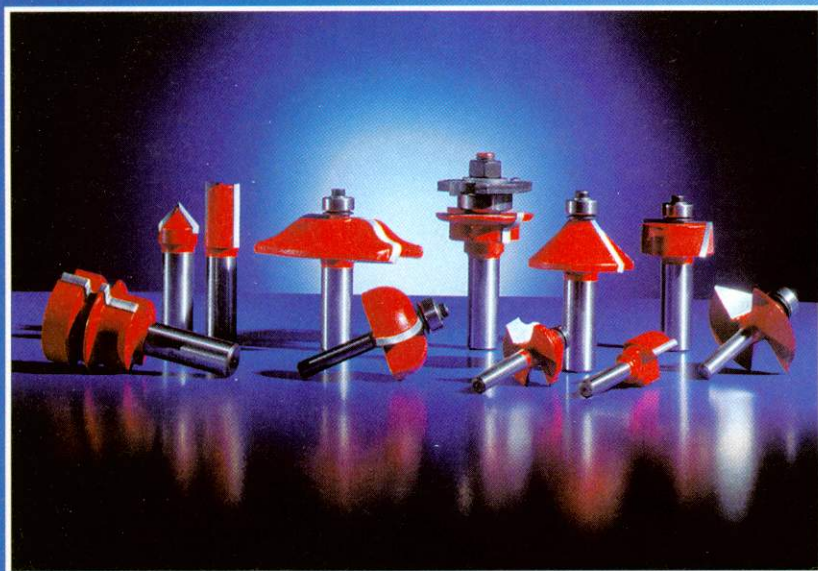
Manufacturer of industrial quality
tooling at craftsman prices

ROUTER BITS

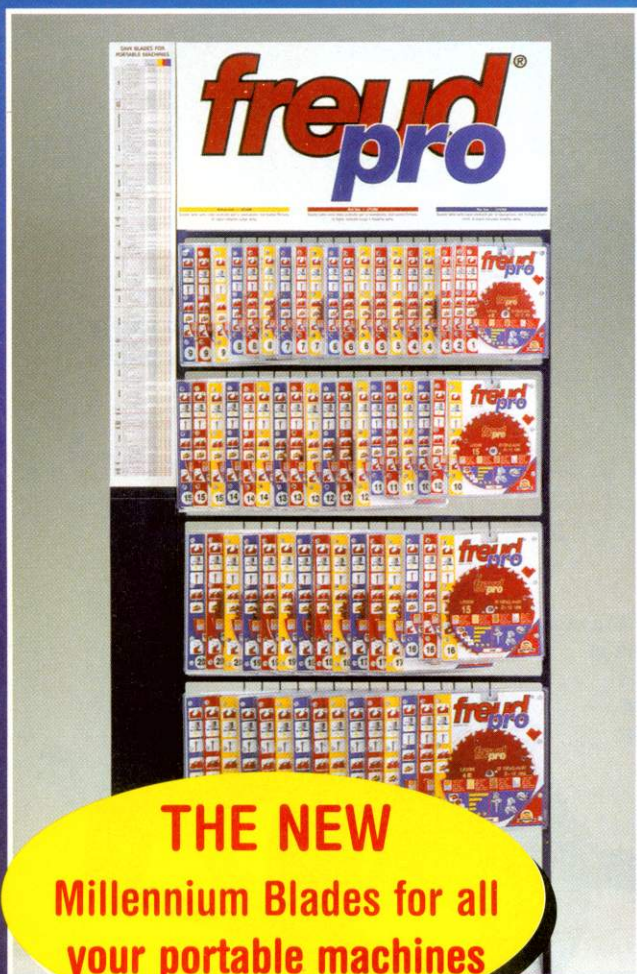
A wide range of router bits with high performance features:

- Super micrograin carbide with titanium
- Anti-kickback design
- Computer balancing
- Shear angle
- Advanced tri-metal brazing
- Multi-axis grinding

ASK FOR A FREE
CATALOGUE



FREUD PRO SAW BLADES



FREUD POWER TOOLS RANGE



THE NEW
FT1000
ROUTER MACHINE
1000
WATTS

☐ **ROUTER FT2000
1900 WATTS**

☐ **BISCUIT JOINER JS102**

☐ **JIG SAW FJ85 - 550 WATTS**

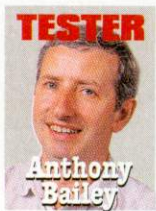
ALL MACHINES AVAILABLE
240V AND 110V

freud®

Precisely what you need

Freud Tooling UK Limited, Unit 3 Emmanuel Trading Estate
Leeds LS12 1AT Tel: 0113 245 3737 Fax: 0113 243 8883

Freud for thought



TESTER Anthony Bailey gets off the couch to test the new Freud FT 1000E

FREUD have never had lots of power tools in their range, but those they do make have proved popular on grounds of price and specification. There's the biscuit jointer for example, with its low cost and high performance, or the big FT 2000 router with 2000W of power, and fine height adjustment knob ideal for table mounting, and at a budget price. So when Freud introduce a new smaller router it is definitely worth getting excited about.



▲ The small cone collet, the motor collar is a tight fit in each base

▼ Note the Allen keyed locking of the mounting collar for the motor body



▲ The Freud FT1000E with side fence and dustshield

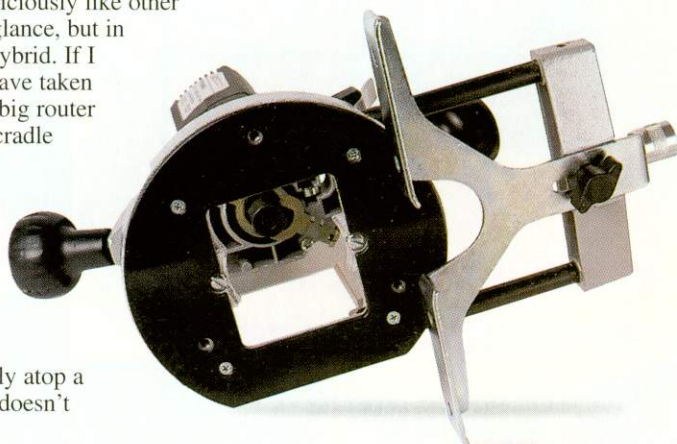
"Its wide, heavy base means it'll never blow over in a high wind!"

First impressions

The FT 1000E looks suspiciously like other similar machines at first glance, but in fact is a slightly strange hybrid. If I am not mistaken, Freud have taken the base and fence of the big router and grafted a supporting cradle plus motor body onto it, thereby saving some cost and design work.

Thus is borne a router with more power than the average lightweight model, with a 1000W sitting easily atop a rather substantial base. It doesn't

▼ A big cutter opening





▲ The standard trimming base, but no roller follower to match

seem unduly cumbersome, though it's a little heavy when you pick it up. Its wide, heavy base means it'll never blow over in a high wind!

Consequently it has very punchy plunge return springing, with a shaped cast alloy lock lever and a massively unrealistic cutter-opening in the base. The FT 1000E therefore accepts all the big machine's guidebushes and also has the same clear plastic chip guard, three-stage depth setting turret and dustspout.

Specifications

Freud FT 1000 E

Motor input	1000W
No-load speed	20,000 – 30,000rpm
Collet size	1/4in
Weight	1.45kg
List price	£205.62 inc VAT

The scalloped handgrips are comfortable save for a ridge of plastic on each which just needs scraping off. An opportunity to fit a more sophisticated depth stop has been lost, as it has just a simple scaled rod with nothing to prevent it falling out.

There is a small spindle lock button for cutter changing, the collet is a simple loose-fitting type that doesn't need to snap into the collet nut. The on-off switch is a sprung slide type with a snap action, and there is an easily-set speed change thumbwheel on top of the motor casing.

The added value in this case is the two optional trimming bases that are supplied along with the very tough blow-moulded carrying case. One has lockable fine height adjustment and the other, while offering fine height adjustment by turning a tooth-head gear using a screwdriver, has the primary advantage of tilting for angled work, such as applying a bevel using a straight cutter.

The former is shown in the manual with a small roller guide fitted under it, the holes exist to attach it but it isn't supplied in the kit. This would allow accurate working around a shaped workpiece.

On test

Not the smoothest of motors. The bearings may not be precision enough, or the motor may need better balancing for smooth running at high speed. It has plenty of power, but a little more would take it into the 'super router' league with the DeWalt DW621, although it lacks that degree of sophistication.

Certainly very stable, it is quite heavy for some lightweight operations that need less mass to move around, especially with such a heavy fence attached. When the motor is transplanted to the trimmer bases it is a bit top heavy and less stable. It is quite difficult freeing or inserting it into each base, and the collet nut fouls the spindle lock on the router base proper.

Conclusion

A picture in the manual shows the same machine labelled

'Casals', so I think we can take it that they have produced the motor. Not the best, but still a very usable machine. Overall though, I think this is a confused router, being neither small or big, but both at the same time.

In a market full of routers, a number of which are quite sophisticated, this Freud machine faces a bit of an uphill struggle. More care and money in the design and manufacture would have paid off. However, at the price, it does put useful power at your fingertips. ●

▼ Two for the price of one! The alternative trimming base



The KWO logo is displayed in a bold, yellow, stylized font with a black outline, set against a grey rectangular background.The Versofix logo features the brand name in a white, italicized, sans-serif font with a registered trademark symbol, enclosed within a white rectangular border.

The New Generation of Tungsten Carbide Straight Bits

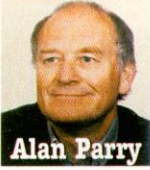
- Disposable Tungsten Carbide double sided inserts with Kawedur coating for maximum durability.
- No more re-sharpening, ready to use with diameter always correct.
- Suitable for plunge cutting.
- Available in 1/4" and 1/2" Shank sizes as well as standard Metric.
- All Versofix cutters conform to German BG-Test making them suitable for hand Routers.

A close-up photograph of a Versofix router bit, which has a black body with a silver-colored cutting edge and several cooling holes. The bit is shown in the process of cutting a hole into a piece of light-colored wood. A small, circular wood chip is visible on the surface of the wood, and another piece of wood is partially visible in the background.

For full details of our Versofix Router cutters and many other innovative products please ask for a copy of our free Retail 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

MAKER



Alan Parry

Great gate

Alan Parry gets going in the garden to build a sturdy gate

I WAS recently asked by a friend to replace a gate and fence which had fallen into serious disrepair. He wanted a stout, strong gate which would have the same look and texture as the proposed fence panels. With this in mind I decided to use timber with a sawn finish.

Gate design

The basic design of the gate is rectangular, with three rails tenoned into the stiles and infilled with vertical rebated boards. So that the boards can finish flush with the stiles, the bottom and middle rails are thinner than the top one. To improve security the boards are also rebated into the stiles and top rail.

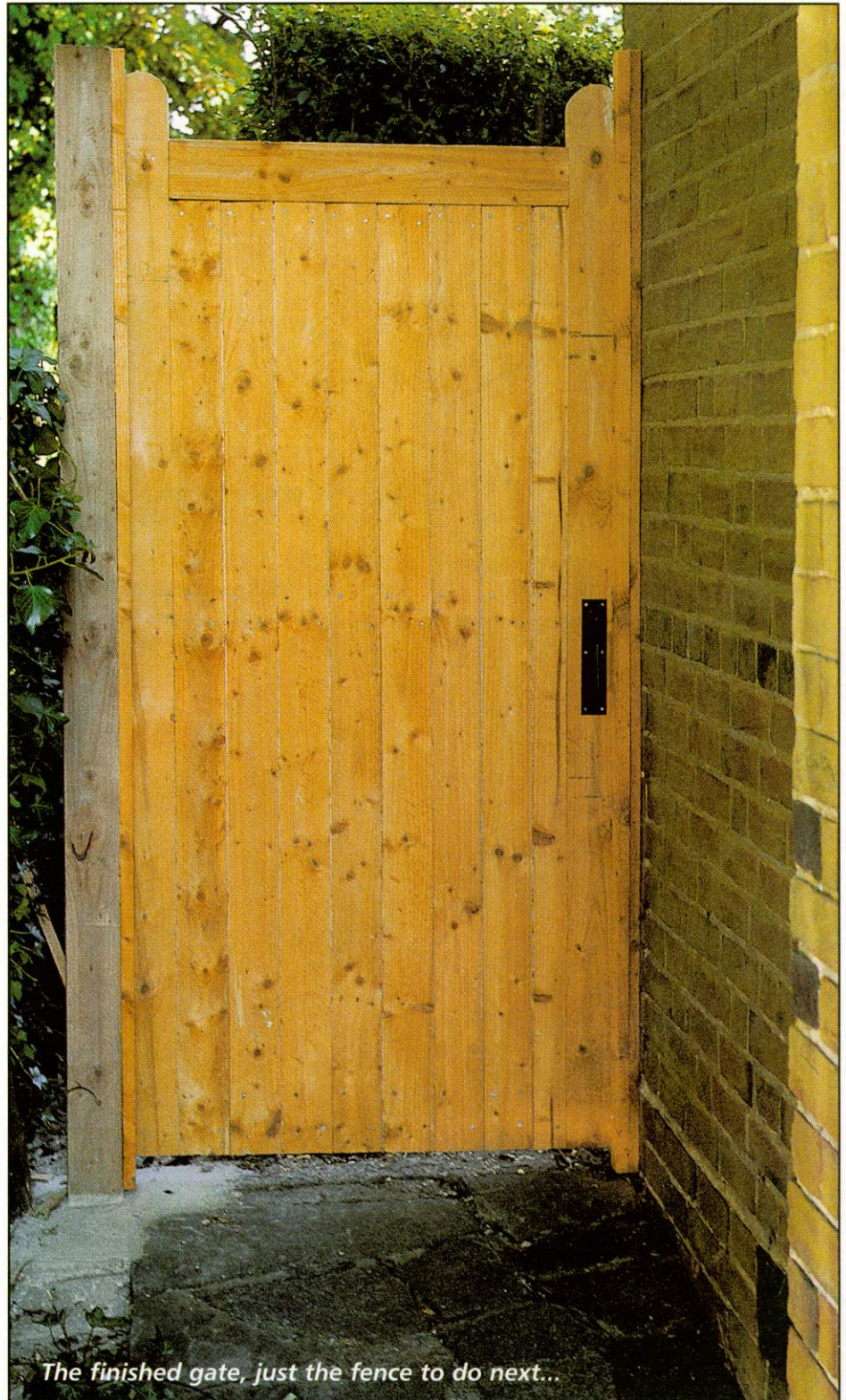
Whilst the gate is no great piece of joinery, it has to be made well to give a long and trouble-free life in all weather conditions, with the minimum of maintenance.

Making the stiles

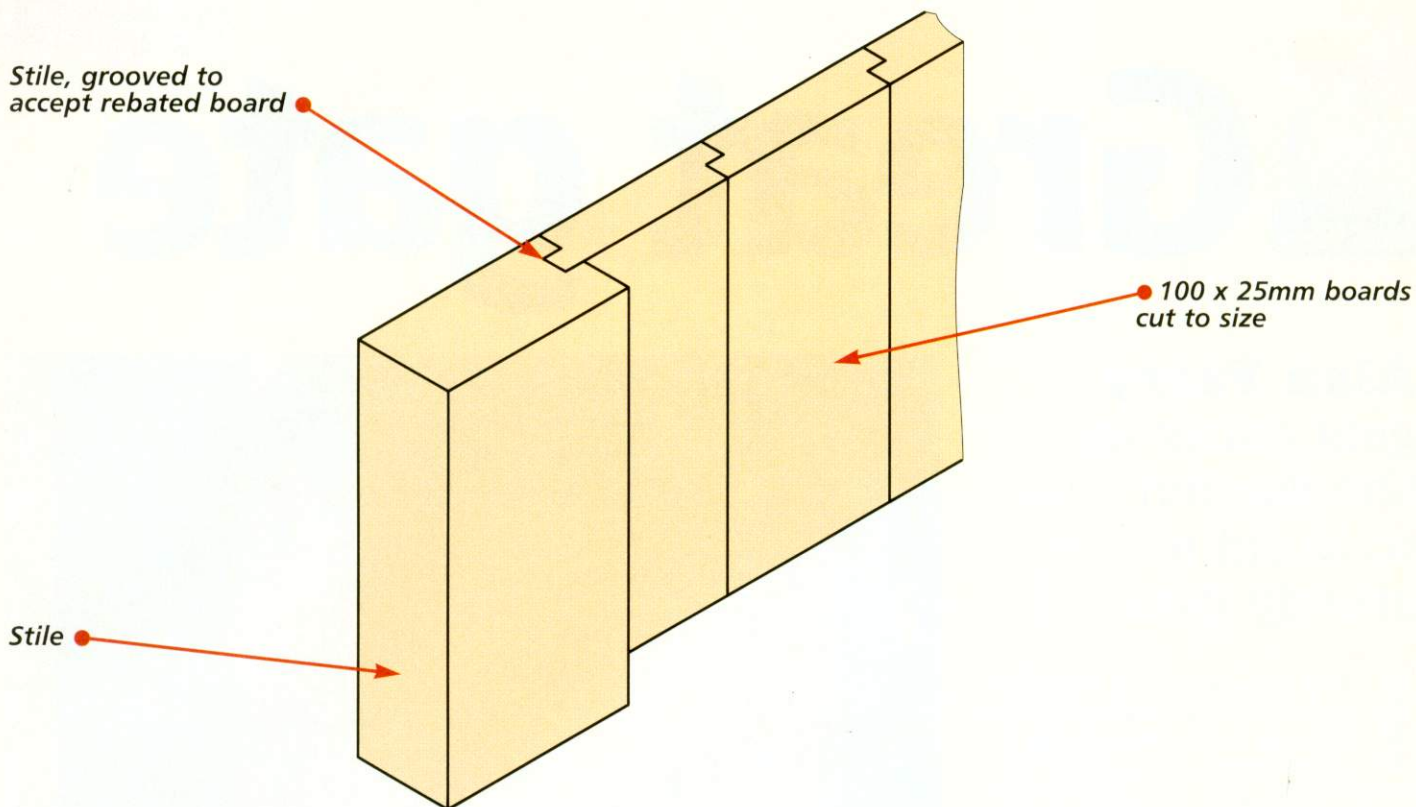
Cut the stiles to length and round off the top ends by sawing away most of the waste. Finish to the line with a belt sander. Next, mark out the position of the mortices and bore them out with the router and a two-flute cutter.

There are two ways to bore deep mortices. One way is to cut from each side of the stile towards the centre, the other is to use a long shank cutter. If you decide to use the long shank method it is essential to take shallow passes to prevent it breaking.

When the mortices are complete, secure the stiles one at a time in a vice, and mark the position of the groove that will accept the rebated boarding. Set up the router with a 12mm diameter plunge cutter with two fences as a guide. Cut out the groove in several passes to a depth of 12mm. Use the same technique to cut out the top rail.



The finished gate, just the fence to do next...



Rebating the boards

▀ This is quite a straightforward operation. Set the depth stop to 10mm, and using two fences to keep the router on track, cut one rebate along one front long edge, and

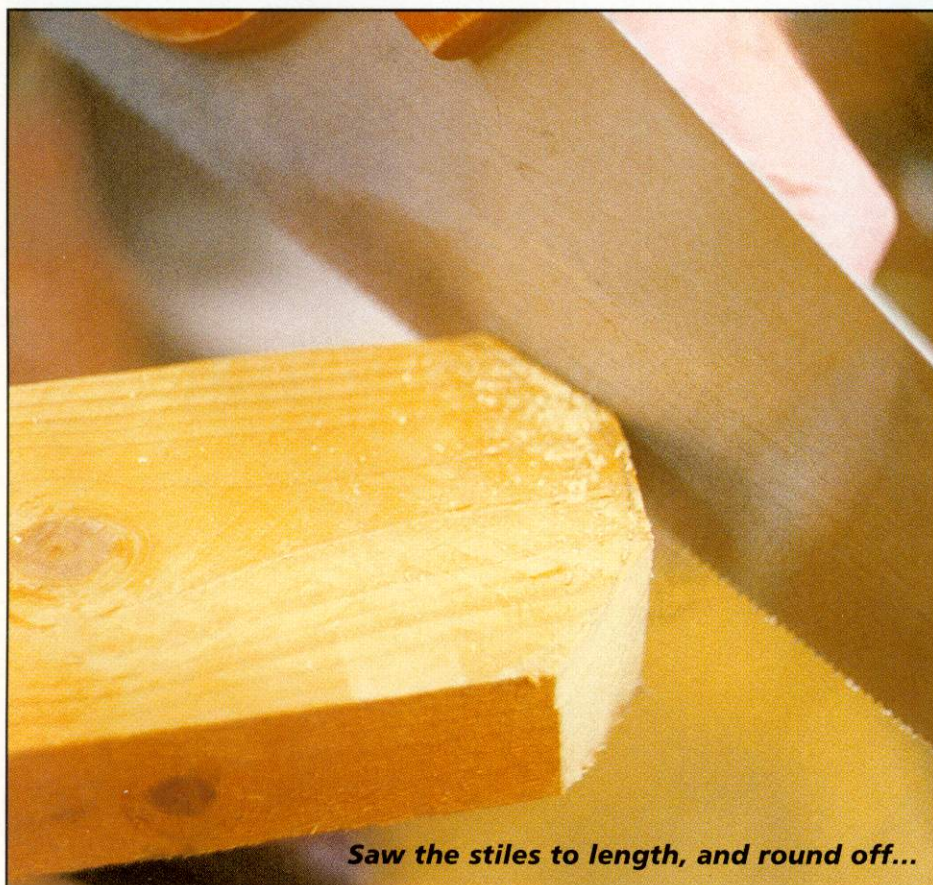
diagonally opposite the rear edge. Then rebate the top back-edge of each board.

Cutting rails

Cut the three rails to size, taking care that

the thickness of the middle and bottom rails are the same. Mark out and cut the top rail through-tenon and bare face tenons using the router inverted in a table.

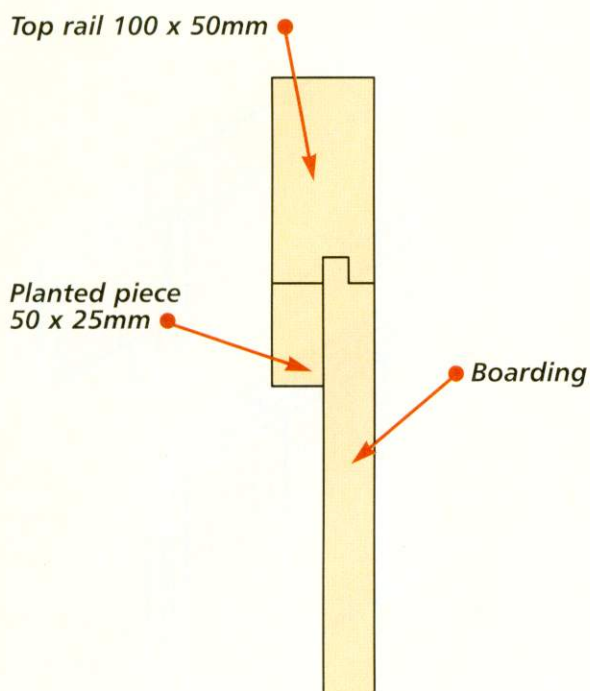
If a table is not available the tenons can



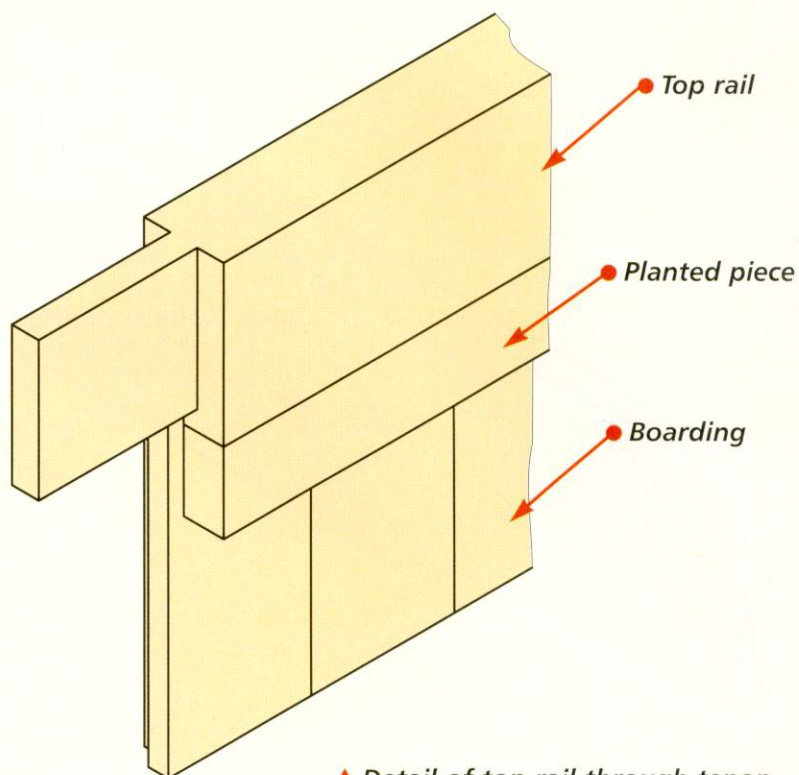
Saw the stiles to length, and round off...



...on the belt sander



▲ Section through top rail



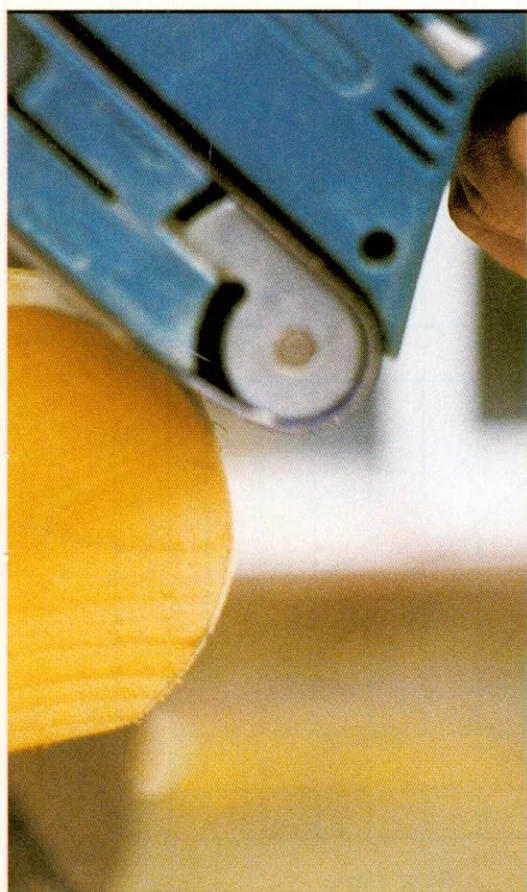
▲ Detail of top rail through tenon

be cut with a saw. Cut the planted piece to match the shoulder-to-shoulder width of the top rail. The tenons need to be rounded over with a sharp chisel in order to fit the rounded end mortices.

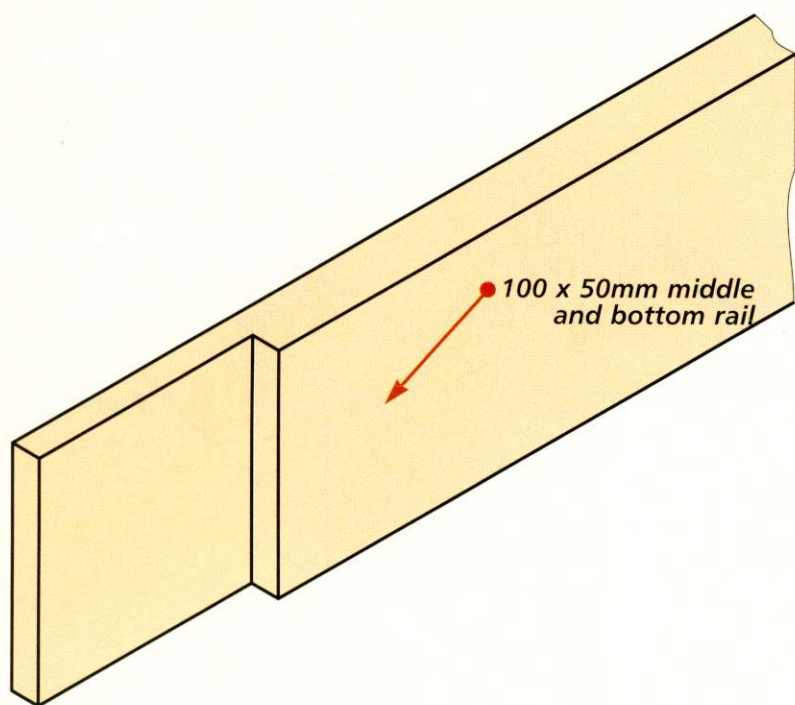
Assembly

When all the parts have been made, dry assemble them to ensure a good fit. Make any necessary adjustments. The last rebated board might need slight width adjustment,

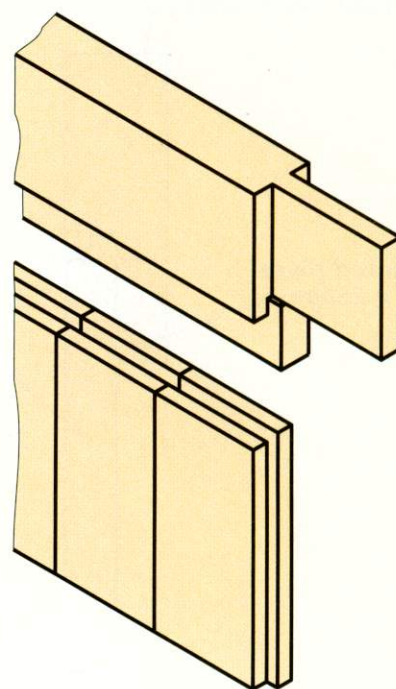
and needs to be slid in from the bottom, whereas the other can be pushed into place sideways. The adhesive must be a waterproof one, such as epoxy resin, polyurethane or Cascamite.



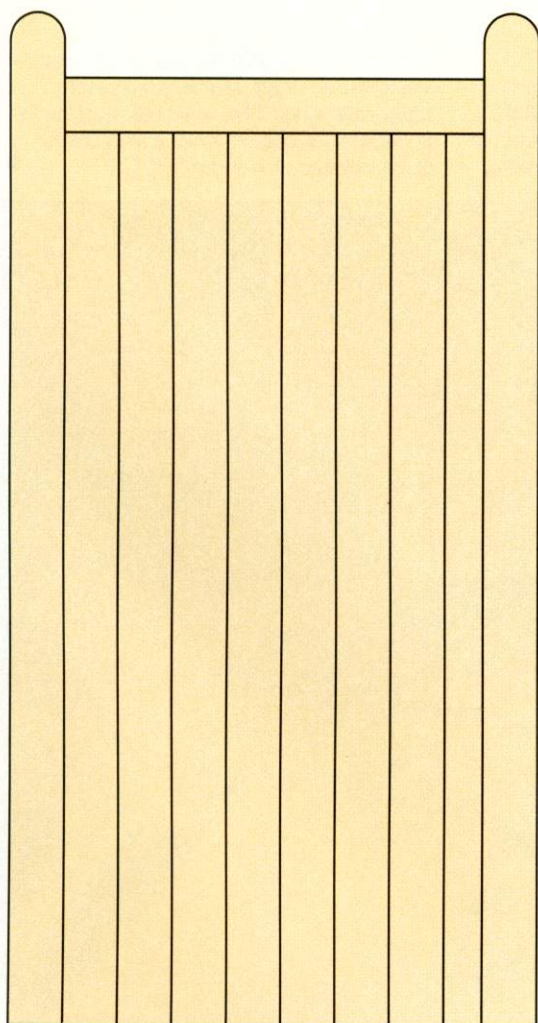
Bore the mortices with the router and a two-flute cutter



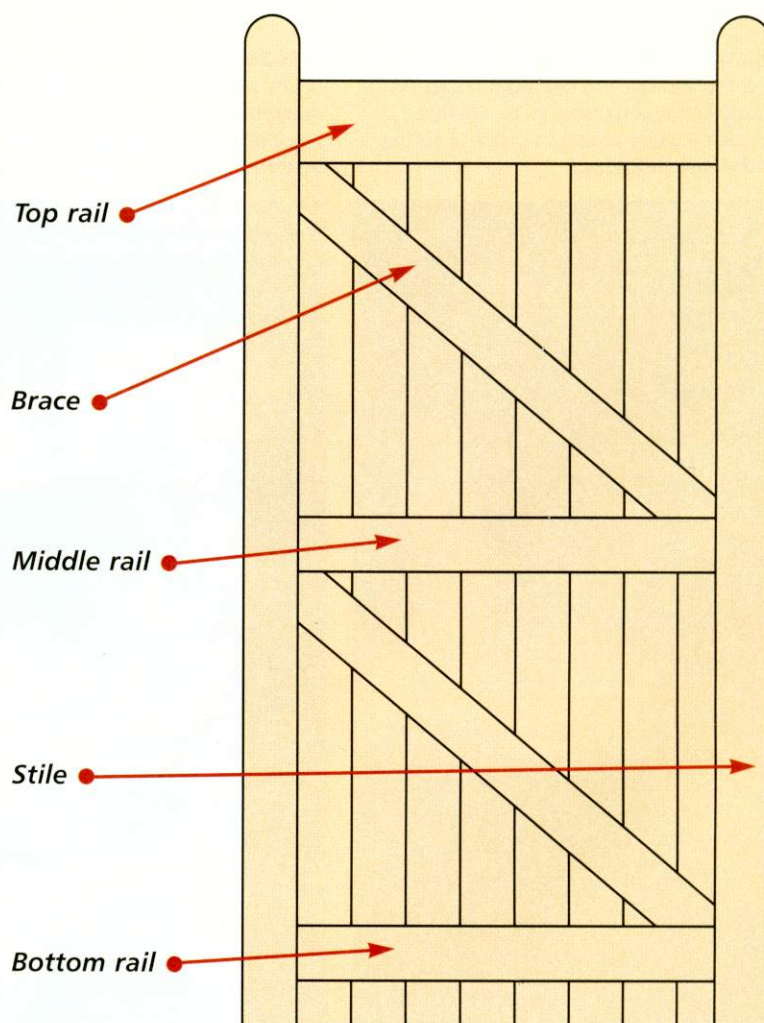
▲ Detail of bare faced tenon



▲ Reverse view of the top rail through tenon



▲ Front view



▲ Rear view



▲ *Routing the groove for the rebated boarding*

◆ Polyurethane adhesive has the advantage of being able to glue damp wood. On curing, polyurethane foams, which means it must remain cramped until it has set. If it is not cramped it will push the joints apart. However, because it foams, it has excellent gap-filling properties, ideal if your joints aren't always tight!

Apply the adhesive to the tenons, then assemble, cramp and leave to dry. When the frame can be handled, fit the rebated

boards in place and secure with galvanised nails. Lastly, cut the braces and nail them in place. The braces are needed to prevent the gate sagging and going out of square.

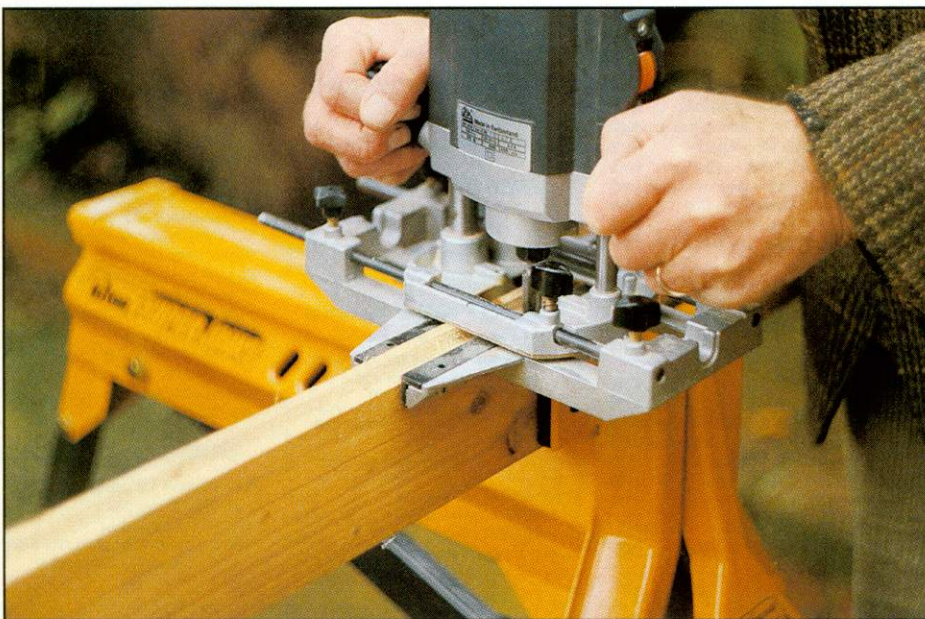
Reinforce each tenon with a couple of hardwood or steel star dowels for added strength. The router can be used to drill holes for the hardwood type. Fit some abrasive paper to the end to stop it slipping about, and fit a long straight

cutter. Trim the bottom of the gate if the boards are not quite even, using a router and a straight edge.

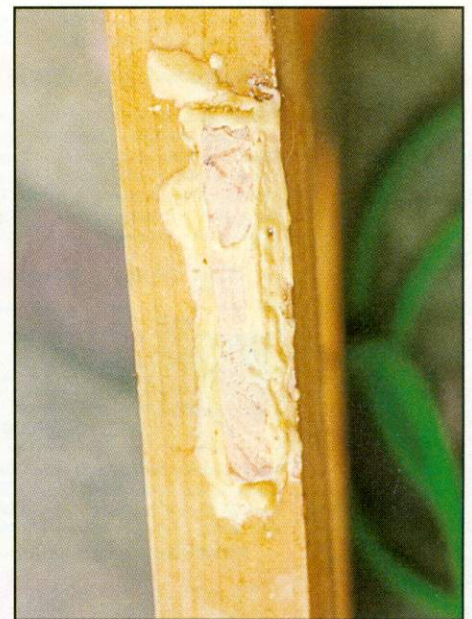
Hanging the gate

The gate is heavy and had to be hung on three stout T-hinges screwed to a post set in concrete. The final job was to fit a slamming post to the wall, two slide bolts and a Suffolk latch. My next job is to start on the fence... ●

▼ *Cut a rebate along the long front edge*



▼ *Polyurethane foams as it cures*





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 biggest brand names

14 Day Money Back Guarantee
We want to make sure you are 100% satisfied

Fast Delivery
Most orders despatched same day for a quick and efficient delivery. Same day delivery available

How to order...
Call Now
01923 250295

Fax to
01923 818219

Mail to
Powertek
20 Market Street
Watford
Herts WD1 7AD

E-Mail to
Sales@Diytools.com

Web
http://Diytools.com

Showrooms at...
Powertek
20 Market Street
Watford
Herts WD1 7AD

C W Tyzacks
79-81 Kingsland Rd
Shoreditch
London E2 8AG
Tel: 0171 739 7126

Streets
11 East Street
Havant
Hants P09 1AB
Tel: 01705 492460

All items include VAT @17.5% Carriage £6
On Small Powertools
J.K. Mainland Only
Heavy Machinery to be advised
Most payment methods accepted.
Money back guarantee covers goods returned unused 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 particular products. E & O.E.

routers



NEW AEG OFE710 + 5pc TCT	£109
AEG OFSE 1000 1000W Router	£169
AEG 1/2" 2000W + Case + 12 TCT	£209
Bosch GOF900ACE	£160
Bosch GOF1300ACE	£210
Bosch GOF1300ACE + W002 Table	£289
Bosch GOF1700ACE + 12pc Cutter	£270
Bosch POF500A + 5 TCT Cutters	£79
Bosch POF600ACE + 5 TCT Cutters	£119
Bosch Dovetail Kit ZF60	£173
Dewalt DW613 800W + 5 TCT Cutters	£140
Dewalt DW621EK 1100W VS + case	£195
Dewalt DW625EK 1850W VS + case	£270
Dewalt DW621EK + Dovetail Jig	£264
Dewalt Dovetail Jig 300MM	£69
Hitachi M8V Variable Speed 1/4"	£172
Hitachi M12V + Case + 12 TCT	£230
Makita 3612C + 12pc TCT Set	£260
Trend DJ300 Dovetail JIG	£92
Trend T5EK Router Inc Case	£165
Trend T9EK 1/2" Router + Case	£299

CRAZY DEWALT OFFERS	
DW625EK + Router Table W004 inc 12 pc TCT Cutter set & Fine Height Adjuster	£445
Dewalt DW621 + W002 inc 12pc TCT Cutter set	£295

router tables

Bosch RT60 Inc NVR Switch	£145
W002 39 x 40cm Height 29cm Table	£79
W003 Floorstanding 50x68x78cm	£169
W004 Large 52x44cm Height 36cm	£139
Trend Inc NVR Switch	£149

bandsaws

DEWALT A high performance 230V 8" Bandsaw complete with a leg stand, mitre and rip fence Best Value for Money DW876	£495
Delta 28-185 260W bench bandsaw	£150
Electra Beckum BAS315 + Legs + 5 blds	£290
Elu EBS3401 6" 2 speed + Legs	£275
Elu EBS3501 6" V.S. + Legs + Fence	£315
Kity 613 + Legs Stand + 1 Blades	£519
NEW 4" Record Bandsaw RPB58	£95
NEW 6" Record Large Bandsaw	£229

biscuit jointers

AEG Biscuit Jointer + 1000 Biscuits	£175
NEW Bosch GFF 22A + 100 Biscuits	£189
Dewalt DW 682K + 1000 Biscuits	£215
Dewalt DW 685K + 1000 Biscuits	£310
Elu MBR100 Biscuit Jointer	£170
Makita 3901 + 100 Biscuits	£227
Stayer JS102 + 100 Biscuits	£139

flip over saws

Elu This unit is an excellent flip off saw and sawbench in one machine comes complete straight and mitre fence plus Extra TCT Blade. TGS173	£649
Dewalt DW742 1650W 240V Flip Saw	£640
Electra Beckum KGT500 £620 + legs	£669
Elu TGS173 240V Flip Bevel + Legs	£649
Elu TGS173L 110V Flip Over Bevel	£649
FREE Spare TCT Blade	

cordless drills



NEW This is the perfect cordless, well balanced, ergonomic, with torque control complete with 3 batteries and a 1 hour charger DW953K2	£125
Bosch GBH24VRE 24V SDS + Batt	£335
Bosch GSR 9.6V +2 Batt	£90
Bosch GSR12V + 2 Batt	£119
Bosch GSR12VE2	£159
Bosch GSR 14.4VE-2 + 2 Batt	£194
Bosch Twin Pack GSR/GBS12VE	£194
Dewalt DW965K 12V Angle Drill	£195
NEW Dewalt DW912K2 12V with 3 Batt	£219
Dewalt DW921K2 9.6V with 2 Batt	£95
Dewalt DW997K2 18V H.D. with 2 Batt	£285
Dewalt DW914K2 14.4V with 2 Batt	£240
Dewalt DW954K2 14.4V + Torch	£140
NEW Dewalt 24V SDS with 2 Batt	£386
Hitachi DV14DVA 14.4V H.D. Combi	£183
Makita 6096DWB 9.6V NIMH BATT	£110
Makita 6313DWB EX 12V New Type	£195
Makita 6333DWB EX 14.4V New Type	£223

jigsaws

DEWALT Heavy Duty Top Handle Jigsaw inc 3 high performance jigsaw blades and a heavy duty carry case DW321K	£145
NEW Astra 550W IND Jigsaw	£79
AEG BSPE100 Variable Speed	£129
Bosch PST700PAE Variable Speed	£79
NEW Bosch GST2000 VS	£118
Bosch GST100BCE	£118
Dewalt DW320 Heavy Duty Jigsaw	£125
Dewalt DW933K2 Cordless Jigsaw	£325

lathes

CL1-36" Record Lathe	£299
DML 24X	£169
Record CL 2-36"	£399

mitre saws

DEWALT A very accurate mitre saw now with electronic control to give a finer cut 7 venners and plastics features 1600W motor + .egs+ Free Spare Blade DW701	£514
NEW Bosch GFS350E Tenon Saw	£129
NEW Dewalt DW700 216mm Crosscut	£390
Dewalt DW705 305mm Mitre Saw	£425
*Dewalt DW707 216mm + Legs	£485
Dewalt DW708 305mm compound saw	£589
*Dewalt DW701 Crosscut + Legs	£514
*Dewalt DW711 Table Top Saw	£375
Electra KGS300 240V + Legs	£335
Electra B KS250	£179
Makita LS1013 Mitre Saw + Legs	£555
FREE Spare TCT Blade with goods marked *	

mortisers

Charmwood W790	£172
Multico PM12C C/W 1/4 3/8 1/2 Chisel	£295
Multico PM16C C/W 1/4 3/8 1/2 Chisel	£350
Multico PM20 + Mov Head + Workpiece	£575
Record WRM200 1" CAP Mortiser	£799
Record BM75 1" CAP Mortiser	£739
Record RPM75 + 1/4 1/2 Chisel	£159
QB35E Hitachi Vacuum	£195
PSE180E SCRAPER + 5 Blades	£55

circular saws



HITACHI Powerful 7" mid-range saw with a cutting capacity of 65mm and enough power to maintain a clean cut + Nail Blade C7U	£149
AEG HK75A Circular Saw	£135
Bosch GKS 68B + Guides	£210
Bosch GKS65 Circ Saw IND 7 1/2"	£147
DW935K 14V Cordless + 2 Batt	£257
NEW 18V Cordless Trimsaw + 2 Batt	£149
Dewalt DW62 1Extra Nail Biter Blade	£119
Dewalt DW365 1350W + Extra Blade	£185
Dewalt 383 9 1/4" Circular Saw	£210
Hitachi C9U IND 9 1/4" +Metal Case	£179
Makita 5703R Circ Saw IND 7 1/4"	£135
Makita 5903R Circ Saw IND 9 1/4"	£189
Skill 1866 7 1/4" Circ Saw	£95

planers

BOSCH This planer features a 750W motor inc dustbag, parallel/angle rebate depth stop, spare blades and a metal case. Plus a Planer Thicknesser GH031-82K + ADV82	£249
AEG H500 500W Planer	£77
AEG H750 750W Planer	£95
Dewalt DW677 1.5mm Cutt	£148
Dewalt DW678K	£183
NEW Hitachi P20DA cordless + 2 Batt	£265
Hitachi P20SA IND Planer	£147
Makita 1923BD Planer	£175

PRICE PLEDGE
If you find it cheaper - CALL US
We aim to beat all prices

planer thick.

DEWALT High Quality, robust, rigid cast aluminium design complete with HSS knives, fence and dust extraction mouth piece DW733s	£730
Dewalt DW733 1800W Thicknesser	£460
Electra Beckum HC260M 10 x 6	£630
Kity 1637 10"x8"	£810
Kity 432 6" x 4" 1100W	£395
KITY 439 8" x 8" 1100W	£570
Record RD26 10 x 6	£615
Record RD30 12"x8"	£799
Sheppach HMS260 + Base	£675

tormek range

1204 + SP650 + MH380 Cover Free	£159
2004 + SP650 + MH380 Cover Free	£279

diamond stones

25% OFF LIST PRICE	
W6F P 6" Fine/course	£40
W8F 8" Fine/course	£75

radial arm saws

SPECIAL PACKAGE Dewalt DW720 + LEG STAND DW621K + 12pc TCT + ROUTER MOUNTING BRACKET SPECIAL PRICE £985	
Dewalt DW720 with Leg Stand	£675
Dewalt DW721 with Leg Stand	£1195
Dewalt DW728 with Leg Stand	£1868
Eumenia RAS 8 1/4" blade EXACT	£390

sanders



70% OFF List Price BOSCH This Delta Sander inc a carry case, 15 Sanding Sheets + an extension plate and a finger and curved extension worth £36 NEW GDA 280E	£55
Bosch GSS280A IND 1/2S + 30 Sheets	£139
Bosch GSS230AE 1/3S Orbit + kit	£119
Bosch GSS16A IND 1/4 Palm	£59
Bosch GVS350AE + Sub Base	£122
Bosch GEX150AC Random Orbital	£155
Bosch GSS280AE 1/2S Orbit	£150
Dewalt DW634 1/2 Sheet Sander	£199
Dewalt DW636 1/2 Sheet Sander	£255
Dewalt DW411 H.D. 1/4" Palm Sander	£75
Dewalt DW423 H.D. Random Orbit	£89
Hitachi SV12D 1/2 S Sander	£132
Makita BO4553 IND 1/4 Palm	£55

belt sanders

BOSCH A high quality 1200W 4" belt sander with integrated dust extraction and quick action belt mounting includes 20 free sanding belts and sanding frame GBS 100A	£269
AEG 4" Belt Sander	£160
Bosch PBS75 3" DIY	£95
Bosch GBS100A 4" + 20 Belts	£205
Bosch GBS 75AE + Case + Frame	£191
Dewalt DW650 + Frame	£249
Dewalt DW 431 3" Belt Sander	£165
Makita 9401B 4" IND Belt Sander	£249
Makita 9402B 4" IND Belt Sander	£270

sawbenches

sheppach TKU inc. +Sliding table +Panel Cut. Att. +Support Leg +Wheels £595	
NEW Dewalt DW744	£655
KITY 419 8" Sawbench + EXT + Stand	£475
KITY 619 10" Sawbench + EXT Table	£995
Sheppach TS2000 package	POA
Scheppach TS2500 + S.L.	£1090
Scheppach TKU + Sliding Table	£428

rexon tools

REXON NEW High Quality, most popular 13" Scroll Saw designed for a more accurate cut SS 13A3	£67
RDM50B + Mortiser & Chisel Kit	£195
NEW SM16A Mortiser	£169
DP200A Bench Piller Drill	£50
DP250A Bench Piller Drill	£89
NEW WG180A Whetstone Grinder	£79
SS16A 16" Scroll Saw	£77
SS16SA Scroll Saw 2 Speed	£98
RD26A Radial Drill	£185
NEW RD34RA Radial Drill	£255
B130R 1" Belt Sander	£49
BTS10A 10" saw + Ext Table + legs	£239
NEW WL618V V.S. Lathe + 5 Chisels	£179
BS10KA Bandsaw inc Legs	£289
BS10SA Bandsaw	£245

delta mitre saws

Delta 36-040 8 1/4" Mitresaw	£99
Delta 36-250 Slide Saw	£495
Delta 36-525 Table Saw	£220
Showrooms open 8.30-5.30pm Monday-Saturday	

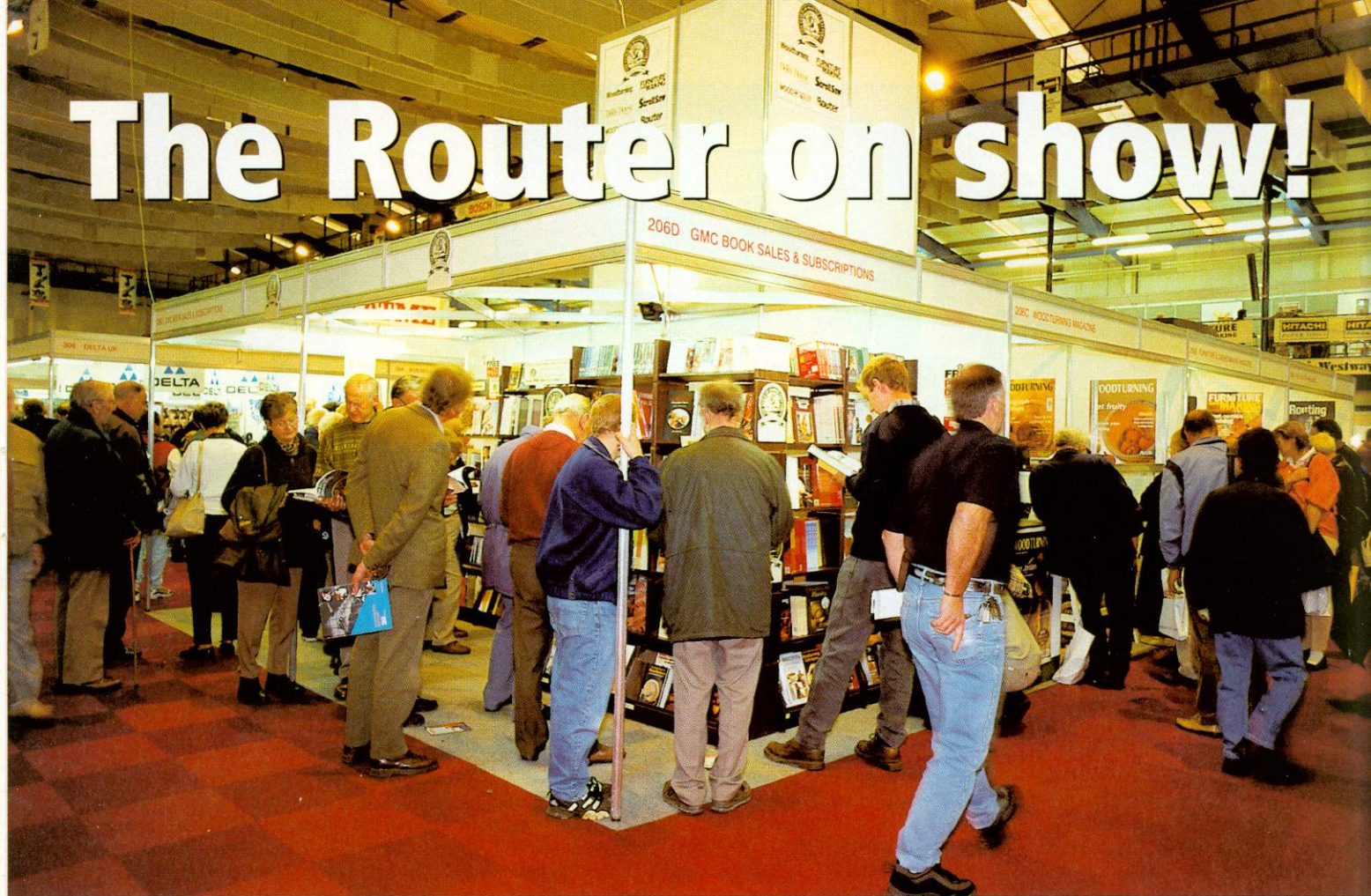
To Order By Telephone Call



Official orders accepted from major corporates, educational bodies & government departments.

01923 250295

The Router on show!



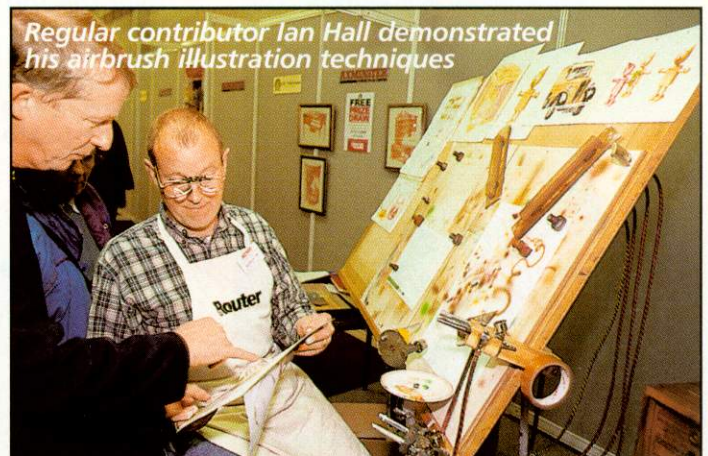
November saw your favourite magazine at the Axminster Tool & Machinery Exhibition in Shepton Mallett – and thousands of readers came to see us! Here's why...

FOR most of us, there can only be one reason for being in Shepton Mallett in November, and that is to visit the Axminster Tool & Machinery Exhibition. 1999 saw this hugely popular show's third year at the Royal Bath and West Showground, and everyone – visitors, competitors and exhibitors – agreed that it was the best yet.

Superstuff

Now, we all like to look at routers and other woodworking stuff, but even hardened stuff-men like Managing Editor Paul Richardson, and Editor of our sister magazine *Furniture & Cabinetmaking* Colin Eden-Eadon, came close to overload when faced with the hundreds of stands showing everything from router cutters to near-industrial woodworking machines.

Next door to *The Router*'s own stand were Trend, exhibiting their full range of routers, cutters, router tables and other routing gear, and just round the corner American visitors Jesada had a huge display of their crisp white cutters. Axminster Power Tools brought along their new 'Perform' cutters, and Freud's stand featured both their tooling and power tools.





▲ Sean Casey is presented with Best Use of the Router award in the Professional category by APTC MD Ian Styles...

...for this splendid walnut chest of drawers ►

In fact, just about every power tool, cutter and accessory available in the UK could be seen at the show – the last time we saw so many in one place was in ex-Editor Alan Goodsell's workshop!

Tradition

All aspects of woodworking were represented, though, including traditional and not-so-traditional hand tools (they're the ones without plugs, by the way). Even visitors with no intention of swapping their routers for chisels were fascinated by a demonstration of traditional Japanese joinery skills, for example, and *Furniture & Cabinetmaking* author David Charlesworth showed off his impressive sharpening techniques to an admiring throng.

Take a stand

Our own stand was manned by *The Router*'s photographer Anthony Bailey and contributor

Bill Cain, who spent four days talking routers with the thousands of readers who came along to see us. Most popular subjects? Simple jigs, simple projects using affordable materials such as pine, more detailed plans and, especially, build-your-own-router table projects – many visitors said that commercially available tables are too expensive, small and sometimes flimsy.

OK, you won't have to tell us twice – watch out for these subjects in future issues.

Next door was *Furniture & Cabinetmaking*'s stand, manned by Colin Eden-Eadon and (occasionally) Paul Richardson. Other GMC magazines *Woodturning*, *Woodcarving*, *The Scroll saw* and *The Dolls' House Magazine* also drew crowds of readers.

Competition

In many ways the big deal for us at Shepton Mallett is the annual furniture-making

competition, organised by *Furniture & Cabinetmaking* magazine.

This event, launched three years ago at the first Shepton Mallett show, has taken everybody by surprise with the speed at which it has grown – in 1998 it was described by some as one of the largest competitions of its type in the world, and this year's was even bigger!

The Router makes three awards of its own in the competition, to those entries which show the best use of a router in their construction. This year's winners were: Sean Casey in the Professional category, for his walnut chest of drawers on stand, featuring a cunning routed handle detail; Marcus Mindlesohn in the Student category, for his over-the-top tool case with routed depressions; and A. Grazier for his octagonal library table in cherry.

Each of these lucky winners received a Trend T9 router and a DJ300 dovetail jig. ●



◀ Marcus Mindlesohn's over-the-top tool case took the The Router award in the Student category

► A. Grazier won the Amateur Use of Router award for this library table



"Clean cut and a bit of a smoothie, not me ... my GOF 900 ACE!"

Ramon Weston
Cabinet maker and
woodworking
instructor
Chippenham



**Harder Working
Power Tools**

“ When you spend most of your day using power tools, you soon begin to appreciate the good ones. Take the Bosch GOF 900 ACE Router for example – it really works for me, saving time and effort.

The plunge lock lever is within easy reach of the handles which are mounted low down giving that all important optimum centre of gravity near the work piece.

Fine depth and parallel fence adjustment come as standard. The easy to use, handle mounted, on/off switch operates the powerful 'soft start' 900 watt motor with constant speed control, giving total control in a wide variety of cutter and material combinations.

I especially like two of the features which are unique to Bosch. The bayonet fit template bushes mean template guide bush change without the need for tools. Flexible rubber sleeves protect the smooth plunge action from the worst excesses of dust and dirt.

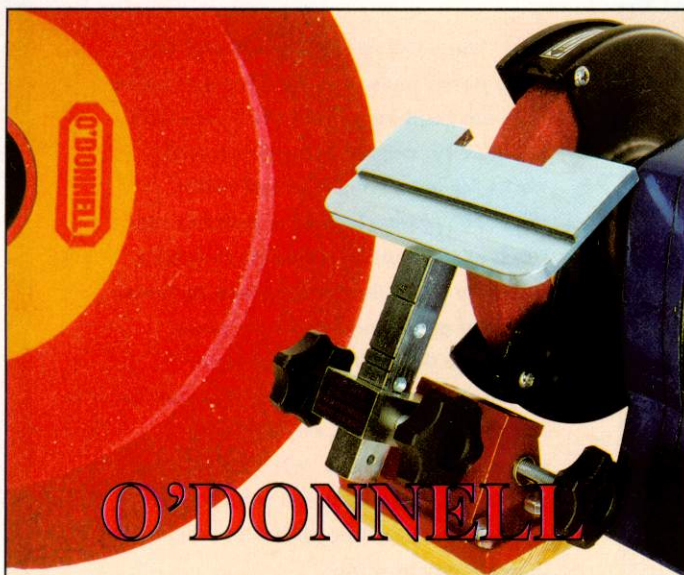
And there's more...3 stage turret stop, spindle lock, sturdy aluminium base plate, transparent safety shield, to name but a few.

The GOF 900 ACE also has an adaptor for connection to a vacuum cleaner. So when you next visit your Bosch dealer, why not ask about the GAS 12-50 RF dust extraction unit.

There's no doubt in my mind – Bosch routing systems are the clean cut choice for all woodworking professionals. ”



BOSCH



O'DONNELL

Ruby Grinding Wheels

Are the best high speed wheel for HSS & Carbon Steel Tools. Cool Fast Cutting for the ultimate Edge. Combine this with the O'Donnell Tool Sharpening System, the only one with calibrated pre-set angles for accuracy, repeatability and speed, then your tools could cut the wood with ease and precision. Don't settle for less.

The O'Donnell Sharpening system for 10" Wetstone grinders will transform your grinder to an accurate & easy to use tool sharpening machine.

Give your tools a chance

Ask for a leaflet, list of stockist and shows we will be attending.

C&M O'Donnell, Brough, Thurso, Scotland. KW14 8YE

Phone 01847 851605; fax 01847 851793

E mail- odonnelltools@cs.com

Web page- ourworld.compuserve.com/homepages/m_odonnell

FAITHFULL POWER

! We're on our way to Wembley !

See the full range demonstrated @
International Woodworking Show - 17th - 20th February 2000

FAITHFULL 16IN. FRET SAW

Twin Speed, 50mm cutting capacity at 90 deg



Only **£124.95** inc VAT



We are a Which?
Web Trader
www.which.net/webtrader

COOKSON'S

Swallow Street, Stockport, SK1 3LG
e-mail: info@cooksons.com

Freephone: 0800 458 5752

www.cooksons.com

£135.00 10" Tilt Arbor. 1500W Motor. Floorstand £14.00	£59.00 16" Throat. Cast Iron Table.	£99.00 16" Throat. Variable Speed.	£99.00 8" Throat. 1/2 hp.	£299.00 6" Cut. 10" Throat.	£579.00 12" Crosscut. 2hp Motor.	£459.00 1/2" Capacity. 6" Max. Timber. INCLUDES 3 FREE CHISELS £145.00 3/4" Capacity. Cast Iron Table.
--	---	--	---	---	--	---

The UK's top selling range of router tables!

A Charnwood router table will turn your hand held router into a versatile low cost spindle moulder enabling you to carry out a tremendous range of routing operations.

W001 Workbench Table Now available in two versions, W001 for flush mounting into a workbench or fitting onto a workmate and W002 which will sit on any workbench or table. Supplied with adjustable fence with wooden faces, clamps, finger pressure, guarding and dust extraction. Accepts any 1/4" router. Table Size 400mm x 390mm. W001 £59.50 W002 £79.50	W002 Bench Top Table £79.50	W004 Heavy Duty Bench Top Table With a 25mm thick table measuring 44 x 54cm, the W004 will comfortably take the largest and heaviest routers. Removable insert rings allow cutter apertures upto 90mm. Supplied with fence, clamps, guarding and extraction outlet. W004 £139.50	W003 Floorstanding Router Tables £179.50 With Steel floorstand and subframe the W003 will cope with the most demanding situations. The table has a comfortable working height of 87cm and table top size of 50 x 68cm Supplied with fence, clamps, guarding and extraction outlet. W003 £179.50 Shown with optional mitre guide.
W002/3 Mitre Guide £12.50 Fits any table	W002/5 NVR Switch £35.00 For safer router control		

charnwood

woodworking machinery at its best

ALL PRICES INCLUDE:
FREE DELIVERY
& VAT @ 17.5%

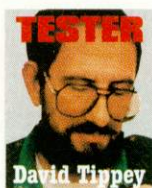
FREE CATALOGUE NOW AVAILABLE

Tel: 0116 251 1550 Fax 0116 253 2891

e-mail charn@webleicester.co.uk

charnwood 1 Rowan Street, Leicester, LE3 9GP

dust extractors 1000 cm/h. 750W Motor. W690 £135.00 2000 cm/h. 1500W Motor. W791 £299.00	belt sanders W407 £79.00	disc sanders W409 £129.00	lathes W812 £199.00 36" x 12" turning capacity. Rotating headstock, variable speed.	router cutters W251/6 £38.95 W251/5 £69.95
--	--	---	--	--



Jig master

David Tippey tests a master template device for making dovetail jigs

THERE is a good range of commercial dovetail routing jigs available, with prices starting around £60 and climbing sky-wards. Generally speaking, the prices rise as they become more versatile.

But even £60 is quite a lot of money (or cutters) if you only want to produce dovetails occasionally, so it is tempting to dismiss this attractive and strong joint in favour of something cruder and simpler. However, with a versatile jig at the right price, this need not be the case.

Making jigs

I love making jigs, but dovetail and finger-joint jigs are a bit of a problem, as you can't really make a homemade jig without an accurate master template, which means either buying or borrowing an existing jig first.

The American manufactured, Make IT Right Dovetail Template Master, is an answer to this jigmaking problem. It provides you with an accurate master template, and a clear set of instructions on how to create 1 to 2in, single or mixed-pitch dovetail



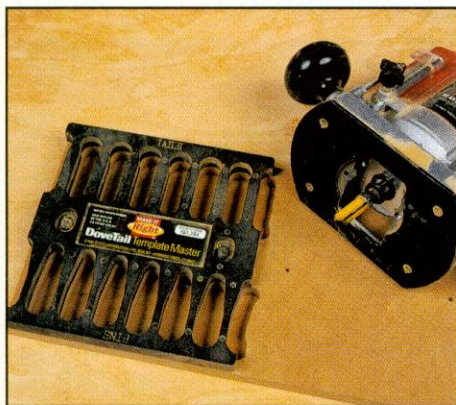
▲ The kit as supplied, including the Perform cutters

jigs, or finger-jointing jigs of any length.

This means that you can easily create custom jigs for specific jobs, and you don't have to worry about damaging the jig. Replacement combs for commercial jigs are expensive to buy, but with this jig you can just make replacement working templates yourself for a few pence each.

One side of the jig is used with a bearing-guided dovetail cutter to form the tails, the other side with a bearing-guided straight cutter to form the pins. The set comes with full instructions, including making half-blind dovetails, variable-spaced dovetails, box or finger joints and hinged joints.

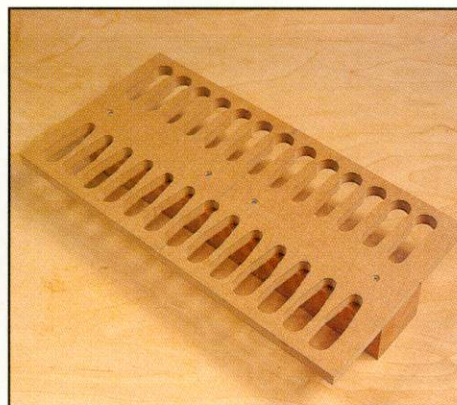
▼ One half of the jig copy completed



▼ The finished jig copy



▼ The jig copy screwed to a board





▲ Making a copy jig overhand, pre-drilled entry holes are needed here



▲ The pins machined...



▲ ...and cutting the tails

The master is accurately moulded in glass-filled engineering plastic. Providing that you allow the cutter to stop between router operations so you don't damage it, it should last a lifetime. If you register its purchase with the manufacturer, they will replace it at half the original cost, just in case.

"The jig was easily repaired with car body filler"

On test

It is very simple to use. The master is screwed to a pre-cut blank of suitable material, good quality multi-ply or MDF are probably best. A top mounted bearing-guided cutter is then used to create a replica working template from the jig blank. The set from Axminster comes with a suitable cutter which can be used to make the jigs and form the pins.

You'll need several of these working jigs. You need two for a 12in jig, and while you are at it you might as well make some spares. You could, as I did, use a slightly different method and 'index' the master jig, to create a single long template instead of the six finger sections.

The one drawback with this method is that if you damage it with a router cutter you have to scrap the whole jig rather than being able to replace just the damaged section. I managed to

damage the master slightly, when the collar retaining the shank-mounted bearing lost its grub screw.

I should have checked it first, but after replacing it, I made sure it was unlikely to happen again by locking the screw with a drop of paint. The jig was easily repaired with car body filler, as the damage was only slight.

In use

I also decided it was easier to rout the working jigs on the router table than with a handheld machine, and used a $\frac{1}{8}$ in cutter with a front-mounted bearing, as I prefer to work with the template on top of the work.

I used $\frac{1}{8}$ in MDF for the jig. If you wanted to make a really hard-wearing one, get hold of some Tufnol or similar sheet, which would also probably allow you to make the jig with the fingers open at the front, similar to commercial jigs of this style.

The working templates are then aligned and screwed to a suitably sized backboard and the jig is complete. The workpiece is aligned with the jig and clamped to the backboard, before being secured in a vice for routing. You could create a more complex jig with adjustable stops and built-in clamps, but it's not actually necessary.

My only complaint with jigs made with the system, is the 'closed end design', which is likely to lead to early damage, when you get too impatient to wait for the router to stop between cuts.

Replacement working templates are cheap enough to throw away when made of MDF, so it probably won't be too much of a problem for occasional use, but I think I shall get a piece of the much stronger Tufnol material and try making an open comb version, more like the commercial Keller dovetail jig. ●

The Dovetail Template Master costs £19.95 inc VAT, and is available from Axminster Power Tool Centre, Chard Street, Axminster, Devon, EX13 5DZ. Tel 01297 33656, e-mail: sales@perform-tools.co.uk

▼ The completed dovetail joint – a perfect fit first time



Anthony's addendum

I made a copy jig twice the width of the Dovetail Master, and found that when making the second half of the jig it was important not to machine very far away from the end, so that the holes in the middle weren't wider than they should be.

It is safer to overlap the first set of jig holes and avoid my basic error – I didn't have the manual for guidance! Another point is to clamp the jig on firmly. If you only use screws with the cutter working to full depth, in one pass it can kick the jig out of position, as I discovered.

Once the copy jig is mounted on a wide strip of wood of the correct width, every thing suddenly becomes very easy. I did both the pin and the tail cuts in quick succession, clamping a thin piece of board over the workpiece to prevent any breakout, and the joint was done. It fitted together perfectly first time!

HOPKINSONS

Power Centre

Makita

THE PROFESSIONALS CHOICE

Currently available from Hopkinsons
this range of Makita Woodworking Tools



LS1040

260mm Compound Mitre Saw
Light-weight but very robust
Easy adjustments pre-set
at 15° 22.5° 30° and 45°
Clamp and Extension Arms
Supplied as Standard
1,650 watts

SUGGESTED
SELLING PRICE
£189
plus VAT



LS1013

F.o.c Table

255mm (10") Slide Compound Saw
Maximum Cut Capacities
@ 90° 91mm x 305mm
@ 45° 91mm x 215mm
Bevel Cuts Both Left and Right

SUGGESTED
SELLING PRICE
£530
plus VAT



BO4553

1/4 Sheet Dustless Palm Sander
One Handed Operation
Double Insulated for Safety
160 watts

SUGGESTED
SELLING PRICE
£42
plus VAT



9403

100mm Super Duty Belt Sander
Belt Size 100mm x 610mm
500m/min Belt Speed
for Fast Stock Removal
1,200 watts

SUGGESTED
SELLING PRICE
£225
plus VAT



3612C

12mm Plunge Router
160mm Round Base
1,650 watts

SUGGESTED
SELLING PRICE
£249
plus VAT

*Call us now
for a special deal*

Visit our Superb Woodworking Demonstration Rooms
and try these Makita Tools for yourself

Alternatively give our sales team a call and order your tools mail order

Visit us at: 21 Station Street, Nottingham, NG2 3AL

Or call us on: Tel: 0115 9881855

TELEPHONE
01332 348225
FREE DELIVERY
MAINLAND UK
14A MIDLAND RD.,
DERBY DE1 2SN



FAX
01332 295943
FREE DELIVERY
MAINLAND UK
ALL PRICES
INCLUDE VAT

KITY

KITY 429 SPINDLE
MOULDER £449

KITY 613
BANDSAW THE BEST IN
THE BUSINESS C/W
FREE STAND & BLADES
£499

KITY 619 CIRCULAR SAW
C/W SIDE
EXTENSION TABLE £999

PLEASE PHONE FOR
ADVICE WHEN
CHOOSING ANY
KITY MACHINE OR
ACCESSORY.

WE HAVE 10 YEARS
EXPERIENCE
SELLING AND
SERVICING KITY
PRODUCTS.

DELTA

28-185 BANDSAW C/W 3
FREE BLADES £149

36-525 10" TABLE
SAW-STAND & SIDE TABLE
EXTENSIONS £229

36-520 10" TABLE SAW
ONLY £179

36-075 10" COMPOUND
MITRE SAW £179



22-560 12" PORTABLE
PLANER C/W FREE
SPARE BLADES £399



TELEPHONE 01332 348225

Take Control of your Power Tools

Fit your circular saw, router* or jigsaw*
to Triton's Series 2000 Workcentre for
exceptional accuracy, safety & control.

- ▶ Use the tools right-way up or upside down.
- ▶ Converts from a crosscut saw to a rip saw in around 40 seconds.
- ▶ Rip capacity 620mm. Crosscut to 700mm wide.
- ▶ Self-levelling legs provide remarkable stability on all surfaces and fold for easy storage.
- ▶ Perfect bevels & mitres.
- ▶ Shape, plane, mould & trench with great precision using your router.*



*Optional Router/Jigsaw Table req'd.

RING NOW!
For a FREE 48 min. demonstration video
and product catalogue. UK Free Call:
0800 856 7600

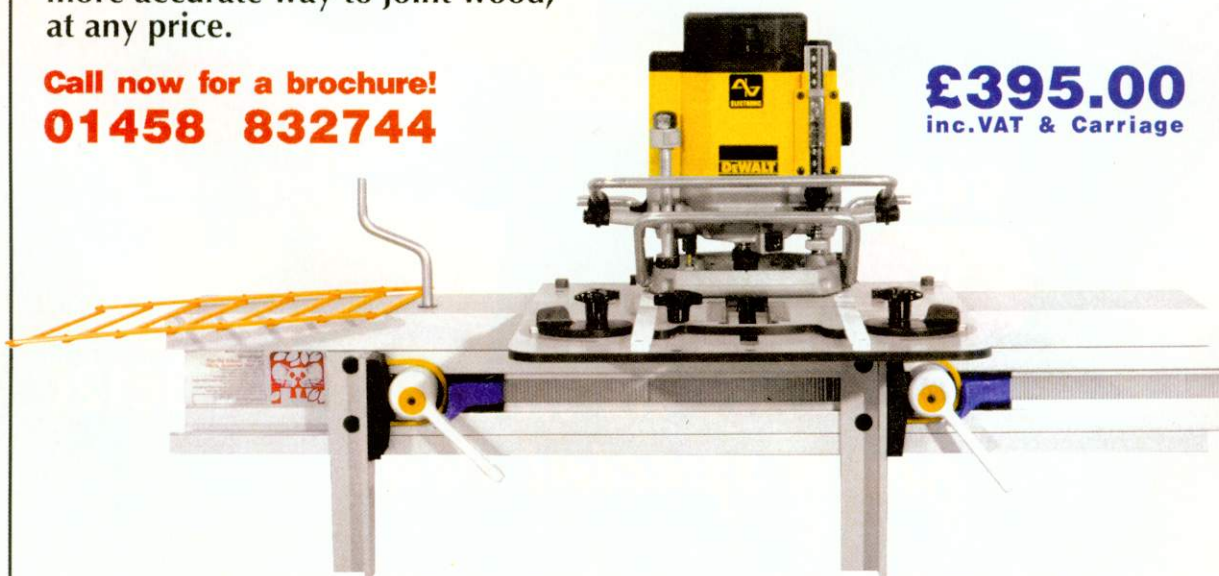
with the amazing
Series 2000 Workcentre from **triton**

WoodRat Users Know...

there's no faster, simpler,
more accurate way to joint wood,
at any price.

Call now for a brochure!
01458 832744

£395.00
inc. VAT & Carriage



sales@woodrat.com www.woodrat.com

WoodRat, The Old School, Godney, Wells, BA5 1RY tel: 01458 832744 fax: 01458 833038
Available from: Joe Greener - Darlington, Speedwell Tools - Preston, Homewood - Worthing, Fakenham Tool Hire - Fakenham

WoodRat®

Router Project

On the rack



Bill and Betty McKeggie tidy up with a simple magazine rack

I DESIGNED this magazine rack to be used in a small sitting room. It had to take up only a little floor space, and to be stable enough to withstand the weight of a load of glossy magazines.

I decided to make the rack in oak, a relatively heavy wood, which would match the rest of the furniture in the cottage. The plainness of the design is brightened up by a decorative pattern incised on the front using a Dremel tool.

"The top of the centre section was shaped to rest on the top edges of the sides"

Construction

I chose to use well-seasoned brown oak for the front, back, sides and middle sections, with 4mm plywood for the base. The oak had a strongly-coloured grain



▲ The completed rack with incised decoration



▲ *Cutting the sockets on the front piece...*



▲ *...and cutting the tails in the side piece*

pattern, and I spent some time working out how best to make use of the natural figuration. Also, the wood for the sides was chosen so that the grain ran horizontally, to ensure that the tails of the dovetails would have maximum strength.

I cut the dovetails by hand, not on a jig, as they are decorative as well as structurally necessary. I found that this made it easier to adjust the spacing to best effect, rather than by using a standard jig.

The front, middle and back sections were made up from narrower boards biscuit-jointed together, glued and cramped. The sections were cut roughly to size, then the curved top edges of the front and back, sides and middle were marked out, then cut, using a bandsaw.

The bottom edges of the front and back were cut by firstly using a 1 1/4 in flat drill bit in the corners, then finished on the bandsaw. This was easier than trying to cut a tighter inner curve with the bandsaw alone, even with a narrow blade.

The handhold at the top of the back piece was cut by first drilling out the ends of the hole, then finishing with the jigsaw.

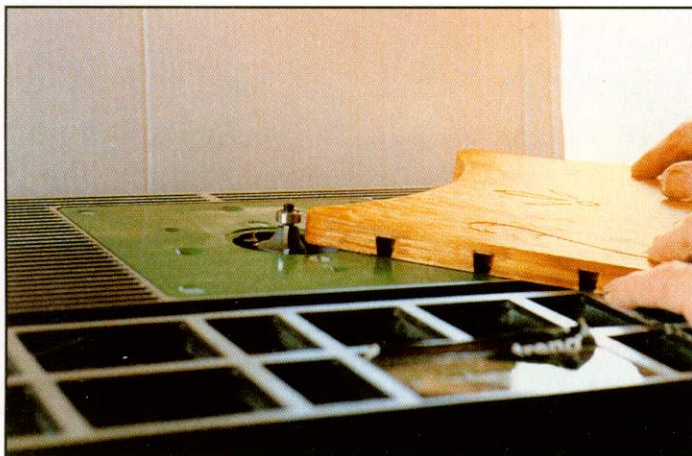


▲ *Groove cut in the side piece to take the divider*

Grooves to take the plywood base and the centre section were cut in the back,

front and side pieces, using straight cutters of suitable sizes. I used lapped dovetails to

▼ *Rounding the top edges of the front piece on the router table*



▼ *Template for the circular parts of the pattern*





▲ The template in place to guide the Dremel through the scroll pattern



▲ Cutting the incised circles



▲ Part of the decoration cut on the front piece

attach the sides to the front and back, the sockets being on the front and back pieces.

The top of the centre section was shaped to rest on the top edges of the sides, and line up with the outer surface of the sides. The top edges and the edges of the hand-hold were rounded with a rounding-over cutter on the router table.

Front section

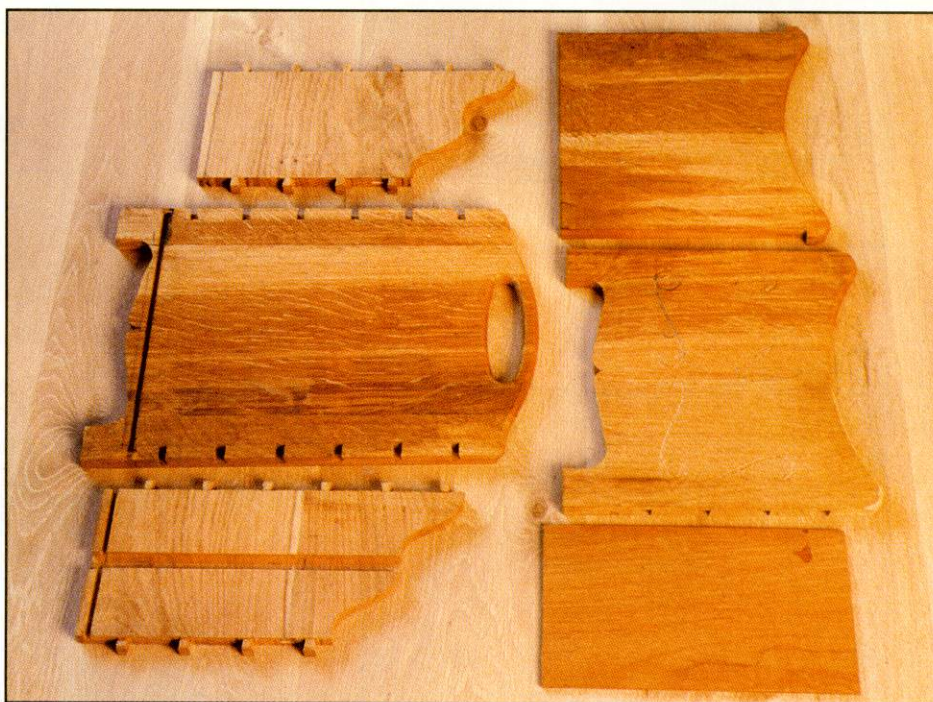
The design for the incised decoration on the front piece was drawn out on paper first, and when the final pattern was chosen, marked out on the front section using carbon paper. I made plywood templates to guide the Dremel tool, which was fitted with a Dremel No. 191 cutter, and the cutter-guide usually used for tile cutting.

The guide is adjustable to limit the depth of cut. Some trial cuts were done first on scrap wood, to find the best way to present the tool, and the right speed at which to attack the wood.

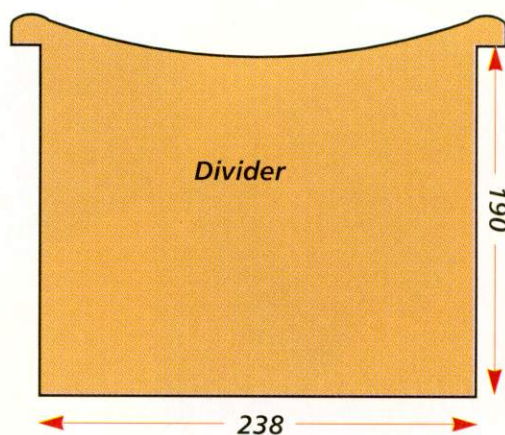
"This kind of finish will protect the outside from knocks"

Assembly

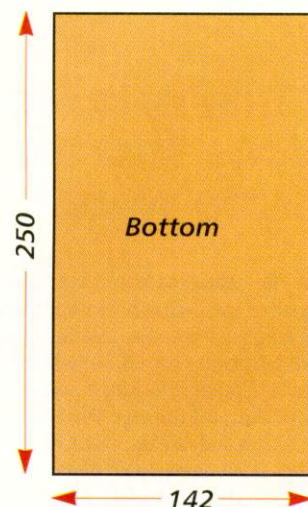
I rubbed down the front, back and sides with successive grades of abrasive paper, to a smooth finish, then assembled the rack with the base in place, glued and cramped, checking for squareness.



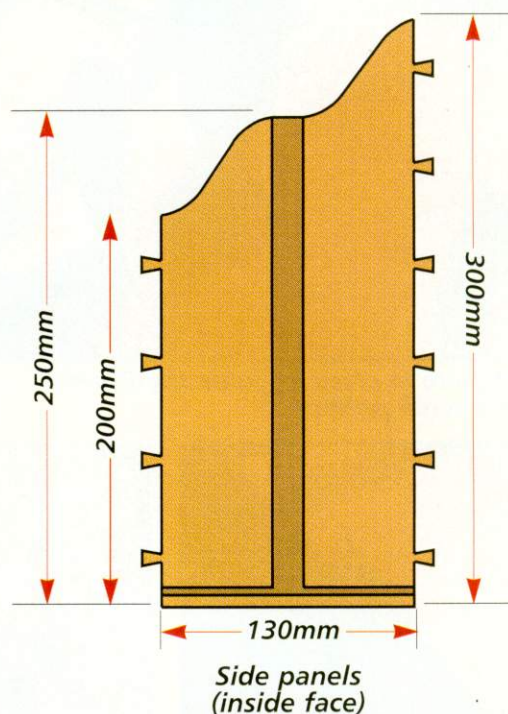
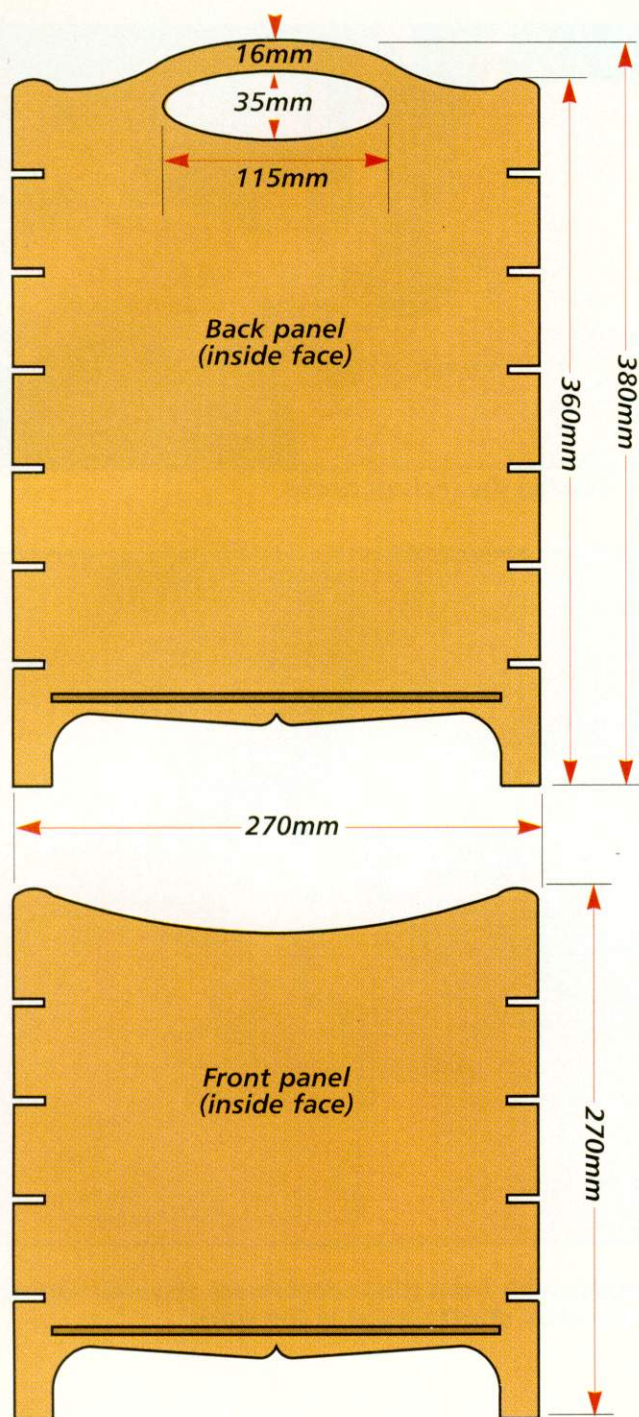
▲ The rack components; with front piece decorated, dovetail sockets in the front and back pieces, dovetails cut in the sides



▲ Front view



▲ Top view



"Trial cuts were done first on scrap wood"

◆ The centre partition was given a coat of satin-finish ployurethane varnish, as was the inside. The centre partition was smooth-finished, then slipped into place and held by screwing up through the base.

I finished-off the outside of the rack with three coats of satin-finish ployurethane varnish. This kind of finish will protect the outside from knocks and handling better than a wax finish, and it looks good too. ●



◀ The rack, showing lapped dovetails joining sides to front and back...

▲ ...and loaded up with glossies

KELTON HOLLOWERS:

SET 1: £37.95
 $\frac{1}{2}$ " $\varnothing$ shafts x 7" approx.
 usable length over toolrest.
 (KH3 15" or KH4 17"+7" handles - extra.)

SET 2: £57.93
 $\frac{3}{8}$ " $\varnothing$ shafts x 12" approx.
 usable length over toolrest.
 (Can be used with either KH3 15" or KH4 17"+7" handles - extra.)

SET 3: £68.90
 $\frac{1}{2}$ " $\varnothing$ shafts x 17" approx.
 usable length over toolrest.
 (KH4 17"+7" handle - extra.)

(Prices: per set of 3 tools)

A combination of the toughest tool steel alloys yet developed and unique cutting tip geometry make Kelton tools and "Centre Saving Systems" the most pleasurable and productive to use. – Enjoy truly worthwhile tool and raw material economies *plus added creative potential* –

RAPID SHAPING & FINE FINISHING

Fantastic cutting performance with tip steel formula that maintains a superior cutting edge many times longer than conventional HSS. Ideal for aggressive stock removal or whisper-light surface contact. Tips will not clog, loosen or lose hardness in grinding. Very easy to use and maintain. (Kelton Hollowers designed by Alby Hall, New Zealand)

STOP PRESS!
 The new Kel McNaughton "Ornamental Cutter Jig" is also demonstrated on your **FREE VIDEO**

"NEXT DAY" DELIVERY
 Orders received before 12 noon are sent by return to arrive with you the next day. Carriage is charged at cost. Just list the items required and ring for an immediate quote

ECONOMY & PEERLESS PERFORMANCE

One tool shaft with 5 quickly interchangeable, super-tough HSS tips gives you the pleasure of working with the profile and quality of gouge you want for the need of the moment – but at a fraction of the total cost of individual gouges! The flute of each tip is ground and highly polished to make it feasible for you to maintain the ultimate cutting edge. After a long working life, only the tip needs to be replaced – not the entire tool or toolshaft.

The $\frac{1}{2}$ " $\varnothing$ shaft can be used with either the KH3 (15") or KH4 (17"+7") handles and offers approx. 10" projection over the rest.

KELTON MULTI-TIP GOUGES:

TOOLSHAFT (Shank): £6.95
SET OF 5 TIPS: £68.15
INDIVIDUAL TIPS: £13.75

SHEAR CUTTING STABILITY

The very heavy shaft section of the Kelton KM-SS-L provides a reach over the rest of up to 17" without bounce. The finest internal and external finishing cuts become feasible. Fixed or variable shear scraping angles are easily utilized with the flat or radiused sections of the shaft. Profiled tips can be swivelled and set at any required angle for optimum effect. (Requires handle KH3 or KH4) (Shank also accepts Hook cutter KM-T16)

SHEAR SCRAPERS:

SS-L 17" shank: £20.57
SS-S 7" shank: £18.80
ST1 1" tip: £11.75
ST58 $\frac{5}{8}$ " tip: £11.75

YOUR CHOICE OF DIAMETERS & CURVATURES

Quick to set up, easy to use, and giving you a virtually infinite of range of possibilities for saving several valuable blanks from the centre of any larger piece. Kel McNaughton's "Centre Saver System" has been acclaimed, "Woodturning tool of the century" (The Woodturner magazine); "An excellent investment for any woodturner, professional or amateur ... a necessity." (American Woodturner magazine); "Superior to all other inventions for this purpose. Versatile and ingenious." (Ray Key). Effectively more than doubles the value of your timber.

The system comes in two sizes: CS-S (Standard) and CS-L (Large) for diameters up to about 18". Both sets include a handle and toolpost. A third alternative is the combined set (CS-C) which includes all the blades from each set and just one handle and one toolpost to avoid unnecessary duplication.

SEE IT IN OPERATION! Call or write today and we will send your **FREE INFORMATION PACK AND VIDEO** by return post.

K.M.'s CENTRE SAVER SYSTEMS

CS-S: £146.50
 Standard system with 3 curved blades, 1 straight blade, toolpost, and the KH3 tool handle.

CS-L: £169.50
 Large system with 2 curved blades, 1 straight blade, toolpost and the KH4 tool handle.

CS-C: £247.50
 Combination of above systems to include all blades (total 7), 1 toolpost and the KH4 handle.

KELTON TOOL HANDLES

One handle serves many tools. Non-slip grip encloses heavy steel core for excellent tool damping and the added benefit of adjustable tool projection.

KH2: £16.
 10" long with $\frac{1}{2}$ " & $\frac{3}{8}$ " openings.

KH3: £19.98
 15" long with $\frac{1}{2}$ " & $\frac{3}{8}$ " openings.

KH4: £30.43
 Two parts: 17" main handle with $\frac{5}{8}$ " & $\frac{1}{2}$ " openings, 7" extension.

SPECIAL MOUNTING SYSTEMS

BALANCER (LEFT): £246.75
 10" $\varnothing$ pre-mount for your faceplate or chuck with adjustable counterbalance weights housed in rear of body.

ECCENTRIC FACEPLATE (CENTRE): £343.75
 Incorporates Balancer as above but with additional, frontal mechanism for offsetting the faceplate (shown lower right).

ANGLE FACEPLATE (TOP RIGHT): £155.75
 Tilts up to 25° Fits directly to lathe or to Eccentric Faceplate described above. (All shown on **FREE VIDEO**.)

Photo: Courtesy Rod Bonner (Timber: Cherry)

One finished bowl and three "free" blanks saved from its strikingly figured centre. Rod Bonner says, "In the last two years I have used the McNaughton system to produce well over a thousand extra bowls this way. During all that time I have honed the tool tips just once – Truly incredible steel!"

KELTON HOOK TOOLS

KM-S20: £15.86
 $\varnothing \frac{3}{4}$ " x 9" shank for hook tips

KM-T16: £13.22
 16mm hook tip for above shank (or shear scraper shanks SS-L and SS-S)

KM-S16: £12.33
 $\varnothing \frac{5}{8}$ " x 7" shank for hook tips

KM-T12: £10.58
 12mm hook tip (for KM-S16 shank)

A NEW TURNING EXPERIENCE

Hook tools can quickly remove large amounts of wood but are sometimes difficult to control. Kel McNaughton's new registered designs overcome this drawback and have other advantages besides. Unlike capped ring tools, K.M. tools can be set or rolled to cut at any advanced or trailing angle for optimum finish. A "Chip thickness limiting" effect is produced by the special forming of the tip at either side of the cutting edge. These areas act in a similar way to the bevel of a conventional gouge and provide for positive direction of cut and for depth control. Superb on end and side grain. Will not clog.

K.M. CALIPERS

KM-C: £28.20
 For vessels up to 14" $\varnothing$ x 9" deep

KM-CM: £35.25
 For vessels up to 21" $\varnothing$ x 14" deep

ESSENTIAL KNOWLEDGE

Kel McNaughton's unique solution to the problem of accurately measuring both the wall and the base thickness of enclosed vessels.

Q. WHAT DOES THE FOLLOWING MEAN?

- **FREE** Entry
- **FREE** Parking
- Hundreds of Bargains including timber, machinery, hand and power tools, craft accessories etc
- Top Demonstrators including Turning, Carving, Pyrography, Furniture Restoration, Chain Saw Carving, Colouring, Marquetry, Routing plus much more.
- Numerous Trade Stands, run by leading manufacturers.
- A Great Day Out at a totally unique show

**A. THAT ITS YANDLES SPRING WOODWORKING SHOW
ON FRIDAY 7TH & SATURDAY 8TH APRIL
BETWEEN 10am - 5pm EACH DAY**

All at
Yandle & Sons Ltd

Hurst Works, Martock, Somerset TA12 6JU
Tel 01935 822207 Fax 01935 824484

Information Sheet Available from MARCH

'The natural home of a Woodworking Show - a traditional working sawmill!'

ROUTER SUPER DEALS

ONLY £189.95
FREUD 1/2" FT2000VCE 1,900W ROUTER INCLUDES CARRY CASE & FINE HEIGHT ADJUSTER
Buy both FT2000VCE & 1/2" 12pc TCT Set only £219.95

ONLY £49.95
12pc TRADESMAN TCT ROUTER CUTTER SET QUALITY SELECTION OF THE MOST COMMONLY USED PROFILES

ONLY £48.95
POWER DEVIL PDW5027 ROUTER VARI-SPEED 850W
Buy both PDW5027 & A 1/4" 12pc TCT Set only £78.95

ONLY £74.95
Nu-Tool NPT850 similar to PDW5027 PLUS 12PC TCT CUTTER SET only £74.95

1400 X 500 X 860 ONLY £109.95
CARPENTERS WORKBENCH SOLID BIRCHWOOD TWO VICES

OPTIONAL LEG STAND £19.95

HS1500 10" TABLE SAW 3" CUT & 45° TILT INC. ROUTER TABLE FACILITY ONLY £119.95

12" DOVETAIL JIG INC TCT CUTTER ONLY £49.95

19.2V DRILL/DRIVER POWER DEVIL PDD2197 ONLY £78.95

STOP PRESS TWO ADJUSTABLE 12" WIDE ROLLER STANDS ONLY £24.95 THE PAIR!!

WOOD LATHES

NEW LOW PRICE £79.95
ASK ABOUT OUR SUPER DEAL ACCESSORY PACK
1/2HP Motor - Variable Speed 500-2400RPM - 12" Bowl Capacity Over Bed - 4 Position Rotating Headstock - **DRAPER WTL100**

NEW LOW PRICE £119.95
3/4HP Motor - 5 Speeds 3 Models to choose from 12" Bowl Capacity Over Bed - 4 Position Rotating Headstock - **DRAPER WTL100**

NEW LOW PRICE £119.95
1/2HP Motor - 5 Speeds 37" Between centres 12" Bowl Capacity Over Bed - Good range of access, available - **DRAPER WTL100**

CARPENTERS VICE 8" - £19.95

FORSTNER BITS 16 Pc BOXED SET 1/4" - 2 1/8" ONLY £26.95

18V DRILL/DRIVER NPT180 ONLY £59.95

MS200 COMPOUND MITRE SAW 750W MOTOR 4"x12" - 9" 30° ONLY £48.95

MS250P COMPOUND MITRE SAW 1400 WATT 10" TCT BLADE Cap. 127 x 75mm @ 90° ONLY £124.95

F CLAMP "SIX PACK" 2 x 12" 2 x 24" 2 x 36" 6 ASSORTED STRONG STEEL CLAMPS BUY ALL SIX FOR ONLY £24.95

MORTICE MACHINE STRONG TWIN PILLAR DESIGN SUPPLIED WITH 1/2" CHISEL & BIT ONLY £114.95

T BAR SASH CLAMPS PRICED PER PAIR (2) CLAMPS 2x36" £17.95 2x48" £21.95 2x60" £25.95 2x72" £29.95

WORKSHOP EQUIPMENT

LUTZ 2001 12" PANEL SAW WITH SLIDING TABLE 3" DEPTH OF CUT £339.95

LUTZ HS315 12" SAWBENCH 3" DEPTH OF CUT SUPER VALUE £199.95

LUTZ BOSS BANDSAW 2,000WATT MOTOR 185mm CUT 300mm THROAT ONLY £439.95

MITRE TRIMMER FOR CLEAN AND ACCURATE MITRES ONLY £99.95

SCHLEPPACH HMS260 10"x6" PLANER/THICKNESSER AND CABINET STAND PRICED TOO LOW TO PRINT

MAFELL AD160 PLANER THICKNESSER PRICED TOO LOW TO PRINT

BENCH DRILLS 16 Spd DRAPER £169.95 (INC. MORTICE ATTACH.) 12 Spd NU-TOOL £129.95 MORTICE ATTACHMENT AVAILABLE ONLY £18.95 5 Spd NU-TOOL £45.95

MAIL ORDER SPECIALIST
ORDERS BY POST TO: SALES OFFICE - MACHINERY SUPPLY CENTRE HUXLEY STREET ALTRINCHAM CHESHIRE WA14 5EL

PLEASE CHECK STOCK BEFORE TRAVELLING

MAIL ORDER HOTLINE 0161 926 8333
www.msctool.co.uk

ONLINE SHOP OPENING SOON FOR ALL THE LATEST DEALS

MasterCard VISA SWITCH

PRICES INCLUDE VAT *CARRIAGE PAID ORDERS OVER £55 OR ADD £4.50 * (UK MAINLAND)

Anthony Bailey has found another lucky woodworker to take centre stage – this month it's Bob Wearing



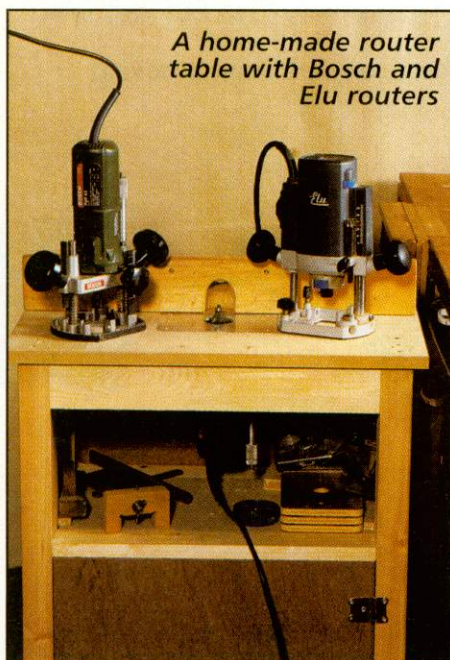
Anthony Bailey

BOB WEARING is one of *The Router's* staunchest contributors, with his fascinating series covering all kinds of simple jigs which extend the range and precision of routers. It seemed only right that we should ask Bob to enter the spotlight of *My Router Workshop* – to find out makes him tick!

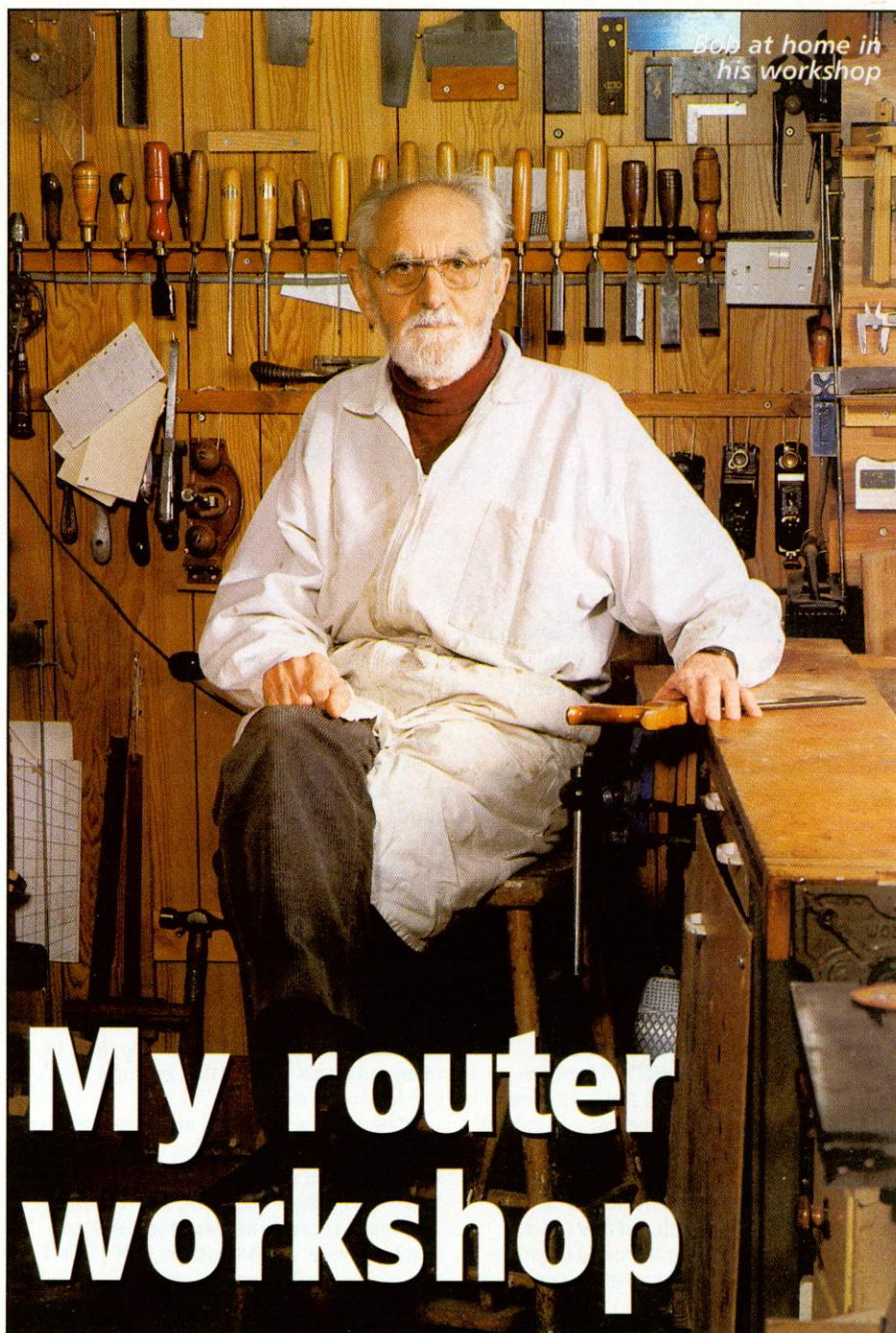
College days

Bob went to school just before World War II, which he then went through as a soldier in the old Indian Army of the British Raj. "Like so many who found themselves demobbed after the war, I was faced with the difficulty of finding myself a career. I wasn't entitled to a grant as my education hadn't been interrupted by the War, so I spoke to my old headmaster, who after studying my school records (in which I had shone at woodworking), his brief and succinct answer was – go to Loughborough College, nowhere else – they'll make a craftsman of you".

"That was one of life's turning points. I made a test piece in the garden shed with what tools I happened to have, and took it with me for the interview. In spite of enormous competition, I was in! Joining



A home-made router table with Bosch and Elu routers



Bob at home in his workshop

My router workshop

scores of ex-servicemen, ranging from a brigadier to modest aircraftsmen".

It was the right place, at the right time and with the right people. There was Edward Barnsley, the century's outstanding designer, Cecil Cough the master craftsman, and Ockenden, the organiser who made it all run so easily.

Master classes

After an extra diploma year, Bob was invited to set up workshops at Wrekin College in Shropshire, a middle-grade public school, then fully boarding. The hours were long, a 56 hour week plus what he took home, but there were compensations.

"There was no local authority breathing down my neck and telling me what I couldn't do. There was generous funding, with occasional extras for projects if I could make a good case. Above all there

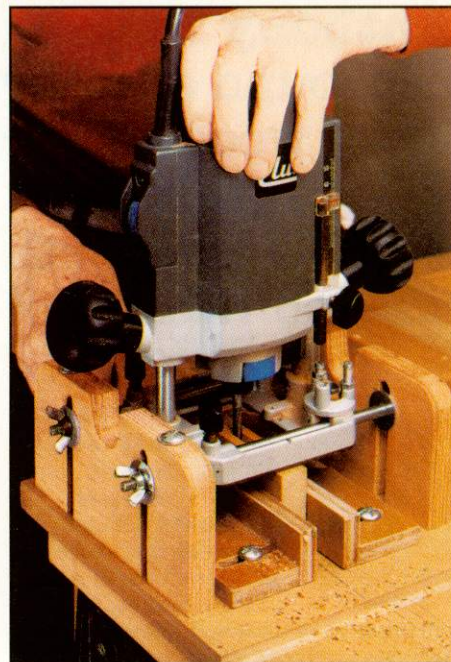
were very supportive parents prepared to foot the bill for quality timber!"

As well as teaching O and A levels, the workshops were open whenever there was leisure time in the afternoons. This meant that really keen pupils could sometimes clock up 10 hours a week. "Living on the spot meant that I had the use of a large well-equipped workshop throughout the holidays. So much space has tended to make me very untidy, which I struggle to overcome in my own workshop".

On leaving Wrekin, Bob was invited to the Fine Furniture Course run by John Price, another Loughborough man, at the School of Art in Shrewsbury. This was fascinating though demanding work which continued until John's retirement, when teaching ended. For some years previously Bob had run the Woodturning course in Leeds and York at the College of Craft



▲ Overhead routing with the small Bosch router in an old Wolf drill stand. Note the adjustable fence with chip extraction



▲ A miniature combination machine in set up for morticing

Education's Summer School. This was a two week residential course so quite a lot could be achieved.

"So much space has tended to make me very untidy"

Workshop in Wem

"Before I retired I gave up my college house and bought two small 1790 town houses in the small market town of Wem". An immense amount of work was involved in joining these together and making them safe, efficient and comfortable, while living in them at the same time. Across a narrow yard were two brick built outside toilets and wash-houses. These knocked together to make a long narrow workshop, very

comfortable for a one-man workshop.

Woodwork has two thirds of the space and metalwork, including its lathe, one third. An assembly area struggles hard to exist, without much success. Water is laid on and heating is by balanced flue gas. Calor gas bottles for forging and brazing live outside, only coming in when needed. The building itself is a brick lean-to, quite high at the back, giving good timber storage space. A ring main gives plenty of power points and the workshop has its own isolator switch. Bob changed the door to open outwards, giving that bit more working space – a useful tip.

"The roof is insulated and the windows double-glazed. This makes it very snug and limits the noise too. The shop is too narrow to take a man-size dust extractor and me. I recently replaced a burnt-out machine with the Axminster WV100. I find this excellent value and very effective.

I also have a Microclean 400 air filter which does keep the air clean, and runs from a time switch".

The house provides a study and a studio/darkroom and there are two good ironmonger/tool shops just moments away.

"I have always done more teaching of woodwork than making. Most of my domestic furniture has come from my workshop. The proportions of the shop preclude large machinery and this is one reason why I have never considered a combination machine". The machines are individual and small, though all are quite adequate for cabinet work.

Bob has an 8in sawbench – "I wish it was a 10in" – a very useful 12in disc sander, with dust extraction which he constructed, a Eumenia radial arm saw, "a grand little machine" which is kept solely for crosscutting and dimension sawing.

"A small Record bandsaw came to me

▼ Examples of Bob's ingenuity, including sub-bases for angled routing

▼ Sub-bases and fences for repetition grooving





◀ **Vanguard Routing Rods and a V-groove push-stick help keep things safe**

Routers

An original blue Bosch POF router is mounted in a wheel-out cabinet. It hangs from an aluminium plate let in flush with an MDF top, in spite of its age it still delivers. Another Bosch POF is occasionally mounted as an overhead router in an old heavy Wolf drill stand. It is sometimes useful to see the work actually going on.

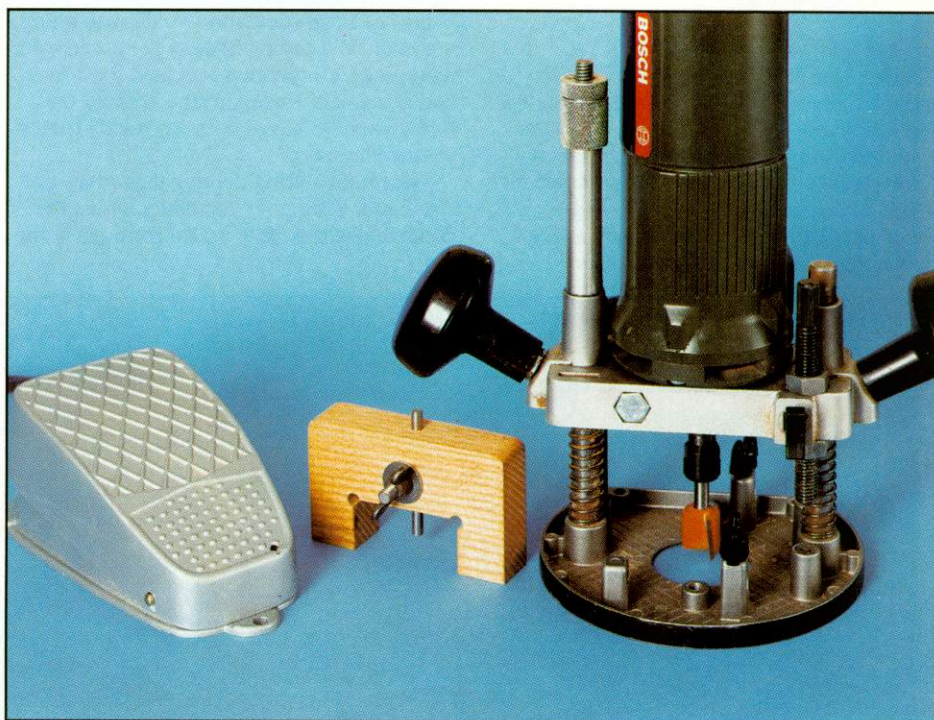
There is also an Elu 96E and innumerable jigs. Bob, like most of our other victims in the spotlight, doesn't have lots of routers, which should give plenty of comfort to

▼ **The foot switch, depth gauge and depth adjuster – the locking nut is essential**

unexpectedly. I find this quite handy; it does all the shaped work which I need. The Record lathe is newish and mounted on my own iron stand, bolted to both floor and wall, so it is steady as a rock".

The Elu 8in planer/thicknesser has served Bob well, without a hitch since the day he bought it. Its slot-morticing attachment has hardly ever been used, the Multico morticer being far better for cabinetmaking and no trouble at all. "An old pre-war hand-cranked drilling machine is fitted permanently for countersinking" says Bob. "This is a very useful idea, so if you see one at a car boot sale or the like, snap it up".

"I have always done more teaching of woodwork than making"



many readers who might feel under-equipped in this area. What is self evident is that Bob manages to do a lot with the few routers he has, and to make this point we move swiftly on to Bob Wearing's jigs.

Jigs

Anyone reading Bob's articles in *The Router* knows just how clever and prolific his inventive mind really is. From the 'Bob Wearing levelling foot' to the more sophisticated 'Mini Combination Machine', he has thought of just about every device you can make and fit to the average small router.

"The combination machine does morticing, but it will also thickness, rebate and do grooving and moulding. It just needs a little care and ingenuity and you come up with the miniature version of a full size machine!"

◀ **Ear defenders, a 1/4in locating point, and two 1/4in milling cutters, good for cutting deep mortices**



▲ A variety of cutters, including straight, dovetail and bearing-guided cutters. The alloy guidebushes are an older Bosch pattern

Another Bob favourite is the overhead router. Simple refinements to the home-made bed allow easy fence adjustment and the use of ash spring fingers, again fully adjustable, make routing easy and safe with chatter-free cutting.

Gadgets

"I don't own lots of ready-made gadgets, though there are a number of things, including safety aids, which your readers might find interesting. For example, the Emtec 'Noisebreakers'. These superb ear defenders are inconspicuous and let me clearly hear the phone, while giving protection against damaging noises – shooters use them".

"The Vanguard Routing Rods which I have mentioned before in the magazine have a hundred uses because, unlike conventional rods, they take washers and butterfly nuts at each end, allowing the fixing-on of levelling feet, ski's and fences. The V-groove push stick allows safe machining, with the 'V' pushing against the corner of a workpiece, eliminating the need for a second pushstick. I wouldn't be without the foot switch, it leaves both my hands free to control the work".

The router setting depth gauge gives precise cutter settings in the table, whilst the depth adjuster is very useful for table work too.

Cutters

"I have all the usual standard cutters that anyone would own" says Bob. "However as I do quite bit of morticing I find $\frac{1}{4}$ in engineers' milling cutters very effective, because they permit deeper cutting than standard router cutters. The shank enters the hole once the the fluted section has done its work. I don't have any great need for fancy cutters, apart from anything else I don't have a large router to use them in!"

I asked Bob how long he had been writing for woodworking magazines. "If my memory serves me right it was in the 1950's for *The Woodworker*, when it was under the complete and all-embracing control of the great Charles Hayward. He ran it virtually singled-handed, quite a feat no-one has achieved since, and there are all his books on woodworking too, a truly legendary figure who has inspired many people to take up woodworking".

Finally, I wanted to know if there was anything Bob dislikes about woodworking. "Perhaps the only thing is the many editors pressuring me to deliver articles to them all the time!" We would like to say – sorry Bob, you really are much too useful, readers and pupils everywhere have learnt a tremendous amount from you! ●



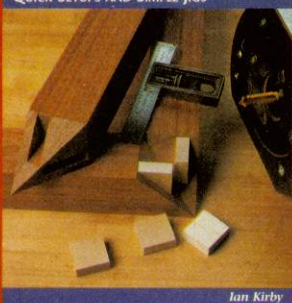
Bob's workshop, as tidy as it's ever been!

NEW

JUST PUBLISHED

the **Accurate ROUTER**

QUICK SETUPS AND SIMPLE JIGS



Ian Kirby

The **Accurate ROUTER**

by Ian Kirby Dec 1998

Approx 400 illustration
152pp pbk

**ONLY
£12.50
incl. p&p**

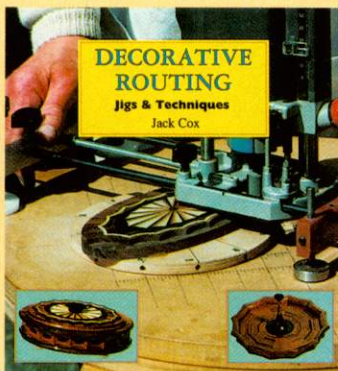
Available from stock

Here is a comprehensive guide to the router, today's most popular woodworking machine. Master craftsman Ian Kirby's practical, shop-tested approach does away with complicated, expensive and time-consuming gadgets. Instead, Kirby shows you how to guide the router with simple blocks and clamps. His down-to-earth approach equips you to get the job done with stunning accuracy and minimum fuss, every time. You will learn:

- How to build a superb bench-top router table.
- How to choose the right router for the work you do.
- How to build simple, inexpensive and accurate jigs.
- How to choose one of the seven basic guide methods for each routing task.
- How to shape mouldings for furniture and interior joinery.
- How to rout excellent joints, including rebates, housings, mitres, mortise and tenon, loose tenon, bridle, dado, and dovetails.

Includes a complete and invaluable catalogue of setups that shows you the best way to approach every router operation.

* * *



**DECORATIVE
ROUTING**
Jigs & Techniques
Jack Cox

DECORATIVE ROUTING

Jigs and Techniques
by Jack Cox

320 illustrations
192pp pbk

**£19.45
incl. p&p**

Available from stock

Jack Cox explains in clear terms how to produce beautiful decorative work to inlay mirror frames, jewellery boxes, clock faces and other work; how to make lovely oval and round boxes, platters, trays, and delightful scallop shapes for those special gift projects. A practical and innovative book for all router enthusiasts.

Orders to:

STOBART DAVIES LTD

**PRIORY HOUSE, 2 PRIORY STREET,
HERTFORD SG14 1RN**

Tel: 01992 501518 Fax: 01992 501519

ALL MAJOR CREDIT CARDS ACCEPTED

Scottish National WOODWORKING SHOW 2000

**Scotland's only dedicated
Woodworking Show for the amateur
and professional Woodworker**

- **The Scottish Exhibition Centre**
- **Glasgow**

OPEN 17th - 18th March 2000 10am - 5pm

19th March 2000 10am - 4pm

**Well Served by the Road, Rail
and Bus Network**

**MANY NEW
EXHIBITORS &
PRODUCTS**



**FREE : SHOW GUIDE
: ADMISSION**

for accompanied
children under 12

**Displays, Lectures & Workshops by the Country's
Leading Craftsmen**

**Demonstrations by Craft Associations & Glasgow College
Tools, Machines, Woods and Finishes to satisfy the
most discerning Woodworker**

ADMISSION PRICES AT DOOR

Adult £6.50
Concessions £5.50
Accompanied Children under 12 FREE

Fast track admission by Pre-Booking your tickets and save ££££££'s

Name: _____

Address: _____

Post Code: _____

No of tickets ~~£6.50~~ @ £5.00

No of tickets ~~£5.50~~ @ £4.00

Cheque/P.O. to SK Promotions Ltd. for £

Please Enclose S.A.E.

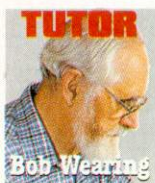
Where did you see the show advertised? _____

SK PROMOTIONS Ltd.

P.O. Box 127 Weston-Super-Mare Somerset BS22 9BE

Tel: 01934 420365

Routing **aids**



Get into the groove



A fixed form jig for routing multiple housings

Bob Wearing finds there are many ways to rout multiple grooves

THE applications for multiple grooving are both numerous and obvious: housings for shelves, both fixed and adjustable, housings for sliding trays and drawers, glass display shelves, and partitions in storage and filing systems are just a few.

Make sure you read the whole of this article before constructing any of these models, as useful tips are spread throughout to avoid repetition.

Fixed form jig

I shall begin with the simplest, fixed form.

Make a baseplate from $\frac{3}{4}$ in. plywood or MDF, bore or rout a central hole and fix to the router base. Most routers have suitable holes which can be used, these are usually threaded M5 or M6. If you lack these, drill two holes and secure with countersunk screws and nuts.

Cramp a fence onto a piece of scrap material, and using the selected cutter, rout a shallow specimen groove. Carefully prepare a thin strip of hardwood to be a sweetly sliding fit in the groove.

Screw this, well countersunk, to the base with the required spacing between

the cutting edge of the router cutter and the strip. To begin it may be necessary to work the first groove from a cramped on fence, without using the jig.

From this point on it is only necessary to run the guide strip in the existing groove. Plunge to the pre-set depth stop and rout the groove or housing. Continue in this leapfrog manner.

Through grooves are easy. Stopped grooves can be achieved either by making an index mark on the edge of the base, or working right through and later gluing on an edging strip.



▲ Details of the foot

◀ Underside of the fixed form jig

▼ Routing a housing with the foot jig

"Check that the combined router and foot do not rock"

Guide strip

For this model, prepare a thickish foot, stand it and the router on a flat surface and mark the positions of the holes. This can be done easily by clamping two pencils or ballpoint pens in the routers as markers.

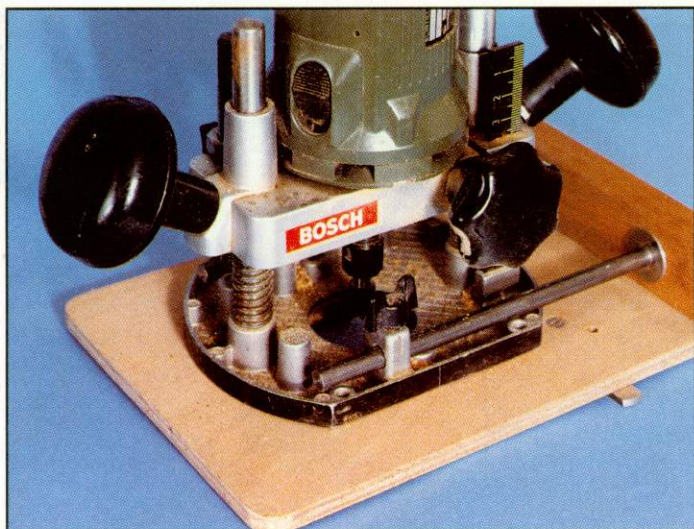
Drill $\frac{1}{16}$ in holes, fit a pair of Vanguard router rods and assemble the router and fence on a flat surface. Check that all is well and that the combined router and foot do not rock.

Next, produce a hardwood guide strip to suit the pre-cut first groove. Screw it on using countersunk screws and you're done. In some cases a bright metal strip can be found which exactly matches the cutter. ▶

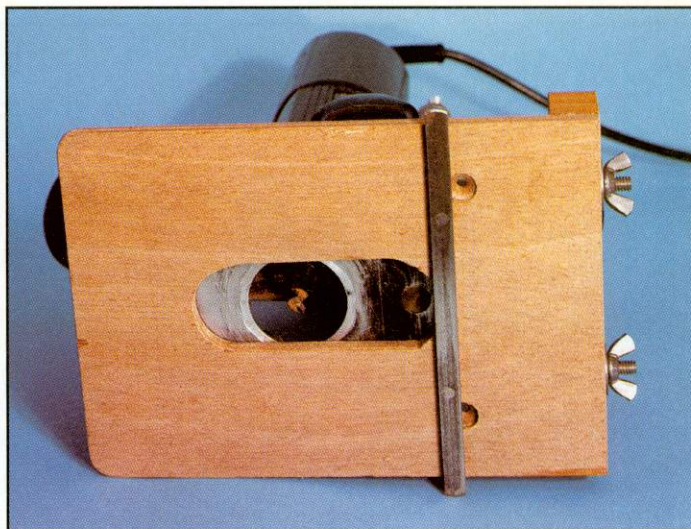
▶ Working a housing with the simple adjustable jig

▼ Foot to fit the housings with router rods





▲ Top view of the more complex adjustable jig...



▲ ...and the under view

"There is another way to make an adjustable version"

Adjustable jigs

The final two models are adjustable versions, and I shall begin with the simplest. First make a block similar to the levelling foot described in *TR19*. Gauge and carefully plane it down to thickness until it fits and slides easily in a pre-worked housing.

Either rout two slots to suit the router rods' spacing, or saw them and then glue on a substantial lipping. The common centre distance of 85mm suits the Bosch POF and Elu 96 routers. Make the slots $\frac{3}{16}$ in to cover the slight inaccuracy in the slots.

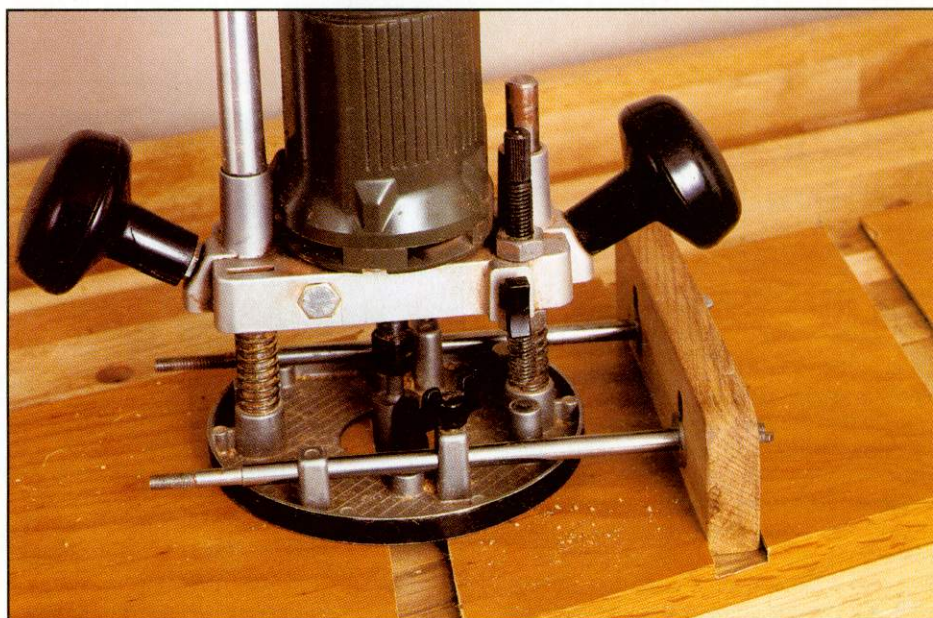
Fit up the router with a pair of router rods and stand the router, with the cutter withdrawn, on the workpiece. Position the foot in the first housing, which will already have been worked, and assemble with the router. Set the router's depth stop then plunge and rout as described earlier.

There is another way to make an adjustable version. Begin by gluing a stout block to a plywood base. Mark the centres of the holes for the rods using the two pencils trick. Drill these oversize to about $\frac{3}{16}$ in.

Assemble the router, rods and base, making sure that the router sits well on the base. Draw round the hole in the router's base, draw two parallels to this and cut out a sizable slot. Screw on a slide bar of suitable width.

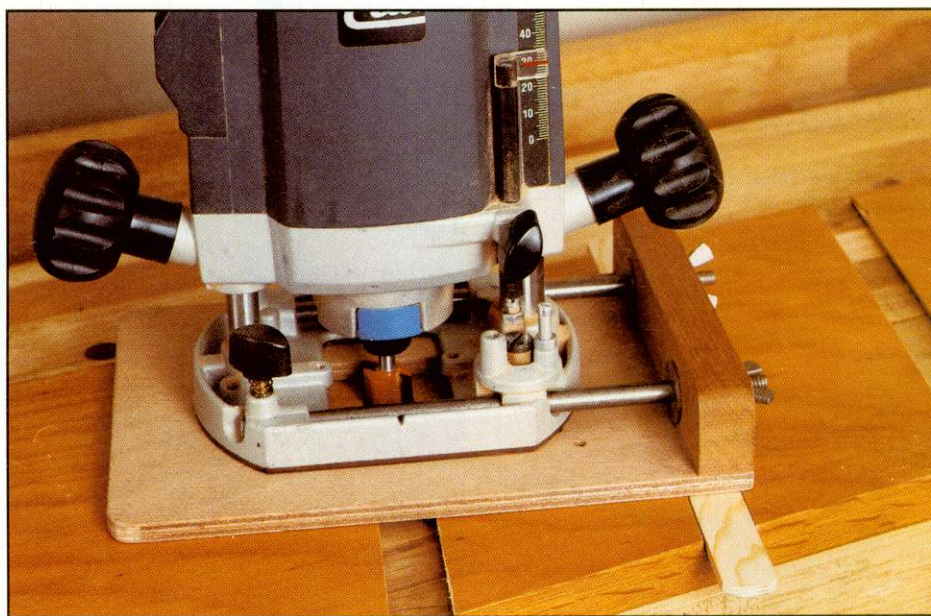
Cut the first housing conventionally, adjust the router along the rods, set the depth slot and rout the housings.

Angled housing present no problems. Using the simple adjustable jig, begin by cutting the first housing using the common cramped-on batten as a fence, then proceed as before. When the angle is considerable, it helps to use a longer guide, as in this instance I find the more complex adjustable jig the most suitable and robust jig for the job.. ●



▲ Working an angled housing with the simple adjustable jig

▼ Angled housings with the complex adjustable jig. Note the longer guide for the larger angle



Adhesives • Abrasives • Wood Finishes • Sealants



57 Ditton Walk, Cambridge CB5 8QD
Tel: 01223 412373

*Suppliers of adhesive
and abrasive products to
discerning woodworkers!*

MOULDEX 2405 RESPIRATOR

Protect your health! This comfortable respirator with its unique 'ventax valve' gives the wearer a high level of protection. Advisable to be worn when using dangerous hardwoods or MDF.



ADKWIK PRICE	
Pk 5	£9.70
Pk 10	£17.64
Pk 20	£33.58

A7510 MCPU Adhesive

- Waterproof
- Over-paintable
- Foams slightly to fill joints
- Powerful bond
- Ideal for Teak etc.

ADKWIK PRICE

1.1 ltr	£8.99
550ml	£6.10



Say goodbye to all those old squeeze bottles, these Glue Boys will keep your PVA ready to hand.

They're just one of many special products available from ADKWIK!



ADKWIK PRICE	
1.5 ltr	£16.00
0.9 ltr	£14.30
0.45ltr	£9.45 ea

Prices exclude VAT and P&P. For details of a full range of adhesives, abrasives and other products – call our sales order line on:

01223 412373



John Boddy's Fine Wood & Tool Store Ltd
Woodworking 2000



**Self Service Store
& Timber Store**



**Free Weekend
Woodworking
Demonstrations**



**Mail Order
Catalogue £3**

£3 Voucher
refundable with 1st order

Courses

Woodturning
Woodcarving
Finishing
Routing
Veneering
Marquetry
Caning

Opening Times

Mon - Fri 8am - 5pm Saturday 8am - 4pm
Sun & Bank Holidays 10am - 4pm

Riverside Sawmills Boroughbridge N.Yorks YO51 9LJ Tel: 01423 322370
Fax: 01423 323810 or 324334 E-mail: info@john-boddys-fwts.co.uk

NEW BOOK FROM GMC

Router Magic By Bill Hylton

In this classic woodwork book Bill Hylton presents jigs, fixtures and tricks that will unleash the full potential of your router.

Learn how to craft flawless cope-and-stick joints on your router table, spin out custom dowels for special projects, from any species of wood in any length or diameter, and create spectacular fluted spindles, amazing spiral beaded columns, and astonishing finials.

The explicit step-by-step instructions show 50 new jigs and fixtures and how to use them in dozens of innovative new ways to save you time, and money and effort!

USUAL PRICE

£14.95

READER OFFER

£12.50

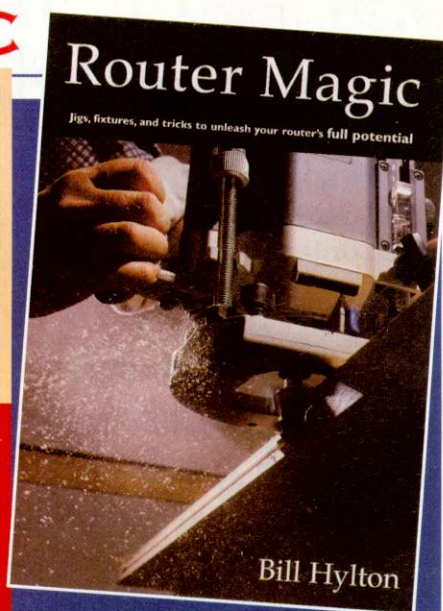
plus £1.00 p&p

ISBN

1 86108 127 8

328 pages

Over 345 photographs
and 8 drawings



Please send me

**Please send me Router Magic at the special price of £12.50
+ £1.00 p&p (overseas £2.00 USA \$3.95)**

Mr/Mrs/Ms

Address

Postcode

Tel No

CREDIT CARD HOTLINE

01273 488005 • FAX 01273 478606

I enclose a cheque to the total value of
made payable to GMC PUBLICATIONS LTD. £/\$

OR Please debit my credit card* to the value of £/\$



*please indicate

Account No.

Expiry Date

Signature

Please post your order to: Guild of Master Craftsman Publications, Castle Place, 166 High Street, Lewes, East Sussex BN7 1XU England.

R22



Long Life, Reliable BANDSAW BLADES

If you're tired of blades which don't cut straight, blunt rapidly, go 'bump' or break at the weld, give me a call: I'll send you our **FREE** brochure explaining why hundreds of our customers have called or written to us to praise our unique **FlexbackPLUS** bandsaw blades! As David Bates (of Stiles & Bates, woodturning suppliers in Dover) says "Having hunted true cutting, long life blades for cutting circular discs for eight years now I can definitely say that your Dure-Edge blades are superior to any other I have tried including most UK blades advertised and two US makes. A blade I can use and sell with confidence."

FlexbackPLUS - Prices and Discounts

WIDTHS	1/4"	3/8"	1/2"	5/8"	3/4"	1"	1 1/4"	Order Qty.	Discount
TPIs, std gauge >	6 10 14 24 32	4 6 10 14	6 14	< TPis avail, thin gauge	3 4 6	3 4 6	2 hook		
Up to 54"	£6.23	£6.32	£6.50					1	-
Over 54" to 60"	£6.51	£6.61	£6.81					2	2%
Over 60" to 73"	£6.99	£7.10	£7.36					3	5%
Over 73" to 84"	£7.35	£7.54	£7.73	£9.24	£10.59			4	8%
Over 84" to 91"	£7.46	£7.66	£7.86	£9.41	£10.87			5	10%
Over 91" to 104"	£7.79	£7.99	£8.33	£9.99	£11.39			6-7	11.5%
Over 104" to 114"	£8.26	£8.56	£8.79	£10.59	£12.23			8-9	13.5%
Over 114" to 126"	£8.87	£9.12	£9.48	£11.39	£12.83	£16.29		10-14	15%
Over 126" to 135"	£9.21	£9.64	£10.07	£11.99	£13.49	£17.43		15-19	17%
Over 135" to 144"	£9.66	£10.10	£10.54	£12.59	£14.29	£18.55		20-29	18%
Over 144" to 156"	£10.19	£10.56	£11.02	£13.33	£15.39	£20.15		30-49	19%
Over 156" to 168"	£11.09	£11.59	£11.99	£14.59	£16.49	£21.69		50+	20%

Notes: Prices include VAT, postage and packaging. Discounts apply to any mixture of sizes/tpi's. Prices over 73" apply to std gauge blades. For thin gauge blades longer than 73" or any prices not shown due to lack of space, call 0161 430 2647 for an immediate quote. We supply all lengths for all machines. We will endeavour to despatch at least part if not all of your order within one working day. Prices and discounts are subject to change without notice. E&OE.

To order, simply call 0161 430 2647 (Fax: 0161 430 8008) and specify FlexbackPLUS



Ref. TR.02.00

Dure-Edge

Address (for correspondence only): Dure-Edge, TR.02.00, 21 Station Rd, Woodley, Stockport, Cheshire SK6 1HN

READERS' OFFER

ARE YOUR TOOLS INSURED?

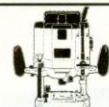


Consider how much money is invested in your tools. Could you replace them all at today's prices? Are you fully insured?

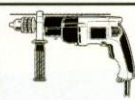


Phone today for full information on the range of policies offered to our readers.

**FREEPHONE
0800 40 10 10**



W



G. WARDILL LTD
Electric Power Tools And Accesories

DIRECT

CLOUGH ROAD HULL HU6 7PE

Mail Order Line: 01482 499955

Mail Order Fax: 01482 499956

Est 1971

ROUTERS



DEWALT
High Performance Professional Tools

£295.00

DW625EK
1850w, 1 1/2", Vari Speed
Carry Case

We Stock the Full Range Of DeWalt Routers
Call For Latest Prices

BOSCH

£179.00

GOF900ACE

900w, 1 1/4", Vari Speed
Fine Adjust Fence

We Stock the Full Range Of BOSCH Routers
Call For Latest Prices

CALL OUR DIRECT SALES LINE ON 01482 499955
FAX YOUR ORDER ON 01482 499956

CORDLESS TOOLS

DEWALT
High Performance Professional Tools

DW912K2
12v Combi Drill/Driver
c/w 2 Batteries

30 DAY NO RISK
SATISFACTION
GUARANTEE



£209.00

DW952K2
9.6v Drill Driver
FREE THIRD BATTERY



£119.00



DW953K2
12v Drill Driver
FREE THIRD BATTERY



£181.00

BOSCH
GSR12 VE-2
12v Drill Driver
c/w 2 x 2ah
NiMH Batteries

WOODSCREWS

LOW LOW PRICES ON HIGH QUALITY BRITISH MADE
BZP TWINFAST COUNTERSINK WOODSCREWS

6x1 (200) £0.86	8x2 (200) £2.03
8x1 (200) £1.13	10x1 1/2 (200) £2.09
8x1 1/2 (200) £1.33	10x2 (200) £2.37

FULL RANGE OF SIZES FROM STOCK

JIGSAWS



£129.00



£117.00

MAKITA **BOSCH**
4304T Jigsaw GST100BCE Jigsaw

NOW AVAILABLE!! BOSCH GST2000 JIGSAW
CALL FOR LATEST PRICE AND INFO!

MITRE SAWS

MAKITA **MAKITA**
LS1040 LS1013



£229.00



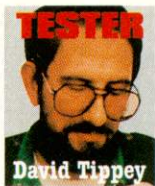
£569.00

TO ORDER

CALL OUR DIRECT SALES LINE ON 01482 499955
FAX YOUR ORDER ON 01482 499956

OUR SALES SPECIALISTS WILL BE HAPPY TO DISCUSS YOUR REQUIREMENTS
YOUR TOOLS WILL BE DESPATCHED FROM OUR STOCK SAME DAY
WE ACCEPT MOST CREDIT CARDS AND PAYMENT BY CHEQUE.

ALL PRICES INCLUDE VAT.
CARRIAGE FREE ON ALL MAINLAND ORDERS OVER £45.00
Prices correct at time of going to press
E+OE, Prices include VAT and are all subject to availability.



Peak

Router
Test

performance

David Tippey puts the Perform cutters to the test to see how they, well, perform

▶ *Three of the new range of Perform cutters*

▼ *A well-formed cutter body and thick tungsten carbide tip*



AXMINSTER Power Tool Centre have recently introduced a new range of Perform router cutters, to replace their Economy range of router tooling, and compliment their American, Jesada range of professional tooling.

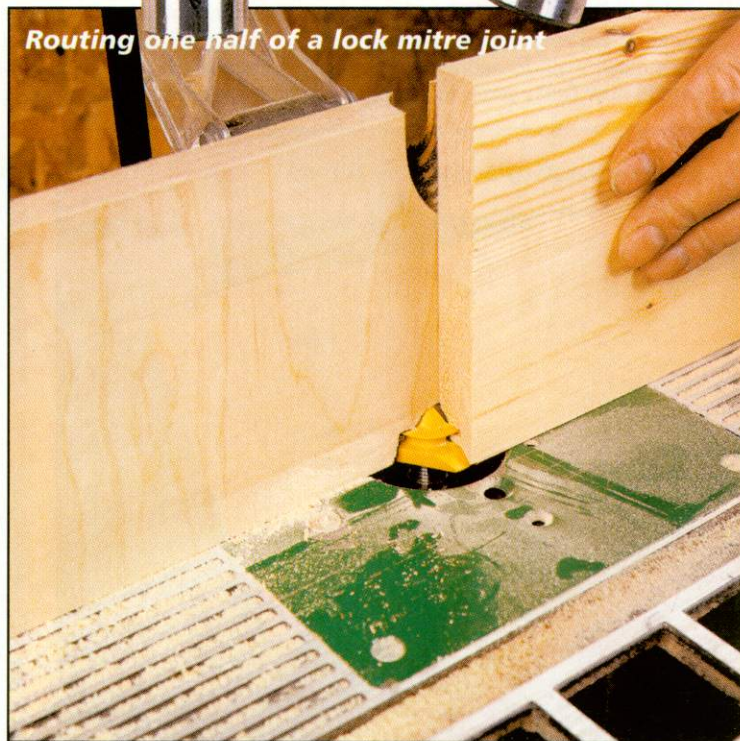
Made in the Far East by a major cutter manufacturer, who also makes some of the other 'own brand' cutters sold in the UK, these are not to be confused with the cheap Chinese products which are now widely being sold in boxed sets.

Cutter tips

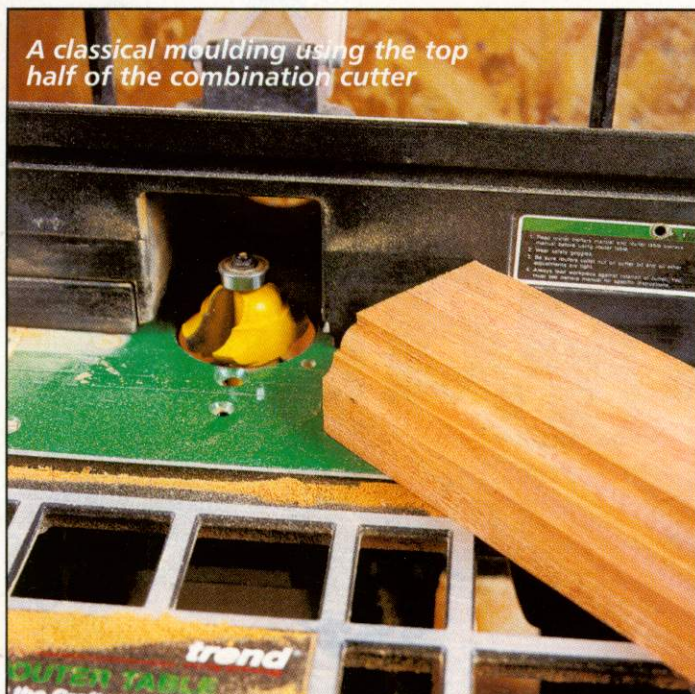
In spite of being an economy range, the Perform router bits are very well manufactured, with good quality fine grain, Sandvik carbide cutter tips. The tungsten carbide tip is much thicker than those used in the cheap sets on the market, so should give a longer service life, and they are diamond honed to a razor edge.

Cutters come packed in individual plastic boxes, well protected with the familiar dipped 'jelly'.

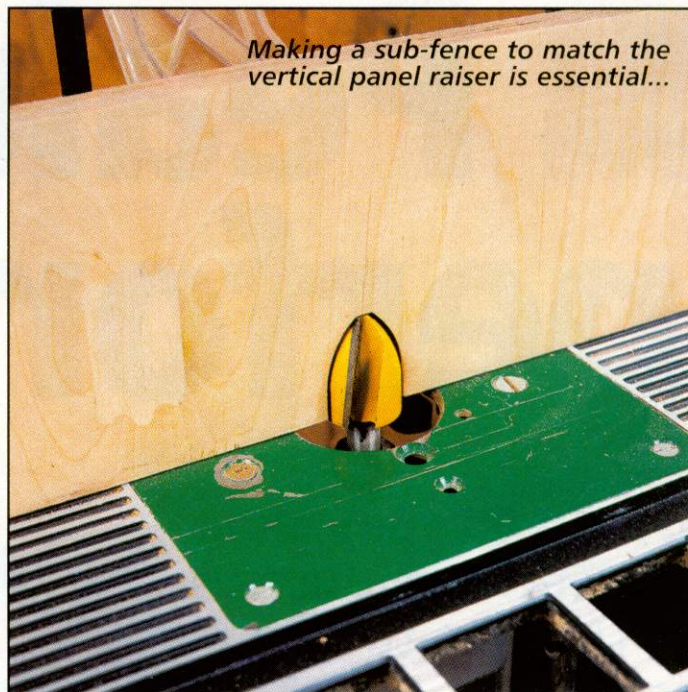
Routing one half of a lock mitre joint



A classical moulding using the top half of the combination cutter



Making a sub-fence to match the vertical panel raiser is essential...



Watch your fingers when you remove it. I nicked my finger on a sharp carbide corner, so I suggest you wear gloves!

Shanks are made from a high quality, tough grade of steel, hardened and ground, and incorporate a series of useful reference lines indicating how far the cutter is inserted into the collet.

These have several uses, including quick resetting of tools, and from a safety angle, indicating that sufficient shank is held in the collet, and that the cutter is tight and not slipping. The cutters also have a thick, yellow Teflon coating, making them easy to spot in the debris on your bench, as well as preventing the build up of resin whilst you work.

Extended range

The range of Perform cutters is much larger than Axminster's old Economy range, and you should now find cutters to perform just

"The cutters behaved perfectly and kept their edge"

about any task you wish. Their catalogue includes amongst many new items; dovetail cutters to suit a variety of commercial jigs; vertical panel raising cutters; an interesting sign-making cutter suitable for crisp, free-hand lettering and decorative work. There is also a much larger range of decorative moulding cutters in all sizes.

I used several of these cutters whilst making the oak longcase clock recently featured in the magazine. The lock mitre cutter was used in the case construction and several of the moulding cutters, including a vertical panel raising cutter, were used to create the complex collection of mouldings required for the project. Some of the very large cutters require slower speeds than

available on fixed speed routers and I had to use an external speed control with my table mounted Ryobi, but the cutters behaved perfectly and kept their edge, giving clean well-finished mouldings throughout the project.

A basic 12 piece starter set, supplied in a smart wooden box, costs only £53.96, providing you with a superior product for a similar price to that of many of the Chinese sets being sold. ●

Further details of Perform cutters are available from **Axminster Power Tool Centre**, Chard Street, Axminster, Devon, EX13 5DZ. Tel 01297 33656, e-mail sales@perform-tools.co.uk

...to get a neat raised panel effect



Anthony's addendum

The vertical ogee panel raiser makes panel raising in a small table very practical, though a purpose-fitted sub-fence is vital to avoid tearing across the grain. The combination cutter gives a variety of mould positions very quickly, and the lock mitre isn't so big as to be scary to use – though you need to take care that cross-grain passes don't tear the wood out. Very useful for quickly knocking up a set of drawers without complicated setting up.

I enjoyed using these cutters, and the industrial-strength carbide gives a feeling of confidence. On the minus side, the shank metal seems a little soft as slight nibs can occur where the collet may dig-in slightly, these nibs can be filed off though. Also, the snazzy bright yellow finish can get rubbed off a bit after heavy use. Nevertheless a nice range of very usable cutters to consider adding to your collection.

attractive cutters... *...attractive prices*


JESADA TOOLS™

Three Piece Door Maker's Set - 1/2" Shank



SAVE £16.32

£115.95 inc VAT

Patterns available - Ogee, Standard,
Bevel & Radius and Cove

Five Piece Kitchen Set - 1/2" Shank



SAVE £23.35

£155.95 inc VAT

Patterns available - Ogee, Standard,
Bevel & Radius and Cove

*...all the way
from the USA*

*Jesada Router
Cutters 2000 Catalogue*

For further details telephone **01297 33656** or email
us at jesada@axminster.co.uk for your full colour catalogue

HALF PRICE BOOK OFFER

GARDEN FURNITURE

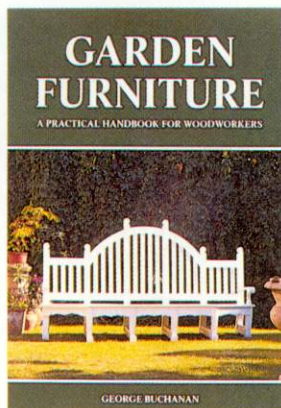
A PRACTICAL HANDBOOK FOR WOODWORKERS

GEORGE BUCHANAN

The complete guide to building your own classic garden furniture which will be a joy to use. A wide range of garden furniture projects is included, from tables, chairs and benches to tree seats and planters.

Each project is accompanied by dimensioned plans, cutting lists and illustrated step-by-step instructions.

The furniture is built using straightforward, traditional joints. No special experience or skills are required and if you allow yourself the time and luxury of working carefully, you will be able to create some delightful and unique pieces to be proud of.



~~£12.99~~ **Now £6.49**
128 pages ISBN 0 304 34866 X

Please send me _____ copies of

GARDEN FURNITURE

@ **£6.49 + p&p**

POSTAGE & PACKING:

UK - £2.50 for the first book and an additional £1.50 per book thereafter.
OVERSEAS - £3.50 for the first book and an additional £1.50 thereafter.

YOUR ORDER WILL BE DISPATCHED WITHIN 28 DAYS

I enclose a cheque to the total value of

£/\$ _____

OR Please debit my credit card* to the value of

£/\$ _____



*please indicate

Account No. _____

Expiry Date _____

Signature _____

CREDIT CARD HOTLINE

TEL: 01273 488005 • FAX: 01273 478606

Name (please print) _____

Address _____

Postcode _____

Tel No. _____

Guild of Master Craftsman Publications will ensure that you are kept up-to-date on other products which will be of interest to you. If you do not wish to receive future mailings and special offers from GMC Publications, please tick this box ☐



Please post your order to:

Guild of Master Craftsman Publications,
166 High Street, Lewes, East Sussex BN7 1XU

R22

TAYLOR BROS LIVERPOOL LTD

THE WOODWORKING MACHINERY
& POWER TOOLS SPECIALISTS

Great Deals on:

RECORD POWER
SHEFFIELD - ENGLAND

DUST EXTRACTORS

RDX800i

HIGH FILTRATION EXTRACTOR



- 65 litre capacity
- Lightweight & Portable
- 2 metres of 102mm dia. tear resistant hose
- High filtration filters the air down to 0.5 microns
- Acoustic hood reduces noise levels

ONLY
£129.99 inc Vat

Carriage Extra

List Price
£174.00

Includes RDX800iA
Accessory Kit
(filter/collection bags,
stepped power tool
adaptor c/w hose)

RDX600i

HIGH FILTRATION EXTRACTOR



- 45 litre capacity
- Lightweight only 11kg
- 2 metres of 102mm dia. tear resistant hose
- High filtration filters the air down to 0.5 microns
- Acoustic hood reduces noise levels

ONLY
£114.99 inc Vat

Carriage Extra

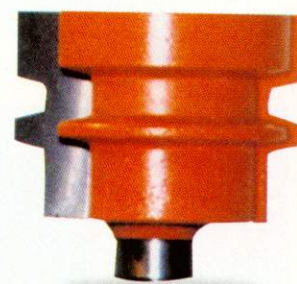
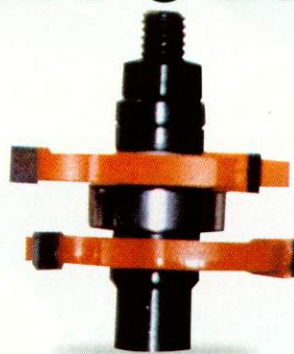
List Price **£129.00**

195 LONDON ROAD, LIVERPOOL, L3 8JG

0151 207 2967



The STRAIGHT and narrow



Bob Adsett is looks at the many different ways to make straight edge joints

RECENTLY I realised I have been making projects and writing articles using several different edge jointings, without looking closely at the various ways of doing the job.

Out of interest, I looked at the types of cutters that can be used for jointing, and was surprised at the amount of cutters that can be used for straight-edge jointing, the different thicknesses that can be joined with the same cutters, and how it is possible to work larger than stated with some router cutters.

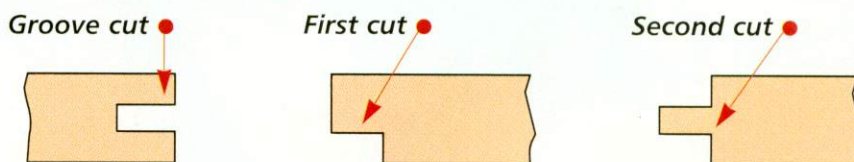
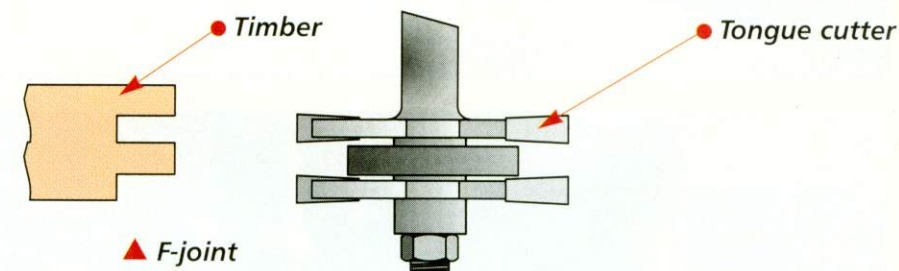
Setting up the cutters

With all cutters it is necessary to set up carefully on pieces of scrap wood. Joints made with cutters fitted with bearings are preset for depth of cut. When using these types of cutters with a fence in a router table, it is of the utmost importance to ensure that the bearings and fences are absolutely in line to get a perfect joint.

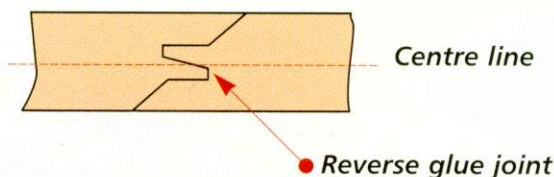
Tongue and groove

It is possible to start with either the tongue cutter or the groover. Whichever is used first, adjust vertically until either the tongue or groove are as close to the centre as possible. In all cases always work with the face of the timber down onto the router table.

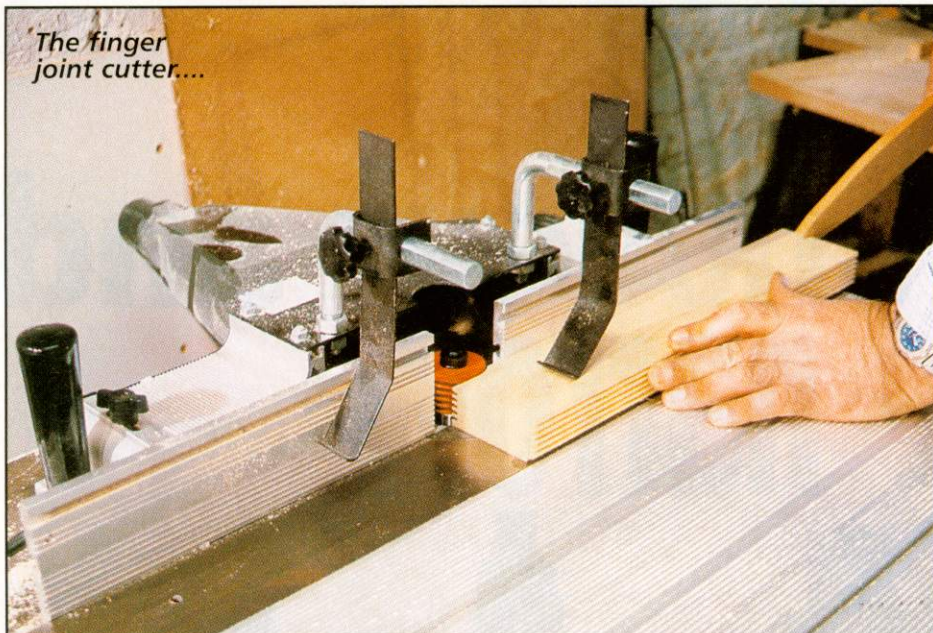
▲ Just a few of the jointing cutters available



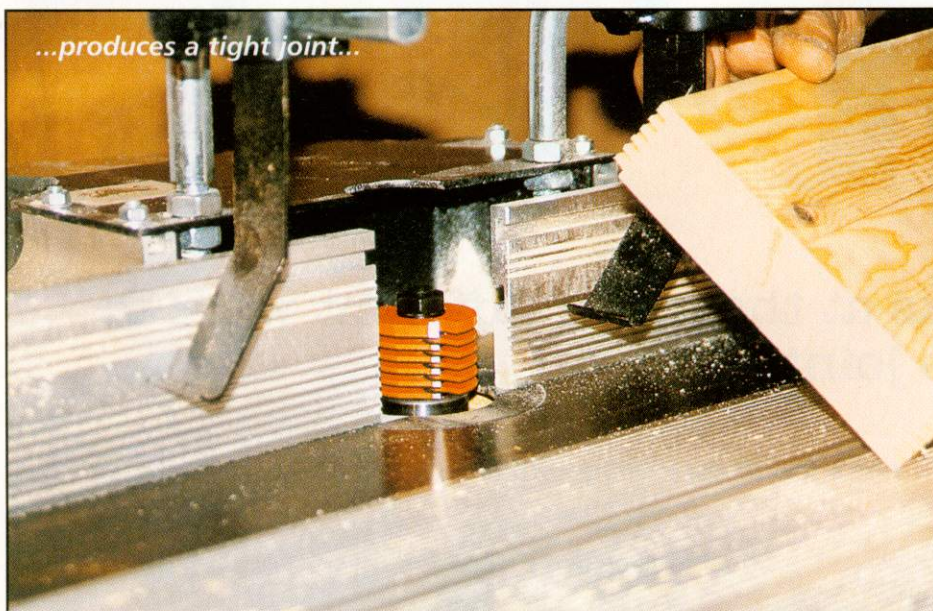
▲ Slot cutters



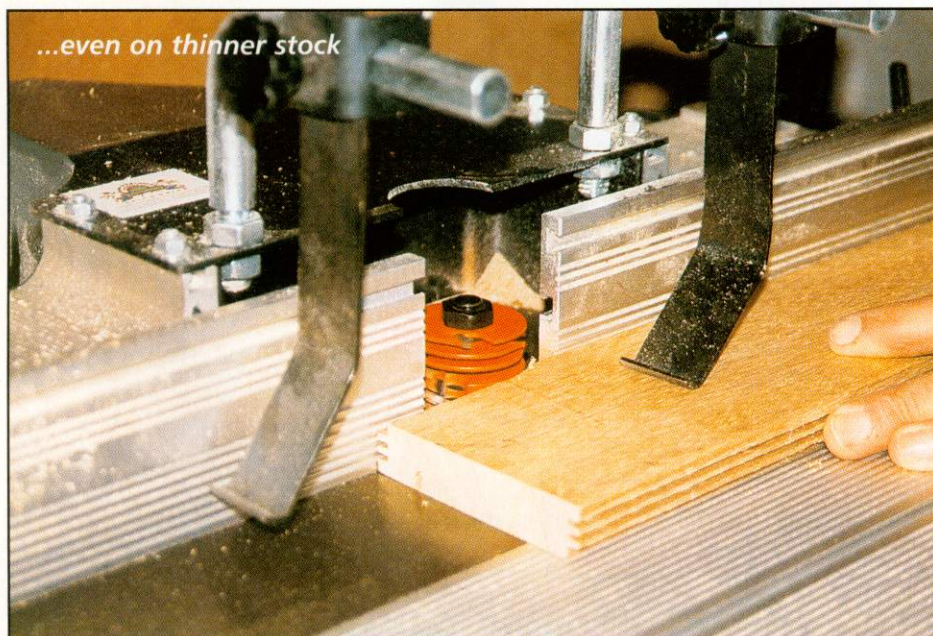
The finger joint cutter....



...produces a tight joint...



...even on thinner stock



"Ensure the bearings and fences are absolutely in line"

When all of one edge is machined, change cutters and align the other cutter so that the matching part of the joint meets up exactly. Any unevenness will require a fine adjustment of the cutter, up or down accordingly.

To produce the F-joint only the tongue cutter is used. This allows an extra 6mm in thickness of timber to be used. Vertical adjustment is needed until both faces align to give a clean joint.

The wing slot cutter set can be used by mixing the combination of different sized blades to get a variation of tongues and grooves. Using the smallest, 3.2mm groover, will allow tongue and groove on 9mm thick timber with ease.

"Cut the groove first and then the tongue from both sides"

Slot and rebate cutters

These range in size from 1.6mm to 6.35mm and again will allow a range of different size tongue and groove cuts from about 4.5mm upwards. It is probably best to cut the groove first and then the tongue from both sides, one side at a time. This allows any fine alignment required to get a good fit.

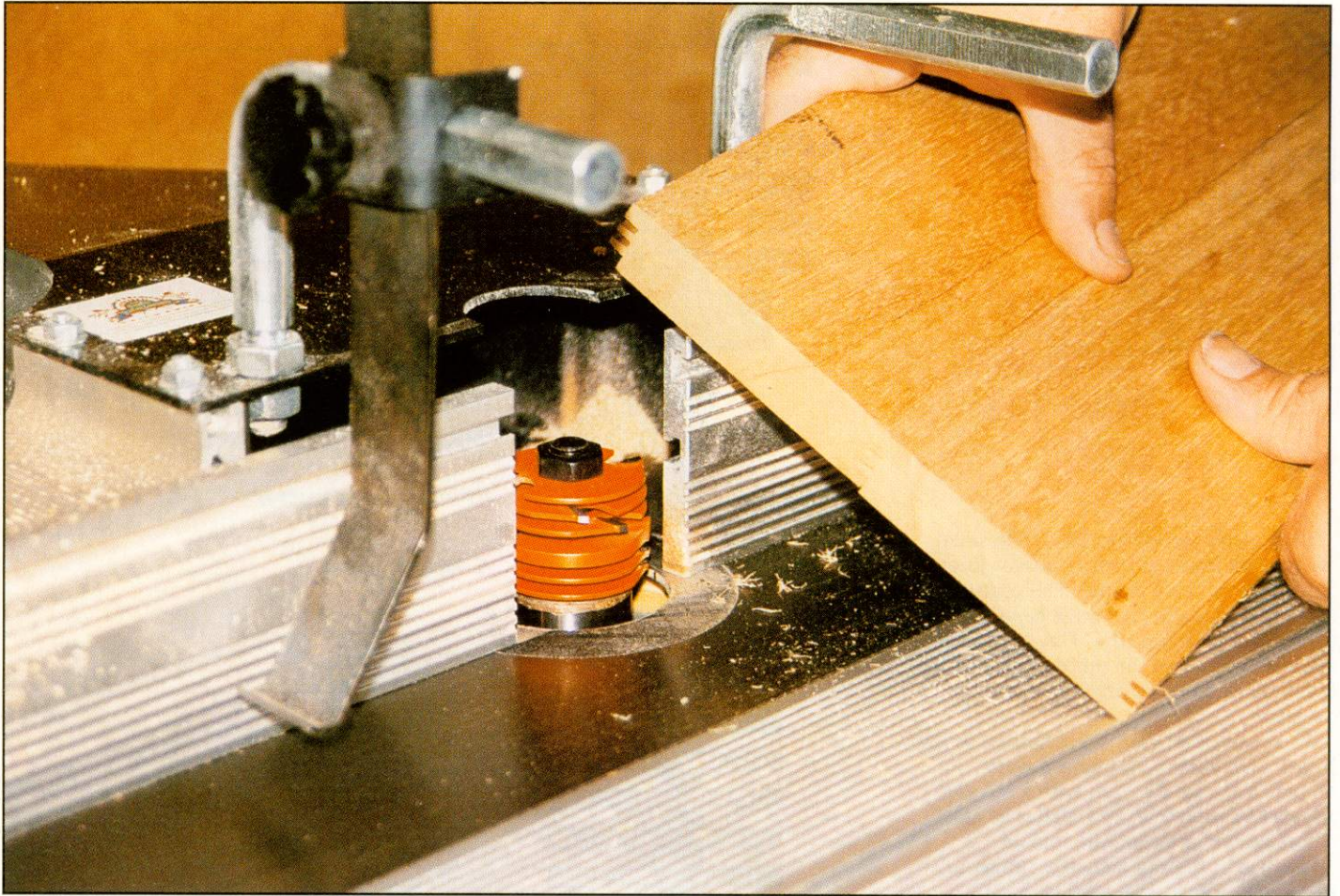
Rebate cutters are limited to use on larger thickness timber only, and are used the same way as the slot cutters.

I have used the reverse glue joint cutter previously in the construction of raised and fielded panels. It is important that the centre of the middle sloping tongue face is dead centre.

Finger joint cutter

Here the depth of cut is controlled by a bearing. The diameter of the bearing cannot be changed, as this controls the accuracy of the joint in conjunction with the spacing shims between each cutter. It is possible to work with one tapered cutter and the square cutter and bearing, or any number up to the full cutter size.

"To produce the F-joint only the tongue cutter is used"



▲ Using two cutter blades and a square blade with the comb joint cutter
 ▼ A reverse glue joint and cutter, blended with a raised and fielded cutter



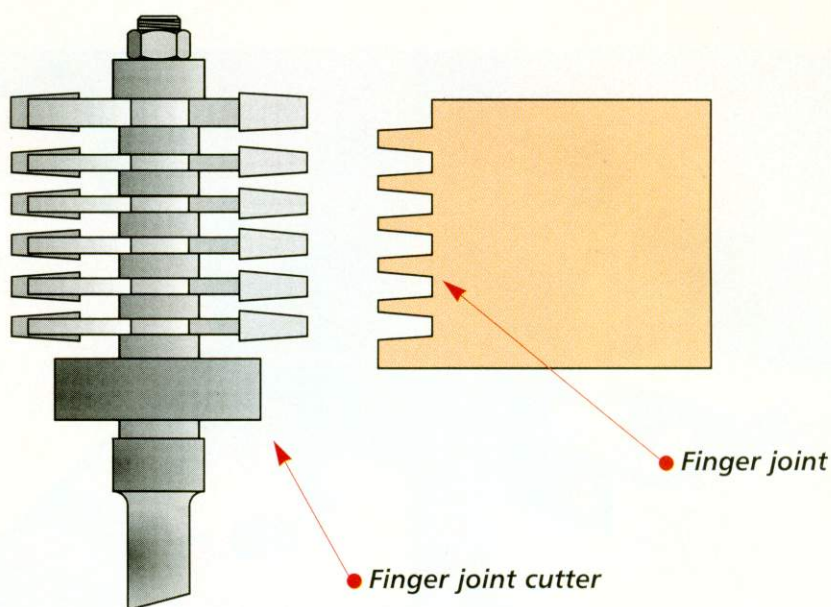
"To show the possible ways to joint edges I have used CMT cutters, but there are plenty of other makes which will do the same job equally well"

Lock mitre cutters can also be used for straight joints as well as corner joints. Setting up is fairly simple. The centre of the sloping tongue face must be at the centre of the timber edge. Cut two pieces and reverse one on the other and move the cutter up or down as required to get an even fit.

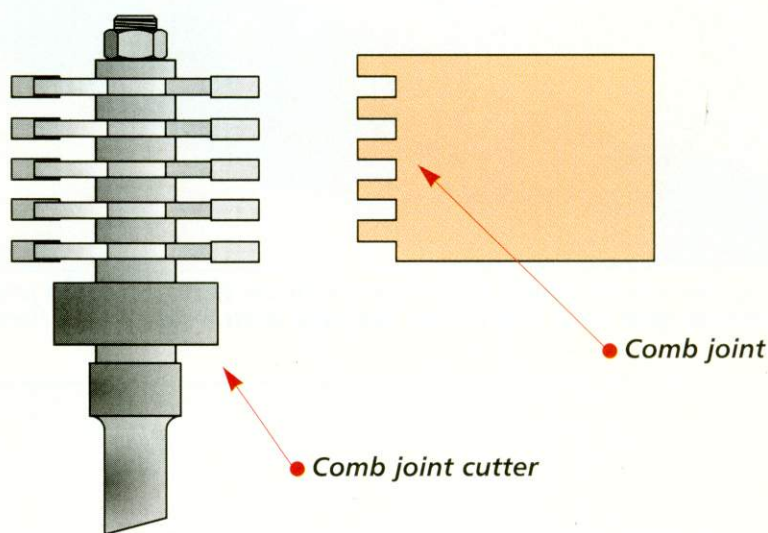
The comb joint cutters are similar to the finger joint cutters, but have square blades. They are also run with a bearing and can be used with two blades or any combination up to the full amount.

The use of the rail and stile cutters to make edge joints, even though it will work, is probably a little too elaborate. However, if no other cutters are available, then it is a possible solution to a problem.

To show the possible ways to joint edges I have used CMT cutters, but there are plenty of other makes which will do the same job equally well. Whichever type you use, a little thought can often solve jointing problems without having to buy new cutters. ●



▲ Finger joint



▲ Comb joint

Cutter list

Cutter type	Ref No.	Max size of timber that can be jointed
Tongue and groove set	800-626	19mm or producing a double F-edge 25mm
3 Wing slot cutter set	800-506	27mm or double cut on tongue 54mm
Slot cutters	822-316	With any variations of slotting discs making double cut for tongue up to 19mm
Rebate cutters	835-817	38mm. All of these cutting the tongue in 2 passes, one either side
	835-850	38mm
	835-851	57mm
Rebating sets	835-501	38mm, cutting tongue in two passes, one either side
	835-502	57mm, cutting tongue in two passes, one either side.
		Using the different sizes of bearings will give a variety of depth of cut options
Reverse glue joint cutting	855-501	32mm
Finger joint cutter	800-606	36mm
Lock mitre cutter	855-503	31mm
	855-504	22mm
Comb joint cutter	800-616	40mm

For elaborate shaped joints it is also possible to use the rail and stile cutters, both the one piece cutter and the two piece sets can cope with timber up to 22mm.

WIN **Makita**

POWER TOOLS WORTH £1500



FIRST PRIZE

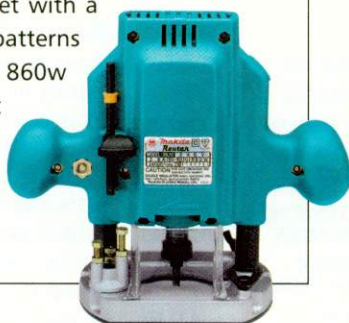
A TOP-OF-THE-RANGE MAKITA 3612C ROUTER

Pumping out a muscular 1850w, its features include a variable speed setting dial, a soft start facility and an electric brake which halts the spindle immediately the trigger is released and a convenient locking lever which allows repetitive routing operations. As with other members of the Makita router range, the 3612C comes with $\frac{1}{2}$ " (12mm) chuck capacity, totally adjustable depth control via a lockable threaded screw and three stage turret, convenient handle-mounted switches, a quick-fit fence and template guide and a 160mm diameter round base for safe, secure operation.

SECOND PRIZE

THREE MAKITA 3620 ROUTERS

The small tool packed with big attitude. For the budget conscious user who demands no expense spared performance the handy 3620 offers plunging action to three adjustable pre-set depths, $\frac{3}{8}$ " collet with a $\frac{1}{4}$ " reducer covers all popular patterns of cutters and the substantial 860w motor can drive the spindle at 24,000 rpm. It also comes with a straight guide assembly, 8mm, 13mm and 22mm wrenches and $\frac{1}{4}$ " and $\frac{3}{8}$ " collet cones.



THIRD PRIZE

FIVE BO4561 PALM SANDERS

Designed to tackle those awkward nooks we all encounter. Powered by a 160w motor which supplies around 14,000 rpm to the patten the result is a super fine finish, free of swirl marks. Compact, lightweight and ergonomically designed to accept hook and loop Quick-fit sanding sheets, the triangular extension to its patten is ideal for penetrating louvres shutters and other nasty places.



To win one of these superb Makita power tools simply answer the 3 questions below.

1. How many rpm can the 3620 router attain?
2. What is the power output of the BO4561 palm sander?
3. What is the capital of Bolivia?

TIE BREAKER:

Complete the following sentence in no more than 20 words.

A Makita 3612C router will give me the power to

Send your completed entry to:

The Router Competition (Issue 22), 86 High Street, Lewes, East Sussex BN7 1XN, UK.

Name

Address

Postcode

Telephone

All completed entries received by 25/2/2000 will be eligible. No entries received after this date will be considered. The judge's decision is final and no correspondence will be entered into. The organisers accept no responsibility for entries lost or damaged in transit. Photocopied entries are acceptable – you do not have to cut up this page. However, winners will be expected to be in possession of a copy of this issue of *The Router*. Only one entry per household.

Please tick the box if you are not willing for your details to be used for marketing purposes ☐

The Router

**HAND THIS
TO YOUR
NEWSAGENT
NOW!**

To be sure of future
copies of this exciting
new magazine



DON'T MISS AN ISSUE!

I would like you to reserve a copy of **The Router** for me on a regular
basis commencing with the _____ issue (month)

NAME _____

ADDRESS _____

POSTCODE _____

TELEPHONE _____

SIGNATURE _____

DATE _____

READERS' OFFER

ARE YOUR TOOLS INSURED?



Consider how much
money is invested in your
tools. Could you replace
them all at today's prices?

Are you fully insured?



Phone today for
full information
on the range of
policies offered
to our readers.

**FREEPHONE
0800 40 10 10**

ROUTERS

Dewalt DW613 800 Watt	£149.00
Dewalt DW621V 1100 Watt*	£229.00
Dewalt DW625EK 1850 Watt*	£289.00
Trend T5EK 850 Watt	£159.00
Trend Router Lathe	£127.00
Trend CRT/A Router Table	£145.00
Trend DJ300 Dovetail Jig	£96.00
Trend Mininmach Clamp Bed	£65.00
Trend CG/50 Clamp Guide	£40.00
Rainbow Set 12pc Cutters	£39.00

*includes 6pc router bit set FOC

DUST EXTRACTORS

Kity 694	£223.00
Elektra Beckum SPA1100	£198.00
Clarke CDE7	£219.00
Record RDX600i	£114.99

MARCH SHOW

3rd/4th March 2000

Router, woodturning, scrollsaw
and woodcarving demos.

Plus many special offers

Plus FREE entry and car parking

All prices include V.A.T.

All the above tools are on
display in our large showroom

PLUS MANY, MANY MORE...
OTHER BARGAINS ALSO AVAILABLE

Why not give us a visit or a ring?

We offer a mail order service
- please ring for details

R.S. Paskin & Co Ltd

Oldington Trading Estate Stourport Rd Kidderminster Worcestershire Phone 01562 829722 Fax 01562 829511

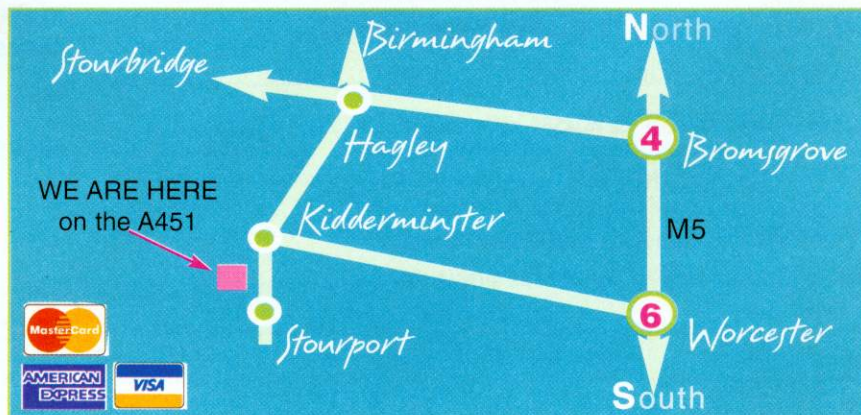
Hand and power tool specialists

BANDSAWS

KITY 413 6" CUT 10" THROAT	£299.00
KITY 613 8" CUT 12" THROAT	£499.00
DRAPER 39271 190MM THROAT	£109.00
DRAPER 31862 230MM THROAT	£159.00
DRAPER 36761 360MM THROAT	£219.00
ELEKTRA BECKUM BAS315 FOC	
LEGSTAND & 5 FOC BLADES	£289.00
ELEKTRA BECKUM BS150E	
HOBBYMASTER 150MM THROAT	£99.00
RECORD BK3 12" THROAT	£149.00
RECORD RPBS8 7.1/2" THROAT	£89.00
RECORD RPBS12 12" THROAT	£229.00

REXON NEW STOCKIST

SS16A 16" Scrollsaw	£99.00
SS16SA 16" 2 speed Scrollsaw	£129.00
DTS16A 16" var. spd Scrollsaw	£249.00
BS10 10" 3 Wheel Bandsaw	£99.00
BS10R 10" 3 Wheel Bandsaw	£149.00
BS10SA 10" 2 Wheel Bandsaw	£229.00
BS10KA 10" 2 speed 2 Wheel Bandsaw	£299.00
B13OR 1" Belt Sander	£49.95
BD46A 4" x 6" Belt -disc Sander	£149.00
WL12A 12" x 36" Wood Lathe	£179.00
WL618A 6" x 18" Wood Lathe & Chisels	£225.00
EBG 150A 6" Bench Grinder	£39.95



Router STUFF

This month **Anthony Bailey** tries out more handy stuff for the router user

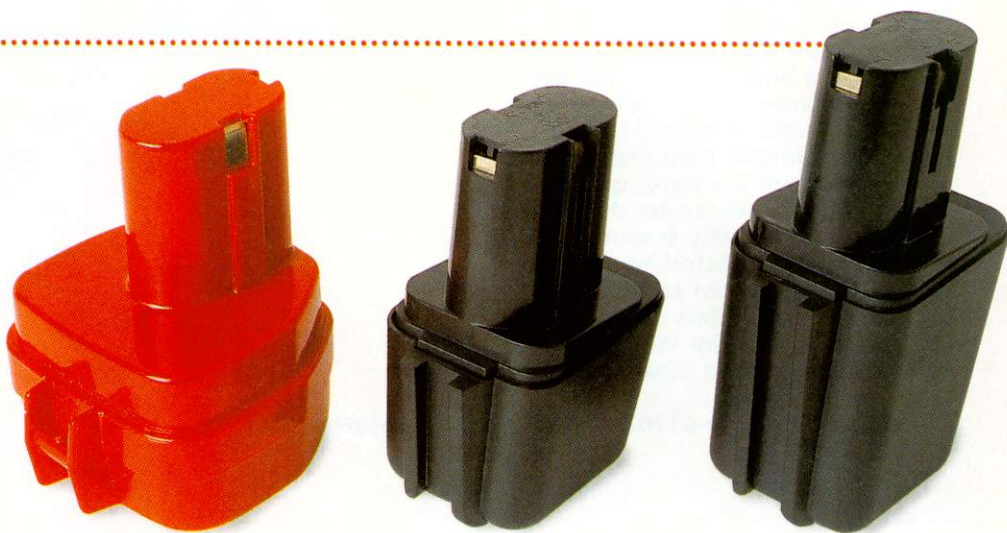
Charging up

IF YOU LIKE the idea of being charged less for a bigger 'charge' then the range of Hamilton substitute batteries for a wide range of cordless power tools will suit you down to the ground.

Shown are the Bosch 7.2 and 9.6V, and Makita 12V types, from a range of eight batteries intended for the most popular Bosch, Makita, Hitachi and Panasonic models. All are made from Sanyo 1.3ah grade cells for quality and performance without compromise.

These represent an excellent cost saving over the manufacturers' own batteries. The 7.2V costs £29.95, the 9.6V costs £31.95, and the 12V costs £39.95. All prices inc VAT.

■ Contact Simbles of Watford on 01923 212022.



▲ Get charged with Hamilton

Liberon Products

THE HUGE RANGE of Liberon products includes high quality waxes and cleaners. LibNet is a superb cleaner for all wood, it removes grime and old wax, use '0000' steel wool to apply. Next, use Black Bison special hardening wax in a variety of colours to give a tough wax finish that will blend in with an existing finish or just give a more pleasing colour. Its special micro-crystalate structure ensures you won't get any lumps or streakiness.

Tint 'N' Wax is perfect for waxing any bare softwood around the home. It has a low odour and can be applied to panelling, skirting, dado and furniture. It is available in six colours including three Pine shades, Oak and Medium Mahogany. If you just want to maintain your furniture properly use the Beeswax Polish, easy to apply and it has the natural scent of beeswax and turpentine.

■ For a catalogue and price list phone Liberon on 01797 367575.



▲ For all your wood needs

Woodstick

OCCASIONALLY there comes a need to fill holes in wood or metal quickly and easily with a superstrong filler. That's where Woodstick and Steelstick epoxy repair putty fits the bill. Each is packed in a sealable plastic tube as a light wood colour (Woodstick) or dark metal colour (Steelstick).

Each has a different coloured core which combines with the outer layer when thoroughly kneaded (using disposable gloves), then pressed into place. The result is a hard, quick-setting filler which can be shaped and sanded for a perfectly smooth repair to all woodwork, including carvings. Strong, weatherproof repairs are possible as these fillers can be used for interior or exterior work.

The Woodstick and Steelstick cost £5.81 each inc VAT.

■ Contact Tilgear on 01707 873434.

▲ *Super sticks*



and Steelstick

Ulmia Spring Clamps

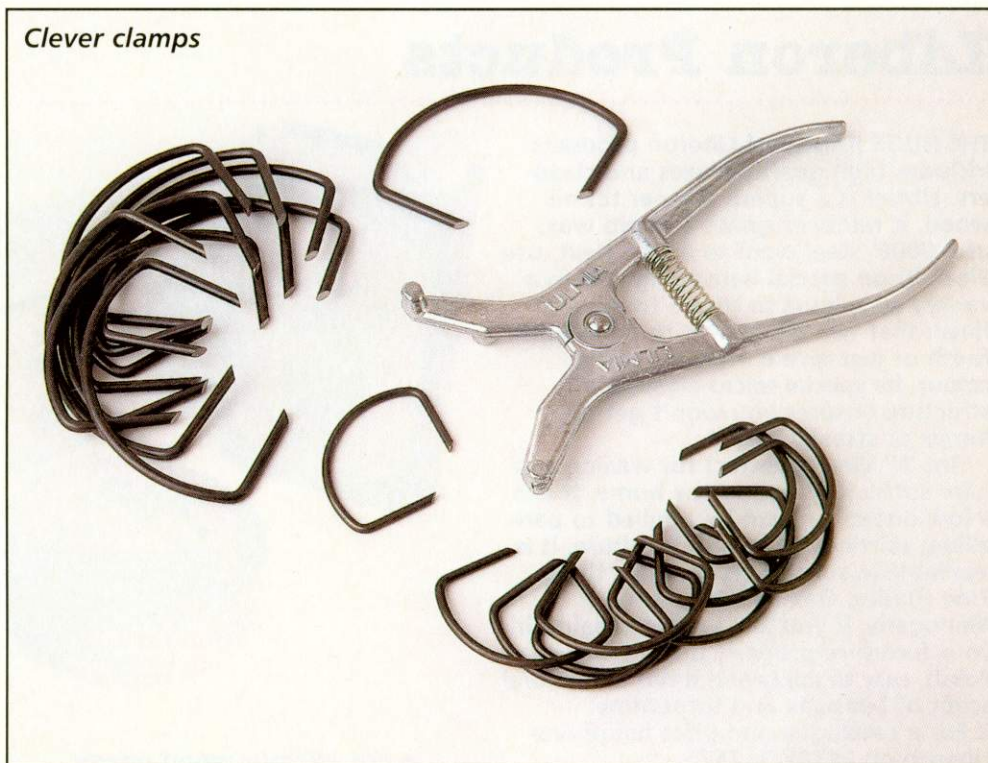
A REALLY NIFTY way of clamping this! The Ulmis spring clamping system consists of six different sizes of heavy-duty spring steel clamps with sharp ends designed to dig into the wood and firmly hold mitre joints closed. A special pair of light alloy expansion pliers grip the spring clamp, squeeze, and it opens enough to place it onto the mitred corner. On the other side of the pliers are cast nibs to hold the smaller sizes.

Clamps come in packs of ten. A quick and really effective way to close joints on picture frames, box corners and the like.

Spring Clamps between £1.47 and £2.05 each inc VAT. They come in a range of six sizes or as packs of ten. Ulmia Pliers cost £32.31 or Tilgear spreading pliers cost £14.69, both inc VAT.

■ Contact Tilgear on 01707 873434.

Clever clamps





INNOVATION BY

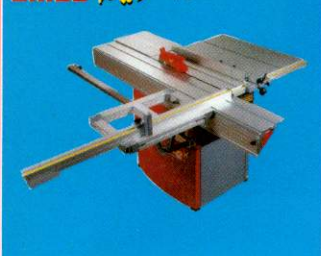
EMCO
Holzbearbeitung

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

knapp
Maschinenbau

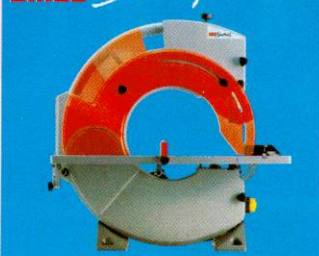
Semi-Professional / Professional

EMCO MAX



- ✓ 3 function saw
- ✓ expandable - begin small, become professional
- ✓ 83 mm cutting height
- ✓ choice of sliding tables: 920mm or 1800mm

EMCO SWING



- ✓ Band saw and disc sander
- ✓ Cutting height 160mm
- ✓ Throat 380mm

EMCO REX



- ✓ 1200mm planing table
- ✓ Cast iron thickening table
- ✓ 300mm width, 165mm throat

EMCO UNISTAR



- Universal Woodworker**
- ✓ 3 separate motors, 3hp each
- ✓ cast iron tables
- ✓ 3 speed spindle moulder
- ✓ choice of either 260mm or 310mm planer thickener

Professional / Industrial

EMCO PROFIE SF2



- Circular Saw/Spindle Moulder**
- ✓ 1550mm or 2100mm sliding table
- ✓ Heavy cast iron tables
- ✓ 92mm cutting height
- ✓ 3 speed spindle moulder

EMCO PROFIE A31



- Planer/Thickener**
- ✓ Heavy cast tables
- ✓ 310mm planing width
- ✓ 230mm throat
- ✓ 3 knife cutter block

EMCO PROFIE K31



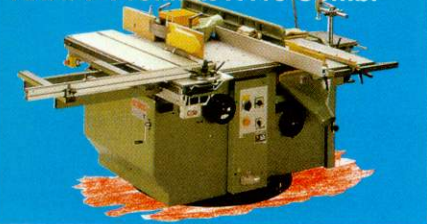
- 5 Purpose Combination Woodworker**
- ✓ 3 motors 3HP each
- ✓ 1550mm or 2100mm sliding table
- ✓ Spindle moulder
- ✓ Planer thickener
- ✓ Morticer

knapp

Expect the Best

Machines for Life

KNAPP Profimat K410 Combi



- ✓ 5 purpose universal machine
- ✓ 410mm planing width/230mm throat
- ✓ 103mm circ saw cutting height
- ✓ Tilting, reversible spindle moulder
- ✓ 3 motors, 4.2HP

**KNAPP Profimat A410
Planer/Thickener**



- ✓ 1700mm planing table
- ✓ 410mm planing width/230mm throat
- ✓ Cast, planed tables
- ✓ 4.2HP motor

**KNAPP Profimat KFS
Saw/Spindle Moulder**



- ✓ 103mm cutting height
- ✓ Scoring unit (option)
- ✓ Tilting spindle, 4 speeds
- ✓ 1.5, 2 or 2.5m sliding table

KNAPP Profimat K310 Combi



- ✓ 5 purpose combination woodworker
- ✓ 310mm planer/230mm throat
- ✓ Cast, planed tables
- ✓ Pre-Indexed sliding table

KNAPP Profimat KS Circular Saw



- ✓ Sliding tables up to 2500mm
- ✓ Max. cutting length 2850mm
- ✓ 315mm sawblade dia., 103mm cutting height

**Contact
us now for
full product
information**

Disc world

Terry Lawrence gets creative and routs a box replica of the island of St. Michel

MOST of you will have seen a photo of the island of St. Michel, which lies on the coast of Brittany, between Avranches and St Malo. The silhouette is like a flattened pyramid, the upper regions fortified with bastion walls, with the Abbey church on top. I loved the shapes, and this 11 compartment box is designed to suggest, not copy, the little island.

The box comprises of three wooden discs, topped by a simplified cruciform church. The slopes of the island are suggested by curved fillets of contrasting wood; the bastions by applied veneer arch-work; and the irregularities of the island's volume by steps in alternate quadrants of the base and centre discs.



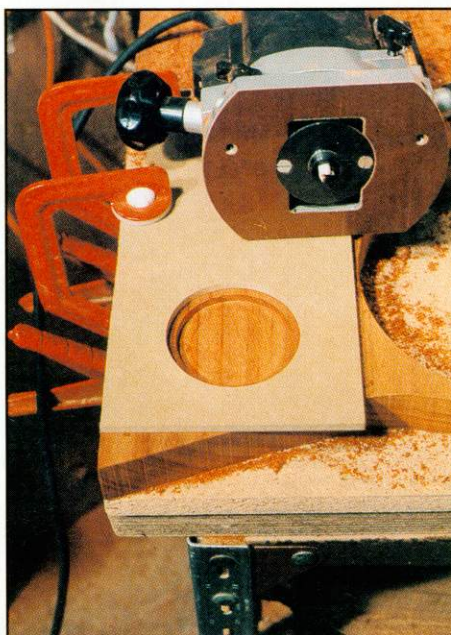
▲ Using the Trend pivot frame jig to plane the base disc flat

Preparing discs

My padauk plank had wind and warp, so I had to flatten the discs cut from it, using the Trend pivot frame jig in ski mode. Photo 1 shows the simple set-up; two batens pinned to the worktop, and a couple

Tooling up

- Trend T5 router, 1/4in collet
- Trend pivot frame jig (to surface the discs if warped)
- 20mm guidebush
- 3/8in straight cutter
- 1 3/8in rebating cutter, with 1 1/8in guide bearing

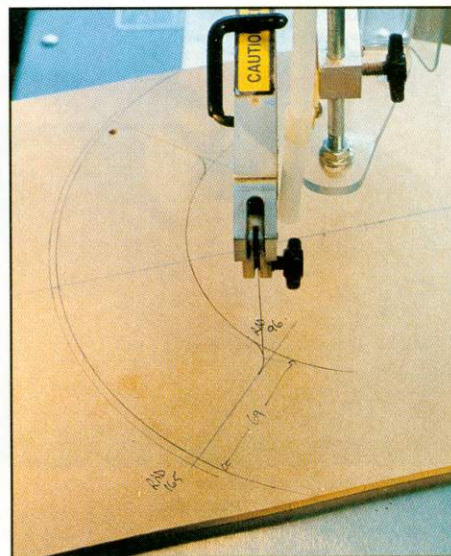
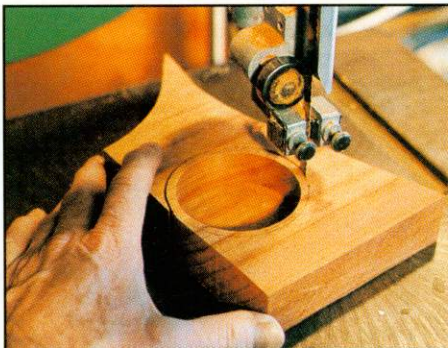


▲ Routing the interior of the top section using a guidebush

of pieces of scrap fore and aft of the workpiece.

Fit a 1in straight cutter and a select a speed below maximum, (No. 4, 23,500rpm). With the workpiece between its chocks, convex side uppermost, starting from the right-hand side, push the router over the timber, taking about 0.5mm off the highest point.

▼ Cutting the top disc



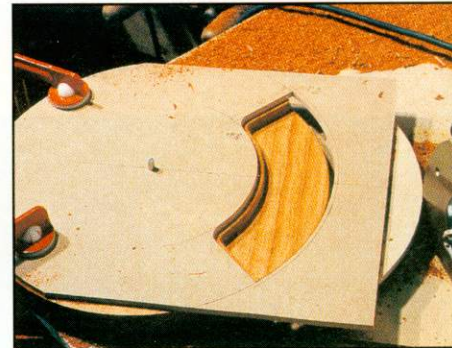
▲ Cutting the lower quadrants' template on the scroll saw

Take 1in wide cuts, moving the router on its rods to the left for each pass. This sequence, repeated, should leave the top truly flat. Flip the disc over and repeat for the concave side.

Templates

Screw a 20mm guidebush to the underside of the router base, and set up a 3/8in straight cutter. This assembly is used

▼ One of the quadrants, routed out to a depth of 10mm. Note outer edge supported by scrap packing





▲ *The Mount St. Michel box*

inside a 6mm thick MDF template, which is clamped to the workpiece, to step the two quadrants of the base and middle

discs, and to rout the box compartments.

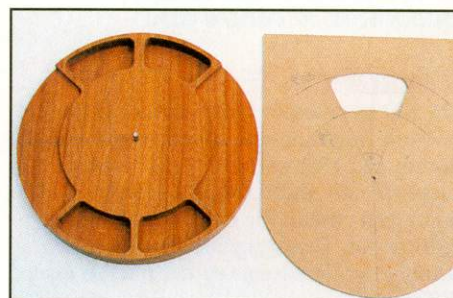
To get the correct registration, the templates and discs are drilled centrally to 6mm, the MDF right through, and the discs to a depth of about 20mm. Locate the template accurately with a short length of 6mm steel rod through both.

You will need five templates and, although the diagrams show the

dimensions and curves of the cut-outs in the templates, you may find it easier to lay out each by drawing direct onto the MDF.

The panel sizes may seem rather large, but they will need to be clamped so as to leave the working area clear, and should be supported where they over-reach the workpiece. It's easier to clamp the templates if their blank ends are curved to match the rim of the workpiece below.

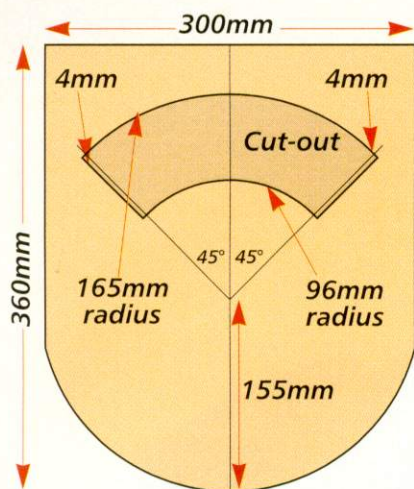
▼ *The base, with centre 6mm peg for template registration, and the four small compartments routed*



▲ *The three levels, ready to rout the compartments...*



▲ *...and the three compartments dry mounted*



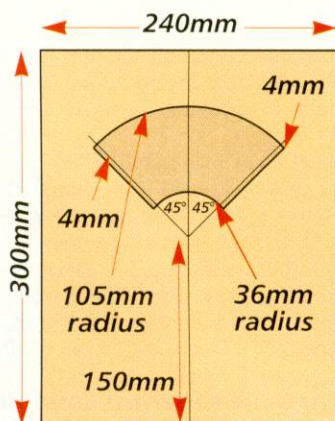
▲ **Template 1** Use to step two quadrants of base disc

Template 1

On a piece of MDF, 300 by 360mm, mark the centre line, and the centre of the locating peg-hole, 155mm in from one end. With compasses on the peg centre, draw two curves, radii 96mm and 165mm.

Draw two radius lines 45° left and right of the centre line, out to the larger curve already drawn. Draw a line at each end of the curved shape, parallel with the radius line but 4mm outside. This compensates for the difference between the template and the smaller path of the cutter within its guidebush. Now cut out the curved quadrant shape (a No. 5 blade on the scrollsaw is fine), and then drill the peg hole.

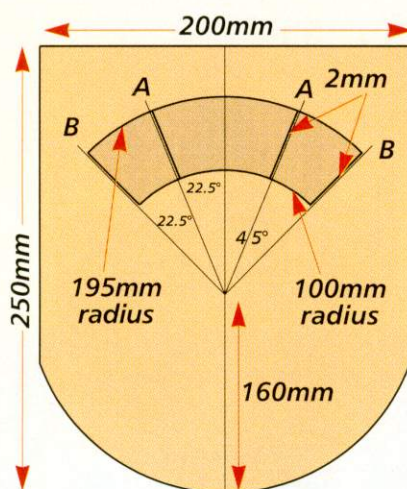
This template is used to rout two quadrants of the base disc, 320mm dia, so they are 10mm lower than the other two.



▲ **Template 2** Use to step two quadrants of centre disc

Template 2

On 240 by 300mm MDF make a pin-hole 150mm from one end. Draw curves at 36mm and 105mm radii. Draw radius lines 45° left and right of the centre line, and again extend the ends 4mm before cutting out. This template is used for routing two quadrants of the middle disc, 200mm dia.



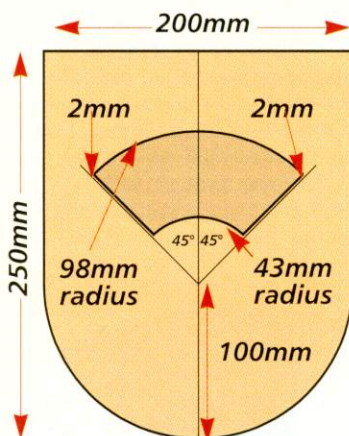
▲ **Template 3** Use AA to rout small compartments in base. Then cut template to BB to rout large compartments in base disc

Template 3

This is a dual-purpose template, initially cut to rout the four smaller compartments of the base, and then enlarged for the two big compartments. All share the same curvature. On a piece of 300 by 360mm MDF, peg a hole 160mm from one end. Draw curves at 100mm and 159mm radii.

Draw radius lines 22.5° left and right of the centre line, then reduce the template ends by parallel lines 2mm inside the first radius lines. This template is used to cut the four small compartments in the thickest, 30mm, quadrants of the base.

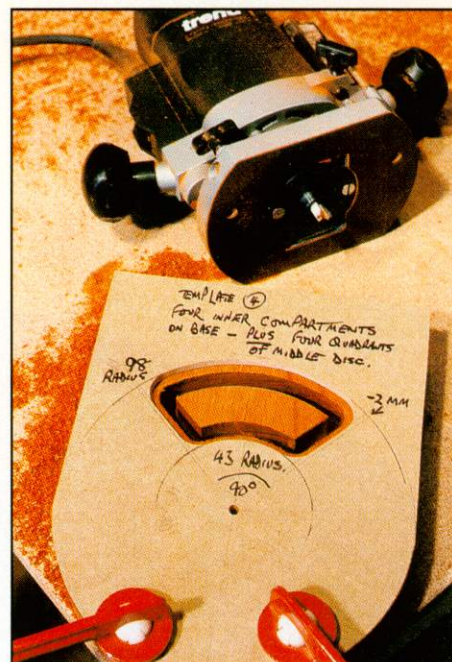
Having routed those compartments, enlarge the template by extending the ends of the curved template cut-out, with radius lines 45° left and right of the centre line. Draw parallel lines 2mm inside these and cut to those inner lines. This template is for the large compartments.



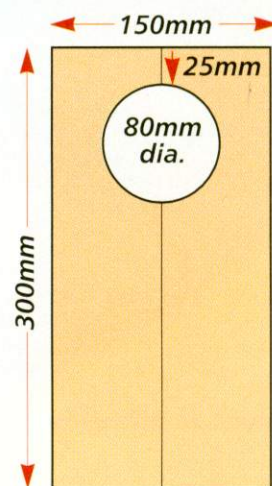
▲ **Template 4** Use to rout compartments in centre disc

Template 4

On a piece of 200 by 250mm MDF, peg a hole 100mm from one end. Draw curves at 43mm and 98mm radii, with radius lines 45° left and right of centre. Draw parallel lines 2mm inside the radius lines, and cut to these. This template is for the four compartments of the middle, 200mm dia, disc.



▲ **Centre disc routed with using template No. 4**



▲ **Template 5** Use to rout top disc and centre of middle disc

Template 5

Optional, as you could use the scroll saw to cut the top disc. On a 300 by 150mm piece of MDF cut a 80mm dia circular hole, about 25mm from one end of the MDF. There is no need to create a pin-hole.

Use this if you are hollowing the top disc to 70mm internal diameter, which is best done on the remaining piece of plank, before cutting out the disc. This template is also used to rout a central hole in the middle disc, if required.

"Ensure the wood grain of all three components are in the same direction"



▲ Second disc routed in outline with one of the compartments cut out...

Reducing the quadrants

Ensure the wood grain of all three components are in the same direction. On the base disc, 320mm dia, with grain running left to right as you view it, mark north, south, east and west (0°, 90°, 180°, 270°). Bisect these 90° angles and mark lines 45° from each.

Rout the north and south quadrants (315° to 45° and 135° to 225°), reducing their thickness from 30mm to 20mm. Place the 6mm pin in your central hole and lay on template No. 1.

Align its central line with the 0° line you drew first on the timber. Place the assembly at the corner of your bench, centre line at 45° to the bench sides, and the cut-out of the template toward the centre, and clamp.

Use scrap to support the outer end of the template which overlaps the workpiece. If you don't, the router plus your hand pressure will deform the cut, as the MDF will bend at the outer limit of the router's travel.

With a 20mm guidebush and $\frac{3}{8}$ in straight cutter fitted, set your depth stop to give an initial cut of about 2.5mm to 3mm depth. With the bush located within the template, plunge the router and move it clockwise around the template, then remove the rest of the waste inside this cut.

Repeat, increasing the depth 2.5mm each time until you have removed 10mm, which will leave a thickness of 20mm in which you will rout the large 15mm deep compartments later. Repeat for the second, opposite,

quadrant. Follow the same procedure for the middle, 200mm disc, using template No. 2.

Routing the compartments

The procedure is very similar to that for the quadrants. Start with the small base compartments, using template No. 3, supporting the outside of the template with scrap. Remember to locate the template to give equal spacing of the compartments within the thicker quadrants.

It helps if you first draw around the template cut-out onto the wood to see whether you have marked accurately. There should be a 5mm end wall for each finished compartment. Rout each compartment to a depth of 25mm, leaving a 5mm thick floor.

Enlarge template No. 4 as detailed above, and use it for the larger compartments in the stepped quadrants. Routed depth is 15mm to leave a 5mm floor.

When clamping for these larger compartments, ensure that the clamps are over the thicker, 30mm thick, quadrants of the workpiece. If you don't, the clamps will bend the template.

Template No. 4 can be used to rout the middle disc compartments completely but, to avoid much dust and time, I routed only around the outside of the template aperture.

I took this trench to a depth of 25mm, the maximum for safety with my cutter, leaving two thirds of its shank within the collet. I

drilled within this curved slot and cut out the block of waste with the scroll saw.

The surface of the base padauk disc forms the floor of the four middle disc compartments, and the centre circular cut-out. Use template No. 4 to rout four inner compartments in the base, to match the middle disc. This will increase the depth to 55mm. Use template No. 5 to do the same with the centre 70mm dia compartment, increasing its depth to 85mm.

Decoration

Cut four curved fillets from 3mm thick timber (I used Lemonwood), and glue them around the top disc. As you see, they are not at exactly 90° intervals, as I have placed them so that one vertical face is flush with the vertical wall of the routed step quadrant of the centre disc.

Cut and glue two slightly larger fillets, to the wall of the middle disc, each between two small compartments of the base.

Archways

Glue short lengths of veneer strip between the fillets, into which cut archways 10mm wide and 25mm high, at 5mm intervals. The strips are 30mm wide, to match the thickness of the padauk. It is important the grain of the veneer runs across the 30mm width, so it is vertical when glued in place. This ensures it will curve easily to match the curvature of the padauk wall.

Materials

Main timbers

Arch veneers

Discs

Lids

Church and fillets

Veneer

Brass knobs

Steel rod

MDF

Cameroon padauk (*Pterocarpus soyauxii*),

Lemonwood (*Calycophyllum multiflorum*)

Douglas Fir (*Pseudotsuga menziesii*)

Padauk 30mm thick, 1 disc 320mm dia, 1 disc 200mm dia, and 1 disc 80mm dia (from a plank 320 by 520 by 32mm)

Padauk 3 by 3 by 12in (from a strip, 75 by 5mm by 1.4 metres)

Lemonwood 2 by 2 by 12in

Leaf or 60 by 300mm minimum

$\frac{3}{8}$ in, quantity 10

6mm dia, 25mm long

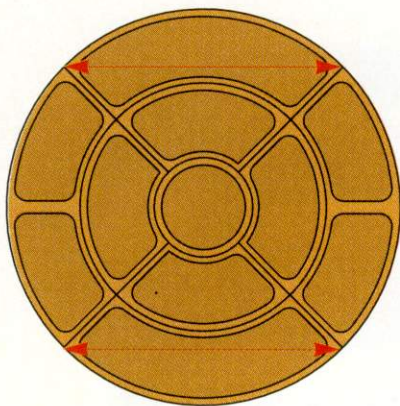
6mm, 1 sheet, 2 by 4ft for templates



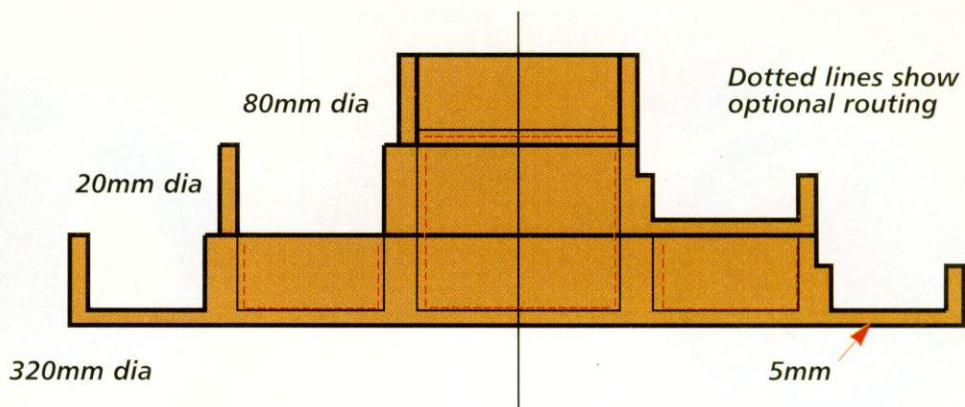
▲ ...and the centre disc finished



▲ The three discs, fully routed



▲ 90° quadrant reduced from 30mm thick to 20mm thick



▲ Left: shows cross-section of two quadrants of full 30mm thickness for each layer

▲ Right: shows cross-section of two quadrants, stepped at levels 1&2 by 10mm to thickness 20mm

All cutting was done, after marking out in pencil, with a Swann-Martin scalpel; No. 3 handle and No. 10A blade. Cut each strip a little overlength to produce four complete arches for each top section, and trim to fit.

Use the same pattern for the 30mm thick quadrants of the middle disc, five complete arches for each segment, either side of the lower fillets. The remainder is decorated with the little waste cut-outs from the archways. Reduce their height from 25mm to about 19mm, and glue them on at 5mm intervals. For symmetry, mark the exact layout with a paper strip marked at 5mm and 10mm intervals.

Church

I kept this very simple; a central spire, with four transepts, each with an end facade and a centrally-placed spirelet. All you need is a piece of timber 15mm thick for spire and transepts, and a piece 3mm thick for the rest.

All these pieces can be cut and shaped on the scroll saw, including the transepts which, being only 25mm long, can be placed on their ends on the saw table to cut the roof angles.

A No. 5 blade is fine for the thicker pieces, and a No. 1, at low speed, for the spirelets and pierced facades, pre-drilled with a 0.5mm drill bit. The whole assembly, when glued, is 70 by 70mm, which sits nicely on the lid of the top box.

Lids

Eleven lids are required, all cut from padauk 5mm thick. I cut strips from a square of padauk 3 by 3 by 12in on the bandsaw, at 6mm thick. When planed they finished at 5mm and, being 75mm wide, were large enough for ten lids to be cut from them.

The circular 80mm dia top lid was cut separately from a scrap piece of the plank I originally used for the box discs. The ten curved lids are 1/8in larger all round than the compartments they cover, so, if in doubt, make a paper pattern of the actual routed compartment and check it against your proposed cut on the wood strip. The top circular lid, at 80mm dia, matches the outside diameter of the top disc.



▲ The Lemonwood fillets added, veneer rampart arches glued in place. Waste from the veneer is used on alternate quadrants

Rebating

Rebate the lids to fit their compartments. I used the router inverted in my router table, with a 1 1/8in dia Jesada rebating bit fitted with a 1 1/8in guide bearing, to cut a 1/8in rebate. Depth of rebate should be about 2.5mm, half the lid thickness.

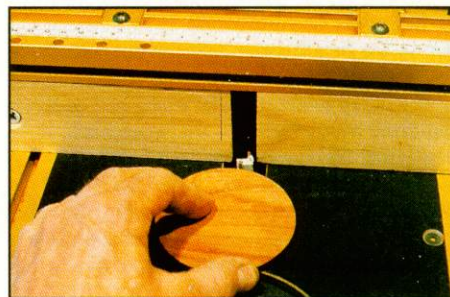
Rebate the top lid 5mm to match the thickness of the top box wall. The 3/8in cutter can do this easily. Set its height 2.5mm above the table surface, and position it proud enough of the fence to cut a 5mm rebate.

Bring the two fence cheeks up close to the cutter, and check the cut on scrap first. Push the lid into the cutter until it touches the two

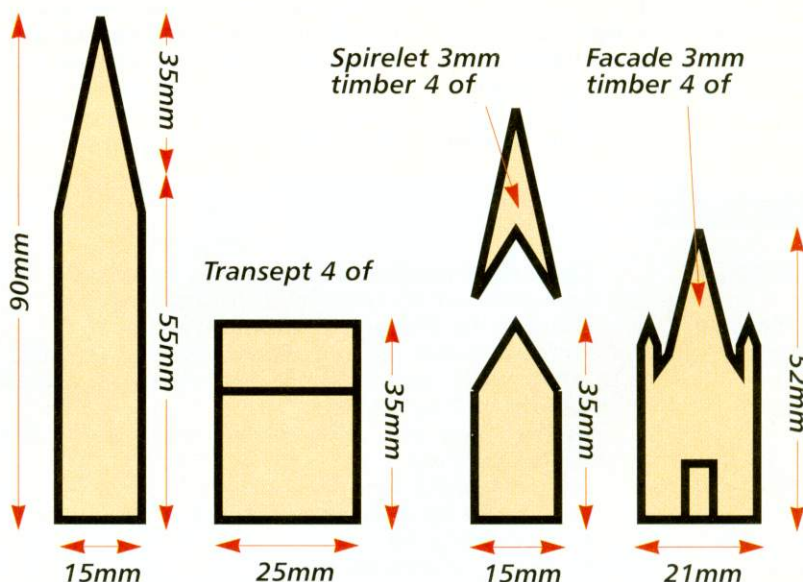
ends of the half-fences, and then rotate. Finally, fit the 10 brass knobs; mine came from The Art Veneers Co, Mildenhall, tel 01638 712550.

Drill each lid centrally to 2.5mm, except the top one which bears the church, and screw in the knobs. Use a scrap of leather in the jaws of your pliers to avoid scratching. Cut off, and file flat any excess screw-tip on the lid underside.

The choice of finish is up to you. I chose a coat of melamine, a light sanding with 400-grit abrasive cloth, and two applications of clear Briwax. Gentle polishing with a soft cloth completes the job. ●



▲ Rebating the top circular lid 5mm, (cutter-guard removed for clarity)



▲ Components for cruciform church

To advertise
in the March issue

call Linda on:

01273
402830

or email on

linda@thegmcgroup.com

Elysium

QUALITY FURNITURE



Build a clock for the millennium.

Model featured here is the Newport Grandfather clock. Sale price in 3/4" solid Ash with solid brass 8 day Westminster movement £695 inc. carriage. Many other models available. Call now for a full catalogue of longcase, wall and mantle clocks, also furniture and movements.

Elysium Quality Furniture
41 Bridge Street Pinner Middlesex HA5 3HR
Tel 0181 866 9999 Fax 0181 426 2222
E-mail elysiumemp@aol.com

JOE GREENER'S WOODWORKING CENTRE

Stockists of a wide range
of high quality
woodworking products.

Demonstration facility
try before you buy.

Personal service
guaranteed.

Regular demonstration
days and shows

Purpose built training
facility offering
woodworking courses.

Full in house test and
repair of most makes of
power tool.

find us at:
VALLEY 01325
STREET 382038
NORTH,
DARLINGTON
Co. DURHAM

Written details available
on request. Licensed credit broker.
*Interest Free Credit Offer applies to certain
product lines only. Ask for full details.

MILLENNIUM OFFERS

DeWalt 625EK 1/2" Electronic Router	£275
Trend T5E 1/4" Electronic Router	£149
Trend T5E c/w Trend 12pc cutter set	£180
Bosch GST2000 Jigsaw c/w free watch & blades worth £35	£149
Elektra Beckum KS210 Mitre Saw	£95
Elektra Beckum KS250 Mitre Saw	£175
Elektra Beckum KGS300 Mitre Saw c/w workstand	£325
Elektra Beckum PK200 Bench Saw c/w workstand, base rail, dust ext kit, side extension table & sliding table (special offer - price includes delivery)	£660
Trend DJ300 Dovetail Jig	£99
Trend CRT/Mk2 Router Table c/w fixing plate to suit your router & profiling top guard	£159
Trend Router Lathe c/w drive centre	£131
Trend T30A Dust Extractor	£149

All prices include VAT but exclude delivery unless stated otherwise

TO ORDER OR FOR A QUOTATION PHONE 01325 382038

Carriage charges - All machines under 10kg £5. Machines over 10kg P.O.A.

Visit us online - www.joegreeners.co.uk

01325 382038

We accept



The Router index

Want to find out which issue of The Router a favourite article was in? This handy guide will save you browsing through your back issues. If you started collecting The Router later than issue 13, then the index will help you select which back issue to purchase

Headline	Subject matter	Author	Issue	Page
Projects				
Rack 'em up	Magazine rack	Dave Mackenzie	13	21
Crafty cutter container	Cutter box	Bill Cain	13	30
Designer drawers	Chest of drawers	Roger Smith	13	41
The name's up	Routing house signs	Ray Everest	13	53
Elliptical illusion	Elliptical garden boxes	Jack Cox	14	23
Done roamin'	Trend Clamp Guide	Ray Everest	14	39
Countdown clock	Mantelpiece clock	Anthony Bailey	14	50
Transform tools	Restoring tool handles	Keith Randish	14	73
Stone store	Oilstone box	Anthony Bailey	15	20
Miracle mirror	Oddment shelf	Alan Parry	15	35
Rack attack	CD rack	Anthony Bailey	16	20
Get boxed!	Bits & bobs box	Terry Lawrence	16	43
Saucy storage	Saucepan rack	Bill Cain	17	19
Routing rectangles	Pencil box	Terry Lawrence	17	43
Producing panels	Cabinetmaking jig	Roy Sutton	17	57
Check mate	Chess board	Anthony Bailey	17	60
Sitting comfortably	Garden chair part 1	Jim Phillips	18	25
Hung well	Door hinges	Bob Adsett	18	47
Fantastic filing	Filing cabinet	Anthony Bailey	18	60
Bullseye	Centre finder	Glenn Roberts	18	73
Tidy tech	Computer workstation	Ian Hall	19	27
Neat seat	Garden chair part 2	Jim Phillips	19	57
Match maker	Glazed doors	Bob Adsett	19	75
On the case	Longcase clock clock part 1	David Tippey	20	27
The domino effect	Multi-compartment box	Terry Lawrence	20	51
Through the keyhole	Book ends	Ray Everest	20	67
Cabinet reshuffle	1920s style cabinet	Bill Cain	20	75
Brilliant breadboards	Biscuited breadboard	Bill Cain	21	19
Under the hood	Longcase clock part 2	David Tippey	21	31
Amazing mazes	Router-made mazes	Terry Lawrence	21	47
Beginners' Guide				
Routing a round	Cutting curves	Ron Fox	13	13
Table chops	Make a cutting table	Ron Fox	14	13
Conditioning cutters	Cutter maintenance	Ron fox	15	13

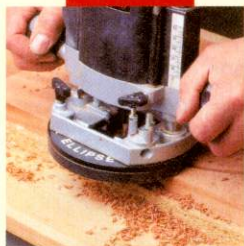
Headline	Subject matter	Author	Issue	Page
Safety first	Workshop safety	Ron Fox	16	13
Clear cut	Cutting directions	Ron Fox	17	13
Routing free	Freehand routing	Ron Fox	18	13
Fine cuts	Miniature cutters	Ron Fox	19	17
Doctor depth	Fine height adjusters	Ron Fox	20	17
Guidebush buster	Guidebushes	Ron Fox	21	12
Routing aids	Strong comb joints	Bob Wearing	13	72
Handy holes	Drill holes in a line	Bob Wearing	14	31
Perfect parking	Router stand	Bob Wearing	15	64
Just the joint	Loose tooth comb joint	Bob Wearing	16	29
Make a mini machine	Mini combination machine	Bob Wearing	17	31
Make a strong joint	Invisible splined mitre joint	Bob Wearing	18	31
Get set	Router setting gauge	Bob Wearing	19	35
Plentiful panels	Fielding panels	Bob Wearing	20	43
Hold it down	Hold-down systems	Bob Wearing	21	27
Router technical				
Extendible effort	Elu table extension	Roy Sutton	15	41
Fitting on the fence	Extended fences	Roy Sutton	16	57
Copy cutter	Copy follower	Roy Sutton	18	53
Doing dados	Dado rails	Anthony Bailey	19	47
On the edge	Edge planing jig	Roy Sutton	19	83
Regular joinery				
Get set go	Door sets	Bob Adsett	13	57
Dovetail drawers	Dovetail jig for drawers	Bob Adsett	14	59
Lovely looking lamps	Art Deco lamps	Bob Adsett	15	55
Beating panels	Raised & fielded panels	Bob Adsett	16	39
Tests				
Demand DeWalt	The DeWalt 625E	Alan Goodsell	13	27
Pillar talk	Trend Routerack	Paul Richardson	13	35
Bandsaw bliss	Elektra Beckum bandsaw	Anthony Bailey	13	49
Routing and writing	Vermont Pantograph	Anthony Bailey	14	20
Air care ware	Microclene air filters	Peter Lloyd	14	34
Uppers, downers,	Jesada spiral cutters	Bill Cain	14	43
Compact companions	Charnwood + Black & Decker workmate	Anthony Bailey	14	57
Virtually Virutex	Virutex routers	Anthony Bailey	15	26
Make it snappy	Trend Snappy system	Bill Cain	15	50
Whirling dervish	Power Devil router	Anthony Bailey	16	26
Go for your gun	Staple guns	Bill Cain	16	33
Smooth operator	Ryobi AP-10N thicknesser	Anthony Bailey	16	62
Talking tables	Vermont industrial router table	Anthony Bailey	17	25
King of the Hilti	Hilti sanders	Anthony Bailey	17	37
Crucial cutters	Jesada tenon cutter	Bill Cain	18	21
Moisture meters	Moisture meters	David Tippey	18	43
Solid support	Rousseau router tables	Anthony Bailey	18	56
Router table round-up	Router table guide	Anthony Bailey	19	39
Trend time	Trend routing kit	Alan Goodsell	19	53
Flexifix systems	Duflex & Versofix disposable tips	Bill Cain	19	69
Pret-a-Porter Cable	Porter Cable router	Paul Richardson	20	23
Big boy bonanza	Heavy weight router round-up	Anthony Bailey	20	35

Headline	Subject matter	Author	Issue	Page
Cute cutters	CMT junior panel cutters	Anthony Bailey	20	49
Electric reels	Cable reels test	David Stokes	20	57
KWO'd	KWO Secuflex profiling system	Bill Cain	20	72
Mr universal	The Unibase	Anthony Bailey	21	23
Top or body	Hilti jigsaws	Alan Goodsell	21	39
Features				
The Router index	Index 1 – 12	James Shanahan	13	61
Professional essentials	Roger Smith's workshop	Anthony Bailey	13	67
The cube comes clean	The nonsense block	Bill Cain	14	47
My router workshop	Paul Richardson's workshop	Anthony Bailey	14	67
The Jesada edge	Jesada factory visit	Alan Goodsell	15	31
My router workshop	Anthony Bailey's workshop	Anthony Bailey	15	46
My router workshop	John Lloyd's workshop	Anthony Bailey	16	50
Coming ATME '99	ATME details	James Shanahan	17	28
My router workshop	The Tin Tabernacle	Anthony Bailey	17	53
Web watch	Internet review	James Shanahan	18	37
Axminster awaits	ATME details	James Shanahan	18	69
My router workshop	Ron Fox's workshop	Anthony Bailey	18	76
Cyber sleuth	Internet review	James Shanahan	19	24
Tool time	ATME details	James Shanahan	19	65
My router workshop	Alan Goodsell's workshop	Anthony Bailey	19	87
The first cut	Ron Fox routing course	James Shanahan	20	61
CAD courses	CAD course info	Roger Ley	20	83
My router workshop	Oliver Clark's workshop	Anthony Bailey	20	87
Projects in print	Photographing projects	Anthony Bailey	21	43
My router workshop	Bill Cain's workshop	Anthony Bailey	21	57
Stuff				
Trend cutter & collet care kit, Quality plywood,			13	64
Wealden combo profile & scribe cutter set, Vermont America depth gauge				
Hinge morticing templates, Screwfix cutter set,			14	64
Brennenstuhl cable reels, Veritas shelf drilling jig				
Woodrat glide lubricant, GPS alternative ivory,			15	60
Veining cutters, Workmate holdfasts				
True Angle protractors, Veritas carpenter's gauge,			16	54
Slick tape, Wealden TG & V cutter				
Microclene MC500, Veritas sliding square,			17	50
Knapp fastenings, Axminster board clamps				
Oldham Viper cutters, Charnwood NVR switch,			18	66
Sash cramp extension bar, Sweepa rubber broom				
Trend jig & accessories, Axminster Stayput light,			19	80
The Knack utility knife, Rocol lubricants				
Pony framing clamp, Ear plugs,			20	80
Lightweight fire extinguisher, Toggle clamps				
Tilgear bit set, Domestic whetstone,			21	54
Diamond driver bits, Liberon products				

Back issues available from: Back Issues, The Router, 166 High Street, Lewes, east Sussex, BN7 1XU. Tel: 01273 477374, fax 01273 478606.

WRITING BOOKS ABOUT ROUTING

If you have ever thought of writing, or have written, a book about your craft, contact our Books Editor for an initial discussion.



New and inexperienced writers will be given advice and guidance by a friendly and professional team.

Write to:
Stephanie Horner,
Managing Editor
GMC Publications Ltd
166 High Street
Lewes, East Sussex BN7 1XU
or telephone 01273 477374



The CAM TECH **27** c.n.c. Machining Centre

- Machine sizes from 1320mm x 1320mm to 3050mm x 2050mm
- 170mm vertical Z axis movement 180mm under gantry clearance
- "Star" linear profile bearings on X, Y and Z axes
- Simultaneous 3-axis movement for 3D work, carving, etc
- Variable feed rate up to 12 m/min
- 3hp to 7hp motor sizes - 21,000r.p.m.
- Prices include delivery, installation and training (U.K. mainland only)
- Suitable for machining wood, MDF, plastics, aluminium, foam, etc
- Options include vacuum table, Desoutter drilling head and Scanvec software

Prices from only **£16,600.00 +V.A.T.**

including Perske Router and inverter, delivery, installation & training (UK mainland only)

CENTRAL WOODWORKING MACHINERY CO LTD
Unit 12B Scar Lane, Milnsbridge, Huddersfield, HD3 4PE

Tel: (01484) 641641 Fax: (01484) 460101

An individual binder for your magazines



Now you can keep your magazines in order and build up a complete practical reference library.

These attractive, durable dark green leather-cloth binders with gold blocked spines each hold up to 12 issues and are an ideal way to protect your magazine collection.

Please allow 28 days for delivery.

UK £	Overseas	US \$
£6.95 each	£6.95 each	\$14.00 each
plus £2.50 p&p	plus £5.25 p&p	plus \$8.00 p&p

Please send me _____ (no.) binders for ...

Mr/Mrs/Ms

Address

Postcode

Tel

- ☐ Dolls' House
- ☐ Furniture & Cabinetmaking
- ☐ The Router
- ☐ The Scrollsaw
- ☐ Water Gardening
- ☐ Woodcarving
- ☐ Woodturning

CREDIT CARD HOTLINE TEL: 01273 488005 OR FAX 01273 478606

I enclose a cheque to the total value of made payable to GMC PUBLICATIONS LTD.

£/\$

OR Please debit my credit card* to the value of

£/\$

*please indicate



Switch issue no ☐

Account No.

Expiry Date

Signature

TR22

Guild of Master Craftsman 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 write to the Marketing Department at the address shown below.

Please post your order to: Guild of Master Craftsman Publications, Castle Place, 166 High Street, Lewes, East Sussex BN7 1XU England.





GPS AGENCIES

The only Cast Polyester with the characteristics of real IVORY, at a fraction of the cost of the real thing. It is ideal for those who previously turned ivory or those who wish to experiment with alternative materials.

THE IVORY ROD is totally convincing and can be aged using tannic acid (tea) or 'Dylon' dyes. Also available are plain colour, horn, wood, marble, metal, ebony and pearl effects.

Cast polyester alternatives are used for furniture, musical instruments, pens, picture frames, buttons and jewellery.

RODS stocked in 1.5 metre lengths 15mm diameter to 75 mm diameter; and larger diameters are available to order. Limited stocks in metre lengths; 89mm, 100mm and 125mm.

RECTANGULAR BAR stocked in 1.5 metre lengths in sizes 25mm x 35mm, 33mm x 43mm, 35mm x 75mm and 45mm x 75mm.

SHEETS are stocked in Grained Ivory and Bone in 3mm thickness. White and Oyster Mother of Pearl, and Dark Abalone in 3.5 mm thickness. Sheet size 56cm x 45cm approx. Tortoiseshell Acetate sheet stocked in 0.5mm thickness for inlay work. Sheet size 137cm x 66cm.

Also supplied - HORN AND TORTOISESHELL ALTERNATIVE in rod, bar and sheet.

NEW EBONY ALTERNATIVE (BLACK)

Cast Polyester now stocked in Rod, Sheet and Bar. Rods stocked in 20mm diameter through to 75mm diameter. Other thicknesses made to order.

NEW GRAINED EBONY ALTERNATIVE SHEETS STOCKED IN 3MM.

Units 3 & 3A, Hambrook Business Centre, Cheesmans Lane, Hambrook, Chichester, West Sussex PO18 8XP

Tel: +44 (0)1243-574444 Fax: +44 (0)1243-574313

PRICES AND INFORMATION ON REQUEST

If samples required send £3 in postage stamps or Postal Orders. (UK only).

Sole suppliers of IVORY ALTERNATIVE®

(colour ref. 849/TM)

Ivory Alternative is used by many experienced turners who look beyond using wood as they have now found the perfect alternative. Among our users are Bill Jones, Stuart Mortimer, Sharp & Co. (bagpipe makers), Glasgow and Ian Wilkie.



Turned from Ivory Alternative, Tortoise and Horn Alternative Rod

Ornamentally turned from Ivory Alternative Rod by Stuart Mortimer



Handles and Knobs made from Horn Alternative for a 1930s Rolls Royce Phantom 2 by Iain McClaren



Keys from Ivory Alternative 3mm sheet by P & S Specialist Joinery Co. Ltd., Suffolk



Turned from Ivory Alternative Bar



Using Mother of Pearl Alternative & Grained Ivory Alternative Sheet



Our amazing variety of alternatives to ivory, and other natural products

POOLEWOOD MACHINERY

SAFETY IN THE WORKSHOP, INDUSTRIAL OR HOME USUALLY MEANS THAT MACHINES ARE CORRECTLY GUARDED, WOODCHIPS ARE EXTRACTED, FACE MASK AND EYE PROTECTION IS USED. THESE ACTIONS TAKE NO ACCOUNT OF THE 'INVISIBLE KILLER' DUST. THIS KILLER IS THE VERY FINE WOOD OR OTHER FIBROUS DUST DOWN TO 1 MICRON IN SIZE THAT IS CONSTANTLY AMBIENT IN THE WORKSHOP AIR

Microclene MC1000 (COMPACT)

MC10 £190.00 WITH 1 FREE SPARE FILTER

MCFB £4.00 FIXING BRACKET

MCET12 £7.99 12" EXTENSION TUBE

MCET20 £9.99 20" EXTENSION TUBE



Microclene MC1200

MC1200 £205.00

WITH 1 FREE SPARE FILTER

MCFB £4.00 FIXING BRACKET

MC1200F £4.99 SPARE FILTER



Microclene MC400

MC1000 £190.00 WITH 1 FREE SPARE FILTER

MCFB £4.00 FIXING BRACKET

MCET12 £7.99 12" EXTENSION TUBE

MCET20 £9.99 20" EXTENSION TUBE

Microclene MC500

MC500 £206.99 WITH 1 FREE SPARE FILTER

A Twin Motor Ambient Air Filter MC800

MC800 £250.00 (inc free filter)

The MEJIX Copy Lathe is a very popular lathe with both the amateur and professional turner, this is due to its robust design enabling the user to accurately reproduce spindles, table legs and faceplate work to the highest standards.

Supplied c/w. 1hp motor, carrying centre, 6" faceplate, centre steady, set of 3 templates, toolrest, silent block legstand with stabilizers, safety switch and 4 speed transmission.

Mejix Copy Lathe



SPECIAL OFFER VALID UNTIL END FEBRUARY 2000 £590.00

CARRIAGE NOW FREE OF CHARGE WITH ANY MICROCLENE ORDER

Poolewood Mejix Starter Lathe

Supplied with a 1 Year Guarantee. 10% Discount on any accessories ordered with this machine.

Mejix TB900



SPECIAL OFFER VALID UNTIL END FEBRUARY 2000 £195.00

Poolewood Machinery, Pett Farm, Stockbury Valley, Nr. Sittingbourne, Kent, ME9 7RJ
Tel:-01622-884-651 Fax:-01622-884-520 e:mail:-info@poolewood.co.uk

BOOK reviews



Furniture-making projects

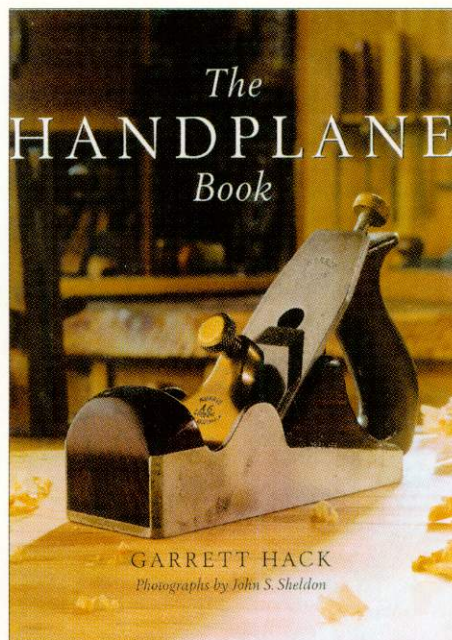
The best from F&C

GMC Publications, 1999
£12.50, Softback
119pp, Colour photos,
illustrations
ISBN 1 86108 140 5

DO YOU ASPIRE to excellence? Then take a look at the projects in this book, taken from the pages of *Furniture & Cabinetmaking*. Those who regularly subscribe to *F&C* will be delighted with this collection of 22 projects in an easy-to-use format. If you've missed a couple of issues, or would just like the convenience and permanence of a book, then this will be a treat, with amazing workmanship captured in photography, accompanied by exploded diagrams and measured working drawings to help you create your own modern masterpiece.

The projects are as varied and individual as the makers themselves, showing influences from all historical periods and styles. While projects vary in complexity of construction and in their demands upon your toolchest, each one is ambitious in approach and indelibly unique. Projects include: an oak mule chest, an Arts and Crafts chest and writing desk, a Japanese cupboard, a solid and veneered oak bed, and many more tables, cupboards and chests. Relish this feast of 20th century craftsmanship and inventiveness, and be inspired!

Christine Richardson



The Handplane Book

By Garrett Hack

The Taunton Press, 1997
£29.95, Hardback
265pp, Colour photos,
line drawings
ISBN 1 56158 155 0

GARRETT HACK is a man of many parts – farmer, professional furniture maker, and tool collector. This is an exceptional book that will appeal to all who use planes, even if their workshop is heavily mechanised! But this is no dry-as-dust volume aimed at the tool collector or tool historian, instead it is full of practical advice on selecting, buying, tuning and using many different types of planes, including scrapers.

Apart from defining a plane, Garrett Hack devotes the first chapters to the history of planes, plane mechanics, and tuning a plane. An important chapter on 'how to plane' is followed by those dealing with bench planes, planes for joint-making, surfacing and scraping, speciality planes, contemporary plane-makers, and lastly, excellent advice on buying and restoring older planes.

Although American Stanley and other plane-makers feature heavily, earlier English and Scottish examples are included – Hack personally uses the much-admired Norris planes for his furniture-making.

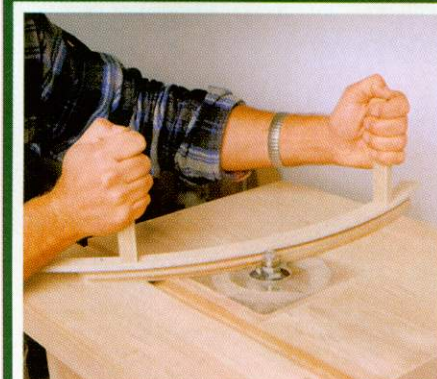
A sumptuously illustrated book, that provides definitive information on all aspects of the plane and its use. A classic in its field.

John Haywood

The Router Table Book

ERNIE CONOVER

A Fine Woodworking Book



The Router Table Book

by Ernie Conover

The Taunton Press, 1994
£14.95, Softback
118pp, B&W photos, illustrations
ISBN 1 56158 084 8

THE FIRST OBSERVATIONS in this book involve what type of router is suitable to invert in a table. Again, the US options featured aren't much use, but all the tips are. Ernie explains the function of insert plates and fences, with information on how to make them, and the methods used to construct a sturdy platform for router inversion. With this knowledge you can take the first steps towards building your own table.

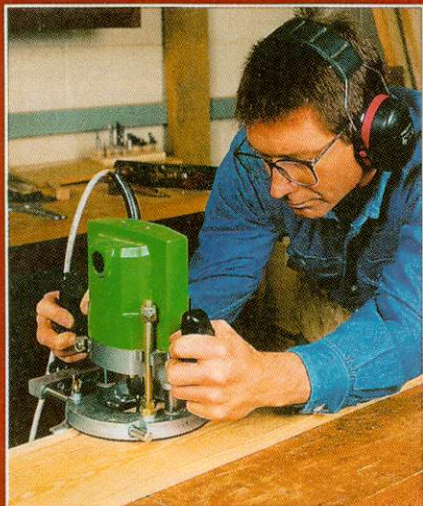
Ernie includes plenty of workshop safety tips, among them the use of safety guards and feather boards, both of which are extremely handy. Using a router table also opens up a whole new range of cutters that can be used. Many of these cutters are featured along with the techniques and jigs used to enhance their operation. All of this information is helped along by the clear illustrations.

Altogether, this is a book packed with useful facts, and you could do much worse than read this prior to buying or making a router table.

Alan Goodsell

■ All books may be ordered from our mail order department – add p&p: £2.50 UK, £3.50 overseas plus £1.50 per additional book. **Contact:** GMC Publications Ltd, 166 High St., Lewes, East Sussex BN7 1XU tel 01273 488005, fax 01273 478606

Router Joinery with Gary Rogowski



**A Fine Woodworking
Video Workshop**

Router Joinery with Gary Rogowski

The Taunton Press, 1996
£16.95 VHS, 75 minutes
ISBN 1 56158 145 3

JOINERY IS Americanese for making joints, not making window frames and so on, as it is in the UK, and this video sets out to teach viewers how to use their routers to make rebated, housed, halved, dove-tailed and mortice and tenon joints in furniture construction. That's a lot of joints, more than enough to really get you going.

I would be happier if it were called 'Router Joinery for Beginners', as it does cover a lot of basic ground – the first 20 minutes or so are spent cutting a simple rebate. Still, if you are new to routing this isn't a bad introduction, apart from the usual transatlantic disregard for safety – Rogowski wears ear defenders but no dust protection, and his table saw's crown guard and riving knife are missing. Don't make the same mistakes, even if it looks safe on the video.

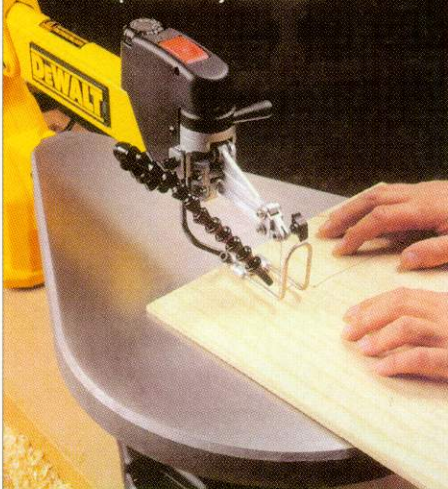
At 75 minutes this video is almost as long as a feature film – good value, but a car chase or two would have livened it up a bit – but if you're just starting out this would be a handy reference tool.

Paul Richardson

The Scroll Saw

A BEGINNER'S GUIDE

presented by John Burke



Produced by The Guild of Master Craftsmen Publications
in association with **DEWALT**

The Scroll Saw A Beginner's Guide

Presented by John Burke

GMC Publications, 1998
£16.95 VHS, 60 minutes
ISBN 1 86108 073 5

THE USER-FRIENDLINESS of the scrollsaw makes it immediately accessible to those who are not necessarily woodworkers, and who might find other machines, particularly the larger ones, a little daunting. It has the added attraction of not taking up too much space in the workshop, and can enable you to finish a project speedily.

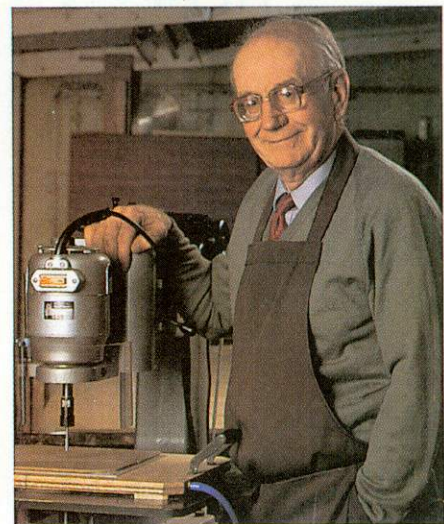
Also of use to the professional, the scrollsaw can be used for some types of marquetry – in fact the range of things it can help you accomplish is really only limited by your imagination and experience. John Burke guides beginners from setting up and choosing blades, through to making a variety of interesting projects.

The photography is good throughout, and the close-up shots are particularly good in demonstrating blade-break avoidance. The five projects start from simply cutting out an outline of a plywood letter of the alphabet and go on to making a small box.

This video achieves exactly what it sets out to do – explaining to the novice, with the help of some examples, the basic techniques to be adopted and safety to be observed – with simplicity and clarity.

Colin Eden-Eadon

2 ADVANCED ROUTING BY ROY SUTTON



Advanced Routing by Roy Sutton

GMC Publications, 1988
£14.95 VHS, 45 minutes
ISBN 1 86108 002 6

THIS IS the second in Roy's series, and deals with techniques for more ambitious router-users. He begins by demonstrating how productive large overhead routers used with jigs can be. He then moves on to show how to make kitchen doors using a large 1850W router inverted in a stand. Then, with the router hand-held and with the aid of a purpose-made jig, he easily forms normally difficult mason mitre joints on a worktop. The beauty of the video format is that you can play these tutorials back again and again until you've perfected the techniques.

Using Roy's own design for a home-built router table and an arbor that takes various cutters, tongue and groove boarding is machined. Roy goes on to show how easily staircases can be made using another purpose-made jig and a hand-held router.

Finally, using a pantograph jig, letters are machined in timber for sign-making. Although the video is effectively a showcase for Trend products, enough information is given on each subject to whet the appetite.

Alan Goodsell

**SUBSCRIBE
today and**

SAVE *up to*

The Router

£17.70!

**NEVER MISS AN ISSUE
OF YOUR FAVOURITE
MAGAZINE!**

Now every month, the **Router** brings you more tests, information, projects and advice than ever before!

20% off *two-year subscriptions*
10% OFF *one-year subscriptions*
FREE! – *Delivery to your door*
Satisfaction – GUARANTEED

if you are not 100% happy, let us know and we will refund the balance of your subscription

JUST FILL IN THE COUPON BELOW TO START ENJOYING THE BENEFITS OF SUBSCRIBING TO THE **Router** MAGAZINE

	UK £	US \$	OVERSEAS £
ONE YEAR • 12 ISSUES	35.40 31.85	72.45 66.10	44.25 39.80
TWO YEARS • 24 ISSUES	70.80 56.60	144.90 117.50	88.50 70.80

Prices shown are correct at March 1999, but may be subject to change

Please send my copies of the **Router** to:

Mr/Mrs/Ms

Address

Postcode Tel

I wish to start my subscription with the month/issue (please complete)

CREDIT CARD HOTLINE TEL: 01273 488005 OR FAX 01273 478606

I enclose a cheque to the total value of made payable to GMC PUBLICATIONS LTD.

£/\$

OR Please debit my credit card* to the value of

£/\$

*please indicate



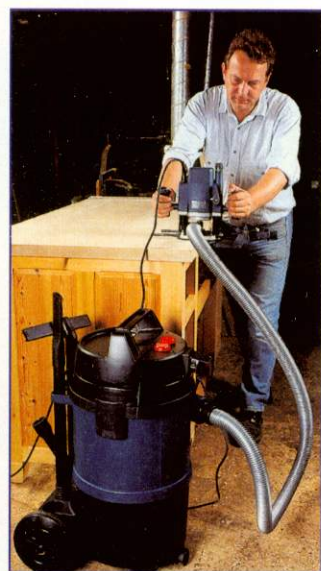
Account No.

Expiry Date

Signature

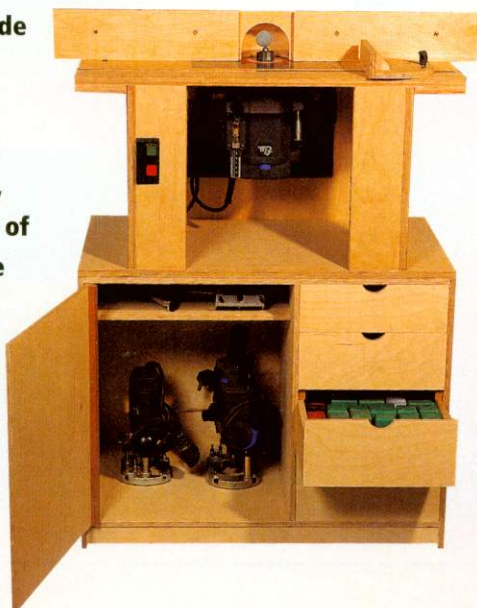
Guild of Master Craftsman Publications will ensure that you are kept up-to-date on other products which will be of interest to you. If you would prefer not to be informed of future offers, please write to the Marketing Department at the address shown below.

Please post your order to: Guild of Master Craftsman Publications, Castle Place, 166 High Street, Lewes, East Sussex BN7 1XU England.



Every issue is packed full of tips for making useful and attractive items for the home – and workshop!

Get the inside story on all the latest routers and router stuff, plus details of how to save money by making jigs and templates yourself!



Router specifications

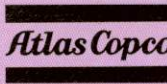
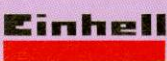
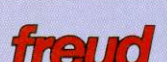
Brand name	Model	Wattage	6mm collet	¹ / ₄ in collet	8mm collet	³ / ₈ in collet	12mm collet	¹ / ₂ in collet
AEG	OFE 710	710W	No	Yes	No	No	No	No
Atlas Copco	OFSE 1000	1000W	No	Yes	No	No	No	No
Atlas Copco	OFSE 2000	2000W	No	Yes	Yes	No	No	Yes
Black & Decker	KW 780	600W	Yes	Yes	Yes	No	No	No
Black & Decker	KW 780E	600W	Yes	Yes	Yes	Yes	No	No
Bosch	POF 500 A	500W	Option	Yes	Option	No	No	No
Bosch	POF 600 ACE	600W	Option	Yes	Option	No	No	No
Bosch	900 ACE	900W	Option	Yes	Option	No	No	No
Bosch	GOF 1300 ACE	1300W	Option	Yes	Option	Option	Option	Yes
Bosch	GOF 1600 A	1600W	No	Yes	Option	Option	Option	Yes
Bosch	GOF 1700 ACE	1700W	No	Yes	Option	Option	Option	Yes
DeWalt	DW613	800W	Option	Yes	Option	No	No	No
DeWalt	DW620	900W	Option	Yes	Option	No	No	No
DeWalt	DW621	1100W	Option	Option	No	No	No	No
DeWalt	DW625 EK	1850W	Option	Yes	Option	No	Option	Yes
DeWalt	DW670	600W	Option	Yes	Option	No	No	No
Einhell	EOF 850SP	850W	Option	Option	Yes	No	No	No
Elu	MOF96E	900W	Option	Yes	Option	No	No	No
Elu	OF97	900W	Option	Yes	Option	No	No	No
Elu	OF97EK	1100W	Option	Yes	Option	No	No	No
Elu**	MOF177	1600W	Option	Yes	Option	No	Option	Yes
Elu	MOF177EK	1850W	Option	Yes	Option	No	Option	Yes
Flex Porter Cable	OFT3 12VV	1710W	Option	Option	Option	Option	Option	Yes
Festo	OF 1000 Plus	900W	Option	No	Yes	Option	No	No
Festo	OF 1000 EB Plus	900W	Option	Yes	Yes	Option	No	No
Festo	OF 2000 Plus	1600W	Option	Option	Yes	Option	Yes	Option
Festo	OF 2000 E Plus	1800W	Option	Option	Yes	Option	Yes	Option
Freud	FT2000E	1800W	No	Yes	No	Yes	Yes	No
Hitachi	ZK 2008	550W	No	Yes	No	No	No	No
Hitachi	M8	800W	No	Yes	No	No	No	No
Hitachi	M8V	800W	No	Yes	No	No	No	No
Hitachi	M12SA	1600W	No	Option	No	Option	No	Yes
Hitachi	M12V	1850W	No	Yes	No	Option	No	Yes
Holz Her	2355	800W	No	Yes	No	No	No	No
Holz Her	2356	1010W	No	Yes	No	No	No	No
Kress	FM6955	550W	Yes	Yes	Yes	No	No	No
Mafell	LO 50E	900W	Option	Yes	Option	No	No	No
Mafell	LO 65E	1800W	Option	Option	Option	Option	Option	Yes
Makita	3620	860W	Option	Yes	Option	Yes	Option	Option
Makita	3621C	1850W	Option	Yes	Option	Yes	Option	Yes
Makita	3612	1650W	Option	Yes	Option	Yes	Option	Yes
Metabo	OFE 1229 Signal	1200W	Option	Yes	Option	No	No	No
Metabo	OFE 1812	1800W	Option	Option	Option	Option	Option	Yes
Power Devil	PDW5027	850W	No	Yes	Yes	No	No	No
Perles	OF 808	850W	No	Yes	Yes	No	No	No
Ryobi	RE 120	570W	No	Yes	No	No	No	No
Ryobi	RE155K	800W	No	Yes	Yes	No	No	No
Ryobi	R 600N	2050W	Yes	Yes	Yes	Yes	No	Yes
Ryobi	RE601	2050W	Yes	Yes	Yes	Yes	No	Yes
Skil	1875UI	1400W	No	Yes	No	No	No	Yes
Sparky	X52E	500W	Yes	Yes	Yes	No	No	No
Trend	T5E	850W	No	Yes	Yes	No	No	No
Trend	T9E	1800W	Option	Yes	Option	Option	Option	Yes
Virutex	FR77C	850W	Option	Option	Yes	No	No	No
Virutex	FR78C	850W	Option	Option	Yes	No	No	No
Virutex	FR66F	1100W	Option	Option	Yes	No	No	No
Woodcut	WTC-1800E	1800W	Option	Option	Option	Option	Option	Yes

Information is correct at time of going to press as supplied by manufacturers. If any new models become available please let us know. Prices are all manufacturers' list prices – shopping around will help to find discounts.

Key: TR# = The Router issue tested; NYT = not yet tested by The Router; ** = tested as DeWalt 621.

Max. plunge	RPM	Soft start	Voltage	Spindle lock	Dust extraction	Weight	Test	Price
50mm (2in)	10,000–30,000	Yes	240V	Yes	No	2.9kg	TR10	£234
50mm (2in)	8,000–25,000	Yes	240V	Yes	No	2.7kg	NYT	£355
75mm (3in)	8,000–24,000	Yes	240V	Yes	Yes	5.2kg	TR3	£478
55mm (2¼in)	30,000	No	240V	Yes	Yes	3.0kg	NYT	£135
55mm (2¼in)	8,000–30,000	Yes	240V	Yes	Yes	3.0kg	TR10	£153
52mm (2in)	27,000	No	240V	No	Yes	2.4kg	NYT	£131
52mm (2in)	12,000–27,000	Yes	240V	No	Yes	2.0kg	TR10	£184
50mm (2in)	12,000–26,500	Yes	240/110V	Yes	Yes	3.5kg	TR1	£341
60mm (2½in)	12,000–24,000	Yes	240V	Yes	Yes	4.8kg	TR9	£401
75mm (3in)	25,000	No	240/110V	Yes	Yes	5.7kg	TR2	£398
75mm (3in)	8,000–23,000	Yes	240/110V	Yes	Yes	5.8kg	TR7	£488
35mm (1½in)	27,000	No	240/110V	Yes	Yes	2.8kg	TR1	£233
55mm (2¼in)	24,000	No	240/110V	Yes	Yes	3.1kg	NYT	£282
55mm (2¼in)	8,000–24,000	Yes	240/110V	Yes	Yes	3.1kg	TR1	£376
64mm (2½in)	24,000	Yes	240/110V	Yes	Yes	5.1kg	TR3	£562
22mm (1¼in)	30,000	No	240/110V	Yes	Yes	1.9kg	NYT	£233
50mm (2in)	24,000	No	240V	Yes	Yes	n/a	TR1	£165
55mm (2¼in)	8,000–24,000	Yes	240/110V	Yes	Yes	2.9kg	NYT	£329
55mm (2¼in)	24,000	No	240/110V	Yes	Yes	3.3kg	NYT	£282
55mm (2¼in)	8,000–24,000	Yes	240/110V	Yes	Yes	3.3kg	TR1**	£364
65mm (2½in)	20,000	No	240/110V	Yes	No	5.1kg	NYT	£493
65mm (2½in)	20,000	No	240/110V	Yes	Yes	5.1kg	TR1	£535
73mm (2½in)	10,000–21,000	Yes	240V	No	Yes	7.8kg	TR5	£685
55mm (2¼in)	10,000–22,000	Yes	240/110V	Yes	Yes	2.7kg	NYT	£321
55mm (2¼in)	10,000–22,000	Yes	240/110V	Yes	Yes	2.7kg	TR11	£321
65mm (2½in)	25,500	Yes	240V	Yes	Yes	5.1kg	NYT	£445
65mm (2½in)	12,000–22,000	Yes	240V	Yes	Yes	5.1kg	TR3	£525
70mm (2¾in)	8,000–22,000	Yes	240V	Yes	Yes	5.9kg	TR2	£341
52mm (2in)	27,000	No	240V	No	No	2.3kg	TR10	£143
50mm (2in)	25,000	No	240/110V	Yes	No	2.7kg	TR1	£264
50mm (2in)	10,000–25,000	No	240/110V	Yes	No	2.8kg	NYT	£328
62mm (2½in)	22,000	No	240/110V	Yes	No	5.2kg	TR2	£339
62mm (2½in)	8,000–20,000	Yes	240/110V	Yes	No	5.3kg	TR3	£469
50mm (2in)	25,000	No	240/110V	Yes	No	2.7kg	NYT	£235
50mm (2in)	8,000–25,000	Yes	240/110V	Yes	No	2.7kg	NYT	£310
44mm (1¾in)	8,000–25,000	Yes	240/110V	Yes	No	2.7kg	NYT	£310
50mm (2in)	10,000–22,000	Yes	240/110V	Yes	Yes	1.6kg	TR10	£199
65mm (2½in)	8,000–20,000	Yes	240V	Yes	Yes	5.5kg	TR4	£395
35mm (1½in)	24,000	No	240V	No	No	2.4kg	TR10	£220
60mm (2½in)	9,000–23,000	Yes	240/110V	Yes	Yes	6.0kg	NYT	£432
60mm (2½in)	22,000	No	240/110V	Yes	Yes	5.8kg	NYT	£398
50mm (2in)	5,000–25,500	No	240/110V	Yes	Yes	3.4kg	TR1	£428
80mm (3½)	8,000–22,000	Yes	240/110V	Yes	Yes	5.1kg	TR3	£570
43mm (1½in)	9,000–28,000	Yes	240V	Yes	Yes	3.7kg	TR16	£50
50mm (2in)	25,000	No	240V	No	No	n/a	NYT	£185
55mm (2¼in)	17,000–28,000	No	240V	Yes	Yes	2.2kg	TR10	£199
50mm (2in)	16,000–27,000	No	240/110V	Yes	Yes	3.0kg	TR1	£298
60mm (2½in)	23,000	No	240/110V	Yes	Yes	6.2kg	NYT	£398
60mm (2½in)	10,000–23,000	Yes	240/110V	Yes	Yes	6.2kg	TR2	£469
63.5mm (2½in)	8,000–22,000	Yes	240V	No	Yes	4.5kg	TR2	£316
52mm (2in)	8,000–33,000	Yes	240V	No	Yes	2.2kg	TR10	£105
50mm (2in)	8,000–24,000	Yes	240V	Yes	Yes	3.1kg	TR7	£217
75mm (3in)	8,000–22,000	Yes	240/110V	Yes	Yes	5.2kg	TR9	£351
50mm (2in)	24,000	No	240/110V	Yes	Yes	3.1kg	NYT	£182
50mm (2in)	8,000–24,000	Yes	240V	Yes	Yes	2.9kg	TR15	£190
60mm (2½in)	23,000	No	240V	Yes	Yes	3.8kg	TR15	£175
80mm (3½in)	8,000–24,000	Yes	240V	Yes	Yes	5.1kg	TR6	£259

Router contacts

Product	Company	Address	Tel	Fax
 	Atlas Copco Tools Ltd	PO Box 79, Swallowdale Lane, Hemel Hempstead, Herts HP2 7HA	01442 261201	01442 240596
 	Atlas Copco Tools Ltd	PO Box 79, Swallowdale Lane, Hemel Hempstead, Herts HP2 7HA	01442 261201	01442 240596
   	Axminster Power Tool Centre	Chard Street, Axminster, Devon EX13 5DZ	01297 33656	01297 35242
  	Black & Decker Power Tools Ltd	210 Bath Road, Slough, Berkshire SL1 1YD	01753 511234	01753 500843
   	Robert Bosch Ltd	PO Box 98, Broadwater Park, North Orbital Road, Denham, Uxbridge, Middlesex UB9 5HT	01895 834466	01895 838388
  	CMT Tools (UK)	8 Wainwright Road, Bexhill, E. Sussex TN39 3UR	01424 214233	01424 730674
  	DeWalt Power Tools Ltd	210 Bath Road, Slough, Berkshire SL1 3YD	01753 567055	01753 521312
 	Blades	271 Botley Road, Burridge, Southampton, SO31 1BS	01489 885221	01489 885221
 	Hamilton Power products	Unit 12, Grangeway Business Pk, Whitehall Road, Colchester, Essex CO2 8HF	01206 798600	01206 798799
   	Minden Industrial Ltd	Saxham Business Park, Saxham, Bury St Edmunds, Suffolk IP28 6DX	01284 760791	01284 702156
  	Freud Tooling UK Ltd	Unit 3 Emmanuel Trading Estate, Springwell Road, Leeds LS12 1AT	0113 245 3737	0113 243 8883
   	Hitachi Power Tools	Precedent Drive, Rooksley, Milton Keynes, Buckinghamshire MK13 8PJ	01908 660663	01908 232868
  	Cheetham Tool Group distributor	Rhosddu Industrial Estate, Wrexham LL11 4YL	01978 291771	01978 290068
  	Jesada Tools UK	Weycroft Avenue, Millwey Rise Ind. Est., Axminster, Devon EX13 5HU	01297 33656	01297 35242

Key:  cutters  accessories  routers

Product	Company	Address	Tel	Fax
 	BMJ Power	305 Dewsbury Road, Leeds, West Yorkshire LS11 5LJ	0113 2714019	0113 2778341
  	KWO Tools (UK) Ltd.	4 Strawberry Vale, Vale Road, Tonbridge, Kent TN9 1SJ	01732 364444	01732 351144
 	NMA Agencies	34 Elmfield Road, Birkby, Huddersfield, West Yorkshire HD2 2XH	01484 531446	01484 432906
   	Makita (UK) Ltd	Mitchigan Drive, Tongwell, Milton Keynes MK15 8JD	01908 211678	01908 211400
  	Draper Tools Ltd	Hursley Road, Chandlers Ford, Eastleigh, Hampshire SO53 1YF	01703 266355	01703 260784
  	Cheetham Tool Group distributor	Rhosddu Industrial Estate, Wrexham LL11 4YL	01978 291771	01978 290068
  	Ryobi Power Equipment (UK) Ltd	Pavillion 1, Olympus Park Business Centre, Quedgeley, Glos GL2 6NF	01452 724777	01452 727400
   	Screwfix Direct	Screwfix Direct, Yeovil, BA22 8BF	0500 414141	0800 056 2256
 	Skil Power Tools	PO Box 98, Broadwater Park, North Orbital Road, Denham, Uxbridge, Middlesex UB9 5HT	01895 838743	01895 838802
  	M & M Tools (UK)	8 Wainwright Road, Bexhill, E. Sussex, TN39 3UR	01424 216897	01424 730674
  	Titman Tip Tools Ltd	Kennedy Way, Valley Road, Clacton-on-Sea, Essex CO15 4AB	01255 220123	01255 221422
   	Trend Machinery & Cutting Tools Ltd	Freepost, Penfold Works, Imperial Way, Watford WD2 4WD	01923 249911	01923 236879
  	Ney Ltd	Falkland Close, Charter Avenue Industrial Estate, Tile Hill, Coventry CV4 8UA	01203 420300	01203 420360
  	Wealden Tool Company	31 Branbridges Industrial Estate, East Peckham, Kent TN12 5HF	0800 3284183	07000 564636
   	The Woodcut Trading Company	8 Wainwright Road, Bexhill, E. Sussex TN39 3UR	0800 378027	01424 730674



J. CRISPIN & SONS

VENEER MERCHANTS & IMPORTERS

ESTABLISHED 1900

We are a leading specialist in wood veneers from around the world.

We cater from small repairs to new projects.

Our stock consists of at least 100 different veneers.

Plus Marquetries, Bandings, Lines, Books, Glues & other ancillary items.

Call in and see our range or phone for our worldwide mail order service.

Send or phone for a **FREE** brochure

92-96 CURTAIN ROAD, LONDON EC2A 3AA

PHONE 0171 739 4857 FAX 0171 613 2047

or see us on the web at www.j-crispin.mcm.com/index.html



LIMEHOUSE TIMBER LTD

HARDWOODS - ENGLISH, TEMPERATE & EXOTIC
WIDE RANGE OF SPECIES

Also: Veneers, Inlays, Carving & Turning Blanks,
Finishing Blanks, Machining to Cutting list.

Tel: 01702 469292 Fax: 01702 600544

Unit 18, Robert Leonard Ind. Est., Stock Road,
Southend-on-Sea, Essex SS2 5QD

**PLEASE REMEMBER
TO MENTION
THE ROUTER WHEN
REPLYING TO THESE
ADVERTS**

TYLER HARDWOODS

ENGLISH &
IMPORTED HARDWOODS

Turning Blanks,

Squares & Boards

Burrs & Specials

Air Dried & Kiln Dried

Cut to Customers Requirements

TEL: BERKSHIRE 01628 825232

FAX: BERKSHIRE 01628 826879

TEL: WILTSHIRE 01672 871300

Marymere Farm, Salisbury Road,

Near Hungerford,

Wilts SN8 3NE



TREGOTHNAN SAWMILLS

TRURO, CORNWALL

TR2 4AN

English Hardwoods, blanks, squares and planks

at competitive prices, including

Nutmeg, Rhododendron, Elm and Spalted Beech.

JUST IN YEOW

Large selection of branches, planks and blanks
at reasonable prices

Why not join our free Woodworkers' Club and
get extra discounts and newsletters.

Open Monday - Friday - 8.30am - 4.30pm

(Signposted from Tresillian Church on the A390 outside Truro).

Tel. 01872 520584 for Mail Order brochure



INTERESTING TIMBERS

**EXTENSIVE RANGE OF ENGLISH
GROWN HARDWOOD TIMBERS**

Air or kiln dried. Quarter Sawn Oak usually available.

Full machining service available. Wide boards in many species.

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 (8), Bath BA3 4SP

Tel 01761 241333

S.L. Hardwoods

QUALITY TIMBER STOCKIST

390 Sydenham Road, Croydon, CRO 2EA

Tel: 0800 731 6345 Fax: 0208 683 0404

Cutting
Lists
Prepared

Sawn &
P.A.R.

Sheet
Materials

Turning &
Carving
Blanks

Crown
Tools

Veneers

Books &
Videos



Sacks of
Off-cuts
£38.00

Pallets of
Off-cuts
from £100

**NEW COLOUR
CATALOGUE
NOW OUT!**

downloaded from
the web-site

Microclene Filters
now in stock!

Oak, Ash, Mahogany, Maple,
Iroko, Wenge, Sheoak,
Walnut Cherry, Beech,
Tulipwood & many more!



MAIL ORDER



NATIONAL
DELIVERY



FACTORY
SHOP

Derby Woodturning Centre

Microclene ambient air filters an excellent product that cleans the very
fine dust ever present in your workshop air which is a potential killer.

MC400 £136.00

MC500 £199.50

MC 800 £255.00

MC 1000 £195.50

MC 1200 £212.00

Speed controller for MC400 £29.99

MC1000 extension tubes 12" £7.99, 20" £9.99

**Plus FREE
spare filter
worth £5**



Next day Delivery

£6.00

UK Mainland only

Spare filters for all
machines

Timber

We have extensive stocks
of English hardwoods
suitable for turning carving
etc & a range of exotic
species all of which are
very good prices at the side
of some our larger
competitors.

(phone for your
requirements)

Special Offer

If you buy £55 of bowl
blanks or squares we will
deliver next day
FREE OF CHARGE for
parcels up to 25kg in
weight - UK mainland only



DRAPER D16 DRILL STAND
£199 + FREE AWM/WMA
Wood Morticing Attachment

WORTH £78

16 ML CHUCK 16 SPEEDS
FREE UK MAINLAND DELIVERY



**DRAPER WTL90
Wood Lathe -
A Good Starter Lathe**
£229 inc.
FREE Draper Tailstock
1/2" chuck 8 arbor
worth £29.99
FREE UK Mainland delivery

Special Offer

Buy a WTL90 Lathe and a set of 6 turning
tools of which we have an extensive range
of Hamlet & Crown Tools from £9.99 and
we will give you **FREE £25** worth of
timber of your choice

For warm friendly service & advice phone Nigel Griffin on Derby

01332 775827

5-7 Wordsworth Avenue, Sinfen, Derby DE24 9HQ

TEL: 01332 775827 FAX: 01332 772481

Cheque with cheque card number on reverse



COURSES

ROY SUTTON'S ROUTING COURSES

COME ALONG AND ENJOY THE BENEFITS OF YEARS OF
ROUTING AND WOODWORKING EXPERIENCE
THREE COURSES AVAILABLE

- BASIC ROUTING COURSE for the absolute beginner.
- ADVANCED ROUTING COURSE for those wishing to improve their skill and further their knowledge of routing.
- JIG MAKING COURSE for the routing enthusiast.

Free video's appropriate to each subject with every course:

For details apply to Roy Sutton,

14 St George's Ave, Herne Bay, Kent CT6 8JU

Tel/Fax: 01227 372500

Evenings/Weekends Tel/Fax: 01227 272136

NEW ROUTER?

Or thinking of getting one?

Take the plunge with a one or two
day beginners course.
One student only.

Follow-up courses in specific topics
available including dovetailing and
finger jointing, panelled door making
and miniature work.

The WoodRat, Leigh, Incra
and most other commercial jigs
are available for tuition.

Totally independent courses
now in seventh year

Details from: Ron Fox

2 Millfield, Southwater, Horsham,

West Sussex RH13 7HS

Tel: 01403 730602

Furniture Making Courses —with Michael Scott—

Parnham graduate offers personal
tuition in all aspects of designing
and making furniture.

2 students only.

Courses from weekend
up to one year.

Accommodation available.

Details:

POPES, SHILLINGFORD,
NR. BAMPTON, TIVERTON,
DEVON EX16 9BP.

TELEPHONE: 01398 331999

Woodrat, Router and Woodturning Courses

Basic to advanced.

100% Hands-on, maximum of
2 people per course

Contact: Mike Humphrey,

Woodcraft Training, 50 West Street,
Isleham, nr Ely, Cambridgeshire CB7 5SB.

01638 780978 or

polly_woodworking@msn.com



Learn how to Design, Make & Restore Furniture

The Thomas Chippendale School of Furniture is an independent school dedicated to the design, making and conservation of furniture. The aim of the school is to develop craftsmen and women with expertise and professionalism, to create experts who have an immense practical knowledge. Our unique 30 week course is designed to ensure that students have the skills and knowledge to establish their own business or to secure positions in professional workshops or the arts and museums.

From fine classic pieces to bespoke commissions, students on our intensive course gain hands-on experience in a stimulating workshop environment, situated in the heart of the beautiful Scottish countryside, yet near to the vibrant city of Edinburgh.

Success in the world of furniture also requires strong business skills. The Thomas Chippendale School of Furniture will ensure that you gain that vital commercial knowledge and understanding.

For information on our course commencing in October 2000, please contact the Principal, leaving your name, address and telephone number:

The Thomas Chippendale School of Furniture
Gifford, East Lothian EH41 4JA Scotland
Tel: 01620 810680 Fax: 01620 810701

JOE GREENER'S WOODWORKING CENTRE

you're right on
course
to becoming
an expert

WHY CHOOSE JOE GREENER?

Stockists of a wide range
of high quality
woodworking products.

Demonstration facility
try before you buy.

Personal service
guaranteed.

Regular demonstration
days and shows

Purpose built training
facility offering
woodworking courses.

Full in house test and
repair of most makes of
power tool.

find us at:
VALLEY ☎01225
STREET 382038
NORTH,
DARLINGTON
Co. DURHAM



This is a truly enjoyable way for
the keen woodworker to 'get
away from it all' and spend two
days concentrating on improving
woodworking skills in this
modern venue.

- ▶ Courses are run over two days
- ▶ Designed for those that are new to routing and woodturning
- ▶ A maximum of three students per course ensures personal attention
- ▶ All tools, equipment and materials are provided
- ▶ The courses are project based - take home what you make
- ▶ All refreshments and lunch provided.

**VISIT US
ONLINE AT**
www.joegreeners.co.uk



*Ebony carving copied
by a Dupli - Carver*

Rod Naylor the supplier of Power Tools for

**CARVING
COPY CARVING
& SHARPENING**

Free catalogue from:-

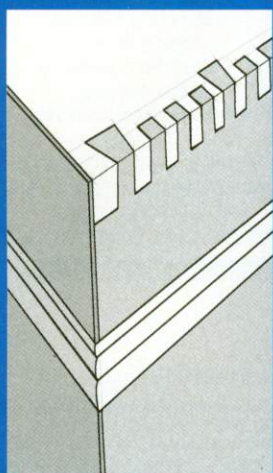
Rod Naylor, 208 Devizes Rd., Hilberton, Trowbridge
Wilts. BA14 7QP

Phone/Fax: 01225 754497

International +441225 754497

COURSES

FURNITURE MAKING AND DESIGN



A BTEC National Diploma Course in fine furniture making with influences ranging from the Cotswold School to Contemporary.

The course is based at the Cheltenham site of Gloscat which is in the centre of the Cotswolds. The course will provide you with the skills to project you into the world of the bespoke furniture maker.

For details contact
Mike or Peter on **01242 532093**.

A centre of excellence for Further Education & Training

Gloscat

GLOUCESTERSHIRE COLLEGE
OF ARTS & TECHNOLOGY

Woodturning courses in Devon with

Tobias Kaye RPT



*"Your sensitive tuition gave me confidence.
Skills came quickly because I felt at ease.
I now feel confident about sharpening,
and understand the tools and wood as never before.
I can recommend your courses to anyone."*

Linda Thomson, London

2 day, 3 day or 5 day courses available
Choice of reasonable local accommodation.

Phone now for the full details

(01364) 642 837

Email: courses@tobiaskaye.co.uk

Web Site: www.tobiaskaye.co.uk

Demos at workshop every month, Demos to clubs by arrangement.

ROUTING COURSES

- One or two day courses from basic through to advanced
- Full instruction on a wide range of Trend products, including hands free routing, safety and maintenance



New Eire
Course
Centre

trend®
routing technology

**Course centres
situated around
the UK**



AUSTIN EAMES

Plas Acton Precinct, Pandy Lane
Wrexham, Clwyd LL11 2UB
Tel: 01978 261095

Contacts: Peter or Richard Eames

CRAFT SUPPLIES ACADEMY

The Mill, Millers Dale, Nr Buxton
Derbyshire SK17 8SN
Tel: 01298 871636 Contact: Eve Middleton

EDINBURGH'S TELFORD COLLEGE

Crewe Toll, Edinburgh EH4 2NZ
Tel: 0131 315 7229
Contacts: Keith Swann or Gregor Allen

JOE GREENERS WOODWORKING CENTRE

Valley Street North, Darlington
Co. Durham DL1 1PZ
Tel: Freephone 0800 7312145
Contacts: Joe or Andy Greener



NEATH COLLEGE

Dwr-y-felin Road, Neath, Wales
SA10 7RF Tel: 01639 634271
Contacts: Dylan Wyn James or
Wyn Pritchard

OAKLANDS COLLEGE

School of Construction
St Peters Road, St Albans, Herts
AL1 3RX Tel: 01727 737213
Contact: Jeanne O'Reilly

ROY SUTTON

14 St Georges Avenue, Herne Bay
Kent CT6 8JU
Tel: 01227 372500 Contact: Roy Sutton

SPEEDWELL TOOL CO

62-70 Meadow Street, Preston
PR1 1SU Tel: 01772 252951

Contact: Monica Parker

THE ROUTING CENTRE

Bluebell Industrial Estate, Dublin 12
Republic of Ireland Tel: 00 3531 4566604
Contacts: Jim or Eamonn O'Neill

WOODCRAFT TRAINING

50 West Street, Isleham, Nr Ely
Cambridgeshire CB7 5SB
Tel: 01638 780978
Contact: Mike Humphrey

YANDLES OF MARTOCK

Hurst Works, Martock
Somerset TA12 6JU
Tel: 01935 822207
Contacts: Ann Pain
or Carol Bulmer



CLASSIFIEDS

THE IRISH ROUTING SPECIALIST

Stockist of Hardtipe, Trend, Router Cutters,
Hitachi, Bosch, Freud Routers.

Trend, Skilmate, Charnwood and Record Router Tables in Stock.

Magazines, Books and Videos.

Mail Order service available.

Joe McKenna Limerick Ltd.

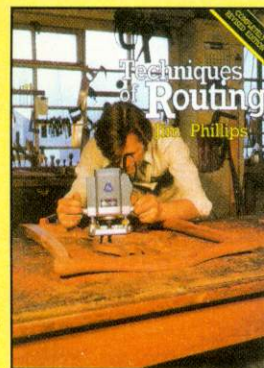
55 Parnell Street, Limerick, Eire

Tel: 061 413888 Fax: 061 417500

Website: www.joemckenna.ie

On Offer for Just £10 Techniques of Routing Jim Phillips

The router has become a 'have to have' power tool - heavier duty ones are being inverted and used legitimately as machine table routers. In this edition the author examines new applications and innovative ideas and describes the vast array of cutting and shaping tools which are available. A book giving a complete insight to routing techniques and providing an investment for professional and amateurs alike.



Available from: Avenue Books,

(Dept. TR), P.O. Box 1541, London N8 0JR

Please make cheque payable to Avenue Books and add £1 for post and packing

John Quarmby Engineering

Manufacturers of Drum
Vacs and Bag Fillers for
wood dust and shavings.

- 25 litres 1 motor
- 50 litres 1 motor
- 100 litres 1 motor
- 100 litres 2 motor
- 200 litres 3 motor
- 3.38 cu.ft. and 8.8 cu.ft. bag fillers.



17, Bishop Wilton, York YO42 1RX

Tel: 01759 368273

Fax: 01759 368332

FLIPSTOP®
FAST AND ACCURATE

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.

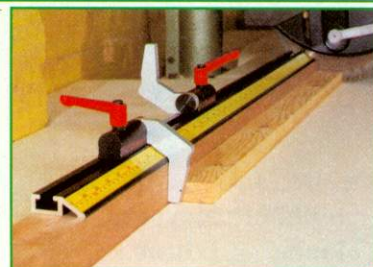
Positioning a stop takes 5-8 seconds and if further stops are used, handling can often be reduced by 50%.

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



The Future is in your hands

Do you want to run your own business and reap the rewards of your efforts... do you want a secure future and be your own boss?

You already know that there is **no magic formula** what it takes is motivation, enthusiasm, commitment... and a business package that is proven to work.

We are a part of a franchising organisation who for **forty years** have been providing individuals, and couples, with just such a package.

At Furniture Medic®, we know what makes unqualified success and are proud to offer, to the right kind of person, a number of new, home based franchises throughout the UK.

Furniture Medic® is one of the **fastest growing** franchises, offering on-site furniture repair and restoration to residential and commercial businesses. The package includes:

- Full Training Comprehensive back up
- Marketing Assistance • Unique Systems
- National Accounts • Constant public demand
- Opportunities to expand

Want to share in our success and shape your own future? **Call now** for a full info pack on:

0116 236 4646

or Fax 0116 236 2139 or write to:



FURNITURE MEDIC®

"the prescription for damaged furniture."™

ServiceMaster Ltd. ServiceMaster House, Leicester Rd, Anstey, Leics LE7 7AT
Furniture Medic is part of the Quality Service Network and wholly owned subsidiary of ServiceMaster



CASE STUDY

"We began our business in 1992 and by the end of our 1st year had achieved a turnover in excess of £36,000. With help of ServiceMaster we have expanded to include an increase in staff and turnover approaching £200k"

Ernie Blair, Tyneside



YOUR PROFILE

You will need to be motivated and committed to owning a business. Management skills are not essential although an affinity with home improvement is. Drive and ambition will ensure that your business realises its full potential.

LEIGH ROUTER JOINERY JIGS

Precision, Strength, Beauty...

Hallmarks of The World's Most Versatile Dovetail Jig System



End Table with inlaid Isoloc "Key" joints

▲ Cradle with coggled through dovetails

Create Dovetails, Finger Joints, Isoloc Joints and Multiple Mortise and Tenons!

At the centre of the Leigh Router Jig System is the amazing 24" D4 Dovetail Jig which makes through, half-blind and sliding dovetails with infinite adjustment of spacing and tightness of fit.

Add the F1 Finger Joint Template for an incredible range of square or unique rounded finger joints in sizes from 1/16" to 1/2".

With the M2 Multiple Mortise and Tenon Attachment you'll rout perfectly snug rows of multiple mortises and tenons, in any layout.

And finally, the world's first organically-shaped interlocking joints are easy to cut with our NEW 11 Isoloc™ Joint Templates. Three different Isoloc templates create six unprecedented joints that are impossible to cut by hand.

Both Isoloc and Finger joints are infinitely adjustable for perfect fit with the standard Leigh Variable Guidebush System (VGS). Create them all, from the dovetail and beyond with the world's best router joinery jig system.

Freephone For Your Free 32-Page Catalogue Now!

0800 893 183

Leigh Industries (UK) Ltd., Freepost SN2106
Chippenham, Wiltshire SN15 5TA Fax 01249 758866



LEIGH

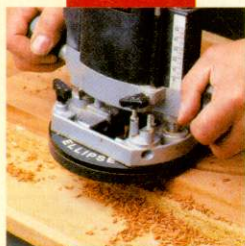
Joining Tradition With Today

CLASSIFIEDS

WRITING BOOKS ABOUT ROUTING

If you have ever thought of writing, or have written, a book about your craft, contact our Books Editor for an initial discussion.

New and inexperienced writers will be given advice and guidance by a friendly and professional team.



Write to:
Stephanie Horner,
Managing Editor
GMC Publications Ltd
166 High Street
Lewes, East Sussex BN7 1XU
or telephone 01273 477374



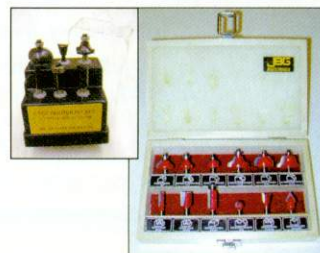
0-6" LCD DIGITAL CALIPER
£44.95

MEASURE INSIDE, OUTSIDE
&
DEPTH, ZERO ANYWHERE
ON THE SCALE. CONVERTS
FROM METRIC TO IMPERIAL
AND VICE VERSA
0-12" LCD DIGITAL CALIPER
£89.95 (NOT PICTURED)

TCT ROUTER SETS

6 PIECE TUNGSTEN CARBIDE
1/2" SHANK SET
IN PLASTIC DISPLAY CASE
£14.95

12 PIECE TUNGSTEN CARBIDE
1/2" SHANK SET
IN WOODEN BOX
£32.50 (REDUCED FROM £39.95)



SUPERB QUALITY
8 PIECE AUGER SET
IN WOODEN BOX
6-20mm x 230mm LONG
£24.95 (REDUCED FROM £29.95)

6 PIECE AUGER SET
IN WOODEN BOX
10-20mm X 460mm LONG
£37.50 (NOT PICTURED)

ALL PRICES INCLUDE BOTH VAT & P+P

JBG, 226 WHITEHORSE ROAD, CROYDON,
SURREY CRO 2LB
TEL: 0208 665 1041
FAX: 0208 684 2523
EMAIL: enquiries@jbgroves.freemove.co.uk

JBG
J&B Groves Ltd

ALL CREDIT CARD ACCEPTED

KEEPING PACE WITH TECHNOLOGY TURN TO WEMA...

Programme

- CNC Copy Lathe, Long or Short Bed
- CD Long or Short Bed, Hydraulic Copy Lathe
- Joker 7000 Hydraulic lathe, long or short bed
- Minimate 65 High Volume, small components lathe
- Minimate 45 High Volume, small components lathe
- Minimate 25 High Volume, small components lathe
- Hobby Lathe, Beta, Gama, Alpha
- Profile Sanders and Colour Tumblers



... unsurpassed build quality, reliability
and service at an affordable cost

148 Sandy Lane, St. Ives, Ringwood, Hampshire BH24 2LH
Tel: (01425) 482898 Fax: (01425) 489400

**ALL IN ONE PLACE?
AT THE SAME TIME?**

That's our aim. To produce the best, and most comprehensive, "National Standard" show for the East of England..... So we've called it the

**EAST OF ENGLAND
WOODWORKING AND
TOOL SHOW**

When? Suffolk Showground, Ipswich
9.30 - 5.30 Saturday 11th March 2000
9.30 - 4.30 Sunday 12th March 2000

Entrance £4 on the day, under 12's free, plus free parking, or take advantage of our "Early-Saver" scheme below:-

Please forward ☐ "Early-Saver" tickets at £3 each

Name: _____
Address: _____
Post Code: _____

Enclose a cheque or P.O. Payment and a stamped addressed envelope or 2nd Class stamp, and send to:-

East of England Exhibitions The Chestnuts, Justice Wood
Polstead, Suffolk, Co6 5DH
Tel: 01787 211939

ENGLISH OAK Sawmill Clearance

1" sawn straight edge boards.

Air dried in stick for 15 years.

Finished off in kiln to 9% moisture content.

3 x 1 .54p per foot

4 x 1 .72p per foot

5 x 1 .90p per foot

6 x 1 £1.08p per foot

CORRYMOOR WOODCRAFT

01404 861513



MELVYN FIRMAGER

The Unique Tool House and School of Woodturning

I SELL

MICROCLENE AIR FILTERS

because they are the economic & effective answer to ambient dust problems in the workshop & finishing room



MC400

"We give the best advice from personal experience and match the best current special offers."



MC1200

I have been using Microclenes in my workshop and Woodturning School for well over a year now, with considerable success. Call me for advice. Even send me a sketch of your workshop with SAE and of any dust related health problems you suffer with. I will advise which model/s will suit you best. Have what you need, not what someone else wants to sell you. See my test report in *Woodturning* No.70 Dec 98. Or ask me for a copy. I gave 6 out of 5 for these great products. I breath easier & cough less. If in doubt come and see them in use - call us.

We can take orders by telephone

MAGNETS FOR HEALTH

Most woodworkers suffer with aching joints & muscles: wrists, elbows, neck, knee and ankles. Backache & breathing difficulties. Often the problem is with incorrect stance and body movement, and this needs to be addressed, but once we have a problem it is difficult to deal with.



MAGNET THERAPY

could just change your life. It has changed ours

Call Anne & Melvyn for advice. For written information please send a SAE to:

Nut Tree Farm, Stoughton Cross, Wedmore, Somerset BS28 4QP

Tel & Fax 01934 712404 International Tel & Fax +44 1934 712404

E-mail: melvyn.firmager@netgates.co.uk



CLASSIFIEDS

THE POWERTOOL EXPERTS

**GEORGE HIGGINS
(SIDCUP) LTD.**

- METABO
- DeWALT
- TREND CUTTERS
- MAKITA
- RYOBI
- ELEKTRA BECKUM
- SHEPPACH
- BOSCH

WE STOCK THE FOLLOWING :-

BANDSAW BLADES
ROUTER BITS
DRILL BITS
DIAMOND CUTTERS
SANDING BELTS
SAWBLADES
LATHES
CORDLESS DRILLS
BENCH GRINDERS
TITANIUM DRILL BITS
PLANER BLADES
NUTS BOLTS AND SCREWS
+ MANY MORE PRODUCTS



WE ALSO STOCK A WIDE RANGE OF
HAND TOOLS
STANLEY, KNIPEX C.K.
PHONE FOR MORE DETAILS
0208 300 6696

83 STATION ROAD SIDCUP KENT DA15 7DN
TEL: 0208 300 3161

READER'S OFFER

IMMEDIATE COVER OVER THE PHONE!

No need to complete a proposal form

HOLIDAY INSURANCE



0800 40 10 10

INCLUDES 24 HOUR EMERGENCY COVER!

The Guild of Master Craftsmen Insurance Brokers



FOR SALE

ROUTING EQUIPMENT

Charitable trust has items to dispose of.
Slightly used but guaranteed in good
order. Write for list of equipment to:

P.C.S. Trust,
Box 58, Radlett, Herts, WD7 9BF

Method Tools Ltd.

Suppliers of Sawblades,
Router Cutters and Tooling for
Wood, Plastic and Aluminium

**SAVE UP TO 60% ON
ROUTER CUTTERS**
Choose 10 HSS or TCT
cutters for £19

Or select from our Catalogue

Tel: 07041 428175

Fax: 07041 428185

email: methodtools@hotmail.com

PLEASE MENTION THE ROUTER WHEN REPLYING TO ADVERTISEMENTS

CARBON STEEL TRUCUT BANDSAW BLADES

MAKE	EXAMPLES	1/8"	1/4"	3/8"	1/2"	10% Discount when you order 5 or more blades. Metal cutting Blades also available		
		TPI 14-18	6-10-14	6-10-14	4-6-14			
BURGESS	54 1/2"	-	5.30	5.40	5.45			
BURGESS	56 1/2"	-	5.35	5.45	5.50			
DEWALT/B&D	59 1/2"	-	5.40	5.50	5.60			
CORONET	67 1/2"	-	5.60	5.70	5.80			
NU TOOL	70 1/2"	7.00	5.90	6.15	6.25			
All other sizes available - Please take price of next largest size		1/8"	1/4"	3/8"	1/2"	5/8"	3/4"	1"
		TPI 14-18	6-10-14	3-6-10-14	4-6-10-14	4-6-10	3-4-10	2-4
INCA/STARTRITE	73"	7.10	6.00	6.20	6.30	7.45	-	-
DEWALT	82 1/2"	7.70	6.50	6.65	6.75	8.40	8.75	-
KITY 612	83 1/2"	7.70	6.50	6.65	6.75	8.40	8.75	-
MINIMAX	86"	7.80	6.55	6.70	6.90	8.55	8.90	-
STARTRITE/RECORD	88"	7.90	6.60	6.75	6.95	8.60	8.95	-
KITY 613	90 1/2"	7.95	6.65	6.80	7.00	8.70	9.00	11.85
STARTRITE 351	102"	9.15	7.65	7.85	8.00	9.70	10.10	12.40
STARTRITE 352	112"	9.65	7.90	8.10	8.30	10.05	10.60	12.95
ELEKTRA	133"	10.35	8.40	8.60	8.75	10.70	11.25	13.75
MINIMAX	144"	10.75	8.60	8.80	9.00	11.00	11.55	14.25

PHONE OR POST CREDIT CARD, CHEQUE OR PO FOR IMMEDIATE DESPATCH TO:
TRUCUT, SPURSIDE SAW WORKS, ROSS-ON-WYE, HEREFORDSHIRE HR9 7TJ.

TEL: 01989 769371 FAX: 01989 567360



INDEX

Adkwik	53	KWO	24
Axminster	IFC	Machine Mart	15
Axminster/Jessada	57	MSC	44
Bosch	33	Makita	37
Central W/W	77	Makita Competition	63
C.M.T	BC	O'Donnell	34
Charnwood	34	Paskin	64
Cooksons	34	Poolewood	78
D&M	6 & 7	Powertek	30
Dure-Edge	54	S.K. Promotions	49
Elektra Beckum	12	Stobbs	49
Elysium	73	Taylor Bros	58
Emco	67	Tool Shop	38
Freud	21	Triton	38
GPS	78	Unicut	IBC
Hegner	43	Wardill	54
Joe Greener	73	Woodrat	38
John Boddy	53	Yandles	44

BITS & PIECES

Company Name & Address	Telephone & Facsimile No.s	Routers	Router Cutters	Jigs & Accessories	Sharpening	Extra Details
GENERAL FIXINGS LTD Unit 54, Beeches Industrial Estate, Waverly Road, Yate, Bristol, AVON BS37 5QR	Tel: 01454 310015 Tel: 01454 273164 email: sales@generalfixings.co.uk website: www.generalfixings.co.uk					Probably the best selection of router bits and power tools in the West Country. DeWalt, Makita, AEG service agents.
NEWBURY TOOLS LTD Unit 5 Boundary Rd Newbury BERKSHIRE RG14 5SS	Tel: 01635 30804 Fax: 01635 529068 email: sales@newburytools.com					Stockist of DeWalt & Trend routers. Wide range of Trend cutters. Freud & Titman also stocked. Good selection of other power & hand tools also books & accessories. Mail order service available.
WOKINGHAM TOOL CO. LTD 97/99 Wokingham Road Reading BERKSHIRE RG6 1LH	Tel: 01189 661511 Fax: 01189 351441					Our workshop will repair and service your electrical router and other power tools. Your router cutters can be expertly resharpened.
ISAAC LORD LTD 185 Desborough Road High Wycombe BUCKINGHAMSHIRE HP11 2QN	Tel: 01494 462121 Fax: 01494 445124 website: http://www.isaaclord.com					Over 4000 square feet of hand and power tools. Good stocks. Mail order service, same day despatch.
CBS (POWER TOOLS) LTD VP Square, Storeys Bar Road Fengate, Peterborough CAMBRIDGESHIRE PE1 5YS	Tel: 01733 343031 Fax: 01733 897151					Power tool specialists - good selection of Routers from leading manufacturers for professional and enthusiast. Phone for advice and best prices.
TOOLFIX SERVICES 10 Highbury Street Peterborough CAMBS PE1 3BE	Tel: 01733 347348					Woodworking Lathes & accessories. T.C.T saw blades, fixings & Ironmongery. Spindle tooling & shows. Router cutters, power tools & abrasives. New & used woodworking machinery always available.
J. GERALLT DAVIES & SON Teifi Warehouse Cardigan CEREDIGION SA43 1DB	Tel: 01239 612336 Fax: 01239 615472					Over 28 years experience in sales of woodworking machinery, abrasives, adhesives, power tools and fixings. Also main service agents.
SIA AGENCIES LTD 157-173 Roden Street Belfast Co. ANTRIM BT12 5QA	Tel: 01232 246461 Fax: 01232 240745					Stocking power tools, machinery and consumables relating to your trade. Demonstrations available on most equipment. Next day delivery.
LINTON & ROBINSON Dock Street Strabane Co. TYRONE BT82 8DB	Tel: 01504 382486 Fax: 01504 382019					Established in 1957. Stockists of Trend cutters & power tools such as Elu/DeWalt, Bosch, Hitachi, Elektra-Beckum, Record Power and Black & Decker. Mail Service available.
TIMBERMAN Gwili Garage, Bronwydd Camarthen DYFED SA33 6BE	Tel: 01267 232621 Fax: 01267 222616 Mob: 0374 100308					Routing Courses and Demonstrations available on all router machines, router jigs, router cutters, dust extraction etc.
THE WOODCUT TRADING CO 80 Ninfield Road Sidley, Bexhill-on-Sea SUSSEX TN39 5BB	Tel: 01424 819900 Fax: 01267 222616					Main Stockists of CMT router Cutters. All main makes of Machinery and Power Tools, visit our superstore-size premises for demonstrations and the best possible UK prices. Mail order available.
TOOLITE The Mews, Mitcheldean GLOUCESTERSHIRE GL17 0SL	Tel: 01594 544521 Fax: 01594 542552					Router demonstrations & courses available. Main stockist for DeWalt, Bosch, Trend & Titman.
 Available upon order  Popular Range in Stock  Complete Range in Stock						

BITS & PIECES

Company Name & Address	Telephone & Facsimile Numbers	Routers	Router Cutters	Jigs & Accessories	Sharpening	Extra Details
CRM SAW CO LTD 17 Arnside Rd Waterlooville HAMPSHIRE	Tel: 01705 263202 01705 255144 Fax: 01705 265565	●	●	●	✓	Power tools: Dewalt, Ryobi, Hitachi Router cutters: Titman, Trend, KWO Freud Machines: Kity, Elektra, Scheppach, Record, Rexon, Draper and many other tools, equipment & books in stock.
HEALYS - THE TOOL SPECIALIST 3 Verlam Road St. Albans HERTFORDSHIRE AL3 4DA	Tel: 01727 810668 Fax: 01727 811907	●	●	●	✓	Large range of factory re-conditioned power tools. Large savings. Repair service available. Please ring for details.
BROOKERS 39 Bucklersbury Hitchin HERTFORDSHIRE SG5 1BQ	Tel: 01462 434501	●	●	●	✓	Trend, Titman, Black & Decker and Bosch routers stocked.
TILGEAR Bridge House, 69 Station Rd Cuffley HERTFORDSHIRE EN6 4TG	Tel: 01707 873434	●	●	●	✗	We stock Trend router cutters, Incra jigs and fences, Diamond sharpeners, and Festo and Porter Cable routers.
GEORGE HIGGINS SIDCUP LTD 83 Station Road Sidcup KENT DA15 7DN	Tel: 0181 300 3161 Fax: 0181 302 7606	●	●	●	✓	Over a thousand router cutters in stock. Most makes of routers and accessories. Hitachi, Makita and Elu dovetailers and benches.
GRIP ENGINEERING SUPPLIES LTD 4 Portobello Parade, West Kingsdown, Nr Sevenoaks KENT TN15 6JP	Tel: 01474 853153 Fax: 01474 854625	●	●	●	✓	Our extensive showroom offers a full range of Atlas Copco (AEG), Hitachi, Makita & Bosch power tools. A complete repair service is available for any make.
BLACKPOOL POWER TOOL CO Mowbray Drive Layton, Blackpool LANCASHIRE FY3 7UN	Tel: 01253 393577 Fax: 01253 392228 Service: 01253 394821	●	●	●	✓	Largest display of power tools in the Northwest. Stockists of Trend router cutters, Freud woodworking machines and jigs.
LITTLE SHEFFIELD 32 Darwen Street Blackburn LANCASHIRE BB2 2BY	Tel: 01254 57282 Fax: 01254 57282	●	●	●	✓	We stock full range of Elu, Bosch, Makita, Hitachi and Freud. Routers, jigs, stands, and full repair service and parts department. Mail order service available.
LISTER IND. POWER TOOLS LTD 26 Bell Lane, Husbands Bosworth, Nr Lutterworth LEICESTERSHIRE LE17 6LA	Tel: 01858 880333 Fax: 01858 880333	●	●	●	✓	20 years of experience in the power tools business makes us the company to contact.
PARRY TYZACK 329 OLD STREET LONDON EC1V 9LQ	Tel: 0171 739 8301 Tel: 0171 739 9422 Fax: 0171 729 6023	●	●	●	✓	Established for 150 plus years. A wide range of machines & cutters always in stock. Mail order service available same day despatch.
THOMAS BROS 798 - 804 Holloway Road LONDON N19 3JH	Tel: 0171 272 2764 Tel: 0171 263 1536 Fax: 0171 263 1536	●	●	●	✓	Family run business established 77 years. Stocking extensive range of Trend cutters and Jigs. Main dealers for Bosch, DeWalt, Makita & Record. Also extensive range of hand tools. Repair service available. Backed by friendly professional service.
JAYCEE TOOLS 521c Yeading Lane Northolt MIDDLESEX UB5 6LN	Tel: 0181 841 1099 Fax: 0181 842 4966	●	●	●	✓	Mail order sales, repair service. Large stocks of power tools, hand tools and woodworking machinery. Central London 12 miles, A40 2 miles.



Available upon order



Popular Range in Stock



Complete Range in Stock

BITS & PIECES

Company Name & Address	Telephone & Facsimile Numbers	Routers	Router Cutters	Jigs & Accessories	Sharpening	Extra Details
NORFOLK SAW SERVICES Dog Lane Horsford, Norwich NORFOLK NR10 3DH	Tel: 01603 898695 Fax: 01603 898695 email: sales@generalfixings.co.uk website: www.generalfixings.co.uk					Long established family run business. Specialising in router cutter sharpening. Large stocks of woodworking machinery and power tools on show. Good after sales service.
JOHN BODDY FINE WOOD & TOOL STORE LTD Riverside Sawmills Boroughbridge NORTH YORKSHIRE YO51 9LJ	Tel: 01423 322370 Fax: 01423 323810					Mail Order Catalogue, 264 full colour pages, £3 (£3 voucher against first purchase). Self Service Store; 10,000 products; 200 types/species of timber. Courses and Free demonstrations.
TOOLSURE LTD Unit 2, Northern Road Newark NOTTINGHAMSHIRE NG24 2EH	Tel: 01636 613121 Fax: 01636 640330					De Walt woodwork centre & repair agent. Festo main dealer. 'Try before you buy' demo area. Full range of hand & power tools. Repair centre & sharpening service.
SWAN HIRE LTD Merlins Hill Haverfordwest PEMBROKESHIRE SA61 1PE	Tel: 01437 765251 Fax: 01437 763886					A good range of Elu routers and other Elu equipment available for hire. Jigs are now also available for hire.
JAMES SIME & Co LTD 29 Cow Wynd Falkirk SCOTLAND FK1 1PT	Tel: 01324 622592 Fax: 01324 612522					Large showrooms with all types of machinery & power tools on show
FIXINGS & POWERTOOL CENTER Brighton Road, Salfords, Redhill, SURREY RH1 5EQ	Tel: 01293 820088 /07000 FIXINGS Fax: 01293 820099 email: fixingscenter@compuserve.com					Free Nationwide Delivery Service. Complete Selection of Power & Hand Tools plus Accessories. Repairs & Service Dept. Internal Support & Technical Advisors. Fax/Tel or visit quoting 'Bits & Pieces' for Discount off List Price. For Services/Repairs ask for Edd the Fix.
L H TURTLE LTD 6-12 Park Street Croydon SURREY CR0 1YE	Tel: 0181 688 5513					Hand and power tool specialists. Handicraft and ironmongery depts., backed by personal and friendly service. Free delivery to 50 miles.
ROUTECH 59 Langstone Road Dudley WEST MIDLANDS DY1 2NL	Tel: 01384 827893 Fax: 01384 827893 Mob: 0956 629940					We stock KWO and Trend tooling jigs & accessories. Freud, DeWalt, Bosch, Titman & Makita available to order. Please telephone before visiting.
D B KEIGHLEY MACHINERY LTD Vickers Place, Stanningley Pudsey, Leeds WEST YORKSHIRE LS28 6LZ	Tel: 01132 574736 Fax: 01132 574293 www.webworld.co.uk/mail/keighley					70 years service to woodworking industry. 70 machines always on show. Repairs to power tools and machines. Part-ex and lease a pleasure.
H. ELLIS & SONS 57-77 Joseph Street, Leeds Road, Bradford WEST YORKSHIRE BD3 9HY	Tel: 01274 724989 Fax: 01274 393503 website: www.ellistools.co.uk email: info@ellistools.co.uk					Extensive range of Trend cutters and jigs. Main dealers for DeWalt, Metabo and Fein Power Tools. Two large demonstration rooms. Top quality hand tools and ironmongery for all trades. Over 15,000 lines in stock. Friendly and professional service.
EUROMAIL TOOLS 65 Low Street KEIGHLEY WEST YORKSHIRE BD21 3QP	Tel: 01535 663325 Fax: 01535 610996					One of the finest selections of power tools & accessories in the UK. Mail service available.
WILTSHIRE POWER TOOLS 6 Semington Turnpike Semington, Nr Trowbridge WILTSHIRE BA14 6LB	Tel: 01380 870831 Fax: 01380 870831					Appointed sales and service agent Makita, De Walt, B&D, Bosch. Area covered - Malmesbury, Calne, Marlborough, Warminster, Frome, Trowbridge, Devizes. 6 Days 8 - 5.30pm.



Available upon order



Popular Range in Stock



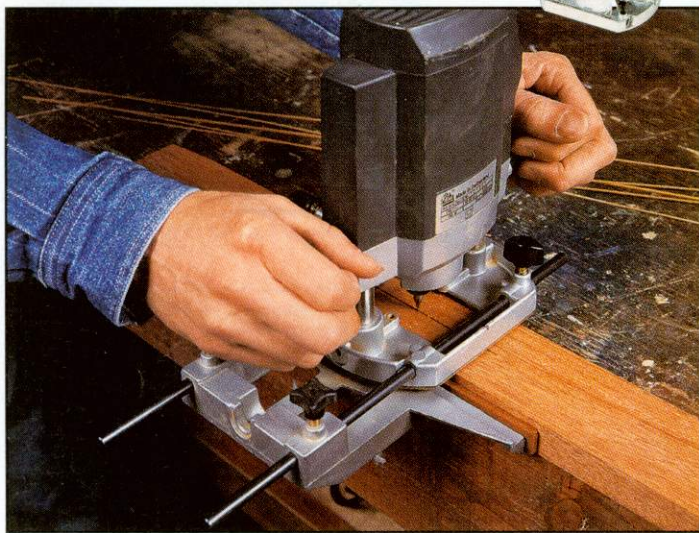
Complete Range in Stock

Next issue of **The Router**

Anthony Bailey rounds up lightweight routers and puts them to the test



Phillip Gullam routs a traditional display cabinet for kitchen



Paul Richardson reveals the art of crossbanding and stringing with the router



HAND THIS COUPON TO YOUR NEWSAGENT TO MAKE SURE YOU NEVER MISS AN ISSUE

Please order *The Router* magazine for me and reserve/deliver a copy of every issue starting with Issue 23, March

Name

Address

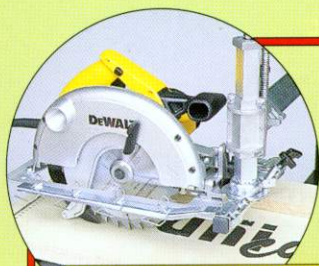
Postcode

Telephone

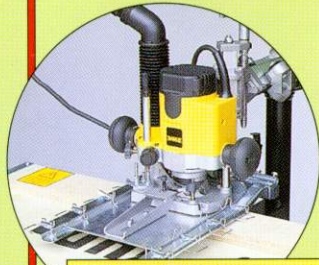
NEWSAGENT: *The Router* is available to your wholesaler through Comag Magazine Marketing

Plus The Router regulars giving you all the information, tips, and techniques that you will need to create wonderful projects and improve your routing

**ON SALE FRIDAY, FEBRUARY 25th
– DON'T MISS IT!**



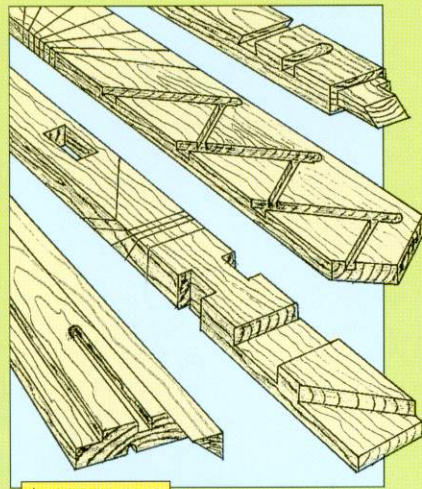
Rip and crosscut work to the precise dimensions and angles you require.



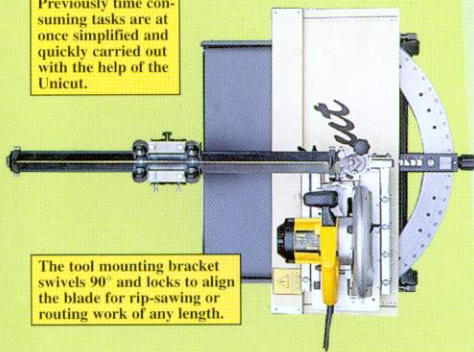
Machine rebates, tenons, housings etc. anywhere in a work face or edge.



Cut metals, pre-score or groove stone, ceramics etc. with speed and accuracy.



ACCOMPLISH MORE! Previously time consuming tasks are at once simplified and quickly carried out with the help of the Unicut.

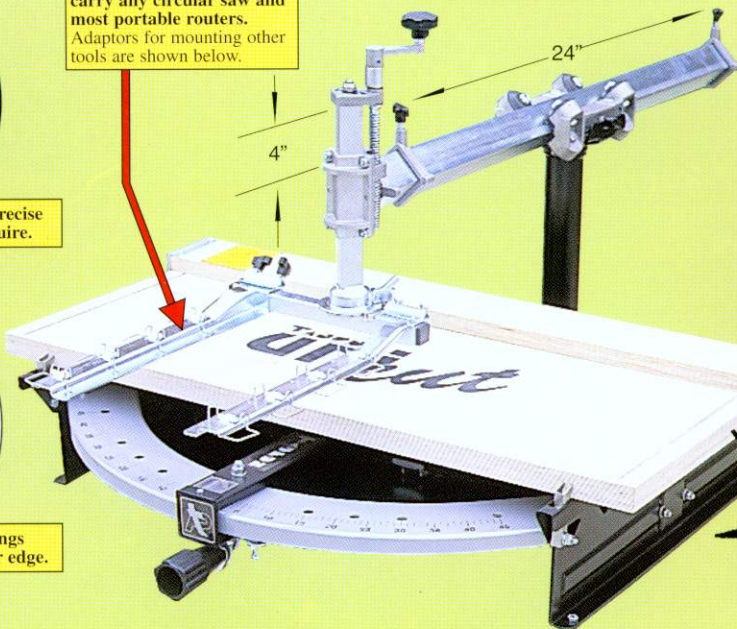


The tool mounting bracket swivels 90° and locks to align the blade for rip-sawing or routing work of any length.

Radial arm adjustment: 45° - 0° - 45° (0, 15, 22 1/2, 30 & 45° pre-sets)
Crosscut stroke: 0 - 24" (620mm) with adjustable travel stops
Vertical adjustment of toolholder over table: 0 - 4" (100mm)
Swivel adjustment of toolholder for longitudinal feed: 90°
Table size: 32" x 12" (810 x 305mm) with dual scale graduations
Fence: 32" x 4" x 1" (810 x 100 x 25mm), adjusts across table width
Weight (machine): 40lbs (18kg); optional floorstand: 24lbs (11kg)

This adjustable tool mounting bracket is designed to carry any circular saw and most portable routers. Adaptors for mounting other tools are shown below.

Arm has 0 - 24" cutting stroke and 0 - 4" vertical adjustment.



EXPRESS DELIVERY

RING TODAY - USE TOMORROW!

Guaranteed next-day delivery for orders received before 12 noon. (Mon - Thurs.)



THE NEW "UNICUT"
UNIVERSAL RADIAL ARM FOR POWER TOOLS
JUST -

£199!

(U.K. DELIVERY £14)

Easily portable machining facilities for consistent, accurate and repeatable results wherever you need them - at home or on site:

UNICUT u.k.

01323
442440

*A Personal Note to
All Our Existing & Future Customers:*

We are delighted to offer you this marvellously versatile new machine, the "Typhoon Unicut". You will see that it combines many of the virtues of the most useful power tools and workshop machines in a single unit. It is also very simple to use.

A portable circular saw for example is ideal for reducing large workpieces to manageable sizes but cannot be relied on for cutting finished project components (especially small ones) to the exact dimensions and angles you require. Mounted on the Unicut however, your portable saw becomes a precision tool for just this purpose. For this reason alone, at a VAT inclusive cost of less than £200, the new machine is fantastic value. (Currently, a mid-priced radial arm saw costs around £1000 and requires more-or-less permanently dedicated workshop space.) But the Unicut does indeed bring you much more:

Interchange the saw for a router and you have an overhead, radial arm routing facility that is perfect for machining rebates, grooves, stair strings, mortise and tenon joints, stopped housings for shelves, and so on - all without additional jigs or templates. You can even mount an angle grinder (using the optional mounting bracket and an appropriate cutting disc) for cutting metals and stone. At the same time, your power tools remain directly to hand for conventional use.

The machine is light enough to be carried and set up anywhere you are working. So, in any situation where workshop machines are not available (considering space, cost or distance), the Unicut really does contribute to your output and capabilities in an unparalleled way.

Contact me today to take full advantage of this limited introductory offer and discuss any points you would like clarified.

Looking forward to your call, yours,

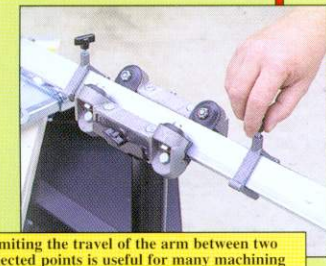
Roger Buse

Roger Buse.
(M.Dir. Unicut U.K.)

UNICUT U.K. IS A DIVISION OF HEGNER U.K. LTD.



Pre-set stops give the precise joint angles for 4, 6, 8 or 12 sided frames. Superb protractor scale allows equally precise selection of any other angle. Simply twist the locking handle to engage or release the cam operated detent pin.



Limiting the travel of the arm between two selected points is useful for many machining jobs such as routing housings, mortises, etc. A central clamp is also provided to lock the arm completely for longitudinal work feeding i.e., ripping, edge rebating and so on.

Weighing just 40lbs (18kg), the Unicut is easy to carry. It can be stand mounted or positioned for use on any flat and stable surface.



*LIMITED SPECIAL OFFER PRICES -

Order by phone with credit card, or post with cheque payable to Hegner U.K. Ltd. We dispatch immediately, with 30 day approval and full cash refund undertaking.

UNICUT Radial Arm Unit:	169.37 + VAT = £199.00
H.D. Floorstand for above:	51.00 " 59.90
Universal router adaptor:	16.94 " 19.90
Angle grinder adaptor (115-125mm):	24.26 " 28.50

"Next-Day" Delivery (Mon - Thurs.)	Unicut (including accessories):	14.00
	Floorstand (ordered separately):	9.50
	Adaptors (ordered separately):	3.50

UNICUT u.k.

Unit 8, North Crescent, Diplocks Way,
Hailsham, W.Sussex, BN273JF

TEL: (01323) 442440
FAX: (01323) 840696

CMT™

**CMT Quality is still Supreme —
OFTEN COPIED BUT NEVER SURPASSED!**
The Unique **ORANGE** Colour is your
guarantee of the following . . .

The use of a genuine Teflon® industrial coating that is baked on, Swiss fatigue proof super strength steel, special micrograin carbides from Cerametal, advanced CNC production machinery that is the best in the world and **35 YEARS** of **MANUFACTURING** experience

Multiprofile Cutters

with ball bearing guides

There is no limit to the profiles you can create with CMT multiprofile cutters. Simply adjust the height of the cutter to create classic profiles in a single pass. Or make several passes to create more complex and decorative effects. The micrograin carbide tips stay sharp longer for a guaranteed superior performance.

NOTE: Use only on router tables equipped with a fence



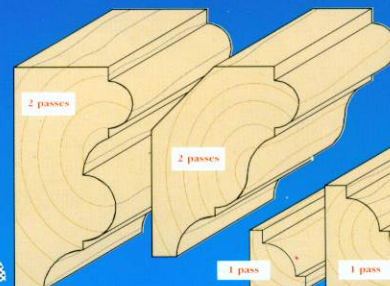
856-802
£49.00

Dia
55.5mm
Cut Length
47.6mm



856-801
£39.00

Dia
51.75mm
Cut Length
28.6mm



**Send for the latest
CMT catalogue**

Router Table Insert Plate

Our best selling insert plate has been improved, it can be drilled to take any make of router. The insert measures 9" x 12" x 3/8" the plate also has a 1/4" x 1/2" lip that allows it to be rebated into a 3/4" thick top. Also underneath the plate, are concentric rings and radial lines to assist router positioning. The two removable centre rings give apertures of 100, 66 & 31.5mm (this last size is also rebated to take the guide from our brass inlay kit - see page 75 of our catalogue) while the feed off pin can be located in any one of five positions. Made in the USA with a slight crown to ensure the centre is the highest point. This plate is the best on the market and is made of Super Strong Phenolic (will take 18,000 lbs per sq in) with a moulded mounting ledge and fixings. Full fitting instructions are also provided.



£32.00

or just **£25.00**
with the router fence or any CMT cutter above



£99.95
including bold
down assembly

Router Fence

with Roller Hold Down

From the same stable as our best selling Router Insert Plate, this fully adjustable fence is based on a well designed and machined alloy casting. The spring loaded rollers of the fence hold down assembly, apply downward pressure and are angled at 5° to draw the material being worked tight to the fence. The clever design of this fence makes routing both safer and easier. **Use this fence to improve the results from your home made router table.** **MADE IN THE USA**

VISIT OUR Woodcut 2000 Exhibition

At The De La Warr Pavilion, Bexhill-on-Sea

Friday 24th to Sunday 26th March 2000

Fri 9.30am-5.00pm, Sat 9.30am-5.00pm,

Sun 10.00am-4.00pm

**Take advantage of our
Special Exhibition offers**

FREE ENTRY

- See the Professionals

FREE DRAW

- Win a Gold Sovereign



80 Ninfield Road, Sidley,
Bexhill-on-Sea, East Sussex TN39 5BB

Telephone: 01424 819900

Fax: 01424 819909

To Order Phone

0800 378027 Now!

Send for our mail order catalogue
or visit our web site - www.woodcut.co.uk
All offers subject to stock

VAT & Delivery to British Mainland included