

EST. 1901

STILL THE ORIGINAL AND BEST

The Woodworker

September 2008

www.getwoodworking.com

& Woodturner

Know your Bandsaw

Andy Standing takes us through from the basics and tests six of the best

PROJECTS FOR YOU TO MAKE

- Key cupboard
- Oak book case
- Bread board
- Mug tree
- Spice rack

NEW SERIES SHOP NOTES
with Keith Smith

TURNING

MUG TREE



ON TEST

HOCK BLADES



PROJECTS

ECUADOR CHAIR



£3.40



PLUS: ROUTER CUTTER CARE ■ SPINDLE MOULDER TIPS ■ READERS' GALLERY

#1
UK's
for PROFESSIONAL
POWER TOOLS

WHERE THE TRADE BUYS™ SCREWFIX®

**WE LOVE
BRITISH
FOOTBALL**



Proud sponsors of Masters Cup 2008

CHOOSE FROM OVER 100 CORDLESS DRILLS

18V Combi Drill



**ONLY
£279.99**

77931-92 BHP452RFE 18V £279.99

9.6V Drill/Driver



**ONLY
£69.99**

30227-92 6260DWPE 9.6V £69.99



**ONLY
£249.99**

10442-92 DW00GK2 24V £249.99

RYOBI ONE PLUS FLEXIBILITY

18V Twin Pack



**ONLY
£149.99**

29550-92 GCK182-004 18V £149.99



**ONLY
£9.99**

59256-92 99 Piece Set £9.99

TOP DEALS • TOP DEALS • TOP DEALS

6kg SDS Plus Hammer Drill



**ONLY
£63.99**

36136-92 ERB015SDS 240V £63.99

101 Piece Accessory Kit



**ONLY
£19.99**

96659-91 101 Piece Kit £129.99

99 Piece Assorted Drill Set



**ONLY
£9.99**

59256-92 99 Piece Set £9.99

14.4V Drill/Driver



**ONLY
£189.99**

96904-92 BSZ14.4V Lith-Ion 14.4V £189.99

TOP BRANDS LOW PRICES CHOOSE OVER 1300 HAND TOOLS

Smoothing Plane



**ONLY
£25.99**

16236-92 2" Plane £25.99

Adjustable Mechanical Mitre Saw



**ONLY
£26.99**

28169-92 Mech Mitre Saw 18tpi £26.99

Woodworking Vice



**ONLY
£44.99**

63982-92 7" (177mm) £44.99

Wood Chisel Sets



**ONLY
£12.99**

65092-92 3 Piece Set £12.99

57590-92 5 Piece Set £19.99

18V One+ Jigsaw - Bare



**ONLY
£74.99**

27004-92 CJS-180LM 18V £74.99

18V One+ Random Orbital Sander - Bare



**ONLY
£44.99**

62453-92 CRO-180M 18V £44.99

Massive Range of Branded Kits

18V Triple Pack HITACHI



**ONLY
£199.99**

92579-92 KC18DK £199.99

Master 800 Workbench



**ONLY
£84.99**

13959-92 Master 800 £84.99

14.4V Drill/Driver



**FROM ONLY
£79.99**

18V Combi Drill



**FROM ONLY
£119.99**

Over 19 Million Screws Sold Every Week

General TurboGold® Midi Case



**ONLY
£49.99**

82486-92 Midi Case General Mix £49.99

6x Wood Bits Sets



**ONLY
£34.99**

77075-92 6 Piece Set £34.99

ORDER NOW

- ✓ TRADE PRICES
- ✓ MASSIVE RANGE
- ✓ FAST & RELIABLE

IT'S SO EASY!

**CALL
0500 41 41 41**

**CLICK
www.screwfix.com**

**VISIT
Trade Counters**

ALL PRICES INCLUDE VAT.

*Was price relates to www.screwfix.com price from 05/03/08 - 31/03/08. **Was price relates to www.screwfix.com price from 03/03/08 - 31/03/08.

welcome



I'm not going to tell you what we've got in store for you this month. Why spoil the surprise? Just flick through and soak up the wealth of ideas and technical information in this issue of your favourite woodworking magazine.

What I do want to tell you about are the new and exciting things we have planned for the near future. We're sending 'our man' to Atlanta, Georgia to be our eyes and ears at one of the biggest woodworking trade fairs in the world, the IWF. This show is big: check it out on the official show website www.iwfatlanta.com. You'll be impressed.

Mark Cass will be joining our intrepid team of writers next month with his own unique style of woodworking and writing. You will find his no-nonsense approach to woodworking both interesting and informative. Most of the work Mark has done in the years I've known him has been achieved without a vast amount of equipment or a huge workshop. Not only will Mark be showing you how; he'll also be telling you about the little gadgets and gizmos he comes across in his day-to-day life working with wood.

Out and about

Looking further ahead, Ben and I will be out and about looking at how other people woodwork – not just the glamorous workshops, although we will be showing you one or two of those, but the everyday workshops including our own. I think you'll be surprised. And while we're about it we'll give you a guided tour of my infamous small workshop, The Shed. I've used it for over 20 years and it's been the subject of many an article.

If you would like us to come and visit your workshop, get in touch by writing to me here at the office or email me direct on ralph.laughton@magicalia.com. You never know: your workshop might make it onto the pages of the best-selling woodworking magazine around!

So don't miss a single issue! Subscribe today (see page 60 for details) and let us show you how...

Ralph



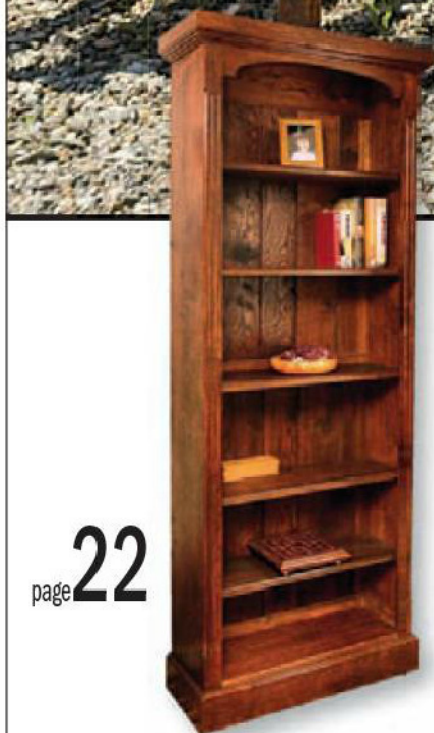
CONTENTS

*What's in store for
you this month*



page 12 'Ecuador' chairs

Restoration becomes
new-build for Keith Smith



page 22

page 62



page 72

REGULARS

- | | | | |
|----|---------------------|----|-------------|
| 3 | Welcome | 96 | Back issues |
| 8 | News / Diary | 97 | Marketplace |
| 32 | Next month | 98 | Archive |
| 60 | Subscription offers | | |

12 PROJECTS

- 12 'Ecuador' chairs**
Restoration becomes new-build for Keith Smith
- 18 Key cupboard**
Ian Wilkie lends fine detail to a humble piece
- 22 Oak book case**
A mix of traditional and contemporary from Peter Dunsmore
- 28 Readers' gallery**
Where you tell us what's been going on in your workshops

33 WORKSHOP

- 34 Hand vs Machine 3**
Tackling small workpieces with the hand plane
- 38 The spindle moulder**
Alan Holtham sings the praises of this versatile machine
- 46 Keeping your glue-ups flat**
Cauls are the secret to this essential workshop procedure
- 48 Joining without joints 6**
Ralph Laughton scares us senseless with carcass screws
- 52 Router cutter care**
Ron Fox makes a welcome return with some top tips
- 56 Hand vs Machine 3**
Power-planing small workpieces

61 TURNING

- 62 Mug tree**
Chris Child gives an old favourite a new design twist
- 67 Revolving spice rack**
Rising interest in home cooking has put the spice rack back on the kitchen worktop, says Bryn Edwards

71 ON TEST

- | | | | |
|----|----------------------------|----|---|
| 72 | Bandsaw basics | 81 | Trend Multiscribe |
| 77 | Ryobi EBW 2523 bandsaw | 82 | Hock plane blades & irons |
| 77 | Titan SF8R bandsaw | 82 | Gorilla Glue |
| 78 | SIP 01484 bandsaw | 83 | Fisch plug cutter |
| 78 | Scheppach Basato 1 bandsaw | 83 | Faithfull folding rule/rasps |
| 79 | Metabo BAS 260 bandsaw | 84 | Einhell KGSZ 2100 saw |
| 79 | Record BS250 bandsaw | 84 | Bosch GCM 8S mitre saw |
| 80 | True Angle gauge | 85 | Metabo KGS 303 Plus saw |
| 80 | Draper clamps | 86 | Robert Sorby woodcarving tools and honing kit |
| 81 | Brennenstuhl Safe-Box | | |

88 MACHINERY CHECKLIST: Random orbit and palm sanders

10 The Big Show

Andy Standing takes a trip to Germany for the Holz-Handwerk show and comes back feeling very impressed

44 Shop Notes

Keith Smith kicks off his new series on workshop matters with a guide to insulating

The Woodworker

SEPTEMBER 2008

Incorporating The Woodturner

Published by
MAGICALIA PUBLISHING LTD.
Berwick House, 8-10 Knoll Rise,
Orpington, Kent BR6 0EL
UK calls: 0844 412 2262
Int. calls: +44 (0) 1689 899200
Fax: +44 (0) 1689 899266
customer.services@magicalia.com
www.getwoodworking.com

SUBSCRIPTIONS

UK SUBSCRIPTIONS
NEW, RENEWALS AND ENQUIRIES
Tel: 08456 777 807
Email: woodworker@subscription.co.uk

USA & CANADA SUBSCRIPTIONS
NEW, RENEWALS AND ENQUIRIES
Tel: 001 732 424 7811
Email: subs@ewamags.com

REST OF WORLD SUBSCRIPTIONS
NEW, RENEWALS AND ENQUIRIES
Tel: +44 (0) 8456 777 807

TO SUBSCRIBE ONLINE, PLEASE TURN TO
THIS ISSUE'S SUBSCRIPTION OFFER

PLANS, BACK ISSUES & BINDERS

Tel: +44 (0) 1689 899200
Email: customer.services@magicalia.com

EDITORIAL

Editor-in-Chief: Jonathan Bentman
Editor: Ralph Laughton
Production Editor: Mike Lawrence
Features Editor: Ben Plewes
Technical Editor: Andy Standing

PRODUCTION

Designer: Malcolm Parker
Illustrator: Michael Lindley
Commercial Designer: Lindsey Reeves
Pre-Press: Brian Vickers
Production: Richard Baldwin
Ad production: Robin Gray, Tel: 01689 899286

MAGAZINE AND ADVERTISING

Sales Director: James Burton
Tel: 01689 899237
Senior Sales Executive: Clare Hiscock
Tel: 01689 899249
Classified Advertising Executive: Mark Williams
Tel: 01689 899253
Email: mark.williams@magicalia.com
On-Line Advertising Executive: Ben Rayment
Tel: 01689 899280
Email: ben.rayment@magicalia.com
Marketing & Subscriptions: Daniel Webb
Tel: 01689 899234

MANAGEMENT

Events Director: Jez Walters
Subscriptions Director: Rebecca Blighton
Creative Director: Nikki Parker
Deputy Creative Director: Nikki Coffey
Managing Director: Owen Davies
Executive Board: Peter Harkness,
Owen Davies, Adam Laird, Jeremy Tapp

magicalia
media

© MAGICALIA PUBLISHING LTD. 2008

All rights reserved ISSN 0032-6488

The Woodworker (ISSN 0043-776X) is published for \$87.00 per year by
Magicalia Publishing Ltd c/o EWA Magazines, 205 US Highway 22, Green
Brook, NJ 08812.

Tel: 732-424-7811. Fax: 732-424-7814.

Email: subs@ewamags.com, or visit our website

www.ewamags.com. Periodicals paid at Green Brook, NJ. Postmaster
please send address correction changes to The Woodworker c/o EWA at
the address above

The Publisher's written consent must be obtained before any part of
this publication may be reproduced in any form whatsoever, including
photocopies, and information retrieval systems.

All reasonable care is taken in the preparation of the magazine contents,
but the publishers cannot be held legally responsible for errors in the
contents of this magazine or for any loss however arising from such
errors, including loss resulting from negligence of our staff. Reliance
placed upon the contents of this magazine is at reader's own risk.

recycle
When you have finished with
this magazine please recycle it.



PEFC

PEFC/16-33-97

From sustainably managed forests
For more info: www.pefc.org



THE ONE YOU CAN TRUST FOR ADVICE AND PRICE!

THE HAND & POWER TOOLS & MACHINERY SPECIALISTS

CONTACT US NOW FOR OUR FREE CATALOGUE!



720W GST135BCE JIGSAW

- 720W
- Variable speed
- 4 stage pendulum action
- Tool-less blade change
- Dust blower
- Precision control guide jaw
- Constant electronic speed under load

BEST SELLER

CARRY CASE

NEW

BOSCH

Specification: Stroke: 26mm. No load stroke rate: 500-2,800spm. Capacities: Wood 135mm, Steel 10mm, Aluminium 20mm. Power input: 720W 240V/110V. Weight: 2.7kg.

£139.00 INC VAT
£118.30 EXC VAT
BSH GST135BCE

720W 4350FCT JIGSAW

- 720W
- Variable speed
- 3 stage pendulum
- Built-in worklight
- Tool-less blade change

20 FREE BLADES

BEST SELLER

CARRY CASE

MAKITA

Specification: Stroke: 26mm. No load stroke rate: 800-2,800spm. Capacities: Wood 135mm, Steel 10mm, Aluminium 20mm. Power input: 720W 240V/110V. Weight: 2.4kg.

£119.95 INC VAT
£102.49 EXC VAT
MAK 4350FCT

701W DW331K JIGSAW

- 701W
- Variable speed
- 3-stage pendulum action
- Anti-vibration counter balance
- Tool-less blade change
- Dust blower

CARRY CASE

BEST SELLER

DEWALT

Specification: Stroke: 26mm. No load stroke rate: 800-3,100spm. Capacities: Wood 130mm, Steel 10mm, Aluminium 20mm. Power input: 701W 240V/110V. Weight: 2.8kg.

£129.95 INC VAT
£110.60 EXC VAT
DEW 331K

150MM SXE450 TURBO TEC RANDOM ORBITAL SANDER

- 350W
- 150mm round pad
- Hook & loop
- Variable speed
- 2.8 & 6.2mm orbit settings for coarse or fine work
- Intec dust extraction unit
- Removable front handle

NEW

metabo

Specification: Power input: 350W. Voltage: 240V/110V. No load speeds: 4,200-9,200rpm. Orbit size: 2.8 & 6.2mm. Pad size: 150mm. Weight: 2.2kg.

£169.95 INC VAT
£144.64 EXC VAT
MET SXE450T

18V DC827KLV IMPACT DRIVER

- 18 volt
- Variable speed & reverse
- Robust and compact only 1.7kg!
- LED worklight
- Electronic brake
- 3 batteries, 2 x 2.6amp Ni-Mh
- 1 x 2.6amp Ni-Mh
- 40min charger

NEW

2+1 BATTERIES

BODY ONLY

DEWALT

Specification: Bit holder: 1/4". Hex. No load speeds: 0-2,400rpm. Max torque: 150Nm. Impacts Per Min: 0-2,700ipm percussion. Max Bolt Dia: M6-M12. Weight: 1.7kg.

£369.95 INC VAT
£159.95 INC VAT
£136.13 EXC VAT
DEW DC827KLV
NO BATTERIES, CHARGER OR CASE

12V B512X DRILL/DRIVER

- 12 volt
- 22 torque settings
- 2 x speed, variable & reverse
- 3 x 1.5amp Ni-Cd batteries
- 60min charger

NEW

3 YEAR WARRANTY

CARRY CASE

AEG

Specification: Chuck capacity: 1-10mm. No load speeds: 0-380, 0-1,300rpm. Max torque: 28/15Nm. Drilling capacity: Wood 30mm, Steel 10mm. Weight: 2kg.

£74.95 INC VAT
£63.79 EXC VAT
AEG B512X

18V BHP451RFE COMBI HAMMER

- 18 volt
- Hammer drill/driver
- 16 torque settings
- 3 x speed, variable & reverse
- 2 x 3amp Li-ion batteries
- Fast charger

REDUCED!

CARRY CASE

LI-ION

BEST SELLER

MAKITA

Specification: Chuck capacity: 13mm. No load speeds: 0-300, 0-600, 0-1,700rpm. Impact rate: 0-4,500, 0-9,000, 0-25,500ipm. Max torque: 40/80Nm. Capacity: Wood 65mm, Steel 13mm, Masonry 16mm. Weight: 2.2kg.

£289.95 INC VAT
£246.77 EXC VAT
MAK BHP451RFE

18V GSR18V3 DRILL/DRIVER

- 18 volt
- 20 torque settings
- 2 x speed, variable & reverse
- 3 x 2amp Ni-Cd batteries
- 60min charger

NEW

3 BATTERIES

CARRY CASE

BOSCH

Specification: Chuck capacity: 1.5-13mm. No load speeds: 0-400, 0-1,400rpm. Max. torque: 42/28Nm. Drilling capacity: Wood 36mm, Steel 10mm. Weight: 2kg.

£189.00 INC VAT
£160.65 EXC VAT
BSH GSR18V3

2.6MM GHO 26-82 POWER PLANER

- 710W
- Max depth: 2.6mm
- Rebates: 0-9mm
- Precise cutting height adjustment
- Dust bag
- Side fence

NEW

CARRY CASE

BOSCH

Specification: Power input: 710W. Voltage: 240V/110V. No load speed: 16,500rpm. Blade width: 82mm. Max cutting depth: 2.6mm. Max rebate: 0-9mm. Weight: 2.8kg.

£98.00 INC VAT
£83.40 EXC VAT
BSH GHO2682

4 1/4" 9554NBKD ANGLE GRINDER

- 115mm Dia.
- 710W, 240V/110V
- M14 spindle
- 1.4kg
- Supplied with case & diamond blade

BEST SELLER

CARRY CASE

MAKITA

Specification: Chuck capacity: 1-10mm. No load speeds: 0-380, 0-1,300rpm. Max torque: 28/15Nm. Drilling capacity: Wood 30mm, Steel 10mm. Weight: 2kg.

£44.99 INC VAT
£38.28 EXC VAT
MAK 9554NBKD

DCX4241V 18V TWIN PACK - DC727 COMBI + DC827 IMPACT DRIVER

- 18V combi hammer & 18V impact driver
- 2 x tools + 3 x batteries
- 2 x 2.6amp Nano + 1 x 2.6amp Ni-Mh batteries
- Ideal drilling & fixing pack
- All fits in one case
- 40 min charger

NEW

2+1 BATTERIES

CARRY CASE

BEST SELLER

DEWALT

Specification: DC727 18 volt Combi Hammer
DC827 18 volt Impact Driver
3 x Batteries (2 x 2.6amp Nano + 1 x 2.6amp Ni-Mh)

£399.95 INC VAT
£340.58 EXC VAT
DEW DCX4241V

MULTIMASTER FMM250W KIT

- 240V
- Power 1400W
- Dry capacity: 25ltrs
- Wet capacity: 14ltrs
- Working noise: 69
- Auto stop/start
- Air Flow: 3600 l/m
- Hose length: 2.5m
- Weight: 5.9kg

NEW

CARRY CASE

FEI

Specification: Power input: 1400W. Voltage: 240V/110V. Blade size/bore 2.16/30mm. Max cut @90°/45°: 60x270mm/60mm. Bevel Capacity: 48°. Weight: 15kg. Blade speed: 5,000rpm

£179.95 INC VAT
£153.15 EXC VAT
FEI FMM250WTOP

AERO 25-21

- 240V
- Power 1400W
- Dry capacity: 25ltrs
- Wet capacity: 14ltrs
- Working noise: 69
- Auto stop/start
- Air Flow: 3600 l/m
- Hose length: 2.5m
- Weight: 5.9kg

REDUCED!

CARRY CASE

NILFISK ALTO

Specification: Power input: 1400W. Voltage: 240V/110V. Blade size/bore 2.16/30mm. Max cut @90°/45°: 60x270mm/60mm. Bevel Capacity: 48°. Weight: 15kg. Blade speed: 5,000rpm

£99.95 INC VAT
£85.06 EXC VAT
ALT AER02521

TIGER 2000S

- Plastic body for lighter weight
- Induction-type motor
- Break-proof water tank
- Leather honing wheel

NEW

CARRY CASE

BEST SELLER

Scheppach

Specification: Power input: 1400W. Voltage: 240V/110V. Blade size/bore 2.16/30mm. Max cut @90°/45°: 60x270mm/60mm. Bevel Capacity: 48°. Weight: 15kg. Blade speed: 5,000rpm

£99.95 INC VAT
£85.06 EXC VAT
SCH TIG2000S

DW5520K PLUNGE SAW + RAIL

- 18V combi hammer & 18V impact driver
- 2 x tools + 3 x batteries
- 2 x 2.6amp Nano + 1 x 2.6amp Ni-Mh batteries
- Ideal drilling & fixing pack
- All fits in one case
- 40 min charger

NEW

CARRY CASE

BEST SELLER

DEWALT

Specification: Power input: 1800W. Voltage: 240V/110V. Blade size/bore 2.16/30mm. Max cut @90°/45°: 60x270mm/60mm. Bevel Capacity: 48°. Weight: 15kg. Blade speed: 5,000rpm

£329.95 INC VAT
£280.81 EXC VAT
DEW DW5520K

GCM85 SLIDING MITRE SAW WITH LASER

- Compact and lightweight (only 15 kg) for convenient transport, even to the top floors of buildings
- Powerful 1400 W motor for fast work progress
- Cutting widths up to 230 mm, cutting depths up to 60 mm
- Laser and light for easy, precise and convenient working
- Mitre angles up to 58° for all different kinds of applications
- Excellent dust extraction for a clean workplace
- Groove cuts can be performed
- Machine handle with softgrip for convenient handling
- High-quality, milled angle scales for a long lifetime
- Spindle lock for easy saw blade changes

NEW

WITH LASER

BOSCH

Specification: Power input: 1400W. Voltage: 240V/110V. Blade size/bore 2.16/30mm. Max cut @90°/45°: 60x270mm/60mm. Bevel Capacity: 48°. Weight: 15kg. Blade speed: 5,000rpm

£259.95 INC VAT
£221.23 EXC VAT
BSH GCM85

D777 CROSSCUT MITRE SAW

- New 1800W motor for powerful cutting in all materials.
- Dust extraction specifically designed to meet the needs of the professional user in heavy duty applications.
- Base and fence machined to meet the accuracy requirements of the most demanding applications.
- New head lock function allows the head to be fixed, restricting the traverse function for trim applications and ease of transportation.
- Integrated positive mitre stops at 15°, 22.5°, 30°, 45°, quick release mitre mechanism up to 50°.
- Sliding left hand fence with measuring scale for improved material support and management.
- Compact internal rail design for huge cutting capacity in highly transportable format.

NEW

CARRY CASE

BEST SELLER

DEWALT

Specification: Power input: 1800W. Voltage: 240V/110V. Blade size: 216mm. Max crosscut @90° 60 x 270mm. Bevel Capacity: 48°. Blade speed: 6700rpm. Weight: 13kg.

£329.95 INC VAT
£280.81 EXC VAT
DEW DW777AV

VISIT OUR SHOWROOMS AT:
73-81 HEATH ROAD • TWICKENHAM
MIDDLESEX TW1 4AW
FAX: 020 8744 1004
EMAIL: sales@dm-tools.co.uk

CARRIAGE RATES UK MAINLAND
SPEND UP TO £99 - DELIVERY £8.95
SPEND OVER £99 - DELIVERY FREE
*Orders over £99 & under 25kg next day £5 (Mon-Fri only)
Single Items over 25kg and Machine carriage P.O.A.

OPENING HOURS
Monday-Saturday 8.30am - 5.30pm
Customer Services & Showroom



FOR THE LATEST PRICES
visit the D&M 24hr website
WWW.DM-TOOLS.CO.UK

FREE DELIVERY
UK MAINLAND
ON ORDERS OVER £99
(EXCEPT AS MARKED SEE OUR RATES OF
CARRIAGE FOR MORE DETAILS)

THE UK'S No.1 BRANDED HAND, POWER TOOLS & MACHINERY EVENT

D&M 'THE TOOL SHOW '08
WWW.THETOOLSHOW.COM

KEMPTON PARK RACECOURSE
21-23 NOVEMBER 2008 • 10am-5pm (4pm Sun)
FREE ENTRANCE • **FREE** PARKING • **TOP BRANDS**
WWW.THETOOLSHOW.COM



4MM GHO 40-82C POWER PLANER

BOSCH

- 850W
- Max depth: 4mm
- Rebate: 0-24mm
- Electronic speed control
- Constant speed under load
- Chip clearance left or right
- Side fence, rebate depth guide

NEW CARRY CASE

Specification:
Power input: 850W. Voltage: 240/110V. No load speed: 13,500rpm. Blade width: 82mm. Max cutting depth: 4mm. Max rebate: 0-24mm. Weight: 3.2kg.

£169.00 INC VAT
£143.83 EXC VAT
BSH GHO 404082C

4MM D26500K POWER PLANER

DEWALT

- 1050W
- Max depth: 4mm
- Rebate: 0-25mm
- Left or right chip ejector
- Side & rebate fence
- Dust bag

BEST SELLER CARRY CASE

Specification:
Power input: 1050W. Voltage: 240/110V. No load speed: 13,500rpm. Blade width: 82mm. Max cutting depth: 4mm. Max rebate: 0-25mm. Weight: 4kg.

£149.95 INC VAT
£127.62 EXC VAT
DEW D26500K

GSE18VE2 TURBO TOUGH 18V COMBI + 18V IMPACT DRIVER BODY

BOSCH

- 3 x 3Ah Ni-Mh batteries
- 30 min charger
- 25 torque settings + 1 drilling
- New double-wound motor for outstanding overload capacity
- Built to last: 35% more durable than main competition
- Unique Dura-shield housing: fully functional after 2m drop
- Unique progressive clutch: high precision torque settings for every screw diameter

3 SUPPLIED WITH BATTERIES

Specification:
Chuck capacity: 1.5-13mm. No load speeds: 0-500, 0-2,050rpm. Impact rate: 31,000rpm. Max torque: 75Nm. Capacity: Wood 40mm, Steel 13mm, Masonry 16mm. Weight: 3.0kg.

Supplied with:
• Quick charger AL 2450 DV
• 3 x 3.0 Ah NiMH batteries
• Carrying case • Keyless chuck • Auxiliary handle

£269.00 INC VAT
£228.94 EXC VAT
BSH GSE18VE2TP

DC927KL 18V COMBI HAMMER

NEW CARRY CASE

- 18 volt
- 22 torque settings
- 3 x speed, variable & reverse
- 2 x 2amp Li-Ion Nano + 1 x 2.6amp NiMH batteries
- 40min charger
- All metal gearing

Specification:
Power input: 1050W. Voltage: 240/110V. No load speed: 13,500rpm. Blade width: 82mm. Max cutting depth: 4mm. Max rebate: 0-24mm. Weight: 3.2kg.

£379.00 INC VAT
£322.55 EXC VAT
DEW DC927KL

14V DC735KB COMBI HAMMER

NEW CARRY CASE

- 14 volt
- Compact and lightweight
- 3 x 2.6Ah Ni-Mh Batteries
- 17 torque settings
- 2 speed settings, variable & reverse
- Electronic brake
- LED work light

Specification:
Chuck capacity: 1.5-13mm. No load speeds: 0-400, 0-1,450rpm. Impact rate: 0-2,500rpm. Max torque: 40Nm. Capacity: Wood 25mm, Steel 13mm, Masonry 13mm. Weight: 2.2kg.

£199.00 INC VAT
£169.36 EXC VAT
DEW DC735KBV

BHP452RFWX 18V 2 SPEED COMBI

NEW CARRY CASE

- 1 x 18V 3amp Li-Ion Battery
- Aluminium Carry Case

Specification:
Chuck capacity: 13mm. Power output: 425W. No load speeds: 0-1,500, 0-400rpm. Blows per minute: 0-22,500, 0-6,000rpm. Torque setting: 16. Max torque: 32/20Nm. Drilling capacity: Wood 28mm, Steel 13mm, Masonry 13mm. Weight: 1.8kg.

£155.00 INC VAT
£131.91 EXC VAT
MAX BHP452 RFWX

18V BHO18 CORDLESS PLANER

NEW CARRY CASE

- 18 volt
- Max depth: 0-1.6mm
- Rebate: 0-12.5mm
- Die cast base for durability
- 3 x Ni-Cd or Li-Ion batteries
- Charger, side fence, dust bag

Specification:
Power input: 18V. No load speed: 11,000rpm. Blade width: 82mm. Max cutting depth: 0-1.6mm. Max rebate: 0-12.5mm. Weight: 3.1kg.

£209.00 INC VAT
£177.87 EXC VAT
AEG BHO18M1

36V GBH36V-LICP COMPACT SDS

BOSCH

- 36 volt
- Rotary chiselling hammer
- 3 function
- Super lightweight & compact
- Low vibration
- Ideal for overhead work!
- 2 x 1.3amp Li-Ion batteries

Specification:
Chuck type: SDS Plus. No load speeds: 0-1500rpm. Impact rate: 0-4,850bpm. Capacity: Wood 30mm, Steel 13mm, Masonry 18mm. Blow energy: 1.7J. Weight: 2.9kg.

£399.00 INC VAT
£339.57 EXC VAT
BSH GBH36VLICP

1/2IN 2000W DW625EK ROUTER

DEWALT

- 2000W
- 1/2" x 1/8" collets
- Variable speed with constant speed under load
- Soft start for greater control
- Two column precision plunge with phosphor bronze bushes
- Compact low profile design
- After many years still the No. 1 router

Specification:
Chuck capacity: 1.5-13mm. No load speeds: 0-400, 0-1,450rpm. Impact rate: 0-2,500rpm. Max torque: 40Nm. Capacity: Wood 25mm, Steel 13mm, Masonry 13mm. Weight: 2.2kg.

FREE FINE HEIGHT ADJUSTER WORTH £14.95 (DE9966)

£209.95 INC VAT
£178.68 EXC VAT
DEW D26500K

T11EK VARIABLE SPEED ROUTER

trend

BEST SELLER

Specification:
Chuck capacity: 1.5-13mm. No load speeds: 0-400, 0-1,450rpm. Impact rate: 0-2,500rpm. Max torque: 40Nm. Capacity: Wood 25mm, Steel 13mm, Masonry 13mm. Weight: 2.2kg.

£249.00 INC VAT
£211.91 EXC VAT
TRE T11EK

AIRSHIELD PRO

trend

NEW

Supplied with:
• 1 x 8lx battery
• 1 x battery charger
• 1 x pair fine filters
• 1 x clear visor overlay
• 1 x storage case

£189.95 INC VAT
£161.66 EXC VAT
TRE AIRPRO

DW718W LASER MITRE SAW

DEWALT

MAX CUT
345 X 94mm,
108 x 108mm

WITH LASER

Specification:
Power: 1600W. Voltage: 240V/110V. Blade size/bore: 305mm/30mm. Max crosscut @ 90°: 74 x 345mm. Bevel capacity: 48°. Max depth of cut: 108mm. Blade speed: 1900-3400rpm. Weight: 24.8kg.

£649.95 INC VAT
£553.13 EXC VAT
DEW 718VAV

MLS100 MITRE SAW

MAKITA

REDUCED!

Specification:
Power: 1600W. Voltage: 240V/110V. Blade size/bore: 305mm/30mm. Max crosscut @ 90°: 74 x 345mm. Bevel capacity: 48°. Max depth of cut: 108mm. Blade speed: 1900-3400rpm. Weight: 24.8kg.

£98.75 INC VAT
£84.04 EXC VAT
MAX MLS100

230V 140A TURBO ARC WELDER

DRAPER

NEW

Multi-purpose machine suitable for the semi-professional and home user.

FEATURES:
• Stepless amperage adjustment
• Thermal overload protection
• Turbo fan
• Direct fit electrode holder and earth lead
• Supplied complete with face mask, wheel kit and transport handle and combined chipping hammer/wire brush.

Specification:
Rated max. supply current: 31A
Rated eff. supply current: 12A
Output amperage range: 40 - 140A
Electrode size: 1.6 - 3.2mm
No load voltage: 48V
Dimensions: 390 x 210 x 280mm
Weight: 15kg

£89.95 INC VAT
£76.55 EXC VAT
DRA AW142AT

18 VOLT MAKITA LXT202 2 PIECE COMBI KIT

MAKITA

- Ideal for drilling & screwing
- Great saving!
- 2 x 3amp Li-Ion batteries

Includes:
• Combi (BHP4512)
• Impact Driver (BTD 1402)
• 2 x Batteries Li-Ion
• Case
• Charger

Specification:
Power input: 800W 240V/110V. Impact energy: 2.7J. Chuck type: SDS+. No load speed: 0-1,050rpm. Impact blows: 0-4050bpm. Drilling capacity: Wood: 32mm. Steel: 13mm. Masonry: 24mm. Weight: 2.6kg.

£325.00 INC VAT
£276.60 EXC VAT
MAK LXT202

800W HR2470 SDS+ COMBI HAMMER

MAKITA

NEW CARRY CASE

FREE 15x MAKITA SDS DRILL BITS + CHISEL BIT

Specification:
Power input: 800W 240V/110V. Impact energy: 2.7J. Chuck type: SDS+. No load speed: 0-1,050rpm. Impact blows: 0-4050bpm. Drilling capacity: Wood: 32mm. Steel: 13mm. Masonry: 24mm. Weight: 2.6kg.

£124.95 INC VAT
£106.34 EXC VAT
MAK HR2470

All offers subject to availability. Prices subject to change without prior notice, prices correct at time they went to press. We cannot be responsible for any mistakes. Illustrations are not binding in detail. We offer a full range of tools, these are just a few.

Ref: 060801 **020 8892 3813** WWW.DM-TOOLS.CO.UK





ON THE DESK...

So much stuff lands on our desks here at your favourite magazine's editorial office that we've decided to give you a quick sneak preview of what's around as soon as we get it. The best of these items will be earmarked for review in future issues. So feast your eyes on this month's offerings and let us know if you have any experience of the products featured...

SCREWFIX CATALOGUE 92, SUMMER 2008

MANUFACTURER: Screwfix

AVAILABLE IN THE UK FROM: Screwfix Direct

UK PRICE: Free!

Are you the only person in the UK without the latest copy of the Screwfix catalogue? If so, give them a call on 0500 414141 and they'll send you a copy so you won't miss out on their extensive range of fixings, tools and much more.



BOSCH PRO SDS-PLUS SXL DRILL BITS

MANUFACTURER: Bosch

AVAILABLE IN THE UK FROM: Stockists

UK PRICE FROM: £5.71

Designed for optimum efficiency in all hard materials, new features include: conical centring tip, wear mark indicator, solid tungsten carbide head with four-cutter geometry, specially designed cutting edge and stress-optimised flute surface and geometry. There's a complete range of hammer drill bits from 5mm to 12mm.



MAKITA SITE SMB800 14.4V COMBI DRILL

MANUFACTURER: Makita

AVAILABLE IN THE UK FROM: Screwfix Direct

UK PRICE: £119.99

Compact and lightweight cordless drill with hammer action. All metal gearing, comes with 3 x 1.3Ah Ni-Cad batteries with 1 hour charger and carry case. Two speed, 16 torque settings. Looks like a good one!



3D SQUARE

MANUFACTURER: Jevons Tool Company

AVAILABLE IN THE UK FROM: Wood Workers Workshop

UK PRICE: To be announced

Keeping it square couldn't be easier with this new 3D Square. Made from heavy gauge aluminium, it's machined to a tolerance of 0.002in along its entire 150mm (6in) length. The brain is buzzing here, working through the possibilities. We're sure you will see more of these...



3200 SERIES PONY CLAMPS

MANUFACTURER: Pony

AVAILABLE IN THE UK FROM: Wood Workers Workshop

UK PRICE: To be announced.

These are the real McCoy of spring clamps, made in the USA and mentioned here as an accompaniment to the 3D square also featured in this edition of On the desk... Beautifully made and finished, they're a must-have for any workshop.



D&M THE TOOL CATALOGUE

MANUFACTURER: D&M Tools

AVAILABLE IN THE UK FROM: D&M Tools

UK PRICE: Free!

Don't miss out on this bigger than ever tool catalogue packed with the leading brands of your favourite hand and power tools. New for 2008 are the AEG and Bosch product ranges. Get hold of your copy by giving them a call or get on line via their website (details below).



LASER SAW

MANUFACTURER: Spear and Jackson

AVAILABLE IN THE UK FROM: Stockists

UK PRICE FROM: £15.00

A new version of their popular 'Predator' hand saw, this one has the added bonus of an accurate laser embedded in the handle. We'll let you know what we think of it. Apparently it's the result of 18 months' of intensive research and development by the manufacturers, so it had better be good!



ROUTER WIZARD PRO

MANUFACTURER: Eagle Jigs, LLC

AVAILABLE IN THE UK FROM: Wood Workers Workshop

UK PRICE: To be announced

Okay, we'll resist the temptation to say "The Eagle has landed" ... This one was 'acquired' from the boot of the importer's car with those fateful words, "Hey, this looks interesting." At which point the said item was thrust into our hands with an instruction to go and play. We'll tell you about this huge router bolt-on next month.

DIARY

The Woodworker's guide to what's on in the world of woodworking educational courses

SEPTEMBER

John Boddy's Courses

6 Woodturning: Marsden Howitt

20 Woodcarving: Peter Berry

01423 322370 ext 257

www.john-boddys-fwts.co.uk

John Lloyd Courses

1-5 Finishing

8-12 Furniture making 1

01444 480388

www.johnlloydfinefurniture.co.uk

Orchard Woodturners

13 Tom Plockley

Village Hall, Milstead, Kent ME9 OSD

01622 726532

Robert Sorby Woodturning Demos

5-6 Yandles, Martock

www.yandles.co.uk

6 Peter Child, Halstead

www.peterchild.co.uk

20 Turners Retreat Open day

with Les Thorne

www.turners-retreat.co.uk

26-27 CNS Power Tools, Swansea

www.cnspowertools.co.uk

West Dean College Courses

5-7 Fine furniture making,

Part 1 - Tool tuning Tom Kealy

5-7 Woodcarving for beginners

Ted Vincent

8-12 Picture framing, all levels

John Hill

01243 811301



THE FESTIVAL OF THE TREE

This acclaimed festival at the National Arboretum, Westonbirt is on for a whole week this summer, from 18-25 August. Across the week there are the large-scale ongoing wood sculptures, international master classes, demonstrations and advice, craft and tool sales – all set against the backdrop of rare and spectacular trees in this world-famous Forestry Commission tree garden.

Over the Bank Holiday weekend, the tented Woodcraft Exhibition is home to over 150 craftsmen and women, demonstrating their unique talents and selling specialist antique and new tools alongside artisan wooden products. Guitar making, cabinet making and boat building are among the ever-popular demonstrations, and last year's international masterclasses are back by huge demand. There's also the rare chance to buy pieces of wood felled at the Arboretum to further your own skills.

The festival draws to a close on the Monday afternoon with the public auction of the mighty wooden sculptures created during the week, which raises many thousands of pounds for the Bristol-based charity Tree Aid.

The Festival of the Tree is open from 9am-5pm. Admission to the whole arboretum is £8 for adults and £3 for under 18s.

Westonbirt Arboretum is three miles south-west of Tetbury on the A433 (Tetbury to Bath Road). It is 10 miles north-east of Junction 18 of the M4, and south-east of junction 13 of the M5.

DUST SUCKER & MORE!

We thought we'd seen it all, then along came this unlikely sounding accessory for your router table. It even has a FulcrumEdge. We didn't know what that was either. So you can either Google it or wait until next month when we'll show you how it works.



Contact details of products and services mentioned in this edition of *ON THE DESK...*

Bosch

■ 0844 736 0107

■ www.boschpowertools.co.uk

Screwfix

■ 0500 414141

■ www.screwfix.com

Spear and Jackson

■ 0114 281 4242

■ www.spear-and-jackson.com

D&M Tools

■ 020 8892 3813

■ www.dm-tools.co.uk

Wood Workers Workshop

■ 01491 629 699

■ www.woodworkersworkshop.co.uk



Holz-Handwerk 2008: an altogether larger show

The bi-annual Holz-Handwerk show in Nuremberg sets a world-level benchmark for woodworking exhibitions. Andy Standing attended the 2008 show

I'm sure many of you have been to a woodworking exhibition in the UK. Perhaps you have been to the International Woodworking Exhibition held annually by *The Woodworker* at Alexandra Palace in London. Our woodworking exhibitions in England tend to be fairly modest affairs with enough to keep you entertained for a few hours. However, if you want to experience a woodworking exhibition on an altogether different scale, then you need to visit Germany. The Germans take their exhibitions very seriously and have vast exhibition centres which take literally days to walk around. The Holz-Handwerk 2008 show is a case in point.

Want to go?

For anyone with an interest in woodworking and particularly the gadgets and machinery involved in both large and small scale production this is a fascinating experience. However, make sure that you wear comfortable shoes and give yourself at least two days to get round all the exhibits as there is a huge amount to see.

FURTHER INFORMATION

Next show is 24-27 March 2010
 ■ www.holz-handwerk.de



JOINERY

Timber framed buildings are much more common on the Continent than they are here and consequently there is a lot of dedicated portable joinery machinery for on-site use. Large chain mortisers and enormous circular saws were much in evidence. There was also a sizeable air-operated assembly jig to help you hold your frames together. Large routers obviously play an important part in the process and, with the help of suitable jigs, are used to cut heavy structural joints.

▼ With timber frame being so big on the Continent air-operated assembly tables like these obviously find a ready market



EXHIBITS

Though this is basically a trade show anyone can attend and there is a huge amount to see from craft stalls selling handmade items right through to complete industrial machines. All the major manufacturers are represented with extensive stands and many demonstrations. The show occupies six halls, each one about the size of an aircraft hangar. Each hall is dedicated to a certain type of exhibit, with one entirely full of furniture hardware and fixings and another given over to computer software. Perhaps the most impressive halls were those housing the industrial CNC machinery. Amazingly all the machines were actually set up and running with full ducted dust extraction systems connected so you could stand and watch thousands of pounds worth of computerised machinery process a component in front of you.



▲ The CNC machines were impressive, although you might struggle to get one in your garden workshop

► Of course like all new technological breakthroughs, be it the internet, the mobile phone or the woodworking CNC machine – they get put to, er, creative uses. Woodwork, sexy? Seems so.

WORKSHOP MACHINERY

The workshop machinery and power tool hall had some impressive stands. Given the large amount of space most manufacturers were able to exhibit almost their entire product range. All the familiar names were there, De Walt, Makita, Bosch etc. Scheppach were showing one of their TS4020 table saws fitted with a granite table. Apparently it is lighter and more stable than cast iron and should wear just as well. It certainly looked fantastic, and was as smooth as silk, but as yet there are no firm plans to put it into production.

On the Festool stand all their new products were on show, along with a rather sophisticated Protool go-kart powered by six cordless drills. It would have been a convenient way to get around the show.

Jet had a useful-looking pillar drill with variable speed, digital readout and a laser sighting system.

Metabo were exhibiting a smart-looking table saw with an enormous dust extractor close by.



▲ This Scheppach panel saw certainly wows

CRAFT FAIR

There really is something for everyone here and for those without the need for vast pieces of machinery that can process an entire forest at the touch of a button, there are some more modest exhibits. Between two of the halls was an impressive craft fair with many exhibitors both displaying their work and also demonstrating at the same time. Carving and boxmaking are obviously popular and there were some impressive displays of creativity and craftsmanship on show. I was intrigued by a carver who spent his time creating decorative trees by carefully raising thin rolls of shavings on straight grained timber rods. It was also good to see that there were many traditional and modern wooden toys on show as well, with the innocent world of the marble run contrasting with the fearsome technology of the machinery halls.

► Box making is big with the Germans, standards are very high



▲ Technically rather impressive. Useful? Well, decorative



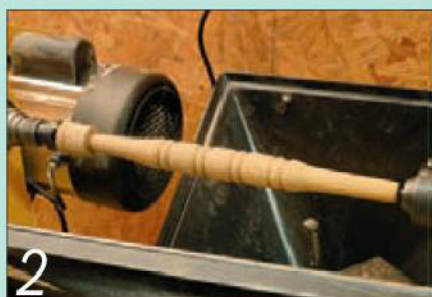
▲ A useful looking table saw from Metabo with king-size extractor





1

I used one of the existing spindles to mark the design on the turning blank



2

Oak proved a lot harder to turn than my softwood test pieces



3

Almost there - I needed a total of 16 spindles in all, so there are just two more to make!



A chair beyond repair



BY KEITH SMITH

This project started when I was asked to restore a garden chair its owner had bought in Ecuador 40 years earlier, and which had great sentimental value. Without seeing it, I said I would... with the caveat that if it was too bad I'd make a copy instead. I made the copy!

When the chair arrived, it was way beyond repair – paint covers a multitude of sins. The chair standing before me also had turned legs and spindles. I hadn't touched a lathe for years... What had I taken on?

Twenty-four hours later, after a phone call to Axminster Power Tools, I had a brand new lathe set up in the workshop. I chose the Perform CCBL, as I thought the 1100mm distance between centres could come in useful should I ever want to make stair spindles in the future. I also bought three Perform turning gouges, a 3/4in roughing gouge, a 1in oval skew and a 3/8in spindle gouge. Since then I've bought a Robert Sorby parting tool, and added a 1/4in spindle gouge I won on eBay.



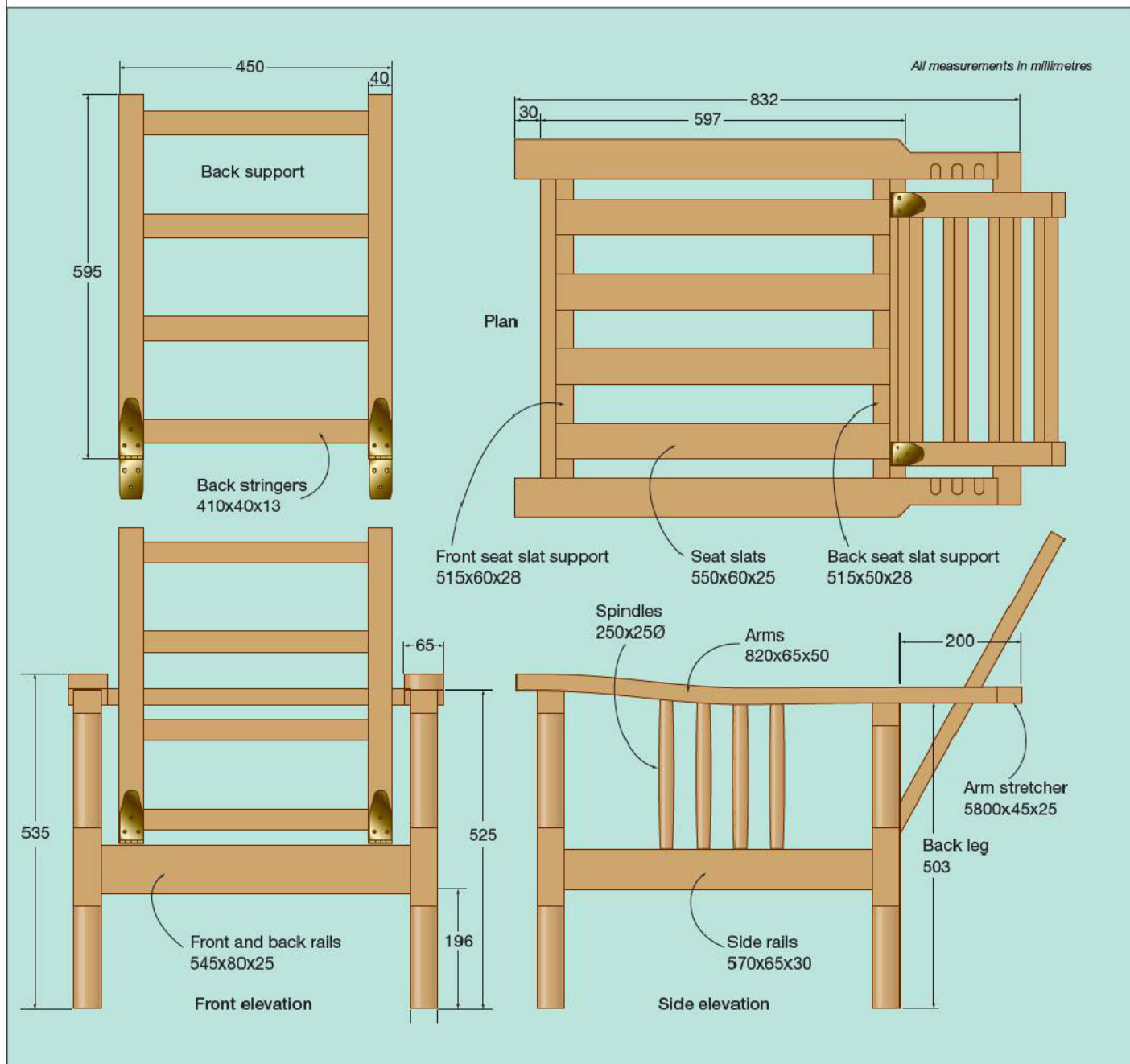
GARDEN CHAIR CUTTING LIST

All dimensions are in millimetres

Part	Qty	L	W	T
Front legs	2	525	45	45
Back legs	2	503	45	45
Front rail	1	545	80	25
Back rail	1	545	80	25
Side rails	2	570	65	30
Arms	2	820	65	50
Arms stretcher	1	580	45	25
Back support	1	525	30mm round	
Spindles	8	250	25mm round	
Seat slat support front	1	515	60	28
Seat slat support back	1	515	50	28
Seat slats	4	550	60	25
Back stiles	2	600	40	25
Back stringers	4	410	40	15



I found the skew particularly hard to master when turning the legs, but I persevered



Learning curve

I had had some experience of turning while at college, but that was nearly forty years ago! To get some much-needed practice, I started by trying to copy the small spindles in the arms of the chair in softwood, **photo 1**. After a full day of producing shavings I managed to make an acceptable spindle, and moved on to making the real thing from oak.

I then discovered it's a lot harder to turn oak that it is to turn softwood, and it took me a further four hours to produce a spindle I was happy with, **photo 2**. With practice came speed, and by the time I was on the sixteenth spindle, **photo 3**, I could produce one in 20 minutes.



Routing the joints

I used the Leigh Frame Mortise and Tenon (FMT) for this project. This is the reason the tenons shown have rounded ends. The FMT has the advantage that it requires little marking out, which speeds up the process. It also makes a snug and accurate joint – something that's particularly important on a piece of outdoor furniture. All these joints could easily be cut by hand: it will just take a little longer...

What I hadn't realised at this point was that the original spindles weren't all exactly the same length. In retrospect I'd have been better off making them all overlong and then cutting them to length at the assembly stage, but it's always easier to be wise after the event.

Before I go on, I'd better explain that I decided to make two chairs, I liked the design so much I decided to make an extra one for myself while I was at it.

Stripping down

With the turning now finished, I was confident I would be able to copy the other components of the chair. I dismantled the original so I could take measurements and understand how it had been assembled.

It was mostly dowelled together, rather crudely. However, for strength and durability, I was going to mortise and tenon all the new joints. The chair had obviously been hand-made, as it wasn't symmetrical. This meant I had to take approximate measurements and then make an accurate working drawing.

Troublesome legs

Although they're not particularly complicated, I found the legs much more difficult to turn than the spindles. I used an oval skew chisel to cut the shoulders and mark out the detail, **photo 4**, but I found this a difficult tool to master as it would occasionally dig in and cut a nasty groove into the timber. This was caused by inexperience and poor technique on my part – something I am now working on. With perseverance I eventually turned a leg I was happy with, **photo 5**. The other seven legs got a little easier, but I still haven't fully mastered the skew chisel!

Awkward arms

Apart from the turning, the arms are probably the most awkward part of the chair to make and fit. It would be far easier to make the chair with flat arms, but the slight curve adds a lot to the overall appeal of the chair.

I used one of the existing arms to mark out the shape on a length of oak, then cut out one side of this on the bandsaw and cleaned up this curved face with a spokeshave, **photo 6**.

I set a single point fence on the bandsaw, **photo 7**, and used this as a guide to cut a consistent thickness of arm along its length, **photo 8**. I used this to mark out the other arm, **photo 9**, and repeated the process. I then checked that the arms were symmetrical and adjusted them as necessary, **photo 10**.



5 With perseverance I eventually turned a leg I was happy with. Just seven more to turn now!



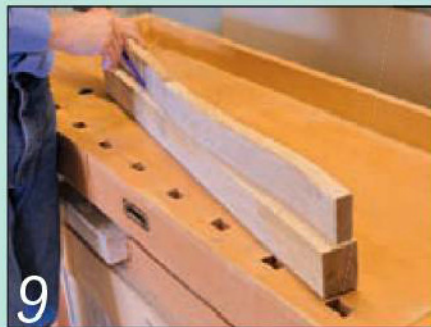
6 I used a spokeshave to clean up the bandsaw marks on the arms



7 My bandsaw does not have a point contact so I made a simple jig that I clamped to the fence



8 The point is set just in front of the blade, allowing a shape to be followed easily



9 I then used the first arm as a template to mark out the second one



10 I checked that the arms were symmetrical, and trimmed where necessary



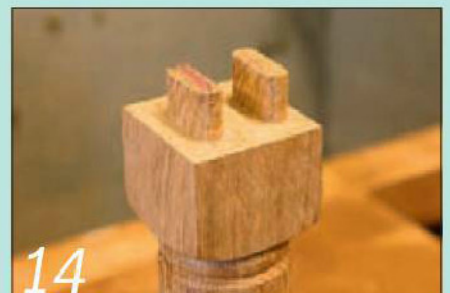
11 A single and double mortise helps to leave additional strength in the leg...



12 ...as does offsetting the mortises towards the outside of the centre section



13 I laid each arm on the side frame to mark out the shoulders of the tenons



14 Twin tenons are used to fix the legs to the arms for added strength

Adapting the hinges

I was unable to find the perfect match for the hinges used on the original chair. So I adapted the ones I could get (from a ship chandler) by cutting away the tip from one side of each hinge. The hinges will not be under a lot of strain, and being made of stainless steel they're extremely durable. As they should easily outlast the chair itself, I took the decision to house them within the seat frame for neatness. This does mean that once fitted, it will be very difficult to replace them. I fitted them in place with good-quality stainless steel screws in such a way as to allow the back to lie flat on the seat base.



I modified the hinges to match the originals by cutting off the tip of one leaf



The hinges will not show once the seat and its cushion are fitted



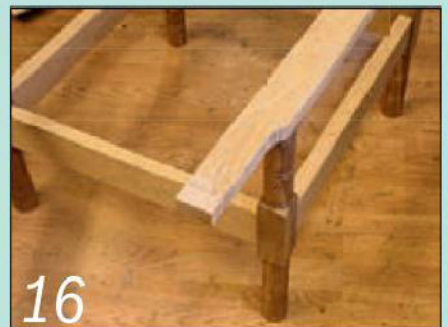
15

The basic frame dry-assembled, clearly showing the shape of the arms



17

The back face of each arm is tenoned to fit the mortise in the back rail



16

A small curved detail is cut into the back of each arm using a jigsaw



18

I used a Forstner bit to bore the round mortises for the spindles...

Mortise time

The next job is to cut the mortises for the rails in the legs. I made a long mortise for each of the side rails and double mortises for the front and rear rails, **photo 11**. In order to maintain strength in the legs, the mortises are offset outwards, **photo 12**.

I assembled the side frames dry. I then placed the arm in its finished position so I could mark the shoulder of the tenon on the leg, **photo 13**. I cut twin tenons in the top of the legs for added strength, **photo 14**, assembled the frame and checked that it would stand flat on its four legs, **photo 15**.

Lastly, I cut out the small detail at the back of the arms with a jigsaw, **photo 16**, before cutting a tenon on each arm to fit the rail, **photo 17**.

Drilled with precision

With the chair dry-assembled, I was able to mark out the position of the spindles in the side frames. I used a Forstner bit to bore the round mortises, as this produces a neat and accurate cut without the risk of the bit wandering, **photo 18**.

The chair has an adjustable back that rests against a round bar. This is housed in one of three slots cut on the top inside face of each arm. I cut these slots using the Forstner bit again, **photo 19**, and then squared them up using a chisel, **photo 20**, and tested the bar's fit

Assembling the frames

I glued up each side frame as an assembly. It was quite difficult to get all the spindles to

fit at once, and an extra pair of hands would have come in handy. Once these had dried, I was able to glue up the complete frame. As you can see from the photograph, it required a number of cramps in obscure positions to ensure the frame will dry flat and square, **photo 21**.

Adding the back

The back is a simple ladder frame, **photo 22**, made up from two stiles and four rails joined with routed mortise-and-tenon joints. The picture shows two sets – remember I'm making two chairs!

Once assembled, this will be hinged to the back rail with a pair of stainless steel hinges, but first the top edge of the back needs to be chamfered, **photo 23**.



19

...and also to bore the slots for the adjustable back support bar



20

The shoulders of the holes needed paring away with a chisel to leave three open slots



21

It's important to cramp the frame square and true at the assembly stage



22

Don't panic! I cut and jointed enough parts to make backs for two chairs



23

Use a sliding bevel to mark the chamfer at the top of the back



24

The rail that supports the slats is rebated at each end to fit over the hinges



25

The rebated support rail is glued in place, ready to receive the slats



26

The seat slats are glued into place; this requires plenty of cramps and some cunning placing



Top Tape Tip!

Make the glue clean-up easier by using clear packing tape to mask around the glue joints. This is especially important when you're using polyurethane glue, which tends to foam out of the joints



Fitting the slats

The next job was to fit the rails that support the seat slats. I rebated the back rail at each end to fit over the hinge, **photo 24**. I then rebated both rails along their top edges to house the slats and glued them in place, **photo 25**, ready to receive the seat slats, **photo 26**. I cut a small amount of 'shape' into them first to shed rainwater.

The last turning

The back is adjustable for angle and rests against a round bar that is housed in the slots cut in the arms. It's relatively long and thin, and although this represented another challenge for my newly acquired turning skills, by this time I was actually beginning to enjoy the job.

Finishing touches

I rounded over the arms using a bearing-guided round-over cutter, cleaned off any glue residue and sanded the whole chair down to 250 grit.

To prepare the chair for an outdoor life, I gave it a good soaking coat of clear wood preservative. I then applied four coats of garden furniture oil, thinning the first coat 50/50 with turpentine to help it soak into the timber. Job done!



BY IAN WILKIE

Home security is a big issue in many homes today, with every door and window having a lock... and its own key. The solution to knowing where each key is and what it does is to make a key cupboard where you can keep labelled keys safely. Then all you have to do is make sure everyone in the family keeps them where they belong



The key to success



KEY CABINET CUTTING LIST

All dimensions are in millimetres

Part	Qty	L	W	T
Carcass sides	2	320	60	15
Carcass top/bottom	2	190	60	15
Back panels	2	306	95	8
Door stiles*	2	400	30	15
Door rails*	2	260	30	15
Door frame inlay	1	2400	4	4
Door panels	4	276	40	6
Battens	2	174	20	8

*Dimension these parts prior to cutting their mitres

You will also need two brass hinges, two magnets, a knob and enough cup hooks for your key collection

MAKING THE BOX



1

Let the wood acclimatise in your workshop for a few days before dimensioning it. Remove the same amount of material from each side of the board to reduce the risk of distortion

Like most households, we've managed to acquire a plethora of keys over the years. Some are in constant use; others are needed only occasionally, and a few have no known use that any of us can remember! The time had come for a sort-out. To aid this process, a dedicated place to keep the keys was the obvious answer. The cupboard described here provided the solution. It's built from ash with a walnut inlay to give added interest. The cupboard is designed to accommodate two rows of keys on hooks and is screwed to the wall from the inside.

The perfect wood

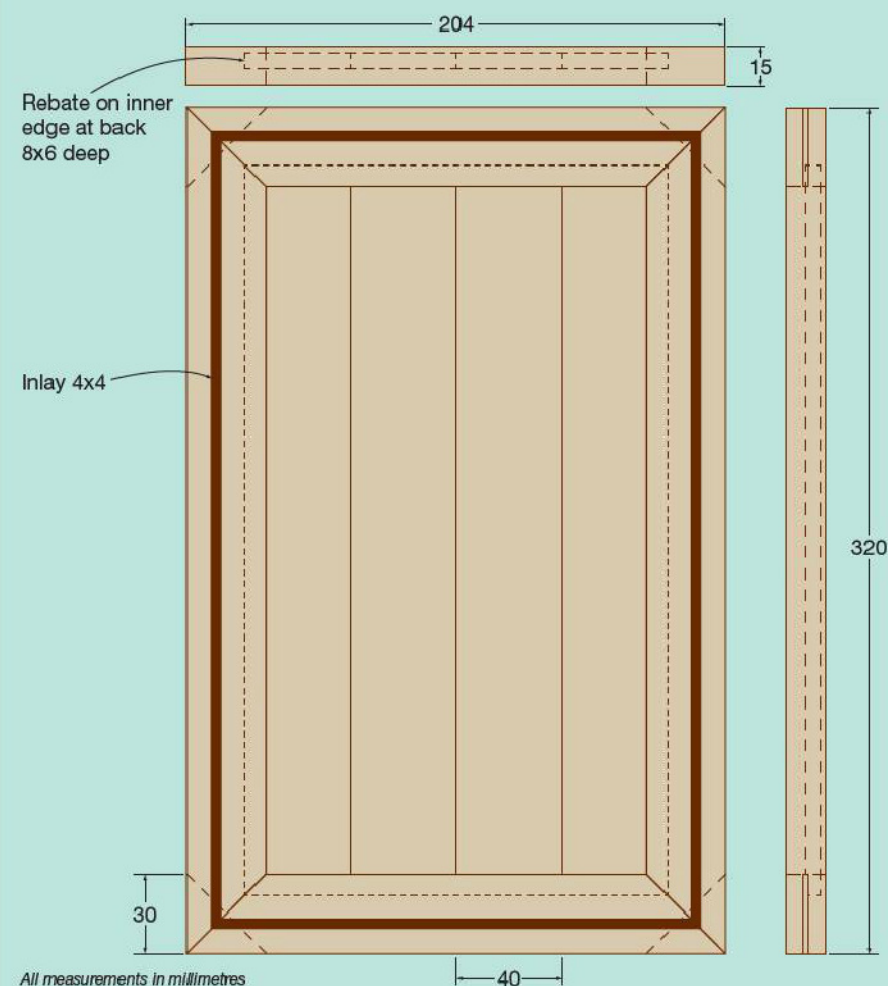
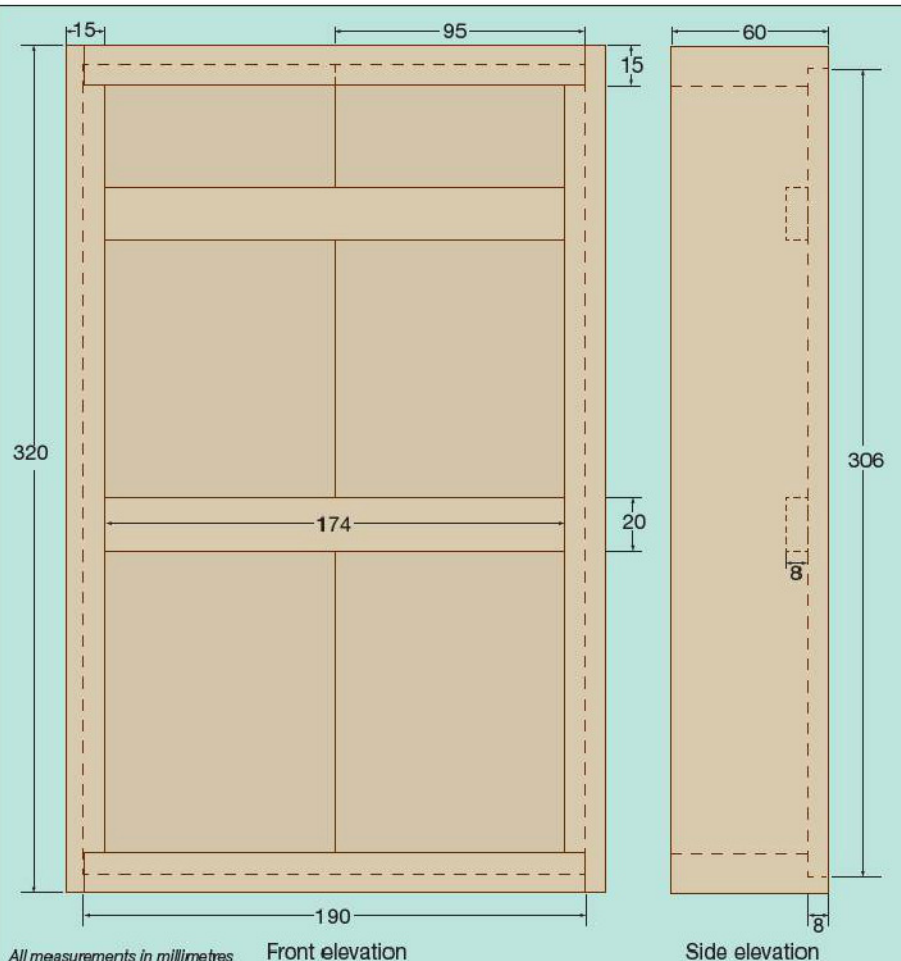
Some five years ago I purchased a quantity of ash from a local farmer. It was already two years old, and had been sticked and planked professionally and stored in a barn. The planks were cut to either 30mm (1½in) or 60mm (2½in) thick. I wouldn't usually buy large quantities of timber, as I don't have the room for under-cover storage. Besides, large planks of wood are heavy to handle. However, it's by far the most economical and satisfying way to buy wood. The timber is now well air-dried, and ash is a clean and pleasant timber to use. There will always be an element of waste involved, but that is acceptable. Remember that you'll need access to a good bandsaw and a planer thicknesser if you purchase timber this way, so you can machine it to the precise sizes you require.

FURTHER INFORMATION

- Woodpecker clamps, Rutlands
- 01629 815518
- www.rutlands.co.uk
- Magnets, e-magnets UK
- 0114 276 2264
- www.uk-magnet.com



Use an orbital sander to finish the boards, then cut them to the dimensions listed. The hand mitre saw shown will produce clean and accurate cuts



MAKING THE BOX (continued)



3 To ensure a perfect fit, true up the ends on a disc sander and double-check for square



4 Set up the router with an 8mm twin parallel-flute straight cutter and run rebates on the four pieces that make up the sides of the carcass



5 The rebates are 8mm deep x 15mm wide across each end of the long sides, and 8mm deep x 8mm wide on the back edge of all four pieces



6 Sand the parts before gluing and cramping up the carcass sides. I used a Woodpecker box clamp (£23.50 from Rutlands), which is tightened with an Allen key



7 Trim the two halves of the back panel to fit within the rebates before gluing them in position



8 Cut two battens for the key hooks to fit across the width of the box. Glue and cramp them in place. Bore pilot holes in the battens to stop the wood splitting when you screw in the cup hooks

MAKING THE DOOR FRAME



9 Cut rebates on the four frame pieces. Each is 8mm wide and 6mm deep. Set the mitre saw to 45° and cut a mitre at the end of each piece



10 Set the mitre guide on your disc sander accurately and true up each mitre



11 Check each finished component for accuracy using a mitre square



12 Rout a 4mm square groove along the front surface of each frame piece to accept the walnut inlay strip



13 Prepare the walnut inlay strips and glue them into their grooves. Trim the ends and sand them flush with the mitres. Then sand the frame surface to ensure the inlay is flush



14 Cramp the four frame pieces together. The Woodpecker Mitre Clamp (£10.50 from Rutlands) used with super-fast PVA adhesive proved excellent for this task

COMPLETING THE CABINET



15 Trim the four panels to fit into the rebates on the inside of the door frame and glue them in position one by one



16 I added a spline to reinforce the corner mitre joints. First make a saw cut at 45° across the outside of the joint...



17 ...then glue a thin piece of wood veneer into the cut. When the glue has cured, trim away the surplus wood and sand the spline flush



18 The hinges are fully recessed into one edge of the box. Mark and cut the recesses on the carcass. Drill pilot holes and screw one leaf to the box. Carefully align the other leaf of each hinge on the inside of the door and screw it on



19 Purchase or turn a small knob with a spigot. Drill a matching hole in the door frame and glue the knob in place



20 Bore a 6mm diameter hole 6mm deep into the carcass, and a matching hole into the inner face of the door frame. Glue small round magnets into the holes to keep the cupboard shut



21 Varnish or oil the box and bore two clearance holes through the back panel just above the lower batten so you can screw it

to the wall. I completed the job by making small labelled plywood tags for all the known keys, and then disposed of the orphans





BY PETER DUNSMORE

Tall Story

I was asked by a friend to build a tall bookcase to match an existing piece. A perfect copy was not required, although critical features such as height and colour were to be respected. The existing bookcase is finished in a very dark oak and the new one was treated accordingly

This bookcase is tall, standing at 2135mm (7ft). It will hold a lot of books but I've no doubt that my friend, an avid collector, will soon fill it in no time. Perhaps he'll order another...

Construction

To meet the specification, English oak was selected for this project, although other material could be used. Cherry would look warm and blend well within a contemporary setting. For economy, pine could be used as an alternative to hardwood. Whatever timber you decide

TIME-SAVING TIP!



Purchasing a rebate cutter enables these joints to be made quickly and accurately. The initial expense of the cutter is quickly justified. A single cutter is usually supplied with a range of bearings, allowing various depths of rebate to be cut by using different bearing sizes.



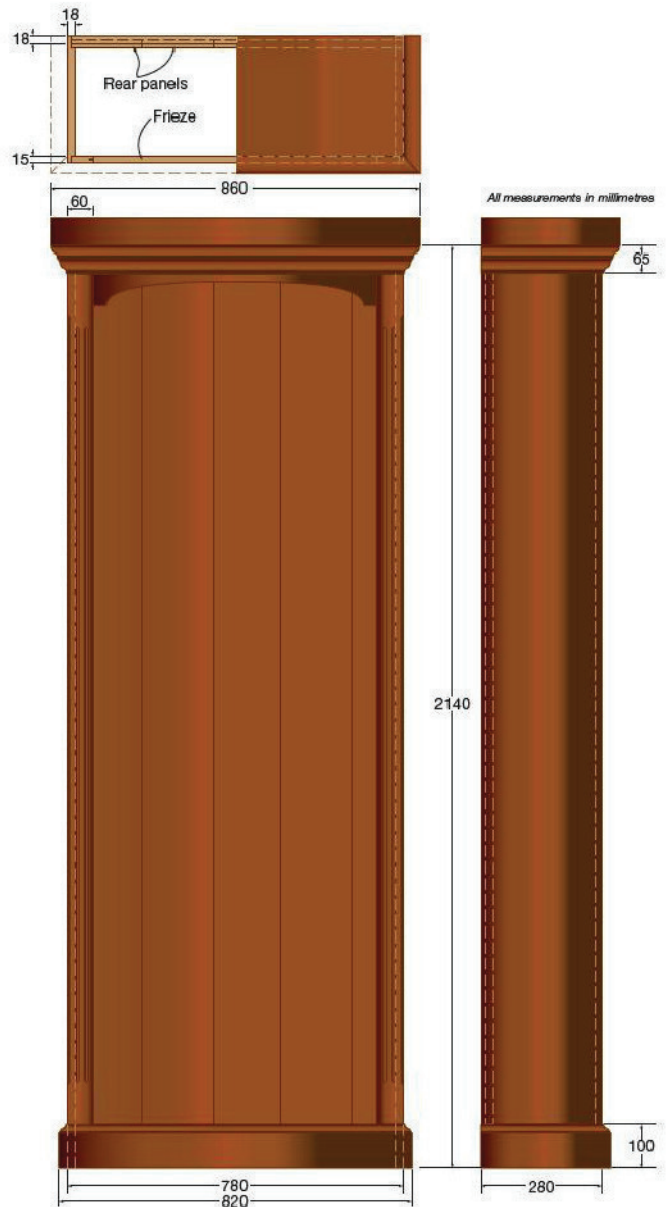
1 Mortise and tenon joints are used to assemble the front frame



Cramps are used to pull the joint together while scrap wood cauls are clamped either side of the joint to maintain a flat face



The Trend shelf support hole boring jig is quick and accurate to use



OAK BOOKCASE CUTTING LIST

All dimensions are in millimetres

Part	Qty	L	W	T
Sides	2	2140	280	18
Skirting, front	1	820	100	18
Skirting, side	2	300	100	18
Lower insert piece	1	860	100	18
Top front moulding	1	860	65	18
Base front moulding	1	860	45	18
Top side moulding	1	320	65	18
Base side moulding	1	320	45	18
Insert piece	1	860	165	18
Frieze	1	660	165	15
Pillars	2	2140	60	15
Lower frame rail	1	660	100	15
Shelves	5	720	280	12
Horizontal rear rail	1	750	60	12
Back board	12 (from random widths to fit)			
Plywood top	1	900	300	12

to use, ensure that the timber is well seasoned for a time in your home or workshop before work commences.

The face frame

Cut the timber to the dimensions shown in the cutting list and sand to a smooth finish. A water-based stain will be used to finish the piece. Smoothing the main components at an early stage and then dampening them down with some water will raise the grain. This can be sanded smooth again at this stage, reducing the amount of sanding required later after the application of the stain. It is also much easier to access these surfaces prior to assembly.

Cut a rebate along the rear outer edge of the two front side frames to receive the side pieces. Cut flutes into the face of these pieces using a cove cutter. A small pencil mark drawn on the table top will act as a guide and ensure that the flutes align. The top frieze and the lower front frame rail are mortised to rails, using a straight cutter and a bearing-guided rebate cutter for strength and simplicity, **photo 1**. The mortise is cut to a depth of 13mm (½in) in two or three passes to avoid too much strain on the cutter.

Cut the two pieces of timber for the upper and lower front frame rails to length, accounting for the additional length of material required for the tenons. Use a bearing-guided rebate cutter to cut an 11mm (¾in) tenon on each end. Adjust the depth of cut gradually until a sliding fit into the mortise is obtained.

Using a cardboard template as a guide, draw the curve on the



4 The rear rails fit in a rebate cut into the side pieces



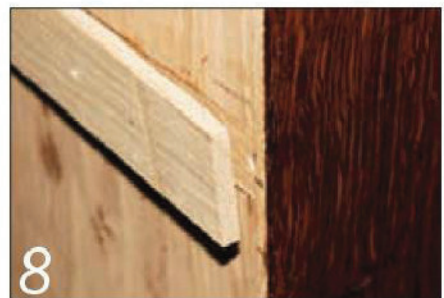
5 A support rail is fitted below the bottom shelf to prevent it from sagging



6 Set the saw blade to 45° for cutting the mitres on the various sections of moulding



7 The moulding for the rear boarding is cut on the router table using a suitable cutter



8 The boarding that forms the back is held in place by rails screwed into the central cross member

upper frieze and cut this out using a bandsaw or jigsaw. Glue the front frame components together and check that all is square by comparing the diagonals. Use clamps to pull the frame together ensuring that it remains flat, **photo 2**.

Preparing the sides

Bore the holes into which the shelf support eyes locate using either a workshop-made jig or, as here, a commercially produced item, **photo 3**. Run a rebate along the rear edge of each side ready to receive the tongue and groove back boarding and the upper and lower support pieces, **photo 4**. Glue the sides to the face frame; this is a little tricky and is easier to achieve by concentrating on one side at a time. A few fine panel pins will hold the side in place while it is cramped. Leave the heads of the pins proud so they can be removed at a later stage.

When the glue has cured, remove the pins and lay the assembly down. Use a bearing-guided cove cutter or a straight cutter and guide fence to apply a decorative edge to the front edges.

Make the upper and lower rear insert pieces and use a bearing-guided rebate cutter to profile the rebate at the ends so they fit accurately in place on the sides. Glue and screw these parts in place. After allowing the glue to cure, rout a small decorative detail along the front edges of both these pieces.

A support bracket is made from scrap timber and secured in place, **photo 5**, under the lowest shelf as this is made from thinner timber and liable to sag under the weight of the books.

Adding the mouldings

Rout the profile for the skirting along the top edge of a piece of timber using a suitable cutter. Mitre the finished moulding, **photo 6**. Secure it in place with screws driven through slotted holes made in the carcass sides.

The same cutter is used to make the mouldings around the top.

These are made up from two pieces to produce a heavier look to the top. Fix these mouldings in the same way as for the skirting.

Adding the back

The back is made up from random widths cut from 12mm (1/2in) sawn boards that have been prepared on one face only. A middle rail, 60mm (2 3/8in) wide, has a rebate cut along its top and bottom edges and is secured in place to the rear of the case with glue and screws. The boards for the back are rebated to half their depth on alternate sides and a bead is applied to the front face, **photo 7**.

The boarding is held in place by screwing three rails, **photo 8**, to the rear rails thus allowing the boards to move freely if there is a change in humidity.

Preparing the shelves

Cut the shelves to length. Run a small chamfer on the top, front edge of each shelf using a hand plane to prevent the book edges being damaged as they are slid in and out of the case. The top is made from a piece of 6mm plywood cut and pinned in place.

Finishing touches

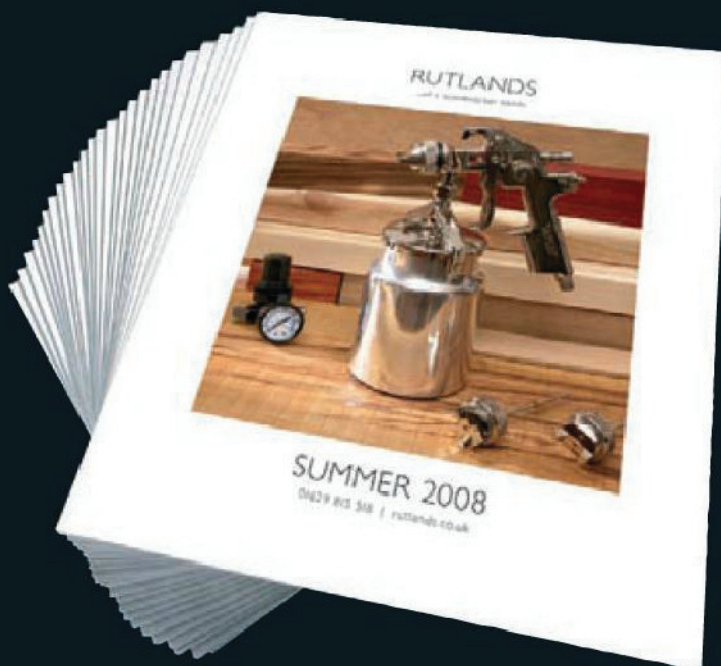
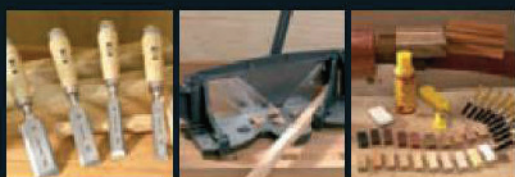
The finish required is very dark oak, and this was achieved by mixing up a strong solution of van dyke crystals with warm water into which was poured a little ammonia. This was applied liberally using a piece of cloth. Even out the stain to obtain a uniform finish and allow to dry thoroughly. Rub down any raised grain and, if necessary, re-apply the finish.

Allow to dry and apply a couple of coats of a cellulose-based sealer. Smooth with fine abrasive paper and apply a dark wax. Buff this up to a soft sheen.



Rutlands Summer 2008 Catalogue

260 pages packed with over
6000 premium performance
woodworking tools



Visit rutlands.co.uk
or phone 01629 815 518
for your **FREE** copy today!

RUTLANDS

...all a woodworker needs

ultracut | RS800 ROUTER WORKSTATION

Limited only by your imagination

- ✔ over head, hands free operation
- ✔ cuts almost any angle
- ✔ unique marking system
- ✔ takes most routers/no drilling required



ultracut
RS800
www.ultracut.co.uk

Freestanding, bench top or commercial models

Industrial grade materials used throughout for a tough and durable construction, for information on the RS800 and a large range of accessories please visit our website.

Router not included, design may vary from model shown



Try variations to the board made here - using veneers and a little ingenuity this fan-shaped board was made with just a little more effort



BY GORDON WARR



Chunky breadboard

If you can't stand factory-sliced bread and prefer to cut your own doorsteps from a plain loaf, you'll need a good-quality knife and a breadboard. Don't buy one, though. Instead, slice up some offcuts and use them to make a board of your own

This is a project that's ideal for using up those oddments and offcuts that clutter up many a workshop. Here I've detailed a simple, regular laminating process but you can vary the principle to create alternative designs such as the fan-shaped design shown above or, with a bit of turning, a round board.

The laminating process

The cutting board is made by laminating pieces of the stock face-to-face in order to obtain the maximum thickness. Although true when first put into storage, likely as not the stock will now need to be prepared in order to address any slight distortion that has occurred during prolonged storage.

The pieces are surfaced on one side, then passed through the thicknesser to bring them to a uniform thickness. The prepared pieces, in this instance beech, are glued and cramped together face-to-face to form a blank. Care must be taken not to apply too much pressure with the cramps, as this may result in the components

slipping apart. Allowing the glue to 'rest' for a few minutes before assembly will let some of the moisture be absorbed by the wood, effectively making it more glue-like and less like a lubricant!

Use a steel rule to check that the prepared faces of the beech are perfectly flat. When several pieces are cramped together there is always the danger of the glue-up becoming bowed across its width under the pressure.

After the glue has fully cured, the assembled board is removed from the cramps and a few passes through the thicknesser result in a smooth surface to both sides and a thickness of 20mm (3/4 in). The board is trimmed to length on the table saw and the corners cut to 45°.

Incidentally, a waterproof PVA glue should be used. Although labelled 'waterproof', PVA glues are not intended for use in situations where prolonged immersion is envisaged. I would not recommend that the finished board is left soaking in hot water for any length of time.

Adding the details

Finger grips are formed using a table-mounted router fitted with a cove cutter. Stops, made from offcuts and secured to the table fence with clamps, provide a positive and repeatable limit to the length of cut. The breadboard is now complete except for some cleaning up. The corners were lightly rounded using a disc sander, and a few passes with a hand plane will remove the arris. Final sanding is carried out using a combination of hand and power.

Finishing the board

It is debatable whether a kitchen item such as this should receive any kind of finish, but a light oiling enhances the colour of the wood, at least when it is new! If a piece of wood-ware that is associated with food is to be given a finish, a 'food-safe' mineral oil must be used. Don't use vegetable-based oils as they are likely to go rancid. Apply the finish with a brush or lint-free cloth, allowing it to soak in for a few minutes, then repeat if necessary and polish off with a clean cloth.



For this project an assortment of unused furniture components were recycled



The pieces were first surfaced on one side using a planer...



... and then sent through the thicknesser to bring the pieces to a uniform thickness



When gluing the parts together, allow the glue to 'rest' before assembling them



The pieces are then placed in the cramps, tightened up and checked for flatness



Now cured, the blank is passed over the planer to true up one face...



... and passed through the thicknesser to create a parallel blank 20mm thick



The board is then trimmed to length using the table saw. The guard is removed for clarity



A table-mounted router is used to form the finger grip at each end



The corners are lightly rounded using a disc sander, then finished with a hand plane



After sanding, a light oiling created the desired finish, although the timber could be left bare

The finished breadboard ready for service!

Workshop Tip!

Avoid applying excessive stress to a bearing-guided cutter in a router table. This can be achieved by setting the fence to align with the cutter, using a straightedge as a guide, and then moving it forward by the smallest amount – approximately the thickness of a sheet of paper. To check that the adjustment is correct, slide a straightedge along the fence, in line with the bearing. If the bearing remains stationary, the adjustment is correct.



Readers' Gallery

It's back! After a month's 'rest' here again are the projects that you have been making. Want to see your own here? Then go to www.getwoodworking.com and post it on the gallery. Alternatively, simply send us a CD to the usual editorial address. Make your images hi-resolution and include a few words on what your project is all about



Dog Kennel by Eddie Norman

I got the idea of making this kennel from an article by Alan Holtham. He painted his in a lovely blue color but I thought light oak stain would look great. The main structure sits on a 4x2 oak frame with the cladding adding strength. It should withstand many years of the worst of our British weather.

I bought all new wood and roof shingles at a cost of about £80.00. It took me 50 hours to make and I am really pleased with the outcome. All I've got to do now is buy a dog!



A Puzzled Money Box by Marc Holloway

This box was made from recycled Tasmanian light & dark oak parquet flooring tiles. The plan was adapted from Bruce Viney's Knight's Tomb Puzzle box and made into a money box with a difference.

It takes 16 moves to open, if you know them. Otherwise, it's very difficult to open. Like, which is the first move? In fact the shields have to be moved to operate the keys sandwiched between the oak inner & outer sides.

Some shields move going up and down, and some go side to side, but they all have to be moved before the lid can be slid off from the front.



Vienna Regulator Clock by Graham Drury

This Vienna clock came to me as just the movement, which was screwed to an old piece of plywood. I needed to research the history of Vienna regulator clocks to obtain a style to which I could follow in building a whole new cabinet from mahogany.

Children's Castle by Ashley Needham

I made this outdoor play-castle for our son a couple of years ago (and its still looking good, thus proving its longevity!). He was 7 then, is now 10 and it is still a great size for him. It was made from two sheets of 1/2" external ply for the sides and one sheet of same for the roof. It's a great addition to the garden and was made in an afternoon.



Woodturning by Ralph Harvey

I have been fascinated by the work of Hans Weissflog, especially lattices, so on my recent return to turning it seemed natural to continue with lattices.

I mainly use lemonwood to turn my work and what you see are, on the whole, ongoing practices with the resulting piece being something of a by product of my trials. The timber is tight grained which allows the turning of fine work, it is also a reasonably cheap timber so ideal to practice on.

The clock is lemonwood and ebony. It stands approximately 23cm tall and measures 14cm diameter at the base, the lattice dome measures about 90mm, the movement is 2 1/2in.

The ball & square edge vase consists of a lemonwood curved lattice ball of approximately 95mm diameter in a Padauk triangular frame which stands on three lemonwood legs.

The flat lattice box is approximately 65mm diameter by 40mm high and again is lemonwood.



NOW OPEN IN LINCOLN & BURTON UPON TRENT

Clarke DRILL PRESSES

- Tables tilt 0-45° left and right • Depth gauge • Chuck guards

MODEL	WATTS/ SPEEDS	EX VAT	INC VAT
CPS50D	250/5	£33.99	£38.94
COP101B	245/5	£49.98	£58.73
COP151B	300/5	£79.98	£93.98
COP108	370/12	£89.98	£105.73
COP201B	370/12	£99.98	£117.48
COP15F	370/12	£109.98	£129.23
COP301B	510/12	£139.98	£164.48
COP351F	510/12	£149.98	£176.23
COP401B	510/16	£169.98	£197.98
COP451F	510/16	£189.98	£223.23
COP501F	980/12	£379.98	£446.48



FROM ONLY ~~£33.99~~ EX VAT ~~£39.99~~ INC VAT

Machine Mart

53 SUPERSTORES NATIONWIDE

Where Quality Costs Less

Clarke 6" BELT/9" DISC SANDER
CSE-9C • Includes stand • 1 Hp/230w/1 ph motor

SLASHED ONLY
£139.99 EX VAT
£164.99 INC VAT
WAS £176.23 INC VAT

4" BELT/6" DISC SANDER
CS4-6C

- Dust extraction facility
- 4" x 36" belt tills & discs 0-90°
- 220mm x 155mm table, tills 0-90°
- 440w, 230v motor

ONLY ~~£59.99~~ EX VAT ~~£69.99~~ INC VAT

Clarke ROLLER BALL STAND

- Allows feeding on from any direction
- Rollers fitted with ball bearings for easy action
- Large non-slip feet for stability
- Heavy duty

Fast easy swivel head

ONLY ~~£27.99~~ EX VAT ~~£32.99~~ INC VAT

Clarke ROUTERS

BOSCH Power Tools
DIY # PRO

MODEL	MOTOR (W)	PLUNGE (MM)	EX VAT	INC VAT
Bosch POF1100AE	2100	0-55	£54.99	£64.61
Clarke CRZ#	2100	0-60	£79.98	£93.98
Ryobi ER12100#	2100	0-60	£109.98	£129.23
Freud FT220VCE#	1900	0-67	£179.98	£211.48

FROM ONLY ~~£54.99~~ EX VAT ~~£64.61~~ INC VAT

RYOBI ROUTER AND TABLE KIT

ERT-1150VN ROUTER

- 1150w, 230v • 1400-3150rpm
- Plunge depth 60mm
- 8 assorted cutters.

ART-03 ROUTER TABLE

- Dims. With extensions 355x1010mm
- Die-cast aluminium table & rear fence.
- Mitre gauge

ONLY ~~£109.99~~ EX VAT ~~£129.99~~ INC VAT

Clarke ROUTER TABLE

Router not included

ONLY ~~£35.99~~ EX VAT ~~£42.99~~ INC VAT

- Converts your router into a stationary router table
- Suitable for most routers (up to 155mm dia. Base plate)

CRT-1

Clarke DISC SANDER

CDS-300

ONLY ~~£79.99~~ EX VAT ~~£93.99~~ INC VAT

- Fine finishing, accurate sanding & shaping • 750w input power • Disc Dia. 305mm • 45° tilting table • Dust extraction facility

Clarke AIRLESS SPRAY GUN

FROM ONLY ~~£12.99~~ EX VAT ~~£15.99~~ INC VAT

- Ideal for fast easy paint spraying on fences, sheds, garden ornaments etc.

MODEL	DELIVERY	WATTS	EX VAT	INC VAT
Clarke CAS45	200g/min	45w	£12.99	£15.26
W140P	220g/min	100w	£29.98	£36.23
W180P	270g/min	120w	£39.98	£48.98

RYOBI CORDLESS DRILL/DRIVERS

BOSCH

FROM ONLY ~~£26.99~~ EX VAT ~~£31.99~~ INC VAT

- Small compact size
- Power work light

MODEL	VOLTS	BATTS	EX VAT	INC VAT
CDI80	18v	1	£28.99	£31.71
CD240	24v	1	£29.98	£36.23
Bosch PSR18	18v	1	£54.99	£64.61
Ryobi GMD1442	14.4v	3	£79.98	£93.98

WOODSTAR SHAPER/ROUTER

BS52

- Ideal for home woodworkers • 1500w motor
- 11500-24000rpm • 0-40mm spindle height
- Cast iron table size 610x360mm

ONLY ~~£139.99~~ EX VAT ~~£164.99~~ INC VAT

Clarke ORBITAL SANDERS

BOSCH

B04553

FROM ONLY ~~£17.99~~ EX VAT ~~£21.99~~ INC VAT

- Includes pack of 6 sanding sheets
- *Professional #DIY

MODEL	POWER (W)	NO LOAD SPEED	EX VAT	INC VAT
Clarke CROS1#	420	4000-11000	£17.99	£21.14
Makita B04553	160	14000	£44.99	£52.86
Bosch PEX400#	400	9000-26000	£54.99	£64.61

Clarke BELT SANDERS

Makita **BOSCH Power Tools**

FROM ONLY ~~£24.99~~ EX VAT ~~£29.99~~ INC VAT

- All models complete with dust bag

MODEL	WATT	M/MIN	EX VAT	INC VAT
Clarke BS1	900w	380	£24.99	£29.36
Bosch PBS7A	600w	250	£48.98	£58.73
Clarke CBS2	1200w	420	£69.98	£70.48
Makita 9911#	650w	75-270	£82.99	£97.61

Clarke COMPOUND MITRE SAWS

- For wood, plastic & light alloys
- All saws feature TCT blade

Makita

FROM ONLY ~~£59.99~~ EX VAT ~~£70.99~~ INC VAT

MODEL	BLADE (MM)	CUT DEPTH	EX VAT	INC VAT
Clarke CMS251	250	70mm	£69.98	£70.48
Makita LS1040	255	90.5mm	£154.99	£182.11

Clarke NAIL/STAPLER AIR COMPRESSOR KIT

- 1.25Hp with pressure regulator
- Air disp. 4.5cfm
- Ideal for decking, flooring and panelling etc.
- Includes starter pack of nails and staples

ONLY ~~£94.99~~ EX VAT ~~£111.99~~ INC VAT

Includes 2" nail/staple gun

Clarke STAPLER NAILER

TACWISE

FROM ONLY ~~£18.99~~ EX VAT ~~£22.99~~ INC VAT

MODEL	INPUT POWER	STAPLE SIZES	NAIL SIZE	EX VAT	INC VAT
Clarke CSE64#	750w	10-14	8-16	£18.99	£22.31
Tacwise 181EL#	1560w	10-33	10-33	£33.99	£39.94
CSN120	600w	13-30	10-33	£49.98	£58.73
Tacwise 400EL#	1500w	20-40	20-40	£84.99	£76.36
Tacwise 500EL#	1200w	20-50	20-50	£84.99	£99.98

Clarke BISCUIT JOINTERS

freud

- Best on Test - Good Woodworking Magazine

ONLY ~~£35.99~~ EX VAT ~~£41.99~~ INC VAT

REDUCED *Was £41.99 Inc VAT
REDUCED *Was £129.23 Inc VAT

MODEL	POWER (W)	CUT DEPTH	EX VAT	INC VAT
Clarke B1500#	800w	12mm	£29.98	£35.23
Clarke B1600#	600w	16mm	£48.98	£58.73
Freud JS102#	500w	20mm	£99.98	£117.48

RYOBI RANDOM ORBITAL SANDERS

- 125mm Ø base size
- Variable speed dust extraction
- 10 assorted sanding sheets included

ONLY ~~£34.99~~ EX VAT ~~£41.99~~ INC VAT

REDUCED *Was £99.86 Inc VAT

MODEL	BASE SIZE	EX VAT	INC VAT
DeWalt D26453	125mm Ø	99.98	117.48

PLASPLUGS POWER SHARPENERS

- Multi task chisel & plane sharpener
- Durable storage box

ONLY ~~£25.99~~ EX VAT ~~£29.99~~ INC VAT

Sissor, HSS Drill, Knife & Masonry sharpening

Clarke SCROLL SAW

CS816V

FROM ONLY ~~£34.99~~ EX VAT ~~£41.99~~ INC VAT

- 120w, 230v motor
- 50mm max cut thickness • 400 - 1700rpm variable speed • Air-blower removes dust from cutting area

MODEL	MOTOR	SPEED RPM	EX VAT	INC VAT
CS400B	85w	1450	£34.99	£41.11
CS16V	120w	400-1700	£59.98	£70.48

Clarke SASH CRAMP

- Two piece 915mm set
- Robust 'T'-bar style construction

ONLY ~~£17.99~~ EX VAT ~~£21.99~~ INC VAT

1830mm also available
£38.76 Inc VAT

Clarke BANDSAW WITH SANDING DISC

ONLY ~~£199.99~~ EX VAT ~~£233.99~~ INC VAT

- Ideal machine for fast and accurate cutting in both hard and softwood • Fitted with 155mm diameter abrasive disc • 375watts motor
- Cutting depth 145mm, throat depth 360mm

MODEL	SIZE	EX VAT	INC VAT
CHT374	600mm	£5.99	£7.04
CHT375	900mm	£6.99	£8.21
CHT376	1200mm	£7.99	£9.39

Clarke ROTARY TOOL KIT

CRT40

ONLY ~~£24.99~~ EX VAT ~~£29.99~~ INC VAT

Kit includes:

- Height adjustable stand with clamp • Rotary tool
- 1m flexible drive • 40x accessories/consumables

DEWALT PRO RADIAL ARM SAWS

- Input power from 1450-4000w
- Free standing
- Pre-assembled
- 4 roller bearings ensure high accuracy and durability

FROM ONLY ~~£639.99~~ EX VAT ~~£751.99~~ INC VAT

MODEL	POWER (W)	BLADE DIA.	MAX BORE	DEPTH CUT AT 90°	EX VAT	INC VAT
DW720K	1450	250/30	68mm	£839.98	£761.98	
DW721K	2000	300/30	90mm	£999.00	£1173.83	
DW728K	2200	350/30	110mm	£1599.00	£1878.83	
DW729K	4000	350/30	110mm	£1599.00	£1878.83	

Clarke CARVING CHISEL SET

- Polished spring alloy steel chisel blades
- Supplied in wooden storage case with handle

Quality Beech Handles

12 Piece Set

ONLY ~~£39.99~~ EX VAT ~~£46.99~~ INC VAT

Clarke TABLE SAWS

CTS100

FROM ONLY ~~£39.99~~ EX VAT ~~£46.99~~ INC VAT

- Moulded base
- Leg stands available for CTS10D only £18.99 Ex VAT £22.31 Inc VAT
- Includes left & right table extension

MODEL	MOTOR	BLADE	EX VAT	INC VAT
CTS800B	600w	200mm	£39.98	£46.98
CTS11	1500w	254mm	£84.99	£99.86
CTS10D	1500w	254mm	£99.98	£117.48

Features: TCT Blade

Clarke BANDSAWS

DEWALT

FROM ONLY ~~£69.99~~ EX VAT ~~£82.99~~ INC VAT

See catalogue or website for **EVEN MORE** Bandsaws

MODEL	MOUNT	MOTOR	THROAT	EX VAT	INC VAT
Clarke CBS190	Bench	350w	190mm	£68.98	£82.23
Clarke CBS250	Floor	370w	245mm	£119.98	£140.98
DeWalt DW738	Bench	749w	155mm	£199.98	£234.98

Includes Stand

Clarke DUST EXTRACTOR/CHIP COLLECTOR

CDE3EB

ONLY ~~£99.99~~ EX VAT ~~£117.99~~ INC VAT

- Helps maintain the efficiency of your tools
- 56 litre bag capacity • Powerful 750w motor
- Hose extra ONLY £19.98 Ex VAT £23.48 Inc VAT

Metabo also available

FROM ONLY ~~£89.99~~ EX VAT ~~£105.99~~ INC VAT

CLARKE PLANERS & THICKENERS

CPT200

ONLY ~~£117.99~~ EX VAT ~~£105.73~~ INC VAT

- Ideal for DIY & Hobby use
- Dual purpose, for both finishing & sizing of timber
- Max planing width 152mm

MODEL	MOTOR	MAX THICK.	EX CAPACITY	EX INC VAT	INC VAT
CP-6	1100w	•	£89.98	£117.48	£105.73
CP1600	1250w	120mm	£139.98	£176.23	£164.48
CP1800	1250w	120mm	£169.98	£234.98	£198.73

Clarke WOODWORKING LATHES

FROM ONLY £69.99 EX VAT £82.99 INC VAT



SEE CATALOGUE FOR ACCESSORIES

MODEL	CENTRE TO CENTRE (MM)	TURNING CAP.	TURNING SPEEDS	EX VAT	INC VAT
CWL6B	508	242mm	4	£69.98	£82.23
CWL12D	940	305mm	5	£109.98	£129.23

ORDER ONLINE

FREE CATALOGUE

OVER 400 Pages

OVER 890 NEW PRODUCTS & SLASHED PRICES

6500 PRODUCTS

GET YOUR COPY NOW!

IN-STORE - 53 Superstores Nationwide
ONLINE - www.machinemart.co.uk
CALL NOW - 0845 450 1855

Machine Mart

ORDER ONLINE

SPRING SUMMER 2008

ONLY £89.00 GREAT VALUE PRODUCTS & SLASHED PRICES

Clarke WOODWORKING LATHE

CWL20RV

Complete with robust steel stand

ONLY **£169.99 EX VAT £199.99 INC VAT**

- 10 Speed reversible head lathe
- Headstock rotates 360° & locks in 4 positions • 850mm between centres

Clarke HARDWOOD WORKBENCH

CHB 1500

- Includes guide holes and bench dogs
- 2 heavy duty vices
- Large drawer for tool storage
- Dims: LxWxH 620x1520x85mm

ONLY **£89.99 EX VAT £105.99 INC VAT**

Clarke BOLTLESS SHELVING

CS5150

- Simple boltless slot & pin locking mechanism
- Weight loading per shelf up to 150KGs
- Strong 9mm fibreboard shelves
- Quick assembly unit

FROM ONLY **£25.99 EX VAT £30.99 INC VAT**

Clarke WORKBENCH

CWB1250

- Robust wood workbench
- Extra thick, reversible plywood faced worktop
- Large lockable cabinet with storage shelves
- Tough steel drawer

ONLY **£64.99 EX VAT £76.99 INC VAT**

Earlex POWER VAC

WD1200P

- Ideal for a multitude of wet & dry cleaning tasks
- Powerful 1200 watts, 230v motor
- 13.5Ltr capacity
- Power tool dust extraction

ONLY **£67.99 EX VAT £79.99 INC VAT**

Clarke 6" BENCH GRINDER WITH SANDING BELT

CBG6SB

FROM ONLY **£25.99 EX VAT £30.99 INC VAT**

- For sanding/shaping wood, plastic & metal
- 240w • Supplied with coarse grinding wheel & Lx50x86mm, 120 grit sanding belt • Belt speed 15.5M/s
- Complete with tool rest, eye shield & wheel guard

Clarke RECIPROCATING SANDER & STAND

VRS1

- An effective way to shape & smooth the cut edges of timber & board material using high speed rotary/reciprocating sanding sleeves.
- 370w, 230v motor
- 24mm reciprocating travel
- No-Load speed 1400rpm

ONLY **£129.99 EX VAT £152.99 INC VAT**

Clarke POWER PLANERS

BOSCH Makita DeWalt

Available in red, clark grey & blue from only **£25.99 Ex VAT £30.54 Inc VAT**

MODEL	SHELF DIM (WxDxH)	CAPACITY	EX VAT	INC VAT
CS5150	800x300x1500mm	150kg	£25.99	£30.54
CS5350	1800x400x900mm	350kg	£44.99	£52.96

Clarke TABLE SAW

CONTRACTOR CTS12

ONLY **£149.99 EX VAT £176.99 INC VAT**

- Easily portable with folding legs
- Powerful 1500w motor • Dust extraction facility
- Quick release • Laser guide • 254mm TCT blade
- 30mm bore • 90°/45°/75°/50mm max depth cut

Clarke CIRCULAR SAWS

PRO CCS-2

FROM ONLY **£49.99 EX VAT £58.99 INC VAT**

MODEL	MOTOR	MAX CUT	BLADE BORE	EX VAT	INC VAT
Clarke CCS-2	1300w	90°/45° DIA.	185/20	£49.98	£58.73
Festool FS160	1300w	55/36	160/16	£64.99	£76.36
Makita SPH4K	1200w	66/46	190/30	£78.99	£89.29
Sel Classic	1600w	66/51	190/16	£78.98	£93.98

REDUCED *Was £82.23 Inc. VAT

Clarke BENCH GRINDERS

6" & 8" available with light

FROM ONLY **£14.99 EX VAT £17.99 INC VAT**

CBG8W features 8" whetstone & 6" dystone.

MODEL	DUTY WHEEL DIA.	EX VAT	INC VAT
CBG6RP	DIY 150mm	£14.99	£17.61
CBG6RZ	PRO 150mm	£19.99	£23.49
CBG6RSC	HD 150mm	£26.99	£31.71
CBG6SB#	PRO 150mm	£26.99	£30.54
CBG6RW*	HD 150mm	£28.98	£35.23
CBG6RSC	HD 200mm	£36.99	£43.46
CBG8W (wet)	HD 150°/200mm	£34.99	£41.11

With sanding belt • With wire wheel

Clarke CONTRACTORS SAW

CCS12

- Motor 1600w
- Speed 2950rpm
- Blade bore dia. 315x30mm

ONLY **£139.99 EX VAT £164.99 INC VAT**

CCS12 INCLUDES

- 795 X 400mm Extension Table
- Extension Table can be fitted on the side for crosscutting or rear (as shown) for rip cutting • Wheeled Stand

Clarke POWER PLANERS

BOSCH Makita DeWalt

FROM ONLY **£19.99 EX VAT £23.99 INC VAT**

MODEL	INPUT POWER	NO LOAD SPEED	EX VAT	INC VAT
Clarke CEP1	650w	15000rpm	£16.99	£19.96
Bosch PHO20-82	680w	19500rpm	£44.99	£52.86
Makita 1902	550w	16000rpm	£74.99	£88.11
DeWalt Q26500K-6B	1050w	13500rpm	£169.98	£199.73

Clarke SLIDING 12" MITRE SAW

WOODSTAR RYOBI

FROM ONLY **£99.99 EX VAT £117.99 INC VAT**

- Dual sliding rails
- 254mm diameter blade
- 1800w motor
- *With free table saw

MODEL	MOTOR	DIA. BLADE	EX VAT	INC VAT
Woodstar SL10d	1800w	254mm	£99.98	£117.48
Ryobi EMS2026SSL Laser	2000w	254mm	£179.98	£211.48

Clarke PORTABLE THICKENER

ONLY **£319.99 EX VAT £374.99 INC VAT**

- Max thickness capacity 130mm
- Planing depths adjustable from 0-25mm
- Powerful 1250w motor
- 8000rpm no-load speed

MODEL	MOTOR	MAX THICK. CAP.	EX VAT	INC VAT
DeWalt DW733	1800w	152mm	£319.00	£374.83

Clarke JIGSAWS

BOSCH RYOBI Makita

FROM ONLY **£24.99 EX VAT £29.99 INC VAT**

- *DIY #Professional
- Dual working heights 595mm & 775mm
- 180kg max. loading

MODEL	POWER (W)	DEPTH OF CUT (wood/steel)	EX VAT	INC VAT
Clarke CSJ2 CON800*	800	80/10mm	£24.99	£29.36
B&D KS600*	450	60mm	£24.99	£29.36
Ryobi ES 600QEO*	600	75mm	£42.99	£50.51
Makita 4329	450	65/6mm	£49.98	£58.73
Bosch GST135BC*	720	135/10mm	£134.99	£168.61

NEW

Clarke BLACK & DECKER WORK BENCHES

FROM ONLY **£17.99 EX VAT £21.99 INC VAT**

- Portable & compact
- Secure and rigid when assembled
- 180kg max. loading

MODEL	CAPACITY	EX VAT	INC VAT
Clarke CF8700	100kg	£17.99	£21.14
B&D WM536	160kg	£69.98	£70.48

RYOBI SLIDING 12" MITRE SAW

ONLY **£239.99 EX VAT £281.99 INC VAT**

- 315mm x 48 TCT blade dia. • Input power: 2400w • No. Load Speed (rpm): 4200 • Max. depth of cut: 110mm • Cross cut capacity: 300mm • Inc. TCT blade, extensions, clamps

Clarke UNIVERSAL MITRE SAW STAND

ONLY **£59.99 EX VAT £70.99 INC VAT**

- Heavy duty, durable universal bench with excellent stability up to 125kg
- Suitable for most saws
- Portable
- Dims LxWxH 116x60x614mm

SLASHED FROM ONLY **£49.99 EX VAT £58.99 INC VAT** WAS £74.99 INC VAT

Extension Arms adjust up to 1899mm for longer work pieces

Clarke CAST IRON STOVES

COTTAGER

FROM ONLY **£59.99 EX VAT £70.99 INC VAT**

Full Range Available Including Flues & companion sets

MODEL	EX VAT	INC VAT
Pot Belly - Standard	£59.98	£70.48
Pot Belly - Large	£79.98	£93.98
Pot Belly - Extra Large	£119.98	£140.98
Boxwood	£129.98	£152.73
Barrel	£149.98	£176.23
Parlour	£249.98	£293.73
Franklin	£299.98	£352.48
Cottager	£299.98	£352.48
Junior Victoria	£329.98	£387.73

Clarke HIGH OUTPUT FANS

FROM ONLY **£29.99 EX VAT £35.99 INC VAT**

- Lightweight 150w portable fan
- 3 speed control
- Robust steel tilting stand

18" Propeller

GDF18HVB

Clarke FOLDING SAW HORSES

FROM ONLY **£9.99 EX VAT £11.99 INC VAT**

- Max. loading 50kg per trestle • Pressed steel construction
- Anti-slip top surfaces

MODEL	MAX LOAD	TYPE	EX VAT	INC VAT
CSB1	100kg	Individual	£9.98	£11.73
CSB2	100kg	Pair	£17.99	£21.14

3 EASY WAYS TO BUY

IN STORE
53 SUPERSTORES NATIONWIDE

ONLINE
www.machinemart.co.uk

CALL NOW!
0845 450 1800

VISIT YOUR LOCAL SUPERSTORE

OPEN MON-FRI 8.30-6.00, SAT 8.30-5.30
Sunday Opening at Burton Upon Trent, Lincoln & Warrington

BARNESLEY Pontefract Rd, Barnsley	01226 732 297	GATESHEAD 50 Lloyds Hill Rd.	0191 493 2520	NOTTINGHAM 211 Lower Parliament St.	0115 966 1811
B'HAM GREAT BARR 4 Birmingham Rd.	0121 358 7977	GLASGOW 200 Gt Western Rd.	0141 332 9231	PETERBOROUGH 417 Lincoln Rd. Millfield	01733 311770
B'HAM HAY MILLS 1152 Coventry Rd, Hay Mills	0121 771 3433	GLOUCESTER 221A Barton St.	01452 417 948	PLYMOUTH 58-64 Embankment Rd.	01752 254060
BOLTON 1 Thyne St.	01204 365799	GRIMSBY Ellis Way	01472 354435	POOLE 137-139 Bournemouth Rd, Parkstone	01202 717913
BRADFORD 105-107 Manningham Lane	01274 390962	HULL B-10 Holderness Rd.	01482 223161	PORTSMOUTH 277-283 Copnor Rd, Copnor	023 9265 4773
BRISTOL 1-3 Church Rd, Lawrence Hill	0117 935 1060	ILFORD 746-748 Eastern Ave	0208 518 4286	PRESTON 53 Blackpool Rd.	01772 703236
BURTON UPON TRENT 12a Lichfield St.	01293 564 708	LEEDS 227-229 Kirkstall Rd.	0113 231 0400	SHEFFIELD 453 London Rd, Heeley	0114 258 0831
CARDIFF 44-46 Glyn Rd.	029 2046 5424	LEICESTER 69 Mallow Rd.	0116 261 0688	SOUTHAMPTON 516-518 Portswood Rd.	023 8055 7788
CARLISLE 95 London Rd.	01228 591666	LINCOLN Unit 5, The Palmam Centre	01522 643 036	SOUTH END 1130-1141 London Rd, Leigh on Sea	01702 483 742
CHESTER 43-45 St. James Street	01244 311258	LIVERPOOL 80-88 London Rd.	0151 709 4484	STOKE-ON-TRENT 382-396 Waterloo Rd, Hanley	01782 287321
COLCHESTER 4 North Station Rd.	01206 762831	LONDON 6 Kendal Parade, Edmontown N18	020 8803 0861	SUNDERLAND 13-15 Pylpys Rd, Garrettslow	0191 510 8773
COVENTRY Bishop St.	024 7622 4227	LONDON 503-507 Lea Bridge Rd, Leyton, E10	020 8558 8284	SWANSEA 7 Sarniet Rd, Llarsarniet	01792 792999
CROYDON 423-427 Brighton Rd, South Croydon	020 8763 0640	LONDON 100 The Highway, Docklands	020 7488 2129	SWINDON 21 Victoria Rd.	01793 491717
DARLINGTON 214 Northgate	01325 380841	MAIDSTONE 57 Upper Stone St.	01622 769 572	TWICKENHAM 83-85 Heath Rd.	020 8892 9117
DEAL (KENT) 182-186 High St.	01304 373 434	MANCHESTER 71 Manchester Rd, Altrincham	0161 941 2666	WARRINGTON Unit 3, Hawley's Trade Park	01925 630 937
DERBY Derwent St.	01332 209031	MANSLFIELD 169 Chesterfield Rd, South	01623 622160	WOLVERHAMPTON Parkfield Rd, Bilston	01902 494186
DUNDEE 24-26 Trades Lane	01382 225 140	MIDLESBROUGH Mandale Triangle, Thornaby	01642 677881	WORCESTER 48a Upper Tything	01905 723451
EDINBURGH 163-171 Pleasfield Terrace	0131 659 5919	NORWICH 282a Heigham St.	01603 766402		

Maximum call charges from a BT line are 3.4p/min to 0845 numbers, and 6.7p/min to 0870 numbers

NEXT ISSUE

The October 2008 issue is out on September 5th

Details are correct at time of going to press but are subject to change without notice



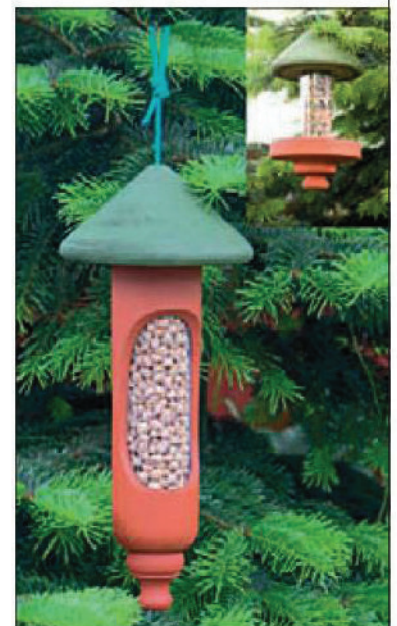
Sleigh ride *to* slumberland

Ian Taylor creates a sleigh bed with details to dazzle



KNOCK KNOCK!

Who's there? Alan Holtham... Yes, after introducing us to the spindle moulder Alan now shows us its worth with a door making project



WATCH THE BIRDIE

Bryn Edwards creates a bird feeder for our Saturday Project series

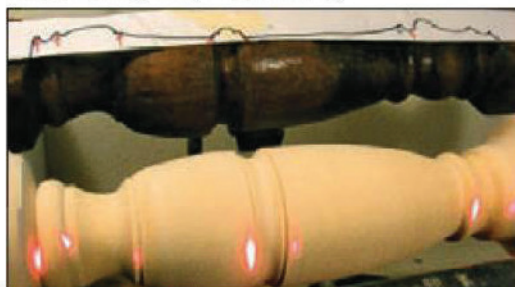


IT'S A SMALL WORLD...

... but a big test. If you enjoyed Andy's bandsaw tests this month, you'll love our next instalment: small table saws

LASER SHARP

A new series in which Lynton Wedlock introduces us to the use of lasers in woodturning. Very 21st century





NEW SERIES: HAND VS MACHINE

PLANING SMALL PARTS is the topic in the third feature of our new series that pits man against the machine in the workshop



RALPH LAUGHTON, presents the sixth part of his series about ways of making woodworking joints without any complex joint-making. This month he's looking at carcass screws



ALAN HOLTHAM explains that the spindle moulder is far more user-friendly than you might think, and claims that once you've tried one you'll wonder how you ever managed without it



KEITH SMITH returns with a new series of regular jottings from his woodwork shop, called appropriately Shop Notes. This month he tackles the task of workshop insulation



RON FOX is back too, with a timely look at what's what in looking after your router cutters



Faster sharpening

Ian Taylor takes the Trend FastTrack

There always seems to be an interesting range of sharpening aids on the market. This one from Trend is aimed at allowing you to create very precise 25° bevels on chisels and plane blades, and then to grind a 30° secondary bevel on the cutting edge. The principle is that the upper part slides smoothly and accurately on the lower component, and works a diamond sharpening plate back and forward across the blade at a precise angle. One side of the slide is angled for the 25° grind and the other for the 30° bevel.

The tool uses precise machined and anodized aluminium components to define the shapes and angles of the mating parts. The moving component is held in place with a dovetail slide mechanism, so that only side-to-side motion is possible. The mating horizontal faces of the slide have nylon inserts to reduce friction, though you are recommended to apply some light lubricating oil to the dovetail slides.

The diamond plates are held in place by rare-earth magnets fixed on the slide. These fit into recesses machined in the plastic backing of the plates. There are two grades included – coarse and fine. The plates are used dry, with no lubrication.

Using FastTrack

Start by holding the chisel or plane blade you want to sharpen bevel-up on the lower unit, against a stop at right angles to the sliding action. Work the slide back and forward with the 25° angle holding the coarse grade plate first, until you can see there's a uniform bevel. Then progress to the finer grit.

When you're satisfied with that, you can flip the slide and move on to the 30° angle to apply a secondary bevel. You don't need to exert any pressure; fast, light action gives good results. In fact, you can't exert any real downward pressure on the slide, because it only moves in a horizontal plane. But if you press the blade too hard against the plate you can stall the sliding action, in effect using the bevel as a wedge to lock things tight, so gently does it. It works well, but if your bevel is well off 25° to start, you'll find it takes a while to bring it back to spec. Replacement diamond plates are available, priced at £11.16.



£58.16

FURTHER INFORMATION

- Trend
- 01923 212497
- www.trendmachinery.co.uk



The moving slide carries the diamond plates

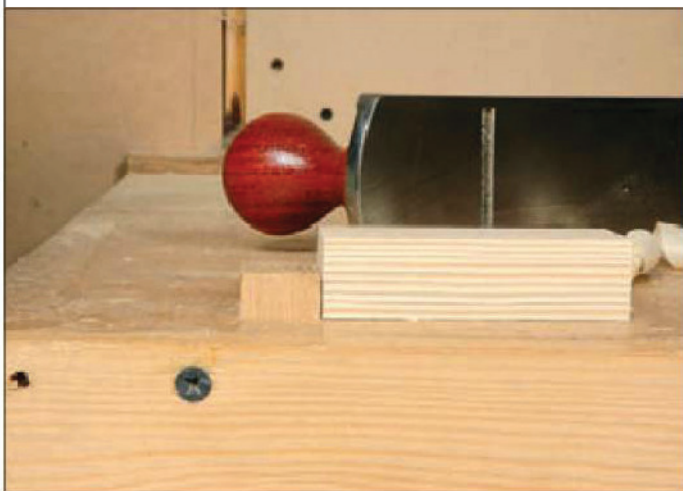


Only side-to-side movement is possible

3: Planing small parts

Regardless of the size of the project, most of us are using the same size tools. If your particular interest is in musical instrument or model making, you're likely to own a few small-scale tools. These specialised tools are one thing, but there are also lots of scaled-down versions of our familiar hand tools. With few exceptions, these tools tend to romance the idea that small jobs require small scale tools.

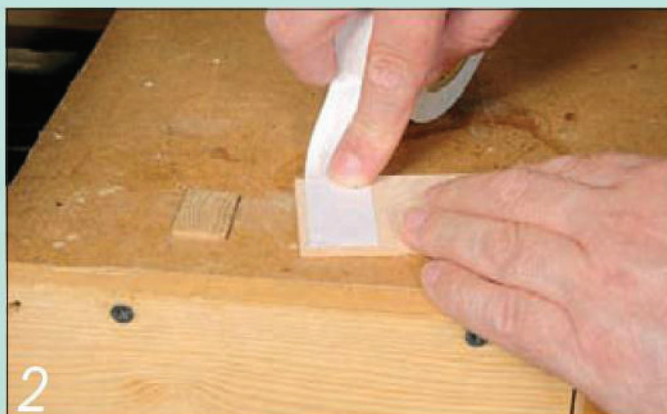
HAND PLANING SMALL PARTS



1 A bench stop is fine for holding the work if the piece you're planing is thick enough to clear it

The problem with scaled-down tools is that they may appear to be more in proportion with the job but our hands are still the same size. A lot of these tools are not made to the same high standard as their full-sized relatives. Their main problem, especially with planes, is one of mass – or, should I say, lack of it. A piece of oak 25mm (1in) long is just as hard as a piece that is 1220mm (4ft) long. It will take the same amount of effort to get the plane cutting the small piece as it will the larger. If the plane is lighter, it will require more effort to maintain momentum once the cutting edge has entered the wood.

For the purpose of this article, let's ignore any specialist tools and concentrate on the full-size items we use for our everyday



2

Double-sided tape will prevent thin material from overriding the stop



3

A guide clamp is too bulky to use as a stop for thin material



NEW SERIES: HAND VS MACHINE

necessary to reduce the thickness of the end of the stop for use when planing thin sections. It's easy to make a selection of such stops, and as they don't take up much room it's easy to store them for future use.

Tackling endgrain

Trimming the endgrain of small components can be tricky. It is always best to plane at least one end 'in the long'. After trimming to length, you are then left with just one problem surface to plane.

The easiest way to plane the endgrain on small sections is to use a bench hook or end shoot. Providing the stop is square to the edge, the work can be held in place using the finger and thumb to grip it against the stop. The other hand is free to wield the plane, resting on its side and sliding it along the hook to trim the end grain against the stop.

woodworking. The most important factor here is the set-up. The plane you're using must be sharp, as well as being adjusted in accordance with the type of wood being planed and the cut being executed.

Holding the work

Planing a piece of wood exerts pressure in two directions – downwards and horizontally away from you (most of the time, using conventional Western tools). The downforce is countered by the benchtop, so this doesn't pose a problem.

Horizontal force is usually countered by some form of bench stop. The conventional bench stop will work very well if the material is of sufficient thickness, even if the work is

completely hidden by the plane itself. On the other hand, if the material is thin, the bench stop is unlikely to be effective as the thin material is likely to lift as it is being planed and will override the stop.

A piece of double-sided tape will hold the end down adjacent to the stop and prevent it from lifting. The tape is not providing any lateral holding, as the bench stop is doing that; it is simply preventing the thin strip from lifting over the stop.

Improvising a stop

If you don't have a bench stop fitted, you're then restricted to making stops by clamping something to or across the bench to provide a stop. In this case it may be

Dealing with mitres

Trimming mitres with a plane and shooting board can also be tackled in a similar way. However, the action of the plane can make it almost impossible to hold smaller pieces without them slipping. A good trick here is to attach a length of medium-grit abrasive paper to the stop. This will make holding the piece to be mitred much easier.

Tiny workpieces

There does come a time when the part is just too small to hold and work in the traditional way. At this point it's worth considering reversing the situation. Instead of trying to push the plane over a tiny piece of wood, try holding the plane in the vice and pushing the

4 The solution is to prepare a selection of workshop-made stops in different widths and thicknesses



5 These workshop-made stops are simply clamped to the bench as required



6

Add some abrasive paper to the face of the stop to aid the grip on a bench hook or shooting board



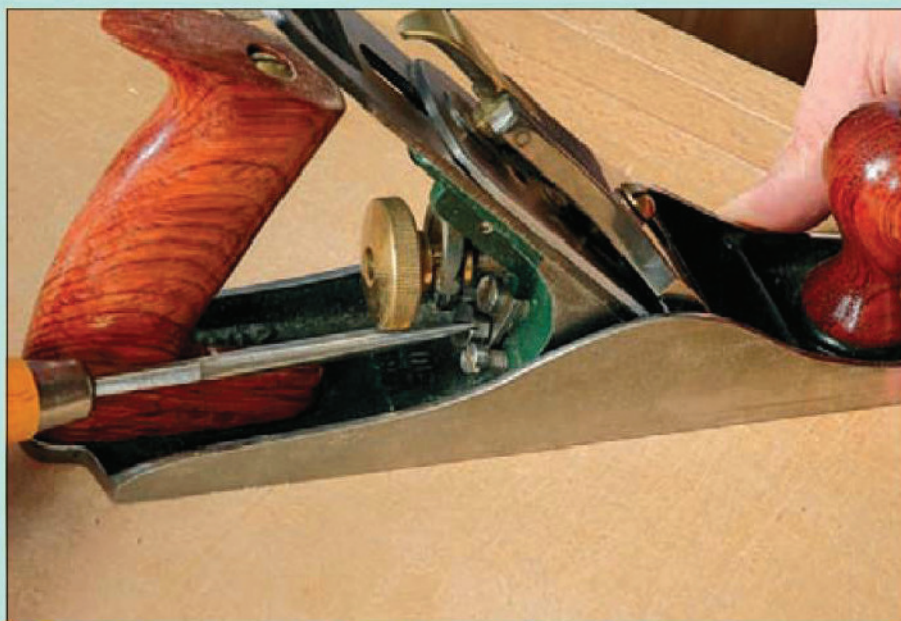
7

Planing the end grain using a bench hook with the plane sliding on its side



8

Planing a very small workpiece with the plane clamped upside down in the vice



9

Adjust the mouth to suit the job. Bedrock pattern planes can be adjusted with the iron installed. Bailey pattern planes need the iron removing to adjust the frog



10

A scribble of wax will help to reduce friction, but don't overdo it!



11

A piece set low in the vice will be easier to keep flat

wood over the sole of the plane.

If you take this course of action, make sure that you use a push stick or miniature sled to protect your fingers. Remember that a very sharp blade edge is now pointing upwards and isn't protected. Don't walk away and leave the plane installed in the vice in such a manner. It is far too easy to brush over it with an exposed arm and give yourself a nasty shave.

This method of planing is ideal when making buttons for holding the top onto the frame of a table. It allows very small amounts of material to be removed, enabling the button to be trimmed to an exact fit. It will then provide just the right amount of grip while still allowing for movement within the table top.

Plane adjustment

You don't need to use a small plane; a No.3 or 4 smoothing plane is perfect for planing

small parts. What you must do is adjust it correctly. It stands to reason that if the piece being planed is small, then the amount of material that needs to be removed will also be relatively small. For planing long grain, set the iron to a fine set with a fine to medium mouth opening. For endgrain work, tighten the setting of the mouth slightly and if necessary back off the iron slightly.

A little lubrication

A scribble of wax on the sole of the plane will help to reduce friction and will make the cutting much lighter so it's far easier to control the plane. Don't overdo this when working with small pieces of wood, as you can end up with no control at all. A bit of trial and error is called for here.

Keeping it square

When working with larger piece of wood it is easier to maintain a good flat, square

surface. On a smaller piece, it's very easy to round over the face being planed. Planing thin stuff on the bench is straightforward; it's the short pieces that can cause problems.

If you are having trouble maintaining a flat surface on your work, try holding the piece in the vice with the surface to be planed parallel to but above the surface of the jaws. Planing a piece set up in this way this restricts the movement of the plane, resulting in a flatter cut.

So long as the piece is held securely in the vice, it is also possible to use a longer plane. This is much easier to control. However, the extra mass of the bigger plane will make it almost impossible to 'feel' the cut on a small piece, so constant checking will be necessary.

For planing small parts by machine, go to page 56



John Boddy's
Fine Wood & Tool Store Ltd



- Self Service Store
- Mail Order Service
- Woodworking Courses
*woodturning, woodcarving
woodfinishing, restoration,
veneering*
1 to 1 courses by arrangement
- Certified Timber
- Solid Wood Worktops
- PTG Hardwood Flooring
- Solid Oak Door Kits
- Profiles/Architectural
Mouldings
- Oak Beams & Scantlings for
Restoration Work
- Easy access from ATM, Jct 48

Opening Times
Mon - Fri 8am - 5pm
Sat 8am - 4pm
Closed Sundays & Bank Holidays

Riverside Sawmills, Boroughbridge, North Yorkshire YO51 9LJ
Tel: 01423 322370 Fax: 01423 323810
Email: sales@john-boddys-fwts.co.uk Web: www.john-boddys-fwts.co.uk

KWO[®]
H.O. Schumacher + Söhne
HERZOG OBERKUMMERLACH

KWO Tools (UK) Ltd.
4, Strawberry Vale
Vale Road
Tonbridge Kent, TN9 1SJ
Phone: 01732 364444
Fax: 01732 361144
sales@kwo.co.uk
www.kwo.co.uk



Please contact sales to request a catalogue

DM DAMATOMACCHINE
PROFESSIONAL WOODWORKING MACHINERIES
<http://www.damatomacchine.com>

UNIVERSAL MACHINE 7 FUNCTION
"AMERICA 300/7 SUPER"

Only £ 2,645.00 Inc. VAT
(£ 2,455.00 Inc. VAT)



On request is available with 3000 mm wagon

- N°3 Independent Motors 3 Hp
- Max Planer Width: 300 mm
- Max Planer Thicknesser: 240 mm
- Spindle moulder: 3 speeds
- Tilting saw and scorer
- Aluminium sliding carriage: 1500 mm

UNIVERSAL MACHINE 5 FUNCTION
"ANDROMEDA STANDARD"

Only £ 583.00 Inc. VAT
(£ 529.00 Inc. VAT)



"PRIMA" BAND SAWS
Only £ 682.00 Inc. VAT
(£ 600.00 Inc. VAT)



- Motor 2 Hp
- Table Tilt: 0° - 45°
- Cast iron bandwheels
- Weight: 140 Kg
- Bandwheels diameter: 400mm

WOOD TURNING LATHE WITH COPIER
"TORNADO"

Only £ 336.00 Inc. VAT
(£ 299.00 Inc. VAT)



ASK A FREE CATALOGUE
WITH ALL OUR PRODUCTS !!!

UNIVERSAL MACHINE 7 FUNCTION
"DISCOVERY WAGON"

Only £ 1,530.00 Inc. VAT
(£ 1,397.00 Inc. VAT)



- Aluminium sliding carriage: 1500 mm
- Max Planer Width: 260mm
- Max Planer Thicknesser: 120 mm
- Planer knives: 3
- Spindle moulder shaft 30mm
- Squaring carriage: 345 x 610 mm

DUST EXTRACTOR "DM2"

£ 229.00 Inc. VAT
(£ 200.00 Inc. VAT)

Promotional price buying a universal machine

£ 58.00 Inc. VAT (£ 75.00 Inc. VAT)



CALL US TO RECEIVE INFORMATION ABOUT
THE CURRENT PROMOTION

Tel: +39 348 4871206
+39 0331 333433

Email: info.uk@damatomacchine.com

ALL OUR COMBINATION MACHINES HAVE CAST IRON PLANES AND ARE FULLY EQUIPPED!!

DM
Italia

Teleseller for UK: Alexandra Popovici
Mobile: +39 348 4871206

Tevere street 27, 21057 Olgiate Olona (VA) - ITALY
Tel: +39 0331 333433 - Fax: +39 0331 321712

Email: info.uk@damatomacchine.com - <http://www.damatomacchine.com>



BY ALAN HOLTHAM

Using the spindle moulder

Have you always thought that a spindle moulder is not for you? Maybe you don't understand how it works, or just think that it is too dangerous or complicated to set up. Fear not: it's far more user-friendly than you might think, and once you've tried it you'll wonder how you ever managed without it.



1

Modern spindle moulders are compact and easily adjusted

2

There's a wide range of tooling available that maximises safety



The spindle moulder is actually an incredibly versatile piece of equipment. Its possible uses far exceed straight-forward moulding work, and it does have some distinct advantages over the router. It can also be used for a huge range of joints, grooves, rebates, box combing and so on, as well as for planing curved surfaces. You can sand with it, cut out shapes and even raise panels, the bigger profiles in particular being accomplished much more efficiently than with the router.

Creating profiles

For a lot of profile work, even relatively small quantities, there is nothing to beat the spindle moulder for speed, ease of use and quality of finish. Routers may be all the rage these days, but the tooling for a moulding head is considerably cheaper than the equivalent large router bit, and it has the big advantage that you can easily re-sharpen it yourself.

Early dangers

With its rather unfortunate reputation for being dangerous, the spindle moulder has always been regarded with some degree of fear, even by more seasoned woodworking machinists. A lot of this fear is historical, in that if carelessly set, much of the early tooling was inclined to shed cutters at high speed, causing serious injuries to the operator.

Things have changed dramatically, though, and nowadays small, safe and easily adjusted machines are readily available, **photo 1**, along with a huge range of complementary tooling designed to maximize safety, **photo 2**. Spindle moulders are now as safe as any other woodworking machine, and once you have used one for real, you'll begin to appreciate its value in the workshop.

Watch the cutters

Using a spindle moulder does involve putting your hands quite close to a revolving cutterblock, and the cutters are much more exposed. The potential danger

is compounded by the fact that the high speed of rotation often makes the cutters virtually invisible, **photo 3**. A spindle moulder therefore requires constant vigilance and concentration, but if you use your common sense there should then be no more danger than with any other machine.

First principles

So what is a spindle moulder? Essentially it is just a heavy-duty spindle sticking up through a large table, onto which shaped tooling is fitted, usually in a cutterblock. The workpiece is then guided past the spindle by running it against a supporting fence, **photo 4**. But there's a bit more to the machine than that. So let's take a look at its main components.

The table

Spindle moulder tables come in all sorts of shapes and sizes, and are made of pressed steel, cast iron or aluminium. Obviously a big cast iron table is best, **photo 5**, but the expense of one can't always be justified.

My own preference (apart from cast iron) is pressed steel, as it wears better than aluminium. This may not be a consideration for other machines, but on a spindle moulder you do tend to use the same bit of the table all the time, so any wear quickly becomes more apparent.

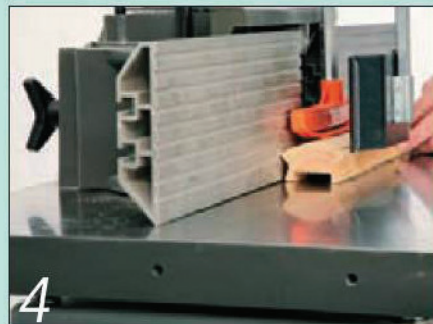
Whatever else, the table must be perfectly flat, and the area around the spindle usually has a large cut-out to accommodate tooling of different diameters. Filler rings are supplied to reduce the hole size and maximise support if you are using only small diameter blocks, **photo 6**.

The controls

The amount by which the spindle sticks out above the table is controlled by a rise-and-fall mechanism operated by a handwheel, **photo 7**. The actual projection is shown on a scale. This movement obviously determines how much, and where, the



3 The high speed of rotation makes the cutters almost invisible



4 The wood is guided against the spindle by a supporting fence



5 A big cast iron table is ideal, but pressed steel is a reasonable alternative



6 Filler rings reduce the hole size and maximise the support for the workpiece



7 The spindle height above the table is controlled by rotating a handwheel



8 The spindle is supplied with a series of spacing collars that fit over the shaft



9 Use the proper tool on the clamping nut to secure it tightly



10 The spindle moulder's motor is mounted underneath the table



11 Different speeds are obtained by a simple stepped pulley arrangement



12 Professional-quality machines usually have an electronic speed control system



13 It's important to be able to see clearly what speed has been selected

Spindle variations

Some older moulders had what is called a 'French Head'. This was just a slot through the spindle that accepted a simple straight cutter rather than a block. This system allowed you to make cutters very quickly for special orders, or where there was only a relatively short run of material, and was a really handy facility. Unfortunately it wasn't the safest of systems and is not now permitted. More professional moulders have tilting spindles which obviously increase the repertoire of the machine greatly, and sometimes the spindle itself is removable. This means you can set up a variety of tooling profiles on different spindles and swap between them without having to reset the machine each time.

cutter profile cuts. Sometimes you may only want to use a small part of a moulding cutter, so the rest can be lowered down below the table.

It is important that this adjustment is free and easy, as you will often need to make minute alterations to it. It is equally important that the rise and fall movement can be locked securely at the desired height, so check that there is a positive lock and that it works properly. If it doesn't, vibration from the cutterblock can cause the spindle to very gradually lower during a run of moulding and there can be a considerable difference between the start and end profiles.

The spindle

The spindle itself is just a plain shaft, the standard diameter nowadays being 30mm, though earlier machines measured 1½in. There is a massive array of tooling and any

make is interchangeable, so you're not tied to a particular manufacturer.

The spindle is supplied with a series of spacing collars, **photo 8**, which give you coarse adjustment for the depth of cut. The block is then held on with a special clamping washer and nut. There are all sorts of variations on the clamping method, but however it is done, use the proper tool on the nut and get it tight, **photo 9**. Keep the spindle clean, and avoid doing anything to it that might damage it, or throw up a burr, or you will find that the tooling becomes very difficult to fit.

The motor

The motor is mounted underneath the table, **photo 10**, and drives the spindle via a belt. Shaping large profiles takes up a lot of power even at high speed, so the motor must be large enough; at least 2hp is recommended.

To accommodate the variety of tooling



14 The switchgear must be mounted where you can reach it easily when you need to



15 An emergency kick stop is an even better bet when your hands are full



16 The fence and guard is fixed to the table with two locking nuts



17 Ideally the outfeed fence can be moved independently of the infeed one



18 The fence faces should move sideways to fit round the cutterblock



19 A suitable dust extraction port should be built in to the fence



20 The guard must provide firm pressure horizontally onto the fence



21 It's easier to change the tooling if the guards can be moved out of the way

diameters it's important that the machine has several speeds, and these are usually obtained by a stepped pulley arrangement, **photo 11**; expect a speed range of about 2500-10,000rpm.

More professional moulders will offer an electronic speed control system, **photo 12**, but it's very important to be able to see easily exactly which speed is selected, **photo 13**. The consequences of starting up at top speed with, say, a large diameter panel-raising cutter are scary, so a clear indication system is vital. The switchgear must be mounted where you can reach it easily, **photo 14**, and a kick stop is an even better option, **photo 15**.

The fence and guard

The fence and guard is an integral unit, which clamps on to the top of the table with two locking studs, **photo 16**. It's the movement of this fence backwards and

forwards across the table relative to the block that provides the adjustment for the depth of cut.

Cheaper machines have non-adjustable fences which are never quite as good as an adjustable fence set-up. In this latter case the outfeed fence can be moved independently of the infeed one to make allowance for any loss in timber width if you are making a full face or planing cut, **photo 17**.

It is also important that the faces of the fence can be moved sideways to close the mouth around the cutter block, **photo 18**, and can therefore provide maximum guarding and support to the stock.

Moulding produces a vast amount of swarf, so a suitable dust extraction port should be built into the fence assembly, **photo 19**. Better machines extract from underneath the table as well.

The guard itself takes many forms, but must provide pressure both down onto the

table, and horizontally against the fence, **photo 20**. Conventional guards do this with independent arms for each of these planes, and it is much easier to change the tooling if the guards hinge up out of the way, **photo 21**. In some cases it's better to make up your own sub-fences to provide extra safety and support, particularly if the work is small or difficult to support, **photo 22**.

Powered feed

The ultimate, particularly if you are doing a lot of moulding, is to use a power feed device which has motorised rollers, **photo 23**. The feed speed can be varied to suit both the material and the profile being formed. The wheel cluster is adjustable in all planes and is rubberised for maximum grip. The main advantage of the power feed is the consistency of finish, since it eliminates all those burns and marks caused by pauses when you change feeding hands!



22 You can make up your own fences for extra safety and support



23 The ultimate extra is a power feed device with motorised rollers



24 A sliding table allows accurate end grain work, including cutting tenons



25 A locking clamp and length stop are an asset if you do a lot of repetitive work



26 On curved work a ring fence replaces the standard straight one



27 The bearing ring sits on top of the block like a router cutter bearing



28 Drum sanders are usually available to fit over the spindle



29 A table extension helps stop work from wobbling about like this



30 Bolt-on extension tables are the best option...

They are also safer, not only because your hands are now nowhere near the cutters, but also because they hold the work really securely and eliminate kickback.

Accessories

A useful accessory is a sliding table, which allows accurate end-grain work and the cutting of tenons, **photo 24**. The fence on this should be adjustable to 45° for angled cuts. The sliding table on a spindle moulder always incorporates a locking clamp to hold the work down firmly on the table, and for repetitive cuts a length stop is a great asset as well, **photo 25**.

Specialist fences

Spindle moulders are just as effective on curved work, both internal and external, but for this the standard straight fence has to be removed, and a ring fence substituted in its place, **photo 26**. This is basically a ring



31 ...but a roller stand is an adequate alternative

which sits over the top of the block, at a set distance back from it to give the required depth of cut. Different rings are available to allow variation of this depth, and some sort of 'lead-in' finger should also be incorporated to help you get a safe start into the cutterblock.

A simpler version of the ring fence is a bearing ring. This sits on top of the block like a router cutter bearing, **photo 27**, and

different rings slip onto the bearing to make it easy to vary the depth of cut.

Sanding curves

For sanding curved work you cannot beat a drum sander. These are usually available to fit over the spindle, **photo 28**, and allow you to sand curved surfaces perfectly. Although this lacks the oscillating function of the true bobbin sander, it is nevertheless very handy and gives you that true 90° surface so difficult to achieve in any other way.

Table extensions

If you regularly mould long workpieces, some form of table extension is a real asset, as even minor movements have a severe effect on the quality of the cut, **photo 29**. Bolt-on extension tables are best, **photo 30**, but if these are not available, use a roller stand to give extra support, **photo 31**, and the finish will be so much better.



**THE NEW
MIDLANDS
WOODWORKING
& WOODTURNING
EXHIBITION
WINTER WOODEX**

**4TH
& 5TH
OCTOBER
2008**

**10AM TO
4PM DAILY**

**WARWICKSHIRE
EXHIBITION
CENTRE**

**FOSSE WAY, LEAMINGTON SPA
ON THE JUNCTION OF THE A425/B4455
SAT NAV CV31 1XN**

**THE ONLY MIDLANDS
SHOW WITH**

**FREE
ENTRY**



**WWW.MERIDIENNEEXHIBITIONS.CO.UK
TEL: 01926 614101**



BY KEITH SMITH



Shop notes

It's hard for me to believe that last month saw the 250th question I've answered for the magazine. When I first started, not so many years ago, we used to get more letters every month than I could cope with! However, time moves on and what with email and the introduction of so many woodworking forums, such as ours at www.getwoodworking.com, the number of letters I receive has reduced dramatically.

So now we're changing the format to one where I talk about what I've been doing in my workshop during the last few weeks, and take a look at anything – tools, materials or techniques – that I've found of interest. Although the format has changed, please feel free to write in to me at the usual *Magicalia* address if you wish to ask a question, make a comment or offer a suggestion.

What about me?

Since you ask, I work from home in a small hamlet in rural Shropshire. When we moved there about ten years ago I had hopes of becoming a full-time cabinetmaker, but I soon realised that it would be impossible to make a decent living.

Like many others in my position, I subsidise the cabinetmaking by fitting kitchens and the occasional bathroom, and of course by writing for the magazine!

Home from home

My workshop, which is behind the house, was originally a stable block, but over the years I've converted it into a relatively spacious workshop. The latest (and I hope the final) changes have seen me incorporate the remaining stable as a finishing room. I've also raised the floor in the main workshop area to add insulation and to create a level floor throughout the entire workshop. On top of that, I've added more thermal and sound insulation to the walls and completely refitted my dust

extraction system, ready for the installation of a spindle moulder and a new panel saw.

The future

Things are changing with the magazine and also for me at work. Judith, my wife, has decided to join me in the business and take on all the finishing. Although finishing is a vital part of most projects, like many woodworkers, I find it the least rewarding part of the job, and look forward to hanging up my paintbrush.

Judith is nothing if not organised; already she has her own finishing room, heated and complete with its own compressed air supply for spraying. Meanwhile, my own workshop is rapidly becoming a much more comfortable place to be. Here's what I've been up to recently.

Workshop Insulation

Now summer is upon us, insulation is probably the last thing on your mind, but this is the ideal time of year to make any changes, as equipment can be moved outside, with hopefully less risk of rust forming while the work takes place.

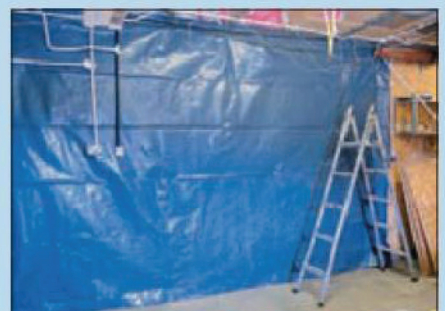
I needed to increase the sound insulation as well as the thermal insulation of the external walls, and so I chose to use rockwool universal insulation slabs from Wickes. They are more expensive than the equivalent glass fibre slabs, but are much denser, and will help to keep the noise down outside the workshop. I simply fitted the slabs tightly between the wall studs,



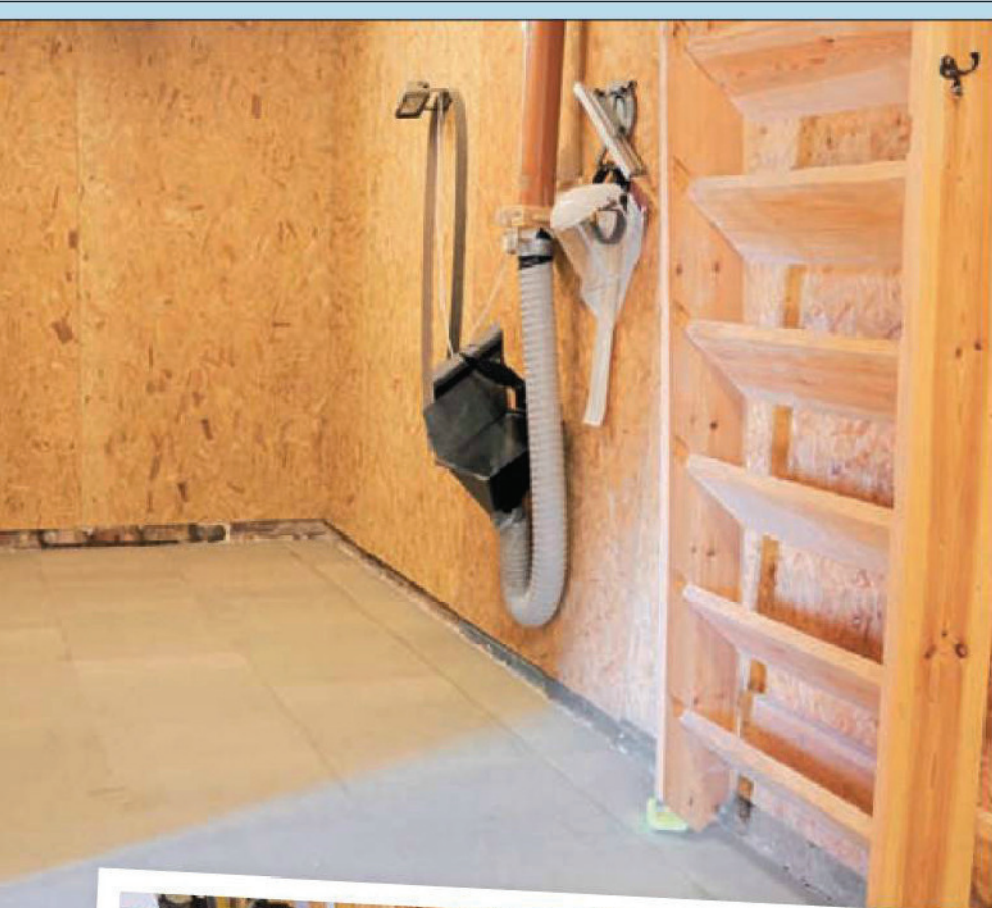
The finished floor is a vast improvement over the previous concrete floor. Now for some skirting boards...



Rockwool slab insulation tightly fitted between the studs for improved sound insulation



I fitted a polythene vapour barrier over the insulation before refitting the OSB panels



covered them with a vapour barrier, then lined the walls with OSB panels.

If your workshop is too small to lose any volume, you could consider battening the outside of the workshop walls instead, fitting insulation between the battens and then recladding the walls with a weatherproof external covering.

Fix the floor first

Walls and ceilings are generally the first candidates for insulating. But if like me you have a solid floored workshop, insulating the floor as well can make an incredible difference to the ambient temperature in the room. One advantage of raising the overall ambient temperature is that it will help prevent rust forming on all your expensive cast iron.

With floor insulation, losing headroom is perhaps the biggest consideration. This was not a problem for me as I needed to raise the floor by about 140mm to make it level with the two adjoining ex-stables. With this much space I was able to place 100 x 50mm joists at 400mm centres, fit 100mm glass fibre insulation blanket in between, put a polythene vapour barrier over that and cover the whole lot with two layers of 22mm tongued-and-grooved chipboard flooring.

The boards are glued along the edges as usual, but I have also bonded the two layers together for extra rigidity. I am soon to have a couple of very large machines delivered, hence my need for a double thickness of flooring.

The floating option

If you can't afford to lose as much headroom as me, but can spare up to about 50mm, a floating floor could be an option. The easiest way to create this is to loose-fit 25mm roofing battens round the perimeter and then cover the floor inside the battens with 25mm thick insulation board (e.g. Kingspan or Extratherm).

Fit extra lengths of batten across the floor anywhere where it may have to take a particularly heavy load. Cover the entire area with a vapour barrier to prevent warm moist air from condensing on the cold solid floor under the insulation. Finally, loose-lay 22mm chipboard flooring on top, gluing all the joints and not forgetting to leave an expansion gap around the perimeter.

NEXT MONTH I'll tell you about the changes I've made to my dust extraction system and hopefully, if it works, the design for a cyclone collector which I've been planning to build for some time.



The joists rest directly on the concrete floor, with extra noggins for support. Fibreglass insulation is loose laid and a vapour barrier fitted over that



The flooring is two layers of 22mm chipboard. I staggered the joints and glued the two layers together with PVA



The job involved moving a lot of machinery from one side of the workshop to the other as work proceeded

THE WOODWORKER SHOWS YOU HOW...



BY RALPH LAUGHTON

Cauls – a way to keep your glue-ups flat

The ability to glue up nice flat panels will increase the possibilities open to you. In the home workshop this can be tricky. You could try reverse clamping, but here's a better idea – cauls

Clamping a couple of pieces of wood across the panel to be glued-up will help but it is not possible to apply an even pressure as the clamping action of the cramps will pinch the ends together. This effectively releases pressure in the middle of the panel. However, planing a crown on the pieces of wood will mean that the pressure is applied more evenly as the cramps applying the pressure are tightened. These pieces of wood with crowns formed on one edge are referred to as cauls.

Making and using cauls

Off-cuts are trimmed to length ready to be used as cauls, **photo 1**. The cauls are made by planing a crown on one edge. This is then marked to identify the crown, **photo 2**. Applying wax to the crown of the caul will prevent it from sticking to the panel if any glue is squeezed out of the joints between the panel and the caul, **photo 3**. Use a brush to apply an even coat of glue to both mating surfaces of the boards used to make the panel, **photo 4**. The panel is cramped together and the cauls are clamped across the panel, the crown in contact with the panel to keep everything flat, **photo 5**. After the glue has cured and the panel has been removed from the cramps it is finished using a fine-set smoothing plane to give a silky smooth finish – very satisfying, **Photo 6**.



THE NORTH OF ENGLAND WOODWORKING & POWER TOOL SHOW

Hall 1 (The Flower Hall), Gt Yorkshire Showground, Harrogate
28th & 29th November 10am - 5pm, 30th November 10am-4pm

Make life easy and pre-book your tickets

- By telephone on **08700 115 007**
- or by writing to **SK Promotions Ltd.**
Box 127, Weston-super-Mare, BS23 4XT

Name:

Address:

..... Post Code:

No of adult tickets ~~£8.50~~ @ £7.50 No of cons. tickets ~~£7.50~~ @ £6.50

Cheque / P.O. to SK Promotions Ltd £

Please enclose a stamped addressed envelope.
All bookings to be received by 16th November 2008.
For show details either visit www.skpromotions.co.uk or phone 01934 420 365.
Please do not send any further information on woodworking shows organised by S.K.Promotions

(Harrogate)

*The biggest & friendliest
woodworking show
in the country*

If I had a Hammer! Hammer

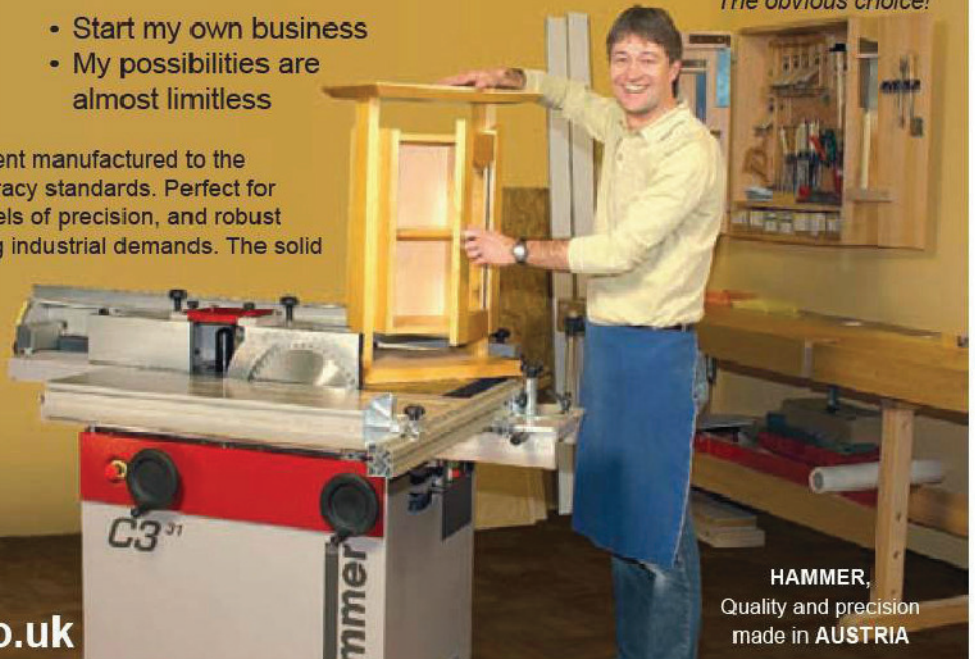
The obvious choice!

- I could build a new kitchen
- Add on another room
- Make some new furniture
- Start my own business
- My possibilities are almost limitless

Professional woodworking equipment manufactured to the industry's highest quality and accuracy standards. Perfect for applications which require high levels of precision, and robust enough to contend with challenging industrial demands. The solid cast iron tables, 4 HP motors and simple yet sophisticated design elements put Hammer machinery in a class of its own. Available in both single and three phase.



www.ukhammer.co.uk



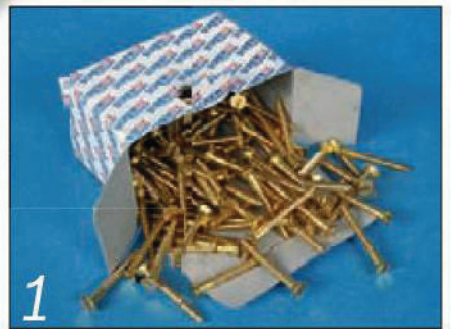
HAMMER,
Quality and precision
made in **AUSTRIA**

FELDER-GROUP UK

Headquarters/Showroom: Unit 2, Sovereign Business Park, Joplin Court Crownhill, MILTON KEYNES, MK8 0JP, Fax 01908 307000
Northern Showroom: Unit 9, Allerton Bywater Network Centre, Letchmire Road, ALLERTON BYWATER, West Yorkshire WF10 2DB
Scotland: Unit 27, James Watt Building, Scottish Enterprise, Technology Park, EAST KILBRIDE, G75 0QD



Milton Keynes: 01908 635 000
Leeds: 08450 712 224
Scotland: 08450 712 225
info@felder-group.co.uk



1
The traditional wood screw has changed very little in a couple of hundred years

6: Carcass screws



BY RALPH LAUGHTON

Driving a screw into a butt joint is the simplest of all techniques for joining components without making joints. But there's more to it than that, as the sixth feature in our ongoing series explains

JOINING WITHOUT JOINTS

Years ago, nails were the preferred fixing, especially in the building trade, mainly due to their speed of installation and their relatively low cost. Screws started to gain popularity after their increasingly widespread use in manufacturing prompted the development of power screwdrivers with special tips, and matching screws for them to drive. The two systems that became most popular were known as Phillips and Pozidriv.

Cars and plasterboard

Phillips head screws were originally invented for use in the automotive industry by Henry F. Phillips. Compared with a conventional slotted screw, the cross in the head is easier to locate with a pointed screwdriver bit. The driver doesn't slip out of the cross as it does out of a slot, and when the screw is tight the driver will simply cam out of the head.

This may be an advantage in the assembly of cars, but it wasn't the greatest thing for the woodworker. One area where Phillips screws are useful is in the fixing of

plasterboard to walls. Special drivers are designed with shields that persuade the driver bit to cam out at a given depth, securing the board tightly but not breaking the paper surface.

These matt-black screws are designed for this one job. However, they are often incorrectly used as fixings for man-made boards. The Phillips head screw is unsuitable for woodwork for many reasons, the main one being that it is designed to cam out. This is the last thing you need when driving in a fixing screw.

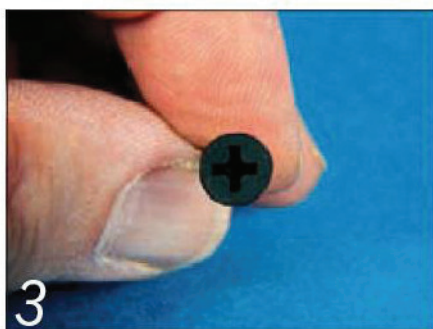
The carcass screw

The correct screw fixing for man-made boards is the carcass screw. Apart from the fact carcass screws have a matt black finish, they are nothing like plasterboard screws. Carcass screws are not designed to be driven in at speed; nor do they have Phillips heads.

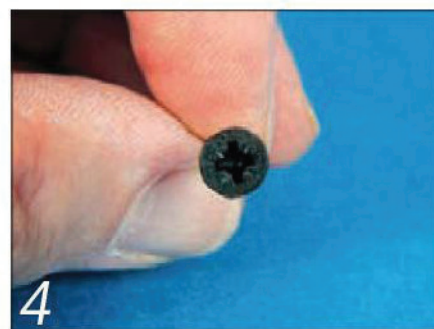
Carcass screws have a countersunk Pozidriv head and a coarse thread mounted on a relatively fine root. They are designed to be power-driven, but at comparatively



2 A carcass screw (top) compared with a plasterboard screw (bottom)



3 The Phillips head of a plasterboard screw is designed to cam out



4 The carcass screw has a Pozidriv head that's designed to grip the driver



5

Check that the torque settings on your drill/driver are correct



6

My favoured carcass screw insertion tool is a long-bladed screwdriver



7

The pilot hole drill bit approximates to the diameter of the screw root



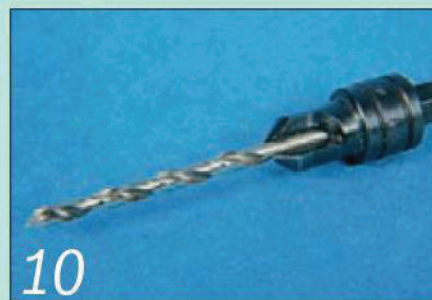
8

The clearance hole is bored by a larger bit, matching the thread diameter



9

So-called snail countersinks will also drill counterbores



10

The combination pilot/counterbore bit drills two holes at once

slow speeds. As the Pozidriv head is not designed to cam out, it is possible to over-drive the screws. This will result in one of four scenarios:

- In relatively soft material, the screw will be driven straight through the board;
- The screw will strip out the threads in the receiving board;
- The screwdriver will ream out the screw head, making it difficult to drive further or to remove easily;
- The screw will snap.

Torque talk

To negate these problems, careful adjustment of the torque setting on the driver is imperative. Select a setting that will drive the screw in firm enough to hold the joint closed and no more. There is no finite method of setting up other than trial and error. Start at the bottom end of the torque range and increase it until the screw is seated and just biting into the countersink. With experience the correct settings will be obtained by feel.

Having said all that, I tend to stay away from power-driving carcass screws. The thread is so coarse that it only takes a few turns to set them using a hand driver. The other real advantage is that you can really feel how tight they are, and can give them a controlled tweak if required.



11

The luxury of three drills speed things up in the tradesman's world

Drive with care

With Pozidriv heads, make sure you use the correct size and style of screwdriver. For carcass screws you will need a Pozidriv driver. Be selective about the driver you use. It is worth investing in a really good quality long bladed driver. The one I am using here is made by Britool. This driver will cost the same as a set of lesser quality drivers but if well looked after it will last a lifetime. The one shown in this article has been part of my tool kit for many years now and continues to provide good service.

Using carcass screws

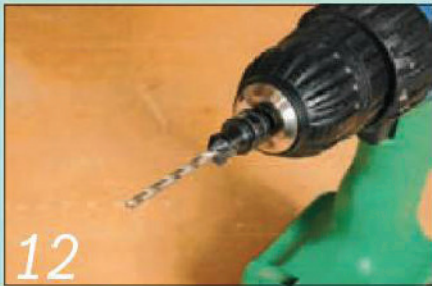
Carcass screws can be used on their own to provide a perfectly adequate fixing. Alignment can be a bit tricky, so my preference is to use them in conjunction with some kind of alignment fixing where the carcass screws give mechanical strength. If the joint is assembled without glue, the screws provide a KD (knock-down) option.

Three holes in one

The secret to a successful joint is the use of correct clearance and pilot hole size. There are many screws available today that claim they can be used with no drilling. This may be true for rough work in light density materials. It is certainly not the case when using the higher grade materials, and I include MDF (medium density fibreboard) in this category.

When a wood screw is used to join two pieces of wood together it is designed to pass through the first piece without resistance and then to bite into the second piece. The head prevents the screw from passing through the first piece. At this point in the operation, further rotation of the screw will cause the two pieces to be drawn together, forming a solid joint.

In order for this to happen effectively, the



12

In the workshop combination bits can save time, but use with care



13

Setting small pilot drill bits deep into the chuck will reduce the risk of snapping



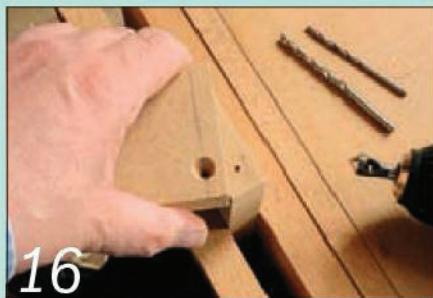
14

Bore the pilot hole first in both components, positioned on a marked line



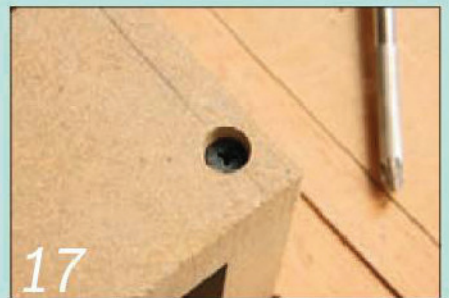
15

Followed this with the clearance hole drilled in the upper component



16

Finally drill the countersink or counterbore in the clearance hole



17

Screws can be left showing, giving the work an industrial look

correct size holes need to be bored ready to receive the screws. Additionally, a countersink or counterbore will need to be made to seat the screw head.

What size holes?

Before any holes can be bored, let's establish what size they should be. The diameter of the pilot hole should be, as near as is practically possible, the same as the root of the screw. This is the solid shaft round which the thread winds. In most cases this will taper, and it's the widest part that should be taken into account.

The clearance hole is just that; a hole that will allow the threaded section of the screw to just pass through without hindrance. A countersink also needs to be cut to allow the head to seat flush with the wood surface. Alternatively, a counterbore will allow for a cosmetic plug to be inserted in order to hide the deeply recessed screw head.

Drilling time

There are ways of boring the holes and countersink in one go, using special bits, and these can save time. However, it is very easy to snap the smaller drill bits used for the pilot hole, especially if you are using a bulky cordless driver. When I was doing this for a living, I would have three cordless drills set up with the appropriate bits fitted and my trusty 'hand-raulic' screwdriver to hand for the final screwdriving. By using a

countersink/pilot bit in one drill, you can cut this down to two drills. However you do risk snapping the pilot bit if you're not very careful.

The perfect joint

Bring the two pieces to be joined together. Mark the position of the fixings. Try to make this as regular as possible; nothing looks worse than fixings randomly placed along a joint. I usually place a fixing at each end, then one in the centre, and continue to divide the remaining space evenly until the required number of fixings is reached.

Bore the pilot hole, then the countersink and finally the clearance hole. Make sure that the clearance hole does not extend beyond the thickness of the board being

joined. Insert a carcass screw into the holes and tighten it. Now repeat the process at the other end of the joint. Check that all is square and flush. A small amount of adjustment is possible at this stage.

Carry on fixing

Now add the bored holes and countersinks for the intermediate fixings in the same manner. If the joint is to be glued, remove the end screws, disassemble the joint and apply glue to the mating surfaces.

Reassemble it and drive in the screws. The carcass screws will pull the joint together and effectively cramp it; however, cramps may be necessary to pull the assembly square.

Carcass screws can also be added to an assembly after gluing has taken place in order to add a degree of mechanical strength to a joint.

Summing up

Carcass screws are one of the most useful additions to your fixings armoury. Not only are they easy to use; they're cheap, and in some cases can even add to the look of the piece. Most of the cabinets in my workshop are constructed from man-made boards. For posh cabinets the fixing holes are plugged. Leaving them showing on the more functional stuff gives a more industrial look. Which you prefer is a matter of personal choice.



18

Alternatively the counterbore can be plugged to hide the fixing



BY RON FOX

Wash and brush up!

The novice router soon finds that the investment in cutters approaches or exceeds the cost of the original machine. So it pays to keep them tip-top. This is quite straightforward: simply keep them clean, sharp, and safely stored. This feature describes what's involved with tungsten carbide tipped (TCT) cutters, but it is equally applicable to high-speed steel (HSS) ones.

Dust and polish

A clean cutter is halfway to a sharp cutter. Any resinous or burnt deposits left on the blades will heat up when you next use the cutter and do as much to dull the cutting edge as the abrasive nature of the material you're working.

Start by removing the bearings from any bearing-guided cutters. This is partly to facilitate cleaning and partly to avoid washing away the bearing lubricant with any solvent you might use.

Brand-new cutters often have the bearings screwed on really tight. Keep an old gardening glove handy to grip cutters when removing the bearing, **photo 1**. It will save you a lot of scraped fingers.

Now brush off all the loose dust. An old toothbrush is ideal for this, **photo 2**. After

brushing, remove any resin or burnt deposits with a proprietary cutter cleaner, **photo 3**. Commercial cleaners are good, but the best product by far that I've come across is contact adhesive remover. I buy mine from the local DIY shop.

The trouble with chipboard

With the majority of your cutters, the toothbrush and cleaner will be all that's needed. However, if you've been working with chipboard or really tough hardwood, you may have more stubborn burnt-on deposits to deal with. For these, a household abrasive cleaner, used on a damp cloth, will remove anything the cutter cleaner can't shift. The one I use is called Astonish, **photo 4**, which is widely stocked by household goods stores. Some experienced workers

use spray-on oven cleaner to clean their cutters, but I find it rather messy.

Any cutter that doesn't respond to this clean-up treatment is likely to be beyond help and a candidate for the scrapheap.

Running smooth

If you are just having a cleaning session, the final step is to wipe your cutters dry and spray them with WD-40 or any similar spray. This not only helps prevent corrosion but also has a lubricating effect the next time you use the cutter, allowing it to run a little cooler and cleaner.



1

Use a work glove to grip cutters when removing bearings



2

An old toothbrush will remove loose dust and debris



3

Remove residual resin deposits with a suitable cleaner and a rag



rather than waiting until the cutter is seriously blunt before trying to restore it. The analogy is the barber and his razor; he never picks it up without giving it a few strokes on his strip.

Hone with confidence

To use the hone, wet the surface of the diamond, bed the flat face of the cutting blade on the surface and rub it back and forth, **photo 5**. Keep the plate well wetted; don't let it dry out. Only light pressure is needed – the secret is to let the diamond do the work. With the credit-card hone in particular, I find it helps to hold the hone on a block of wood or the edge of the workbench.

Repeat the process for the other edge (the most common type of cutter will have two), giving each edge the same number of strokes to preserve the balance of the cutter. With HSS cutters, a very slight burr might be formed but I have never come across this with a TCT cutter. The burr can be removed with a very careful stroke on the back of the cutting edge.

The crucial question is: how many strokes do you need to refresh the edge? The simple answer is as many as it needs. You will have to be the judge of that; you'll have other cutters – perhaps some still unused – to give you an edge for comparison.

The tricky bits

Cutters with broad blades are the easiest to start with. Straight cutters are also quite simple until you come down to a 1/4in cutter on a 1/4in shank. At this point it's impossible to lay the cutting edge flat on the hone with the shank parallel to it, **photo 6**. It's also very difficult to ensure that the very narrow flat face is bedded on the diamond plate.

You may decide at this point not to bother, and either send the cutter for resharpening or replace it. There will always be a few cutters that can't be honed. With these, content yourself with keeping the cutter clean and sprayed.

A refreshing touch

After cleaning, the next step is to 'refresh' the edges of your cutter blades, using a diamond hone. These miracle gadgets have transformed the maintenance of TCT cutters; before they arrived, it simply wasn't possible.

A range of hones is now available, as you can see from the main image. One of my current favourites is the so-called 'credit-card' hone; the other is the DMT Diafold. Both of these are double-sided: fine and coarse. The fine side is for everyday use, with the coarse side in reserve for use if your cutter is a bit blunter than usual.

Essential lubrication

Diamond hones are always used with a lubricant: never dry. However, there's conflicting advice on what to use. DMT are adamant that water, and only water, should be used. Trend market a lapping fluid, which is a petroleum distillate. I go with the flow: I use water with the DMT hone and lapping fluid with the Trend credit-card hone. I also know workers who swear by white spirit or even methylated spirit as a lubricant.

It's important to recognise that you are honing your cutters, not regrinding them. This means using the hone little and often,



4 Try a household abrasive cleaner for removing burnt-on deposits



5 For honing most cutters, hold the hone flat on a wood block



6 Honing very narrow straight cutters is much more difficult



7 With bearing-guided cutters, bed the blade flats on the hone



8 Spray the cutter with lubricant to keep it free from rust



9 The best way of cleaning the hone is to use a plastic eraser

Getting your bearings

Many beginners assume that bearing-guided cutters can't be honed but, once the bearing is removed, these cutters are as easy to tackle as straight ones. As before, bed the flat of the blades on the hone and rub the cutter lightly back and forth, **photo 7**.

The crucial thing is to completely disregard the angle that the cutter shank makes with the diamond plate. Different cutters have the blades set at different angles; any attempt to hold the shank level with the edge of the hone, as I have seen some people do, will result in the cutter edge being rounded over.

With the cutter clean and sharp, again spray it with lubricant if you've used water, **photo 8**, or just wipe off the surplus if you used lapping fluid. Then replace the bearing, if there is one, before putting it away.

Summing up

That's all there is to cutter maintenance – frequent cleaning and less frequent honing. You don't need to hone your cutters every five minutes; equally, don't think that they must be in need of honing because you haven't used them for six months.



10 The DMT hone service kit includes abrasive and scrubbing brush

Experience will teach you when it's necessary.

If you let them go too far, you won't be able to retrieve them with the hone, and you'll be faced with a resharping job. Eventually you might want to have a cutter professionally resharping anyway. When the time comes, your nearest saw doctor will do it for you. Titman recommend sending your cutters to a member of the Saw Doctors Association to ensure a proper standard of service. You will find your local one in Yellow Pages. You can also hand them in at your local dealer to send away.

The final touch

There is just one more job left. You need to clean the hone and make sure it's dry before you put it away. The easiest way to clean the surface of the diamond plate is to rub it with a plastic eraser, **photo 9**.

Occasionally, more thorough cleaning can be done with a small scrubbing brush and a household abrasive such as Ajax.



11 Scrub the hone vigorously, rinse it and dry it thoroughly



12 Clean your collets and the motor spindle with a small brush

Scrub the surface of the hone, rinse it and dry it meticulously.

DMT make a hone service kit, **photo 10**, consisting of a plastic cleaning block, a wire scrubbing brush and a scouring powder. To scrub the hone, sprinkle a little water and powder on the surface and scrub it vigorously, **photo 11**.

PS: Don't forget the collets

While you are servicing your cutters, clean your collet too. Trend sell a set of little brass brushes for the purpose, **photo 12**, or you can use a small bristle brush from your household store. I get mine from my dentist! Use the brush to clean out the motor spindle while you're at it.

FURTHER INFORMATION DMT (main UK stockists)

- Beesleys Tools
- 01793 525233
- www.tool-shop.co.uk

- Trend
- 01923 224657
- www.trendmachinery.co.uk



TIMBER | TOOLS | MACHINERY | HOBBY | GIFTS

AUTUMN WOODWORKING SPECTACULAR

On Friday 5th and Saturday 6th September
10am to 5pm each day – **Free Entry and Parking**

TOP DEMONSTRATIONS INCLUDING

Woodturning – Carving — Routing – Marquetry – Furniture Restoration – Colouring – Tool Sharpening
Stick Making – Craft Demonstrations

PLUS MASTER CLASSES IN WOODWORKING MACHINERY

In the region of 50 Trade Stands covering all aspects of woodworking machinery, tools and accessories.

THE BEST SELECTION OF TIMBER TO BE FOUND AT ANY WOODWORKING SHOW IN BRITAIN

Massive Sale and Special Show Prices on Timber, Machinery, Tools, Craft Accessories etc
Sale in our Hobbies and Interest Centre
Refreshment Marquee – Craft Galleries
Easy Access – AA signposted
Info Sheet available from mid-August

Yandle & Sons Ltd

Hurst Works, Martock, Somerset TA12 6JU

Telephone: 01935 822207 Fax: 01935 824484

E-mail: online-info@Yandles.co.uk

WOOD DYES • OILS • COATINGS • POLISHES

Experience perfected



Decking
Products
New for 2008

When you make a Rustin's purchase you are not only buying a specialised product that is guaranteed to do the job; you are also getting 83 years experience in producing the best results. Whatever application you are looking for Rustin's have the answer.

That is why we believe we offer both the professional and DIY specialist the finest range of wood finishes, speciality paints and floor coatings.

Visit our website for advice and tips for achieving perfect results.

www.rustins.co.uk

Rustin's

Rustins Ltd Waterloo Road London NW2 7TX Tel: 0208 450 4666 email: rustins@rustins.co.uk

3: Planing small parts

It's all a matter of scale. How small is small? When planing by hand, a small component usually means tiny. When we are talking about machine planing, small usually refers to the work's cross section or thickness. This covers two areas; wide but thin pieces such as cabinet backs or drawer bottoms, and pieces with small cross-sections such as glazing beads or trim mouldings.

MACHINE PLANING SMALL PARTS



1 Thin boards can cup after resawing for a variety of reasons

There are particular operations that should not be attempted with powered planers and thicknessers. One of these is feeding very short pieces of wood into the machine. You're likely to turn them into lethal projectiles as the blades pick them up and hurl them at you at tremendous speed. As a rule of thumb, don't attempt to machine-plane anything that is less than 300mm (1ft) long, and preferably make sure that it's longer than that.

Planing resawn boards

In last month's issue we talked about resawing on the bandsaw, and produced some slices from a planed board that



2

Split badly cupped boards to reduce the amount of correction required to each piece



3

Mount a thin piece of board onto a carrier using double-sided tape



NEW SERIES: HAND VS MACHINE

Solving the problem

It may or may not be necessary to correct this. In some cases it may not be possible as there is not enough thickness available to correct the fault. In this case the board can be split by sawing it in half along its length. The edges can then be squared to the good face and rejoined.

For thin boards that are going to be housed in a frame or a drawer bottom, it may be possible to live with the cupping as the board will be held flat once assembled. This is only practical if the cupped wood is flexible enough to be held flat without too much strain being put on the components housing the cupped piece.

Mounting thin boards

Thin boards are mounted onto a carrier to be taken through the thicknesser. The carrier must be flat and of even thickness throughout its length. Pieces of 18mm (3/4in) MDF are ideal for this job, as they are rigid, highly resistant to crushing and have a good flat surface to both faces. Above all, MDF will be of even thickness providing it has been stored properly in a dry environment.

The board should be fixed to the carrier with some thin double-sided tape. Don't use too much, or you will have a real job on your hand trying to separate the board from the carrier when you've finished!

Avoid the really aggressive double-sided carpet tape for this job. Not only will it stick the board down too firmly; its bulk can

started life as a 25mm (1in) thick rough-sawn board. It was prepared to have two planed faces from which the slices were cut. The resultant boards have one planed face and one sawn face. Thicknessing these thin boards is not as straightforward as it may seem.

This is because a thicknesser won't accommodate a thin board; exact specifications vary from machine to machine. The other consideration is length. A short board will be awkward to feed and will be liable to 'snipe' (a thinning of the board at each end as it is received and released by the in-feed and out-feed rollers respectively). The answer is to mount the

thin resawn piece on a carrier to take it through the machine.

Why thin boards cup

Thin resawn boards can be subject to cupping. This is sometimes due to the stresses in the wood being released as the resawn piece is separated from the original board. If this is the case, the board will cup as soon as it is separated.

Cupping may also occur after a period of time has elapsed due to the wood being drier at the surface than it is internally. As the piece reaches an equilibrium moisture content (EMC), the freshly exposed fibres contract as they dry and the board acquires a cup.



4 Attach long side strips to the carrier to act as guide rails and enable shorter pieces to be thicknessed



5 Support a cupped board prior to thicknessing



6

A router table can easily be adapted to plane long thin pieces



7

Fix a shim to the outfeed side of the fence using double-sided tape



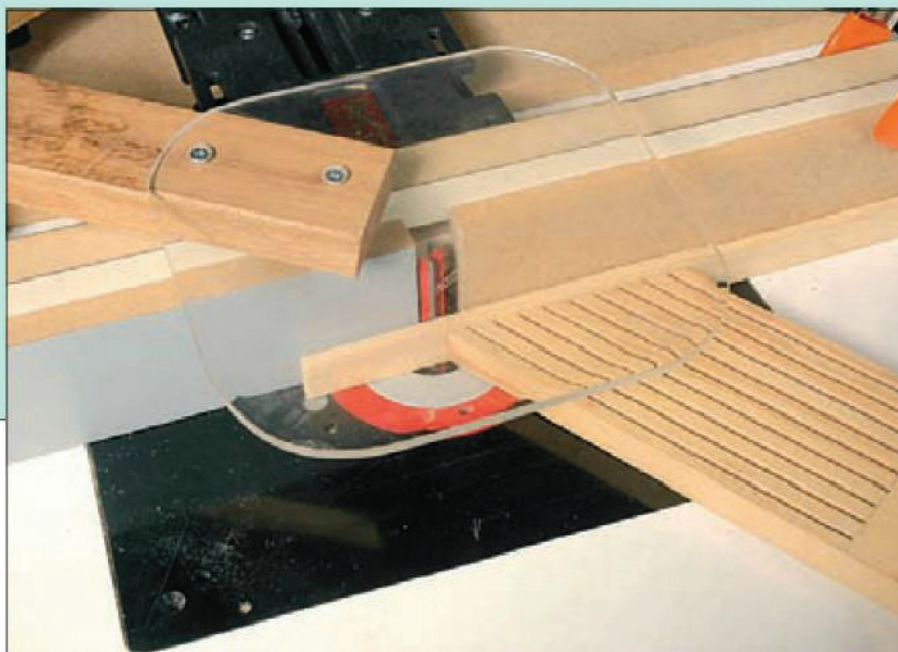
8

Align the cutter to the face of the shim attached to the outfeed side of the fence



9

The fence will now act like the tables of a planer, supporting the work as it is machined



10

Safety is always an issue when planing small pieces, always use guards, featherboards and a push stick when working with small-section items

affect the finished job by creating a shadow in the finished board, as the machine will thickness to the carrier including the tape at the point of fixing.

The long and the short

If the sawn board to be thickened is of adequate length, it can be passed through the machine to produce a perfectly finished board of the required dimension. Shorter boards will need the roller contact length extended.

To facilitate this, apply strips of wood either side of the workpiece that are of similar thickness but long enough to extend past each end by about 75mm (3in). The strips will engage the rollers before the resawn board reaches the cutter block and will maintain in contact until it has passed through. This method of working will produce a perfectly thickened board with no snipe.

Thicknessing a cupped board

If the cupping is minor, it can be planed out if the workpiece is thick enough. The board will need supporting to prevent the feed rollers flattening it as it passes through the machine. Mount the board on the carrier and use wedges to support the board as required. Also mount a pair of guide rails that are as high as the uppermost piece of

board. Run the assembly through the planer until the top surface is flat. Remove the board from the carrier, reattach it with the flat surface in contact with the carrier and thickness the other face to the required dimension.

The router as jointer

Thin strips are easier dealt with using a router table set up as a small planer or jointer. This is very easy to do with any standard router table and fence. If you have a router fence that has adjustable faces, set the outfeed section slightly forward of the infeed half of the fence. Install a long straight cutter and adjust the fence so that the out-feed fence is inline with the cutter. The difference between the setting of the in-feed side of the fence and the out-feed side will be equivalent to the amount of material removed with each pass.

Adjusting the fence

If your fence does not have adjustable faces, shims can be used to bump out the out-feed side of the fence. You can rummage in your offcuts bin for material that will give you a whole variety of thicknesses to use as shims. There are all sorts of alternatives from sheet metals to model makers' plastic sheet, but one of the best is plastic laminate. If further fine tuning is required, simply spray-mount a piece of thick paper to the infeed side of the fence.

Whatever method you choose, make sure you devise some guarding and always use featherboards and push sticks to feed small sections of material through the table.

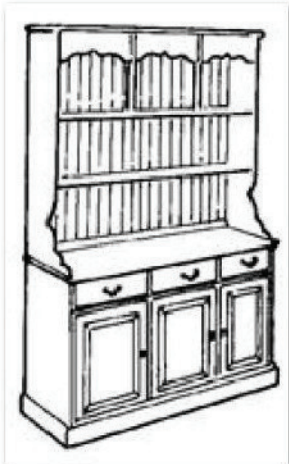
NEXT MONTH: We've no idea what but it'll be really interesting!

My Hobbystore.com

putting modellers first

BUY TWO PLANS ONLINE AND RECEIVE ONE FREE!

Please quote **FREE PLAN** when ordering online or by phone **01689 899200**



100'S OF PLANS AVAILABLE ONLINE:

BEDS, BOATS, CHAIRS, CHESTS, CLOCKS, DESKS, DOLLS HOUSES, DRESSERS, FURNITURE, GARDEN FURNITURE, GUITARS, MUSICAL INSTRUMENTS. KITCHEN FURNITURE, GAMES, MINIATURES, MODELS, STOOLS, TABLES, TOYS, WAGGONS, WEAVING AND WORKSHOP

ORDER YOUR BACK ISSUES ONLINE!



Over 3,000 items at your fingertips

**PLANS | PARTS | BOOKS | BINDERS | SHOW TICKETS
DVD'S | BACK ISSUES | SUBSCRIPTIONS**



SUBSCRIBE!

Mini **FREE** Tool Set

when you subscribe to *The Woodworker* for just **£39.99**



UK offer only.



Mini tool set is supplied in a wooden presentation case containing one each of the following Mini Tools -

HURRY!
offer ends
5th September 2008

- Woodworking Plane ●
- Combination Marking Gauge ●
- Sliding Bevel ●
- Try Square ●
- Dove Tail Square ●

All made from Hardwood and Brass Fittings.

BY PHONE: 08456 777 807 quote ref. S005 **ONLINE:** www.getwoodworking.com/subscribe

Alternatively, you can complete the form below and return, with payment, to the address provided.

UK ONLY SUBSCRIPTIONS (Includes FREE gift):

- I would like to subscribe to *The Woodworker* for 2 years (26 issues) with a one-off payment of £69.99, **SAVING 21%**
- I would like to subscribe to *The Woodworker* for 1 year (13 issues) with a one-off payment of £39.99, **SAVING 10%**

OVERSEAS SUBSCRIPTIONS:

- I would like to subscribe to *The Woodworker* for 1 year (13 issues) with a one-off payment: Europe (incl Eire) £59.99 ROW Airmail £62.00

For all Canadian, North and South American subscriptions please call 001 732 424 7811 or go to www.ewmag.com

PAYMENT DETAILS:

- Postal Order/Cheque Visa/Mastercard Maestro
- Please make cheques payable to Magicalia Publishing Ltd and write code S005 on the back

Cardholder's name.....
 Card no: (Maestro)
 Expiry date.....Switch issue no.....Valid date.....
 Signature.....Date.....

YOUR DETAILS:

Mr/Mrs/Miss/Ms.....Initial.....Surname.....
 Address.....
 Postcode.....Country.....
 Tel.....Mobile.....
 E-mail.....

DIRECT DEBIT SUBSCRIPTIONS (UK ONLY): CODE S005

- I would like to subscribe to *The Woodworker* and **SAVE 10%**, paying £9.99 every 3 months by Direct Debit (UK ONLY)
- Please complete form below

Instructions to your bank or building society to pay by Direct Debit. Originator's reference 422562

- Pay £9.99 every 3 months by Direct Debit (please tick)

Name of bank.....
 Address of bank.....
 Postcode.....
 Account holder.....
 Signature.....Date.....
 Sort code..... Account number.....

Instructions to your bank or building society: Please pay Magicalia Publishing Ltd. Direct Debits from the account detailed in this instruction subject to the safeguards assured by the Direct Debit Guarantee. I understand that this instruction may remain with Magicalia Publishing Ltd and if so, details will be passed electronically to my bank/building society.

Reference Number (Official use only)

Please note that banks and building societies may not accept Direct Debit instructions from some types of account.

TERMS & CONDITIONS: Offer ends 15th September 2008. Subscriptions will begin with the first available issue. Please continue to buy your magazine until you receive your acknowledgement letter. Refund requests must be in writing to the Publisher and will not be given on accounts with less than £20 credit. A £5 admin charge will apply and will be deducted from any refund. Refunds will only be given at the Publisher's sole discretion. We will use the contact details supplied to communicate with you regarding your *The Woodworker* subscription. If you are also happy for us to contact you about other products or services available from *The Woodworker* and Magicalia Publishing Ltd, please indicate here: Contact by: email telephone mobile. If you are happy for us to pass your details on to other carefully selected companies to contact you about their products and services please indicate here: Contact by: email telephone mobile. If you do NOT wish us to contact you by POST about products or services available from *The Woodworker* and Magicalia Publishing Ltd, please indicate here If you do NOT wish us to pass your details on to other carefully selected companies to contact you by POST about their products or services please indicate here

SEND TO: THE WOODWORKER SUBSCRIPTIONS, TOWER HOUSE, SOVEREIGN PARK, MARKET HARBOROUGH, LEICS, LE16 9EF



CHRIS CHILD takes one of the woodturner's favourite weekend projects and adds a few extra twists to the design. The first is to create three tiers of pegs instead of the usual two, allowing you to store nine mugs instead of the regular half dozen. The second is to discard the traditional flat disc base, and to substitute a tripod design that guarantees stability on the worktop. Getting all the peg and leg angles right will be a testing challenge...



BRYN EDWARDS offers cooks who regularly use herbs and spices the opportunity to get their collection under control with this neat revolving spice rack. It's tailor-made to fit those handy little spice jars sold by all the supermarkets, and it spins round easily so you can locate the one you want.



Turning parquet blocks

Marc Holloway thinks outside the box

My neighbour knows I've recently developed an interest in woodturning, and offered me some second-hand parquet flooring panels in case I could find a use for them. I thought back to a picture I once saw of a box turned from laminated wood, and wondered if by gluing the blocks together I could create something similar.



A sticky start

My first problem was to clean up the parquet fingers. They were stuck to a mesh backing and had been bedded in black bitumen adhesive, so my first job was to tear them off the mesh and remove the adhesive as best I could.

Getting rid of the bitumen was something of a nightmare. White spirit and similar solvents didn't work, but soaking the separated fingers in sugar soap for 48 hours seemed to soften it. A large plastic milk bottle with the top cut off made an ideal disposable receptacle. I found a sharpened triangular shavehook was a good tool for scraping the fingers clean, although the job took a seriously long time.

Fingers cubed

My next job was to assemble the individual fingers into a block I could turn on the lathe. After some trial and error, I decided on blocks of fifty fingers – ten fingers high and five wide – and created a gluing jig to keep all the joints tight as I glued up the block. Lots of clamps all round ensured that the joints were tight and free from gaps.

The glued-up block then needed cleaning up around the edges with a hand plane... at which point I discovered that the grain of the assembled fingers went both ways and made planing quite a tricky task. I vowed that the next block I assembled would have all the grain going the same way throughout!

Turning time

My plan was to create a round box with a lid, so the next job was to mount the block on the lathe. I've only got a faceplate chuck at the moment, so I had to be prepared for the screw holes to show on the inside of the lid, but I reckoned this was a small price to pay!

I mounted the block and started roughing it down to a round shape of the right overall diameter. So far so good; the block turned cleanly, and the appearance of the different fingers was already beginning to look interesting!

Now it was time to hollow out the inside of the box. My plan was to gouge this out to a depth of $4\frac{1}{2}$ [fraction] blocks, leaving enough thickness on the block to enable me to saw off the lid and still have a solid base in the box.

Before doing this, however, I sanded the block to a smooth finish, working down from 150 grit to 320, and then set about waxing it using a stick of carnauba wax. This gave it a lovely deep gloss, enhancing the laminated effect.

Off with his lid

Next, I sawed through the block at the base of the sixth finger, making the box lid four fingers deep, and planed and sanded the cut surfaces. I then used my router to rebate the edges of the lid and round over the edges of both lid and box. You can see the screw holes on its underside, but I'll fill those later.

The last job was to wax the base of the box and the lid with the wax stick and to buff them up – a job I did by hand, although you could use a lambswool mop in a power drill to speed up the process.

The end product was a smart little box that had cost me nothing but my time and effort. And I've still got about 800 fingers left to turn into something else...





BY CHRIS CHILD

Mug tree

The mug tree is a staple of turning practice. Here's how to do one well, with a neat variation by way of a tripod stand

You can find wooden mug trees readily on sale in most kitchen shops, but they're usually simple machine-turned things made in pine or plain hardwood. They certainly don't compare with what you can produce in your own workshop with a little ingenuity and basic spindle-turning skills.

When designing your mug tree, space out the positions of the mug supports by suspending a standard-size mug by its handle, and marking out the positions on the side of a suitable piece of timber. Once this has been done, a sketch of the design for the centre column can be roughly drawn out on the sides of the block.

I tend to use traditional designs, but there's no reason why you shouldn't be as adventurous as you like with your own design. I've made my mug tree in the shape of a simple tapered column, separated by three extension supports for the branches. The finial at the top of the column, which also acts as a carrying handle, is in the form of diamond bun.

The column is supported on tripod legs which, as well as providing the tree with its stability, raise it above the wet or damp work surface. There are nine mug branches which are fitted in sets of three, at a slight upward angle to the column.

Getting started

Fit your block of wood securely on the lathe between centres. Check that it is tight enough, by locking the lathe spindle and twisting the workpiece round in your hands – if it turns round, you need to give the tailstock a tightening twist or two. Set the lathe to a fairly fast speed of about 800rpm and turn the block down to a cylinder, **photo 1**, with a well-sharpened roughing-down gouge. Once the block has been reduced to a tapered cylinder, turn the convex shape at the bottom of the tree using a 1/4in bowl gouge. Reserve the roughing down gouge for removing the bulk of the waste. Apart from the final parting off with the skew chisel, these were the only turning tools used on the main column.

If your lathe is equipped with an indexing device, you can go straight on to turning the work down to a taper, sketching out the design and marking out the three mug support positions around the circumference of the column, **photo 2**.

A simple drilling jig guides the drill at the correct slightly tilted-up angle. This is made by drilling a hole through a block of wood



1 Set the lathe at 800rpm and turn the block to a tapered cylinder with the roughing-down gouge



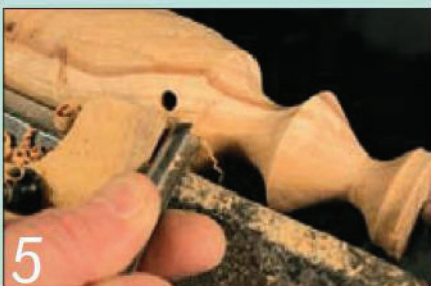
2 Sketch out the design by marking out the three mug support positions round the circumference



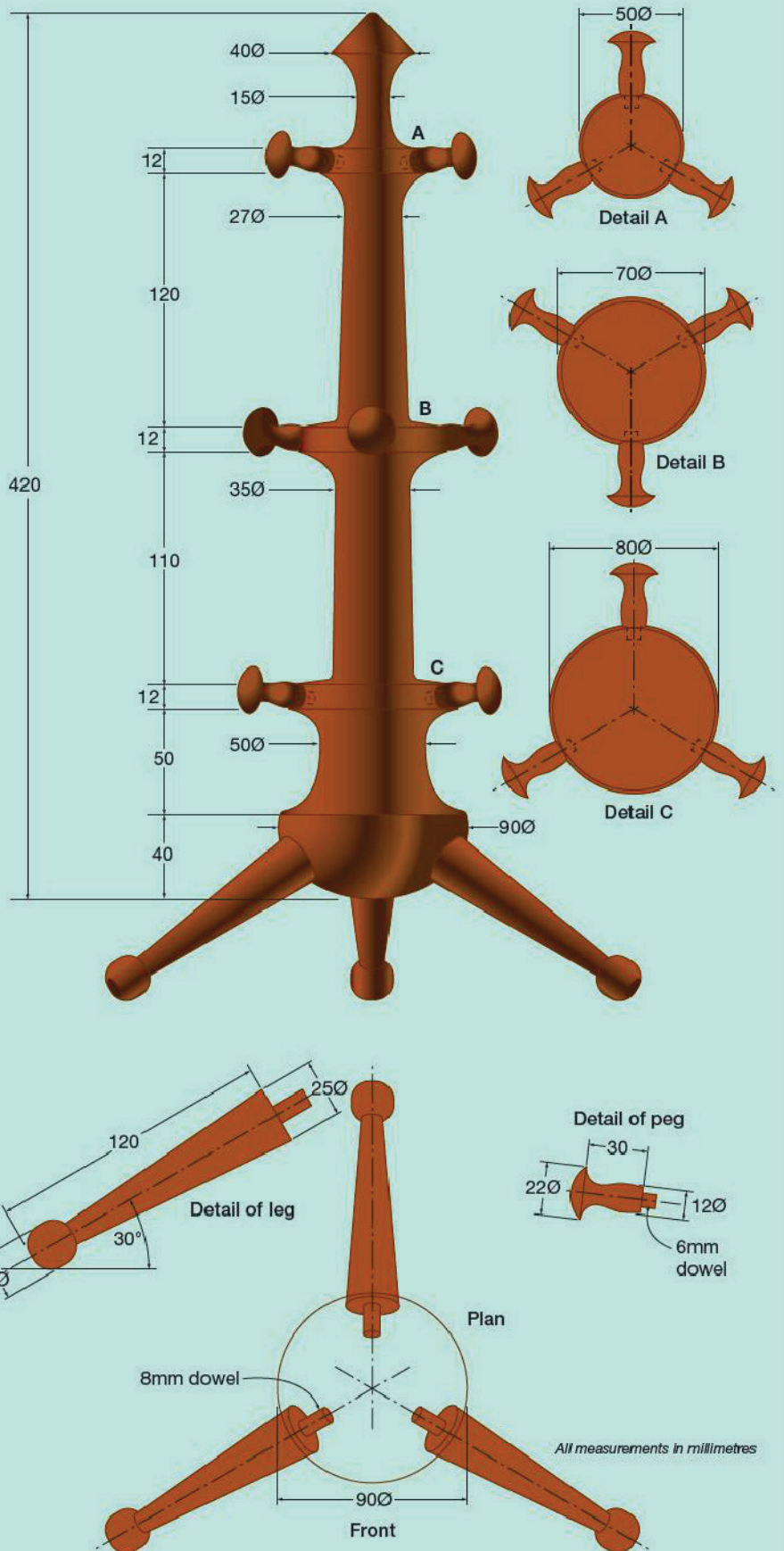
3 Use a simple jig held in the toolrest to drill the angled holes for the branches



4 Drill the holes for the tripod legs in the same way, but with a bigger drill for the larger dowels



5 Use the gouge on its side to form the neck of the finial, leaving a 2mm flat above the drill holes





6 Twist the gouge around as you work into the hollow so it pans out at the bottom



7 Start the next cut using a vertical tool support – a piece of hardboard clamped to the toolrest



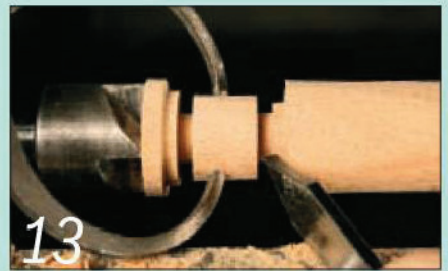
8 As the cutting edge moves further from the toolrest, reduce the depth to maintain accuracy



11 Turn the legs down to a cylinder, then cut the end dowels with the beading and parting tool



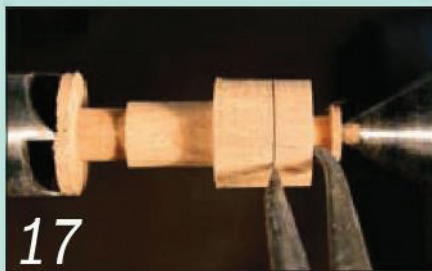
12 A pair of odd-leg callipers is ideal for transferring the lateral positions to the next leg



13 Part in at the base of the leg, then part in through the spindle above the ball foot



16 And sanding and polishing, part off the leg at the base of the ball with a skew chisel



17 Use your odd-leg callipers again to mark out the nine mug tree branches



18 Form the small radius at the neck of each branch using a $\frac{3}{8}$ in spindle gouge

which is held in the toolrest support by means of a dowel section turned to the same size as the toolrest post.

To drill the holes, set the toolrest saddle at right angles to the lathe bed so that you have a guide to setting the jig at the same angle each time. Tighten the drilling jig so that the drill is at centre height and providing a slight upward angle for the hole, **photo 3**. Drill the three tiers of holes so that they alternate as they go up the column. The holes for the tripod legs are drilled using the same jig but with a larger drill size, **photo 4**, so that thicker, stronger dowels can be used for the legs.

Turning the column

Now that the functional side of the project has been completed, you can put the drilling jig away and get on with the real turning. Start at the top of the column and form the hollows on each side of the diamond finial, **photo 5**, leaving a 2mm flat above the top row of holes. Use the gouge on its side, engaging the cutting edge while

holding the tool firmly down on the toolrest. By lifting the handle, start the cut and as you proceed into the hollow, twist the tool round so that it pans out at the bottom, **photo 6**. This is then repeated on the opposite side of the hollow with the tool used mirror-fashion.

I used a vertical toolrest made from a piece of hardboard G-clamped to the toolrest. By resting the back of the gouge against this support, **photo 7**, I avoided the problem of the tool slipping backwards at the beginning of the cut.

Once the cut is established, a freshly sharpened gouge will almost feed itself, slicing a path cleanly through the wood fibres, with its bevel gliding over the surface it has already cut. As you near the bottom of a deep hollow, you'll need to compensate for the gouge having to reach further away from the support of the toolrest, by reducing the depth of cut, **photo 8**.

The areas around the holes need to be formed into flat surfaces, onto which the mug supports can be squarely seated. Use

your freshly sharpened gouge on its side, with its bevel in line with the intended cut, and slice across the mouth of the holes, **photo 9**. By placing a drill into the holes and using it as a visual guide, you can check that the angle of the cut is square with the line of the hole. After sanding and polishing, part off the finished work off by parting in at the base of the column and then slicing through the top with the skew chisel, **photo 10**.

Turning the tree legs

To turn the tree legs, first turn the blocks to a cylinder with the roughing-down gouge and then cut away an area at the top of the leg for the dowel, using the beading and parting tool, **photo 11**. A pair of odd-leg callipers is a quick and much more accurate way of transferring the lateral positions, **photo 12**, than the method of projecting a line across from one leg to another with a ruler and pencil. Part in at the base of the leg and then part in through the spindle above the ball foot, leaving a blocked-out



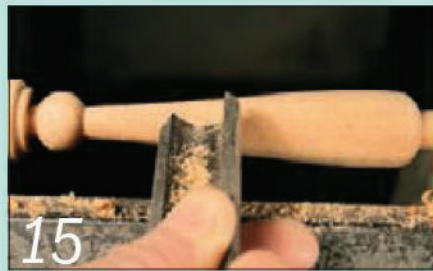
9 Use a freshly sharpened gouge to trim the branch supports to the right angle



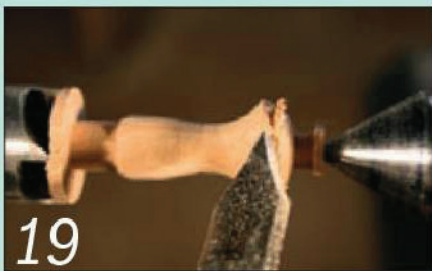
10 After sanding and polishing, part off the column with the skew chisel



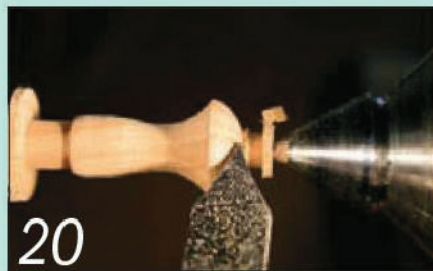
14 Taper the leg roughly. Then use the parting tool again to round off the ball shape



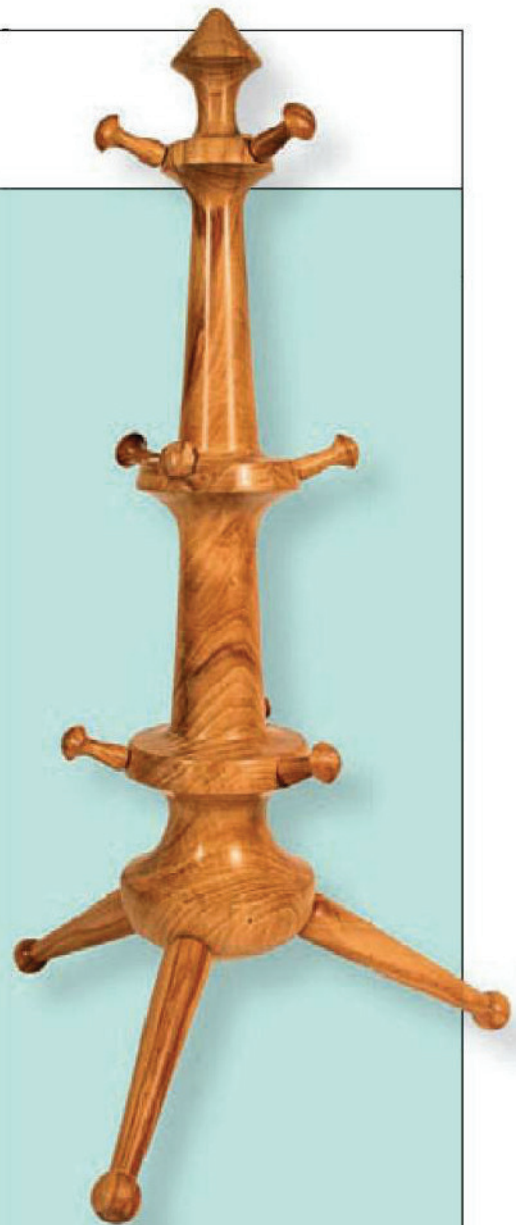
15 Use the roughing-down gouge to finish the taper and round off the top shoulder with a parting tool



19 Start shaping the end of the branch into a tapering dome using the parting tool



20 In this position the tool is almost completely on its side, so take care to avoid snagging



section for the toe, **photo 13**.

Use the parting tool to round off the ball shape, **photo 14**. Cutting small convex shapes such as balls and beads is never easy, but I find the most reliable tool for this operation is the parting tool. It is used by laying the tool square on the toolrest with the corner of the tool positioned on the crown of the round that is to be cut. The handle is lifted so that just the corner of the cutting edge engages with the work and lifts a tiny tuft of wood up at first. The tool is rolled so that the corner of the tool turns over the fibres of the wood as it twists.

If this is new to you, practise taking very fine cuts until you gain confidence. Taper the rest of the spindle using the roughing-down gouge, **photo 15**, and round off the top shoulder with the parting tool.

After sanding and applying a coat of polish, reduce the dowel to the correct diameter so that it will fit into the base of the mug tree column. Part off the work at the base of the ball with the point of the skew chisel, **photo 16**.

Making the branches

To make the nine mug tree branches, follow the same methods as for the tripod legs, marking them out, **photo 17**, reducing the blocks to a cylinder and then forming dowels at the ends. The small radius at the neck of the branch is formed with a $\frac{3}{8}$ in spindle gouge, **photo 18**. This is used in the same way as the $\frac{1}{4}$ in bowl gouge, but because of its shape it's more suitable for producing these tight hollows.

The parting tool is used again when shaping the end of the branch into a dome shape. In this position, **photo 19**, the parting tool is almost completely on its side and any lateral movement of the tool's edge will leave it very vulnerable to snagging in the side wall of the ball, **photo 20**. Precise judgement is required so that the cut is thin enough for the waste material to fracture through its end-grain section and fall away.

Sanding and polishing

For my mug tree I've used some well seasoned beech which has slightly spalted

(gone a bit rotten) in places. This wood is more colourful than clean unaffected beech, but the fungal infection can leave the wood more coarse in texture. Put on your dust mask if you are not wearing one already, and start with some coarse abrasive to remove the last traces of tool marks.

The abrasive I use is aluminium oxide on a cloth backing. I start with 80 grit and follow up with 240 grit which removes the scratches of the coarser abrasive. With beech you can polish after the 240 grit, but I usually give the work a light rub with 350 or 400 grit to be certain of obtaining a fine finish, where the only marks visible on the work are the natural grain of the timber.

Because of its use in the kitchen and probable contact with water, I've used a cellulose sealer to finish the mug rack. This is best brushed on all over quickly with a paintbrush. Then before it dries, the whole surface of the work can be wiped off with a clean cotton cloth, which will absorb any surplus finish and leave a completely even coat with no overlaps.

Henry Taylor Tools

The Creative Edge

for woodturners and woodworkers



When the creative urge takes you and you want to give shape and form to your ideas, you'll need tools you can rely on. Tools that will give you the best chance of achieving the results you want - first time, every time.

The Diamic brand incorporates the knowledge and experience gained from over 150 years of manufacturing hand tools. Using the best of current materials and technology, these are tools that can be relied on to perform to the highest standards.

Expert or beginner, give yourself the creative edge by selecting your new woodturning and woodworking tools from the comprehensive Diamic range by Henry Taylor Tools.



Henry Taylor Tools Limited

The Forge
Peacock Estate
Livesey Street
Sheffield
S6 2BL

Tel: 0114 234 0282
Fax: 0114 285 2015
E-mail: sales@henrytaylor.tools.co.uk
Web: www.henrytaylor.tools.co.uk



Hegner - standing head & shoulders above the rest



● Rock steady heavy weight construction for effective vibration damping, & precise workpiece steadiness

- Durability & accuracy
- Nothing comes close to its no compromise patented design
- Rock steady cutting action and longer blade life
- Finest straight-from-the-saw finishes
- A real investment in long term skill support

Ring us today for information pack ref: **GW-SS27** & get the full details of our Scroll Saw range

Hegner UK Ltd

Units 1 & 2 North Crescent . Diplocks Way
Hailsham . East Sussex BN27 3JF

Ring us on 01323 442440
or e-mail us on sales@hegner.co.uk

Optional accessories
Super fine dust extraction
Machine stand
Finest blades

The World of Woodworking

from Thomas Flinn & Co
~ Manufacturers of the Finest
Quality Sheffield Saws ~

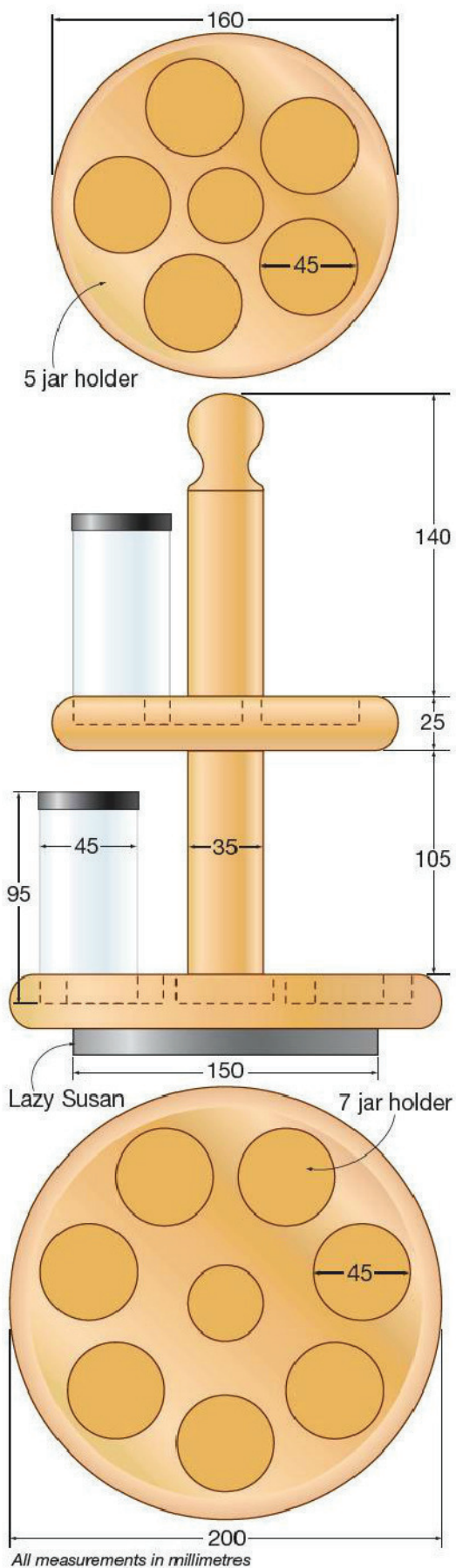
Selling favourites from Pax, Lynx, Footprint Tools,
Robert Sorby, Crown Hand Tools and Clifton.

Please visit our online shop at
www.worldofwoodworking.co.uk

~Mail Order Catalogue Available~



114 Harvest Lane, Sheffield S3 8EG
Tel: 0114 272 5387 ~ Fax: 0114 272 5389
Website: www.flinn-garlick-saws.co.uk
Email: info@flinn-garlick-saws.co.uk



BY BRYN EDWARDS



Posh spice

Home cooking is back in vogue once again, so supermarket spice jars are becoming ever more evident in kitchens around the country. Here's a tidy design for storing them that I've executed in sycamore. Any keen chef will be happy to see it on the kitchen worktop



1

Find and mark the centre of the larger blank, then glue it to a faceplate covered with MDF



2

Mount the faceplate on the lathe and true up the outer edge of the blank



3

Then true up its face using a scraper. This will form the underside of the lower rack



7

Take the blank off the faceplate, turn it over and clamp it in the chuck. Then true up the face



8

Mark the centres of the seven jar holes using dividers. Work by trial and error to get a good fit



9

Then drill a stopped hole with a Forstner bit at each of the marks you made in step 8



13

Repeat steps 4 and 5 to mark up and cut away the recess for the Lazy Susan. Test its fit



14

Now repeat step 6 to mark out and cut away the recess for the four-jaw chuck



15

Take the blank off the faceplate and reverse it so you can trim the outer edge and face



18

Drill a clearance hole in the base so you can see the screw holes in the Lazy Susan through it



19

Drive screws through the hole one by one to attach the Lazy Susan to the lower rack



20

Now move onto the upper rack. Place the blank on the lathe and round over the edge



23

Turn a length of square sycamore down to a cylinder to form the stem of the spice rack



24

Mark out the length of the column and the position of the decorative top ball



25

Turn the ball, form a dowel at the bottom end of the column and part it off



4 Next mark out the position of the Lazy Susan bearing on which the spice rack will turn



5 Chisel out the recess and check that the mechanism fits within it



6 Mark out the recess for the four-jaw chuck and cut this away carefully



10 Drill the centre hole too. Then remount the disc and round over the outside edge with a scraper



11 Take the second blank that'll form the base of the rack and glue it to a faceplate



12 Mount it on the lathe as before and true up the edge and the face using the scraper



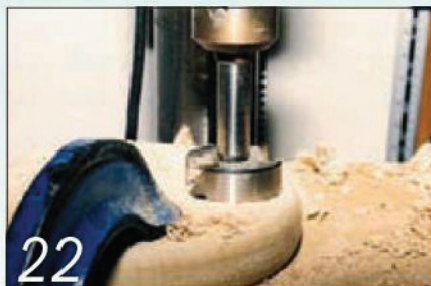
16 Check that the trued-up face is flat and square, then sand it smooth



17 Screw the Lazy Susan bearing into its recess in the spice rack base



21 Repeat step 8, this time marking out five jar holes. Then drill the centre hole for the upright



22 Take the disc off the lathe and drill the holes for the jars with the Forstner bit you used in step 9



26 Position the column on the lower rack, set the upper rack at the desired height, and glue up



27 Finish the assembled spice rack by wiping on a couple of coats of water-resistant finishing oil



A computer monitor with a black bezel and a silver base. The screen displays the text "GET WOODWORKING.COM" in a bold, sans-serif font. "GET" and ".COM" are in green, while "WOODWORKING" is in dark blue. The Apple logo is visible on the front of the monitor.

GET
WOODWORKING
.COM

A red circular stamp with a distressed, ink-like texture. Inside the circle, the words "FREE TO JOIN" are written in a bold, red, sans-serif font, stacked vertically.

FREE TO
JOIN

THE ULTIMATE
WOODWORKING
RESOURCE

FORUM PRIZE DRAWS GALLERY REVIEWS & ARTICLES VIDEOS



ANDY STANDING makes the bandsaw his theme this month. He looks first of all at the basics of choosing and using one, and follows this with a head-to-head comparison of six budget, mid-price and top-of-the-range machines



IAN TAYLOR returns to his testbench and runs his expert eye over a selection of new and useful tools and equipment from Axminster, Brennenstuhl, Brimarc, Classic Hand Tools, Draper, Faithfull, Toolbank and Trend

ALSO TESTED

- Bosch GCM8S mitre saw
- Robert Sorby turning tools
- Einhell KGSZ 2100 mitre saw
- Robert Sorby micro carving tools
- Metabo KGS 303 Plus mitre saw

PLUS MACHINERY CHECKLIST 6

Random orbit and palm sanders updated

OUR RATINGS

- Faultless performance, excellent value for money
- Very good performance, good value for money
- Average performance, reasonable value for money
- Less than satisfactory performance, poor value for money
- A stinker: avoid at all costs!



Forge Steel hold-downs

Ian Taylor gets to grips with a basic bench aid



Being able to hold workpieces securely against the bench is important for a lot of jobs, especially chiselling and cutting mortises. These plastic hold-downs in the Forge Steel range from Screwfix are designed to give flexible clamping in a range of circumstances. They'll work with holes between 18 and 38mm diameter drilled in your benchtop.

You slip the threaded rod through from the top and screw up a nut from beneath to fix it in position. There's a quick release mechanism which allows you to disengage the thread and slide the nut into position quickly. The hold-down is tightened by a cam-action clamp, and will accommodate workpieces up to 80mm thick.

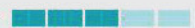
It worked fairly well in holding the workpiece tightly against the benchtop, but I found that it was still possible to get a bit of rotation around the clamping point if you use only one hold-down. If the

working force is directed towards the bench the hold-down works fine, but it is less secure if there's any side-to-side pressure.

VERDICT

- PROS** ■ Quick and versatile clamping action
- CONS** ■ The clamping pressure is a bit limited

VALUE FOR MONEY



PERFORMANCE



FURTHER INFORMATION

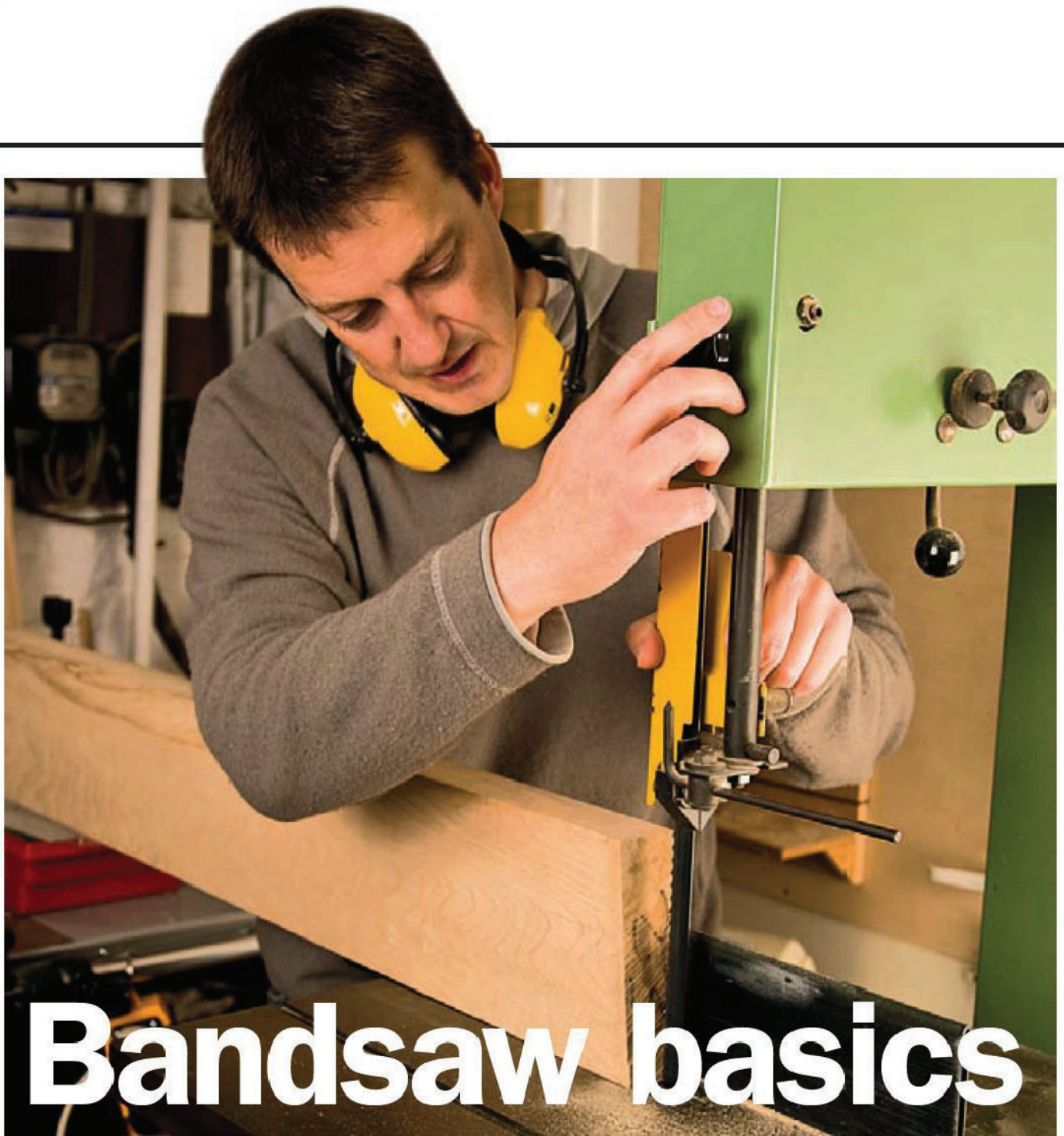
- Screwfix
- 0500 414141
- www.screwfix.com



You can slide the locknut into place quickly



One hold-down can allow lateral movement



Bandsaw basics

Using a point fence

A point fence is supplied with some saws, but it's easy enough to make your own. It merely involves making a small vertical support that you clamp to the rip fence beside the blade. This makes it possible to set the fence to the desired width, but still allows you to vary the angle at which the timber meets the blade, so compensating for any inaccuracy.



Clamp the vertical support to the rip fence



Make sure the guides are correctly adjusted

When it comes to equipping your workshop with a powered saw, you have a lot of choice. There's the table saw, the mitre saw, the sliding mitre saw, the radial arm saw, the powered jigsaw, the portable circular saw and the bandsaw. All these tools have their strengths and weaknesses, so it's important to choose the right machine to suit your kind of work. Which will it be?



TESTED BY ANDY STANDING

One of the most versatile saws is the bandsaw. Though most woodworkers opt for a table saw as their primary machine, a bandsaw serves many valuable functions and in some workshops it can replace the table saw altogether. For producing curved components, of course, a bandsaw is a necessity. Bandsaws are also popular with turners because of their ability to produce turning blanks from large blocks of timber.

The bandsaw design means that its uses aren't restricted to woodworking alone. It appears in various guises in many different industries, from butchery to upholstery. In fact, in almost any business where material needs to be cut up there will be a type of bandsaw to do the job.

Is big beautiful?

Bandsaws are available in a wide range of sizes, from small bench-top machines costing less than £100 to large industrial floor-standing models costing several thousand pounds. Your choice will obviously be governed by your budget and the space you have available, but don't dismiss the smaller machines as, in context, they still have a lot to offer.

The plus points

Bandsaws have many virtues. Even a fairly modest machine will have a generous ripping capacity to rival a large table saw. The bandsaw is also a quiet and relatively gentle machine to use. There's no kickback to hurl the workpiece back at you, and no screaming blade to annoy the neighbours.

Correctly set, a good bandsaw will produce very accurate work and can be used for cutting many types of joint. It's particularly good for cutting tenons. Another job it does well is making veneers. The thin blade cuts a far narrower and less wasteful kerf than a table saw, and the smooth action allows the saw to cut surprisingly delicate slivers of timber.

However, be warned that beneath the bandsaw's rather reassuring exterior lurks a potentially dangerous machine that must be treated with considerable respect. Keep your fingers well away from the blade as you work, and always use push sticks with small workpieces.

The downside

Due to their relatively narrow blades and small worktables, bandsaws aren't really the best machines for ripping long lengths of timber. There are specialised versions designed to do this, called band re-saws. These are heavyweight machines with very wide



blades (and often power feeders) that are used in the timber conversion process. Workshop bandsaws are fine for occasional ripping jobs, though if you envisage doing a large amount of ripping, a table saw is probably a better choice.

Bandsaw blades

Bandsaws are one of the trickier workshop machines to set up. Because of their versatility and the wide variety of blades available, you need to be able to adjust the blade tension and the blade guides easily and quickly, to produce consistently accurate results.

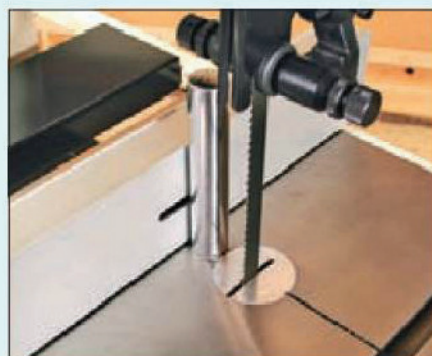
They're particularly sensitive to blade wear, and replacements are needed regularly. It's important to choose the right blade for the job in hand. If you want to cut tight curves, you must use a narrow blade. If you want to cut straight lines, or do some ripping, you'll need a wider blade. As a rough guide, a 4mm blade will be able to cut a curve with a radius of about 6mm whereas a 12mm wide blade can't cut a curve with a radius of less than about 65mm.

Familiar problems

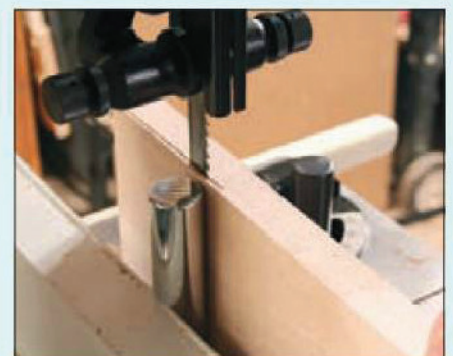
Inexperienced users often complain of bandsaws not cutting straight. This is almost always due to poor set-up or blunt blades. The blades are quickly blunted and can be easily damaged, causing them to wander. Blades often have a slight bias to one side



Run the workpiece against it through the blade



A supplied point fence is just a simple metal peg...



...that guides the workpiece solidly and effectively



From freestanding to table-mounted, there's plenty of choice on size

due, perhaps, to uneven sharpening, but you can still make straight cuts with these.

The secret is to use a point fence that allows you to steer the timber past the blade – see the panel below for more details.

Setting up the blade

To fit a bandsaw blade, first isolate the machine from the mains supply and open both the doors. Loosen all the blade guides and open them to their maximum extent.

Fit the blade onto the wheels and apply a small amount of tension. Spin the wheels by hand and let the blade settle. Make sure that none of the guides is touching it.

Adjust the tracking control on the rear of the machine until the blade is running either in the centre of the wheel, or a little towards the front.

Once the blade is tracking correctly, increase the tension until the blade is taut. Wider blades need a higher tension than narrow ones.

Now set the guides. The side guides should be set so that they are just below the blade gullets and as close as possible to the blade without actually touching it. Tighten them up so that they just clamp the blade, then loosen them off so that the blade can slide cleanly through.

The thrust guide behind the blade should also be as close as possible, without actually touching it. If this is set properly, it should spin only when the blade is actually cutting.

The safety Issue

Always adjust the top guard so that it's as close to the workpiece as possible. This not only protects the operator, but also brings the blade guides close to the cutting point for maximum support and accuracy.

Never try to force work too fast through the machine, as this will only result in a poor quality cut and possibly damage to the blade.

Never try to pull back out of a deep cut with the blade running, or you risk pulling it off the wheels. Always stop the machine and then back out. Keep your fingers away from the blade as you work, and always use push sticks for all but the largest workpiece.

Circle cutting jig

Bandsaws are excellent tools for cutting circular workpieces. This makes them particularly popular with woodturners. You can simply draw out a circle and cut it out by hand, though you will be left with a lot of cleaning up. The best way is to use a purpose made jig. These are available as accessories for many machines, but it is an easy job to make your own.

Making the Jig

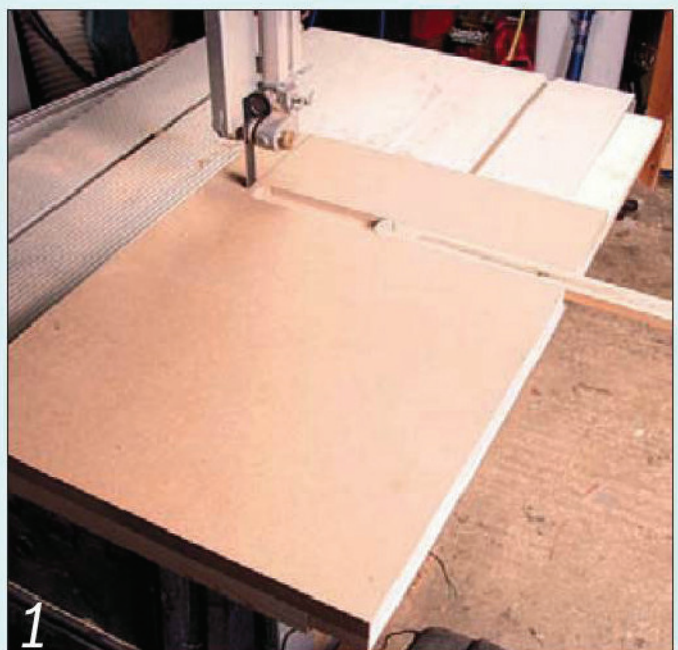
Cut a baseboard from 18mm MDF. This should be roughly 50mm wider than the measurement from the outer edge of the table to the blade. Fix a long batten to the underside of the outer edge, and a shorter along the back edge. If the outer edge of the table is not smooth, the jig may be run on a narrow batten in the mitre fence groove on the table.

Place the board on the bandsaw with the side batten running along the edge of the table and the front edge just in front of the blade. Start the bandsaw and cut into the board until the rear batten locates against the back of the table.

Now remove the board and rout a wide groove about 10mm deep directly in line with the end of this cut. Machine a piece of hardwood to fit, cut a groove down its centre to accept a screw, and carefully drive a fine nail through it to provide a pivot point for your work.

Using the Jig

Set the radius of your circle. Mark the centre point on your workpiece and drill a tiny pilot hole so that it will fit over the nail. Pull the jig back from the blade and fit the workpiece. Start the saw and, guiding the jig along the edge of the table with the side batten, cut into the workpiece until the rear batten locates. Now simply revolve the workpiece to cut the perfect circle. Make sure that you are using a narrow blade if you wish to cut a circle with a small radius.



The finished jig positioned on the bandsaw



TESTED BY ANDY STANDING



2
The top of the jig, showing the long guide batten

3
The underside, showing the other edge batten



4
The sliding bar and pivot point set the radius



5
Locate the workpiece on the pivot point and withdraw the jig



6
Start the saw and push the jig forward into position



7
Push forward and start turning the workpiece



8
Extend the cut by rotating the workpiece further



9
Allow the workpiece to rotate freely



10
Keep your fingers clear of the blade as you work



11
The cut is completed to leave a perfect circle

These are the smallest members of the bandsaw family, but don't be put off by their diminutive size; they're still useful workshop machines. Ideal for joint cutting and intricate work, they will fit into the smallest workshop and can be stored in a corner when not needed. Just don't expect them to cope with a lot of heavy re-sawing.

Bench bandsaws

For this feature I've split the machines into three price categories – budget, mid-range and top price. This is in no way a fully comprehensive review; I've taken a pair of machines from each category to compare and illustrate what you should expect for your money. A more extensive review of a wider range of small bandsaws is available on our website at www.getwoodworking.com

A huge amount of woodworking machinery is now manufactured in the Far East, notably China. This means that there are a lot of very similar-looking machines on the market. Though superficially the only difference between them seems to be their colour and name, there are often subtle changes in specification which can make quite a difference to their performance, so it pays to have a good look at them before parting with your cash.

VERDICT

What type of bandsaw you choose really depends on what you need it to do and how much you are going to use it. As you can see, unsurprisingly, the more you pay the better the machine you get. The most expensive machines are certainly worth that little extra, in terms of speed, convenience and finish. The mid-range machines offer good performance and excellent value, and the budget machines will suit the occasional user with modest demands.

SAFETY FIRST

These bandsaws must always be securely screwed or clamped to a workbench before use; otherwise they'll move about uncontrollably as you're working, and there's a danger that they might topple over.



Let's start at the cheap and cheerful end of the market. Here's what you get for less than £100. At this level the blade guides tend to be on the small side, and the fences and overall finish of the machines can be patchy.

TESTED BY ANDY STANDING



Ryobi EBW2523

The Ryobi is an attractive machine, carefully designed and with some useful features. It has a well-braced alloy body with a one-piece opening front door. Surprisingly there are no safety interlocks on the door, so the machine will work with the door open.

The blade runs on a pair of fairly substantial cast alloy wheels and there is a good blade tensioning system with a quick-release lever for rapid blade changes. There is also a window in the edge of the door to view the blade tracking.

A sturdy alloy upper blade guard is fitted and this is adjusted with a neat rack-and-pinion system. The guides are simple square-section steel bars and a roller thrust bearing is fitted. The under-table guides are identical.

The alloy table is well finished and incorporates a slot for the metal mitre fence. The rip fence clamps securely to the table, but there is no marked rip scale. The table tilts to 45° and again a rack-and-pinion system is used, making it very easy to set.



SPECIFICATION

POWER	250W
TABLE SIZE	300 x 300mm
CUTTING DEPTH	90mm
THROAT	228mm
WEIGHT	17.2kg

VERDICT

This is a good-quality basic machine. It runs smoothly and has well-designed and convenient features. It was supplied with a fairly appalling blade, but a replacement will solve that problem.

- PROS**
- Well-designed features
 - Easy blade changing
- CONS**
- No door safety interlocks
 - Appalling blade

FURTHER INFORMATION

- Ryobi
- 01628 894400
- www.ryobipower.co.uk

Titan SF8R



The Titan has a steel body with a one-piece opening front door. The table is made from fairly rough alloy, and it is supplied with a rip fence and a sliding mitre fence. The blade runs on a fairly small pair of alloy wheels, though it was easy to make it track properly and also to apply a fair amount of tension. The upper blade guard is alloy and steel and is held in position with a locking knob on the rear of the casing.

It is fitted with a fairly basic set of guides. The two side guides are simply small diameter steel rods and there is a roller thrust bearing. However, all are easily adjusted and offer enough support for narrow blades. An identical set of guides is mounted beneath the table. The table itself can be tilted to 45° for bevel cutting and a large Bristol locking handle is fitted to secure it in position.

The rip fence is fairly crude, and clamps onto the table at both ends with a cam lever. The mitre fence slides in a groove on the right-hand side of the blade.

The supplied blade was so poor that it veered off line wildly and threatened to destroy itself in the process. However, once it was replaced, the Titan ran well and cut remarkably accurately.

SPECIFICATION

POWER	350W
TABLE SIZE	300 x 300mm
CUTTING DEPTH	85mm
THROAT	190mm
WEIGHT	17.6kg

VERDICT

This is a budget-priced machine, so you can't expect too much. However, with the addition of a good blade and a little fiddling with the controls it is perfectly capable of producing accurate work. It would be ideal for the occasional user, or those with very modest bandsawing needs.

- PROS**
- The price
 - Easy to adjust
 - Accurate
- CONS**
- Almost unusable blade

FURTHER INFORMATION

- Screwfix Direct
- 0500 414141
- www.screwfix.com

As we move up the scale there should be rather more attention to detail, with better guides, a more consistent finish and a higher level of performance.

SIP 01484

The SIP is a workmanlike machine at a realistic price. Finished in two-tone silver grey with bright orange fittings, it cuts rather an elegant figure. The overall finish is generally pretty good. The doors fit well and close securely, and the cast iron table has a smooth surface and an inset rip scale.

The rip fence clamps to the table securely, though the front bracket is plastic and can be overstressed if carelessly tightened. The mitre fence runs snugly in its groove and provides accurate guidance.

Blade support is good, with a set of three roller bearings both above and below the table. The upper blade guard is adjusted by means of a rack-and-pinion system and there is also a locking knob. Both the doors are protected by separate micro-switches and there is a dust extraction outlet on the rear.

£120



SPECIFICATION

POWER	350W
TABLE SIZE	350 x 320mm
CUTTING DEPTH	120mm
THROAT	245mm
WEIGHT	30kg

VERDICT

The SIP performs well. The guides are easy to set and the motor runs smoothly. It cuts accurately though at a sedate pace. An efficient machine with no obvious faults.

- PROS** ■ Well designed and finished
 ■ Excellent detailing
- CONS** ■ Front rip fence bracket a little fragile

VALUE FOR MONEY ■■■■■■
PERFORMANCE ■■■■■■

FURTHER INFORMATION

- SIP
- 01509 500359
- www.sip-group.com

Scheppach Basato 1

The Scheppach is a perfect scaled-down version of the larger Basato machines. Sporting the same blue and fawn livery, it certainly looks smart and is equipped with a cast iron table with a low-friction rippled finish.

The rip fence is square section alloy and mounts on an alloy rail. There is a clear metric scale with a magnified setting lens and a secure cam-clamp to hold the fence in place. The mitre fence has a plastic body mounted on an alloy bar. It fits in a precisely machined groove in the table and moves with remarkable accuracy. A good set of guides is fitted above and below the table, with a set of three roller bearings.

The door is made in one piece but because it is mounted on a sloping frame, it always swings shut in a very annoying way. However, I discovered that you can use the rip fence cam lever to hold it open, which alleviates the problem.

The Scheppach is a compact machine and has a smaller throat capacity than some of its rivals; however it makes up for its small size with impressive performance.

£119.95



SPECIFICATION

POWER	300W
TABLE SIZE	300mm x 300mm
CUTTING DEPTH	100mm
THROAT	195mm
WEIGHT	25kg

VERDICT

This is an impressive little machine. It has an eager motor, and powered its way through some thick hardwood without complaint. Its accuracy is also good, with easy to adjust guides and secure fences.

- PROS** ■ High-quality finish ■ Excellent cutting performance
- CONS** ■ One-piece door swings shut annoyingly

FURTHER INFORMATION

- NMA Agencies
- 01484 400488
- www.nmauk.com



TESTED BY ANDY STANDING

At the top of the bandsaw price range you'll find some familiar names. At this level you should expect a well-finished machine with robust fittings that is easy to set up and has suitably powerful performance.

Metabo BAS260 Swift



£175

Metabo bandsaws have always been popular and were, until fairly recently sold under the Elektra Beckum name. This machine has similarities with the Record and Sip machines on test. Again a polished cast iron table is used, with a substantial rip fence running on an alloy rail. It has a large clamping handle and a magnified setting lens over the adjustable metric scale.

The blade guides are particularly good. They are brass and need no tools to adjust, so it is very easy to make minute adjustments. The under table guides are heavily guarded but again can be adjusted by hand.

The tool-less theme extends to the doors, which also can be opened without resorting to a screwdriver. So this is a very convenient machine to use. At the rear is a unique feature. There is a support rail that extends out of the base to give additional stability to the machine and stop it from tipping. The motor looks very similar to that on the Record. An adapter is fitted to the dust extraction outlet and will accommodate 44mm, 58mm, or 100mm hoses.

SPECIFICATION

POWER	350W
TABLE SIZE	340 x 340mm
CUTTING DEPTH	100mm
THROAT	245mm
WEIGHT	32.5kg

VERDICT

Bearing more than a passing resemblance to the Record and the SIP, Metabo have made their own modifications. In use it's a smooth runner and cuts faultlessly.

- PROS** ■ Excellent blade guides ■ Rear support rail ■ Versatile dust extract
- CONS** ■ Nothing of note

VALUE FOR MONEY ■■■■■■

PERFORMANCE ■■■■■■

FURTHER INFORMATION

- Metabo
- 02380 732000
- www.metabo.co.uk

Record BS250

The Record is a particularly well-finished machine with a smooth polished cast iron table and attractive green and grey powder-coated body. It has the same frame as the SIP and shares the same blade guides. The motor, although nominally the same wattage, is heavily finned and feels a little more powerful.

The main differences between this machine and the SIP are the table and the rip fence. The table itself is highly polished, and the rip fence runs on an alloy channel at the front of the table, with an integrated metric scale. Its front bracket is metal and it also incorporates a reversible secondary fence for greater versatility when cutting thin materials. The mitre fence is again plastic and runs smoothly and accurately in the table slot.

The dust extraction outlet is fitted with an adapter so that either 58mm or 100mm diameter vacuum hoses may be used.

£160



SPECIFICATION

POWER	350W
TABLE SIZE	350 x 320mm
CUTTING DEPTH	120mm
THROAT	245mm
WEIGHT	30kg

VERDICT

The Record is a pleasure to use. It runs smoothly and quietly and cuts accurately. It is also easy to set up and generally very well made.

- PROS** ■ Quality table and rip fence ■ Reversible secondary fence
- CONS** ■ Nothing to report

VALUE FOR MONEY ■■■■■■

PERFORMANCE ■■■■■■

FURTHER INFORMATION

- Record
- 0870 770 1777
- www.recordpower.co.uk

True Angle gauge

£15.60
(desk size)

(extra dial)
£3.30

The True Angle setting and measuring gauge is a very simple tool, but involves some very careful design and precision manufacture. Basically it's two transparent plastic arms that rotate around a common pivot at one end. One arm has a 360° protractor scale marked on it, and both have a central axis line running through the pivot point. Simply open it out to the desired setting and read the angle off from the

protractor. What could be easier?

Unlike some other protractor tools, the clarity and visibility of the angle scale is excellent. The protractor is marked off in degrees, so you can easily read angles to 0.5°. I found the visibility good for general work.

There's also an 'add-on' available which gives even greater clarity – a larger diameter disk that slips over the pivot point and presents a bigger scale. Simply make sure that the zero position aligns exactly with the zero on the protractor arm, and off you go.

While all of this is straightforward, the effectiveness of the tool comes from its precision. The datum lines fall exactly on top of each other and the two arms, when folded, align perfectly, so the pivot point is extremely precisely positioned. The markings on the scale are clear and it all works very effectively.

So if your work requires you to set or measure angles very accurately, this could be a valuable addition to the tool kit. And given its accuracy, it's reasonably priced. It's available in four sizes, from 178mm up to 547mm. I tried out the second biggest version, with arms 457mm long.

VERDICT

PROS ■ Precise angle setting and measurement

CONS ■ Nothing obvious

VALUE FOR MONEY ■■■■■■

PERFORMANCE ■■■■■■

FURTHER INFORMATION

- Brimarc, for product details and stockists
- 0845 330 9100
- www.brimarc.co.uk



£6.99
(250mm)

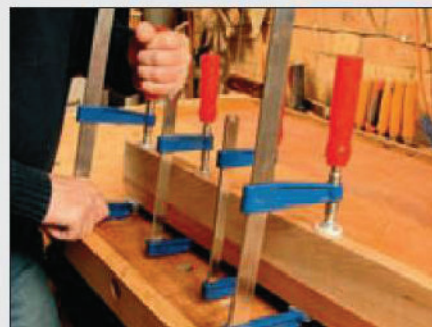
£4.25
(150mm)

Draper quick-action cramps

They say you can never have enough cramps! I have a pile of these Draper F-cramps in my workshop and turn to them regularly when I have little clamping jobs to do. There are no bells or whistles – just a plated carbon steel bar with cast iron fixed and sliding heads and a sturdy hand screw. They come in four sizes – 150, 200, 250 and 300mm long. The two middle sizes have a throat depth of 80mm, while the shorter and longer versions are 50mm and 120mm.

The fixed and swivel shoes come with protective pads, but in my experience these soon get lost or misplaced, so you'll need to use another means of avoiding damage to delicate workpieces.

I've used cheaper F-cramps in the past, but the quality often isn't there. For example, the alignment of the screw action with the bar can be imprecise. It's worth paying a bit more for a better quality product, and these Draper versions are a definite step-up without breaking the bank.



Little and large in clamping action

VERDICT

PROS ■ Handy, effective and economical

CONS ■ None

VALUE FOR MONEY ■■■■■■

PERFORMANCE ■■■■■■

FURTHER INFORMATION

- Draper
- 02380 494333
- www.draper.co.uk



The basic integral protractor dial



The larger disc gives even better visibility



£3.30

Brennenstuhl Safe-Box

This is an unusual workshop aid, but one that you might find useful if you need to use extension cables for any length of time. It's simply a box to enclose a single extension socket and plug and keep them safe and secure. It will take a standard extension socket and plug, or the in-line connectors that you often find on powered garden tools. The cables are securely held in robust push-in cable clamps and the top clips tightly in place when closed. There's even a mounting arrangement on the back, so you can fix it neatly to the wall if you need a more permanent fixture.

The box will keep the connections safe from young children (if you let them loose in the workshop). If you use it outdoors it'll protect the connection from light rain. And you won't cut off the power by inadvertently separating plug from socket as you work. So this is a useful aid for those specific circumstances when you need to work further away from your power sockets than normal.



Push-in clips hold the flex securely



The rear bracket allows wall mounting

VERDICT

PROS ■ A useful safety aid, if you need it
CONS ■ Not available in pink

VALUE FOR MONEY ■■■■■
PERFORMANCE ■■■■■

FURTHER INFORMATION

- Axminster Power Tool Centre
- 0800 371822
- www.axminster.co.uk

Trend MultiScribe



£34.66

This is an unusual multi-purpose tool from Trend. The pack describes 15 functions, though some are variants on a common theme. Basically the multiscribe is a variable square. The plated steel arm can be set up either at right angles or in line with the anodized aluminium stock. The end of the stock is brought to a 90° point, so the tool can be used to draw 45° angles to the right or left.

The stock incorporates a small level vial so the tool can be used for checking vertical and horizontal angles. Holes at either end of the bar can hold a pencil tip for scribing, or a string, so you can use it as a plumb bob.

If you butt the angled end of the stock against the edge, you can scribe around convex edges. So it's a versatile marking and levelling tool – it even has an integral pencil sharpener.

But as with most multi-function tools it isn't likely to excel in all areas. For example, in use as a mitre square, the length of the stock in contact with the workpiece is only around 25mm, so it won't be as accurate as

a dedicated tool. But if you like the idea of multi-purpose tools, then you might find this interesting. It's solidly made and well finished, in keeping with other Trend products.

VERDICT

PROS ■ A lot of functions in one tool
CONS ■ Jack of all trades, master of none

VALUE FOR MONEY ■■■■■
PERFORMANCE ■■■■■

FURTHER INFORMATION

- Trend Machinery
- 01923 212497
- www.trendmachinery.co.uk



The stock incorporates a small spirit level



The angled arm is perfect for marking mitres

Hock plane blades and cap irons



When I reviewed a range of quality blades some while ago (in *The Woodworker* November 2007), I'd wanted to include a sample of Ron Hock's offerings, but I couldn't get my hands on them at the time. But I managed to catch up with them for this review.

There are two types of blade in the range, I opted for the high carbon steel variety, but you can also choose an A2 cryogenically treated steel version. The carbon steel blades take a marvellous cutting edge, while the A2 variety might need sharpening a bit less frequently.

The cap iron is a full 3mm thick and its edge was surprisingly sharp itself – in fact sharper than some new plane blades I've seen in the past. The cap iron has a very slight bow – I measured it at around 0.6mm. This ensures that the tip of the iron presses tightly against the blade to eliminate the chance of the cutting action stalling through chips wedging under the iron. The downside

of the arrangement is that when the double iron is tightened up, the blade bows very slightly, so doesn't contact the frog across the whole face of the blade. But this is very slight compared to the pressed steel cap irons on mass-market planes, and didn't affect the cutting performance.

The blade was absolutely razor-sharp straight out the wrapping – able to shave the hairs of the back of my hand! There aren't many blades on the market for which you can say that. It didn't need any fine-tuning before I put it into action. The timber came out glassy smooth, and the cutting action was effortless. I was able to take continuous shavings as thin as 0.001in – so thin they were transparent.

Both types of blade and chipbreakers are available in to fit planes from No 3 size right up to No 8. A double iron from the Hock range would give your planes a big step up in performance. Incidentally, the prices given above are for a high-carbon steel blade for No 4/5 planes.

Gorilla Glue

Even if you haven't tried it, I'm sure you'll have seen it advertised – the image on the bottle is pretty strong, as is the glue. Gorilla Glue is one of the polyurethane glues, which is a bit different from other readily available glues. It bonds a wide range of materials, including wood, stone, metals and ceramics. It gives a very strong bond and is waterproof, which to my mind is its prime advantage for woodworkers. If you're doing an outside project, like a garden bench, then this could well be the glue for you.



In action it cures better if there's a bit of moisture in the timber – just a bit, not soaking wet. So if your timber is very dry (less than 10 per cent moisture content), moistening tenons with a slightly damp cloth before inserting them into their mortises is a good strategy.

When the glue hardens the squeeze-out sets into a hard foam. This is easily cut away with a chisel. One thing to watch for is that the glue will stain your fingers – you can't just wash it off as you can with PVA glue, so use gloves when working with it.

Gorilla glue comes in five Imperial sizes, from 2oz up to 36oz. Once opened, the shelf life is one year, so don't buy a bigger bottle than you're likely to use in that time.



The squeeze-out is easily trimmed using a chisel

VERDICT

PROS ■ Strong, waterproof and versatile

CONS ■ Harder to clean up than PVA

VALUE FOR MONEY ■■■■■■■■■■
PERFORMANCE ■■■■■■■■■■

FURTHER INFORMATION

- Brimarc (for stockists and technical data)
- 0845 330 9100
- www.brimarc.co.uk



The blade produces ultra-thin shavings

VERDICT

PROS ■ Unbelievable cutting performance
CONS ■ ...at a relatively high price

VALUE FOR MONEY ■■■■■■■■■■
PERFORMANCE ■■■■■■■■■■

FURTHER INFORMATION

- Classic Hand Tools
- 01449 721327
- www.classichandtools.com



£11.17

Fisch plug cutter

These cutters produce precise plugs, either for plugging screw holes or, if you cut parallel to the grain, short dowels. The cutters are available in 6, 8 and 10mm diameters. The cutting action is a step above the rather cruder multi-spur plug cutters, since the cutting edges are precisely machined from a single bar of steel. Although the hex shank is designed for use in quick change adaptors I prefer to use this type of tool in a drill stand or drill press, because that gives more accurate results, and is safer than working freehand.

I tried out the 8mm cutter, which had a very smooth cutting action. It produced plugs which I measured at 7.9 mm diameter, which would be a good sliding fit into an 8mm hole. A quality product.



For best results, use the cutter in a drill stand

VERDICT

- PROS** ■ Clean cutting action
CONS ■ Best used in a drill stand

VALUE FOR MONEY ■■■■■
PERFORMANCE ■■■■■

FURTHER INFORMATION

- Axminster Power Tool Centre
- 0800 371822
- www.axminster.co.uk

Faithfull folding rule



£5.82

This type of rule might look a bit old-fashioned these days, but it has some advantages over tape rules. For example, you can use it for drawing straight lines and it won't sag if you're measuring across a gap.

Faithfull have brought the design up to date by providing this rule in bright yellow ABS plastic. One side is marked in inches (36in) and the other in mm (1m). The metric side has a bevelled edge which is helpful in avoiding parallax errors in reading off measurements or marking. The markings are very visible. It's not as accurate as a rigid steel rule, but more manageable, folding down to 265mm long. It could be useful for a mobile toolkit.

VERDICT

- PROS** ■ Clearly visible markings
 ■ Bevelled edge
CONS ■ Not as precise as a steel rule

VALUE FOR MONEY ■■■■■
PERFORMANCE ■■■■■

FURTHER INFORMATION

- Toolbank
- 0800 0686238
- www.toolbank.co.uk

from
£3.40



Faithfull rasps

There's not a lot to say about these tools. They're nicely made traditional rasps, with comfortable moulded handles and an effective cutting action. I looked at the 10in half-round cabinet rasp and the 12in flat rasp. There's also an 8in flat rasp in the range. If you need a rasp for rough shaping of timber, then these would be a good and economical solution.

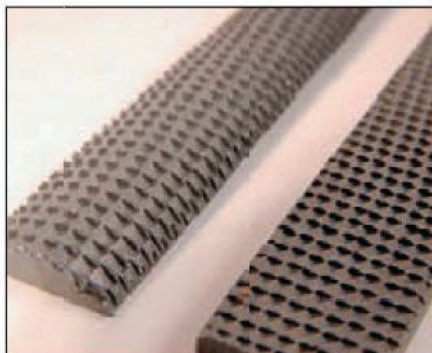
VERDICT

- PROS** ■ Effective cutting and comfortable handles
CONS ■ None

VALUE FOR MONEY ■■■■■
PERFORMANCE ■■■■■

FURTHER INFORMATION

- Toolbank
- 0800 0686238
- www.toolbank.co.uk



The range includes half-round and flat rasps



The rasps are ideal for general shaping jobs

Einhell KGSZ 2100

£89.95

When you consider just what goes into a mitre saw, how many accurately machined parts it needs in place to function well, it's amazing that machines can be made for this sort of money. So where have Einhell compromised in order to sell this saw for less than a hundred quid? Well, the aluminium castings and fence assembly aren't as accurate as the other two saws on test here. The motor is the loudest, while having the least power and the action isn't as smooth as the more expensive machines, but that's what you would expect if you're to believe the old adage 'you get what you pay for'. But this saw has good points too, it's not all cost saving and compromise.

Portability is good, the saw is lightweight and features a carrying handle and a small footprint overall. Balance is reasonably good but the saw would benefit from more front support because it does have a tendency to tip forward when the handle is pulled to the foremost position. Bolting the saw to a work surface would soon remedy this problem.

The dust extraction is very good, in fact, it was better than the Metabo on test here! The saw makes relatively accurate cuts too. A simple saw blade upgrade would also improve this saw's performance. The blade is probably the most critical component on a saw, and manufacturers do have a tendency to save a few pennies on bundled blades.

All in all, this saw has a lot to offer. It's a bit rough around the edges but the core components feel sturdy and it's capable of producing consistently accurate results.



Bosch GCM 8S Professional

The GCM 8 is a very nicely put together saw. The quality of build is high and Bosch have managed to get the weight down to 15kg for easy transportation. Having said that, it is the smallest saw on test here so does have an inherent advantage when it comes to manoeuvrability.

The feature set is good, with built-in laser, work-light and trenching facility. I did need to spend some time adjusting the laser because it wasn't accurately set up out of the box, which was a bit fiddly. But once set up accuracy is consistently good.

In use the saw performs well. Movements are smooth and the motor has ample power. Ideally the saw would be equipped with a brake, like its big brother the GTM 12, because the blade takes a while to stop. Noise levels are quite high too, but they're tolerable. The supplied

48-tooth TCT blade performs well and leaves a nice finish.

One thing I particularly like about this saw, and other Bosch products, is that all the adjustable areas are coloured red and therefore very obvious.

£316.08



TESTED BY
BEN PLEWES



Metabo KGS 303 Plus

£481.75

SPECIFICATION

Motor rating	1700W / 230 V
Cutting width at 90/45°	205/145mm
Cutting depth at 90°	65mm
Adjustment turntable	right 45°, left 45°
Saw blade diameter	250 x 30mm

VERDICT

This one's for weekend woodworkers dealing with mainly softwood. For the weekend use and reasonable results then the Einhell is certainly worth a look.

- PROS** ■ Price ■ Functionality includes trenching facility
- CONS** ■ Blade supplied could be much better ■ Noise level very high

VALUE FOR MONEY 
PERFORMANCE 

FURTHER INFORMATION

■ www.einhell-uk.co.uk

The Metabo is a premium machine with little in the way of compromise when it comes to build quality. The motor is relatively quiet and starts up gently. When up to speed the saw cuts smoothly, with the supplied 48-tooth blade performing well. Noise levels are fairly low for this size of machine and the blade stopping time is reasonable.

The fence setup is a step away from the norm; two adjustable aluminium extrusions are bolted on to a cast aluminium framework. It's a nice design because both left and right sides of the fence can be adjusted to give maximum support to a work piece. They also give a good degree of height for supporting deeper cuts.

When looking over the machine it's evident that the Metabo is lacking in the attention to detail applied to the Bosch, but build quality and accuracy is on a par. Cutting capacities are good.

As is common with mitre saws, dust extraction is not that great. I tested the machine with a vacuum extractor instead of the supplied bag so if you're planning on using this machine in a workshop for prolonged periods of time I would recommend using a dust mask.

Metabo's laser solution is supplied with the machine but not fitted. It seems odd to have to fit it to the saw separately but once secured in place, performance was very good and consistently accurate. The downside is that the laser runs off three watch type batteries (2x additional sets supplied) which will have to be periodically replaced. Other saws in this class tend to use the same power source as the saw itself to feed the laser.



SPECIFICATION

Motor rating	1400W / 230V
Adjustment turntable	right 58°, left 50°L
Bevel setting	47° left
Saw blade diameter / bore size:	216 / 30mm
No-load speed	5000rpm
Weight	15kg

VERDICT

It's ideal for those who need a small saw that's easy to move around on site, and those who need a good quality mitre saw for a small workshop.

- PROS** ■ Quality of build ■ Light weight and easy to maneuver ■ Built in laser and work lights
- CONS** ■ Noise levels on the high side

VALUE FOR MONEY 
PERFORMANCE 

FURTHER INFORMATION

■ www.bosch-pt.com/uk



SPECIFICATION

Motor output/voltage	1,8 kW/230 V
Cutting width at 90/45°	300/205mm
Cutting depth at 90/45°	81/54mm
Adjustment turntable	right 60°, left 50°
Saw blade diameter	250 x 30mm

VERDICT

A no nonsense accurate saw with high build quality and a long life. Due to its size, weight and design it's ideally suited to a workshop situation where it's not going to move around much.

- PROS** ■ Excellent build quality ■ Soft start and not overly noisy ■ Trenching facility
- CONS** ■ No carrying handle ■ Heavy and difficult to transport ■ Laser has to be fitted separately

VALUE FOR MONEY 
PERFORMANCE 

FURTHER INFORMATION

■ www.metabo.co.uk

Robert Sorby Micro woodcarving tools



Robert Sorby Sharpening/honing kit

This is an economical kit that's an ideal companion to the carving tools, which have to be honed to a polished finish for them to be at their best.

Designed to be mounted on a lathe fitted with a three-jaw expanding/contracting chuck, or something similar, it is intended for fairly light use, and consists of two MDF discs 127mm in diameter, a drive screw, abrasive discs with assorted grits, a leather disc for honing purposes, and the honing compound to go with this.

The mandrel can also be fitted in a bench-mounted power drill,

allowing it to be used with the disc either vertical or horizontal.

The leather disc is attached to one of the MDF discs, and the abrasives secured to the other. The discs are self-adhesive, making changeover quick and easy. The honing compound is simply held against the leather to coat it lightly; this then provides a perfect buffing surface for the tools.

The system works well and a good selection of sundries is included. Don't expect to reshape your standard turning tools with it, though.

Low-relief carving is an excellent way to get into the carving habit, but something more than ordinary chisels and gouges are needed. The range of carving tools available is almost without limit, but a well-known Sheffield tool manufacturer has the answer for the woodworker wanting to branch out into this area of fashioning wood.



TESTED BY GORDON WARR

Robert Sorby is believed to be the oldest tool manufacturer in the country, with a history extending back over two hundred years. As well as offering a wide range of standard-size carving tools, the company also produces a set of what they call micro carving tools. These are intended primarily for surface carving, lettering and chip carving. There are twelve tools available, all with an overall length of around 160mm. They are designed to be used while held in the palm of the hand; no mallet is needed.

All twelve are produced from a bar of 4mm diameter, and are classified as follows: one each of the square chisel, skew chisel, dog leg chisel, veiner and V parting tool, plus two bent and five straight gouges in sizes from 2 to 5mm wide. They are fitted with polished ash handles, which have a flat area on one side so that they don't roll off the bench. Solid brass ferrules enhance the overall design, and allow the tools to be suspended from a tool rail.

Mint and boxed

These tools can be bought separately or as full sets, and the sets are available either in a cardboard box or a wooden case. The wooden box is cleverly arranged in the way it holds the tools. Both halves of the box are of equal depth, and each has a brass rail across its centre. The rails are notched, and the ferrules are grooved so as to engage with the notches. This feature not only gives positive positioning to the gouges, but allows them to be suspended six to each side when the box is opened up, thus offering convenient racking for them all and easy selection as each may be required. It's a simple yet clever idea.

Ready to use

The tools come ready honed for immediate use. Carving tools have to be sharper than sharp for them to do their job properly, especially when cutting is by hand pressure. I limited my trials to cutting some simple lettering, always a popular project with many applications. Ease and success in carving depend on the choice of wood; softwoods should be avoided and moderately dense hardwoods chosen for the best results.



VERDICT

These tools are well up to the standard always associated with Robert Sorby, and are a pleasure to use.

- PROS** ■ Well balanced for single-handed use
 ■ Supplied super-sharp ■ Clever storage case
- CONS** ■ Hard to fault, except that they sometimes cut where they shouldn't!

VALUE FOR MONEY ■■■■■■
PERFORMANCE ■■■■■■

FURTHER INFORMATION

- Robert Sorby
- 0114 225 0700
- www.robert-sorby.co.uk

£23.75



Start by sharpening on an abrasive disc



Coat the leather disc with honing compound



Polish the tool by touching it against the disc

Random orbit and palm sanders

MAKE & MODEL		FEATURES				
RANDOM ORBIT SANDERS						
		Power (watts)	Disc diameter (mm)	Weight (kg)	Accessories	Price
Erbauer	ERB300XP	300	125	2.1	storage case, dust bag, dust box, sanding discs	£29.99
Draper	PT125V	480	125	1.3	dust bag	£32.75
Draper Expert	RS230K	230	125	1.4	storage case, sanding discs	£34.95
Axminster	RAS 125	430	125	2.2	storage case, dust bag	£34.96
Skil	7402	270	125	1.3	dustbox, sanding disc	£41.71
Ryobi	ERO 2412V	240	125	1.7	storage case, dust bag	£44.99
Skil	7460	430	125	2.3	storage case, sanding discs	£50
De Walt	DW423	220	125	1.6	dustbag, vacuum adapter	£52.24
Bosch	PEX400AE	400	125	1.9	micro filter dust box	£66.98
Makita	BO5012	220	125	1.2	dust bag	£74.95
Ryobi One+	Cro-180M	18V	125	2.2 (inc battery)	sanding discs	£100 (inc battery)
Metabo	SXE 425	400	125	2.2	dust bag	£109.94
Festool	Rotex RO150	720	150	2.3	storage case, sanding discs	£368.95
PALM SANDERS						
		Power (watts)	Plate size (mm)	Weight (kg)	Accessories	Price
Einhell	BSS105	105	140 x 95	1.4	storage case, vacuum adapter, selection of abrasives	£18.98
Draper	PT200	200	112 x 104	2.0	dustbag, selection of abrasives, perforating plate	£25.99
Ryobi	EOS-2410N	240	115 x 108	1.6	storage case, dustbag, perforating plate, selection of abrasives	£29.99
Makita	BO4553	160	116 x 104	0.95	dustbag, selection of abrasives, perforating plate	£47.99
Bosch	GSS 140A	180	113 x 105	1.4	dustbox, selection of abrasives, perforating plate	£56.40
Metabo	FSR 200 Intec	200	114 x 102	1.25	storage case, dustbox, selection of abrasives, perforating plate	£59.99
De Walt	D26441	230	115 x 108	1.4	dustbag, selection of abrasives, perforating plate	£69.99
Festool	RTS 400EQ	200	130 x 80	1.1	storage case, dustbag	£195.05

Looking for new kit for your workshop? Our reference section brings together details of all the woodworking machinery we've tested in recent years that's still available today. This month's updated checklist looks at belt, bobbin and combination sanders, with a total of 19 tools featured. It includes: ■ a specification summary ■ the current price ■ manufacturer contact details, including website addresses ■ our verdict on the machine ■ the issue of *The Woodworker* (or in a few cases, our sister publication *Practical Woodworking*) in which we originally reviewed it, so you can re-read the full test report if you wish. Next month we'll be updating our checklist on biscuit jointers.

FURTHER INFO		VERDICT	
Contact	In our opinion	Rating (out of 5)	Tested
Screwfix Direct 0500 414141 www.screwfix.com	Unusual machine supplied a small plastic dustbox and a large cloth bag, can be connected to workshop vacuum. Smooth running and efficient. Good value. Tested in <i>Practical Woodworking</i> , Feb 2007	4	Feb 2007*
Draper 02380 494333 www.draper.co.uk	Adequate but unremarkable machine best suited to the occasional user. Robustly made, though not as smooth-running as some	3½	Jan 2006
Draper 02380 494333 www.draper.co.uk	Well designed tool with padded grip and smooth-running motor	4	July 2007
Axminster 0800 371822 www.axminster.co.uk	An efficient machine with a rubberised body and good dust extraction. Let down by rather high level of vibration	3	Jan 2006
Skil 01895 838791 www.skileurope.com	Palm-sized sander with variable speed. A reasonable performer for a realistic price	3½	Feb 2005
Ryobi 01628 894400 www.ryobipower.co.uk	Keenly priced random orbit palm sander. Variable speed and rubber insulated grip make it versatile and comfortable	4	Jan 2006
Skil 01895 838791 www.skileurope.com	Well designed sander with efficient filtered dust collector and variable speed. Fitted with unnecessary pressure indicator	3½	Oct 2007
De Walt 0700339258 www.dewalt.co.uk	A robust and capable machine equipped with dust bag incorporating integrated vacuum adapter. Good quality tool, ideal for site use	4	Jan 2006
Bosch 01895 838743 www.boschpowertools.co.uk	A well made machine with comfortable handles and variable speed. Incorporates Micro Filter dust extraction box with paper filter. Well-balanced and smooth-running. A pleasure to use at an attractive price	4½	Jan 2006
Makita 01908 211678 www.makitauk.com	High quality pro palm random orbit sander. Smooth and powerful with variable speed and disposable dust bags	4½	Jan 2006
Ryobi 01628 894400 www.ryobipower.co.uk	Cordless sander supplied without batteries. Reasonable performance. No dust bag or extraction. Tested in <i>The Woodworker Autumn Special 2007</i>	3½	AS 2007
Metabo 02380 732000 www.metabo.co.uk	A high quality machine with well-designed body and disposable dust bag. Integrated dust extraction adapter. Very smooth-running and comfortable to use	4	Jan 2006
TTS Tooltechnic Systems GB Ltd 01284 760791 www.festool.co.uk	Top quality pro dual action gear drive random orbit sander. Use for coarse shaping, sanding and polishing. Faultless performance. Seriously professional price	4	Nov 2006
Contact	In our opinion	Rating (out of 5)	Tested
Toolbank 0800 068 6238 www.toolbank.com	Budget-priced palm sander with delta-shaped sanding plate. No dustbag, but vacuum adapter included. Good for occasional use	3½	March 2007
Draper 02380 494333 www.draper.co.uk	Budget-priced sander with powerful motor. Good value, though tiring to use	4	March 2007
Ryobi 01628 894400 www.ryobipower.co.uk	A smart and well-made machine for a bargain price. Good performance and comfortable to use	4½	March 2007
Makita 01908 211678 www.makitauk.com	Sturdy workmanlike machine ideal for site use, though supplied with a surprisingly short cable	4	March 2007
Bosch 01895 838743 www.bosch.co.uk	High quality pro machine with Micro Filter dust collection. Efficient, well-made, competitively priced and comfortable to use	4½	March 2007
Metabo 02380 732000 www.metabo.co.uk	High quality machine with comfortably shaped body and efficient dust collection. Very smooth running	4½	March 2007
De Walt 01753 567055 www.dewalt.co.uk	Solid professional machine with rubberised grip and tubular dust bag. Integrated vacuum adapter	4	March 2007
TTS Tooltechnic Systems GB Ltd 01284 760791 www.festool.co.uk	A top quality pro sander. Variable speed and impressive dust collection. Versatile but pricey	4	March 2007

CLOCKS

CLOCK BUILDING SUPPLIES

We have in stock the widest range of mechanical and quartz clock movements, kits & case parts. Keen prices, fast delivery & personal service.

MARTIN H DUNN LTD

The Clock Gallery, North Killingholme,
North Lincolnshire DN40 3JQ

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

FREE COLOUR CATALOGUE

Showroom Open:

Mon - Fri 10am - 5pm Sat 10am - 4pm

Tel: (01469) 540901

Woodworking Materials

Large selection of products

Tools & Accessories (Quartz & Mechanical), Barometers, Thermometers, Cabinet furniture, Saws, Plans, Kits, Pouches, Adhesives, Abrasives etc.
For catalogue please send 4 x 1st class

Chris Milner Woodworking Supplies
(Dept PWW), Beresford Lane, Woolley Moor,
Nr Alfreton, Derbyshire DE55 6EH

Tel/Fax: 01246 590 062

COURSES



THE CHIPPENDALE INTERNATIONAL SCHOOL OF FURNITURE

Our school is unique. Each of our 20 students enjoys individual tuition and classes taught by some of the UK's leading experts. They also have 1500 hours of practical bench-time.

But what makes our school stand out from the rest is the buzz of 20 people learning from each other, sharing ideas, solving problems together. No other school can match this experience.

The 30-week course starts in October. Contact us now to reserve one of the last remaining places for 2008

www.chippendale.co.uk

Tel: 01620 810680

Email: info@chippendale.co.uk



JOHN LLOYD

LEARN A NEW SKILL
IN 2008
INTENSIVE COURSES IN:

FINE FURNITURE MAKING

ANTIQUE FURNITURE
RESTORATION

VENEERING & LAMINATING

TRADITIONAL
HAND FINISHING



www.johnlloydfinefurniture.co.uk
01444 480388 | Sussex

GET WOODWORKING .COM

GETWOODWORKING The ultimate woodworking resource

COURSES

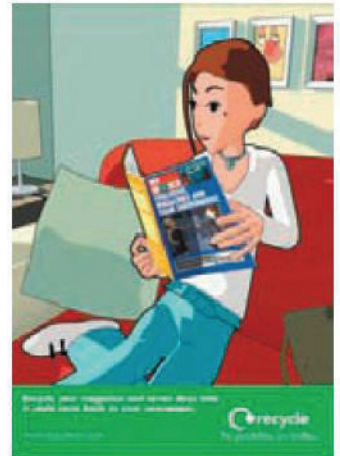


BOB LAMBERT Woodworking & Routing Academy

Qualified woodworking
instructor of eighteen
years teaching and

have been a woodworker all my life.

I now run my own woodworking academy and offer tuition in Basic woodworking, Routing, Cabinet making, Furniture making, Power tool woodworking and Basic woodturning.
www.woodworkingacademy.co.uk
Telephone: 01623 408343 or Email: skills.development@ntlworld.com



FINISHING PRODUCTS



TopOil

For wooden
kitchen work tops
and general
interior joinery



VOC
compliant

- Osmo TopOil is a special oil and wax combination made with natural plant oils and waxes
- Offers highest coverage of any oil on the market (1 litre covers approx 12m² with 2 coats)

OSMO UK
Unit 24 Anglo Business Park
Smeaton Close, Aylesbury
Buckinghamshire HP19 8UP

Tel: 01296 481 220
Fax: 01296 424 090
www.osmouk.com
info@osmouk.com

KITS & HOBBIES

HOBBY'S NEW 2009 Annual
The Modelmakers Yearbook • No. 39 • 304 Pages
p&p FREE £3.15



W.Hobby Ltd. (Dept WW)
Knight's Hill Square, London SE27 0HH
t: 020 8761 4244 e: mail@hobby.uk.com
www.hobby.uk.com

Available from WH Smith
and leading newsagents or direct



To advertise in
The Woodworker
call Ben on:
01689 899 280
or email:
ben.rayment@magicalia.com

MUSICAL INSTRUMENTS

Violin and Guitar Makers' & Repairers' supplies

Choose from our wide selection of tonewoods, tools, parts, accessories and books for amateur and professional alike.

Callers or Mail Order welcome. Catalogue £1.50

Touchstone Tonewoods Ltd
44 Albert Road North, Reigate, Surrey RH2 9EZ
Tel. 01737 221064 Fax. 01737 242748

ROCKING HORSES



Specialising in quality rocking horse accessories for over 40 years



Visit us now at

www.margaret-spencer.co.uk

MARGARET SPENCER & Co.

TELEPHONE: 01621 828234

E-MAIL: SALES@MARGARET-SPENCER.CO.UK

CHAPEL COTTAGE, HOWE GREEN ROAD, PURLEIGH, ESSEX, CM3 6PZ

SUPPLIERS OF QUALITY ACCESSORIES FOR ROCKING HORSE MAKERS AND RESTORERS

www.myhobbystore.com

TIMBER SUPPLIES

Wessex Timber
WORLDWIDE HARDWOOD & SOFTWOOD
Stockholders & Manufacturers Est. 1974

ASH, BEECH, CEDAR, CHERRY, CHESTNUT, DOUGLAS FIR, ELM, IROKO, JELUTONG, LIME, MAHOAGANY, MAPLE, OAK, PITCH & YELLOW PINE, POPLAR, SYCAMORE, TEAK, WALNUT ETC.

FULL MACHINING & JOINERY SERVICE
SHEET MATERIALS CUT TO SIZE & CNC ROUTING
INTERNATIONAL DELIVERY, ANY QUANTITY
VISITORS BY ARRANGEMENT

Tel: 01452 740610 (Fax: 740407)
Longney, Gloucester, GL2 3WT
www.wessextimber.co.uk

good timber

Bespoke Joinery
European/Exotic hardwoods & machining service

Courses in Routing & Woodturning
Woodturning & Woodworking supplies
Finishes, books/videos, hand & power tools

For a free price list, estimate or more info
t: 01327 344550 • f: 01327 349997
www.goodtimber.com

New Creation Farm
Furnace Lane, Nether Heyford, Northants NN7 3LB
Opening times:
Monday-Friday: 8.00-12.30 and 13.30-17.00
Saturday: 9.00-12.30 Closed: Sunday/Bank holidays

TIMBER SUPPLIES

INTERESTING TIMBERS

Wide selection of English grown timbers in most sizes. Air and kiln dried. Boards prepared to size. Turnery blanks, spalted woods and burrs also available. Send for details (SAE please) or come and see us (please ring first). We will ensure a helpful personal service.

David and Catherine Simmonds,
Wells Road, Emborough (13), Bath BA3 4SP

Tel: 01761 241333

www.interestingtimbers.co.uk

W.L. West & Sons Ltd
Selham, Peperworth, West Sussex, GU28 0PJ
t: 01798 861611 f: 01798 861633

- Hardwoods Temperate, Tropical & Exotic
- Wood finishes
- Australian Burrs
- Woodturning Blanks 15+ Species available
- Woodturning Courses
- Woodworking Machinery
- Fencing Products
- **RECORD POWER**
- Woodworking Tools
- Bespoke Garden Furniture

Timber & Tools for D.I.Y • Carving
Woodturning • Furniture Projects

shop@wlwest.co.uk

www.wlwest.co.uk

S.L. Hardwoods Ltd

QUALITY HARDWOOD STOCKIST

Quality Kiln Dried Hardwoods

Ash, Beech, Birch, Cherry, Iroko, Maple, Oak (White, Red & Euro) Pine, Sapele, Walnut and many more...

- Cutting & Planing Service for our timbers
- Cutting & Edging Service for our Veneered MDF & Moisture Resistant MDF
- Please call for a quote

RHINOBOND

1 Ltr - £11.75 (1kg)
500ml - £6.45 (500g)

Polyurethane Wood Adhesive

Tel: 0800 731 6345 (freephone) www.slhardwoods.co.uk
390 Sydenham Road, Croydon, Surrey, CR0 2EA

The latest innovations in power tool technology at the BEST PRICES



PASLODE IM65A
Angled 2nd Fix Nail Kit with 2 x Batteries and Charger
PLUS 3
FREE boxes of brads
GREAT VALUE

OUR PRICE £349.00 inc VAT

FREE UK DELIVERY - ONLY 50 AVAILABLE

Order by phone: 01284 716010
Order online: www.angliatoolcentre.co.uk - quoting GW/ATC

Great prices on Paslode Nails & Brads - check out our website for details



ANGLIA TOOL CENTRE
A Ridgdon Group Company



PLUS FREE

7 - 9
Cratfield Road
Moreton Hall
Bury St. Edmunds
Suffolk IP32 7DF

Tel 01284 716010
Fax 01284 716019
www.angliatoolcentre.co.uk

VENEERING & LAMINATING?

- * AirPress Portable Bag Vacuum Pressing Kits *
- * Vacuum Pumps - Vinyl Bags - A full range of Accessories *
- * BenchPress Rubber Membrane Vacuum Presses & Heating Hoods *
- * Pre-heaters for thermo-formable Corians, etc * Vacuum Chucks *

The Air Press Company Limited - Tel: 01725 514426
Buy on-line: www.airpress.co.uk & we'll dispatch it next day!

TOP QUALITY - LOW PRICES
YSM - VITEX ABRASIVES

KK532F Starter Pack (4 Metres) £12.95
inc. VAT and UK post. 1/2 metre each of grits
80, 120, 150, 180, 240 320, 400, 600

Also the NEW * GRIP - A - DISC *
Power Sanding/Finishing System

Plus lots of Belts, Discs, Stars, Low cost KK114
We also stock WOODTURNERS SUPPLIES
Timber/Bowl Blanks/Tools/Waxes/Finishes
Glues/Chucks/Glassware/Cutlery/Sundries.

SAE FOR CATALOGUE
Jill Piers Woodturning Supplies
2 Kimberley Villas, Southmill Road,
BISHOPS STORTIFORD, HERTS CM2 3DW
Tel/Fax: 01279 653760

MAIL ORDER
NARROW BANDSAW
BLADES
MANUFACTURED TO
ANY LENGTH
PHONE NOW FOR QUOTATION
OR PRICE LIST

TRUCUT

Spurside Saw Works, The Downs,
Ross-On-Wye, Herefordshire HR9 7TJ

Tel: 01989 769371
Fax: 01989 567360



To advertise in The Woodworker
call Ben on: 01689 899 280
email: ben.rayment@magicalia.com



TEWKESBURY
SAW COMPANY LTD

Did you miss our instore demonstration of Trends new modular window system?
If so, please call 01684 293092

STARTRITE







Tewkesbury Saw Co Ltd
Newtown Trd Est, Tewkesbury
Glos GL20 8JG Tel: 01684 293092
www.tewkesburysaw.co.uk Email sales@tewkesburysaw.co.uk

GET
WOODWORKING
.COM

Register Free Today
and get these great benefits

- Free entry into our monthly members prize draw
- Your own gallery area to show off your projects
- Unlimited access to site articles and reviews
- Free reign on the **GW** Forum

GETWOODWORKING *The ultimate woodworking resource*

SHOP GUIDES

BUCKINGHAMSHIRE High Wycombe

isaac lord
HARDWARE & TOOLS SINCE 1892

Tel: 01494 855200 Fax: 01494 855254

- Power Tools & Hand Tools
- Power Tool Repairs
- Sharpening Service
- Woodworking Courses

website: www.isaaclord.com
email: info@isaaclord.co.uk
132 Chesborough Road,
High Wycombe
Bucks. HP11 2DB



BUCKINGHAMSHIRE Milton Keynes

POLLARDS
ESTD 1864

49/51 Aylesbury Street, Bletchley, Milton Keynes MK2 2BQ

TEL: 01908 275221

FAX: 01908 271552

Open: Monday - Friday: 9.30am-5.00pm

Saturday: 9.00am-5.00pm

sales@pollards.co.uk

www.pollards.co.uk

A. B. H. M. C. R. S. P.



GLOUCESTERSHIRE Mitcheldean

Toolite

The Meads, Mitcheldean, Gloucestershire GL17 9DL

TEL: 01294 544 521

FAX: 01294 542 532

•Dealer demonstrations & courses available.

•Main stocked for DeWalt, Bosch, Trend & Titan

www.toolite.org.uk

C. S. A. R. S. M. T. R. W. M. C. H. T.



HAMPSHIRE Portsmouth

C.R.M. Saw Company Ltd

17 Arnold Road, Waterlooville, PO7 7UP

TEL: 023 9225 5144/3202

FAX: 023 9226 0568

Mon-Fri: 9am-5.30pm, Sat 9am-12pm

www.woodworkingtools.co.uk

A. C. D. E. H. K. R. M. W. C. M. O. S. W.



HERTFORDSHIRE Cuffley

TILGEAR

Bridge House, 89 Station Road, Cuffley EN8 4TB

TEL: 01707 873434

FAX: 01707 870283

Open: Monday - Friday 9.30am-5.00pm

A. B. H. M. R. T. W.



W.SUSSEX Petworth

W.L. West & Sons Ltd
Selham, Petworth, West Sussex, GU28 0PJ

- | | | |
|-----------------|-------------------|-------------|
| HARDWOODS | Woodworking | BrMarc |
| Australian Burs | Machinery | Crown Tools |
| Turning Blanks | Chestnut Finishes | WOODTURNING |
| Wood Finishes | Sorty Tools | COURSES |

Free Open Mon-Fri 9am-5pm & Sat 10am-4pm

01798 861611 shop@wlwest.co.uk

www.wlwest.co.uk

RECIPED POWER

WEST YORKSHIRE Leeds

**GEO SPENCE AND
SONS LTD.**

105 WELLINGTON ROAD,
LEEDS LS12 1DX

Tel: (0113) 2790507,

Fax: (0113) 2636817

Mon.-Fri. 8am - 5pm Sat. 8am-12noon

H.F.W.M.C.S.M.F.A.D.

WEST YORKSHIRE Leeds

D.B. Keighley Machinery Ltd.

Victoria Place, Stanningly, Pudsey LS28 6LZ

TEL: 01132 574738

FAX: 01132 574280

Open: Mon-Fri: 9am-5pm

www.dbkeighley.co.uk

F. A. W. R. C. S. C. L. D. W.

ESSEX Leigh-On-Sea

Marshall & Parsons

We Are Power Tool Specialists.
Accessories and spares for leading brands
Sales, repairs, servicing for most brands
Open 6 days a week
Postal Service

1111-1115 London Road
Leigh-On-Sea, Essex
SS9 2JL

Tel: 01702 470 100

Fax: 01702 470 160

LONDON

Buck & Ryan
London's toolbox for 182 years

Over 30,000 tools and accessories
If Buck & Ryan don't stock it, or can't
get it for you, nobody can!

Shop 4, Victoria House,
Southampton Row,
London WC1 4DA

Tel: 0207 430 9898

www.buckandryan.com

SURREY Guildford

Buck & Ryan
London's toolbox for 182 years

Over 30,000 tools and accessories Choose
from over 220 brands
If Buck & Ryan don't stock it, or can't get it for you
nobody can!

14-18 Chertsey St.
Guildford
GU1 4HD

Tel: 01483 561 125

www.buckandryan.com

Your shop
could be here!

MyHobbystore.com
putting modellers first

BUY TWO PLANS ONLINE AND RECEIVE ONE FREE!

Please quote **FREE PLAN** when ordering online or by phone 01689 899200



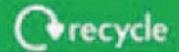
100'S OF
PLANS
AVAILABLE
ONLINE

ORDER YOUR
BACK ISSUES
ONLINE!

100'S OF PLANS AVAILABLE ONLINE INCLUDING:
BEDS, BOATS, CHAIRS, CHESTS, CLOCKS, DESKS, DOLLS HOUSES, DRESSERS, FURNITURE,
GARDEN FURNITURE, GUITARS, MUSICAL INSTRUMENTS, KITCHEN FURNITURE, GAMES,
MINIATURES, MODELS, STools, TABLES, TOYS, WAGGONS, WEAVING AND WORKSHOP



Recycle your magazine and seven days later
it could come back as your newspaper.



The positives are endless.

www.recyclewood.com

To advertise in The Woodworker
call Ben on:
01689 899 280

Classic Hand Tools

MAIL ORDER FOR THE FINEST HAND TOOLS

Lie-Nielsen, Auriou, Hock, Adria, Clenton, Veritas, Sorby,
Japanese Hand Tools, HNT Gordon, Clifton, Thomas Flinn & much more

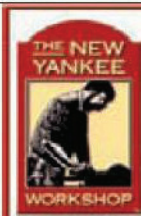
www.classichandtools.co.uk



THE PEOPLE FOR TOOLS
HAND, POWER TOOLS & MACHINERY SPECIALISTS

TOP BRANDS • TRADE PRICES • HUGE RANGE

WWW.DM-TOOLS.CO.UK



www.handytools.co.uk

We have a full range of New Yankee Workshop plans available to order online for immediate delivery!



ORIGINAL MARQUETRY

143 Bishopthorpe Road, Westbury On Trym, Bristol BS10 5AF.

Veneer & Marquetry Specialist Suppliers
Call for your free Catalogue Tel: 0117 944 2640

www.originalmarquetry.co.uk

TOOLBANK

www.toolbank.com

Tel: 0845 658 0357

Carpenters Pincers from **TOOLBANK**

Massive Spring Savings Promotion.

Over 50 % off

KPX101210

Only £9.99



While Stocks Last



Water Based & Oil Based Finishes

www.generalfinishes.co.uk



H. BEHLEN

America's leading range of Wood Care, Repair, Staining, Colouring & Finishing Products.

www.behlen.co.uk

New wood finishing forum
www.woodfinishing.info



Router cutters
Spindle tooling
Circular sawblades
Online catalogue & ordering

www.wealdentool.com

GETWOODWORKING.COM

GETWOODWORKING The ultimate woodworking resource

3000 Plans online...

www.myhobbystore.com

GET WOODWORKING .COM

**Register Free Today
and get these great benefits**

- **Free entry into our monthly members prize draw**
- **Your own gallery area to show off your projects**
- **Unlimited access to site articles and reviews**
- **Free reign on the **GW** Forum**

GETWOODWORKING *The Ultimate woodworking resource*

BACK ISSUES AVAILABLE FROM OUR READER SERVICES DEPARTMENT
AT £3.40 PER ISSUE, PLUS POSTAGE AND PACKING

CALL 01689 899228 TO ORDER YOUR COPIES

Every month we aim to bring you the best projects, the widest range of tests and the most useful techniques, building up into a complete library of essential woodworking knowledge.

If you've missed an issue, here's your chance to find that vital tool test or project.

If an issue is sold out, we can send you a photocopy of the feature at a discount price.



OCTOBER 2007
PROJECTS: Oak display cabinet, Fluted table, Chest of drawers restoration
FEATURES: Router jigs, Plane-making part 7, Screws
TURNING: Off-centre chucks, Rotunda moneybox, Thimbles
TESTS: Giant test: Whetstone grinders, Hammer bandsaw, Slidegrinder, Draper jigsaw, Axminster storage, Ryobi One+ drill/driver, Irwin wood bits, Skil sander, Dakota polishing kit, Festool TS55 blades, Axminster and SIP dust extractors, Bosch router, SIP bandsaw, Six of the best: Mallets
MACHINERY CHECKLIST



AUTUMN SPECIAL 2007
PROJECTS: Veneered sofa table, Incised carving, Mantel shelf, Kids' paint windows
FEATURES: Dowelling, Plane-making part 8, Thickneser jig
TURNING: Beech footstool, Burr oak bowl, Sanding on the lathe, Flutes and grooves
TESTS: Giant test: Jointers, Wox circular saw, Anant rebate plane, Bosch sander, Ryobi One+ tools, Irwin wood bits, Forge Steel planes, Hitachi circular saw, Draper trestles, Scheppach table saw, Makita bench thicknesser, Six of the best: Countersinks
MACHINERY CHECKLIST



NOVEMBER 2007
PROJECTS: Mahogany clock, Oak coffee table
FEATURES: Designing a router table, Planemaking part 9
TURNING: Two clocks, Collet chucking techniques
TESTS: Giant test – Circular saws, SIP spindle moulder, Tormek sharpening system, Hitachi laminate trimmer, Skil and Draper saws, Black & Decker drill, Dremel Multivise, Forge Steel block plane, Inkra gauge/rules, Metabo planer thicknesser, Scheppach router, Erbauer combi kit, Six of the best: G-clamps
MACHINERY CHECKLIST



DECEMBER 2007
PROJECTS: Oak double bed, Model tram, Pencil cases
FEATURES: Puzzle heaven, Building a router table, Anatomy of a drawer, Plug cutters, Weekend groover
TURNING: Wine tap and spigot, Gavel, Polishing on the lathe
TESTS: Giant test – Cordless drills, Faithfull whetstone, Draper honing guide, Hitachi cordless circular saw, Forge Steel tool sets, Draper planer, Axminster Odd-Jobs, Dremel Versatip, Leigh dovetailing jig, SIP workbench, Trend router, Six of the best: block planes
MACHINERY CHECKLIST



JANUARY 2008
PROJECTS: Writing slope, Miniature chest
FEATURES: The Harp maker, Router table, Drawer details
TURNING: Rugby ball trophy, Mug tree, Routing on the lathe
TESTS: Giant test – Bench mortisers, Makita planer, Dakota mallet, Axminster sanding pens, Draper bradawl, Irwin holesaws, Erbauer combi drill, Faithfull sash cramps, Worx drill, Woodstar and DeWalt table saws, Black & Decker Autoselect tools, JCB router, Veritas apron plane, Six of the best: Ear defenders
MACHINERY CHECKLIST



FEBRUARY 2008
PROJECTS: Traditional toolbox, Radiator cover, Picture framing, Hall mirror
FEATURES: Garden room, bench makeover, Glues 1, Carving with the router
TURNING: Hourglass, Textured bowl, Choosing the right chuck
TESTS: Giant test – Budget jigsaws, Site power tools, Faithfull spokeshaves, Draper hand drill, Axminster stones, Behlen stains, Rutlands magnetiser, Oneida Dust Deputy, Proxon belt sander, Record table saw, Veritas jack plane
Six of the best: Toolbox saws
MACHINERY CHECKLIST



MARCH 2008
PROJECTS: Pine dining table, Oak garden seat, Cold frame, Octagonal box
FEATURES: Garden room door, Table restoration, Glues 2, Cromwellian chair
TURNING: New series: Turning Basics, Nutcracker, Mirror
TESTS: Giant test – Router tables, Dakota T-track bolt kit, Hansen pencil sharpener, Crown plane handles, Makita cordless pin nailer, Behlen Master pickling stain, Erbauer drill driver, Veritas shoulder plane, Draper tool bag, Scheppach bandsaw, Woodstar router, Six of the best: Dust masks
MACHINERY CHECKLIST



APRIL 2008
PROJECTS: Pine dining chairs, Weather station, Garden seat
FEATURES: Joints without joints, Preparing stock timber, Cutting boards
TURNING: New series: Turning Basics 2, Gavel, Staircase finials, Competition winners
TESTS: Three orbital sanders, Woodster dust extractor, Metabo drill, Behlen DVD, Japanese chisels, Draper multi-tool, Faithfull callipers, Hermes sanding pad, Nobex square, DeWalt belt sander, Einhell bench sander, Record midi lathe, Festool plunge saw, AEG jumbo pack, Joint-Genie marking and track
MACHINERY CHECKLIST



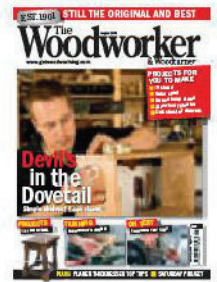
MAY 2008
PROJECTS: Flat-pack Shaker-style wardrobe, Piano stool, Music stand
FEATURES: Woodworker of the Year winners, Bathroom built-in, Joining without joints 2, Preparing stock timber, Making finger joints
TURNING: New series: Turning Basics 3, Pestle and mortar, Cheeseboard and knife
TESTS: Circular and bench planes, Makita jigsaw, Bosch Multi-tool, Draper power planer, Screwfix countersink, Axminster router, SIP lathe, DeWalt thicknesser, Veritas honing guide, SIP planer thicknesser, Marking gauges
MACHINERY CHECKLIST



JUNE 2008
PROJECTS: Ash chest of drawers, Gift box, Utile coffee table, Chopping board, Picture easel, Bookshelves
WORKSHOP: Joining without joints 3, Cutting beads and joints, Making finger joints
TURNING: Turning Basics 4, Turning fruit, Hors d'oeuvres dish
TESTS: Kreg K3, Makita drill, Faithfull magnetic head hammer, Sjoberg's QSH hold-fast, Einhell drill, Axminster hobby case, Dakota chisels, Draper multi tool, Woodstar thicknesser, Record bandsaw, Worx router, Scheppach mortiser, ITS cutter sets
MACHINERY CHECKLIST



JULY 2008
PROJECTS: Oak drawers, Oak fireplace surround, child's chair
WORKSHOP: Hand vs Machine – mortising, joining w/o joints – Miller Dowel
TURNING: Turning basics 5 – wood selection, light pulls, potpourri bowl
TESTS: Festool OF2200 router, Einhell compressor & vacuum, DeWalt cordless drill, Bosch GTM12 combination saw, Charmwood W583 planer thicknesser, Titan wet & dry grinder, Trend cutter and collet care, Axminster rule stop, Veritas surface clamp, Faithfull double ended scriber, Forge Steel carpenter's mallet
MACHINERY UPDATE



AUGUST 2008
PROJECTS: Ash shelves, Fumed oak chest, Stimline TV stand, Tudor seat
FEATURES: Hand v Machine – Resawing stock timber, Joining without joints 5 – Biscuit joints, Tools I can't live without, Planer thicknesser top tips
TURNING: Turning Basics 6: A day at the lathe, Lamp stand
TESTS: Bridge City Toolworks square, Makita router, DeWalt cordless plunge saw, Metabo impact drill, Trend Airshield Pro respirator, Record planer thicknesser, Tormek woodturners' kit, Forge Steel Clamp 'n' Cut, Axminster file grip, Trend square, Faithfull trimming knife
MACHINERY UPDATE

MARKETPLACE

Our **FREE** classified advertisement service

Send or email a photograph of your item and we'll include it with your ad for **FREE!**

FOR SALE

Kity K5 Combi, very little used. T-Tip saw, spare planer blades, wobble washers, full instructions; offers.
01480 462941 (Cams)

Illness forces workshop closure, mahogany 18-36in long and 4 x 2 and 2 x 2 in section, very good wood; £10 per bootful.
0161 793 1644 (Manchester)

SIP sliding compound mitre saw, with laser, 10in, had little use, as new condition; £70.
01305 852954 (Mid Wales)

Trend T5EK, 1/4in/8mm router, case, extra fence & long rods, 39 cutters, cost over £600; £220 ono. Record RDX600I dust extractor and hose; £70 ono. Axminster Worktop jig; £50 ono. Collection of woodworking books, 34 in all; £100.
07975 710931 (Lancs)

Kity Bestcombi combination machine. Good condition. Dismantled for easy transportation; £100.
01249 720303 (Wilts)

Timber, solid mahogany piece, 5ft 4in x 12 1/2 x 2in, buyer collects; offers.
0208 455 4543 (North London)

Complete home workshop contents, woodworking machines, power tools, hand tools; offers to clear.
01273 834335 (West Sussex)

Large collection of hand tools, and hand machine tools, comprehensive list available, also woodworking books; list available.
01626 888214 (Devon)

Trend router table, unused; £60. Delta mortiser; £45. Record bench drill; £50. Trend dovetail jig; £35.
01494 762616 (Bucks)

Lurem combination machine, moulding, sawing, sliding carriage, surface and thickness planning, three motors, with roll clean, built-in dust extractor, floor stand; £500.
01273 834335 (West Sussex)

Wickes 1500W table saw; £30. Fox Dust Extractor; £70. Both excellent condition. Can be seen working.
0116 277 1249 (Leicester)

Tormek 2000 grinder, very good condition, little use, excellent for very sharp tools; £170.
01480 435581 (Cams)



Worktable, height adjustable (indexed), top (34" x 50") lifts off, strong metal frame folds flat for storage, excellent condition; £50.
01420 22548 (Hampshire)

Shopsmith Mark V wood-working machine, with a range of accessories; offers.
01654 702434 (Mid Wales)

Stretton foldaway wood-carving bench, tilting vice, 18 chisels, two mallets, rotary drill and various burrs plus a variety of sharpening tools; £125 ono.
01344 845699 (Surrey)

Ferm bandsaw, depth of cut 90mm, throat width 200mm, excellent condition, buyer collects; £45.
01823 660542 (Somerset)

ELU 551 combination router table, can also be used as a saw bench; £50.
01444 246274 (West Sussex)

Ten years of The Woodworker magazines, 1996-2005; free to collector.
01273 738338 (Sussex)

Woodworking magazines, about 200 assorted, to be collected; free.
0208 898 5258 (Middlesex)

Record DWL24X, starter lathe and stand for beginners; offers.
01142 499658

Axminster scrollsaw / fretsaw, MS24 two-speed, 24in throat; £100.
01462 481319 (N Herts)

Jet disc belt sander, JSG-96, as seen in the Axminster catalogue; £50.
01474 833134 (Kent)

Complete workshop for sale, circular saw with chop saw attachment, mortiser & chisels, Record multiplane, wet and dry grinder, mitre saw, jigsaw, clamps, moulding planes; offers, buyer collects.
0208 881 1243 (London)

SIP 10in table saw, new sliding carriage, very good condition; new £800, will accept £475.
07880 620500 (S Yorkshire)

Scheppach HMS260 10 x 7in planer thicknesser on stand, with wheel kit and instruction manual, used once, mint condition; offers.
01684 592968 (Worcs)

WANTED

Woodworking hand tools, especially old wood and metal planes, wanted by collector. Write to Mr B Jackson, 10 Ayr Close, Stamford PE9 2TS or call
01780 751768 (Lincs)

8 and 10mm bushes for Record 148 dowelling jig.
01268 777070 (Essex)

16in diameter grindstone for horizontal Viceroy 16in sharp-edge wetstone tool grinder.
01284 704848 (Suffolk)

Hardwood, quantities in excess of 5cu ft – ash, mahogany, walnut, oak, etc. No offcuts.
07773 283787 (Lancs)

Wadkin bobbin sander, or Axminster Big Bob floor standing sander.
01978 362755 (Clwyd)

USE THIS FORM TO BOOK YOUR **FREE AD**

This space is available only to private individuals wishing to buy or sell woodworking machinery and tools. The maximum value of any item for sale must not exceed £500. For items over £500, please ring 01689 899252. Each coupon is valid for one free insertion in the next available issue. **MAXIMUM NUMBER OF WORDS 20.** The publisher accepts no responsibility for errors or omissions in this section.

PLEASE GIVE GEOGRAPHICAL LOCATION (ie. BEDS, BUCKS ETC.)

Name _____

Address _____

Postcode _____ Daytime tel no. _____

Signature _____

Please publish this advertisement in the next available edition of The Woodworker. I am a private advertiser and have no trade connections.

PLEASE TICK: FOR SALE WANTED

My advertisement reads as follows (max. 20 words):

Please write your advertisement clearly in **BLOCK CAPITALS** then send it to: The Woodworker Marketplace, Magicalia Publishing Ltd, Berwick House, 8-10 Knoll Rise, Orpington, Kent BR6 0EL. Or email your free ad to: thewoodworker@magicalia.com
Send/email a photograph of your item and we'll include it with your ad for **FREE.**

A blast from the past...

This month we look at 1913, when the age of empire was drawing to a close and war loomed, and at 1953 which heralded the beginning of the Elizabethan era and a promise of lasting peace and prosperity

SEPTEMBER 1913

Back in 1913 *The Woodworker and Art Craftsman* cost the princely sum of 3d for a 32-page issue, and for the money its readers received a veritable pot-pourri of ideas and projects. The lead story was a design for an ornate smoker's cupboard – hardly a vote-winner today, although the editors conceded that it could equally well serve as a medicine or china cabinet.

Inside were further features on making nursery furniture and a plant stand for a bay window, on wood carving with the V tool, and a delightful piece on making ornate switch and bell push covers. The justification for this? "Almost every house is now fitted with electric bells, and many neighbourhoods are also lighted with electric light." Progress was gathering speed...

Yet a couple of pages further on was the first of a series of features on using a traditional foot-powered pole lathe – perhaps to tie in with the advertisement on the front cover for Benson's Modern Pole Lathe, which was priced at a mere £3 15s and designed to fit on any ordinary table. Imagine setting that up in the front parlour!

Readers' queries were equally of their time. One reader wanted a design for a dog dresser – a sort of indoor kennel for breeding small dogs – while another wanted to ebonise an old birch walking stick. There were plans for a fiendishly complicated Chinese wooden puzzle, and an advertisement for *The Woodworker Sixpenny Booklets*, which claimed that "thousands of readers (of *The Woodworker*) are adding daily to their incomes by means of their practical knowledge of woodworking methods". Who had time for anything else?



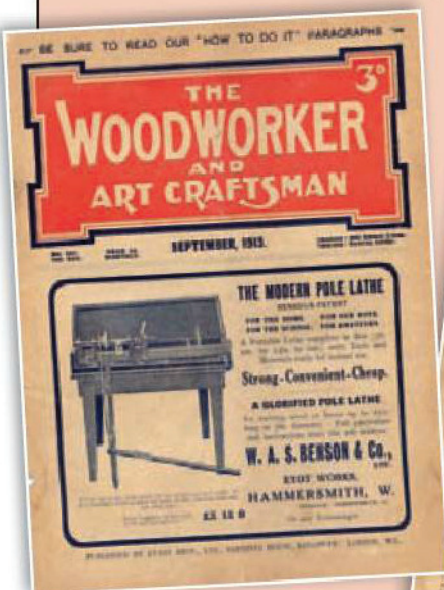
SEPTEMBER 1953

Practical frugality was still the order of the day in the early 1950s. The September 1953 issue (only a 24-pager) opened with a new series on furnishing the bed-sitting room. This was aimed, as the editorial had it, at "those at business or in training away from home, single men or women in one or two rooms, and elderly people living alone in retirement". It featured plans for a divan bed fitment that did double duty as a day-time sofa. The motto was: "Everything should be space-saving, for in confined quarters everything must have its place". This certainly fitted the bill.

Further on inside the issue, readers could tackle a small box for cigarettes or trinkets, or could turn some egg cups and napkin rings. For the more advanced woodworker, there were plans for making an oak lectern – "ideal for a school hall" – and a folding coffee table. Carvers were encouraged to tackle creating decorative wall badges with scrolls; "a device appropriate to any school, regiment or society could be chosen".

There was also detailed technical advice on re-polishing a piano, on graining and painting wood, and on using wood preservatives.

And buried deep in the text was a glowing review ("contains all the basic information a man should have") of a book on Wood Turning by P W Blandford – the same Percy Blandford who used to write regularly for *The Woodworker* for many years, and who recently celebrated his 95th birthday! The book was available from Foyles in the Charing Cross Road, London, priced at 2/6d. It's probably still in print today...



More from *The Woodworker* archive next month...



Satisfying the professional's needs

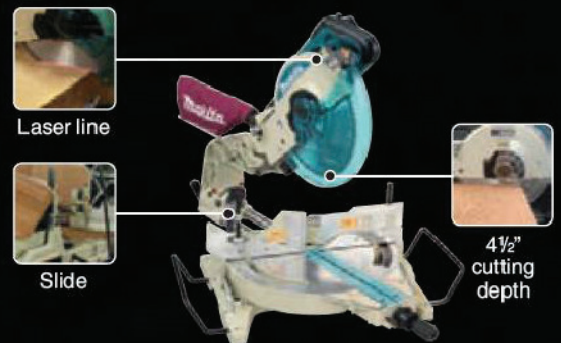


THE PERFECT ANGLE

A combination of the uniquely positioned motor which allows unimpaird bevelling both left and right for an unsurpassed depth of cut, perfect balance, infinite accuracy and unsurpassed performance makes the range of Makita stationary saws ideal tools for professional workshops and construction site activities.

Makita's products are among the best in the world. Reliable, long lasting power and performance - every time.

Call: **01908 211678** or view the full range of tools at **www.makitauk.com**



Model shown: LS1214L

NEW FOR 2008

TS315 Cast Iron Table Saw with Scoring



KEY FEATURE
Flipover stop and telescopic cross cut fence included on optional squaring table.



Can be used with a 12" blade



KEY FEATURE
Heavy cast fence with micro-adjustment.

What They Say...

"The experience of cutting on it is a pleasurable one..."

The basic package of the scoring blade, smaller ripping width and the sliding beam is certainly good value and has to be worth considering if you have the space and need for a decent spec'd, well made saw, and there's a five year warranty to boot."



Good Woodworking, June 2008



KEY FEATURE
Heavy construction and industrial style sliding beam.



KEY FEATURE
Scoring blade adjustable through the table.

The TS315 completes the recent upgrading and expansion of our table saw range.

Table saws are at the heart of many workshops and with the TS315 we are offering a real workhorse at a price the keen enthusiast or semi-professional can justify.

SUMMER SPECIAL
SAVE **£200**
TS315 Table Saw RRP £1699.99
DEAL PRICE
£1499.99 INC. VAT

BUY SAME TIME* OFFERS

TS315-ST Squaring Table	£149.99 (RRP £199.99)
TS315-RE Right Hand Extension	£99.99 (RRP £139.99)

KEY SPEC

MAX BLADE SIZE:	315mm (with scorer removed and optional insert)
BLADE BORE:	30mm
SCROLLING BLADE SIZE:	80mm
SCROLLING BLADE BORE:	20mm
BLADE SPEED:	4000rpm
MAX RIP:	790mm
MAX RIP WITH RIGHT HAND EXTENSION:	1250mm
SLIDING CARRIAGE STROKE:	1250mm
TABLE HEIGHT:	895mm
MAX CUT 90°:	10" Blade - 80mm, 12" Blade - 105mm
MOTOR POWER (OUTPUT):	3hp (240V)
WEIGHT:	315kg



The TS315 features heavy cast iron construction on machined trunnions and mounted to a welded steel frame for rigidity and longevity.

- 1 Cast Iron Saw Unit.
- 2 Machined Cast Iron Trunnions.
- 3 Welded Steel Frame.

RECORD POWER

SHEFFIELD · ENGLAND®

FOR FURTHER DETAILS OR TO ARRANGE A DEMONSTRATION:

Go Online: WWW.RECORDPOWER.CO.UK

- Find a local stockist
- Find a demo or show near you
- Contact us to arrange a demo for you

or contact: Record Power Ltd, Unit B Ireland Industrial Estate
Adelphi Way, Staveley, S43 3LS

Telephone: 0870 770 1777

Email: sales@recordpower.co.uk

Facsimile: 0870 770 1888

<http://www.recordpower.co.uk>