Issue Twenty Six

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Issue Twenty Six

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Time is rapidly running out for you to register to enter the special Routing competition which will be taking part during the International Woodworking and Turning Exhibition at Birmingham's NEC from 9 - 11th October.

The application form is printed on page 73 and don't forget, this event will be the highlight of the exhibition, so we are looking for a good response from readers.

This new competition is for any item that is made, predominately, with the use of a router. It can be anything from a small box to a dining table.

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You might even consider making one of the projects featured in this issue, as your entry.

We all look forward to meeting you in Birmingham.

Peter Roper Editor

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# table i

## Peter Dunsmore shows how he made a feature table that includes marquetry

There are people who, on seeing a piece of solid wood furniture, immediately suggest that it is made of mahogany regardless of what the timber is. When I was asked to make a table in oak it was suggested that a small marquetry of a couple of acorns on an oak leaf set into the middle of the table top may give any admires a subtle clue! Now they look at it and ask, "Is it chestnut?" Maybe it's my marquetry skills!

### Making the top

After purchasing the oak the timber is left to acclimatise in the house for a few weeks before commencing work so allowing any movement to settle down. The eight pieces of 6in. x 1in. are then laid out on the floor and the pieces joggled around until satisfied with the layout. The timbers for the top were purchased as quarter sawn oak primarily because it makes for a more stable top but also because I wanted to make a feature of the medullary rays present in this timber when cut in such a fashion.

When making such a piece of furniture I usually try to make a feature of any knots and other such 'defects' as I feel they add character to the finished article and is a step further away from the mass produced items so easily purchased nowadays that in some cases are designed to last little longer than the duration of the guarantee. A circle the diameter of the finished top is drawn on the timbers and each piece is then cut a little outside the lines. In this way it is easily judged where the grooves are to be routed for the plywood tongues and so not overshoot a little and ruin the moulded edged when it is eventually profiled.

With all the pieces glued and clamped together the centre point is marked and a hole drilled into which is screwed a 1in. roundhead screw. This is used as the pivot point for the home made trammel bar when rebating and moulding the edge. I knew the hole would eventually be covered with the marquetry panel and so would not be seen.

The trammel bar is simply a piece of 9mm MDF a little over the radius of the table top in length and about 6in. wide. The screws holding the plastic base on the router are removed and the MDF screwed in place after cutting the waste area away to allow the cutter to clear. Holes can be drilled where required for the pivot screw to fit through. A straight cutter is used to trim the edge of the table top into a true circle.

With the edge profiled another hole is drilled in the MDF and the router fitted with a 1in. wide cutter set to 1/8in. depth of cut. A rebate is then cut around the perimeter of the top and the process repeated so the width of the rebate is about 2in. If a different edge moulding other than the one shown here is required then it may be necessary to adjust the setting of the rebate accordingly. As can be seen in the photographs 1/8in. sycamore stringing is glued in place and allowed to dry.

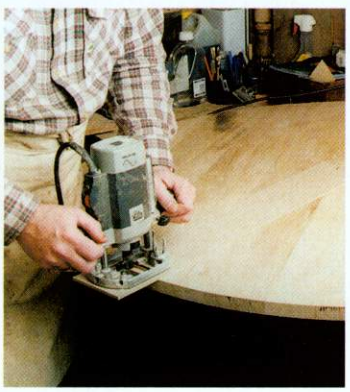
Some of the offcuts from the table top were sliced into strips 1/8in. wide and these were then cut into individual pieces of a little over 1in. in length. In order that these pieces of oak would fit neatly around the perimeter each piece had to be very slightly tapered using a broad blade chisel.

This is a time consuming job as each piece has to be trimmed to fit neatly against the

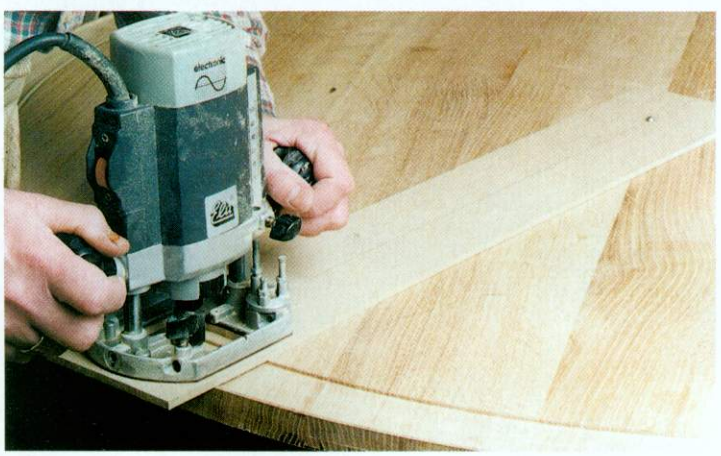
# Pedestal
# n oak

The grooves for the tongues are cut using a router and 9mm cutter

A tongue of plywood is glued in place and the planks glued together



Truing the edge of the top



The rebate for the crossbanding is cut

The stringing is glued in place

preceding piece, but the end result is well worth the effort as the table top looks neatly framed with crossbanding. It is not necessary to ensure that the circumference of the crossbanding is trimmed round at this stage as this process will be carried out at the same time as the edge is profiled.

## Edge moulding

The edge is next moulded. This can be carried out in one of two ways depending on the cutters used. As the circumference of the table was earlier on trimmed round using the trammel bar and a straight cutter then a bearing guided cutter could be used to profile the edge using the edge of the table as the template. Alternatively, if the moulding is to be curved to the base of the side the cutters could be used in conjunction with the MDF trammel bar taking care in the marking of the hole through which will go the pivot screw. A marquetry panel is made up using a piece of oak burr as the background and when completed is let into the table top after first filling the screw hole in the centre of the table. Again the router is used to cut a very shallow depth of cut, sufficient to allow the veneer to sit in. With the top completed it is almost ready for sanding and then scraping to a good finish.

To give the table support and prevent any tendency to warping two bearers a little under the diameter of the table in length are screwed to the underside. These are made from some 2in. square oak into which are cut slots and recesses into which washers and roundhead screws are fitted.

The slots are cut in such places that the screws will fit into the centre part of the table top planks and not in the joins and are easily cut with a router fitted with a side fence. In this way the table top is free to move. Care should be taken in the measuring of the recesses for the washers so it will suit the length of the screws to be used and yet only penetrate about two thirds the way into the table top. The edges were rounded over with a rounding over bit and the ends sawn and filed to a smooth shape so as not to hurt any kneecaps when the table is in use. If the bearers are made and fitted when the table top is first assembled it will keep the top flat and also allow the top to be clamped in a workmate while the edge is being moulded. It will be easier if the piece of timber that fits on top of the pedestal is first cut to size and temporarily fitted in place on the underside of the table top so that the bearers can be accurately positioned in place and make a good fit either side of the pedestal.

## Making the pedestal

The pedestal and three legs are not particularly difficult to make providing a little time is spend getting it right. The following method, although longer to make, is extremely strong and does not rely on dowels and glue to hold the legs in place but rather a tapered slot dovetail. It will be easiest if the pedestal is firstly profiled to shape on the lathe taking care that the spigot at the top end is true and this can then be put aside. A hole the diameter of the spigot is to be accurately cut in the centre of the table top support and can be cut in a number of ways.

The method I found easiest was to cut a small square of plywood and nail this in the exact centre of the oak. The plywood is then gripped in the jaws of a chuck on the lathe and with both pieces revolving the hole could be cut out. The advantage with this method is that the hole is both round and if care is taken the sides are true.

The pedestal can be offered up to the hole and adjustments made to the hole until a nice fit is obtained. Before gluing in

place a saw cut is made across the pedestal and a thin wedge of oak planed to shape to hammer in place before the glue sets and so make a tight joint.

With the glue dry the pedestal can be clamped on the workbench and the dovetailed slots cut. The first stage is to markout where the slots are to be cut to ensure the legs splay out uniformly and then to use a square to draw the lines in place on the outside of the pedestal.

A drill and bit is used to remove the bulk of the timber before tackling the rest of the removal with a sharp chisel. A little masking tape on the drill bit will help obtain a uniform depth of cut. Care and patience are the secrets here and continually checking with a square will show how it is progressing. Try to taper the slot evenly making it very slightly narrower at the top end. Small adjustments can be made when the legs are shaped and offered up to the pedestal.

The finial to be fitted at the bottom of the pedestal is turned on the lathe and a small spigot left at the end. This fits into a hole that is drilled into the bottom end of the pedestal on completion of the turning.

## Shaping the legs

A slightly undersize template is firstly cut from some plywood and the three legs cut a little oversize with a jigsaw. The router and a bush guide is used to shape the sides of the legs using the plywood template held in place with double sided tape as a guide.

Although the depth of cut is not sufficient to profile the full width of the leg it can be turned over and a bearing guided straight cutter used to profile the other half using the now smooth wood as a guide. This method produces three identically sized legs ready to shape using a spokeshave, files and abrasive papers.

The dovetailed shape is firstly cut with saw to the depth of cut required and then the waste removed with a sharp chisel remembering to undercut the shoulders slightly to allow for the curvature of the pedestal. Keep checking with the slot in the pedestal. Because the slots are tapered the leg should slide in easily and tighten up towards the end. As a finishing tough a block plane was used to just shave a whisper off the shoulders to show a slight bevel where they meet the pedestal as I think this make for a far neater join visually.

## Assembly and completion

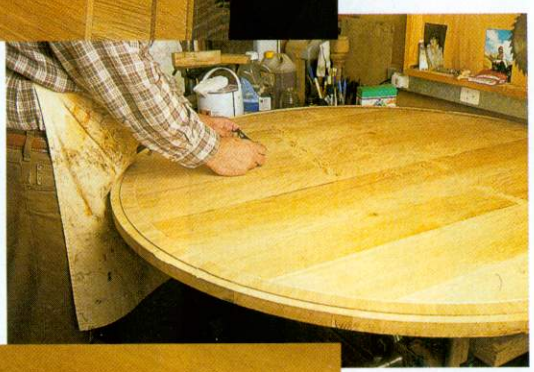
Brass sash window bolts were obtained and fitted in place through the bearers and into the table support on top of the pedestal. The fitting of these required a little care but the end result is worthwhile even if they cannot be seen unless kneeling under the table!

To kill the newness of the wood I decided to fume the table in ammonia for a short while and so darken it evenly. The marquetry panel was firstly sealed with sanding sealer as the ammonia would darken the burr too quickly and also affects the boxwood although it has no adverse affect on the stringing. A tent was made from polythene on a timber frame and made gas tight with tape.

Ammonia was placed in little dishes in the tent and the table removed when the required colour was reached. When completed the individual components making up the table were sealed with two coats of heavy white sanding sealer and rubber down. The legs were glued in place as was the finial and the entire table waxed to a finish. The legs only required three wax applications but the top, being constantly used, needs frequent waxing and brushing but the end result is attractive and will improve with time. An alternative finish would have been considered were the table to be used (or should that be abused?) by children at meal times.

Trimming the oak into little wedge shapes to fit around the table top

Cleaning up the surface with a cabinet scraper



The cutter trims the crossbanding and profiles the edge

The completed moulding on the edge

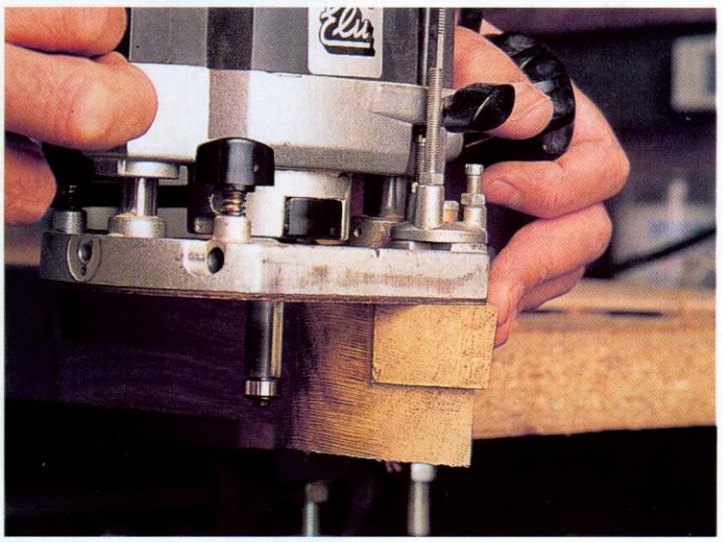
Turning the finial

Cutting out the waste

... to guide the cutter

Trying for a fit

Chiselling to shape



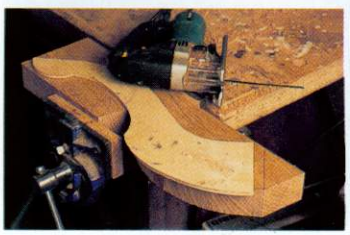
The leg is then reversed and a bearing guided cutter used

Levelling the inside face

A spokeshave is used to shape the leg

... and then chiselled away

Followed by sandpaper



A plywood template is used ...

The waste is cut with a saw ...

## Useful addresses

South London Hardwood,
Stanley Works,
12 Belgrave Road,
London. SE25 5AN.
Telephone 0181 771 3526
Suppliers of good quality hardwoods

Marshall Brass,
Keeling Hall Road,
Foulsham,
Norfolk. NR20 5PR.
Telephone 01362 684105
Suppliers of individually crafted iron and brasswork for furniture

The Art Veneer Company,
Chiswick Avenue,
Industrial Estate,
Mildenhall,
Suffolk. IP28 7AY.
Telephone 01637 12550
Suppliers of marquetry panels, veneers, polishes and veneering tools

# Cutting List

Eight pieces 6in. x 1in. x 48in quarter sawn oak for the table top
Three pieces 6in. x 2in. x 24in. for legs
Three pieces 6in. x 2in. x 30in. glued together to make post approx. 6in. square for the pedestal and finial
Two pieces 2in. x 2in. x 48in. for table bearers
One piece 8in. x 2in. x 10in. for the table top support
Offcuts of veneer and a piece of oak burr veneer to make the centre panel

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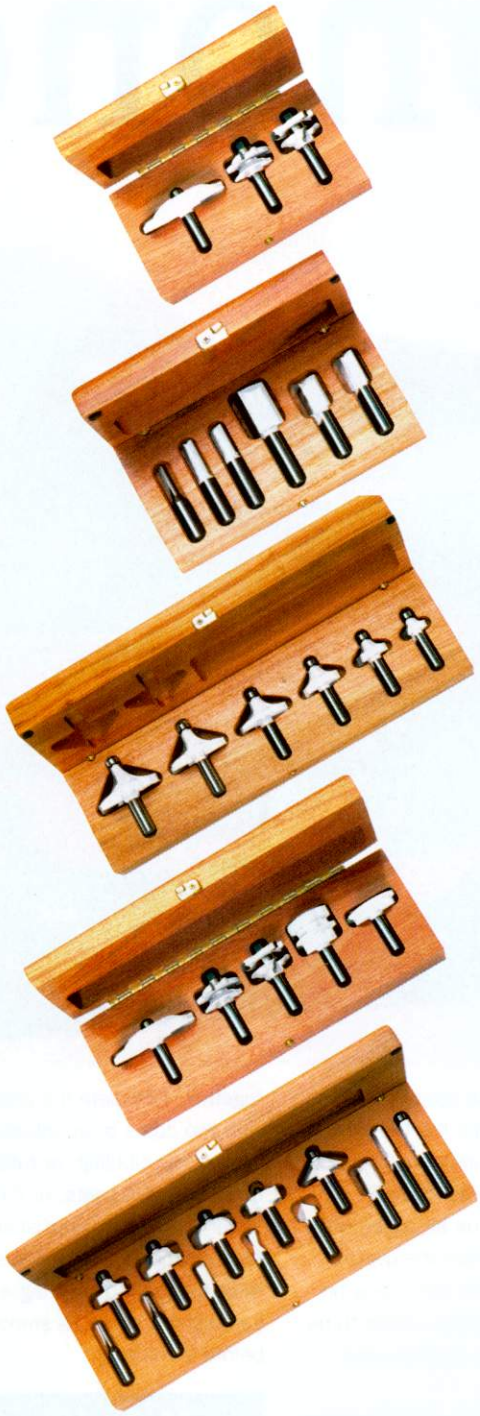

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**600511** Stepped Ovolo Doormaker's Set with Bevelled Raised Panel £132.27 inc VAT & Carriage

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**Axminster Power Tool Centre**
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# Wall-mounted telephone

**Practical and unfussy this basic design from John Todd makes an ideal weekend project**

This elementary design was made to fit into a confined space between a window and door, but the length can be alteredto your own needs if necessary. It is easy to make and consists of a top, shelf and back with two turned spindles at the front. Hardwood is best for this project and I used oak obtained from a local cabinet maker, but other hardwoods are of course suitable.

## Making a start

The top and shelf are 380 x 230 x 18mm and must be prepared first. After planing them parallel, and before cutting them to length, mark the position of the spindles. The centres are 165mm apart and 30mm from the front edge. This will allow the telephone directories to fit in easily when the centres have been marked exactly the same on both pieces. Note it must be the underside of the top and the upper surface of the shelf. Drill with a 18mm Forstner bit or drill to just over half way. This will make a flat bottomed hole, or you could use an ordinary bit and clean out with a chisel, but make sure the point of the drill does not break through.

## The spindles

If you don't have access to a lathe to turn the spindles, a local wood turner will probably do it for you at a reasonable price (look in your Yellow Pages). When you have the spindles finished, fit them into the holes and you have the top and the shelf assembled temporarily. The back must now be marked out. Lay it on the bench and carefully mark with a pencil where the top and the shelf will fit. This must be exactly the same as the distance between at the front edge. Spacer blocks here would help. Secure them with double-sided sticky tape. Drill three equally spaced holes for the top and the same for the shelf to secure the whole project. Before screwing it, shape the top as shown in the drawing or vary it to suit your own taste. Before assembling radius all edges with the router to soften the overall effect. Remember the radius on the ends of the back needs to be between the top and the shelf only.

Before assembly drill two holes to secure it to the wall. Drill them beneath the top to keep them out of sight and sand all faces finishing with 00 glass paper or 200 grit garnet paper. Glue the spindles in their holes and glue and screw on the back cramping tightly. You will need two sash cramps for the spindles and four more to pull the back and shelf together. Complete the project with two coats polyurethane varnish, de-nibbling or rubbing down between coats, or if desired stain it. A water based stain is recommended, but before staining raise the grain by wetting it then sanding the surfaces smooth before varnishing.

## Materials

- 6 countersunk screws 30mm x No. 6
- PVA glue
- Glass paper or garnet paper
- Polyurethane varnish
- Screws and wall plugs to secure to the wall
- Double sided sticky tape

# table

## Cutting List

Finished sizes in millimetres

| | | L | W | T |
|---|---|---|---|---|
| Top | 1off | 380 | 230 | 18 |
| Shelf | 1off | 380 | 230 | 18 |
| Back | 1off | 380 | 200 | 15 |
| Spindles | 2off | 145 x 25dia. | | |

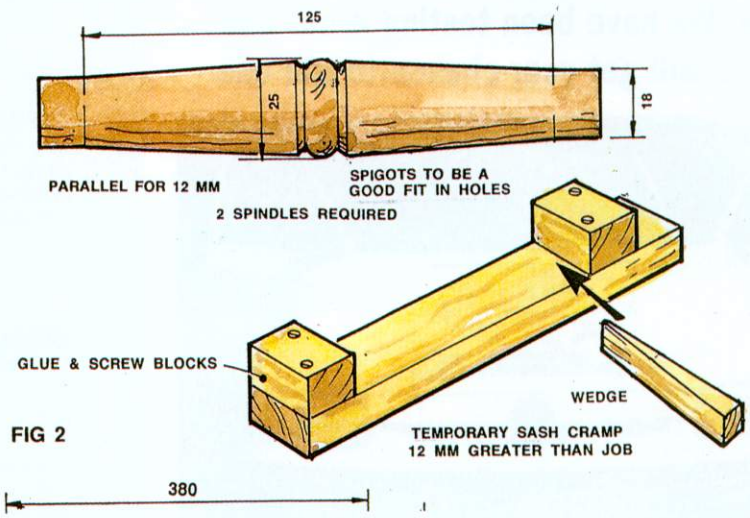


FIG 2

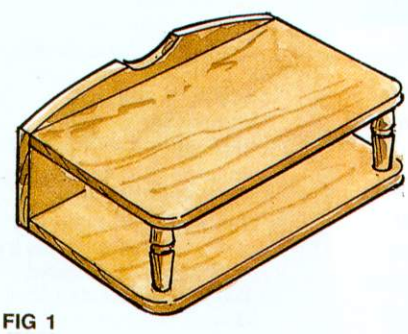

FIG 1

Fig. 1 (left) Completed project in position
Fig. 2 (top) A temporary sash cramp. Blocks to be screwed on distance between blocks to be 12mm greater than distance to be cramped and then wedged.
Fig. 3 (below) Telephone table components before assembly

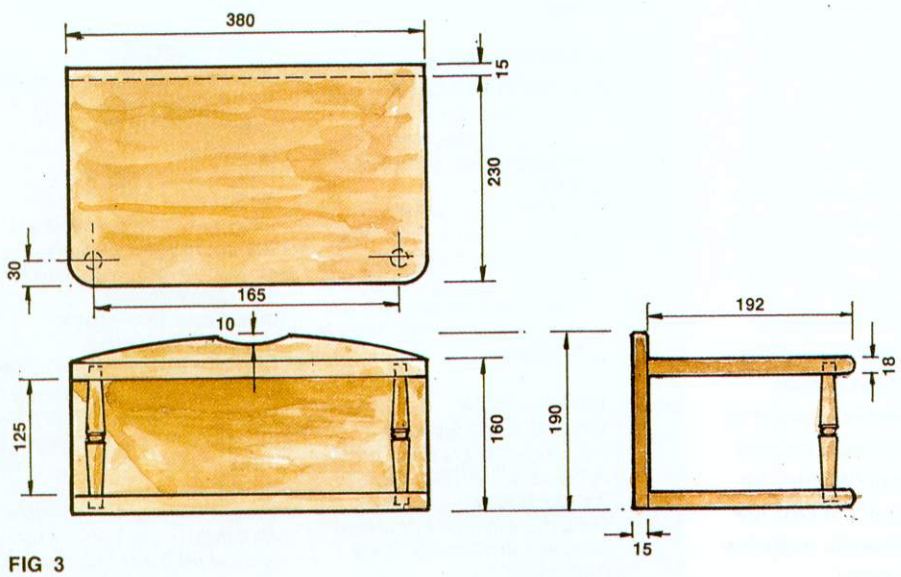


FIG 3

## Tools required

- Tools required
- Smoothing plane
- Try square
- Dividers
- Second cut file
- Marking gauge
- Coping saw
- Hand or electric drill
- Sash cramps
- Rule
- Pencil
- 18mm forstner bit or drill

**OPTIONAL TOOLS**

- Drum sander to fit in electric drill for shaping the back
- Router to shape the edges
- Lathe to turn spindles
- Drill stand or pillar drill

# Pickup a Skoda

**Skoda's latest pickup is a truly versatile vehicle. We have been testing it out and soon you will get your chance to win one**

For the last month in the Nexus woodworking department we have been lucky enough to have one of the Skoda's latest pickup trucks on long term loan. This has led to a lot of arguments over whose turn it is to take the truck out for a spin, even it it's only to go and fill it up with diesel.

It's easy to see why once you have had the chance to drive the 'woody truck' (as it's affectionately become known) because not only does it have a great load carrying capability, with its huge rear payload bay and drop-down tailgate, but it drives and handles like a car. This makes it a very versatile vehicle indeed, a fact which has won it many new friends in the office.

The 1.9 litre in-directly injected diesel engine pulls very smoothly and strongly at low revs and goes on to provide a brisk top speed. The slick gear change and refined drivetrain also helps you to make quick progress over a variety of roads.

On the motorway the truck is quite happy to cruise quietly at the legal limit getting you safely to your destination in the comfort you wouldn't normally associate with a commercial vehicle.

All in all the Skoda 1.9D pickup is a super vehicle, extremely practical whilst still being great fun to drive.

But the best thing about the woody truck is that you will soon have the chance to win the very one that we will be featuring in forthcoming issues of the best selling Nexus range of woodworking titles. All you will have to do is collect the tokens each issue and then answer some simple questions based on the truck and you could become the proud owner of 'Woody'. So watch this space in the next few issues of your favourite magazine for more details soon!

# Diary Dates

### THE INTERNATIONAL WOODWORKING AND TURNING EXHIBITION

***9th - 11th October***
*The National Exhibition Centre, Birmingham.*
*Demonstrations of turning, carving and routing. Competitions and hands-on opportunities.*
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### HAMPSHIRE WOOD FAIR

*Local timber sales, wood turning and woodcraft demonstrations, National Hurdle-making Competition.*
***19th September***
*Open from 10am until 4pm at W.J.T Crafts, Crab Wood, Nr. Winchester, Hampshire. Details Tel: 01962 860948.*

### ISSAC LORD

***12th September***
*Subject to be confirmed*
***17th October***
*Subject to be confirmed*
***30th October - 31st October***
*Isaac Lord two-day show*
***28th November***
*Subject to be confirmed*
***12th December***
*Question & answer day*
*Further details: Tel: 01494 462121*

### NORTH OF ENGLAND WOODWORKING SHOW

***27th - 29th November***
*Held at the Flower Hall, Gt. Yorkshire Showground, Harrogate.*
*Whether a beginner, experienced amateur or a professional, this is a friendly show not to be missed.*
*Apart from the mass of exhibitors, there will be demonstrations and workshops to educate and entertain.*
*Details from SK Promotions. Tel: 01934 522240.*

### AXMINSTER TOOL & MACHINERY EXHIBITION

***12th - 15th November***
*To be held at the Royal Bath & West of England Showground, Shepton Mallet, Somerset.*
*Note: Thursday 12th November is preview day and has limited number entry - by ticket purchased in advanced only.*
*Other days, advanced tickets priced at £3.00 or £3.50 on the door. Details Tel: 01460 68686*

### TABWELL TOOLS

***18th, 19th & 20th September***
*Tool and machinery exhibition held at Hull showroom. Tel: 01482 581870*
***2nd - 3rd October***
*Tool and machinery exhibition held at Cirencester showroom. Tel: 01285 655268*
***16th - 17th October***
*Tool and machinery exhibition held at Hereford showroom. Tel: 01432 273018*
***6th, 7th & 8th November***
*Tool and machinery exhibition held at Tamworth showroom. Tel: 01827 56188*
***13th - 14th November***
*Tool and machinery exhibition held at Christchurch showroom. Tel: 01202 486240*

### PETER CHILD WOODTURNING

*Series of woodturning demonstrations held at Peter Child Woodturning Supplies, The Old Hyde, Little Yeldham, Halstead, Essex.*
*Tel: 01787 237291*
***5th September***
*Goblets with Derek Phillips*
***3rd October***
*Square edged bowls with Derek Phillips*
***7th November***
*Candle sticks for Christmas with Derek Phillips*
***5th December***
*Beginners hands-on with Derek Phillips*

### TRENT VALLEY WOODTURNERS

*All held at Kegworth Community Centre, The Dragwell, Kegworth, Leicester.*
***9th September***
*Spindle turning with Reg Sherwin*
***14th October***
*Windsor chairs with Keith Rowley*
***11th November***
*Last chance competition preparation with Viv Collins*
***9th December***
*Xmas competition and social for all members*
*Further details from Peter Allen, tel: 0116 2677233*

### TOWN & COUNTRY FESTIVAL

***29th August - 31st August***
*Held at the National Agricultural Centre, Stoneleigh, Warwickshire.*
*Further details tel: Andrew Waters, 01203 696969*

### CRAFT SUPPLIES

*Series of free demonstrations held at The Mill, Millers Dale, Nr. Buxton, Derbyshire SK17 8SN.*
***5th September***
*Turning bowls with Rod Bonner*
***6th September***
*Turning goblets and pomanders with Tony Witham, plus a pyrography demonstration with Christine Witham*
***11th - 13th September***
***Great Autumn Show*** *including numerous demonstrations.*
*Doors open at 10am and close at 5pm. Entry is £3 per person. (redeemable at the Show with vouchers against timber purchases over £20.) Ticket details Tel: 01298 871636.*
***3rd October***
*Turning hollow vessels with Phil Irons*
***4th October***
*Tools and finishing techniques with Jimmy Clewes*

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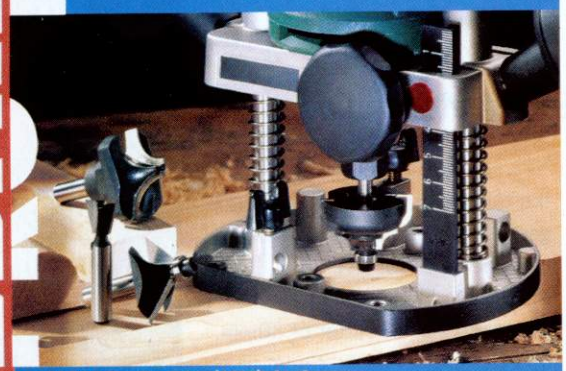

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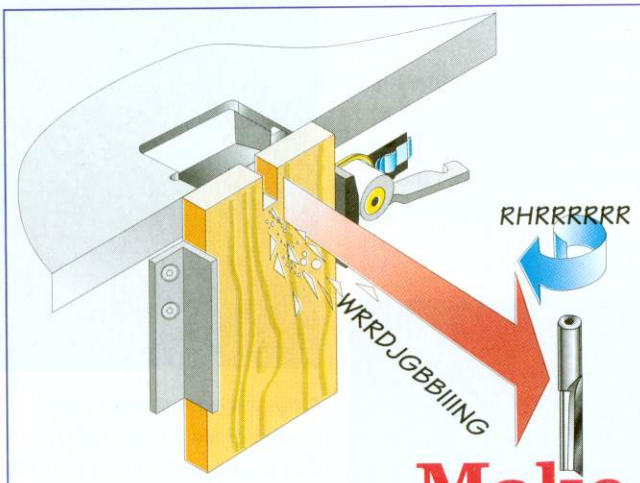


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# Mini table with a big heart

## Gordon Warr check out the DeWalt DE6900 router table

This is not a new product, but it has been re-packaged into the corporate identity of DeWalt.

Although this table is small at around 240mm x 210mm, it is high on features and usefulness. Designed to accept all but the largest routers from this tool empire, it can be used in the stationary mode, or being compact can also be used when the wood is fixed with the router being mobile.

This is helped by the large fence which offers considerable support. It is the length of the table and 135mm high. For use in this way, a good sized knob screws into the back of the fence to provide a very firm grip. Not only that, it can additionally be used when secured to the bench with the table in the vertical position and the fence, along with the router, horizontal. Two clamps are included when the attachment is used in this way.

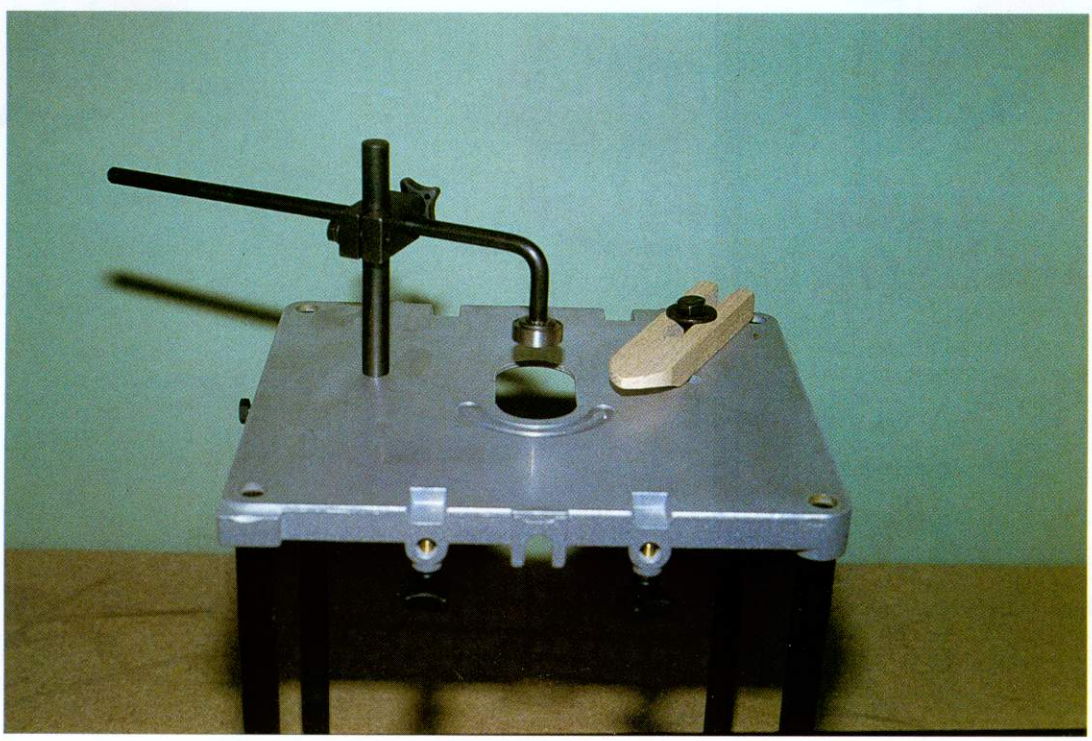
In normal use, the table stands on its four legs which are located in the corners of the table, then secured with the special clips provided either directly to a suitable bench, or base board allowing cramping to a bench. The one-piece fence clamps onto two pins which locate in holes in the table, these are secured with good sized thumb screws thus allowing quick removal.

The hole in the table permits a maximum size of cutter of 30mm, this can project up to 22mm high when the fence is in place.

One workpiece holder is included. This has a dual location and can be secured so as to apply pressure from the side, or the top, depending on the size of the wood and the nature of the cut being made.

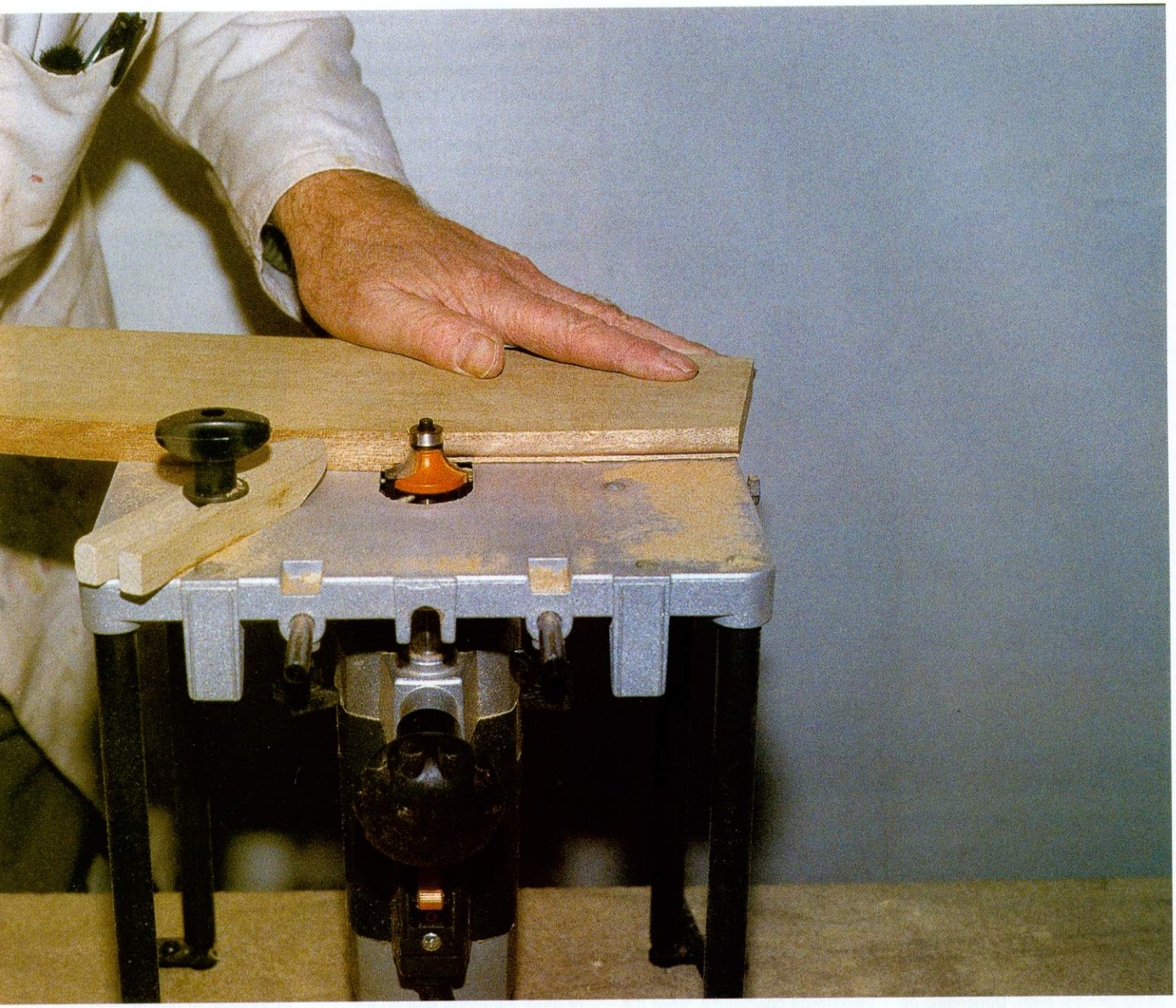
When being secured, there is a latitude of around 80mm of positioning with adjustment being quick and easy thanks to the thumb screw which locks it tight.

The copy follower and thrust block in position



It has a wooden faced spring loaded pressure pad, this has fine adjustment so that the most appropriate amount of pressure can be applied.

Also included is what the makers call the copy follower and thrust block. The copy follower is essentially a roller bearing mounted on an arm which in turn is secured to one of the pillars used for mounting the fence. The bearing can be adjusted so as to be located over the cutter. The thrust block, often known as a fulcrum pin, initially supports the wood until it can be eased onto the edge of the bearing and the cutter. These two items are normally used when shaped work



is being undertaken and when a plain cutter is in use. It can be employed both with and without a template. When a cutter with its own bearing is being used, then just the thrust block is needed.

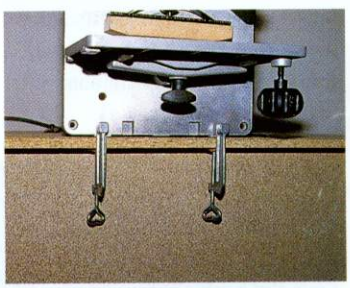
A fine adjuster is included, this of course is fitted directly to the router and provides for exact setting of the projection of the cutter from the base of the router. Relating it to the table, this adjuster allows for minute changes in the height of the cutter to be made.

This table is only suitable for DeWalt routers DW613, 620 and 621, along with Elu models numbers MOF96, MOF98E and OF97 and to enable any of these routers to be mounted in the table, two rods are included which slide through the router's base.

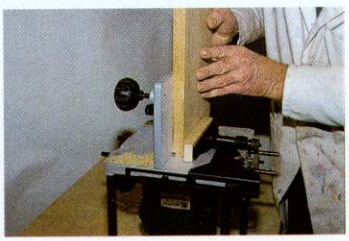
These rods are located in holes at the front and rear edge of the table where they can be tightened. In order to provide front-to-back setting of the router and therefore the cutter, a fine adjuster links the router base to the table and thus allows for exact positioning.

An item included in the accessory kit, but not used with the table is a trammel bar. This is approximately 340mm long overall and in use is secured in

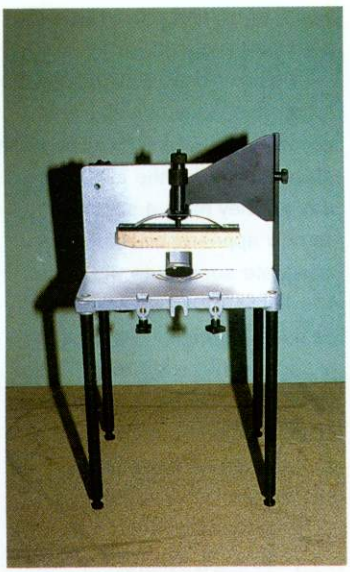
**The table clamped to bench with the router horizontal**

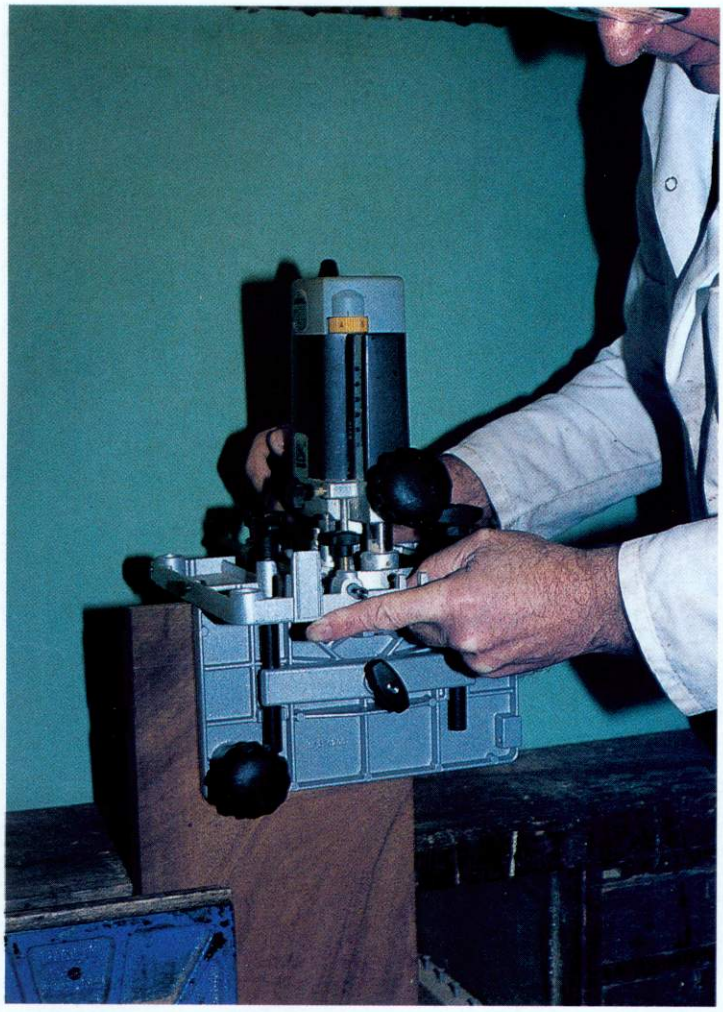


**Machining end of wood**



**The assembled table mounted on the base board**





**Forming cut on end of long component**

one of the holes in the base normally used when mounting the side fence. One end of the trammel bar carries a pin, adjustable for height and it is this pin on which the router rotates on its circular path. Depending on the nature of the work, the pin either locates directly on the wood, or on protective packing added as required.

I was using the DeWalt DW620 router in conjunction with this accessory, it is quickly secured in place along with the legs. Even though they have a somewhat spindly appearance, they give adequate support to the table. The fence is particularly rigid despite its height, but once in place cannot be adjusted. There is an outlet to the rear for debris ejection, there is an adaptor available as an extra for connection to a vacuum hose. Both the table and the fence are alloy castings, adequately ribbed for strength. Using the table set up in the basic way is very straightforward, the fine height adjuster to the router and the corresponding fine adjustment facility for the forwards-backwards positioning make the precise setting of the extent of the cut a delight to achieve. This latter adjustment in particular is a real plus for what is probably the smallest table available, in fact I do not know of any router table on which the depth of cut can be so readily and accurately controlled. The pressure pad assembly is also very much to my liking, it does its job exactly as required and is quickly switched from vertical to horizontal use. It also offers very effective guarding. A second pressure pad is available as an extra, although I have never used two.

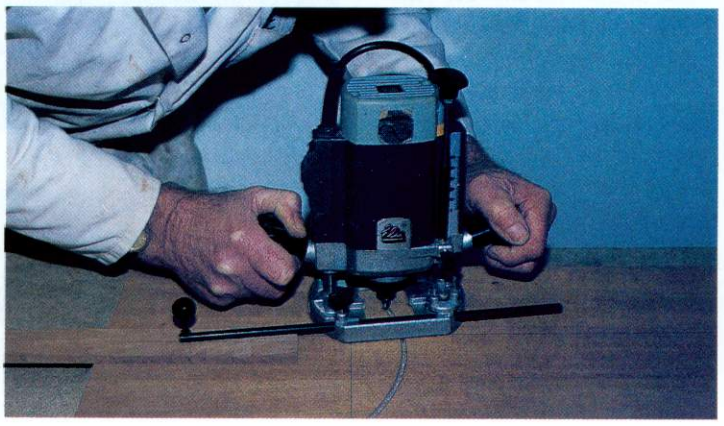
The high fence means that wood can be machined when held on its end, providing of course that it is not too long and therefore unstable. This is a particular requirement when forming the dovetailed ends of components to correspond with dovetailed housings, although this cut can also be made when the router and table are in the mobile mode of use.

Again, this is the only item of standard equipment which can tackle end grain working, normally the end of the wood is too narrow to support the router base and the usual side fence is not wide enough to offer proper support against the wood. The DE6900 is ideal for this purpose.

Despite their apparent scaled-down size, the copy follower and the thrust block work just efficiently as bigger versions on larger tables, in fact many tables of more generous size do not have these features.

The trammel bar is easy to use and opens up a range of operations primarily for creating decorative features. This is where

**Using trammel bar**



**Using router in above mode**

**Using the copy following in conjunction with template**

double sided tape proves to be so invaluable. It is a simple means of adding a piece of scrap to the surface in such a way that a full sweep of the router can be made.

This must be the smallest router table available, but it is also the most versatile, able to perform in three separate ways. It is a precision piece of equipment with a very solid construction combined with accurate adjustments. It is not the table for using with large cutters, heavy cuts and bulky workpieces, but for small and medium sized work then it is outstanding. It is a well proven design and on this occasion my experience of this product extends over a period of time.

List price of the DE6900 router table is £155.81, an extra workpiece holder is £24.46 and the dust extraction adaptor is £13.18. All these prices include VAT, but a little shopping around should lead to a supplier offering good discounts on the list prices.

## Further information from

DeWalt Power Tools,
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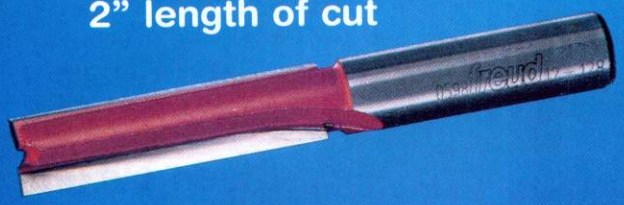

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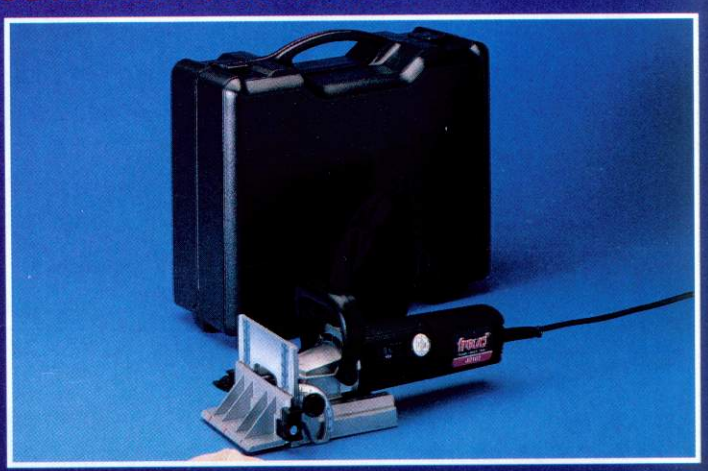


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## Keep an eye on safety

Wearing eye protection whilst undertaking routing jobs can easily be overlooked.

However most tasks can produce hazardous flying particles that eyes should be shielded from.

3M's Premium Safety Goggles, made from strong, durable polycarbonate for higher impact resistance, can be confidently worn whilst routing and during liquid spray applications.

They are designed to fit the face securely and give protection against medium energy impact hazard including large particles, liquid splashes and molten metal and hot liquids.

In order to avoid the usual problems associated with condensation when wearing goggles, they incorporate valved breather holes which are said to reduce condensation.

3M Premium Safety Goggles retail; at £7.49 per pair and Standard Safety Goggles at £4.99 per pair. Both models are available from B&Q stores nationwide or for further information about personal safety products telephone 3M DIY on 01344 858617.

3M's Premium Safety Goggles protect the eyes whilst special valved breather holes reduce condensation and make the goggles more comfortable to wear.

## Blistering packs

The popular Hotfix 180 Glue Gun by Power Adhesives Ltd., now comes in new packaging.

This versatile glue gun has been specifically developed for small scale assembly and craft applications. It uses 12mm glue sticks and bonds most materials in seconds.

Price is £17.50 (ex VAT) and it is supplied complete with 13 amp plus.

Further details from: Power Adhesives Ltd., Unit 5, New England Industrial Estate, Gascoigne Road, Barking, Essex IG11 7LN. Tel: 0181 507 8433. Fax: 0181 507 8407.

## Clean cutters

In order to ensure cutters are clean and clear from sticky resin, Trend Machinery & Cutting Tools have introduced Resin Cleaner.

This is a spray-on liquid that dissolves, quickly and harmlessly, caked on resin. It has the added benefit of incorporating a rust inhibiting agent for longer cutter life.

Sold in handy 100ml pump-action dispensers, it costs £6.95 (ex VAT).

Further details from: Trend Machinery & Cutting Tools Ltd., Penfold Works, Imperial Way, Watford WD2 4YF. Tel: 01923 24991. Fax: 01923 236879.

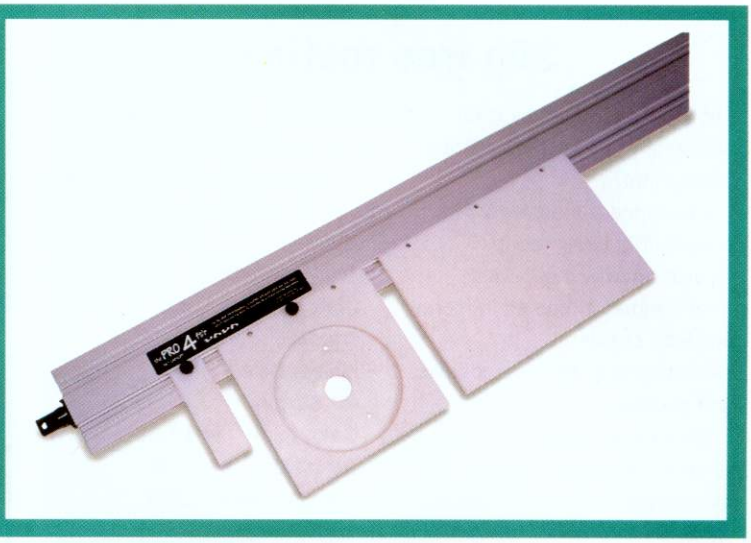
## Professional guiding

Three new lines in the Clamp Guide Range have been introduced by Trend Machinery & Cutting Tools.

Incorporating the same integral clamping mechanism as the previous models, these latest additions feature tracking attachments. They come in 2, 4 and 8ft lengths. The larger size is ideal for machining larger panel materials.

Prices are from £69.95 (ex VAT) for the 2ft model up to £139.95 (ex VAT)for the 8ft model. A router base plate accessory is also available priced at £29.95 (ex VAT) and a useful end stop block is just £13.95 (ex VAT).

Further details from: Trend Machinery & Cutting Tools Ltd., Penfold Works, Imperial Way, Watford WD2 4YF. Tel: 01923 24991. Fax: 01923 236879.



## Old faithful returns

For those readers who might be mourning the demise of the incredibly popular Elu 96E, Trend Machinery & Cutting Tools have developed their own router, which resembles the 96 but in an improved new coat.

Trend's T5 features a powerful 850 watt motor, a useful plunge stroke of up to 50mm and a variable speed from 8,000 to 24,000rpm.

Available from 1st September, the model is fully compatible with all the jigs, tables, guide bushes and accessories produced by Trend and those originally designed to fit the Elu 96.

The new router comes complete with a package of accessories including a new routing video, 1/4in. and 8mm collets, clip-on dust spout, 20mm template guide bush, beam trammel attachment and a collet spanner. Price is £169 (ex VAT) and is available from all Trend stockists.

For your local supply telephone Trend on 01923 249911.

## Stripping made easy

To help take the hard work out of paint stripping, 3M have introduced Premium Paint Removal.

This is a high performance, aluminium oxide abrasive paper that can strip paint up to 10 times faster than a conventional paper.

The design incorporates a protective coating to prevent clogging and it is moisture resistant to avoid sheet curl.

Prices are about £2.69 for a 5 sheet pack from B&Q and Homebase stores nationwide. Further information call 3M on 01344 858617.

## Slip free routing

Recently introduced by Craft Supplies is a new, larger sized routing mat.

Measuring a massive 24ins. x 48ins it is designed to provide improved grip, and what's more, it comes in more practical colour

Costing only £6.95 + postage and packing

the routing mat will help you when sanding, routing and other projects or simply use it as a means to protect your bench, or line tool draws etc.

At 87p per square ft. you can afford to protect your investment.

Available from :-
Craft Supplies Ltd.,
The Mill,
Millers Dale,
Nr. Buxton,
Derbyshire. SK17 8SN.
Tel : 01298 871636
Fax : 01298 872263

The New Router Mat from Craft Supplies Ltd.

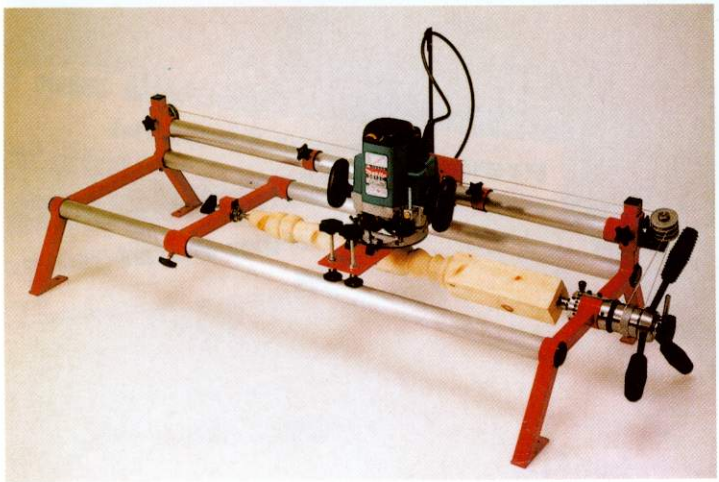
## Twister update!

The Twister Router Lathe from the Jackward Partnership has been re-engineered to be more robust. The capstan head is now machined from solid steel rather than being fabricated.

There are added nylon bushings to the router carriage providing a more rigid and smoother operation plus chromed bed bars have been included. The entire frame is of steel, epoxy powder coated to withstand years of workshop use.

The price is unchanged at £425 + £10 carriage (UK Mainland) + VAT.

For further information telephone : Planet Manufacturing on 01686 626260



## Fresh Air Without Flies

The launch of American style insect screens in the UK means we're free to open our windows to the fresh air this summer without inviting flying insects into our homes and workplaces.

Cambridgeshire-based Vermont Insect Screens cater for most types and sizes of window. Prices, including carriage range from £37 to £95 depending on size and are custom-built based on customer supplied measurements. Building trade customers qualify for special discounts.

Further information :
Vermont Insect Screens (a division of George Holt Ltd.)
Telephone : 0845 3000 378

Website :
www.insectscreens.com
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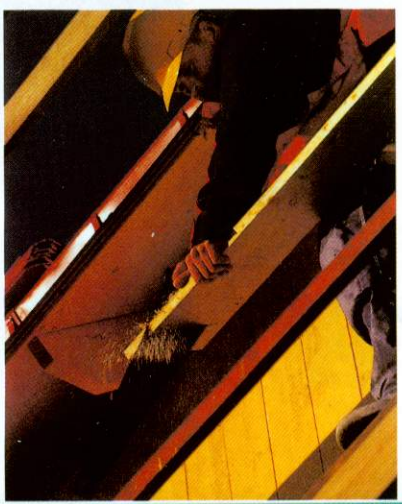

## Tricks of the Trade

Sandvik, has produced an informative little booklet called 'Improve Your Sawing'. Within its 20 pages it explains the difference in the geometry and uses of different saw teeth and gives detailed advice on how to select the right saw for a particular purpose.

Most interestingly, the booklet reveals many 'tricks of the trade' to achieve the best results when sawing. For example how to achieve smooth edges on both the top and bottom of a piece of material, particularly plywood, chipboard and fibre board. And what to do if the saw jumps about when you start cutting.

For a free copy of the booklet send an A4 envelope with a 31p stamp to :

'Improve Your Sawing',
Sandvik Saws and Tools,
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16 piece set includes:
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- 6 screwdriver bits
- 3 hour charger

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## Clarke 16" Scroll Saw - CSS400

- Max depth of cut 50mm
- Throat depth 400mm
- 1440 cuts/min
- Table tilts 0-45°

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Also available
**18" Scroll Saw - CSS18B**
List Price £129.95
Only £89.95

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| Clarke CJS350 | 350w | 3,000 | 60mm | £29.95 |
| Bosch PST54E | 350w | 500-3,000 | 54mm | £42.95 |
| Bosch PST700PAE | 550w | 300-3,000 | 70mm | £67.95 |
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| 1637 | Planer Thicknesser | £799.00 |
| 1619 | Cabinet makers circular saw | £999.00 |
| 5023 | 'Bestcombi' woodworking system | £1199.00 |

## Clarke Woodworking Lathes

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| Model | Ctre. to Ctre. | Turning Cap. | Turning Speed | List Price | Our Price |
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| CWL12C 37" | 940mm | 305mm | 5 | £154.95 | £114.95 |
| CWL20RV* | 900mm | 305mm | 10 | £299.95 | £259.95 |

* With reversible head and steel stand.

## Routers

From Only **£74.95**

*110V available

| Model | Motor | Collet Size | Plunge Depth | Our Price |
|---|---|---|---|---|
| Bosch POF500A | 500w | 1/4" | 52mm | £74.95 |
| DeWalt DW613 | 800w* | 6/6.35/8mm | 35mm | £145.95 |
| Bosch GOF900ACE | 900w* | 1/4" | 50mm | £169.95 |
| Freud FT2000E | 1900w | 1/4" 1/2" | 75mm | £199.95 |
| Bosch GOF1700ACE | 1700w* | 1/4"-1/2" | 75mm | £239.95 |

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Clarke BOSCH Power Tools BLACK & DECKER Makita

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| Bosch PSS23 - 1/3 sheet orbital | 150w | 13,000 | £27.95 |
| B & D KA200E - multi sander | 155w | 6,000-10,500 | £54.95 |
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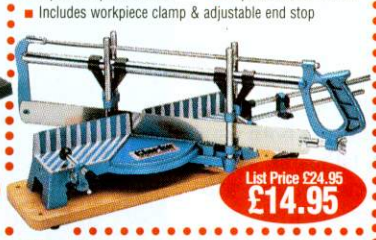
## Clarke 10" Compound Mitre/Table Saw - CMS250

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

List Price £279.95 **£219.95**

## Clarke Mitre/Box Saw



- Cuts up to 45° left & right
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## Clarke Belt/Disc Sander - CS4-6C

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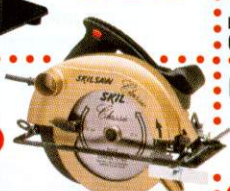
## Circular Saws



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| DeWalt DW62 7 1/4" | 1,150w, 230/110v | 3,800 | 62/45mm | £99.95 |
| Bosch GKS65 7 1/2" | 1,200w, 230/110v | 4,100 | 65/43mm | £139.95 |
| Makita 5703R 7 1/2" | 1,300w, 230/110v | 4,800 | 66/46mm | £149.95 |
| Bosch GKS85 9 1/4" | 1,700w, 230/110v | 4,600 | 85/63mm | £199.95 |

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**Also: 2.5cu/ft upright model**
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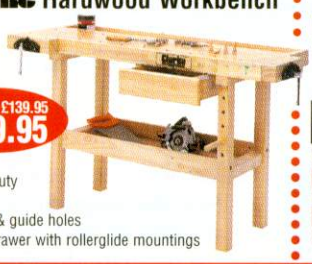

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| CDP200B | 13mm | 12 | 360 | £119.95 |
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# THE INTERNATIONAL WOODWORKING & TURNING EXHIBITION

## 9th to 11th October at the NEC, Exhibition Hall 10

**'Guaranteed great day out for all woodworkers'**

No matter what your interest in woodworking or what your level of expertise, you are sure to find a great deal going on at this show whether you are a woodturner, carver or general woodworking enthusiast. This show is organised by the company and staff behind four of the best known woodworking magazines: The Woodworker, Practical Woodworking, The Woodturner and Routing. The show reflects their interests and you will be able to meet many of the staff and expert contributors.

**'Learn from the associations'**

Visit stands representing the major craft associations including The British Woodcarvers' Association, The Register of Professional Turners and The Association of Woodturners of Great Britain.

**'Top show for turning enthusiasts'**

Woodturning remains the primary focus of this show which was established in 1992. Top turners are again on hand to provide demonstrations and run Masterclasses for all levels of expertise and on many different aspects of woodturning.

**'Compare and try before you buy'**

With so many different models of woodworking machinery on display from leading manufacturers, this is the venue to come and see both established and new models of saws, lathes as well as power and hand tools. In many cases these will be demonstrated and put through their paces. Compare prices and specifications to see which will best suit your workshop requirements.

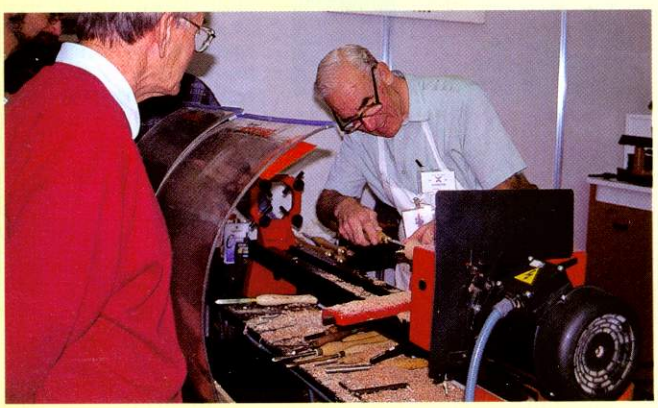
**'Learn with the Masters of the craft'**

The new Masterclasses will provide a full programme of informative workshops from top craftsmen. The workshop studios have audience seating and CCTV with monitors so that you see exactly what is going on at the cutting edge. Levels catered for range from the beginner to those wishing to improve their potential or explore areas such as hollow form work.

Masterclasses are predominantly for turners but there will also be workshops on routing and carving.

**'See the latest tools and machinery'**

At the show you will find over 50 stands representing the leading manufacturers and retailers of woodworking equipment from machines to tools as well as finishes, timber, books and ancillary equipment. Exhibitors will include: Books By Post, CMT, Craft Supplies, Crown Hand Tools, CSM Trade, Delta, Everglades, Hegner UK, Jet Clamp, John Bradford, Leigh Industries, Liberon Waxes, Myford, Pro Machine Tools, Rexon, Robert Sorby, Roy Sutton, Shesto, Starkie and Starkie, Stayer, V.B. Manufacturing.



**'Simply the best'**

**See the magnificent display of work and appreciate the fine craftsmanship that is put into the entries submitted by readers of the Nexus woodworking magazines. There are also good value prizes on offer from the various competition sponsors.**

# TURN UP FOR ANOTHER GREAT SHOW

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Friday 9th to Sunday 11th October
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**Venue:**

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If you want to upgrade your equipment or have difficulty with techniques, then all woodturners will be welcome to the Advice Clinic run by The Association of Woodturners of Great Britain. Experienced turners will be on hand to offer truly independent advice on lathes, chucks and tools, or show you on the lathe how to overcome difficulties with tooling, chucking or achieving that better finish to your work.

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See the wide range of entries in the first ever truly national carving competition organised in association with The British Woodcarvers' Association. There will be entries in various categories under the headings: Human Form, Wildlife/Animal Form, Utility, Freeform and Relief. Awards will be made to both novices and experts.

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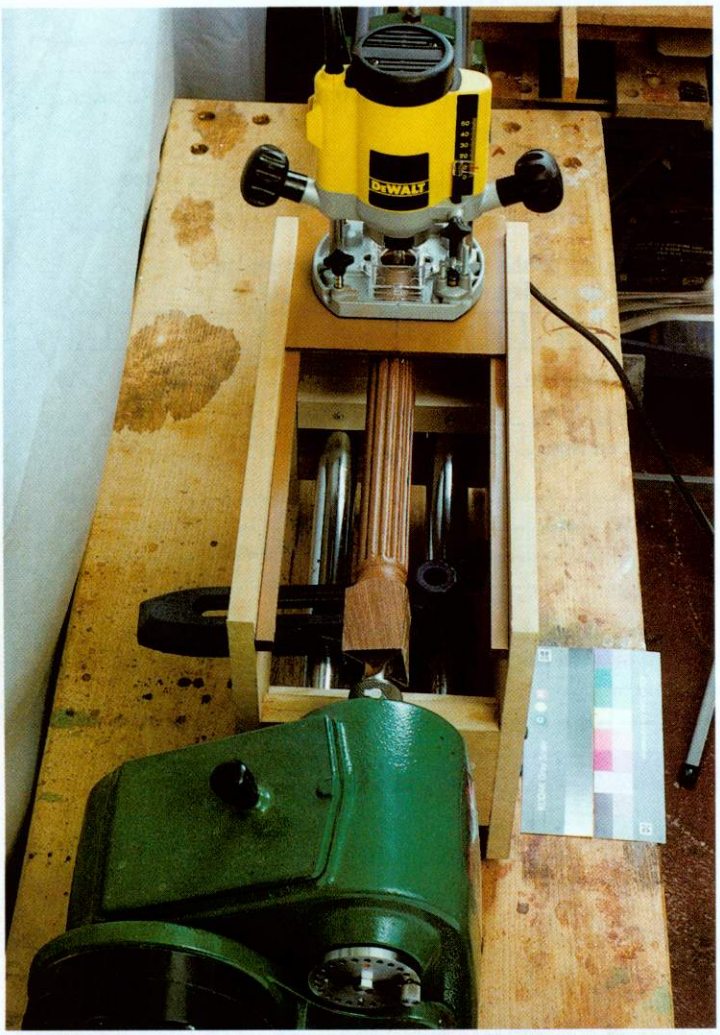
**By Rail**
Birmingham International Station is at the centre of the NEC, with a covered walkway to Exhibition Hall 10. InterCity services run frequently from London Euston and many other regional centres. The NEC is also only 10 minutes from Birmingham New Street Station.

# Rota-form Indexing Kit

**Desmond Goulder, well known for his inventions, has come up with another good idea that allows you to make more of your woodworking equipment. Rota-form combines the lathe and router to allow the decorative machining of spindles. Zachary Taylor reports**




## New Record lathes

**Owners of new Record lathes which are under the Record five year warranty have the option of purchasing a special kit which enables them to fit the indexing ring without the need for a hole to be drilled in the headstock casting.**
**For further information contact: Goulder Enterprises.**

When I was asked to try out the new Rota-form Indexing Kit, I was enthusiastically curious. Any device that can extend the facility of a standard machine or increase its productivity has to be worth investigating, thus my readiness to accept the offer to test the Rota-form.

It is not difficult to find routing attachments for lathe work; some are more useful than others, some expensive, and some more trouble than they are worth. But Desmond Goulder is not one to mess about with projects for their own sake without some good reason. Good reasons are obvious in the case of the Rota-form, permitting ease of fitting, simple operation, flexible functions and good value.

At a glance, the Rota-form Indexing Kit comprises a slide box that sits on the lathe bed, and a metal disc with 24 holes. In its current form the kit is designed to fit the Record twin bar lathe bed. Owners of other makes will need to refer to the designer for advice on compatibility.

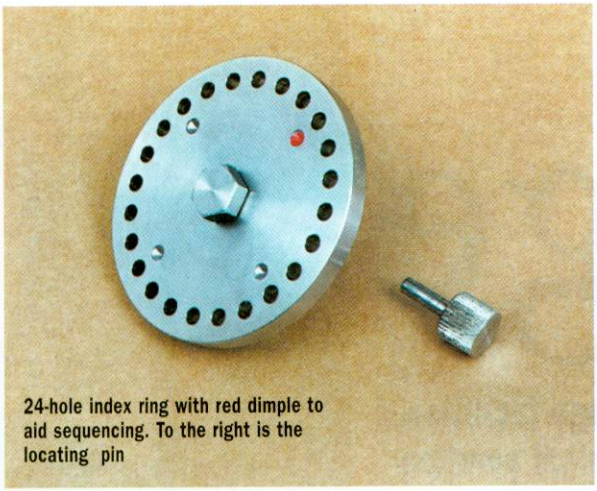
### Index ring

A wise choice of corrosion-proof stainless steel is used for the index ring, the locating pin and the fixing bolt. 24 holes, to accommodate the locating pin, are equally spaced around the periphery of the disc. It does not stretch one's mathematical prowess greatly to see that the number 24 is divisible by 2, 3, 4, 6, 8, 12 and, of course 24. Selecting a hole in the index ring, the locating pin is pushed through for location in a datum hole drilled in the headstock. A 4mm drill is supplied with the kit as this datum hole has to be drilled by the lathe owner.

To orientate the workpiece, selection of the appropriate hole in the disc is aided by observing the four dimples arranged in a cruciform on the face of the index ring - one is coloured red to represent the first hole. In a

## Additional refinement

**Since the test was carried out, a further improvement has been made to the Rota-form. This is a means of fine adjustment for the horizontal alignment of the box, or indeed the facility to raise one end in order to achieve the tapered machining of spindles. Adjustment is made by means of four machine screws with lock nuts, retained by metal installed in the bottom blocks.**

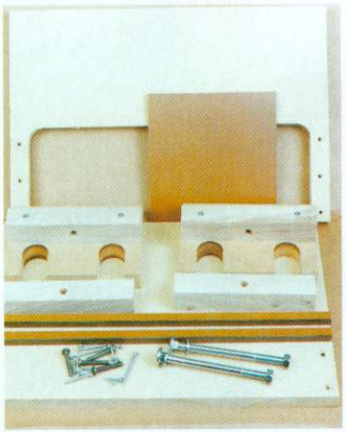


24-hole index ring with red dimple to aid sequencing. To the right is the locating pin

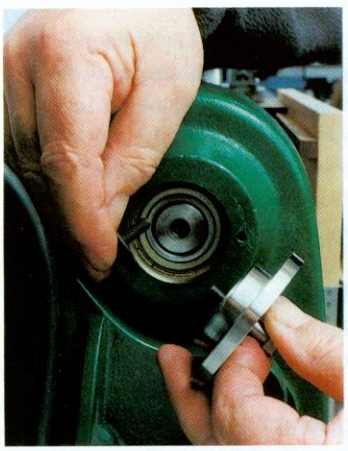
Sturdy clamps anchor the slide box to the lathe bed

Rota-form with front removed to permit the fitting of the toolrest for further turning

Desmond Goulder, designer of the Rota-form Indexing Kit with an inlaid test piece



The router slide box as it comes in the carton



Removal of the blanking platefor the assembly of the index ring

12 beads were moulded on the test piece

recent chat with Desmond, I understand the locating pin will now come with a tapered end to make insertion even easier.

It is worth mentioning that when drilling the hole in the headstock, it is best to use one of the holes in the index ring to ensure correct positioning.

## Routing slide box

Setting up the routing slide box is a straightforward affair. Again, choice of materials indicates an awareness of the two essences of the practical and economical. Mdf for the carcase and Tufnel for the parts that will be subjected to wear. Slotted screws are threaded into metal inserts to secure the front panel. Two hefty bolts anchor the box to the bed bars when its position has been determined relative to the workpiece.

Fitting the router is simply a question of drilling bolt holes to suit the particular make and model.

## Making it work

It is probably obvious at a glance that the mode of operation of the Rota-form is by fitting the slide box astraddle the lathe bed and placing the router on the horizontal slide bars. A workpiece is mounted in the lathe between centres, as if for spindle turning. Decisions with regard to the size of the workpiece, cutter type and form of decoration, are prerequisites.

Two height positions of the front and back of the slide box are possible, permitting a wide range of diameters to be machined. If the project is longer than the Rota-form, it merely requires the relocation of the box along the bed.

To ensure horizontal parallelism of the workpiece, it is recommended to produce a cylinder prior to decorating it, by revolving the spindle and traversing it with the router, 'turning' the surface with a plain cutter. By this means, subsequent grooving or shaping with router cutters will result in correct alignment and geometrical compatibility.

If further conventional turning is required after the routing operation, it is possible to remove the front of the box and mount the toolrest for the application of normal turning tools.

Plunging operations may be used for convex or concave forms in the shaping process and these combined with rotation of the spindle are capable of producing many varieties of decorative effects.

Some trials may be necessary to establish the most effective number of applications, say grooves around and along the cylinder, and it is not a bad idea to run a 'dummy' using a scrappable test piece prior to creating some great work with some treasured material.

## Further Information

The current Rota-form Indexing Kit is designed to fit the Record Coronet No. 2 and 3 twin bed bar lathes. Enquire about other machines.

Price: The cost of the Rota-form Index Kit is £93 inc. VAT and carriage for UK mainland.

The Rota-form Index Kit is also available from Craft Supplies, The Mill, Miller's Dale, Buxton, Derbyshire SK17 8SN.

For more details contact:
Goulder Enterprises
Westbourne Offices
Warren Carr
Matlock
Derbyshire DE4 2LN
Tel: 01629 732354
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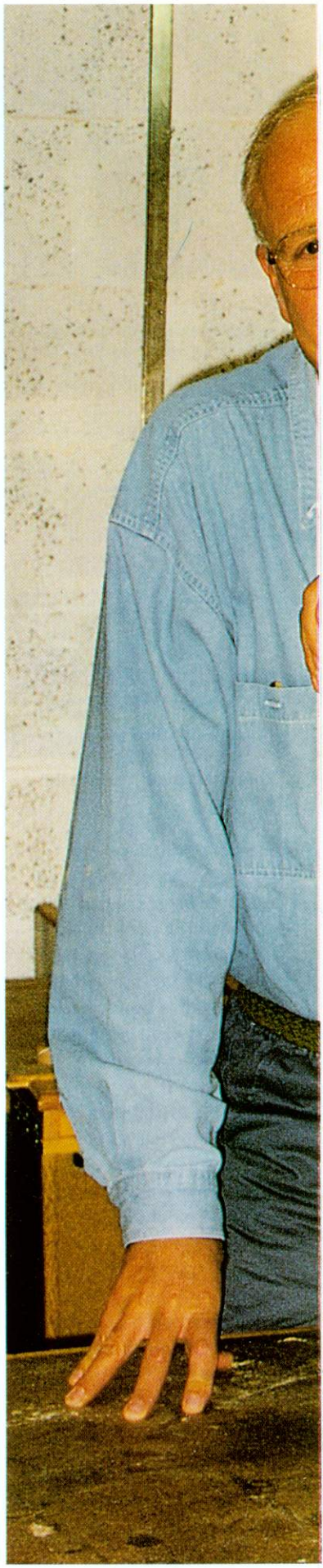
# Revolutionary Storage

**Unwilling to spend a fortune, yet in need of good storage facilities for his CDs, Don Phillips came up with his own economical solution**



My version is made out of half a sheet of cheap 12mm plywood and a 2800mm length of 35 x 35mm pine. It cost me less than £20.00 including the paint.

The CD holder makes use of the principle in which light sections bonded together give a structure its strength. Finally all the measurements are in metric. I am sorry if that means problems for some of you, but I live in a metric country and no longer find it easy to work in imperial.

## Tool Requirements

You will need a router (I use a B&D 780) with a 12mm straight cutter and a 45 degree chamfer cutter, a router table, a table saw or a jigsaw with a fine blade and a good straightedge, some clamps, a Workmate or similar, a power drill or brace and bit and a few everyday hand tools.

## Housing jig (Fig. 1)

Cut a piece of 6mm plywood or MDF, mine is 360 x 600mm, but you may have to suit your particular router table. Then glue on the underneath baton at right angles ensuring it is a good snug fit in the table slot. Any play here will be disastrous. Next, with a 12mm cutter fitted, locate the jig in its groove and lower it down onto the cutter until it breaks through. Cut your slot. Next glue your location strip exactly 12mm away from the slot and exactly parallel to it. This too must be an accurate 12mm wide. Finally, glue your baton at an exact right angle and it is finished. I also use small screws to double fix the two pieces. The jig can now be used for cutting the slots or reversed, machining the leg uprights.

## Construction

Study the cutting list (Fig. 2) and cutting plan (Fig. 3). It is essential to use a layout so all the grain will face the correct way when the unit is assembled. The diagram shows how I did it, but change it if you want to. Once all the sections are cut to size the unit is constructed in three separate pieces. The main carcase that actually holds the CDs. The base unit plus uprights and the top unit. The measurements given are critical to half a millimetre. If you have to deviate from them for whatever reason, say you can only get 20mm dowelling, you will have to compensate on the inner carcase uprights or they will foul the dowelling. The same applies to the plywood. If you use a different thickness, you will gave to adjust the measurements anything below 10mm is not practical by the way as when the housings are cut it tries to form a circle.

## Leg support (Fig. 4)

Machine a 12mm wide by 4mm deep housing around two sides of the leg so the top of the housing is 75mm from the end. Next, on the two adjacent sides, remove all the material from 75mm to the end of the leg, 12mm deep. This provides the rebates for all the side panels and leaves a 1cm foot. A look at Fig. 15 should show this clearly. Complete all four support legs in an identical manner.

## Carcase construction

Remove the router fence and using the jig you have made cut 12mm wide x 4mm deep housings that will eventually hold your CDs in each of the carcase uprights. You should get 17 in each. For the first groove, place the upright against the locating strip and for subsequent grooves place the one you have just cut over the locating piece. Mark each piece to show which end the first groove was cut so that when you come to assembly they will all be the same way up (see Fig. 5).

When they are all machined sand them, as it will be almost impossible afterwards and glue them together in pairs in the Workmate (see Fig. 6). They will have taken on a slight curve from the machining of the housings and using the Workmate will ensure the curve is removed. Take care that each piece faces in the correct direction and the ends are parallel. This is why you marked the ends to ensure that they will be a good match so make sure they are together now. This is the slowest part of the job, but my experience tells me that after 45 minutes clamped they can be removed from the Workmate and left to finish curing elsewhere

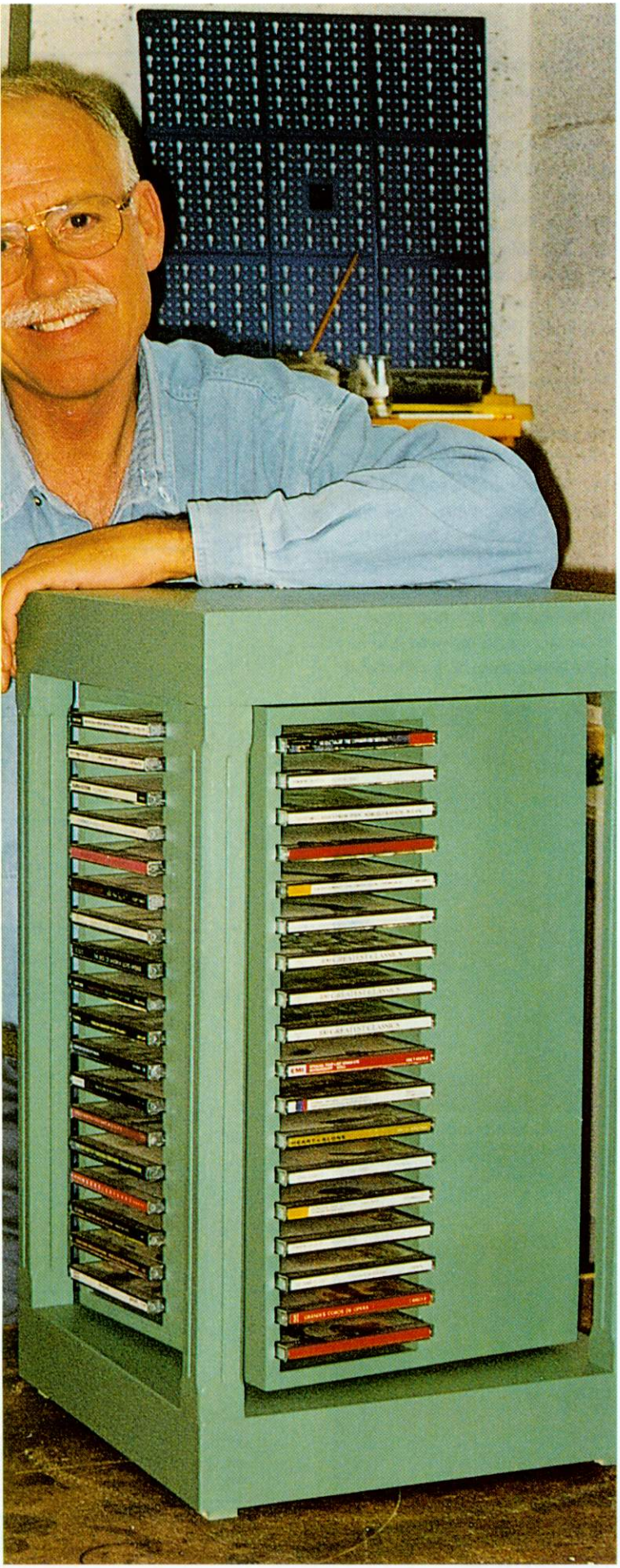


Fig. 5 Housings being cut in carcase uprights

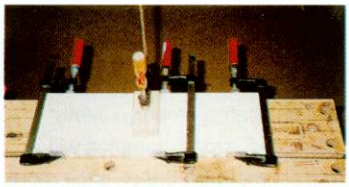


Fig. 6 Carcase uprights being glued at right angles

without any detrimental effects, freeing up the bench for the next pair, I drank a lot of tea during this stage. Also do not worry about this joint not being very strong as they will have plenty of other support when assembled.

## Step two

While the carcase uprights are drying find the exact centre of the carcase top and bottom sections (270 x 270mms) and drill a 12mm hole in each, this will eventually take your dowel so accuracy is essential. Unless you have a bench drill you will have to make this hole with a hand drill. As I do not find spade bits particularly accurate and very difficult to control, I bought a 12mm wood drill bit especially for this, clamped the pieces to some scrap wood to prevent breakout and used a slow speed and two try squares to help line up accurately.

Now remove your router from the router table complete with the 12mm straight cutter and fit your parallel fence guide. Using this, route the location housings in the top and bottom of the carcase unit (Fig. 7).

These housing are only for accurate location of the uprights and need not be much more than 1mm in depth. (Remember to make them opposite hand as I forgot this when I made mine and ruined one piece).

Sand them and you are now ready to assemble the carcase unit.

Apply a layer of glue to the housings in your newly routed carcase base and then position your now four upright angled carcase uprights into place taking care that all four are positioned accurately (Fig. 8), a try-square is useful for checking that they are upright and seated properly although you should not worry if they lean one or two degrees as all will be pulled into place when the top is fitted.

Then apply glue to the housings in the top of the carcase and position this over the other end of the carcase uprights. If you have made all the parts accurately this

## Cutting List

***12mm plywood sheet (all measurements in metric)***

2 off 360 x 360mm
2 off 270 x 270mm
8 off 360 x 60mm
8 off 440 x 130mm
Scrap hardwood for bearings (see illustrations)
Plywood off-cuts for reinforcing (see illustrations)

**Par pine**
4 off 600 x 35mm x 35mm
Others
One 600mms length of hardwood 12mm dowelling.
One 50mm piece of galvanised wire about 2mm in diameter.
Araldite

will be quite easy, but a few light taps with a soft mallet may be necessary to seat everything. When located properly, lightly clamp as strong clamping will distort the unit. Check once more that all is properly aligned and seated and leave to dry overnight. In the morning insert four screws (3mm x 20mm Pozidrive will do) through the base and the top and into the uprights halfway between the dowel and the edge. This just helps to keep everything together.

The last job is to fit the dowel. Now an individual CD does not weigh very much. However, when you get 70 of them together that is a different matter and more than glue will be required to support them. Therefore, insert the 12mm dowel through the carcase until an equal amount protrudes from each end. At whichever end you have decided will be the bottom (the unit can be made right or left handed) and where the dowel leaves the carcase, mark and then drill a small hole the size of your piece of galvanised wire through the centre of the dowel. With a craft knife cut a groove in the bottom face of the carcase across the 12mm hole, just deep enough to take the galvanised wire and replace the dowel in the carcase setting the wire into this groove. Now glue the dowel and wire into place in the carcase with Araldite or similar and put to one side to cure.

## Construction of the base and top

Firstly I return to the router table and using the 12mm cutter and with the housing jig reversed machine all four support legs as shown (Fig. 4, diagram of legs and Fig. 11). I used the 12mm drill to remove most of the waste and just cleaned them up on the router.

Then replace your router in its table and with the 45 degree chamfer cutter, chamfer the two 360 x 360mm pieces on all four sides and the eight 360mm x 60mms pieces on three sides, one long side and the two short (Fig. 12). This is to stop the plywood laminations showing when the unit is assembled. Now cramp two battens at rightangles to each other on the corner of the bench as a guide and assemble the top unit. If you glue on two of the sides and wait 30 minutes you can then turn the unit through 180 degrees and assemble the other two sides. When cured add the reinforcing pieces and the hardwood bearing block. Using a straightedge find the exact centre of the bearing block and mark. This can now be removed and a 12 x 20mm deep hole drilled in it

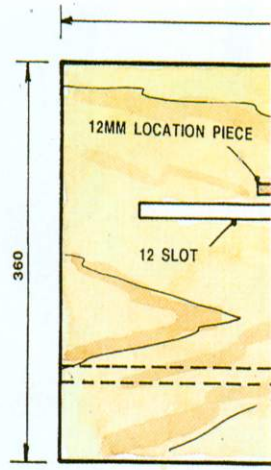


FIG 1

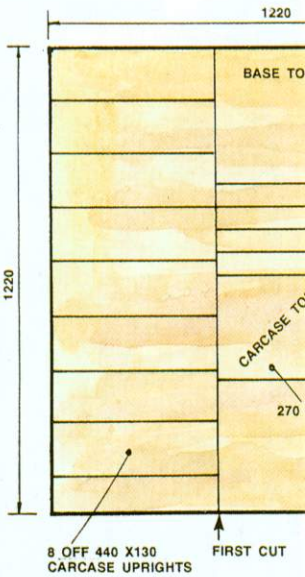
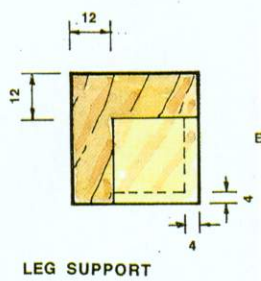


FIG 3



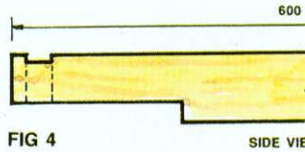



FIG 4

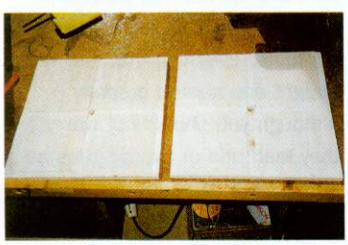


Fig. 7 Main carcase base and top

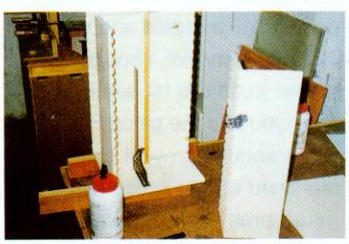


Fig. 8 Main carcase being assembled

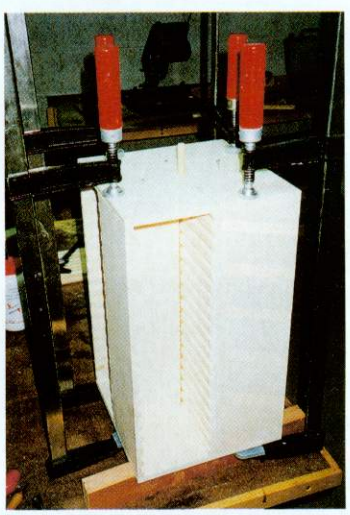


Fig. 9 Main carcase being clamped

Fig. 10 Chamfering edges

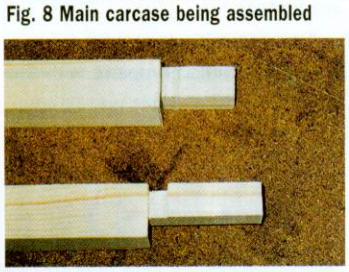


Fig. 11 Leg machining detail

Fig. 12 Top of base unit with leg holes cut

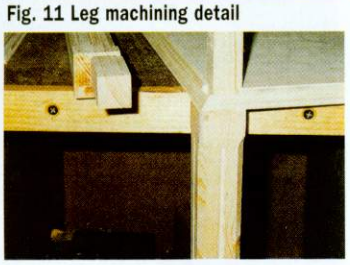


Fig. 13 Close up of fitting the legs

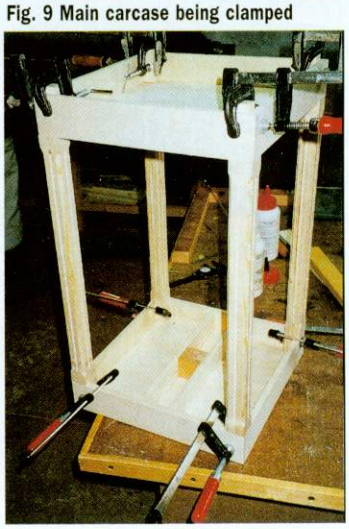


Fig. 14 Base assembly

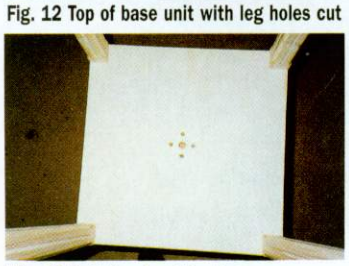


Fig. 15 Details of reinforcing screws

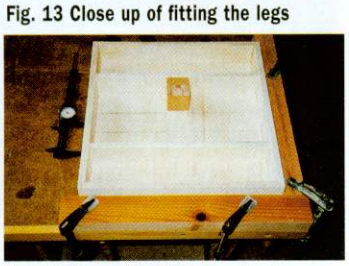
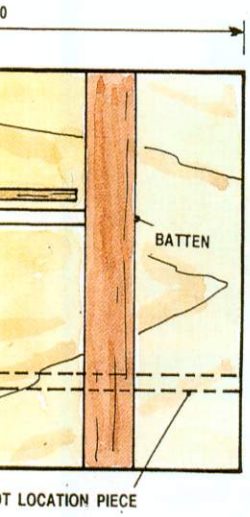
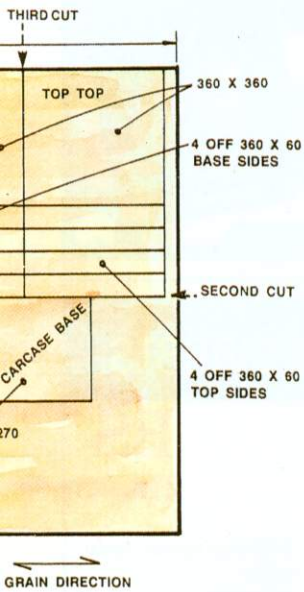
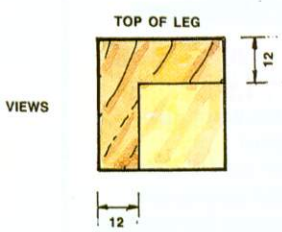


Fig. 16 Top unit being assembled



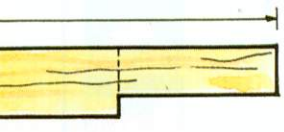



Fig. 17 Three sections ready for assembly

at the drill stand. Using the pencil marks you can now glue all three components into place confident you have your bearing hole at dead centre (Figs. 13 and 15). The top unit is now finished.

## The base unit

Dry assemble the unit without legs and mark in each corner a square of 200mm. This is the inner limit of the aperture. I then drilled a hole in each of these and nibbled the rest out with a jigsaw and a file, using my marked lines as the inner limit of the hole and working out to the edge until the lower part of the leg would just slip through it (Fig. 13A),
I used a metal work blade in the jigsaw and a metal work file as they being finer they have far less tendency to splinter out wood. You can buy cheap blades and files that will do this job perfectly well, just do not try to cut metal with them. Now sand everything.

I assemble in two stages. Firstly apply glue to each of the legs and push then through the holes and make sure the rebates are correctly seated (Fig. 14). Now turn the whole thing upside down and glue and lightly clamp the four side panels into place (Fig. 15) and leave to dry.

You will have to work fairly quickly at this stage and it will help if you have previously dry assembled the unit to check all is as it should be. When dry glue in the reinforcing strips and the hardwood bearing for the dowel to run in. Ensure this centre by measuring in from each edge. When dry turn back the right way and using a try-square from each of the sides find and mark the exact centre and drill a 12mm hole, 20mm deep. This bearing will take the whole weight of the inner carcase so I also add four screws (Fig. 16). I also add a liberal splosh of candle wax to the hole.

## Final Assembly

The three parts can now be trial assembled as a final unit. Make sure you have the end with the reinforcing wire at the bottom place the main carcase onto the bottom unit. Cut the dowel to length so that the unit sits in its bearing hole with a 5mm gap between the main carcase and the base unit. When you have this right sand a small chamfer on the dowel and apply candle wax. (NOTE : If you find you have trimmed off too much do not despair. A small washer placed in the bottom of the bearing hole will restore clearance).

Now place the top unit over the legs and locate the dowel in its bearing hole. Cut the dowel so the top unit seats down on the shoulders of the legs. This time length is not quite so critical as this bearing only floats. If you have it right it will look like the one in Fig. 18. The top unit will rest on the top of the leg uprights and the main carcase will revolve easily with about half a centimetre gap between it and the top and bottom units. If all is well you can now glue and clamp the top unit in place.

## Finishing

The unit can now be painted or stained and varnished. This one is going to a friend's teenage daughter and this colour was chosen to match her room furnishings. I have now made four of these for various people. Two wanted then stained dark oak, one was painted and one I made in pine. Of course if you are a skilled turner (I do not posess a lathe) you can make the leg uprights as fancy as you like, I settled for adding a few details with the router. You can also make the whole unit from pine or one of the various hardwoods, but remember that light weight is an important factor of the design and you would probably have to go to a thicker diameter dowel and wire support and make all the adjustments to the measurements that thicker material would entail. It would also cost more that £20.00! Happy listening.

Fig. 18 Finished unit

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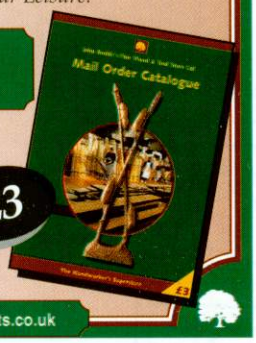


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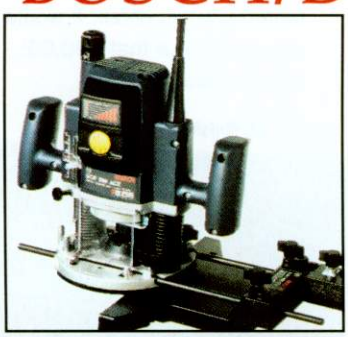

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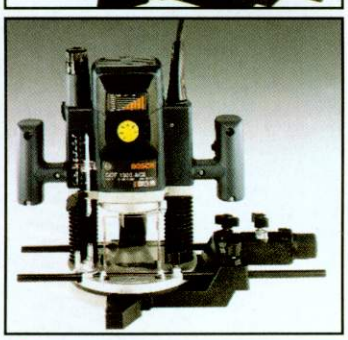

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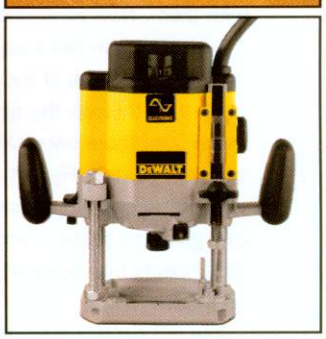


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**Closing date for entries is 30th September 1998**

**The first correct entry pulled from the hat on that day will be judged to be the winner of the table.**

**The winner will be notified by post after the draw and the name will be published in a future edition of the magazine.**

# Tissue box

**Simple ideas are not to be sneezed at as Betty McKeggie explains**

In this country we use over 43,600 tons of tissues a year, so there can be few homes that would not welcome an attractive box to keep them in. This box looks well with traditional furniture, but the design could be adapted to have a modern look, using a lighter wood.

The box was made of some offcuts of African walnut, with banding of boxwood with a black centre strip.

The top has a hand hole cut using a guide bush and template, the sides are dovetailed and the bottom slides out to allow the cardboard box of tissues to be inserted.

The dimensions suit boxes of standard size tissues. Some boxes are deeper than others, so if you usually use one particular brand, check that the cardboard box will fit snugly into the dimensions given. 'Mansize' tissues would need a bigger box altogether, so if you usually have this larger size, the dimensions will need to be adjusted accordingly.

## The box body

The side and end pieces were cut roughly to size and the grooves to take the bottom slide were cut 4mm up from the bottom edges. The bottom 12mm of one short side was cut off to make the end piece of the slide.

This piece was then taped firmly back on. (If the cut were to be made after the box body pieces were finally sized, the end piece would be short by the width of the saw kerf).

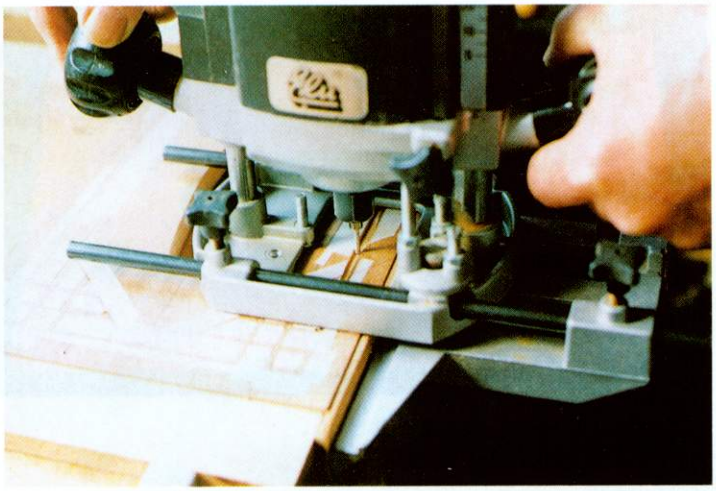
The side and end pieces were then accurately sized and the tape removed from the slide end piece.

Dovetails were cut for the corner joints. The box body pieces were then trial assembled to check that the upper edges were all level and when they were, were glued and clamped.

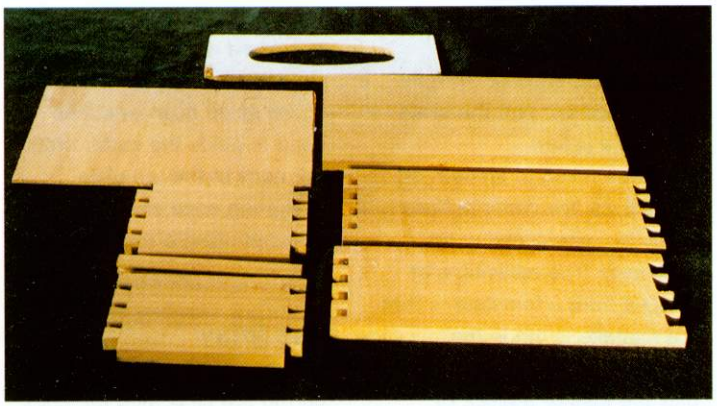
The plywood bottom was checked for fit and then glued into the cut-off section of the end piece.

## Cutting the hand-hole

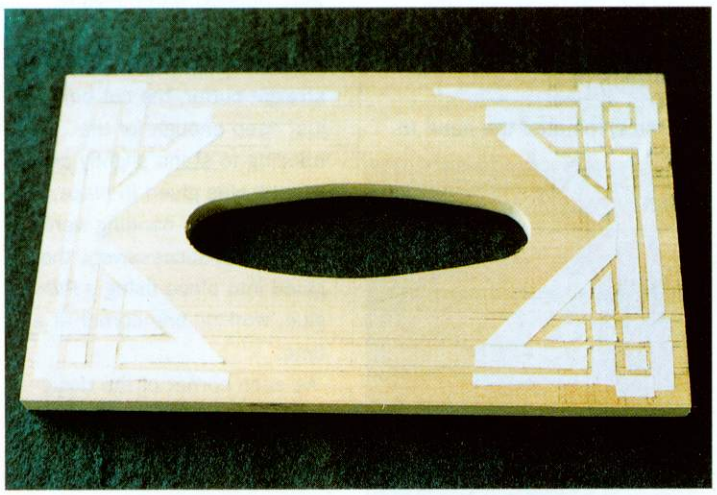
A template was made first of all, using a scrap piece of timber slightly thicker than the guide



Cutting the grooves for the banding



Box components and template piece



Box top design marked out

# Cutting List

(finished sizes)

| No. | Length | Width | Thickness |
|---|---|---|---|
| 2 Sides | 290 | 100 | 12 |
| 1 Lid | 302 | 112 | 12 |
| 1 End | 160 | 100 | 12 |
| 1 End | 160 | 100+ | 12 |
| 1 Bottom | 278 | 88 | 4 (plywood) |

2 1 metre lengths of three line box outside black banding
3.4mm + Plus allowance for saw kerf

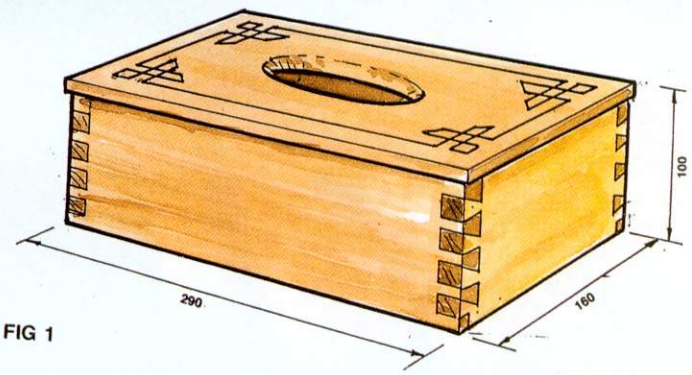
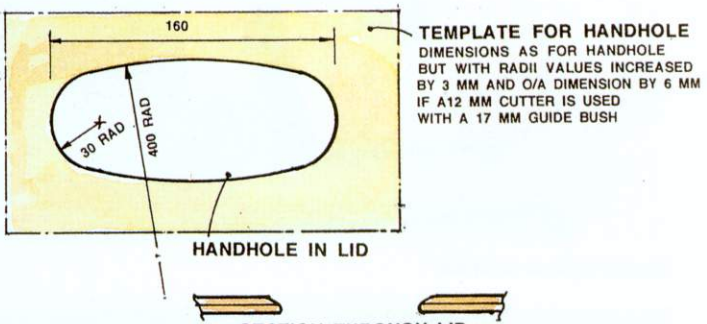



FIG 1

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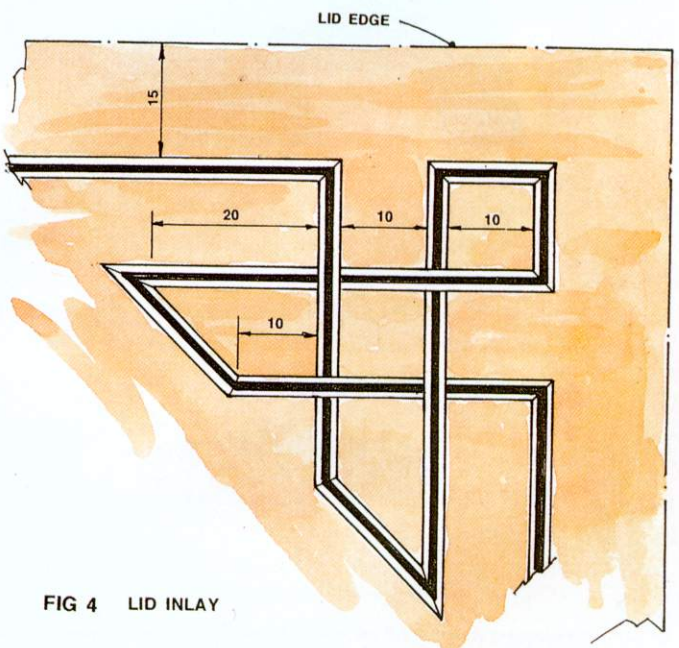



FIG 4 LID INLAY

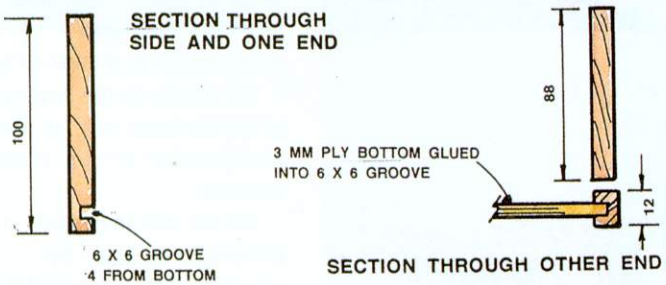
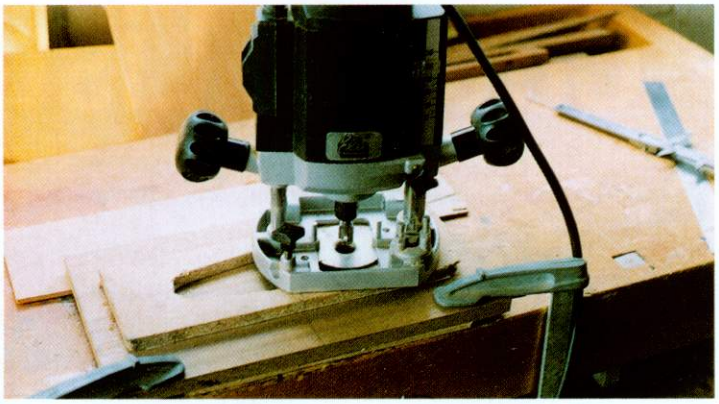
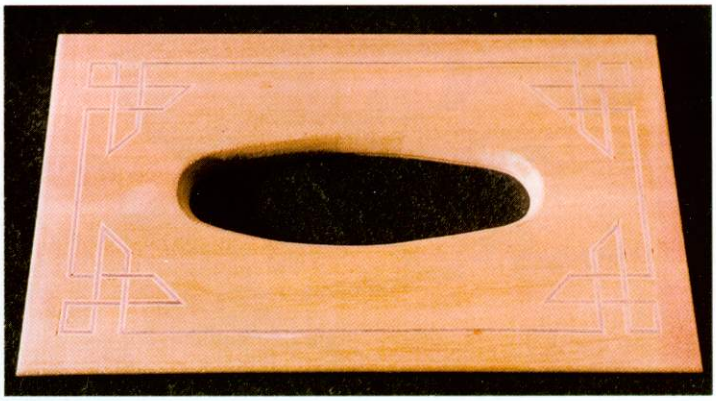


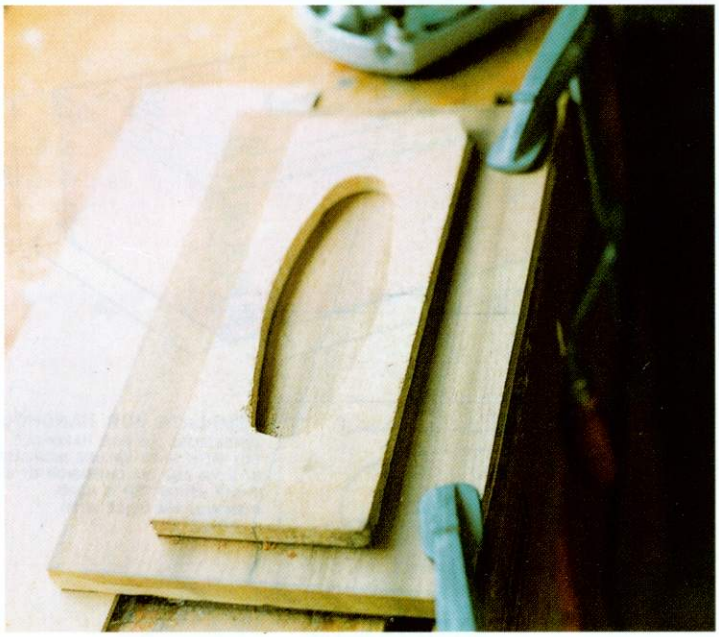

FIG 3



Cutting the handhole, using the template and guide bush



Box top with inlay fitted



Template stuck to workpiece

bush depth.

The dimensions allowed for the use of a 17mm guide bush and a 1/2in. straight cutter.

The rounded ends of the hole were drilled out and the sides cut with a jigsaw.

Care was taken to smooth off the cut, as any imperfections would be reproduced in the workpiece. The advantage of working from a template is that if a mistake is made the template can be discarded with only the loss of a piece of scrap.

To cut the hand hole the template was stuck to the workpiece with double-sided tape.

This eliminated the need to use clamps to keep the workpiece and template together, as clamps would have interfered with the freedom of movement of the router.

The guide bush was then used to guide the cutter around the edge of the template.

The top edge of the hole was rounded using a rounding cutter.

## The inlay

The design was drawn in pencil on the top piece and the ends of the grooves for the banding were defined with masking tape.

The grooves were cut with a straight cutter, the cut being just deep enough for the banding to stand slightly proud when it was glued in place.

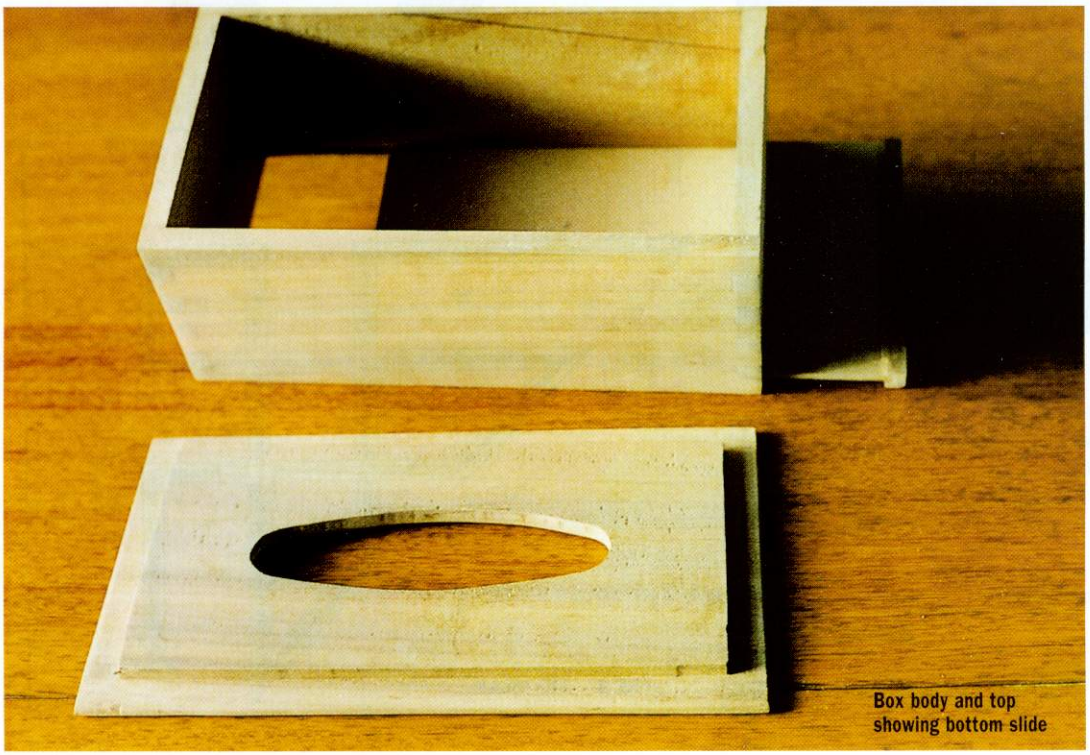
The lengths of banding were cut and mitred successively, then glued into place using a PVA glue, working one corner at a time.

As each corner of the design was finished, the workpiece was covered with waxed paper, then a pad of four sheets of newspaper, before being clamped under a board to set.

When all four corners were finished the top was sandpapered to a level surface.

The rebate on the underside of the top piece was cut using a straight cutter and the edges rounded.

The top was then glued in place and the whole box varnished with a polyurethane varnish.



Box body and top showing bottom slide

# Tales of a woodworker's wife

One of the things I really enjoy about working together is dealing with a customer who is really pleased with a piece of furniture we have made. The thing is some people know exactly what they want and others are unsure.

Sometime ago our G.P mentioned that he would like a kitchen table made. We agreed and started thinking this would be a joy to make. When a new project is started one of the first things to be decided is what timber is to be used. He didn't quite know and we made some suggestions. We didn't hear for some time and thought that maybe he had decided against the whole idea.

When my husband went to the surgery about a sinus infection he was somewhat perplexed when our doctor looked him straight in the eye and said, "You know, my wife quite fancies yew." "But she's never met me" says my husband, "No, the wood for our table" says the doctor. It appeared the table was still on after all.

Eventually the material was agreed. We appeared to be making good progress until I suggested crossbanding the edge of the table top and inlaying the centre with a marquetry picture and I could see his eyes glaze over with the sheer effort of thinking about it.

The top took shape very quickly and very nice it looked too. We reached the stage where the legs had to be drawn in detail and somehow or other the drawings with were not quite right but eventually we got there. Now if I thought that was bad, it was nothing compared to deciding the final colour. Fuming the table in ammonia appeared to be the way forward and everything was fine until the Dr.'s wife asked her husband what he thought. Well, we did not give him time to answer and we suggested ever so nicely that he was more than welcome to come round and help and he could decide when the colour was right. This he did, but after looking out of my kitchen window and seeing them both staggering round the garden obviously underestimating the effects of the ammonia.

The end result was worth all the effort. In fact, he was so, enthusiastic about the finished table that he came and picked it up himself, but how he reversed onto the drive is another story!

*Donna*

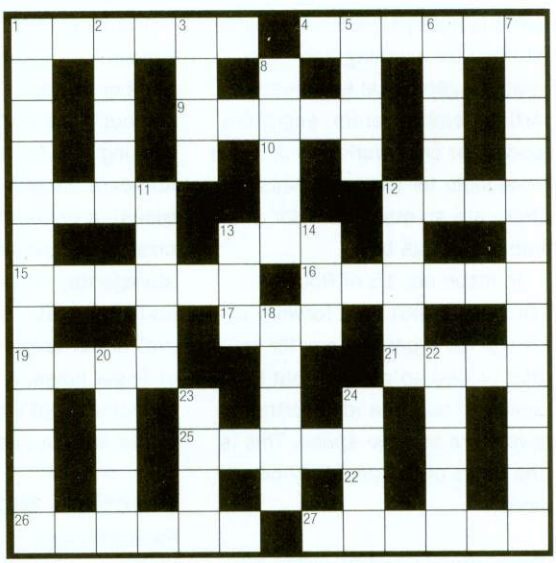
# Prize Crossword No.2

**CLUES ACROSS**

1 Crop with twist for legs and fluting machine (6)
4 Was concerned around five that piece was skilfully created (6)
9 Newly routs for visits (5)
10 Cover on router augmenting tidy work of 7 (4)
12 Drab exchange for nail (4)
13 Long time in router alteration (3)
15 Alter point before note for making choice (6)
16 Sever end when isolated ? (6)
17 & 24 Down: Recover and bring water source ? (3, 4)
19 Piece of equipment such as 11 (4)
21 One thing underfoot! (4)
25 Not a straight feature (5)
26 Most uncommon pianter with the others (6)
27 One who smoothes wood flying a lot ? (6)

**CLUES DOWN**

1 Reborn chemist anagram for stand-mounted machine (5,8)
2 Wireless for the old chaps! (5)
3 Adjusts seat and has a snack (4)
5 In ideal softwood too (4)
6 Eye protector for knight? (5)
7 Feds do clutter anagram to shift aprticles in router operation (4, 9)
8 Sweet additive with 1 is sweet! (5)
11 Military training for making holes! (5)
12 Uses teeth! (5)
13 Easter surprise in leg grooving! (3)
14 Take decision to work on stage ? (3)
18 One more added for the cricketers perhaps (5)
20 Rout strangely round east distant space! (5)
22 Made of a certain type of wood (5)
23 Rebuild case for the tops (4)
24 See 17 across



**Answers** **Prize Crossword No. 1**

**Across**
7 Usage; 8 Examine; 9 Tidiest; 10 Acted; 12 Soul Plates; 15 On The Table; 18 Tenth; 19 Not Well; 21 Curtail; 22 Incur

**Down**
1 Cutting Out; 2 Cards; 3 Here; 4 Mental; 5 Parallel; 6 Dictate; 11 Distillers; 13 Overhead; 14 Stoners; 16 Arnold; 17 Fence; 20 Trim

The sender of the first correct entry drawn, will receive a cheque worth £50.00 courtesy of Routing magazine.

**Closing date is: 13th September, 1998**

Send entries to: Crossword No. 2, Routing, Nexus House, Azalea Drive, Swanley, Kent BR8 8HY.

Name: .....

Address: .....

.....

Postcode: ..... Tel: .....

# Collector's cabinet

**For people who collect things Jack Hudson has designed a multi-stack cabinet that will hold anything from medals to artist's colours**

This design not only makes an attractive piece of furniture but meets the needs of enthusiasts who have to store a wide variety of similar items. It will be appreciated by naturalists, numismatists and any other serious hobbyist and can provide storage for anything from beer mats to geological specimens. Artists, embroiderers, engravers and other craft workers will find it invaluable for their materials - there are so many uses for a cabinet of this type.

In issue no. 15 of Routing (October 1996) I put forward a design for a pastels box for artist that proved so popular that I was asked to take the idea further to give more storage space. This is the basis of the design shown here.

## Design considerations

When you make an article for someone else's hobby you must discuss their requirements very fully. Find out how much potential storage capacity they might require. Ask them about the way they wish to lay out their storage trays and whether there are different sizes of items. For example the numismatist may have a range of different diameters of coins or medals, the naturalist needs a cork base to pin out the specimens and sheet music collectors need no partitions. Establish how deep the trays need to be: obviously coins will need very shallow pans whereas embroidery silks are wound on 40mm (1 1/2in.) cards. Make deeper trays, if requested, for equipment and materials and a wipe-down working top may be an asset.

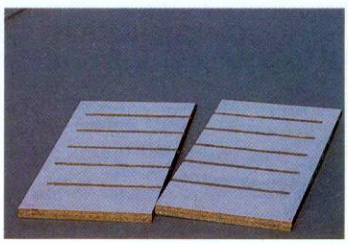
The height of the stack, within reason, can incorporate any number of trays. The artist's cabinet illustrated here, has a working top, for trays for standard pastels (or colour tubes), a deeper tray for jumbo-sized ones and an even deeper storage tray at the bottom for odds and ends. Some people may prefer drawer pulls instead of finger holes. A sheet music collector might want drop-down fronts without sliding trays.

## Practical thoughts

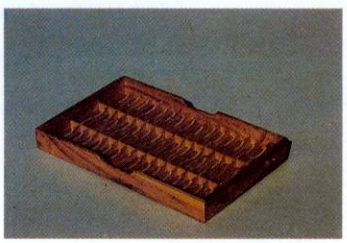
Particle board is cheaper and easier to work than a good hardwood and may be bought with a plain or imitation wood facing. One way of finishing plain board is to use black and white lacquer as described later. Your personal taste, skills and the tools that you have at your disposal, as well as cost, will all influence your final design.

A number of alternatives are available for the stand. You may decide that a cupboard base with shelves and doors in hardwood or particle board will be most useful: or you may choose a

1) Slots routed in sides for shelves.



2) A typical tray.



9) Finished cabinet and trays.

stand on four legs. You can use cabriole legs (Fig. 1.) or a plain stool (Fig. 2).

You can make the cabriole legs in the workshop, or you can buy factory-made legs, which will probably need to be stained or painted. Alternatively it is easy to make simple square or turned tapering legs.

The perfect joint for the rails is the mortise and tenon. There are a number of devices on the market for making mortise and tenon joints, but, without a special jig, you can use a drill stand, the router or a power saw for most of the work. Home wood workers sometimes shy away from traditional joints, which are quite simple to do, even by hand. Dowels or biscuit joints are acceptable alternative.

Make the cabinet and the trays before you start on the stool so that they fit together well.

## The cabinet

The following relates to the artist's cabinet shown here, which is made from 16mm (5/8in.) board, but the construction principles are the same for any layout. You will have to adjust the dimensions to suit your own, or your client's requirements.

## The sequence

1. Cut the top, bottom and sides to give the correct depth from front to back. Allow for the back panel being let into the carcase and arrange for the trays to finish flush with the front edges before the half-round moulding is applied.

2. Cut the two upright side panels to the finished height allowing for the half-joints at top and bottom.

3. Mark the exact positions of the shelves that carry the trays. Using an 8mm (5/16in.) straight fluted cutter work the chases from the back of the uprights stopping the grooves about 25mm (1in.) in from the front. Rout the chases to half the depth of the material and align them with the top of the shelf.

3) Collection of trays for different uses.

### Tip

**An overhead routing device makes stopped housings most easily, or you can work them freehand with a home-made clamped guide or a commercial guide.**

4. Cut the top and bottom panels and the shelves to exact length and form the rebates for the half-joints at each end. It is advisable to make the shelf boards a millimetre or so short so that they will not prevent the sides pulling up tight during assembly.

### Tip

**It is easy to make rebated joints on the router table, otherwise work them with the hand-held router and fence. A 35mm rebate cutter with a 19mm bearing gives a 7.9mm rebate, set it for 8mm depth of cut and this is ideal for 16mm board.**

5. With a back saw take off the front 25mm (1in.) of the shelf half-joints to match the stopped chases in the side panels.

6. Work the rebates round the inside back edges of the carcase framing to accommodate the back panel. This makes a neater and stronger job than simply pinning and gluing the back panel to the back edges of the carcase and it facilitates assembly. The back panel may be 3mm MDF, hardboard (3.2mm) or 4mm plywood.

7. It is a good idea to clamp up the carcase dry with sash cramps a this stage. You can then make an accurate measurement for the back panel which when cut exactly square will set everything true at the final gluing up stage. At the same time measure up for the half-round edging strips on the faces, to be fixed at final assembly.

8. A white work surface on the top surrounded on three sides with a moulding is useful for artists. Prepare it at this stage and cut the mitred mouldings to be fixed at final assembly. Use white Formica or white lacquer for the wipe-down surface.

9. If you have decided to use the black and white lacquered finish, do as much of the interior as possible before assembly (see Finishing at the end of this feature).

10. Glue the carcase together, alight the shelf fronts and make sure that it is perfectly square.

11. Face the front edges of the carcase and shelves with a half-round edging strip. Mitre the four outside corners of the moulding and half-mitre or V-joint the crossbars into the uprights.

## Trays

Design your trays to meet the needs of the individual hobbyist; the ones illustrated here hold 48 sticks of pastel chalks. The drawings also show suggested alternative layouts for coins or cards . Make the depths of the trays to suit the intended use.

The trays are loose fitting, to be take out and placed on the top work surface. For some interests it may be better to make close-fitting drawers running on slides, or hinged front panels to the openings instead of trays.

## Divided trays

1. Cut the tray fronts, backs and sides from 9mm material. I used a nicely figured hardwood, but you could use MDF and lacquer them black or white.

2. Rebate all the ends to form the half-joints. Rebate the bottoms all round to provide a housing for the floor panels.

### Tip

**Tip: In this thinner material use a smaller rebate cutter, say 24mm with a 16mm bearing and set the depth of cut to half the thickness of the wood.**

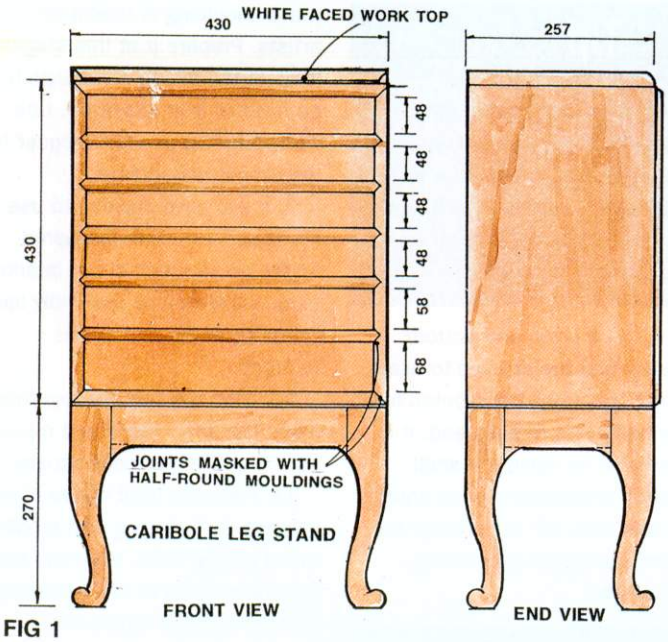



FIG 1

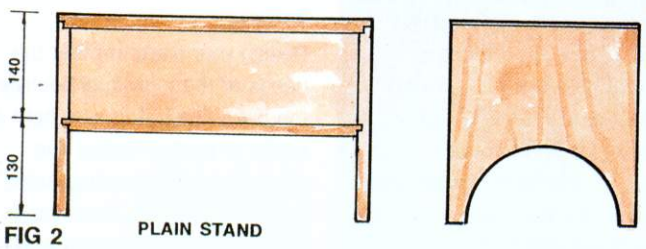



FIG 2

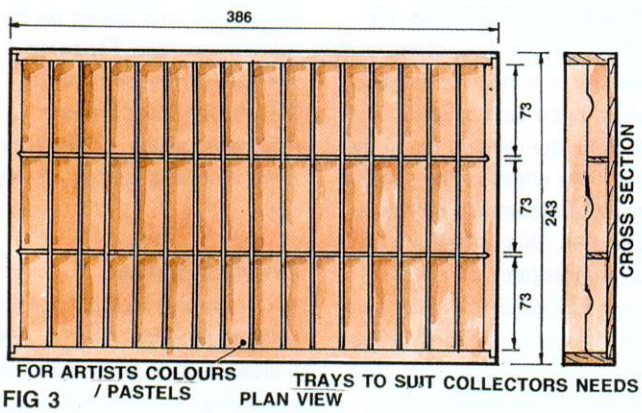



FIG 3

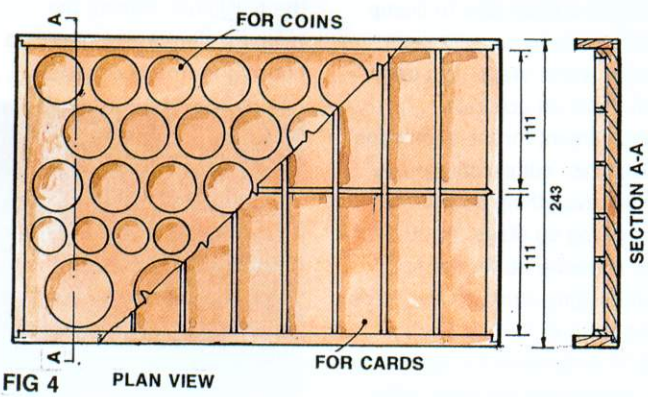
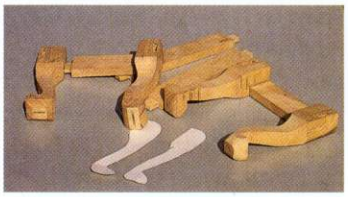
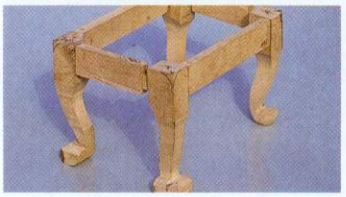



FIG 4 PLAN VIEW



4) Cabriole legs and framing in preparation. Note cardboard templates.



5) Dry assembly of stand before shaping of legs is finished.

(Dovetail or mitre joints may also be used)3. At the centre of each long side make a finger slot for pulling out the trays. Slots are easy to work on the router table using a 35mm rebate cutter sliding the work between two fixed marked . Alternatively cut them with a jigsaw or fretsaw. The finger slots allow the trays to be put in either way round, but you may prefer to drill finger holes, or provide drawer pulls on the front.

4. Assemble the trays dry using a cord or strap clamp to make an accurate measurement for the inset floor panels that must be cut square and true. Also make a careful check measurement at this stage for the longitudinal and cross partitions.

**Tip**

**The old way of using a piece of strong cord and eight small wooden blocks may be used to clamp up the trays, but a picture-framer's band clamp or a webbing strap clamp makes the work much easier.**

5. Make the dividers in the trays from 3mm MDF or 4mm plywood. Eggbox construction is the best way to do this. The longitudinal partitions are V-jointed into the tray ends, but the cross pieces may be butt-jointed to the walls with a spot of glue. Mark the position of the intersections carefully and cut or rout 3mm (1/8in.) slots to half the depth of the dividers.

**Tip**

**Clamp the dividers in batches and cut the slots with an overhead router or a radial arm crosscut saw. Specialist dovetail jigs may also be adopted to do this task.**

6. Work half-moons in the cross dividers to facilitate removal of item using the 35mm rebate cutter.

7. Assemble the trays using a good adhesive and pin the floor panels with very small panel pins, say 12mm (1/2in.).

8. Insert the egg-box partitions, locating the long ends into the V-joints, using touches of adhesive as required. Aliphatic resin adhesives are very good because they allow a certain amount of adjustment during assembly and give a good bond when cured. Spots of quick-setting cyanoacrylate adhesive may help.

9. Clean and finish the trays all round, slightly rounding the corners.

## Coin trays

1. Use 19mm (3/4in.) MDF or chipboard for the bases. Frame it with 9mm hardwood as in the divided trays at steps 1 to 3 above.

2. Coins and medals may not need trays more than 30mm to 35mm (1in. to 1 3/8in.) in depth, but consult with the collector first.

3. Work rebates all round the

**Tip**

**Tip: Holes of 45mm (1 3/4in.) down to say 20mm (3/4in.) diameter may be required. Forstner or sawtooth bits give a flat-bottomed hole. An expansive bit will cover a range of sizes.**

solid base board for the sides.

4. Set out the arrangement of countersunk holes for the different sizes of coin.

5. Drill the holes to a depth of 12mm (1/2in.) using a drill stand.

6. Finish the base board with clear varnish or black lacquer.

7. Cut and glue felt circles (bright red looks attractive) for each hole and glue them in to cover the dimples form the drill bits.

8. Frame the trays with the hardboard strips, sand and finish as required.

## The stand

Cabriole leg stand (see figures 1 & 7)

1. Make the sand in English hardwood (ash or sweet chestnut work well) with 55mm (2 1/4in.) square legs and 55mm (2 1/4in.) x 20mm (3/4in.) rails.

2. Mark out and finish preparing the top joints before doing any shaping. This applies whatever joint you are using.

3. Tenons are traditionally one-third of the thickness of the rails, with a 15mm (5/8in.) shoulder at the top and 6mm (1/4in.) at the bottom. With this leg size the mortises need not be deeper than 25mm (1in.) and are easily drilled out and chopped with a mortise chisel. If you rout the mortises you have to square the corners with a mortise chisel.

4. To ensure uniformity it is advisable to make a cardboard template for the cabriole leg shape shown in the diagram. If you are not using square stock the side and front views will need two special templates.

### Tip

**If you are using the bandsaw I recommend a 6mm (1/4in.) blade with 10 tpi or 14 tpi.**

Take care to differentiate between the left- and right-handed shapes (opposite corners are the same).

5. Cut the leg shapes as carefully as you can. Slow and accurate cutting will leave less ridging and after-work to do.

6. A dry assembly will check that your joints pull up properly and will give you a feel for the finished shape.

7. Use the spokeshave for first rounding over, followed by rasps and scrapers. A drum sander (or flapwheel) in a power drill or flexible drive will do most of the final shaping work easily. This satisfying work calls for a good eye to achieve uniformity.

8. After finishing the legs to your satisfaction, glue and clamp the stand together. Glue and dowel eight ear pieces, approximately 32 x 25 x 20mm (1 1/4 x 1 x 3/4in.) into the corners between the legs and the rails. Shape them to carry the back curve of the cabriole legs into the rails.

9. Up-turn the cabinet carcase and place the base on it. Screw and glue 25 x 25mm (1 1/2in. square) cleats to the cabinet base within the stool framing. These locate the cabinet accurately on the base and allow the two to be separated. If you wish to prevent inadvertent separation you can use turn-buckles into slots in the cross runners.

10. Put chrome dome sliders on the underside of the feet, or castors if you prefer.

## Plain stand

The construction is identical to the method used for the carcase, as the drawing shows.

## Finishing

A collector's cabinet is a hardworking piece of furniture and will probably be in daily use. For this reason I chose Rustin's Plastic Coating to finish the project. I have found it to be the most durable finish and such a joy to use, giving a hard protective surface that may be burnished to a mirror-like finish.

You may make the carcase in an attractive hardwood with a clear finish, but particle board is cheaper. It is obtainable as chipboard, MDF or blockboard with or without decorative facings. I used Rustin's black

## Suppliers

Axminster Power Tool Centre
Chard Street
Axminster
Devon. EX13 5DX.
Tel: 01297 33656

Boddy's
Boroughbridge
North Yorkshire. YO5 9LJ.
Tel: 01423 322370

Craft Supplies Ltd.
Miller's Dale
Buxton
Derbyshire. SK17 8SN.
Tel: 01298 871636

Rustin's Ltd.
Waterloo Road
Cricklewood
London. NW2 7TX.
Tel: 0181 450 4665

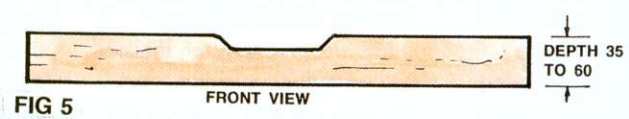



FIG 5

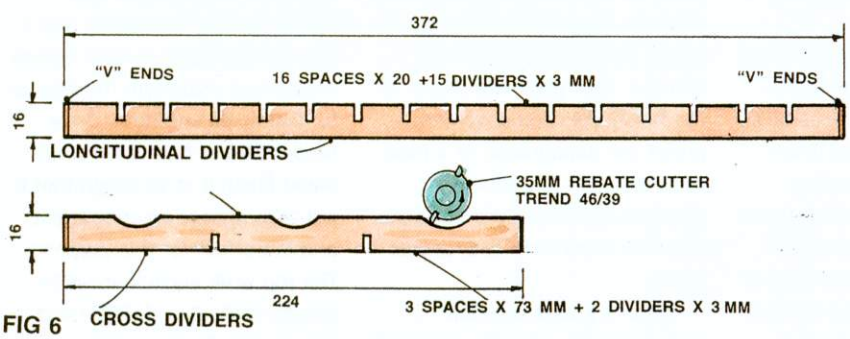



FIG 6

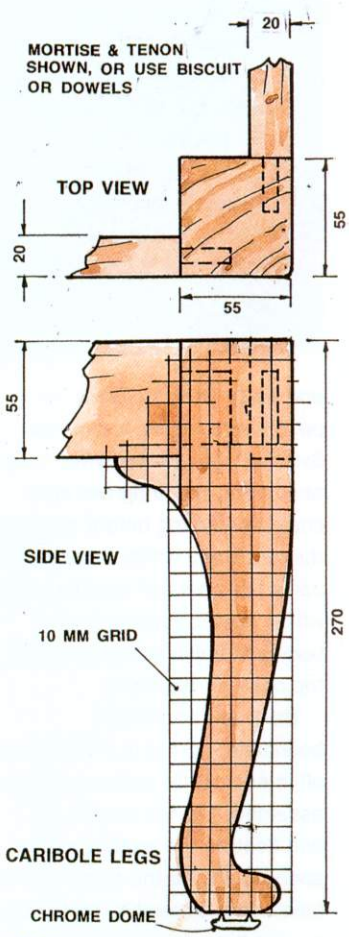



FIG 7

# Cutting List

| Item | No | Length mm | Width mm | Thickness mm | Material |
|---|---|---|---|---|---|
| Carcase | | | | | |
| Top and bottom | 2 off | 414 | 257 | 16 | Particle board |
| Sides | 2 off | 430 | 257 | 16 | Particle board |
| Shelves | 5 off | 414 | 253 | 16 | Particle board |
| Back | 1 off | 414 | 414 | 3 or 4 | Hardboard/MDF |
| Working top | 1 off | 430 | 257 | 3 or 4 | Hardboard/MDF |
| Top moulding | 1 off | 1m | | | |
| Half-round edging | 1 off | 4m | | | |
| Cleats on base | 2 off | 147 | 25 | 25 | Softwood |
| Trays | | | | | |
| Fronts and back | 8 off | 386 | 40 | 9 | Hardwood |
| Sides | 8 off | 234 | 40 | 9 | Hardwood |
| Bottoms | 4 off | 377 | 225 | 3 | Hardboard/MDF |
| Cross partitions | 60 off | 224 | 16 | 3 | Hardboard/MDF |
| Long partitions | 8 off | 372 | 16 | 3 | Hardboard/MDF |
| Larger tray No 5 (50mm deep) and bottom tray No 6 (60mm deep) for materials without partitions | | | | | |
| Numismatist's trays are 16mm slabs with holes drilled (see text) | | | | | |
| Stand (Cabriole legs) | | | | | |
| Longitudinal rails | 2 off | 370 | 55 | 20 | Hardwood |
| Cross rails | 2 off | 197 | 55 | 20 | do |
| Legs - out of | 4 off | 270 | 55 | 55 | do |
| Ear pieces | 8 off | 32 | 25 | 20 | |
| Stand (simple stool) | | | | | |
| Top | 1 | 430 | 257 | 16 | Hardwood |
| Ends | 2 off | 262 | 257 | 16 | Particle board |
| Shelf | 1 off | 414 | 257 | 16 | Particle board |

and white plastic coating on plain board to give a contrast. Synthetic boards are often very absorbent, requiring two clear coats as sealing before applying the black and white. After sealing apply two coats of the black (or white) plastic coating to give body and finish with one or two top coats of the clear.

There are no difficult boundaries to cut in if you finish all interior white surfaces before assembly. Lay the boards flat and float on the coating with a good brush. Do the black outside faces after assembly, preferably turning the work over to present a flat top surface for each coat. Leave this a short time, say ten minutes, to begin setting before turning the carcase up for the next face and there will be no curtaining. Give the half-round mouldings a black coat before fixing them and touch them up afterwards.

By adding one or two top coats of the clear plastic coating you can burnish these surfaces to a real Oriental lacquer-like finish. You can use any fine cutting paste, such as T-Cut or Rustin's burnishing paste, to polish the cabinet. This sounds like a lot of work, but in practice you will find that you can apply a coat per hour, all round, in a warm dry atmosphere and that four or more coats can easily be brushed on in a morning.

You will probably find that you can work almost continuously because the first surfaces are ready for the second coat by the time you have finished the last panel. Burnishing is no more arduous than polishing brass, or the family car. Some workers prefer the appearance of a matt or satin finish and this is obtained by flatting the surfaces with fine steel wool and/or wax polish.

Rustin's give a very full instruction on using the material. It is a two-solution mixture and after mixing may be stored in a cool place, with a lid on the jar, for several days whilst completing the job in hand. Although it sets so quickly after application it must be left for at least two days to cure and harden before burnishing and it may be five days or more before it develops maximum resistance to chemicals and heat. Once hardened and burnished to a piano finish it is so tough that it will take almost any treatment and is perfect for this purpose. The top work surface in white plastic coating is cheaper and easier than Formica and just as serviceable.

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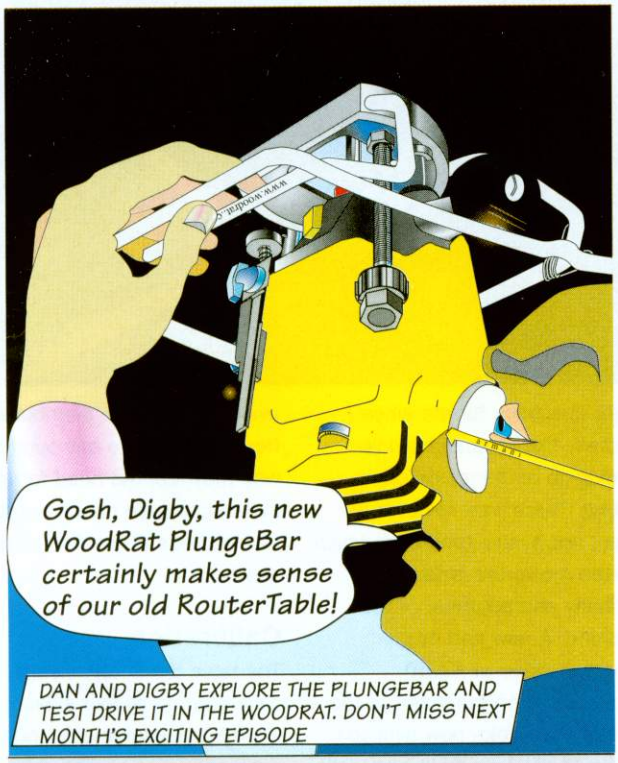


Dan squeezes the two handles together with one hand to lift the router. No more pushing up with two hands while holding the router table down on the floor with the chin for him.

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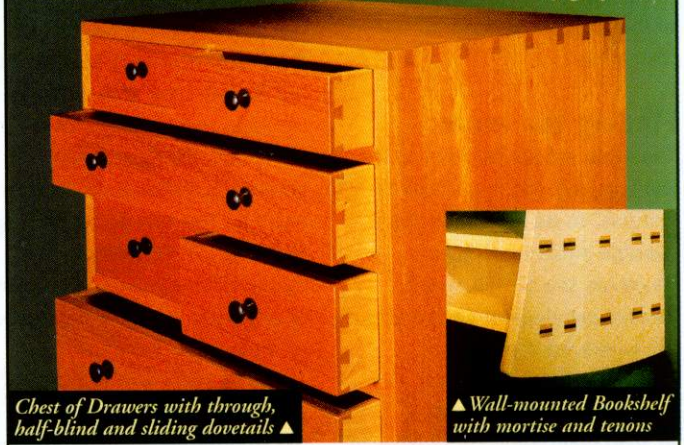

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LEIGH Joining Tradition With Today

# Rout-R-Slide table

**The older you get the less you know.....so it seemed to Mike Collins when he looked at this apparently simple tool made in Canada and marketed here by Everglades International**

My very first impression when confronted with this tool was that it was 'quality'. It is obviously well made, beautifully finished, robust, solid and attractive. The stand is in solid ash and is crying out to be either 'shelved out' or 'boxed in' to maximise its potential. Other parts, such as the main fence, are made in gold-finished anodised aluminium and the top of the table is finished in Melamine.

## Finding the room

The table stands 845mm to the working top and is sufficiently compact to be housed in the average small workshop. Obviously the overall space needed will depend on the size of the work undertaken.

## Working principle

As with most dedicated tables of this type the router is mounted below the surface (in this case on a 1/4in. (6mm) Tufnol mounting plate) and the cutter sits in the centre of the adjustable wooden sub-fences. These run in 'T' slots, which is very useful when you want zero clearance around the cutter. The makers claim that any router can be fitted to the table but it seemed to me that the larger ones would be better suited.

## Potential

Normal cutting can be carried out passing the timber across the cutter in a fixed position but the Rout-R-Slide also offers a movable router facility on a push/pull sliding carriage covering a distance of 340mm for use with the workpiece cramped to the fence. Additionally the router can be locked in position at any point along this distance of travel.

This is done with a sturdy and very efficient cam-action lever on the front of the machine. Having no literature to consult was a major drawback for me since I normally like to spend awhile reading-up on things before testing. There was however a video, not a very good one, which alerted me to the amazing flexibility and potential of the machine. A new and much improved video at £7.50 (redeemable on purchase of the tool) is, I am told, now available.

Personally, I would like at least a day's tuition along the lines of that offered to buyers of the Shopsmith system to familiarise myself with the Rout-R-Slide because working it all out for myself would take a very long time indeed. This tuition is also available from the distributors, free of charge, to any purchaser who may feel the need for more instruction (see phone number and address at the end of the article).

## Calibration

The table top is very clearly calibrated on all four sides in Imperial measurement, and the back edge also carries provision for setting the fence in degrees, to assist with the cutting of dovetails. Further information in the form of a chart to give settings for the cutting of dovetail pins in relation to their tails comes with the package.

Stand is in solid ash

Quick and simple stop facility has fine adjustment for finite accuracy

Setting the main fence is not only quick and easy but extremely flexible. It can be worked at almost any angle on the horizontal plane of the table and in addition can be moved in the vertical plane to facilitate cutting compound angles. It's hard to imagine any position it won't set at.

## Applications

Box joints, dovetails of any size or angle, are all grist to the mill, along with sliding dovetails, stopped dados and all the applications we dream of. When box jointing, the fit of the fingers can be altered simply by adjusting the fence right or left to make things tighter or looser. For the most part, setting up for all these joints is simple, but not very obvious, and it's worth spending a little time working things out. Predictably it's really a question of stops and angles and once a degree of familiarity with the machine is achieved this comes easily.

It's nice to realise that relatively simple cuts such as trimming end-grain to a razor edge are also easily achieved without a lot of fiddling. Mortise and tenon joints, the very heart of basic woodworking, are another simple application and biscuit jointing and chamfering are just a matter of setting up accurately. In fact all the setting up with this tool is deceptively easy and its functions are designed mainly for repetition cuts.

## Conclusions

This is basically a very simple tool which benefits from real flexibility. It's not a dovetail jig, although it will act as one, and it's not simply a router table. It will compare very favourably with both the Leigh Dovetail Jig and the Woodrat.

## The downside

The table top very soon becomes clogged with swarf which is a nuisance. My main complaint is having to grope about under the table to turn off the router. Anything at this price should carry a safety switch operated by the knee or upper body, but overall I found it a really useful and fascinating tool to use. It has been assiduously thought out and very well made. To say it's expensive would be unfair in the light of its quality but an on/off switch close to hand would have been the icing on the cake.

## For further reference

**Price: £425 including VAT**

**Available from:**
**Everglades International Ltd**
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**Cheddar, Somerset.**
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**Movable router facility on a push/pull sliding carriage covering a distance of 340mm**

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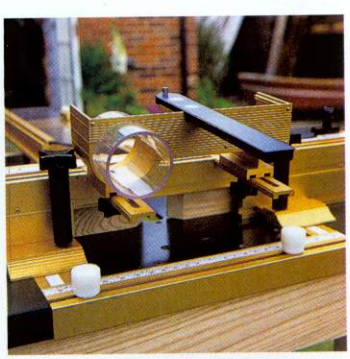


**Rear view of fence showing dust extraction facility and calibrated adjustment**

# Clock case
## in cherry

**John Todd undertakes a traditional clock case made in cherry to house an old, but valuable, eight day mechanical movement**

This is a reasonably straightforward woodworking project. The timber I used was obtained from a local cabinet maker, so perhaps I was lucky, but cherry is fairly widely available, and other hardwoods would do equally well. First of all the inside measurements of the existing case must be noted and then you can start marking out the timber for the new case. The two sides and the front are the first and the most important. Noting the measurements taken before, mark out and cut to size the pieces to which the movement will be secured.

In this case the front and the sides were half- lap jointed, but first the position of the movement needs to be ascertained. In the original case the face of the clock was brass so it was quite thin. In order to get as near as possible to this, the rear of the front workpiece will need to be relieved.

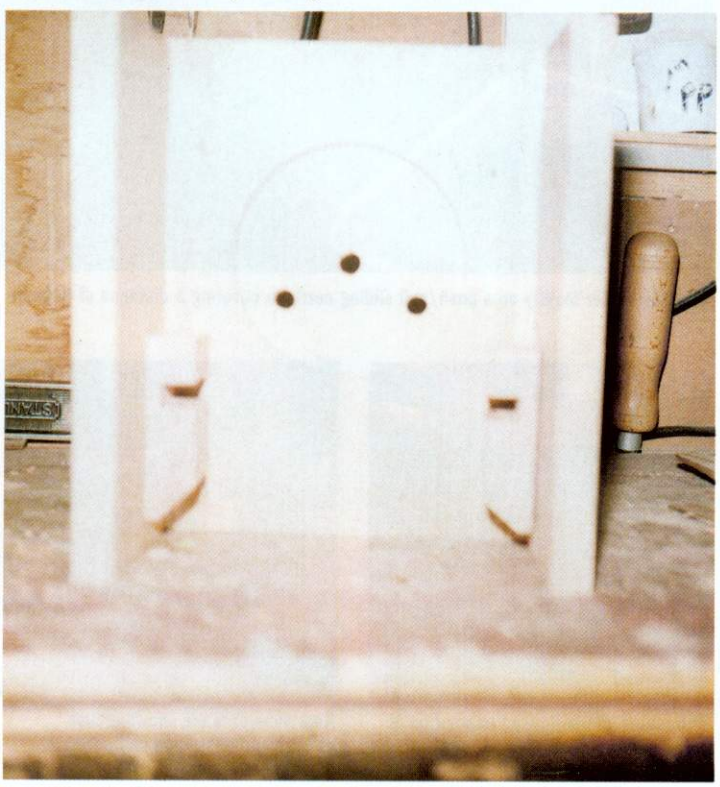
### Modifying

Depending on the movement you buy, note where the material needs to be removed. This can be achieved by one of two methods. One is to drill with a Forstner bit or other type of drill the area to be removed. The remaining waste can be removed with a chisel and hand router. The simpler method, if you have access to a lathe, is to remove it by turning. Secure the front workpiece to a plywood faceplate with either glue from a glue gun or double-sided sticky tape and turn a recess to suit. Drill a hole in the centre to take the pivot for the hands and also the two holes for winding the clock and the chimes.

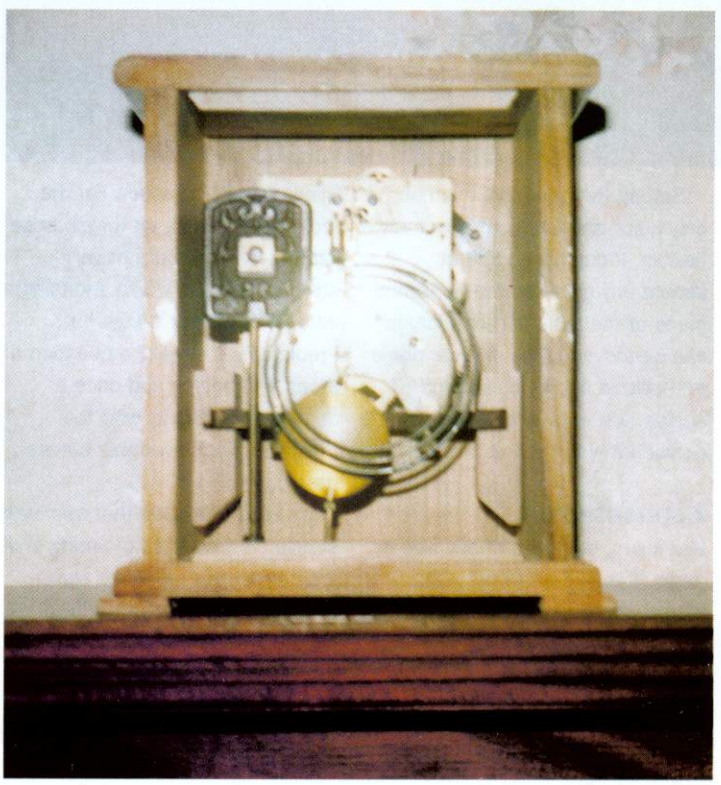
### Construction

Once you are sure the movement fits and works correctly, remove it and proceed with the basic construction. Plane a rebate the length of the sides to suit the front of the case and glue and cramp carefully checking for

View from the back showing mountings



View from the back showing movement in position.



Finished clockcase with door open

squareness. You now have the important part complete and you now need to make the mountings for the movement. Take the measurements from the old case and glue the new ones in position. Fit the movement once more and check the position of the key holes. Leave the clock working for a while to see if there are any snags; this is quite important!

## The top and the base

The overhang at the front of both the top and base needs to be the thickness of the door frame plus 10mm and the overhang at the sides needs to be 10mm in order for a bead or radius to be formed. The base can be screwed and glued to the carcase, but the top needs to be dowelled and glued.

The door is of mortise and tenon construction and is made to the exact size of the outside of the carcase yet fitting between the top and bottom overhang and is rebated to house the glass.

Cut the two stiles 25mm longer than the finished length. Leaving 12mm waste at one end mark the lengths and square all round.

## Dry assembly

Mark the top and bottom rails. These plus the two stiles need to be the exact width of the case plus the tenons. The rebate for the glass is best planed straight through and the ends filled later. Assemble the door frame dry and mark the extent of the radius or bead on the face of the door. The top and bottom rails can be planed straight through. The stiles can be spokeshaved. Using your router both the glass rebate and the bead or radius can be formed when the door frame is finally glued.

## Gluing up

Glue and cramp the door frame and when it fits correctly, clean up and sand. Hinge with 38mm brass hinges. When the door closes easily and fits well remove and give it three coats of polyurethane varnish lightly de-nibbing between coats. Clean the glass well before fitting and secure it with 5mm square section, mitred at the corners. Fix this with super glue to avoid using pins. Refit the door.

To keep the movement clean a loose door is fitted at the back and is made of 6mm timber. This fits against two 5mm square strips, one at the top and one at the bottom. The door is held in position by two brass turn buttons as used in picture framing. Four rectangular feet are needed 30mm square x 8mm. A slight taper on all sides will improve the appearance, glue in position and complete the varnishing. A brass chapter ring completes the face. The inside diameter must be clear of the two key holes. The best way to secure it to the case is with strips of double sided tape. There are various types of door catch available to keep the door closed. A small ball catch or a jewellery case clasp are two idea. A small brass knob on the door completes the project.

## Materials

- 1 pair 38mm brass hinges
- Brass screws
- Brass knob
- Door catch
- Glass to suit door frame
- Super glue
- Polyurethane varnish
- Chapter ring
- Hands if required

## Tools required

- Smoothing plane
- Tenon saw
- Try square
- Rule
- Marking gauge
- Chisels 19mm and 6mm
- Small sash cramps
- Hand or electric drill to suit dowels

**Optional tools**

- Mortise gauge
- Drill stand
- Router

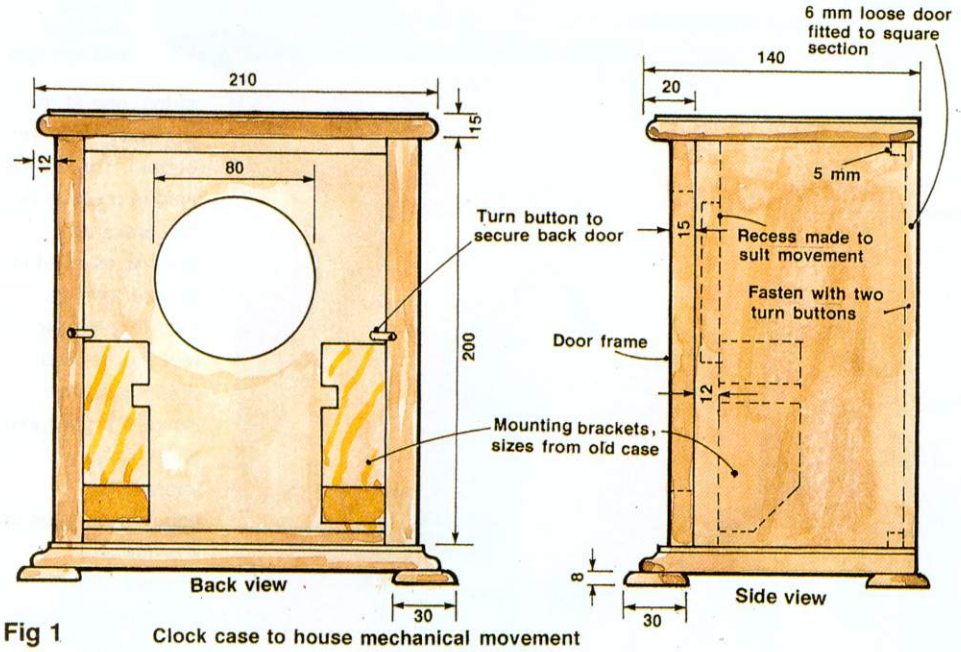



Fig 1 Clock case to house mechanical movement

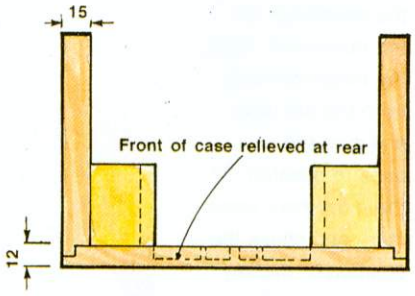
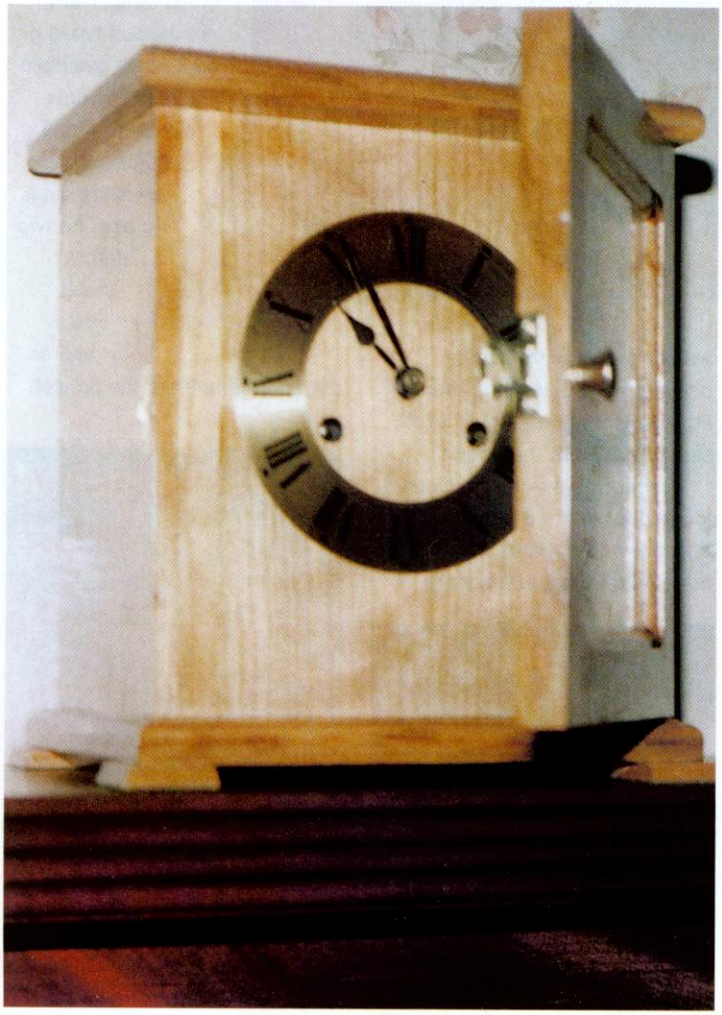



Fig 2 Top view of carcase
Base and top not shown



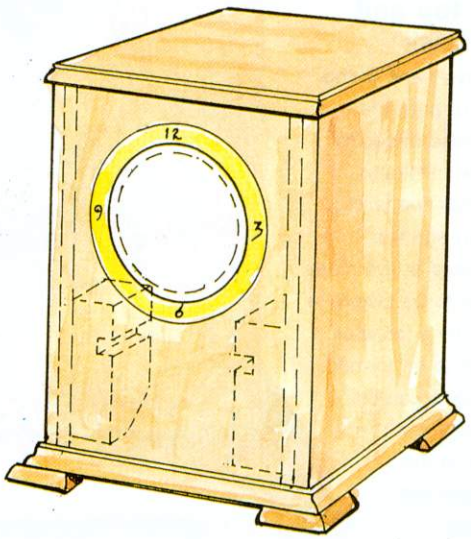



Fig 3 View showing case without door

# Cutting List

Sizes are for the case described. Sizes for other clocks may vary.

Finished sizes in millimetres

| | No | L | W | T |
|---|---|---|---|---|
| Sides | 2off | 205 | 125 | 15 |
| Front | 1off | 205 | 180 | 15 |
| Top | 1off | 210 | 140 | 15 |
| Base | 1off | 210 | 140 | 15 |
| Stiles | 2off | 205 | 30 | 15 |
| Rails | 2off | 150 | 30 | 15 |
| Rear door | 1off | 205 | 150 | 6 |
| Feet | 4off | 30 | 30 | 8 |

Length of 5mm square section

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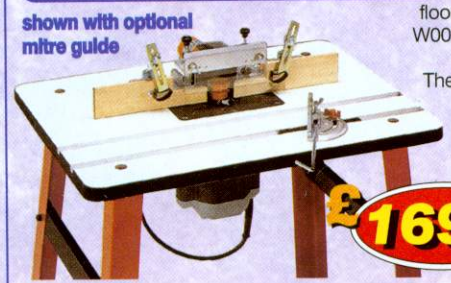

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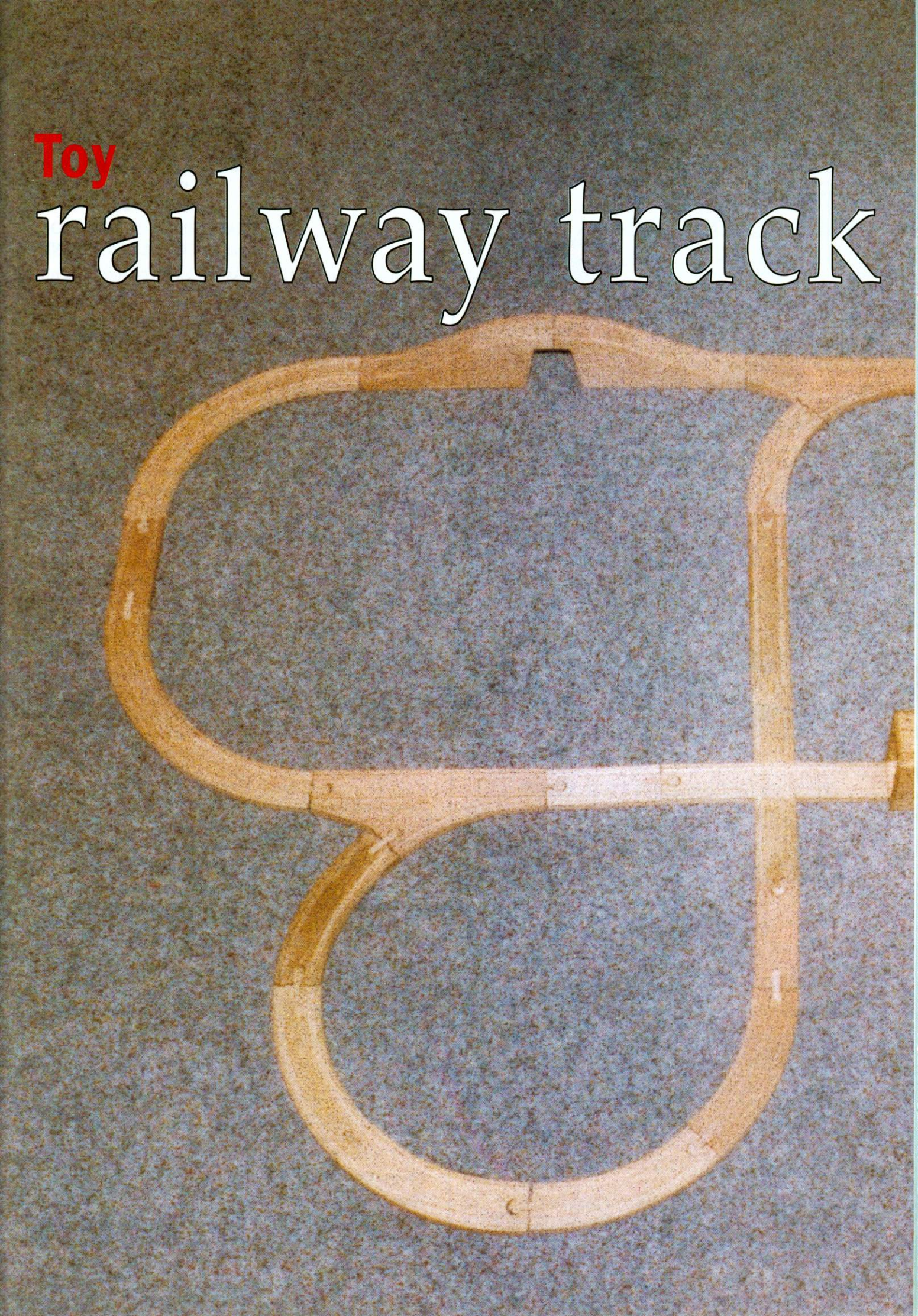
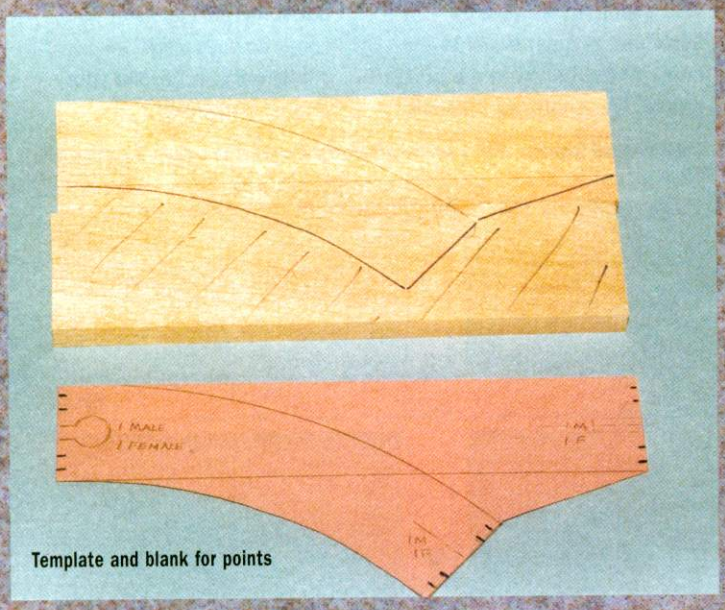
# Toy railway track

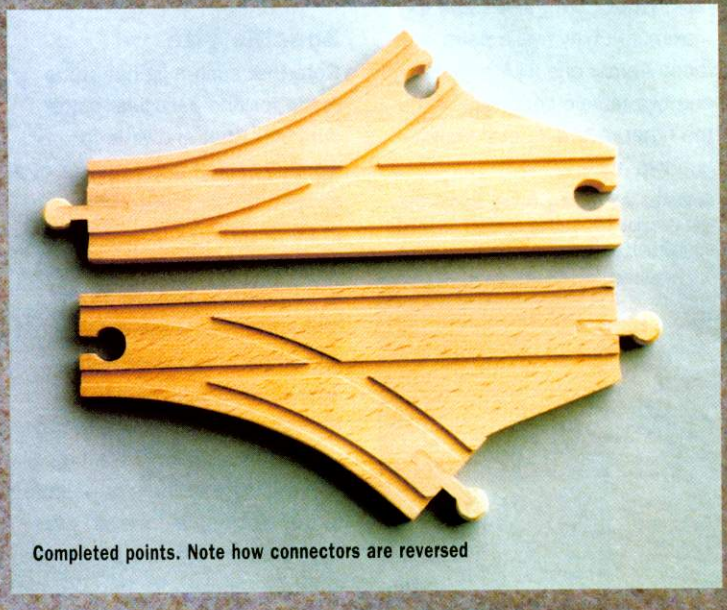


# (part 2)

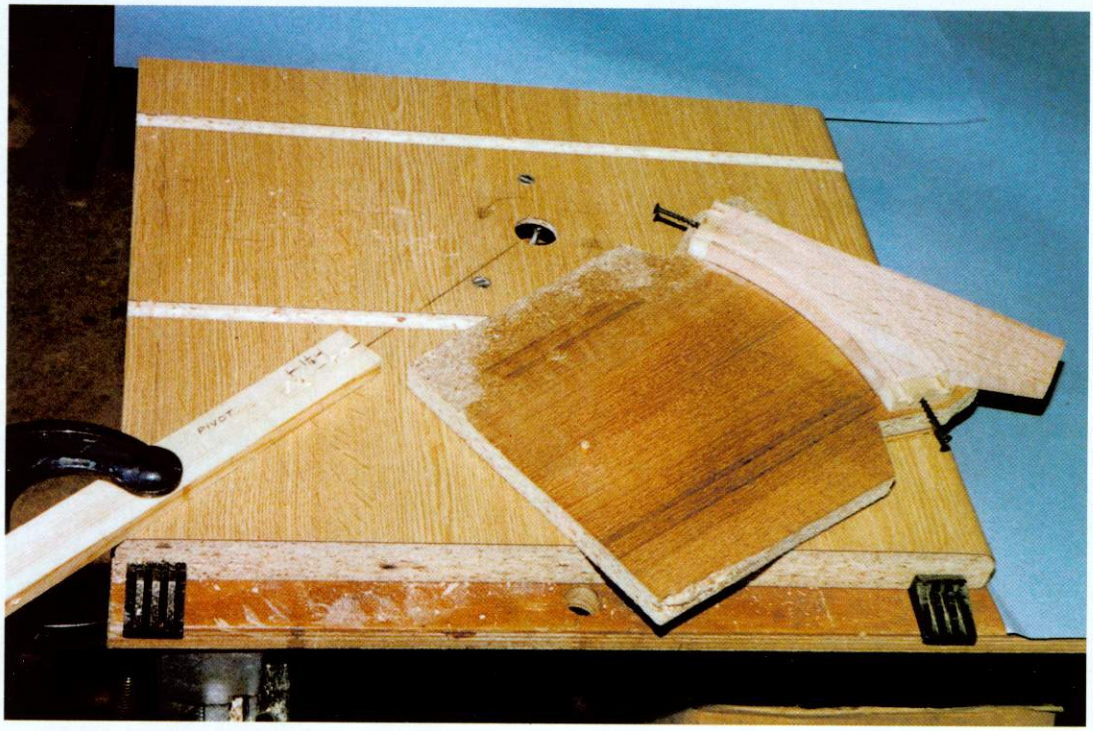
**Here Jack Marsh concludes his delightful project for the youngsters**




Template and blank for points



Completed points. Note how connectors are reversed



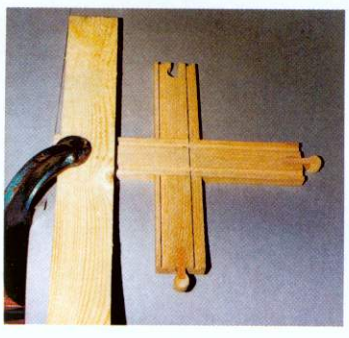
**Points being grooved using same jig**

Having made a good start in the previous issue let's now try a few branch lines.

Interest and variety can be introduced to the track layout by the addition of a few 'specials'.

Points, or switching rails enable spurs or loops to be taken off and returned to the main track. They are, in effect, a straight and a curved rail combined together and are easily made with the jig already described. As with the curved rails, groove both sides and for maximum utility make pairs of these items, one with a male and two female couplings and the other reversed, one female and two male.

**Continue the track grooved across the intersection by routing against an offset straightedge**



A crossing rail can be made by cross halving two straight rails together. After joining, the track grooves will need to be cut across the intersection by routing against the straightedge. The halving joint itself can be cut using router and straightedge with the cutter projecting half the rails' thickness: back cut the exit first to guard against breakout. The photographs shows the joint about to be cut using a general purpose straight line jig: a useful device in situations demanding precision cutting e.g. tenon shoulders.

## Specific size

Note that such a jig has to be made for one particular cutter diameter (that shown is for 13mm (1/2in.) and consists of a straight timber stock about 250mm (10in.) x 50mm (2in.) x 19mm (3/4in.), with a piece of 4mm Perspex screwed to its underside. Using the selected bit and with the router base tight against the stock, plunge through the Perspex and rout a slot about 180mm (7in.) long. In use the edge of the slot nearest to the stock is laid exactly over the proposed cut and the stock is firmly cramped to the work. Plunge and make the cut. Great accuracy is possible with this jig: it is quite easy to split a pencil line.

## The bridge

This can also be used to give access to an elevated section of track (Fig. 4). The bridge pieces are marked from a template then sawn out and shaped with spokeshave or sanding drum. The problem of routing the track grooves across the concave profile can be solved by making a saddle through which the cutter projects 3mm (1/8in.). This saddle must have a thickness at least equal to the depth of the hollow in the bridge profile. The photograph shows how the saddle can be held whilst being shaped (its profile is not critical), after which it can be lowered carefully down over the revolving cutter and cramped to the table. Also shown are the rail grooves being worked off the straight fence.

## Support blocks

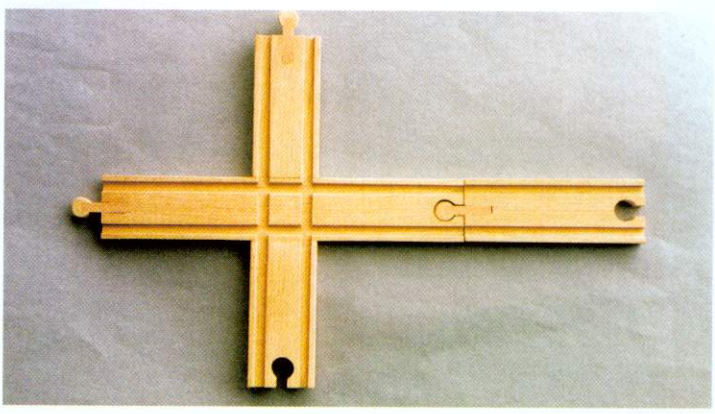
These for the elevated track should be about 25mm (1in.) thick and in use are positioned under the rail joints. They are best made with a locating slot in their upper surfaces which should be an easy fit for the rail width. The slot can be routed by cramping several blocks together and treating them as one (Fig. 5).

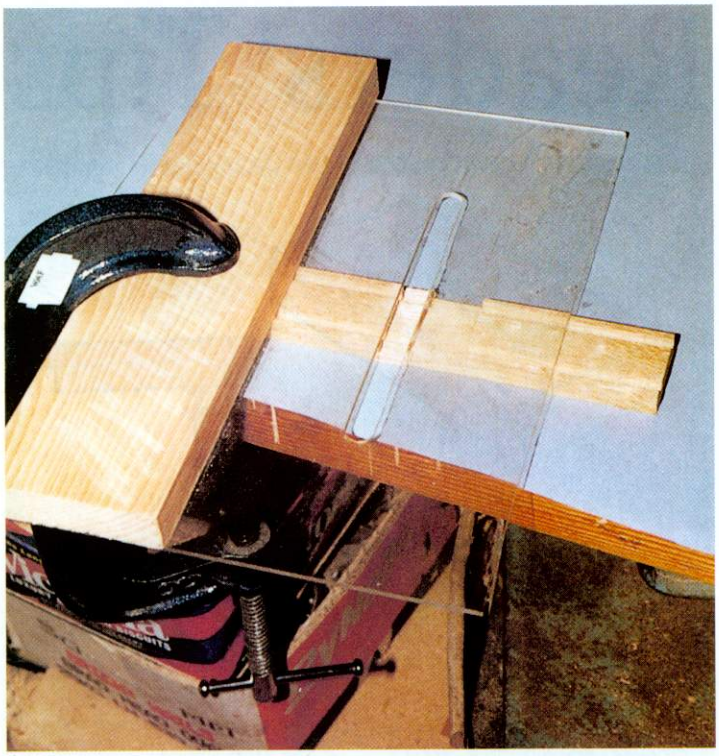
A tunnel has proven very popular with my grandson and is easily made by gluing two side piece to the edges of a straight rail and adding a roof (Fig. 6). You may wish to increase the width by adding spacers to give small hands an easier access to the interior so chamfer all the edges.

## Further orders

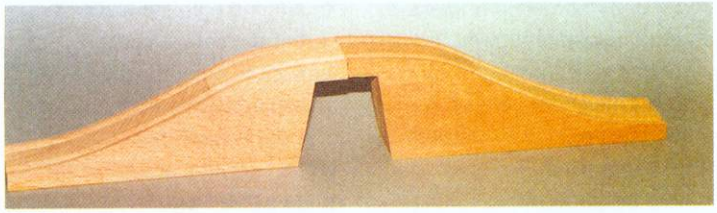
Be prepared for supplementary requests for half and even quarter length straight rails. Logic may tell you that these should not be necessary to achieve layouts that always join up, but when young track layers get into their stride logic does not come into it!. They can come up with track configurations beyond your wildest imagining

**A crossing rail together with a half-length straight needed to ensure the track will link up**

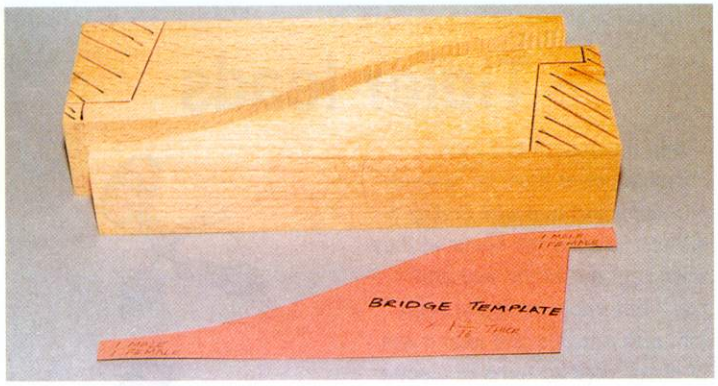




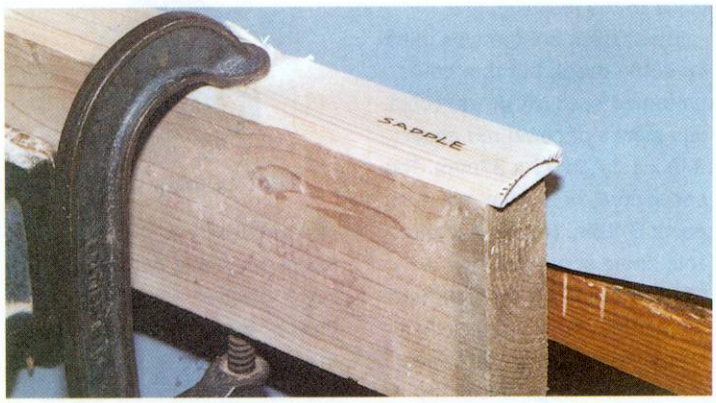
Cutting the halving joint. A plain batten would have served as a fence, but this jig saves time



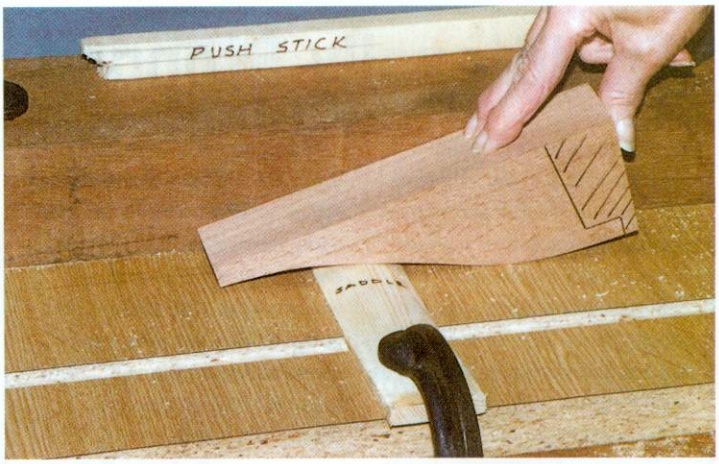
The bridge awaiting connector



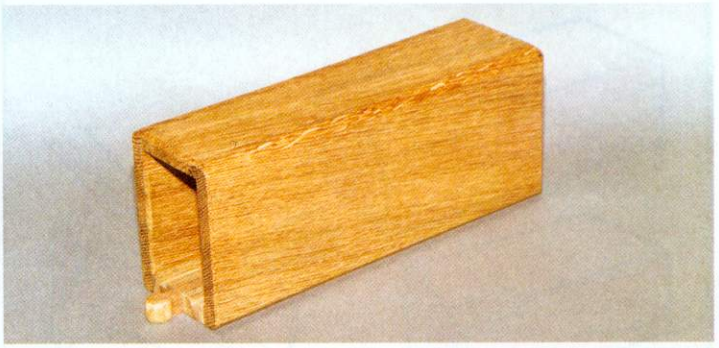

Bridge template and parts sawn out




An easy way to hold the saddle while shaping it




Grooving the bridge pieces



Completed tunnel

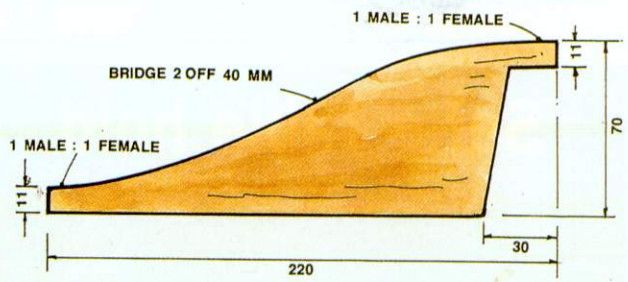
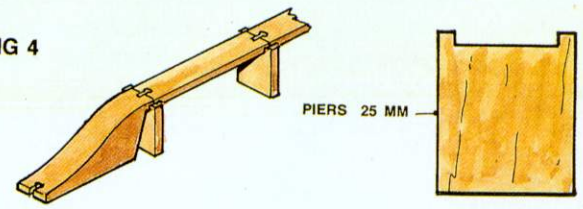



FIG 4



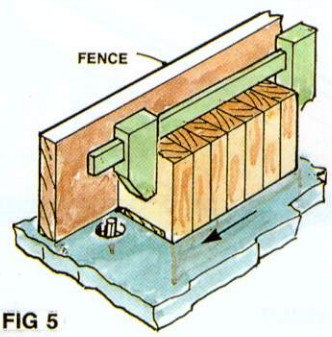




FIG 5

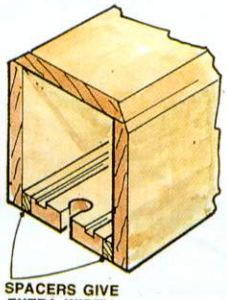



FIG 6

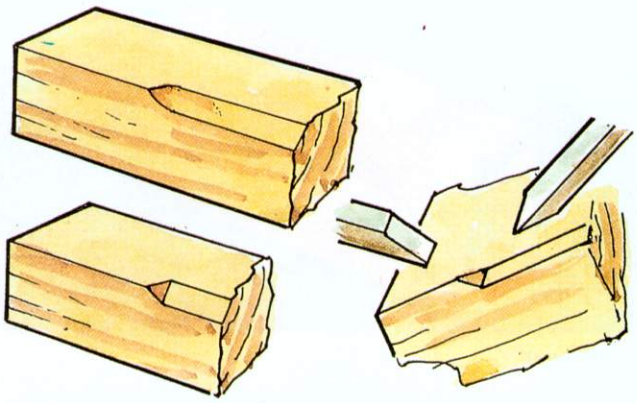
# Readers' Tips

## Traditionally Stopped

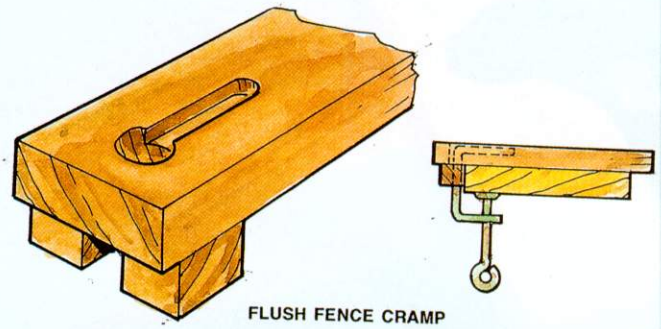
When you make a stopped chamfer with a router, the ends are rounded. This is acceptable and even attractive on modern furniture, but the oldtime cabinetmaker did not have an electric router and he finished his chisel-cut chamfer with angled ends.

Rounded ends on reproduction furniture would not give an authentic appearance. I make the stopped chamfers on reproduction furniture I produce using the router, then trim the ends to the traditional shape with a chisel. I cut the end at about 45 degrees with the chisel having its flat side down, then trim it bevel-down to remove the waste.

***S. Jones, Swindon.***



TRADITIONALLY STOPPED



FLUSH FENCE CRAMP

## Flush fence cramp

A strip of wood across is the usual way of providing an auxiliary fence while routing grooves. Any available piece of wood and cramp will usually suffice, but I found it useful to make a standard guide, which is held with a fretwork cramp. These basic strip metal cramps are sold by fretwork firms for holding the fret table to a bench for hand sawing. They have the advantage for use with a router that you can arrange for one to do its job without projecting above the guide strip.

Make a hole large enough to admit the cramp and from it rout a groove just deep enough to bring the top of the cramp below the surface. You can put blocks under the guide to hold it square to the edge of the work.

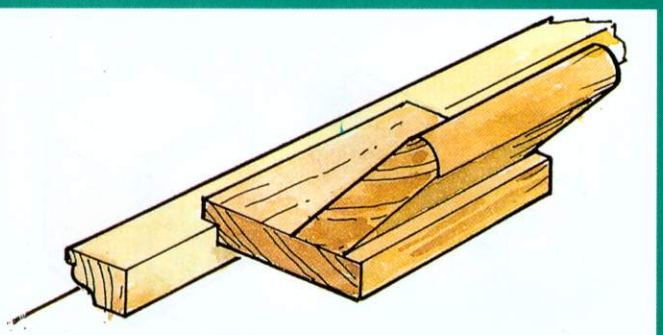
***L. Samson, Bath.***

## Safer table hold

A friend of mine trimmed his finger nails unintentionally while pushing a narrow piece of wood past the cutter in his router table. It could have been much worse. To prevent this happening to me I made this holding block to press in and down, while keeping my hand out of the way.

The base is a rabbeted piece of wood that can be put over work of any reasonable thickness. The handle slopes away and is glued and screwed to it from below. Sizes are not critical, but a base 6 x 4 x 3/4in. (150 x 100 x 18mm) and a handle 6 x 3 x 1in. (150 x 75 x 25mm) would be suitable.

***R. W. Savage, Peterborough.***



SAFER TABLE HOLD

## Tidier leads

I keep my routers and other portable power tools on shelves in a cupboard and was finding it difficult to stow the leads so they were kept out of the way and tidy. I have now equipped each tool with a toggle and loop made of shock cord so turns of electric cable can be gathered together close to the machine.

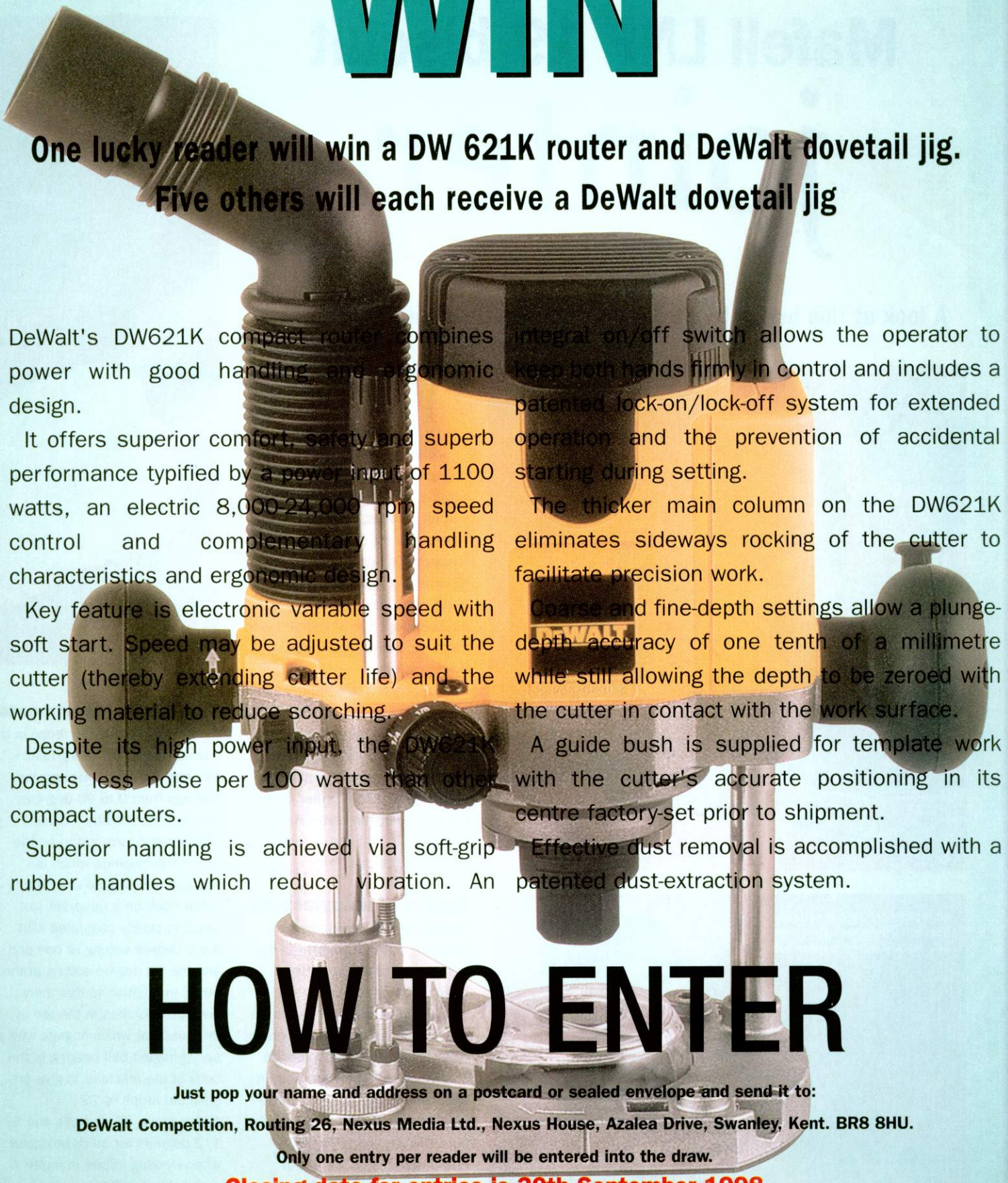
The toggles are the type used on duffle coats, but they could be turned specially or you could use pieces of dowel rod about 3/8 x 1 1/2in. (9 x 37mm). The shock cord, or bungee, could be about 3/16in. (4mm) diameter. Thin string or stout thread is used for tying and binding. Seize the end of the shock cord tightly round the groove in the toggle, then allow enough to suit the quantity of cable and bend a loop of a size to spring over the toggle. Lash this onto the cable close to where it joins the router. Coils of the cable can then be made up so they rest on top of the machine when it is stored

***P. H. Robbins, Southampton.***

TIDY LEADS

# WIN

**One lucky reader will win a DW 621K router and DeWalt dovetail jig. Five others will each receive a DeWalt dovetail jig**



DeWalt's DW621K compact router combines power with good handling and ergonomic design.

It offers superior comfort, safety and superb performance typified by a power input of 1100 watts, an electric 8,000-24,000 rpm speed control and complementary handling characteristics and ergonomic design.

Key feature is electronic variable speed with soft start. Speed may be adjusted to suit the cutter (thereby extending cutter life) and the working material to reduce scorching.

Despite its high power input, the DW621K boasts less noise per 100 watts than other compact routers.

Superior handling is achieved via soft-grip rubber handles which reduce vibration. An integral on/off switch allows the operator to keep both hands firmly in control and includes a patented lock-on/lock-off system for extended operation and the prevention of accidental starting during setting.

The thicker main column on the DW621K eliminates sideways rocking of the cutter to facilitate precision work.

Coarse and fine-depth settings allow a plunge-depth accuracy of one tenth of a millimetre while still allowing the depth to be zeroed with the cutter in contact with the work surface.

A guide bush is supplied for template work with the cutter's accurate positioning in its centre factory-set prior to shipment.

Effective dust removal is accomplished with a patented dust-extraction system.

# HOW TO ENTER

**Just pop your name and address on a postcard or sealed envelope and send it to:**

**DeWalt Competition, Routing 26, Nexus Media Ltd., Nexus House, Azalea Drive, Swanley, Kent. BR8 8HU.**

**Only one entry per reader will be entered into the draw.**

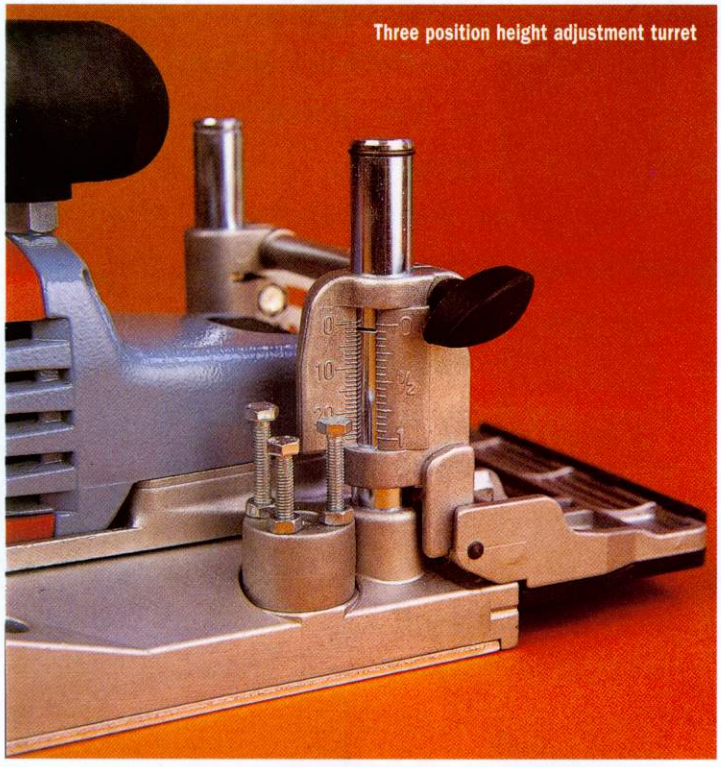
**Closing date for entries is 30th September 1998**

**The first correct entry pulled from the hat on that day will be judged to be the winner of the DW 621K router and dovetial jig. The next five entries pulled from the hat will each receive a DeWalt dovetail jig.**

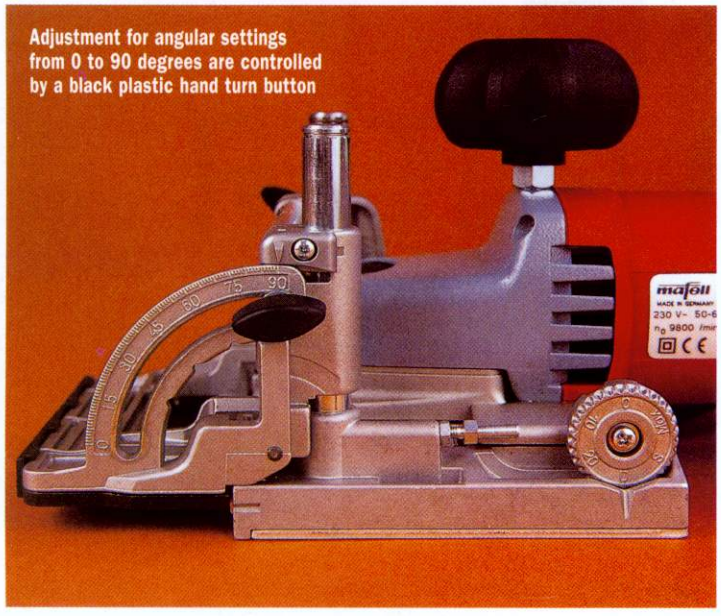
**The winner will be notified by post after the draw and the name will be published in a future edition of the magazine.**

# Mafell LNF 19 biscuit jointer

## A look at this useful tool for the home workshop with Mike Collins



Three position height adjustment turret




Adjustment for angular settings from 0 to 90 degrees are controlled by a black plastic hand turn button

The biscuit jointer, or jointer/groover as this one is called, is an exceptionally useful tool for those engaged in edge jointing boards, making carcases of all sorts and cutting grooves, trenches and rebates for for panels etc. In this respect it is superior to all forms of dowelling jigs since it is so much more flexible in its applications. It is of course much more expensive than most dowelling jigs.

In essence it is a hand held circular saw used in conjunction with several height, depth and angle adjustments and used often with a plunging action similar to that of a router. The blade is tungsten carbide tipped and likely to last a very long time under normal use.

### Quality of manufacture

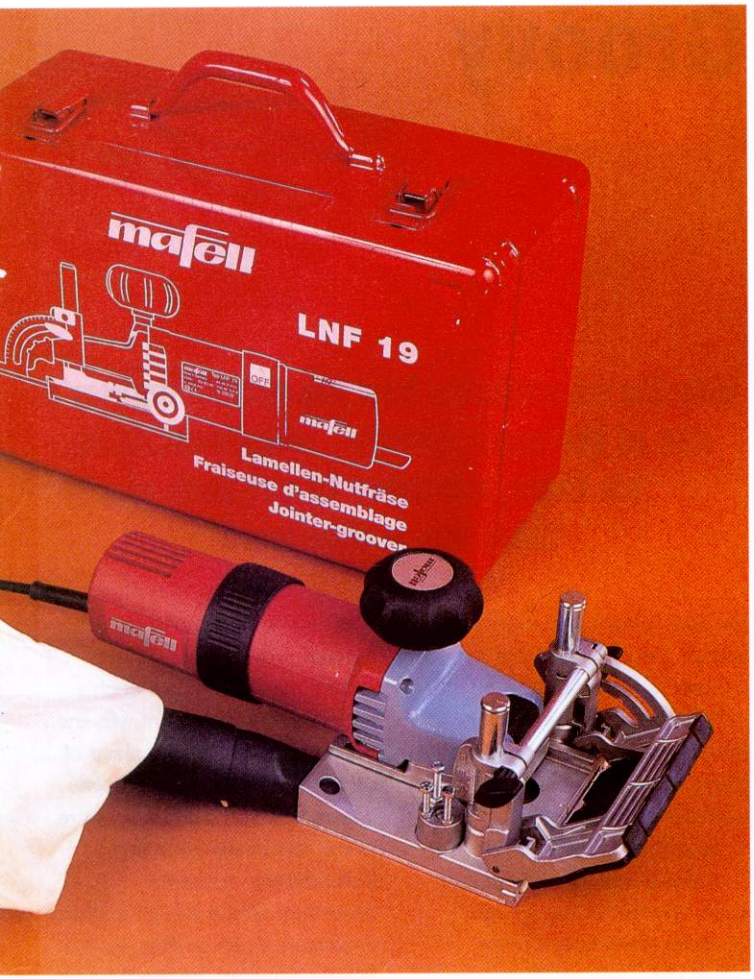
The Mafell LNF 19 is made in Germany and it's plain from the first glance that it is of high quality both in materials and finish. The gear case head is steel with a textured hammered paint finish while the soleplate and fence assembly are both in anodised aluminium. The fence rides on two bright steel upright bars and the motor casing is heavy red plastic. It's worth looking through the instruction leaflet to familiarise yourself with the tool before using it, as well as taking on board all the necessary safety hints and procedures.

### Controls & adjustments

As with any jointer the fence is a crucial part of the design and this one will adjust for angular settings from 0 to 90 degrees. This is controlled by a black plastic hand turn button on the left of the machine which is positive and easy to use. The fence rides on a quadrant slot which is clearly calibrated with the 0 degree setting at one end and the 90 degree setting at the other. In addition to this there are three notches in the arc of the quadrant which engage with a spring-loaded ball bearing in the body of the machine to give pre-selected stops of 22 1/2degrees, 45 degrees and 67 1/2 degrees for quick selection when working mitres in multi-sided shapes. This adjustment is positive, chunky and nicely engineered.

### The height adjustment

This operation of this is by a




similar turn button on the right-hand side of the tool, and, whilst this can be set to any height within the length of the upright metal bars, there is a small ajustable turret stop at the bottom of the travel with three pre-set adjustments on it. These factory-set adjustments are at 10, 19, and 25mm (3/8, 3/4, and 1in.) to facilitate common man-made board thicknesses.

## Depth of cut

The maximum depth of cut with the tool is 19mm (3/4in.) and this is set with a threaded pin adjusted with a locking screw on the left-hand side of the machine. The length of the pin is altered to suit the depth required and the end of it engages in holes of various depth, selected in the circumference of a small knurled handwheel at the back as the body of the tool as it is pushed forward for the cut. This is a very simple, accurate and effective method and really comes into play for the cutting of grooves and trenches etc,.

## Calibrations

In all cases these are cast in the metal of the tool and thereby won't suffer from being rubbed off as often happens with those simply painted or worse still stuck on as is often found on cheaper products.

## Dust extraction

There is a handy dust extraction system which is easy to link up to a zipped dust bag and I imagine to a vacuum outlet if needed. I used the tool only on solid timber and this produced virtually no dust (the residue might be called sawdust but it was for the most part certainly too coarse to be airborne).

## In use

It's fair to say that I didn't find the tool particularly easy to use initially, but I soon got used to it. It is held mainly by a large black knob on the top centre of the body with the left hand and switched on with a twist-switch on the body of the motor using the right hand. At least that's what happens if like me you are right-handed. It is quite heavy (see below) and by its nature rather chunky. It is also quite heavily sprung which demands a substantial push to engage the cutter into the work.

Set on the front of the soleplate are two anti-slip rubbers which help to hold things steady against the rotation of the cutter and between these is the centremark of the soleplate visible from above to locate the cut accurately. I found that with my hand over the large centre knob that view was at times restricted.

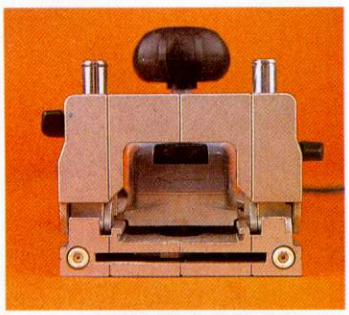
I assume these anti-slip rubbers are removed when the tool is used for grooving and trenching since they would act as an impedance to progress along the line of the cut. I could however, find no reference to this in the instruction leaflet.

The performance of the tool was superb; it gave a surgically smooth and clean cut and showed no inclination to wander. But, mating edges secured with a biscuit joint, or with dowels, or indeed with simple rubbed joints, must be first planed absolutely square or they quite simply won't fit. Nothing changes very much!

## Conclusions

Overall a very nicely made, quality product and well worth having in the workshop.

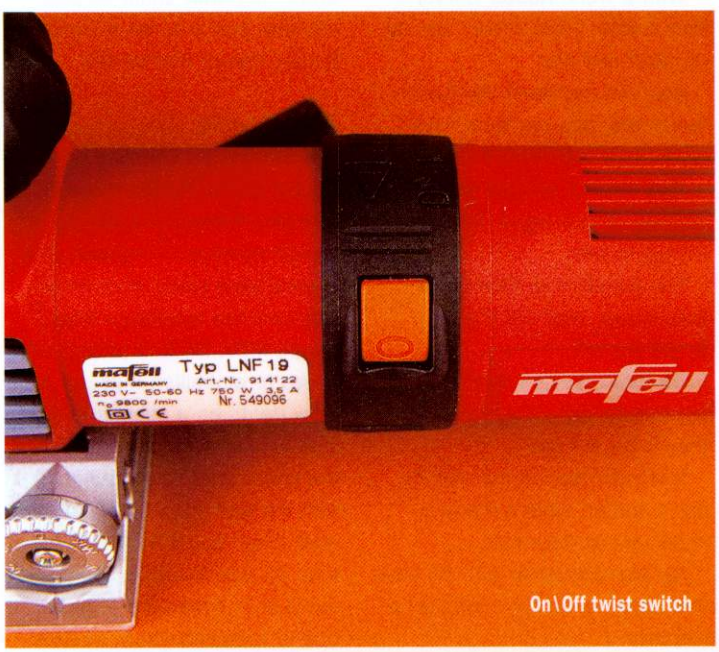
Mafell tools are obtainable from NMA Agencies, 34 Elmfield Road, Birkby, Huddersfield HD2 2XH. Tel: 01484 531446 Fax: 01484 432906



Anti-slip rubbers help steady against the rotation of the cutter

## A few facts and figures

**Cutting depth 19mm (3/4in.)**
**Angle adjustment 0-90 degrees**
**No-load speed 9800rpm**
**Hose connector diameter 35mm (1 3/8in.)**
**Operating weight 3.2kg (7lbs)**
**Voltage 230**
**Power input continuous operation 750W**
**Price £226.00 ex VAT.**




On\Off twist switch

# Groovy table

**Bob Curran explains how his granddaughter's use of the word 'groovy', when describing his table, managed to put both of them into a time warp**

She didn't realise how apt her statement was, but to me it really was clear,

If it hadn't of been for Trend and their carver, no grooves would appear in it.

With a Trend Router Carver from Santa, I now know I can do my stuff and that

now I've mastered the Carver templates, new horizons have opened for me.

This form of ancient wood crafting, is now there, for my friends to see.

The purists may look down their noses, and say it's no longer a craft.

Do they still light their workshops with candles, if so, they really are daft.

Methods used in the making don't matter, What's made is important to meis that

My granddaughter will still have this table, when I'm a long gone memory.

## Waking up

The transformation for me took place when I won a video in a magazine competition, it was entitled Carving with the Router. Having watched it several times I told my family I did not want any more socks or handkerchiefs for Christmas, they could all club together and give me a Trend Router Carver Starter Set.

## The goods

The Starter Set consists of the Router Carver Cutter, three template frames and one set of handle surround templates. The frames were made from 9mm MDF and the templates from 18mm MDF. My first project with it was to embellish a couple of draw fronts on a cabinet I was making. I was so pleased with the result I became fascinated with the tool and started to think what else I could do with it. After a bit of experimenting I worked out how to produce the Router Carver templates to reproduce my own designs. Although the written description of the procedure is rather lengthy, the actual making of the routing templates is relatively quick once the method has been grasped. It consists of three stages:

1. Draw the design out full size.
2. Make a master template for each element of the design.
3. Make the Router Carver templates.

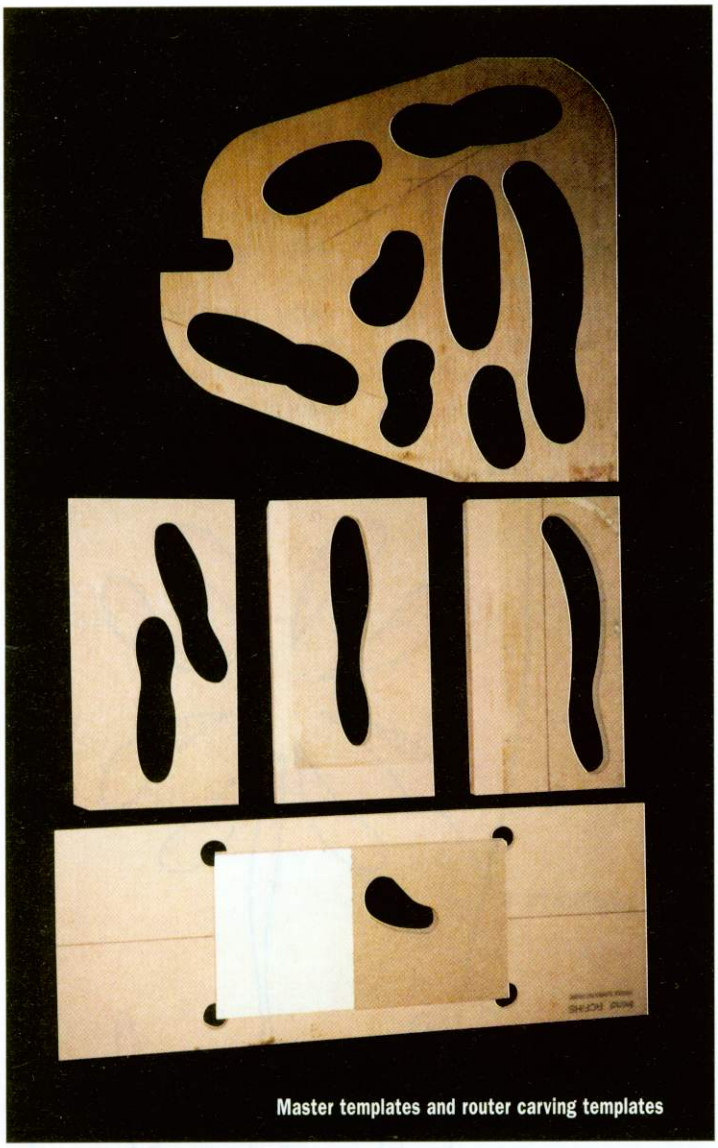
## Draw the design

The design must of course fit within the designated area of where it was to be worked; in this case on the legs and the table top. Because I was using the Trend Handle Surround Template Frame the overall width of the design did not exceed 105mm. Any length was achieved by moving the template frame laterally. Each element of the design did not exceed a maximum 15mm in width, 12mm is probably better at first. The 15mm width was about the maximum cut that can be taken comfortably with a single plunge. The length of each element did not exceed 220mm. A larger design could be produced by using the Kitchen Door Template Frame, which comes as part of the Starter Set.

I kept in my mind the fact that for every element of the design I would need a routing template. So duplicating elements in different positions and to opposite hand, is the key to getting the most out of each template. Each element was then traced onto a separate piece of paper and a reference line was drawn, this line being the centre line of the design. The line indicated the elements orientation in the design and was necessary when positioning the Master Template on the Routing Carver Template blank when forming the slots. The element drawing was then enlarged in size by 21mm all round. The enlargement was achieved by using a small compasses set at 21mm and striking very small

**General view of table showing leg carving**

**Leg blank in base frame**



Master templates and router carving templates

arcs from the original shape. With the aid of a french curve, these arcs were then joined up to form a continuous smooth line.

The 21mm dimension is arrived at by adding 12mm (half of 24mm, which is the minimum width of a routing template slot) and 9mm (the distance from the edge of my 30mm dia. router guide bush to the cutting edge of a straight sided 12mm router cutter.) (Fig. 9). If using a different diameter guide bush or cutter an adjustment to the 9mm dimension will have to be made.

## Make the master template

The master templates were made by transferring the enlarged element shapes and the reference line onto 6mm plywood using carbon paper. The centre was then cut out using a scroll saw fitted with a fine blade. Smooth sweeping curves were most important at this stage as any bumps or irregularities would be reproduced on the Carving Routing Template and thus onto the final work .

## Making the routing templates

The Routing Templates blanks were made from 18mm thick MDF they were 150 x 280mm. The rosette Router Carving Template was 150 x 150mm and was used with a make up piece 150 x 130mm. All these pieces must be accurately sized and square.

## Panel pins

Because clamps would get in the way when forming the slots, the Master Templates were panel pinned to the MDF blanks in the positions shown on the relevant drawings. The routing slots were then machined out using the guide bush and the straight sided cutter. Care was taken to ensure that a good edge was retained on the under side on the break though cut. Both edges of the slots are used when the templates are turned over to produce an opposite hand element of the design. So having drawn the design, made the master templates, made the Router Carver templates, the making of the table could now begin. It was made from the five pieces detailed in the cutting list.

The top was made up from narrower material glued together with clamps and cauls to ensure they remained flat. The grain was matched as far as possible for best effect. The top was then cut and finished to 395mm dia. The edge was finished smooth at this stage because it was used to locate the Template Frame when carving the top. The Centre piece was cut and planed to a hexagon with 22mm wide flats (Fig. 10). This was achieved by tilting the table saw to 60 degrees, cutting off the four corners and then planing the four sawn faces.

## The top, legs, and centre piece

These were all joined together by size 20 biscuits, the slots for them being, 2in. the end and 3in. the inner edge of each leg, plus of course corresponding slots in the underside of the top and every other face of the hexagonal centre piece. The slots were cut before any router carving was done. This avoided any possible damage to carved faces whilst biscuit jointing. The inner and outer edges of the legs were then cut to shape.

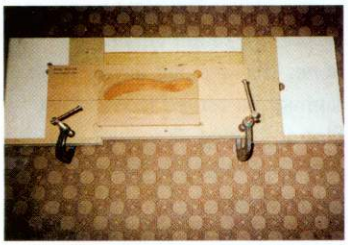
Before starting the surface carving I constructed a frame, made from various offcuts, to hold the legs whilst they were being carved. This made positioning and holding of the template frame and legs more positive, the clamping was also easier. I screwed a block to the underside of the frame base board so that when held in the vice, the whole set up was then very steady. The lateral centre line of the leg space was marked. The two elements from template 1. were cut first, making sure the lower end of

## Drawing List

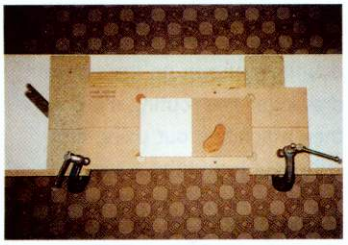
- **All drawings are shown on 5 x 5mm squares**
- **Leg Shape and Design**
- **Elements with Template Numbers.**
- **Template No. 1**
- **Template No. 2**
- **Template No. 3**
- **Table Top Design Elements with Template Numbers.**
- **Templates Nos. 5 & 6.**
- **Details of Mods. to Template Frame for Table Top Carving.**
- **Example of design element enlarged by 21mm.**
- **Master/Router Carver Template machining.**
- **Detail of Centre Piece Hexagon.**

# Cutting list

| | | | |
|---|---|---|---|
| Top (made up from narrower pieces) | 1 off | 400 x 400 x 22mm | PSE |
| Legs | 3 off | 155 x 22 x 410mm | PSE |
| Centre piece | 1 off | 44 x 38 x 240mm | |



Template frame with template No. 1. in position ready for first cut

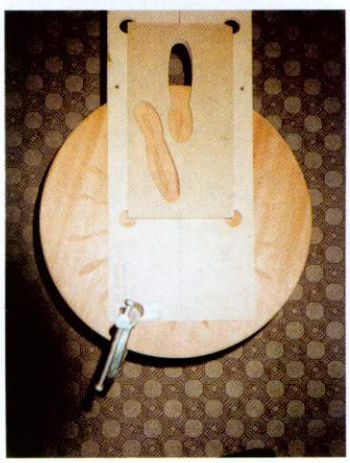


Template frame with template No. 3 in position ready for cutting rosette

the element was positioned as shown in Fig. 1. This starting position of the template frame was marked on the base frame for future reference. With the template frame still clamped in the starting position the central element of the design was cut using the lower portion of template 2. The template frame was then repositioned along the base frame so that the lower portion of this element coincided with the end of the cut that had just been made. This new position was marked on the base frame. The forth cut was then made. With template 3 together with the spacer installed in the template frame, the frame was again repositioned so that the rosette elements could be cut. This position of the template frame was also marked on the base frame. The rosette was cut by rotating template 3 through 90 degrees four times, then turning it over and repeating the four cuts. The total of twelve cuts completed the carving on one side of a leg and was achieved surprisingly quickly. The three template frame positioning marks were then scribed on the opposite side of the lateral centre line. The leg and the template frame was then turned through 180 degrees longitudinally so the uncarved face was uppermost and the twelve cuts repeated on the other side of the leg. The whole operation was then repeated on the other two legs.

Template frame with template No. 4. clamped to top

Template frame with template No. 5 in face up mode



## The design for the top

Six template position lines were lightly marked on the top 60 degrees apart. Two pieces of 25mm dia. dowel by 12mm long were screwed to the underside of the template frame in the position shown on Fig. 7.

The centre line of the template frame was then aligned with one of the positioning lines and clamped to the top. A template was then placed in the frame and the element cut. It was then rotated 180 degrees about its lateral axis which put template 5 in position and the element was cut. The template was then turned 180 degrees about its longitudinally centre line and the opposite hand element was cut. The template frame was then moved 60 degrees to the next positioning line and the three cuts repeated. This procedure was repeated six times to complete the carving of the top.

All parts were then fine sanded, generally cleaned up, and a trial assembly made. After checking that everything fitted correctly the biscuit joints and mating faces were glued.

With the table standing on a level surface the assembly was clamped using webbing

clamps around the legs and a heavy weight holding the top down.

After a good clean up, and knowing that the table would be well used, I finished it with three coats of satin polyurethane.

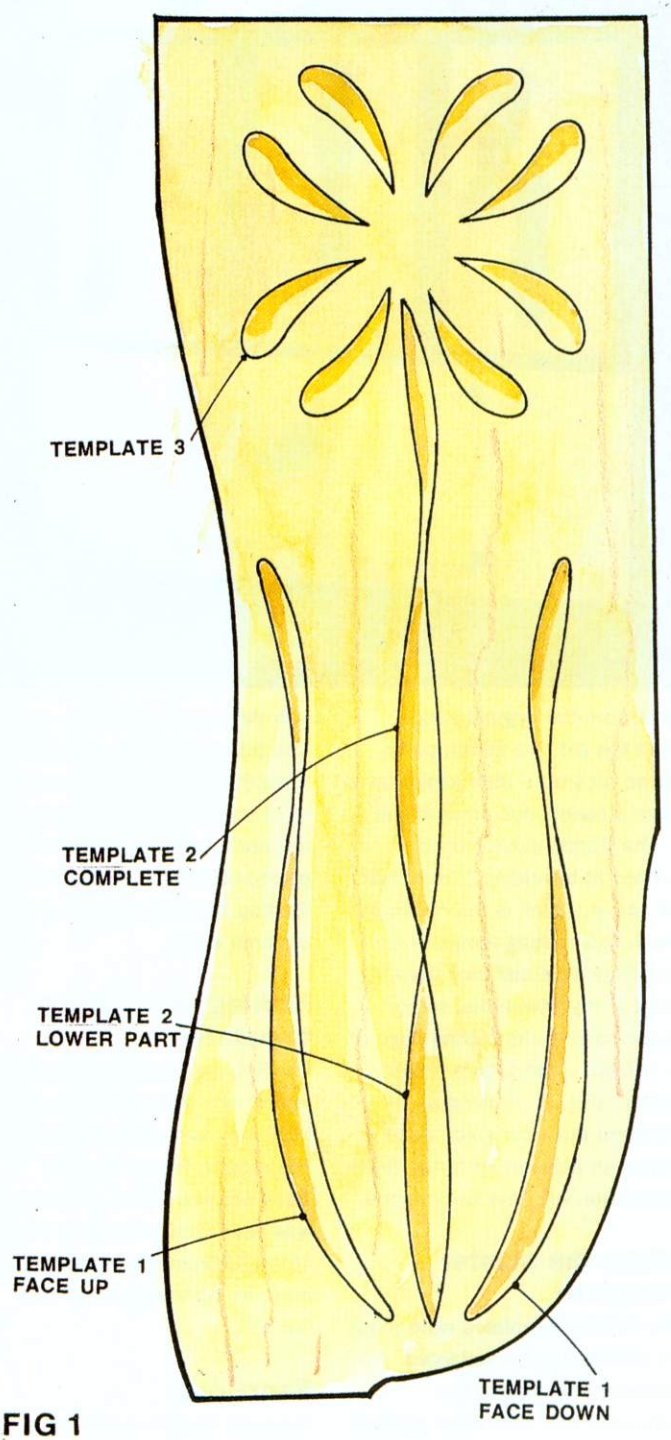



FIG 1

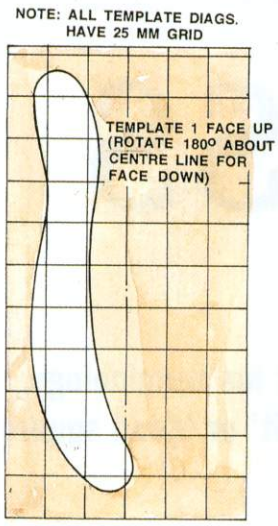



FIG 2

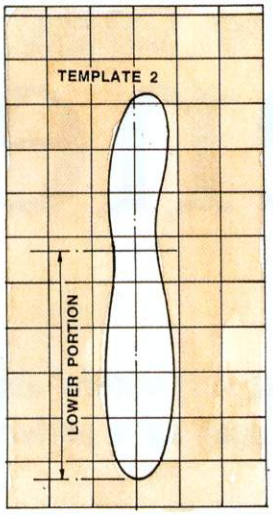
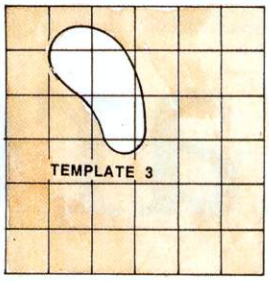



FIG 3




(ROTATE 90° FOUR TIMES, THEN TURN OVER AND REPEAT ANOTHER FOUR TIMES)

FIG 4

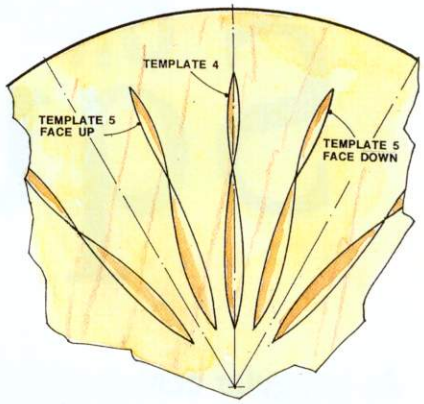
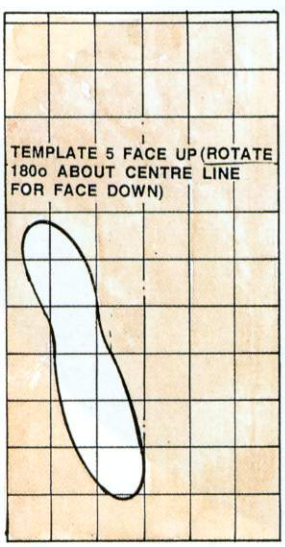



FIG 5



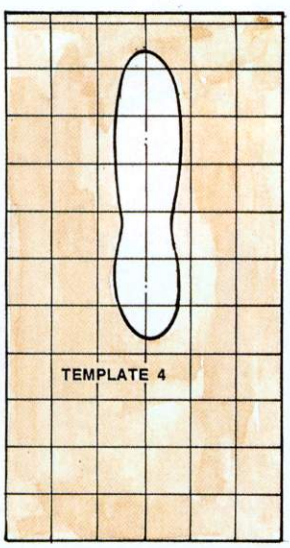




FIG 6

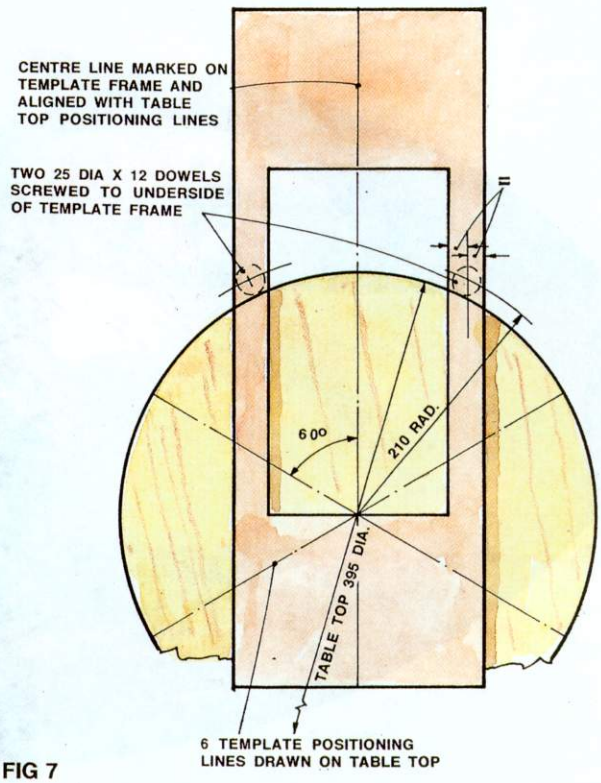
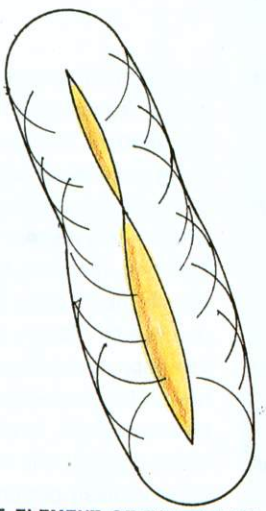



FIG 7



ONE ELEMENT OF TOP DESIGN ENLARGED BY 21MM ALL ROUND TO GIVE PROFILE OF MASTER TEMPLATE FOR ROUTING TEMPLATE 5

FIG 8

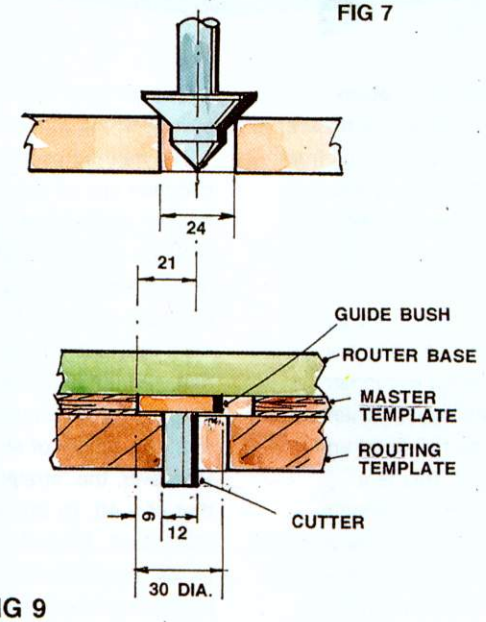
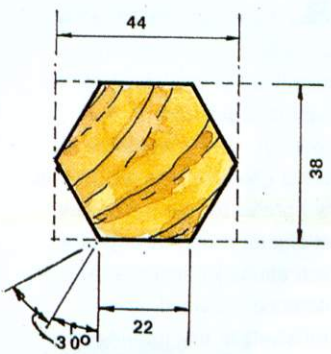



FIG 9




CROSS SECTION OF CENTRE PIECE

FIG 10

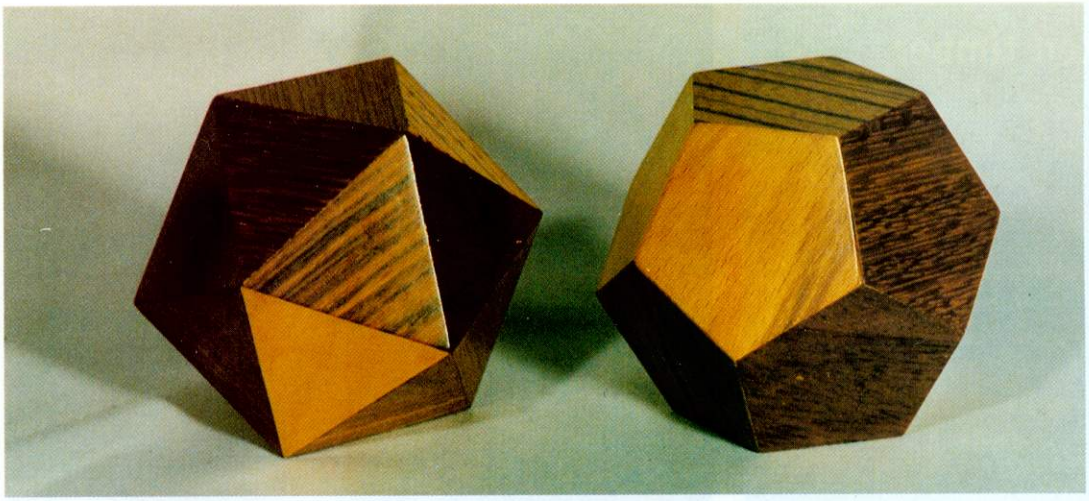
# On Squareness

**As a regular contributor, Jack Cox finds himself being very careful about his terminology. Here he explains the problems caused by expressions such as 'a perfect fit' or 'dead square'**

If you say joints must be dead square, the chances are, that they won't be - and even if they were, the detection of such a happy state would be beyond the capabilities of any piece of equipment available in the workshop - and it would be a wasted exercise anyway. This is why I prefer to use words like 'satisfactory' and 'acceptable' - which actually implies a level of 'tolerance' - a word used extensively in engineering to define limits of measurement.

For example, the problem of ending up with some piece of woodwork which is obviously not 'square' in one way or another is one which bedevils us all from time to time. I would however, contend that consigning one's trysquare to the dustbin on the grounds that the result isn't absolutely perfect may well be blaming the dog when the cat did it. By way of an experiment, I checked the square which I regularly use for metal and woodworking. This is a metalworker's combination square, made by Moore & Wright, with an 18in. blade and a stock 4in. long. I also checked the same blade with another stock of the same type, and couldn't find a thing wrong with either.

The method used was the common one of reversing the square against a straightedge, to produce double the effect of any angular error present (Fig.1(a)) - and I did it several times with each stock. In all cases, the reversed blade fell precisely (??) on the original line over the full available length of about 16in. Moreover, the 'straightedge' was that of a 4ft. by 2ft. sheet of MDF stock. This of course leads to the possibility that I am not particularly fussy, and will stand for anything. In rebuttal, I can only say that I come in for a good deal of leg-pulling among my woodworking friends with regard to my passion for accuracy (see photographs). On the other hand, where a satisfactory result is not obtained, there are two possibilities: Firstly, the square in use is a bit 'dodgy'. Whilst this can happen once to anybody, to have it happen several times is a bit unfortunate, to say the least. - which points to the second, and far more likely possibility, which is simply that something else is going wrong somewhere - which leads me to the real chicken-and-egg phenomenon:



How often does one see in print an invitation to 'check it against a straightedge'? - a statement which begs the question of where one obtains a straightedge in the first place. How does one check that an edge is straight?

By a similar reversal test perhaps, as in Fig.1(b), where any warping (in the plane of the worktop) will become apparent.

This is fine if the straightedge is sufficiently portable to carry out such a test - too bad if it happens to be one edge of a large sheet of material. The idea of 'eyeballing' along the length of the material isn't a bad one - provided that the material isn't warped in a plane at right angles to the worktop, since this serves to confuse the issue somewhat.

The best way I know is the tightly-stretched thread between two pins, as near as possible to the edge in question.

This can be useful as a guide to trimming the edge with a hand-plane, but obviously cannot be used to draw a pencil line, since any form of physical contact with the thread immediately negates the accuracy of the method. The real point I'm making here however, is simply that, if the edge isn't straight, it tends to make a nonsense of any attempt to check a trysquare on the lines of Fig.1(a). Furthermore, if the straightedge is made of wood, it might be straight today, but tomorrow is another worry - which leads me to the problems which may be thrown up by the timber itself:

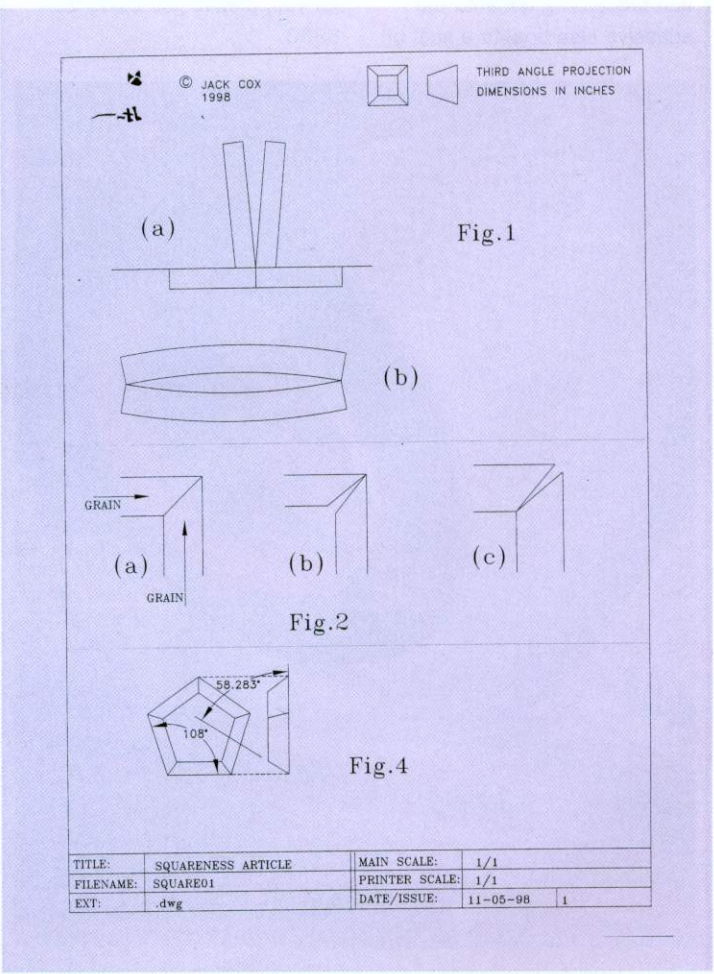
Consider a simple 45 degree mitre, comprising one corner of a square framework, as in Fig.2(a). With careful machining (I use a disc sander for the final 'few thou') one can produce an entirely acceptable result. If the timber subsequently shrinks, the joint may open on the inside (b), and if it swells, it opens on the outside (c), both effects being produced by uneven linear movement of the timber across-grain with respect to long-grain, which leads to an angular error.

If the mitre is along the length of the timber, the problems will be of a different kind. One can, I suggest, forget about any question of cutter inaccuracy. Router cutter makers will work to 'tolerances' just like anybody else, but the tolerance limits set by reputable makers will be at a level well beyond the perception of the average user. Much the same argument would apply to routers also - provided that the machine in question is not worn or damaged. The accuracy of any accessories (commercial or home-made) when used in conjunction with some piece of timber or other may well be a different matter. For example, any device using router guide rods in conjunction with a ski system may be a little inaccurate in terms of squareness of cutter to the work, simply because the rods are not quite straight (and it is a little unreasonable to expect them to be). This can mean (among other things) that a 45 degree mitre machined along a length of timber with a router may be a little more or less than the required angle.

Matters can become a little more tricky when the angle required is something other than 90 degree or 45 degree. Although nothing to do with routing, the figures illustrate the point. The dodecahedron shown in the photograph is made from twelve pentagon segments, with angles as shown. In order to obtain good hairline joints over the entire assembly, all twelve segments must match, and the angles must be carefully machined. Whilst I find it easy to calculate to three places of decimals, working to that accuracy in wood is a little beyond me.

Nevertheless, if I don't make a reasonable job of it, joints which appear to be excellent on the assembled piece will appear less so when it is turned into a ball.

In conclusion, the point I have been trying to make all along is that, when making something in wood (or any other substance), the measuring devices are only part of the process and, even if one has a 'perfect' trysquare, and an equally 'perfect' straightedge against which to operate it, one is still a very long way from the 'perfect' finished piece.



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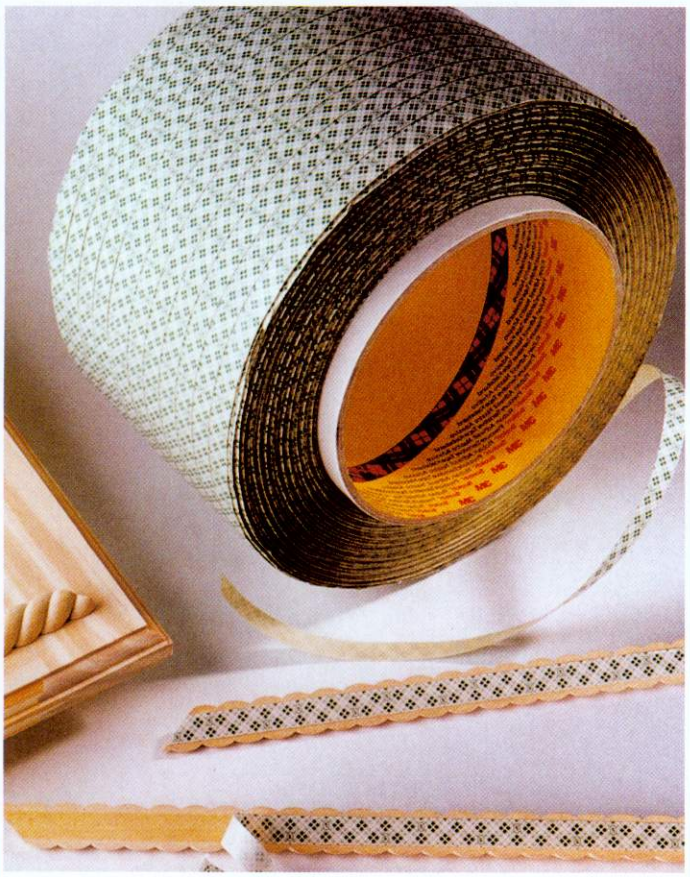

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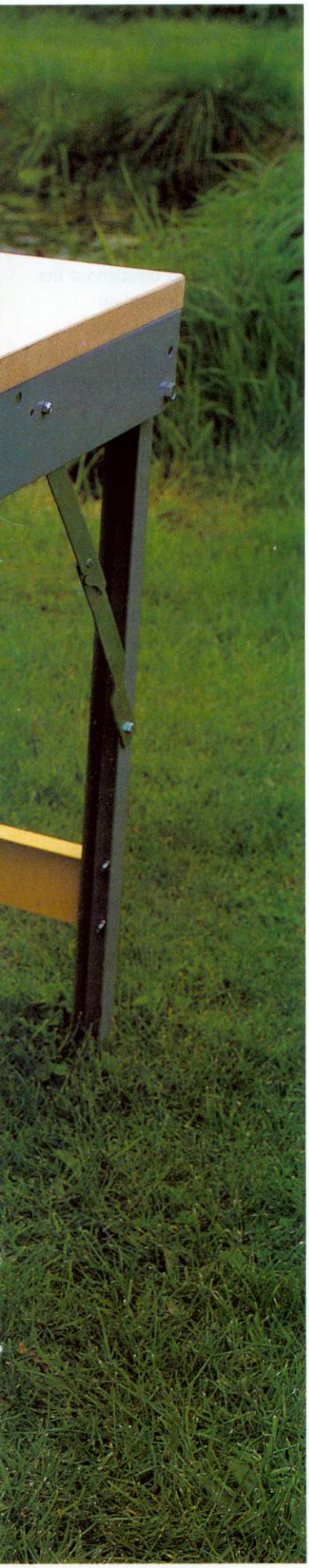


# The Triplex Powerbase 900

**Mike Collins looks at this multi-purpose portable workbench from France which is sold in Britain by Axminster Power Tools**

When I first picked up the flat pack containing this bench I made a mental note that it felt reassuringly heavy and indeed it is in general quite heavily built. The blade guard is an exception but more of that later.

## Instructions

There were two instruction leaflets, one basically a parts list and the other showing methods of use. These were particularly well illustrated but both were entirely in French. Although I found no difficulty in setting up the machine (in fact a good deal of it had been done previously) I do think some English translation wouldn't be a lot to ask.

## General construction

This is a folding bench rather like a wall papering table with pressed steel legs which lock with steel straps when opened up. It stands 730mm high and has a rectangular top of Melamine-faced 25mm thick mdf. The bench top measures 720 x 600mm and has two channels to accommodate the main fence. The central plate (or table insert) under which your router or circular saw is bolted is also made in pressed steel. The tools are held in place with four wing nuts running in diagonal slots in the usual manner.

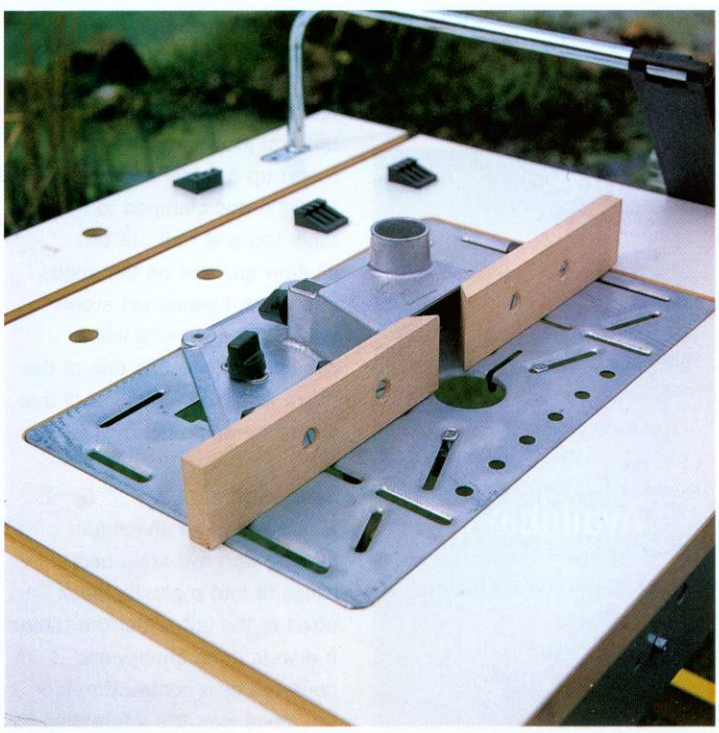
## For use with a router

Once the tool is held firmly in the table insert, the router fence is fitted, as shown in the photograph. This has a wooden sub-fence in beech held be four countersunk screws and the provision for fitting dust extraction facilities. This unit is made in cast aluminium and is fitted in position on the plate with four thumb screws quickly and conveniently. It can be adjusted to suit the depth of cut by slackening thumbscrews and moving it into the required position. The direction of rotation for the cutter is marked on the casting. Also in the casting is a hole to take the hold-down clamps which come with the package. The adjustments for the hold-downs are again with thumbscrews which makes for quick and easy setting.

## The main fence

This is an aluminium extrusion of fairly beefy size which is held in

Set-up with router in position



Close-up of vice

place in a small clamp which runs in the channels on the surface. I found it fiddly to fix this in place, but once done I must say it was very firm and positive. It can be used in two height positions depending on the nature of the work being undertaken. I really don't like the idea of a metal fence running in mdf channels and I have no idea how long such an arrangement would last under normal conditions without becoming sloppy. I suspect also that any dampness in the air could cause jamming problems but I found none in the time I used it. With the tool I tested there was no mitre fence but I tried out a spare one I had with a 15mm bar (quite a common size on small table saws) and it worked perfectly O.K. I am told a mitre fence is available and the price is given at the end of the article. I assume it is a rather grander affair than the one I eventually used.

There is also no provision on the table top in the way of calibration. If I owned this tool the first job I would do would be to set up a router on a straightedge clamped to the table top and rout out two shallow grooves on the edges into which I would set steel rules. When working with a circular saw,which is one of the major intended functions of this tool, they would be invaluable.

## Price

The basic table is £99:95 inc. vat
The router fence kit is £35:41
The mitre fence £33:97
Extra sole plates with clamps £10:86

## Available from

Axminster Power Tool Centre,
Chard Street,
Devon EX13 5D2
Phone: 01297 33656

### The vice

This again is an aluminium casting with two steel bars which fit into a plastic block fitted to the left under the table. It also is quite chunky and is operated by a central thread in the usual way. It's interesting to see that the manufacturers have incorporated two holes in the top to accommodate bench stops. This greatly enhances its usefulness when cramping along the top of the bench since two lines of similar holes are provided. The system is very similar to the Black and Decker Workmate . There is however no provision for fitting wooden jaws to the inside face of the vice and it's omissions like this which indicate that there was probably no woodworker there during the design process. It's an easy matter to drill holes for this yourself but you shouldn't have to!

### Controls

The on/off switch and cable comes seperately and it's a simple matter to fit it to the bracket fitted to the right of the table. This is a convenient height for hand operation and the stop button can also easily be hit with the knee in an emergency.

### The blade guard

Compared to the rest of the product this is really quite a flimsy arrangement. The clear plastic guard itself is OK and it has a dust extraction facility, but it is held by a rather uncertain tubular steel arm with a plastic piece coming off it at rightangles. It does work but it has the feel of a piece made when the will to win or the money was running out.

### Conclusions

My initial feeling of quality in the product I must say was largely retained throughout the test, with the exception perhaps of the blade guard and possibly the locking straps on the legs which were also a little flimsy. I would certainly want wooden faces on the vice and some form of calibration on the table top, but these things are fairly readily attended to.

My main worry is the use of MDF on a tool that is likely to be used outside the workshop at some time. I'm sure nobody would be foolish enough to use power tools outside in the rain but I can visualise circumstances where the bench might be left outside and caught in a sudden shower. It is after all a portable tool which comes complete with a carrying handle. That aside it would be a useful asset in the workshop and it is certainly well worth considering at the price.

On/off switch comes separately

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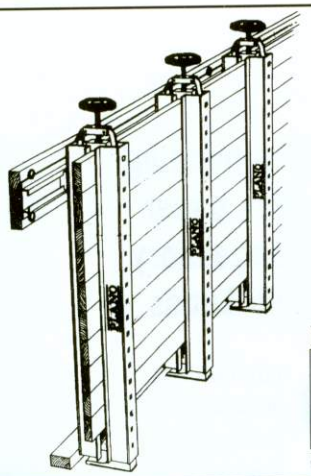

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**Ideal for a budding chef is this super kitchen accessory from David Lucas**

# A cooker for Ruth

Ruth, my eldest grandchild who is three years old, lovesto help her mother cook and she also like to pretend to 'cook' by herself, so I was asked to make a play cooker. As space was limited, this was to go on a table top.

But beware, according to initial reports from Ruth, this cooker 'burns' the 'food' she has been cooking!

## Key parts

The key parts of the construction were the two sides (see Fig. 1). These must be made as a left hand - right hand pair and in the early stages I found it wise to keep checking this so that I did not finish with two left or two right hand sides! Each side started as a rectangle of 12.5mm MDF; one corner was cut-off, as marked, at an angle of 45 deg. and then a 6.3mm wide rebate was routed along the 'back' to a depth also of 6.3mm. I used a bearing guided slotting cutter with the router mounted in a table for this, but a rebate cutter could also have been used.

The router was then fitted with a 6.3mm straight cutter and also with a side fence. The fence was carefully adjusted so that the cutter was 6.3mm in from the fence. This enabled a groove, to a final depth of 6.3mm to be cut across the top and the bottom of each side panel. I held the panel in a G-cramp which was fixed in the bench vice. The panel also butted against a temporarily fixed nail to stop the panel turning.

The fence was then re-adjusted so that the cutter was only 3.1mm from the fence and a 6.3mm deep groove was cut across the diagonal where the top corner had been removed. This left a rather fragile edge of MDF which may well split, but as it is not load bearing it can be kept and easily glued back into place when the knob panel is in position. The edges of the outer side of each panel were rounded using a 1.6mm radius bearing guided rounding over cutter with the router in the table.

## Shelf runners

The six shelf runners were cut and finished to size with one end being rounded by hand. They were then glued and screwed to the sides. Be careful to keep the natural rather than the cut edge of the MDF next to the side panel or the narrow strip may be inclined to split as the screws are tightened.

The base is cut to size and a 6.3mm wide and 6.3mm deep rebate is cut across each of the (290mm) ends. Check that the tongue that is left fits comfortably into the groove which has been cut in the side panel. If it is too tight then deepen the rebate slightly to reduce the thickness of the tongue; do not force the tongue into the groove or the bottom edge of the side panel may be split off. Another similar rebate is cut across the back of the base, but on the opposite face to the end rebates. This will accommodate the back panel.

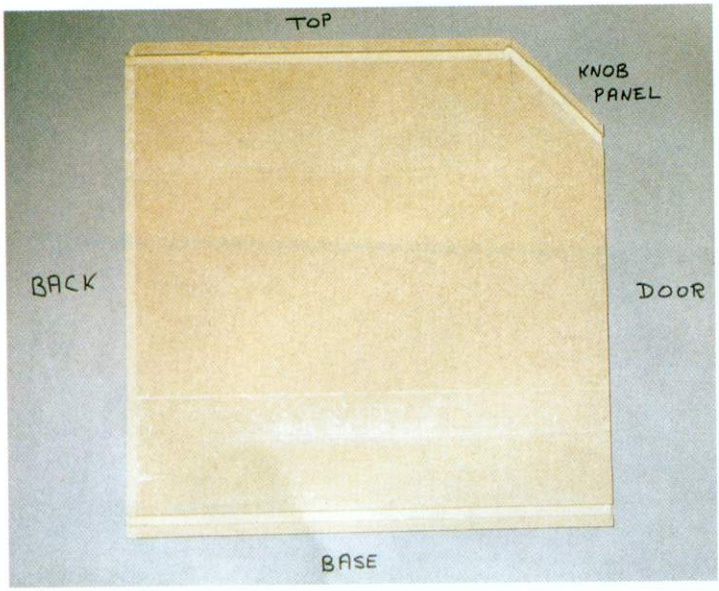
The top is cut to size and similar rebates are cut and, if necessary adjusted, on each end, as for the base. No rebate is needed across the back as this just butts onto the back panel.

## Knob panel

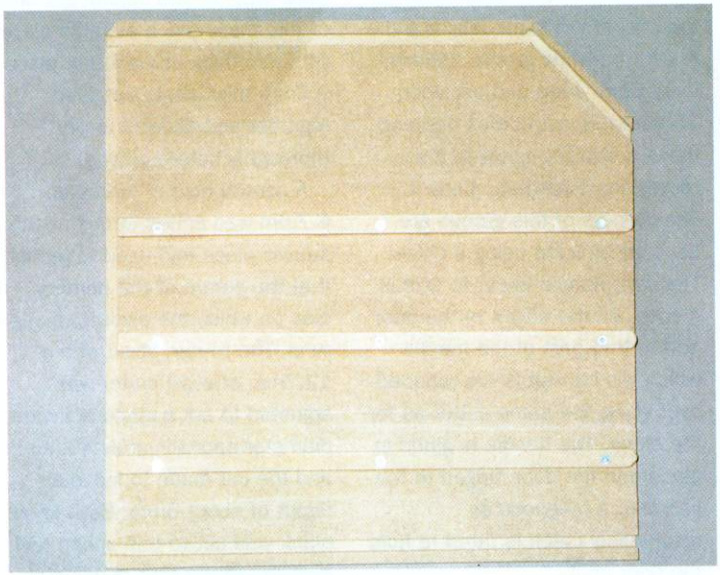
The knob panel is again cut to size and rebated across each end to a width of 6.3mm, but to a depth of only 3.1mm so as to leave a tongue of the same thickness as before. Take great care in testing/adjusting the tongue thickness because of the fragility of the unassembled side panel at this point, as mentioned above.

The back and front of the knob panel must be bevelled at 45 deg. To do this I temporarily mounted another straight edged piece of MDF flush with the front edge of the knob panel using double-sided adhesive tape. The bevel was then cut using a

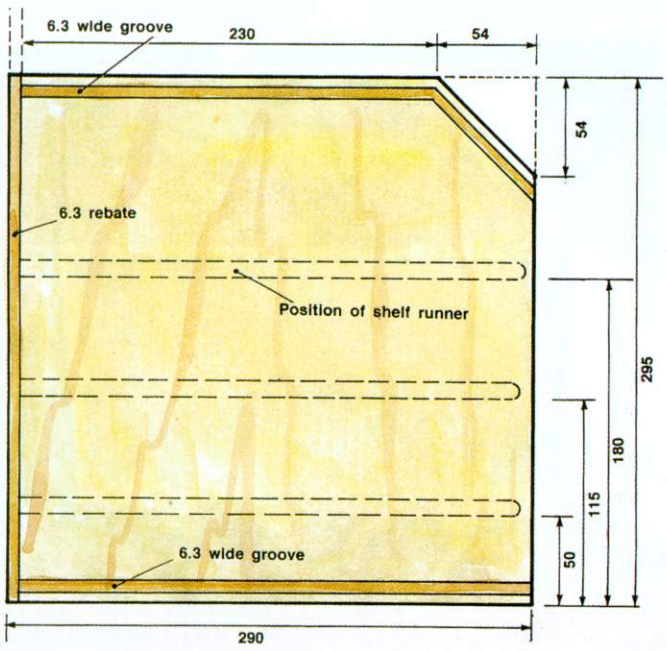
**The router ready to cut the grooves on a side panel**

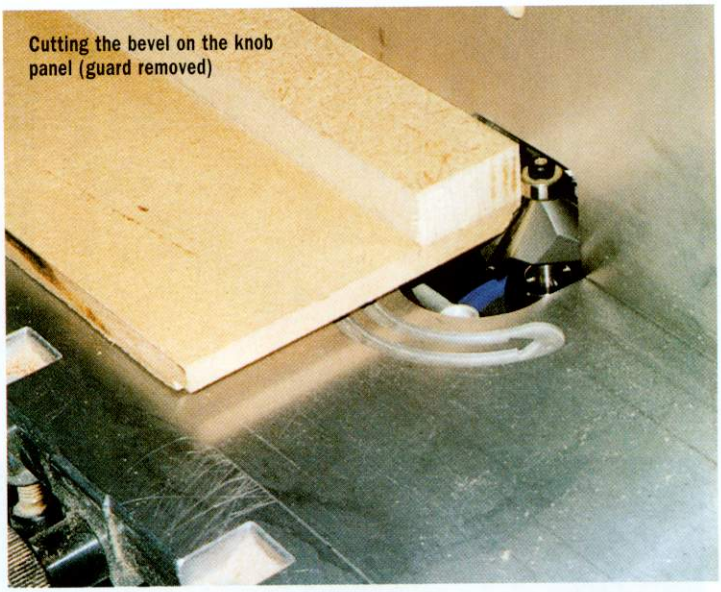



A side panel with grooves completed

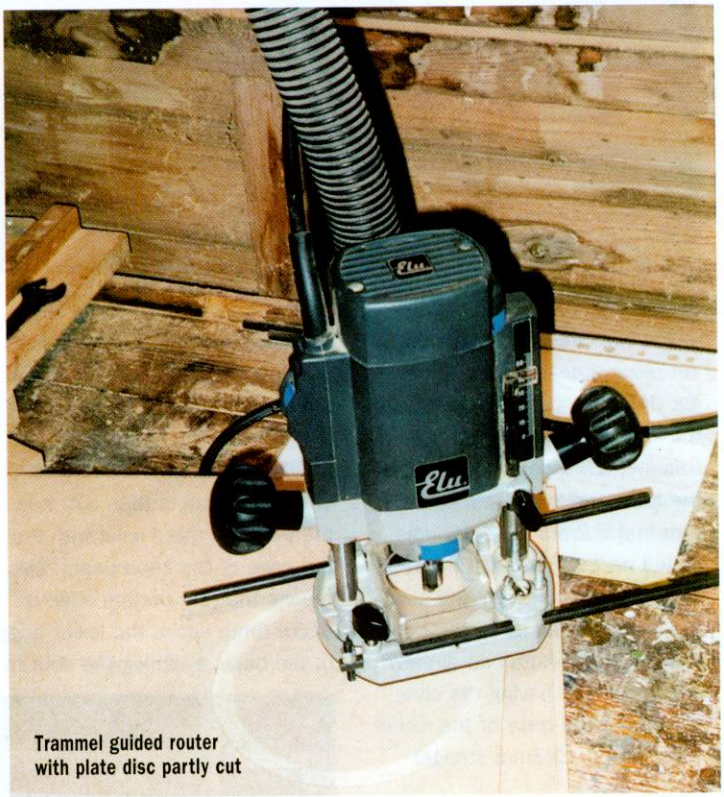


A side panel complete with shelf runners



Cutting the bevel on the knob panel (guard removed)

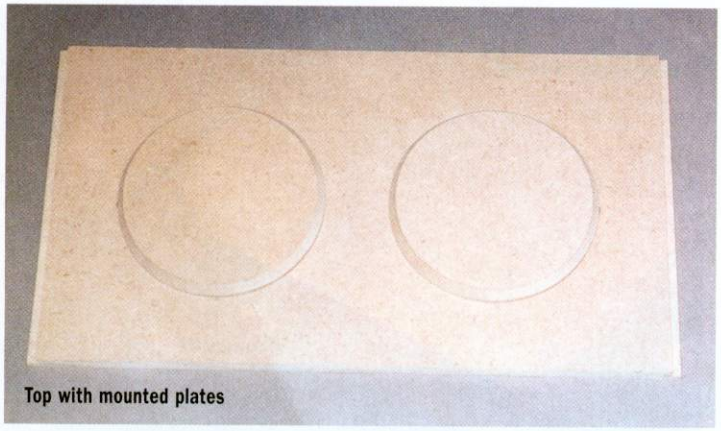


Trammel guided router with plate disc partly cut

suitable bearing guided cutter with the router in the table. The depth was gradually increased until, with the bearing running on the extra piece of MDF, the bevel was cut to the full depth of the panel. Without the extra piece of MDF the bearing would have nothing to run against as this depth was approached.

The extra piece was gently removed, the knob panel turned over and the process repeated in the other edge (the two bevelled edges are therefore parallel to each other). Four evenly spaced holes of diameter 6.7mm were drilled along the centre line of the panel, as seen from the outside, to receive the knob spindles. (The number of knobs can be varied, but I was thinking in terms of left plate, right plate, grill and oven).

The back was cut to size and then cut into very 'fat' T-shape by removing a 6.3mm wide strip from each side apart from the top 51mm. This should fit into the rebates on the sides and base, but sit full-width across


Top with mounted plates

Door panel with groove for handle and handle

The completed carcase

the top.

The two circular plates were cut using a beam trammel bar. To get the right diameter I removed the knob from the pin of the trammel and inverted it so that the thick part of the pin could turn in a 5.2mm diameter hole drilled part way through the MDF. I found that I could get the size of plate I wanted (to fit the pots and pans that Ruth had already been given) by having the pivot right up to the base of the router and using a 12.7mm straight cutter.

The depth of cut was gradually increased until the disc was cut out of the MDF sheet. The edge was then chamfered to a depth of about 8mm using a 60 deg. cutter with the router in the table. Make sure the chamfer is cut the correct way up so that the pivot hole will be hidden when the plate is glued to the top panel.

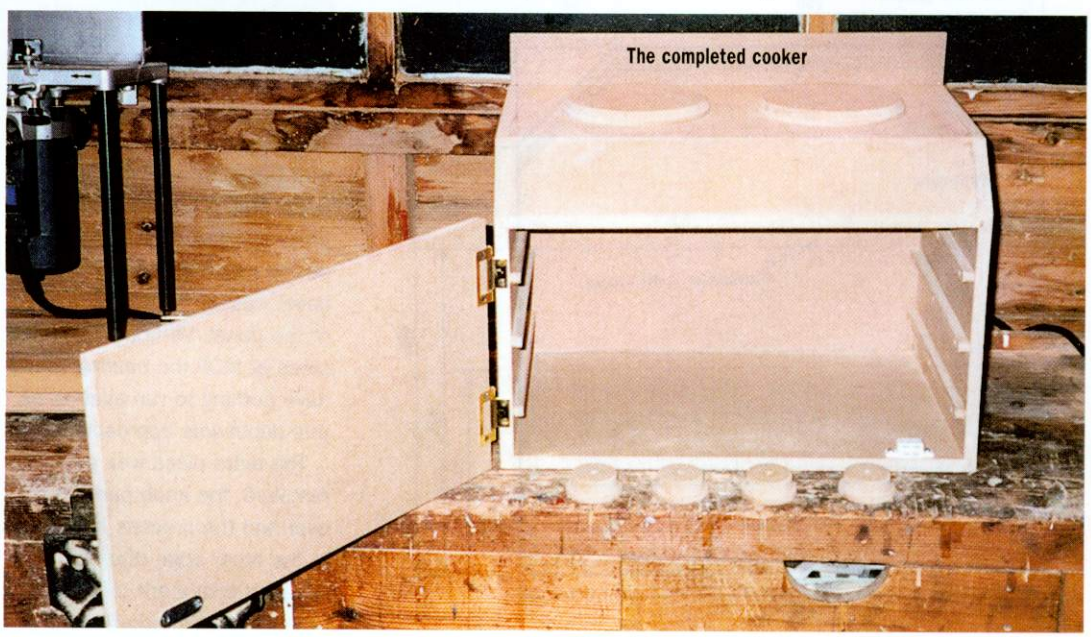
At this stage the basic carcase can be assembled. The two plates are first glued symmetrically to the top. Then the tongues on the top, knob panel and base are glued into the appropriate grooves on the side panels and finally the back panel glued into place.

## Door panel

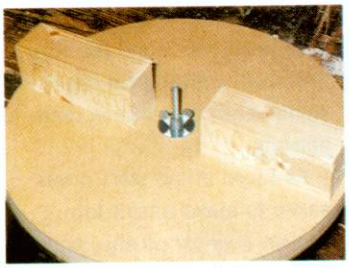
The door panel is then cut. It is meant to be fitted level with the top edge of the knob panel. This means that the bottom edge is about 6mm above the lower edge of the base, enabling the door to swing clear of the table on which the cooker will eventually stand. A 12.7mm wide groove 190mm long, 6mm deep and set about 25mm in, is cut across one end using a straight cutter in the router and a fence to guide it. The corners of this groove are squared by hand using a chisel. The door handle is cut to fit this groove. All the edges of the door and of that part of the handle which will be visible are rounded over using the same cutter as for the sides. The handle is glued in place and the door hinged to the carcase. A magnetic or mechanical catch is fitted to hold the door shut.

Each knob was cut from a 60mm square piece of 22mm thick MDF. (If you cannot get MDF of this thickness a suitable piece 12.7mm thick and another piece 9.5mm thick could be glued together and allowed to dry thoroughly before cutting).

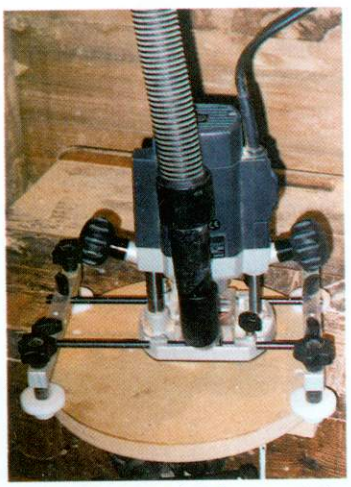
A central hole of diameter 6.7mm was drilled through each square piece and used to mount it at the centre of the primary disc on which the pivot frame jig runs. The router, fitted with a 12.7mm straight cutter was adjusted to cut a circle of inside diameter approximately 40mm and the cut made to leave a depth of about 6mm. Each knob blank was cut to this shape and then the router was re-adjusted to cut a circle of inside diameter approximately 50mm and the


The completed cooker

A knob block mounted on the pivot frame primary disc



The underside of the primary disc showing vice block and mounting bolt



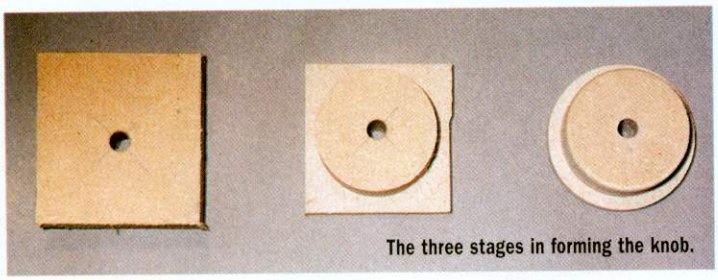
Router mounted on pivot frame, ready to cut knobs

final cut made right through, just to touch the primary disc. The 40mm diameter edge was rounded over as before, taking great care in presenting these small parts to the table mounted router.

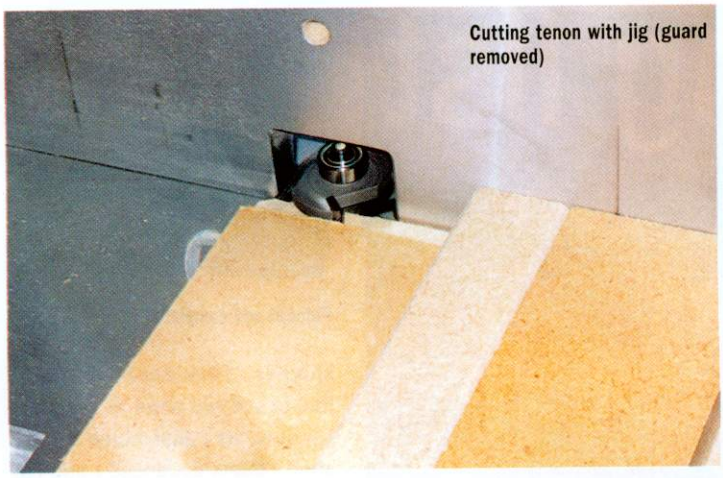
## Final stages

After a final check that all edges and corners have been rounded over and that all surfaces are smooth, the construction work for the main part of the cooker is complete. Now it can be painted, using approved non-toxic primer and paints, as desired - or, if it is not to be a surprise, as desired by the owner-to-be!

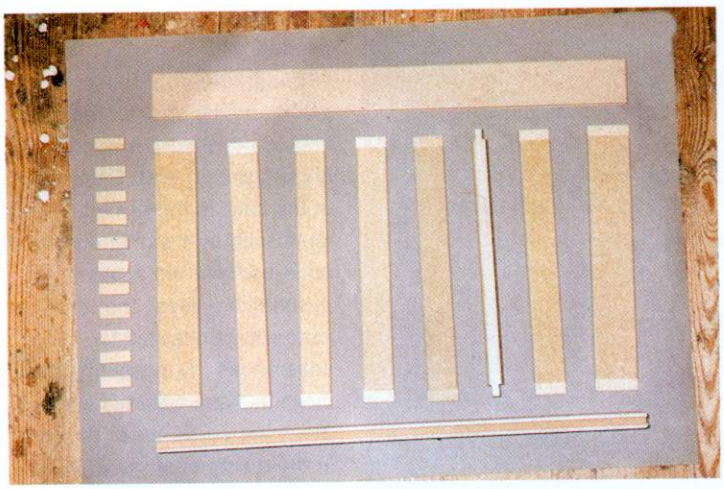
When the painting is complete the knobs are fitted using 6.3mm mild steel rod with a chrome dome axle clip at each end (as used for holding wheels onto axles of toy cars etc.). The length of the rods is approximately 38mm, but the exact length will have to be checked because of variations in the thickness of components. A metal washer was included between knob and knob panel.



The three stages in forming the knob.



Cutting tenon with jig (guard removed)



Components for the oven shelf

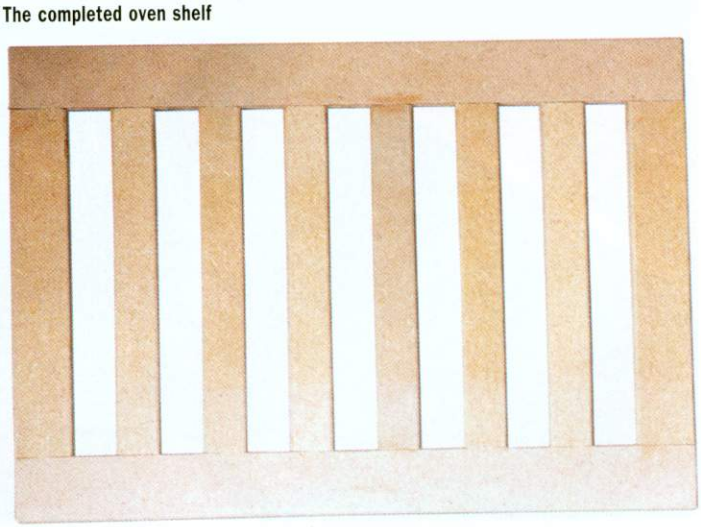
## Oven shelf

The oven shelf was made using a technique which I have employed several times to make partitions of all sorts, some of much larger dimensions. The various parts are cut very carefully to size as there is only 1mm spare between the sum of the widths of the ends, cross -pieces and spacers and the width of front or back. A 6.3mm groove is cut centrally along one long edge of the front and of the back, to a depth of 9.5mm. All the other edges are rounded over as before. The 2 ends and the 6 cross-pieces have a tenon formed at each end. This tenon is 9.5mm deep and of a thickness that fits comfortably into the grooves on front and back. A simple, jig, made of a piece of 6.3mm MDF with another straight piece of thicker MDF fixed at right angles across it, was used. The 6.3mm slotting cutter, left in the same position as for the cutting the grooves, will shape the end of the jig the first time that it is used as well as cutting half of the tenon.

The component is turned over to cut the second half. The thickness is tested by trying it in the groove and, if necessary, the router cutter adjusted slightly (raising it to make the tenon thinner or vice versa). All the long edges are rounded over.

The spacers are simple strips of 6.3mm MDF carefully cut to length. If the strips fit too tightly into the groove abrade the strip before cutting into individual spacers. The photograph shows all the components with one cross-piece abnd the front turned on edge to show the detail. (And, yes, I know there are only 12

The completed oven shelf



# Cutting list

All parts were cut from MDF

All sizes in millimetres

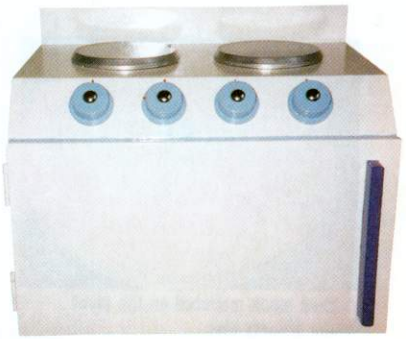
| | | | | |
|---|---|---|---|---|
| Sides | 2 | 295 | 290 | 12.7 |
| Base | 1 | 420 | 290 | 12.7 |
| Top | 1 | 420 | 230 | 12.7 |
| Back | 1 | 433 | 340 | 6.3 |
| Knob Panel | 1 | 420 | 85.5 | 9.5 |
| Plates | 2 | 137 diameter | | 12.7 |
| Knobs | 4 | 60 | 60 | 22 |
| Door | 1 | 432 | 235 | 12.7 |
| Door handle | 1 | 190 | 32 | 12.7 |
| Shelf runners | 6 | 280 | 10 | 9.5 |

Materials

2 hinges, 1 catch, 4 pieces of 6.3mm steel rod approximately 38mm long, 8 chrome dome axle clips, screws for hinges and shelf runners.

For the shelf :

| | | | | |
|---|---|---|---|---|
| Front/Back | 2 | 402 | 38 | 12.7 |
| Ends | 2 | 219 | 38 | 12.7 |
| Cross-pieces | 6 | 219 | 25 | 12.7 |
| Spacers | 14 | 25 | 9.5 | 6.3 |



**Painted and complete**

spacers - I miscalculated and had to cut two more at the last minutes, as I assembled the shelf - thank goodness I had cut more to the basic strip than I needed!).

The groove in, say, the front is glued and the shelf assembled - end, spacer, cross-piece, spacer, cross-piece ... end. The groove in the back is then glued, positioned over the tenons at the other end and the spacers pushed into place. The whole assembly is checked for squareness, by measuring the diagonals and adjusted until these are equal. When the shelf is dry a strip of abrasive paper can be pulled to and fro over each spacer to round the edge. The shelf is given final check for smoothness and is then ready for painting.

As I said at the start, I was asked to make a table-top cooker. It would be easy enough to convert the design into a free-standing one by making another 'box' of the same width and depth and of suitable height, with shelf runners and, perhaps, two more shelves. The door for this 'box' could have a matching handle. The construction which I have described in detail becomes the 'grill' and can be fixed on top of the box which becomes the 'oven' to make a complete 'cooker'.

# Route to success...

## enter our £1,000 Competition

### It's time to get into the workshop and make your router work for its living!

One of the highlights of any woodworking show is the display of competition entries and this year we are looking for entries to a new competition, for any project predominantly made with the router. It can be a small jewellery box or a dining table.

**Entries will be displayed and judged at the International Woodworking and Woodturning Exhibition at the NEC from 9th-11th October.**

## What can I enter?

- Any project that is your own design and that has been made this year, predominantly using a power router.
- The entry must not have been exhibited at any other woodworking show.
- If your project is more than 2m long and 1m wide, please phone our editorial office on 01322 660070 to arrange delivery to our offices.

## How do I enter the competition?

1. First, fill in the Registration Form (to arrive no later than 18th September) to let us know you want to enter the competition. Please send a photograph of your project as well.
2. Then, send or bring in your project to Nexus House, Azalea Drive, Swanley, Kent BR8 8HY. Remember to include your Entry Form. This must arrive here no later than Friday 25th September.
3. All entrants will receive a free entry pass to the show for the Sunday to attend the prizegiving and collect their pieces.

## The judging

All the entries will be awarded marks for the following criteria:

- Creative use of the router, including jigs and templates
- Craftsmanship
- Design

**Sponsored by DeWalt Power Tools**

### Return of entries

Entries must be collected from the NEC Exhibition Hall after 5.00pm on the last day of the show (Sunday 11th October).

Please ensure you entry is well packed and please write your name and address and the name of the competition clearly on the package.

If you wish to make alternative arrangements for delivery, please phone the editorial offices (01322 660070).

## REGISTRATION FORM

PLEASE NOTE THIS IS NOT AN ENTRY FORM

Send this competition to: Routing Competition, Nexus House, Azalea Drive, Swanley, Kent BR8 8HY.

Name.....
Address .....
.....
.....
Postcode .....Tel no:.....
Description of project.....
.....
Wood used.....
Date.....Signature .....
Estimated value for insurance
*Please complete this form and return it to arrive no later than 18th September 1998.*

## ENTRY FORM

THIS FORM MUST ACCOMPANY THE PROJECT

To be sent with your project to: Routing Competition, Nexus House, Azalea Drive, Swanley, Kent BR8 8HY.

Name.....
Address .....
.....
.....
Postcode .....Tel no:.....
Description of project.....
.....
Wood used.....
Date.....Signature .....

### Rules

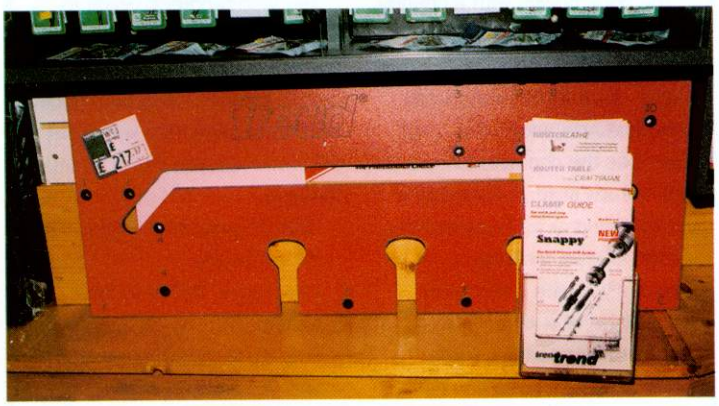
1. The competition is open to readers resident in Great Britain, Channel Islands, Eire and the Isle of Man.
2. All entries must arrive before the closing date.
3. All entries will be displayed at the NEC Exhibition between 9th and 11th October.
4. The judges decision is final
5. All projects must the be the entrant's own work
6. Photographs of entries may be used in Nexus Woodworking magazines.

# Dedicated to routing

**Peter Roper re-visits Britain's only dedicated routing shop**

Selection of 'bargain' price routers

Large array of accessories are available




Customers can take away everything for the router including a wide range of jigs and templates

Set in the centre of the Derbyshire dales is the picturesque village of Bakewell. Historically, the village is famous the world over for a particular type of confectionery, attracting many thousands of holiday makers every year. More recently it has become the centre of excellence for everything connected with the increasingly popular craft of routing.

Tradesmen and enthusiastic home woodworkers have been making the pilgrimage to the village to visit the home of routing - Tabwell Tools. The shop, which has been opened just four years, concentrates only on providing anything and everything connected with routing. When the shop first opened, I vent to look around and was amazed at the foresight of Tabwell Tools. It had seen the significant growth in the routing market and had taken the speculative step of concentrating just on this market.

At the time, many in the industry predicted that it could not survive, servicing such a narrow section of the woodworking marketplace. It's continued growth and success has proved these doubters wrong, and has convinced many others to think more seriously about increasing their stock of routing equipment amongst their ranges of drills, saws, lathes and chisels routers, cutters and tables. But Tabwell Tools remains the only dedicated router shop in the whole of the UK.

Inside it's like an Aladdin's cave. The shelves are stacked high with virtually every make and type of router, most of them at very attractive prices. There is also a wide range of tables, routerlathes, jigs accessories and one of the largest array of cutters you could ever image. There are sets of cutters to suit all your needs and price requirements plus single cutters for every application. These range from 3mm straight cutters to complex panel cutters.

Tabwell Tools even have their own ranges of cutters designed specifically to be price competitive and offer outstanding value for money. For more details about the cutters, see our review in this issue.

Customers of Tabwell Tools are dedicated too. According to Richard Tipper, manager, "we get people travelling great distances just to buy the cutter they need. Customers come into the shop from all over the country with many regulars based in North Wales, despite the fact that we operate a thriving mail order business.

"It is easy to purchase cutters, accessories or routers over the 'phone from us. All the customer has to do is ring us up before 3pm, to us what they want and give their credit card details, and they will receive their order the next day. We have massive stocks of virtually all requirements."

According to Mr. Tipper, one of the fastest moving routers from their shelves is the Bosch 900 followed by all types in the Freud range. To help support the router enthusiast even more, they operate a full repair service for all makes of router, plus they handle the warranty work for certain popular makes,

Window display of a few boxed sets with more inside

Tabwell Tools is also unique in another customer area. The shop is open every single day of the year, except Christmas Day, so whatever you want, and whenever you need it, there is only one place to consider. The success of Tabwell Tools' dedicated routing shop in Bakewell has been almost unbelievable. I wouldn't be surprised if, in a few years time, there weren't many more such shops spread across the rest of the country.

## More information from

**More information from:**
**Tabwell Tools**
**Rutland Square**
**Bakewell DE45 1BZ**
**Tel: 01629 814416**
**Fax: 01629 814993**

Customers are left in no doubt about the products stocked

# Book Review

## 100 Tips to Workshop Safety

From eye protection to handling accidents, this at-a-glance guide is packed with tips and advice on running a safe workshop.

It shows how to set up and run a safe, efficient workshop; create and maintain a secure environment including wiring, lighting, flooring, storing tools, ventilation and more.

Use your hand and power tools safely.

Avoid common accidents and handle emergencies.

Packed with tips and advice to help you maximise your woodworking efficiency and creativity.

Date of publication: November 1997
Price £7.95
64 pages, hardback 185 x 145mm
Fully illustrated throughout in colour and b/w photographs and drawings.

**Stobart Davies Ltd.,**
**Priory House,**
**2 Priory Street,**
**Hertford,**
**Herts. SG14 1RN.**
**Tel : 01992 501518**
**Fax : 01992 501519**

***by Alan and Gill Bridgewater***

## 100 Tips to Preventing and Fixing Woodworking Mistakes

From rejuvenating joints to varnishing veneers, this at-a-glance guide is packed with advice and tips to help make woodworking errors a thing of the past.

Find out how to avoid and correct one hundred woodworking blunders ; select the most suitable materials to head off potential problems; save time and material costs and rescue whole projects from disaster.

Develop your own way of overcoming woodworking problems.

This book is packed with easy to find tips in a quick-reference format.

Date of publication :November 1997
Price £7.95.
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Fully illustrated throughout in colour and b/w photographs and drawings.

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***by Alan and Gill Bridgewater***

## The Woodworker's Guide to Furniture Design

The complete reference for building furniture the right size, the right proportion and the right style.

Written by a woodworker for fellow woodworkers, this book teaches you the techniques to get those great designs out of your head and into working drawings. You'll learn how to create original furniture that's strong, attractive and well-proportioned.

The book begins with a chapter of detailed descriptions and illustration of a variety of furniture styles - such as Shaker, Queen Anne and Arts and Crafts - and describes the characteristics that define each style. A summary of the evolution of furniture designs, written in plain language, provides you with a historical perspective of each style's purpose and aesthetic value.

That sections gives you design ideas and helps get your creative juices flowing, while subsequent chapters provide you with design instructions, each beginning with an overview of the idea it describes and following with clear directions.

These instructions include :

- how to develop a design philosophy
- how to apply standards of size, shape, style and function to your ideas
- how to turn ideas and photos into working drawings
- how to select the proper materials, tools and joinery for your plan

The Woodworker's Guide to Furniture design takes you from concept to product, teaching you how to get your ideas onto paper - and from paper into wood. Let this book turn you into a furniture designer.

Date of publication : April 1998
Price £16.99
224 pages, 280 x 215mm, paperback
Fully illustrated throughout.

Available from :
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***by Garth Graves***

## Sharpening with Waterstones A Perfect Edge in 60 Seconds

Master craftsman Ian Kirby teaches you a series of logical steps for putting a perfect edge on planes, chisels, knives and carving tools. This is the only sharpening book that shows you exactly how to hold the tools, where and how to stand and how to move.

You will learn :

- What bevel angles are best and how to achieve them.
- How to test for sharpness.
- How to choose and equip a grinder.
- How to build a special bench for sharpening.
- Which waterstones to buy.
- How to sharpen and polish a perfect edge.

Woodworking with sharp tools is pure pleasure. With sharp tools you can lay out and cut joints that fit and you can plane the wood perfectly smooth for finishing. With sharp tools, you will immediately become a better woodworker.

Date of publication : April 1998
Price £9.95
112 pages, 230 x 152mm paperback
Fully illustrated throughout with 225 photographs and diagrams.

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***by Ian Kirby***

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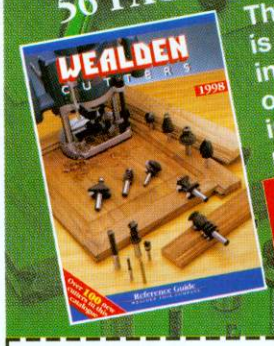


The 1998 Wealden catalogue is packed with technical information, illustrations and over 500 Router cutters, including over 100 entirely new products. Just call the

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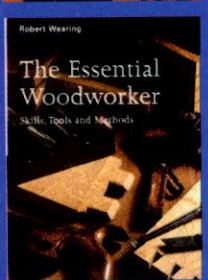


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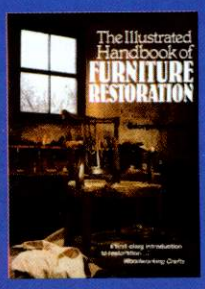


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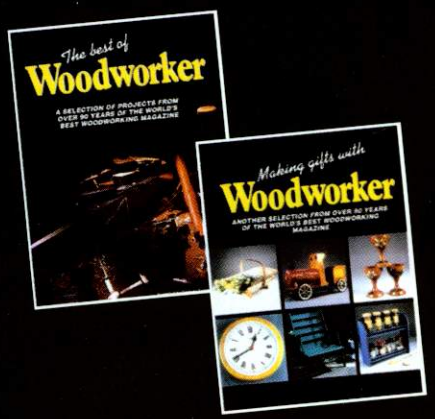


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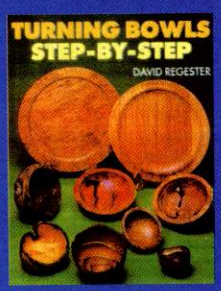


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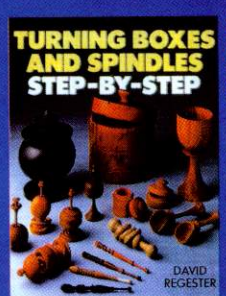


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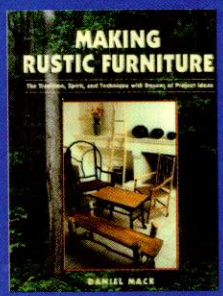


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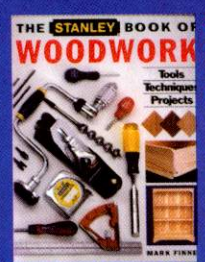


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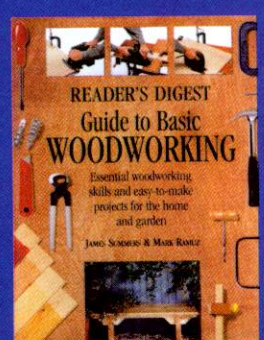


## The Guide to Basic Woodworking - by the editor of The Woodworker.

The perfect step-by-step course for anyone wanting to take up woodworking for the first time. In this practical easy-to-follow guide, James Summers, a trained cabinet maker and furniture designer, and Mark Ramuz, Group Editor of The Woodworker and Practical Woodworking take you through all aspects of working in wood, from choosing and buying tools to mastering the essential techniques needed to make a range of simple, high quality products for the home and garden.

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**Code: HB6 ONLY £3.80 UK £4.45 Overseas**

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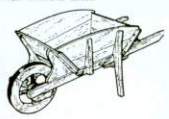
## GARDEN FURNITURE PLANS- START BUILDING FOR THE SUMMER NOW!

**Traditional Wheelbarrow**
These notes and sketches are for the making of a full sided Elm wheelbarrow.
Code: WW321
ONLY £6.50 UK
£7.00 Overseas



**Cold Frame**
Turn the garden waste into a useful bye product. Simple construction using plank and squared section. The prototype was made of old palette timbers.
Code: WW416
ONLY £3.80 UK
£4.30 Overseas

**Folding Garden Table**
This fully folding table has an attractive 'sunray' pattern top. Teak or Oak if to be left out but treated softwood is quite practical.
Code: WW423
ONLY £3.80 UK
£4.30 Overseas

**Garden Chaise Long**
A portable, fold away leisure chair of squared section timber, any hardwood being suitable.
Code: WW304
ONLY £3.80 UK
£4.30 Overseas

**Garden Furniture Suite**
An armchair and table set that would grace any garden. Teak is the best option, closely followed by Iroko, but Western Red Cedar is a much more reasonable alternative. Some mortise and tenon joints, but many simply screwed.
Code: WW309
ONLY £5.75 UK
£6.25 Overseas

**Garden Seat**
A sturdy piece designed by David Bryant.
Code: DB234
ONLY £6.70 UK
£7.20 Overseas

**Gazebo**
A neat summer house in the Victorian style. The plans provide full structural detail.
Code: BG02
ONLY £5.75 UK
£6.25 Overseas

**Deck Chair**
Notes taken from an early Woodworker for a standard deck chair, plus canopy if required.
Code: WW417
ONLY £3.80 UK
£4.30 Overseas

**Dog Kennel/Playhouse**
A chalet suitable for a large dog or small child. Simple hammer and nails construction. Cedar is the natural material for long life.
Code: WW418
ONLY £3.80 UK
£4.30 Overseas

**Garden Seat & Chairs**
This simple design for an armed seat and chair appeared many years ago in Woodworker. Oak or Teak were recommended but Red Cedar is used by many.
Code: WW310
ONLY £3.80 UK
£4.30 Overseas

**Garden Seat 1**
A good solid seat with arms, designed to be made in Oak. Plain mortise and tenon joints.
Code: WW419
ONLY £3.80 UK
£4.30 Overseas

**Garden Shed**
A single pitch roof on a sawn timber frame covered in Shiplap make this an eas piece to build - ideal as a small workshop or store.
Code: WW422 ONLY £5.75 UK
£6.25 Overseas

**Picnic Table & Seats**
The set for the car boot. Totally slatted construction for table, chair and stools. Nice and easy to make.
Code: WW424 ONLY £3.80 UK
£4.30 Overseas

**Summer House**
The hexagonal frame can be built as six separate sections in the workshop, then bolted up together on site. Cladding is in Weather board.
Code: WW425 ONLY £5.75 UK
£6.25 Overseas

**Wheelbarrow 1 Lincolnshire**
The traditional heavy wooden wheel barrow with an open back end. Detailed notes on making the wheel.
Code: WW427
ONLY £4.35 UK
£4.85 Overseas

**Windmill Ornament**
This model is almost too good to leave out in the garden. Both sails and fantail work, so the mill will follow the wind. The kids will love it (if they are allowed near!).
Code: WW428 ONLY £4.35 UK
£4.85 Overseas

**Patio Chair & Seat**
Traditional country inn garden benches with single plank seat and back, and simulated peg construction. A very easy pair to build.
Code: ADW122
ONLY £8.45 UK
£8.95 Overseas

**All prices include postage and packing.**
**Overseas rates are for Accelerated Surface Post**

## Where to Buy Routers

**AEG**
Atlas Copco Tools Limited,
Swallowdale Lane,
Hemel Hempstead,
Hertfordshire, HP2 7HA.
**Tel. 01442 61201**
**Fax. 01442 214705**

**BLACK & DECKER**
Black & Decker Limited,
210 Bath Road,
Slough,
Berkshire, SL1 3YD

**Tel. 01753 511234**
**Fax. 01753 500843**

**BOSCH**
Robert Bosch Limited, Broadwater Park,
North Orbital Road,
Denham,
Uxbridge, Middlesex,
UB9 5HJ.
**Tel. 01895 838743**
**Fax. 01895 838802**

**DEWALT**
DeWalt
210 Bath Road,
Slough,
Berkshire, SL1 3YD

**Tel. 01753 567055**
**Fax. 01753 521312**

**ELU**
DeWalt
210 Bath Road,
Slough,
Berkshire, SL1 3YD.

**Tel. 01753 576717**
**Fax. 01753 521312**

# Routers under £130.00

| Router make | BOSCH | BOSCH | B&D | HITACHI |
|---|---|---|---|---|
| Model ref. number | POF400A | POF500A* | KW780 | ZK2008 |
| Watts imput | 400 | 400 | 600 | 550 |
| 230 Volt | Yes | Yes | Yes | Yes |
| 110 Volt | No | No | No | No |
| Fixed rpm | 27000 | 27000 | 30000 | 27000 |
| Variable rpm | No | No | No | No |
| Spindle lock | No | No | Yes | No |
| Dust deflector only | No | No | No | No |
| Dust hood with spout | Yes | Yes | Yes | No |
| Max plunge depth | 48 | 52 | 55 | 52 |
| Collett chuck size | 1/4 | 1/4 | 6,8mm, 1/4 | 1/4 |
| Collets supplied as accessories | 8mm | 8mm | None | 6mm, 8mm |
| Net weight (KG) | 1.7 | 2.3 | 3.0 | 2.3 |
| List price Ex. VAT. | £104.73 | £111.28 | £114.67 | £122.00 |

# Routers from £130-£160

| Router make | B&D | VIRUTEX | BOSCH | RYOBI |
|---|---|---|---|---|
| Model ref. number | KW780E | FR77C | POF600ACE | RE120 |
| Watts imput | 600 | 850 | 600 | 570 |
| 230 Volt | Yes | Yes | Yes | Yes |
| 110 Volt | No | Yes | No | No |
| Fixed rpm | No | 24000 | No | No |
| Variable rpm | 8-30000 | No | 12-27000 | 16-26000 |
| Spindle lock | Yes | No | No | No |
| Dust deflector only | No | No | No | No |
| Dust hood with spout | Yes | Yes | Yes | No |
| Max plunge depth | 55 | 50 | 52 | 55 |
| Collett chuck size | 6,8mm, 1/4 | 1/4, 3/8 | 1/4 | 1/4 |
| Collets supplied as accessories | None | None | 8mm | None |
| Net weight (KG) | 3.0 | 3.1 | 2.3 | 2.2 |
| List price Ex. VAT. | £141.97 | £155.00 | £157.11 | £159.00 |

# Routers from £160-£189

| Router make | RYOBI | MAKITA | MAKITA | HITACHI |
|---|---|---|---|---|
| Model ref. number | TR50 | 3620 | 3703 | TR6 |
| Watts imput | 500 | 860 | 350 | 440 |
| 230 Volt | Yes | Yes | Yes | Yes |
| 110 Volt | No | No | Yes | Yes |
| Fixed rpm | 33000 | 24000 | 30000 | 30000 |
| Variable rpm | No | No | No | No |
| Spindle lock | No | No | No | No |
| Dust deflector only | No | No | Yes | No |
| Dust hood with spout | No | Yes | No | No |
| Max plunge depth | N/A | 35 | N/A | N/A |
| Collett chuck size | 1/4 | 1/4, 3/8 | 6mm, 1/4 | 1/4 |
| Collets supplied as accessories | None | 8mm | None | None |
| Net weight (KG) | 1.4 | 2.4 | 1.5 | 2.7 |
| List price Ex. VAT. | £169.00 | £173.00 | £178.00 | £183.00 |

# Routers from £190-£201

| Router make | VIRUTEX | DEWALT | DEWALT | AEG |
|---|---|---|---|---|
| Model ref. number | FR78C | DW670 | DW613 | OFE630 |
| Watts imput | 850 | 600 | 800 | 630 |
| 230 Volt | Yes | Yes | Yes | Yes |
| 110 Volt | Yes | Yes | Yes | No |
| Fixed rpm | No | 30000 | 27000 | No |
| Variable rpm | 8-24000 | No | No | 10-27000 |
| Spindle lock | No | Yes | Yes | Yes |
| Dust deflector only | No | Yes | No | No |
| Dust hood with spout | Yes | Yes | Yes | Yes |
| Max plunge depth | 50 | N/A | 35 | 50 |
| Collett chuck size | 1/4, 3/8 | 6.8mm, 1/4 | 1/4 | 1/4 |
| Collets supplied as accessories | None | None | 6, 8mm | None |
| Net weight (KG) | 3.1 | 1.7 | 2.7 | 3.3 |
| List price Ex. VAT. | 190.00 | £195.00 | 199.00 | 201.00 |

## Where to Buy Routers

**FESTO**
Festo Limited,
Automation House,
Harvest Crescent,
Ancells Business
Park, Fleet,
Hampshire. GU13
8XP.
**Tel. 01252 775000**
**Fax. 01252 775101**

**FREUD**
Freud Tooling UK
Limited,
Unit 3,
Emmanuelle Trading
Estate,
Springwell Road,
Leeds,
Yorkshire, LS12 1AT
**Tel. 01132453737**
**Fax. 01132 438883**

**HITACHI**
Hitachi Power Tools,
Precedent Drive,
Rooksley,
Milton Keynes,
Buckinghamshire.
MK13 8PJ.

**Tel. 01908 660663**
**Fax. 01908 232868**

**HOLZ HER**
ToolPak Power
Programme,
Cheetham Tool
Group, Rhosddu
Industrial, Estate,
Wrexham,
Clwyd, LL11 4YL

**Tel. 01978 291166**
**Fax. 01978 290068**

## Where to Buy Routers

**MAKITA**
Makita (UK) Limited,
Michigan Drive,
Tongwell,
Milton Keynes,
Buckinghamshire,
MK15 8JD.
**Tel. 01908 211678**
**Fax. 01908 211400**

**METABO**
Draper Limited,
Hursley Road,
Chandlers Ford,
Eastleigh,
Southampton,
Hampshire.
SO53 1YF

**Tel. 01703 266355**
**Fax. 01703 260784**

**PORTER CABLE**
Hamilton Power Products,
PO Box 2355,
Colchester,
Essex,
CO3 5FY.

**Tel. 01206 762470**
**Fax. 01206 760537**

**RYOBI**
Ryobi Power Equipment (UK) Ltd,
Pavilion 1,
Olympus Park Business Centre,
Quedgeley,
Gloucestershire.
GL2 6NF.

**Tel. 01452 724777**
**Fax. 01452 727400**

# Routers from £201-£222

| | HITACHI | AEG | AEG | FESTO |
|---|---|---|---|---|
| **Router make** | | | | |
| **Model ref. number** | M8 | OFSE2000 | OFS720 | OF900Plus |
| **Watts imput** | 800 | 720 | 720 | 720 |
| **230 Volt** | Yes | Yes | Yes | Yes |
| **110 Volt** | Yes | Yes | No | No |
| **Fixed rpm** | 25000 | No | 25000 | 26500 |
| **Variable rpm** | No | 8-24000 | No | No |
| **Spindle lock** | Yes | Yes | Yes | Yes |
| **Dust deflector only** | No | No | No | Yes |
| **Dust hood with spout** | No | Yes | Yes | Yes |
| **Max plunge depth** | 50 | 75 | 50 | 50 |
| **Collett chuck size** | 1/4 | 1/2 | 1/4 | 1/4, 8mm |
| **Collets supplied as accessories** | 6mm, 8mm | 1/4, 8mm | 6mm, 8mm | 6mm |
| **Net weight (KG)** | 2.7 | 2.5 | 2.5 | 2.7 |
| **List price Ex. VAT.** | 215.00 | 219.00 | 219.00 | 222.00 |

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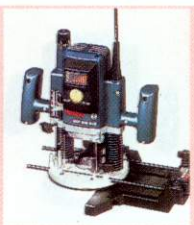
| | ELU | HOLZ HER | RYOBI | DEWALT |
|---|---|---|---|---|
| **Router make** | | | | |
| **Model ref. number** | MKF267K | 2355 | R151 | DW620 |
| **Watts imput** | 600 | 720 | 750 | 750 |
| **230 Volt** | Yes | Yes | Yes | Yes |
| **110 Volt** | Yes | Yes | Yes | No |
| **Fixed rpm** | 30000 | 25,000 | 27000 | 24000 |
| **Variable rpm** | No | No | No | No |
| **Spindle lock** | Yes | Yes | No | Yes |
| **Dust deflector only** | No | No | Yes | No |
| **Dust hood with spout** | Yes | Yes | No | Yes |
| **Max plunge depth** | N/A | 50 | 50 | 55 |
| **Collett chuck size** | 6,8mm, 1/4 | 1/4 | 1/4 | 1/4 |
| **Collets supplied as accessories** | None | None | 6mm, 8mm | 6mm, 8mm |
| **Net weight (KG)** | 2.2 | 2.7 | 2.8 | 2.8 |
| **List price Ex. VAT.** | 225.00 | 228.00 | 229.00 | 230.00 |

# Routers from £231-£272

| Router make | DEWALT | FESTO | SKIL | HITACHI |
|---|---|---|---|---|
| Model ref. number | DW620L | OF900E Plus | 1875U1 | M8V |
| Watts imput | 900 | 900 | 1400 | 800 |
| 230 Volt | Yes | Yes | Yes | Yes |
| 110 Volt | Yes | No | No | Yes |
| Fixed rpm | 24000 | No | No | No |
| Variable rpm | No | 10-22000 | 8-22000 | 10-25000 |
| Spindle lock | Yes | Yes | Yes | Yes |
| Dust deflector only | No | Yes | Yes | No |
| Dust hood with spout | Yes | Yes | No | No |
| Max plunge depth | 55 | 50 | 63.5 | 50 |
| Collett chuck size | 1/4 | 1/4, 8mm | 1/4, 1/2 | 1/4 |
| Collets supplied as accessories | 6mm, 8mm | 6mm | 12mm | 6mm, 8mm |
| Net weight (KG) | 3.1 | 2.7 | 4.5 | 2.8 |
| List price Ex. VAT. | 240.00 | 266.00 | 269.00 | 272.00 |



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| Router make | BOSCH | AEG | ELU | DEWALT |
|---|---|---|---|---|
| Model ref. number | GOF 900ACE | OFSE850 | MKF67 | 621K |
| Watts imput | 900 | 850 | 600 | 900 |
| 230 Volt | Yes | Yes | Yes | Yes |
| 110 Volt | Yes | No | Yes | Yes |
| Fixed rpm | No | No | 24000 | No |
| Variable rpm | 12-24000 | 8-25000 | No | 8-24000 |
| Spindle lock | Yes | Yes | No | Yes |
| Dust deflector only | Yes | No | No | No |
| Dust hood with spout | Yes | Yes | No | Yes |
| Max plunge depth | 50 | 50 | N/A | 55 |
| Collett chuck size | 1/4 | 1/2 | 1/4 | 1/4 |
| Collets supplied as accessories | 6mm, 8mm | 6mm, 8mm | 6mm, 8mm | 6mm, 8mm |
| Net weight (KG) | 3.5 | 2.5 | 3.3 | 2.8 |
| List price Ex. VAT. | 279.00 | 279.00 | 280.00 | 280.00 |

## Where to Buy Routers

**SKIL**
Skil Limited,
PO Box 98,
Broadwater Park,
North Orbital Road,
Denham,
Uxbridge,
Middlesex,
UB9 5HJ.

**Tel. 01895 838743**
**Fax. 01895 838802**

**STAYER**
Stayer Power Tools,
Unit 9,
Guildford Industrial Estate,
Deaconfield,
Guildford
GU2 5YT.

**Tel. 01483 454502**
**Fax. 01483 454415**

**WATFORD**
Watford Routers,
C/O William Distributors,
108 Burghley Road,
Peterborough,
Cambridgeshire,
PE1 2QE

**Tel. 01733 54352**
**Fax. 01733 555275**

**VIRUTEX**
Ney Limited,
Falkland Close,
Charter Avenue Ind. Estate,
Tile Hill,
Coventry,
CV4 8UA

**Tel. 01203 694794**
**Fax. 01203 695005**

## Where to Buy Cutters

**AXMINSTER POWER TOOL CENTRE**
Axminster,
Devon EX13 5DZ

**Tel. 01297 33656**

**BJR INTERNATIONAL**
266 Harrogate Road,
Bradford, BD2 3RG

**Tel. 01274 626805**

**CHARNWOOD**
1-3 Rowan Street,
Leicester LE3 9GP

**Tel. 0116 251 1550**

**CMT TOOLS (UK)**
8 Wainwright Road,
Bexhill-on-Sea
Sussex TN39 3UR

**Tel. 01424 730674**

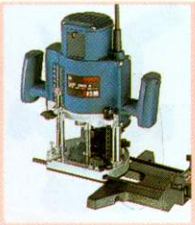
**FREUD TOOLING UK LTD**
Unit 3
Emmanuel Trading Estate,
Springwell Road,
Leeds LS12 1AT

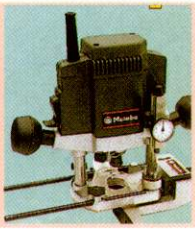
**Tel. 0113 245 3737**

| Router make | FREUD | DEWALT | METABO | MAKITA |
|---|---|---|---|---|
| Model ref. number | FT2000E | DW621KL | OF528 | 3612 |
| Watts imput | 1900 | 1100 | 500 | 1650 |
| 230 Volt | Yes | Yes | Yes | Yes |
| 110 Volt | Yes | Yes | Yes | Yes |
| Fixed rpm | No | No | 27000 | 22000 |
| Variable rpm | 8-22000 | 8-24000 | No | No |
| Spindle lock | Yes | Yes | Yes | Yes |
| Dust deflector only | No | No | Yes | Yes |
| Dust hood with spout | Yes | Yes | Yes | Yes |
| Max plunge depth | 70 | 55 | 50 | 60 |
| Collett chuck size | 1/2, 1/4 | 1/4 | 1/4 | 1/2 |
| Collets supplied as accessories | 3/8 | 6mm, 8mm | 3,6, 8mm, 1/8 | None |
| Net weight (KG) | 6.0 | 3.2 | 3.0 | 5.8 |
| List price Ex. VAT. | 290.00 | 310.00 | 312.00 | 328.00 |

# Routers from £328-£339

| Router make | MAKITA | BOSCH | RYOBI | HITACHI |
|---|---|---|---|---|
| Model ref. number | 3612BR | GOF1300ACE | R502 | M12SA |
| Watts imput | 1600 | 1300 | 1600 | 1600 |
| 230 Volt | Yes | Yes | Yes | Yes |
| 110 Volt | Yes | Yes | Yes | Yes |
| Fixed rpm | 23000 | No | 24000 | 22000 |
| Variable rpm | No | 8-22000 | No | No |
| Spindle lock | Yes | Yes | No | Yes |
| Dust deflector only | No | Yes | Yes | No |
| Dust hood with spout | Yes | Yes | Yes | No |
| Max plunge depth | 65 | 60 | 60 | 62 |
| Collett chuck size | 1/4, 3/8, 1/2 | 1/4 | 1/4, 3/8, 1/2, 8mm | 1/4, 1/2, 3/8 |
| Collets supplied as accessories | None | 1/2, 3/8, 6, 8, 12mm | None | 6mm, 8mm |
| Net weight (KG) | 5.7 | 4.8 | 5.0 | 5.2 |
| List price Ex. VAT. | 328.00 | 329.00 | 329.00 | 332.00 |





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| | RYOBI | BOSCH | METABO | ELU |
|---|---|---|---|---|
| Router make | | | | |
| Model ref. number | R600N | GOF1600A | OF1028 | MOF131 |
| Watts imput | 2050 | 1600 | 1010 | 1300 |
| 230 Volt | Yes | Yes | Yes | Yes |
| 110 Volt | Yes | Yes | Yes | Yes |
| Fixed rpm | 22000 | 25000 | 27000 | 22000 |
| Variable rpm | No | No | No | No |
| Spindle lock | Yes | Yes | Yes | Yes |
| Dust deflector only | Yes | Yes | Yes | No |
| Dust hood with spout | Yes | Yes | Yes | Yes |
| Max plunge depth | 60 | 75 | 50 | 62 |
| Collett chuck size | 1/4, 3/8, 1/2 | 1/4, 1/2 | 1/4 | 1/4 |
| Collets supplied as accessories | None | 6,8, 12mm, 3/8 | 3,6, 8mm, 1/8 | 3/8, 1/2, 10 & 12mm |
| Net weight (KG) | 6.2 | 5.7 | 3.3 | 4.8 |
| List price Ex. VAT. | 339.00 | 339.00 | 344.00 | 350.00 |

# Routers from £370-£395

| | FESTO | METABO | HITACHI | BOSCH |
|---|---|---|---|---|
| Router make | | | | |
| Model ref. number | OF2000 Plus | OFE1229 | M12V | GOF1700ACE |
| Watts imput | 1600 | 1200 | 1850 | 1700 |
| 230 Volt | Yes | Yes | Yes | Yes |
| 110 Volt | No | Yes | Yes | Yes |
| Fixed rpm | 25500 | No | No | No |
| Variable rpm | No | 5-25500 | 8-20000 | 8-22000 |
| Spindle lock | Yes | Yes | Yes | Yes |
| Dust deflector only | Yes | Yes | No | Yes |
| Dust hood with spout | Yes | Yes | No | Yes |
| Max plunge depth | 65 | 50 | 62 | 75 |
| Collett chuck size | 1/2, 8, 12mm | 1/4 | 1/4, 1/2, 3/8 | 1/4, 1/2 |
| Collets supplied as accessories | 1/4, 3/8, 10mm | 3, 6, 8mm, 1/8 | 6mm, 8mm | 6,8, 12mm, 3/8 |
| Net weight (KG) | 5.1 | 3.4 | 5.3 | 5.8 |
| List price Ex. VAT. | 370.00 | 371.00 | 389.00 | 395.00 |

## Where to Buy Cutters

**KWO TOOL (UK) LTD**
4 Strawberry Vale,
Vale Road,
Tonbridge
Kent TN9 1SJ

**Tel. 01732 364444**

**TITAN CUTTER**
M&M Distributors Ltd.,
PO Box 128,
Bexhill-on-Sea,
Sussex TN40 2QT

**Tel. 01424 216897**

**TITMAN TIP TOOLS LTD**
Kennedy Way,
Valley Road,
Clacton-on-Sea
Essex CO15 4ABT

**Tel. 01255 220123**

**TREND MACHINERY & CUTTING TOOLS**
Penfold Works,
Imperial Way,
Watford,
Herts WD2 4YF

**Tel. 01923 249911**

**WEALDON TOOL COMPANY**
31 Branbridges Industrial Estate,
East Peckham,
Kent TN12 5HF

**Tel. 0700 565000**

# Routers from £398-£449

| Router make | MAKITA | RYOBI | DEWALT | FESTO | METABO |
|---|---|---|---|---|---|
| Model ref. number | 3612C | RE600N | DW625 | OF2000E Plus | OF1612 |
| Watts imput | 1850 | 2050 | 1600 | 1800 | 1600 |
| 230 Volt | Yes | Yes | Yes | Yes | Yes |
| 110 Volt | Yes | Yes | No | No | Yes |
| Fixed rpm | No | No | 20000 | No | 24000 |
| Variable rpm | 9-23000 | 10-22000 | No | 12-22000 | No |
| Spindle lock | Yes | Yes | Yes | Yes | Yes |
| Dust deflector only | Yes | No | No | Yes | Yes |
| Dust hood with spout | Yes | Yes | Yes | Yes | Yes |
| Max plunge depth | 60 | 60 | 65 | 65 | 80 |
| Collett chuck size | 1/2 | 1/4, 3/8, 1/2, 8mm | 1/4, 1/2 | 1/2, 8, 12mm | 1/2 |
| Collets supplied as accessories | 1/4, 3/8 | None | 6, 8, 10 & 12mm, 3/8 | 1/4, 3/8, 10mm | 6, 8, 12mm, 1/4, 3/8 |
| Net weight (KG) | 6.0 | 6.2 | 5.1 | 5.1 | 5.0 |
| List price Ex. VAT. | 398.00 | 399.00 | 420.00 | 436.00 | 449.00 |

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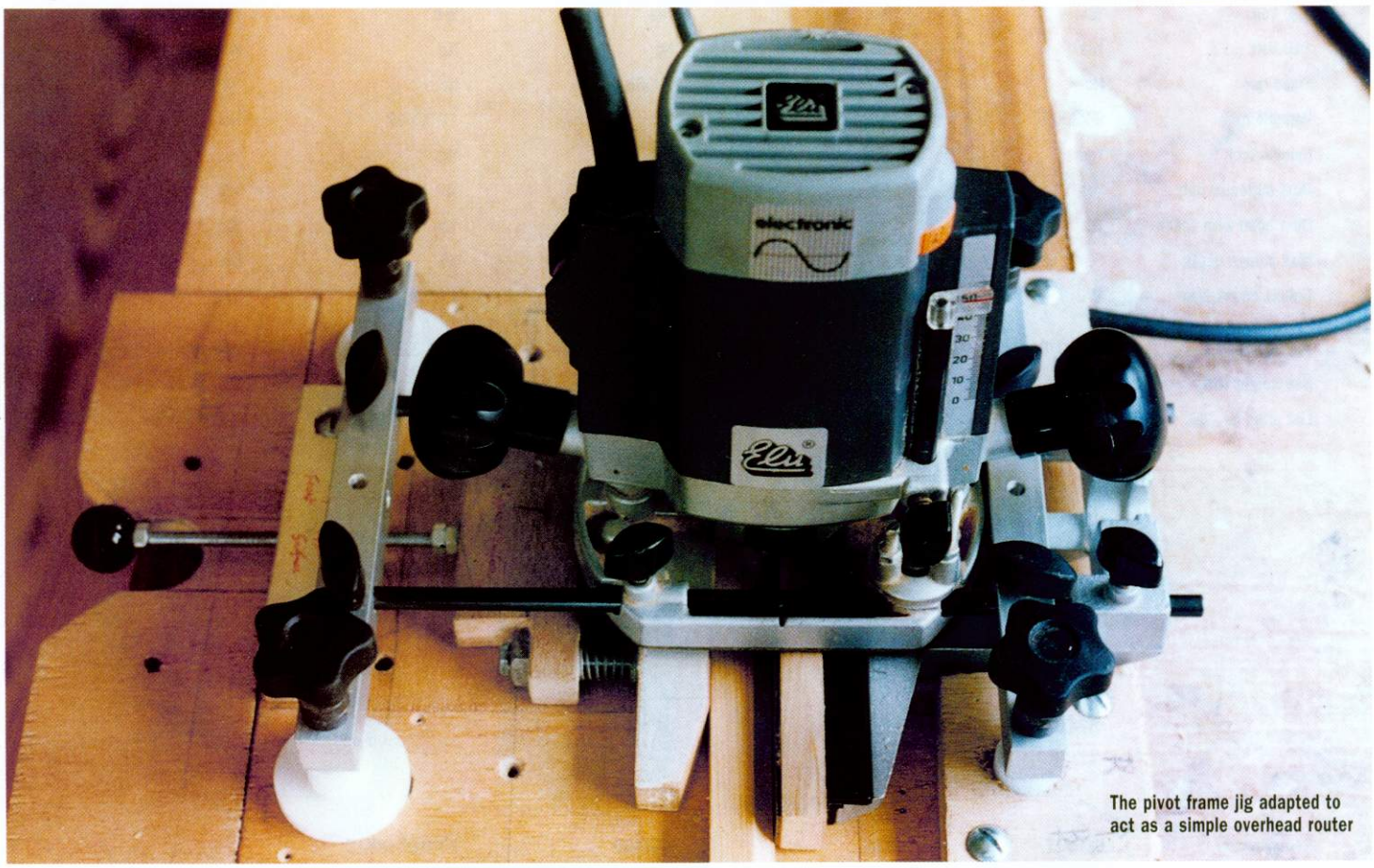
| Router make | DEWALT | ELU | METABO | PORTER CABLE |
|---|---|---|---|---|
| Model ref. number | DW625L | MOF 112 | OFE1812 | 7539 |
| Watts imput | 1850 | 2000 | 1800 | 2423 |
| 230 Volt | Yes | Yes | Yes | No |
| 110 Volt | Yes | No | Yes | Yes |
| Fixed rpm | No | 18000 | No | No |
| Variable rpm | 8-20000 | No | 8-22000 | 10-21000 |
| Spindle lock | Yes | No | Yes | No |
| Dust deflector only | No | No | Yes | No |
| Dust hood with spout | Yes | No | Yes | No |
| Max plunge depth | 65 | No | 80 | 76 |
| Collett chuck size | 1/4, 1/2 | M12x1 | 1/2 | 1/2 |
| Collets supplied as accessories | 6, 8, 10 & 12mm, 3/8 | 6, 8,10 & 12mm, 3/8 1/2 | 6, 8, 12mm 1/4, 3/8 | 1/4,3/8, 6, 8,10,12mm |
| Net weight (KG) | 5.1 | 7.3 | 5.1 | 7.8 |
| List price Ex. VAT. | 450.00 | 465.00 | 512.00 | 514.00 |

# Pivot frame jig for mouldings




The pivot frame jig adapted to act as a simple overhead router

## Innovation is the name of the game, as David Ford explains

I surround most of my decorative panels with mouldings and, as I have neither a router table nor an overhead router, I have adapted the pivot frame jig to act as a simple overhead router. This works very well for my needs. The wood for moulding is pushed between the router fence and a homemade spring-loaded guide with the router cutting from above.

### One step at a time

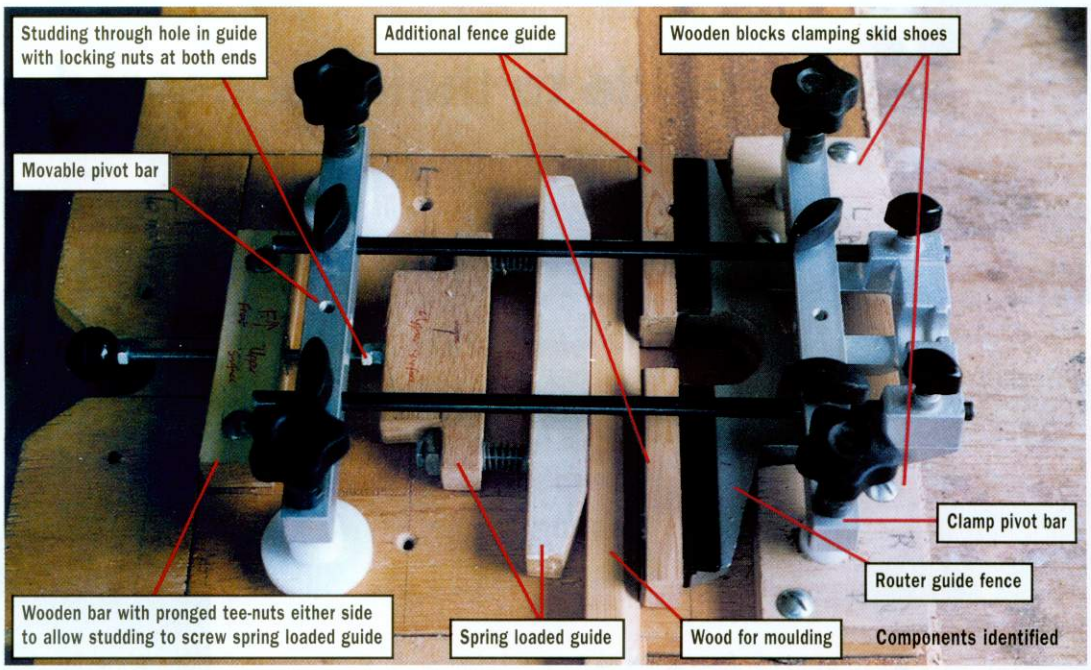
The following shows how the router is set up and used in this overhead mode. The parts for this jig are fitted onto a board which is held rigidly onto a work bench either by clamps, or in my case by adding a strip of wood on the underside which fits into the vice on the front of the bench.

First to be fitted to the board is the homemade spring loaded guide. This guide (Fig.1) can move towards and away from the router guide fence by a screw mechanism. This mechanism is a length of 6mm studding from the pivot frame jig kit with the knob and locking nut at one end. The studding passes through two pronged tee-nuts fixed one to either side of a short clamped wooden bar and finally through a hole in the spring-loaded guide. The studding can rotate in the guide by the addition of locking nuts at each side of it. The short wooden bar is clamped to the board by 6mm bolts and pronged tee-nuts. Two pronged tee-nuts are shown in the photographs. The upper tee-nut is viewed from above while the lower from below. These tee-nuts can be obtained in some hardware shops, but are available by post from Screwfix, telephone 0500 414141. The router guide fence has an additional wooden fence edged with plastic laminate screwed along its front. If this fence is missing it would not be possible to rout along the side of the timber, for reasons which will be apparent later.

Two of the nylon skids, with their lengths of protruding studding from the pivot frame kit, are then clamped to the board by wooden blocks. The blocks have drilled out undersides, which fit

Two pronged tee-nuts

snugly over the skids and are held in place by bolts that fit into 6mm pronged tee-nuts fitted to the underside of the board and can easily be removed when the routing is complete. The parallel rods are then fitted through the router base to extend roughly equally both sides. The pivot bars are added to the rods either side of the router as seen in photographs. One of the pivot bars is clamped to the board while the other is movable. The ends of the movable pivot bar are fitted with the nylon skid shoes using parts from the pivot frame jig. The other pivot bar is then lowered onto the clamped nylon skids and clamped by the addition of thick washers and the shoe locking knobs.




## Flexibility

Different depths of wood can be accommodated by changing the number of shoe spacers between the nylon skids and the pivot base. For most applications I require a single shoe spacer.

In use, I adjust the router's original guide fence with the attached additional wooden fence to give the correct position for the required moulding. If this additional fence is missing it would be impossible to rout along the edge of the timber because the clamped pivot bar gets in the way and prevents the original guide fence sliding sufficiently far along the router guide rods to be directly under the router cutter. The wood for routing is placed between the additional guide fence and the spring-loaded guide. The spring-loaded guide is screwed against the wood so that the wood can still be pulled quite freely between the fence and the guide. The wood is removed, the router bit lowered to the correct depth, the router turned on and the wood fed through.

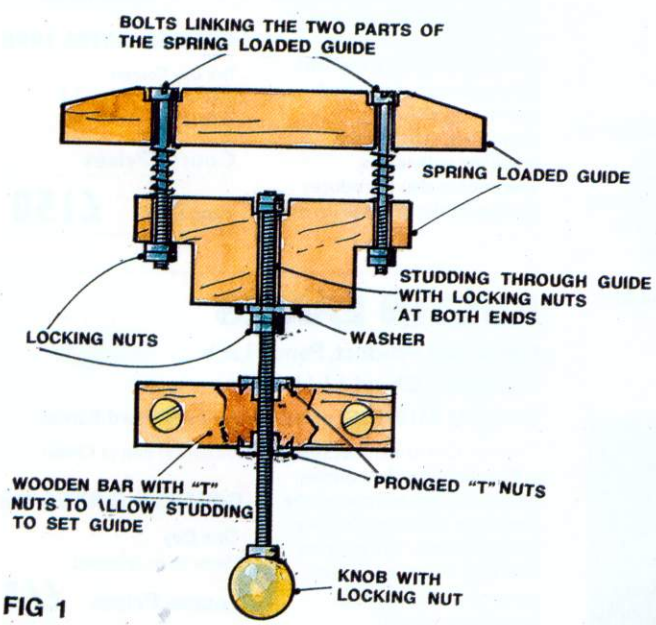
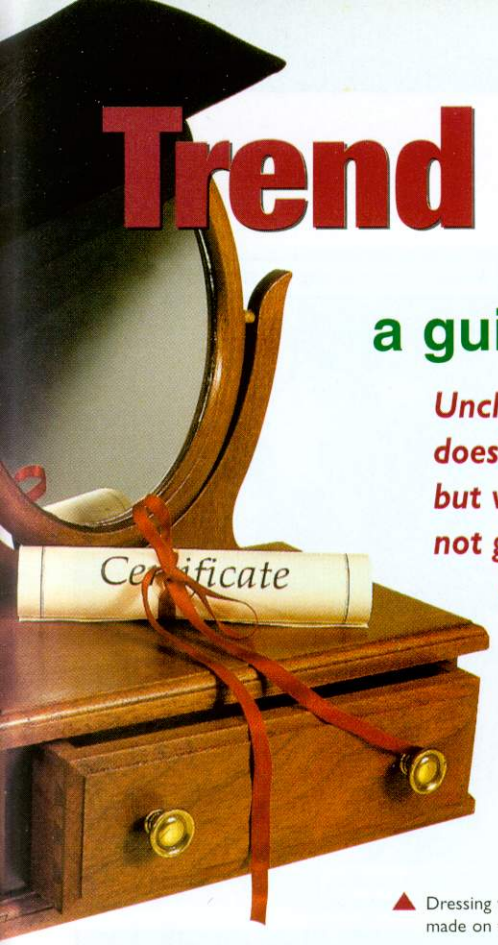



FIG 1

# Trend puts you on Co

## a guide to their sponsored routing courses




▲ Dressing table top drawer and mirror made on the Craft Supplies course

***Unclear about what a router does? Do you know a little but want to know more? Why not go on a routing course and release those hidden woodworking talents. Here is a quick guide to Trend's sponsored routing courses.***

### NORTHERN CRAFTS & POWER TOOL CO.

Northern Craft & Power Tool Co. Ltd.

**214, Waterloo Road, Blackpool, Lancs, FY4 3AB**
**Tel: 01253 400066 Contact: Alan Goodwin**

**Course Details:** Located close to Blackpool town centre and British Rail stations. Two 2 day courses are provided, the basic course dealing with router control, safety and discipline. The advance course deals with more advanced techniques and jigs.
Accommodation can be arranged by the course organiser who also provides lunch and refreshments.
Other courses also available.
**Lecturer:** Paul Wenlock

**COURSE DATES 1998**
*Two Day Courses*
Aug 3-4, 10-11, 17-18, 24-25
Sept 7-8, 14-15, 21-22, 28-29

**Course Prices**
*Two Day* **£150**

**FREE**
**£25 voucher**
for all course students
Redeemable towards the cost of any products sold by Northern Craft & Power Tool Co. Ltd

### ROY SUTTON'S
**Routing Courses at the Apple Craft Centre**

Apple Craft Centre

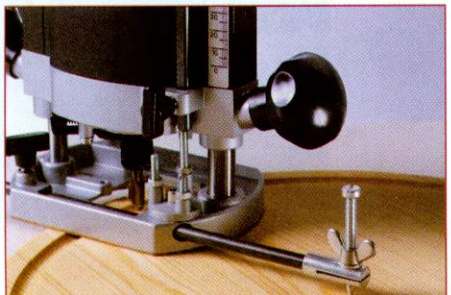
**Selling Road, Macknade, Faversham, Kent ME13 8XF Tel: 01227 373297**
**Contacts: Roy Sutton/John Farrington**

**Course Content:** Set amongst the farmlands and oasthouses of Faversham Kent, this one-day course continues its traditional format of router use and safety, encouraging confidence in students, combining expert lectures, videos, slideshows and practical router use.
Personal tuition is available as well as on site turning courses. The showroom is well stocked with machinery, cutters, jigs, timber and all types of woodworking accessories.
Gallery, restaurant and farm shop are on site.
**Lecturer:** Wayne Crickmore

**COURSE DATES 1998**
*One Day Courses*
Aug 15

**Course Prices**
*One Day* **£60**

**FREE VIDEO**
for all course students



Routing with a beam trammel ▶

### CRAFT SUPPLIES ACADEMY

Craft SUPPLIES

**The Mill, Millers Lane, Dale, Nr Buxton, Derbyshire SK17 8SN**
**Tel: 01298 871636 Contact: Eve Middleton**

**Course Content:** Situated in the heart of the Peak district, this two day course features an introduction to the router, associated safety aspects, features and accessories. The project involves the construction of a dressing-table top drawer with elliptical pivot-hung mirror (see picture top left). It incorporates hand-held operations, tenoning, dovetailing, rebating and moulding techniques.
The course also introduces the use of the dovetail jig, the ellipse jig and table routing.
Accommodation is available on site. Other courses are also available and students can take advantage of the book and video library, the crafts gallery and showroom.
**Lecturer:** Bob Lambert

**COURSE DATES 1998**
*Two Day Courses*
Aug 12-13 Sept 2-3
Oct 1-2 Nov 3-4

**Course Prices**
*Two Day* **£150**

### AUSTIN EAMES

Austin Eames Woodworking

**Plas Acton Precinct, Pandy Lane, Wrexham, Clwyd, LL11 2UB**
**Tel: 01978 261095 Contacts: Peter or Richard Eames**

**Course Content:** Located in North Wales the courses attract novices to routing, the basic user and those wishing to learn more. The courses deal with health and safety, types of cutters and jigs, template work and maintenance.
**Lecturer:** Emrys Owen

**COURSE DATES 98**
*One Day*
Dates to be arranged

**Course Prices** **£65**

# rse

## n the UK

## EDINBURGH'S TELFORD COLLEGE

**Crewe Toll, Edinburgh, EH4 2NZ** Tel: 0131 332 2491 Ext. 2229

**Contacts: Stuart Telford/Derek Brown**

**Course Content:**
Edinburgh's Telford College have 3 different one-day courses. 'Basic Routing' describes the versatility and accuracy of the hand-held portable router, covering basic principles, uses, features and safety. The second course takes routing to a more advanced level and introduces the router table and the various multi-functional jigs. The third course, designed for trades people, demonstrates commercial jigs manufactured for trade and industry i.e. the stair jig, hinge jig and kitchen worktop jig.

**Lecturers:** Stuart Telford & Gregor Allen

**COURSE DATES 98**

*One Day Courses*
Aug 27

**Course Prices**

| | |
|---|---|
| *One Day* | £75 |

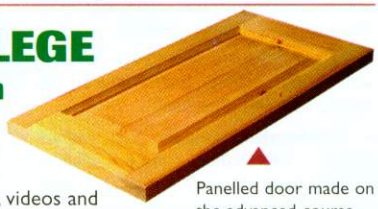
*Basic/Advanced/Trade*

## OAKLANDS COLLEGE
### School of Construction

**St Peters Road, St Albans AL1 3RX**
**Tel: 01727 737213 Contact: Jeanne O'Reilly**

**Course Content:** Situated in the town centre of St Albans, close to British Rail station, Oaklands elementary course designed for the beginner deals with router safety, its uses and cutters available. The two-day course, targeted at the professional and the ambitious amateur, takes the art of routing a stage further giving a broader look at the advantages of table routing, the benefits and precision of the routing jigs. All students can expect a full day of lectures, videos and practical router use. Both courses are project based.

**Lecturers:**
Ken Moorton & Bruce Marsh



Panelled door made on the advanced course

**COURSE DATES 98**

*One Day* *Two Day*
Dates to be arranged

**Course Prices**

| | |
|---|---|
| *One Day* | £81 |
| *Two Day* | £148 |

**FREE VIDEO**
for all course students

## JOE GREENERS HIREPLACE

NEW

**Valley Street, North Darlington, Co. Durham, DL1 1PZ**
**Tel: Freephone 0800 7312145**
**Contacts: Joe or Andy Greener**

**Course Content:**
Situated close to Darlington town centre and main line stations.
One day course designed for those new to routing dealing with safety, basic techniques, hand-held and hands-free routing.
Two day course is based on the professional user and offers more advanced techniques and the use of templates and jigs.
Other courses are available along with personal tuition.
Accommodation available within easy walking distance.

**Lecturer:** Paul Wenlock

**COURSE DATES 98**

*One Day* *Two Day*
Dates to be arranged

**Course Prices**

| | |
|---|---|
| *One Day* | £75 |
| *Two Day* | £150 |

## WOODCRAFT TRAINING

NEW

**50 West Street, Isleham Nr Ely Cambridgeshire CB7 5SB**
**Tel: 01638 780978 Contact: Mike Humphrey**

**Course Content:**
Woodcraft training offer their internationally renowned courses.
Three one day courses are available basic-intermediate, advanced and trade dealing with safety and basic techniques to table routing and jig making through to the advantages of using trade jigs.
All courses are practical 'hands on' and are very intensive.
Emphasis is placed on technique giving the student maximum knowledge and practical skill.

**Lecturer:** Mike Humphrey

**COURSE DATES 98**

*One Day*
Dates to be arranged

**Course Prices** £70

*Basic/Advanced/Trade*

## NEATH COLLEGE

**Dwr-y-felin Road, Neath, Wales**
**Tel: 01639 634271**
**Contacts: Dylan Wyn James, Wyn Pritchard**

**Course Content:**
*Beginners Course:*
*(One day)*
Deals with router safety, control and discipline, hand-held and hands-free routing, basic routing principles and techniques.
*Professional Course:*
*(Two day)*
Targeted at those wishing to broaden their routing knowledge using advanced techniques and precision jigs.
Trademans routing course available on request. Hands-on demonstrations using trade jigs.
Other courses are also available.

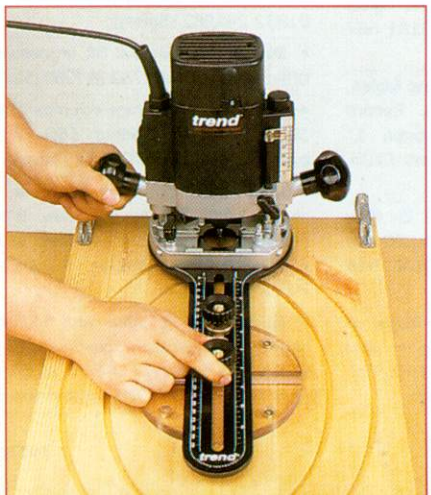
**Lecturer:** Dylan Wyn James

**COURSE DATES 98**

*One Day* *Two Day*
Dates to be arranged

**Course Prices**

| | |
|---|---|
| *One Day* | £65 |
| *Two Day* | £130 |




Using the Trend Mini Ellipse Jig

## YANDLES of Martock

**Martock, Somerset** Tel: 01935 822207
**Contacts: Beverley Mansfield/Ann Pain**

**Course Content:** Yandles woodworking centre are running two routing courses. The Basic course is designed for those new to routing and takes students through general router uses and step by step working procedures introducing cutters and their uses as well as cutter care. The Advanced course is for those wishing to benefit from purpose designed routing jigs and template work and experience the advantages of table routing. Turning course also available. Lunch is included in the course price.

**Lecturers:** John Parslow

**COURSE DATES 1998**

*One Day*
Aug 12, 15 & 22

**Course Prices**

| | |
|---|---|
| *Basic/Advanced* | £55 |

Prices correct at time of going to press, but are subject to change. Please contact individual colleges for current prices, dates of courses and further information.

All courses sponsored by **trend®** routing technology

# Market Place 01322 660070

## FOR SALE

• **Triton Workcentre** Mark III brand new unopened £160. Extension table unopened £85. Tel. 0973 384259/ 01444 459425.

• **Trend Routergraph**, as new condition, with follower pins, suit Elu 96, 97 etc, plus others, £280.00 ono. Tel. 01704 872558 after 6pm or 01772 251520 daytime and ask for David.

• **Record woodturning lathe.** Little used so good condition £170. Tel. 01707 265770 (Herts).

• **Woodworker magazines** 1982-1983-1987 to 1993. All 9no. complete. 1986 except Jan, 1952 except Dec. 32 other ones. £25.00. Tel. 01249 713187 (Wilts).

• **Record No. 8 jointer plane**, good condition £100. Tel. 0181 892 3312 daytime, 0797 062 8419 evening (Twickenham).

• **Record multi plane** No. 405, 23 tungsten cutters, original box, instruction book £140. Tel. 01773 761570 (Nottingham).

• **APTC 1000 dust extractor**, as new, surplus to requirements. Ideal for small workshop £120 o.n.o. (N. Beds.).

• **Desoutter 2 speed** electric drill, collector's item £50. Buck & Hickman converted engineering lathe, 48" centres, 12" swing plus many accessories. Offers invited. Tel. 01588 673227 (Shropshire).

• **"The Woodworker"** 1990-1995, "Practical Woodworking" 1986-1996. Issues 1-8 "Routing", "Good Woodworking" 6 issues 1997. Buyer collects. £40. Tel. 01943 607333 (W. Yorks).

• **Disposing of private collection**. Early woodworking books, catalogues, 19th century tools, Stanley 55 with alternative cutters almost unused. Tel. 01264 324420 (Hants).

• **Coronet lathe** Elf 30" between centres, 4 speed, 13 chisels, rigid iron end uprights, good condition £350. Tel. 0171 266 1065 (N.W. London).

• **Coronet No. 3 lathe**, large bowl turning extra fitting, excellent condition. Can be seen working, £450. Tel. 01299 270575 (S. Shropshire).

• **Scheppach TS2000** base sliding table extension tables, unused £700. Complete kit electronic controller, 1HP motor for Jubilee lathe, v.g.c. £250. Tel. 01925 210753 (Cheshire).

• **Large parcel** wood veneers, mahogany, oak, walnut etc. Suitable marquetry, also making and repairing furniture. Can deliver. £18. Tel. 0118 987 1156 (Berks.).

• **Triton Mark III**, brand new, unopened £160. Extension table, new also, £80. Tel. 0973 384259 (W. Sussex).

• **Luna spindle moulder**, single phase, excellent condition £500. Sliding table and tennoning table also available. Can deliver south west area. Tel. 01823 680676 (Devon).

• **DeWalt Sawking** tablesaw, 240 volt amateur usage, as new, moved, need space £280 o.v.n.o. Tel. 0181 550 0318 evenings (Barkingside, Essex).

• **Multico MB5** moulding block, 1" bore with cutter setting gauge. Offers. Tel. 01642 469249 (Cleveland).

• **Woodworker Annuals** (12) various dates 1924-1882. Also Collins Woodworkers Manual, plus Complete Book of Tools - woodworker's bible (USA). Lot - no split £80. Postage etc at cost. Tel. 01392 860182 (Exeter, Devon).

• **Ancient pillar drill**, ⅓HP motor, good working order, offers. Tel. 01474 824344 (Kent).

• **Startrite planer** thicknesser 12x9, single phase, soft start, three blade cutter block, excellent condition, offers tel. 01782 303975 evenings (Stoke-on-Trent).

• **Clarke 10" table saw** CTS 10B on stand, as new £130. B.D. bandsaw BK3 - disc sander, as new £80. Drill pres 12 speed ⅝ chuck £115. Cross vice, boxed £30. Mortice attachment ½ chisel, boxed £25. Tel. 01427 881165 (N Notts).

• **Clarks 5 speed** pillar drill, ½in capacity, excellent condition £25. Tel. 01564 775393 (Solihull, W. Midlands).

• **APTC 12" x 6"** portable thickness planer, little used, with spare blades £120. Tel. 01327 877940 (Northants).

• **Triton MkII** extension table, as new, to fit MkII workcentre £65. Tel. 01924 407168 (W. Yorkshire).

• **Stanley 3 blade** plough plane 13-030, never used, still boxed. Dixon moulding plane, nine blades, old but good. Offers 01483 223840 (Surrey).

• **Startrite SP175** sawbench, variety TCT blades £475. Fercell dust extractor £125. All excellent condition. Tel. 01404 812198 (E. Devon).

• **2 strong workbenches**, 2" thick top. Mortice and tenon jointed. £55 each or £100 the two. Tel. 01924 464786 (Yorks.).

• **Slot morticer attachment** for Elu planer thicknesser with four chisels. New, boxed, cost £250 accept £175. No offers please. Jct 25/M25. Tel. 01992 638946 (Herts).

• **Nutool woodworking lathe**, 37" centres, v.g.c. 4 jaw chuck, chisels etc. £100 buyer collects. Tel. 01255 421774 (N.E. Essex).

• **Extension table** for Triton Mk3 workcentre, boxed and unused £65 o.v.n.o. Tel. 01376 349060 (Essex area).

• **Seasoned virgin oak** ⅝"x12"x9½', ⅝"x12"x11'. Reclaimed oak two ¾"x5"x8', two ¾"x5"x6' plus other hardwood £50 o.n.o. Tel. 01424 437117 (Hastings, Sussex).

• **Meddings Mk III** fretsaw/jigsaw 24" throat bench mounted industrial model, good working order, £250 o.v.n.o. Tel. 01628 632904 (Berkshire).

• **Wadkin 24"** cast iron circular saw, rise and fall with 3-phase motor. £400. Tel. 01689 836505 (Kent).

• **Shopsmith 18" jigsaw** for Mark V. Good condition £130. Tel. 0181 942 3253 (Surrey).

• **Elu radial arm saw** with legs 1251, nearly new, used twice, £495. Tel. 01903 762388 mornings or evenings (W. Sussex).

• **Mini Mach vacuum** clamping bed, new, hardly used £75 o.n.o. Sears ribbed aluminium router table with cutter guard, adjustable fence and table inserts £35. Tel. 01442 234253 (Herts).

• **8" surface planer** £135, Burgess BK3 3 wheel bandsaw £60. Evenwood 16" 3ph saw, 33" x 33" cast iron table £295 o.n.o. Kity CK26 4 combi saw, planer thicknesser, moulder, mortiser and spares. Offers. Tel. 01246 232230 (Derbys).

• **Luna combination** 3 motors 10x8 P/T 12" saw, 3 speed spindle, sliding carriage, slot morticer, spare blades, knives and spindle tooling, cast beds £1,400. Tel. 01889 566301 (Staffs).

• **Kity combination** planer thicknesser saw, spindle moulder, morticer £500 o.n.o. Tel. 01305 871672 (Dorset).

• **Delta scrollsaw** 40-560 16", 2 speed, new, unpacked £135. Tel. 01803 323617 (Devon).

• **Freud FS40M** multi profile cutter T.C.T. for spindle moulder, 30mm bore, produces 40 profiles. As new condition £65. Tel. 01497 847065 (Hay-on-Wye).

• **Coronet Consort** universal woodworking machine comprising saw, planer thicknesser, mortising belt, sanding and combing attachments. Excellent condition £460. Tel. 01268 729581 (Essex).

• **Elektra Beckhum** PK250 precision saw bench, will cut up to 82mm. Very little use £500. Accessories available if required. Tel. 0181 857 6618 (London SE).

• **Elu MH182** 8½" circular saw, hardly used, still in box. £100. Tel. 0181 687 0233 (London area).

• **Multico morticer** 440v sliding tables, v.g.c. with 3 chisels £325. Record Ridgeway BM75 240v morticer, 1" capacity, sliding table, 2 chisels £225. Tel. 01889 566301 (Staffs).

• **Bosch GST 97 jigsaw**, £110. Elu 9.6v drill £80. Bosch drill £20, Skil 1850 saw £90, Clarke drill £25. Tel. 0141 944 4080 (Glasgow).

• **De Vilblis Aerograph Sprite Major** air brush set with Hobbit compressor. Suit model/dolls house maker. £95. Tel. 01753 864256 (Windsor, Berks).

• **Sawblades TCT** 10 inch new unused, have upgraded to 12 inch saw. 24 teeth, Elu Freud Record makes 30 teeth £30 each o.n.o. Tel. 01452 538546 (Gloucester).

• **Kity 513 bandsaw**, 1½HP, 1ph, capacity 200mm height, 300mm width. Mitre fence. V.G.C. £300. Tel. 01509 646076 (Leics).

• **Tormek 2004** new Jan 1998 with unused jigs. ADV50D SVH320 diamond truing device, plane,r plane jig £350. Tel. 01452 538546 (Gloucester).

• **Stanley No. 50** combination plane. Seventeen cutters for plough dado beading tongueing. Never used. £50. Tel. 01939 200247 (Shropshire).

• **Tyme Avon 36"** lathe, bowl/short/long rest/faceplate. Multistar chuck 4 different jaws, pinchuck, faceplate, faceplate ring, screwchuck, all to fit above £385. Tel. 0181 660 2972 (Purley, Surrey).

• **Burgess BK3** plus bandsaw with sander, as new £85. Tull international 12 speed drill press 16mm Ck, new £110. Morticing attachment 1/2 chisel £25. Clarke 10" tablesaw on legs NE £150. Clarke 4" cross vice new £30. Bosch 5" double ended grinder £20. Nutool mitre saw £15. Tel. 01427 881165 (Notts).

• **Elu MVS 156** one third sheet sander and dust bag £38. Makita palm sander £17. Tel. 01908 376966 (North Bucks).

• **Record CL5 lathe** £175. Tel. 0151 327 3241 (Wirral, Merseyside).

• **Union Graduate lathe**, 42 inch centres with extras £1,500. Tel. 01244 537763 (Chester).

• **Record CL1** 36"x15" wood turning lathe, complete with bowl turning attachment and RP300X Record power chuck £185 o.n.o. Tel. 01202 418135 (Dorset).

• **Bosch GHO** 31-82 plus thicknesser as new £175 o.n.o. B&D drill stand plus vice £10. Tel. 01253 875302 (Fylde, Lancs).

• **Ryobi scroll-saw** Model SC160 16" throat, tilting table £75. Carbatec thread master two lead-screws 10 TPI 16 TPI used once for special project £60. Tel. 01932 241982 (Surrey).

• **20 ash logs** 5inch x 6ft unseasoned. Offers wanted. Tel. 01782 317250 (Staffs).

• **The Woodworker**, nine volumes 1988, 1997 some in binders £50. Buyer collects. Tel. 01626 354087 (Devon).

• **Bench drill** with rise & fall table, ½" chuck £125. Delta bandsaw 6"x4" disc/belt sander on cabinet stand £225 excellent condition. Tel. 01379 741086 (Norfolk).

• **Record No. 2** lathe with Multistar chuck, both excellent condition £350. Warco 314 bandsaw, 14" throat, 5" cut £50. Tel. 01285 712531 (Cirencester).

# Market Place 01322 660070

• **Plano's for laminating** wooden panels £45 each. Mahogany large quantity of good size off cuts, approx 4 cubic metres. £295 o.n.o. Tel. 01427 891914 or 0860 151754 (Doncaster).

• **Woodrat** v.g.c. £150. Racal Dustmaster as new £100. Tel. 01273 272889 (Brighton).

• **Universal wood** working machine, Lurem C210B saw/planer/thicknesser/spindlemoulder and mortiser, single phase, excellent condition, reasonable offers. Tel. 01332 875072 (Derby).

• **40 beechwood** moulding planes. 18" dia. wetstone tool grinder, floor stand with water trough, single phase motor. Tel. 01282 423780 (Lancs).

• **Engineer's benchtop lathe** 240v, woodturning accessories, 24" centres, faceplates, chucks, cutters £395 o.n.o. Tel. 01203 449014 (Coventry).

• **Japanese horizontal wetstone** grinder, little used, original cost £230, will accept £50 for quick sale. Tel. 01332 780966 (Derbyshire).

• **Woodworker magazines** 338 1953 to 1987 plus 43 other books, £55 buyer to collect. Tel. 01257 423360 (Manchester).

• **Woodrat with plunge bar**, one year old, hardly used. Willing to exchange for Leigh jig equivalent value. Tel. 01732 366166 (Kent).

• **Workshop clearance**, all three phase, Multico morticer with chisels £250, Wadkin spindle moulder £250, old machines in working order. Tel. 01275 375663 (Bristol).

• **Multico mortising machine** M1. Floor standing, single phase, full set chisels and stones ¼" to 1". £500. Tel. 0192 576 2361 (Cheshire).

• **Bound Woodworker** magazines 1982 to 1991. September 1988 missing otherwise complete. £25. Tel. 01372 275835 eves (Ashtead, Surrey).

• **Dominion rip saw** 25" blade, rise and fall, long table. Choice of motors £250 o.n.o. Please ring 01568 770633 (Herefordshire).

• **Coronet Major** on stand 10" table saw with new TCT blade, 4½" planer thicknesser, morticing attachment with chisels, good condition £400 o.n.o. Tel. 0113 263 7201 after 5pm (Leeds, Yorks).

• **Makita table** saw c/w TCT blade, mitre fence, stand, G.W.O. Buyer collects £160. Tel. 01703 841018 (Southampton).

• **Woodworking lathe**, Coronet Elf for sale £250. Tel. 01782 333042 (Stoke-on-Trent).

• **Coronet lathe** with swivel head, saw, planer, mortising attachment on wooden bench, v.g.c. £225. Tel. 01223 244425.

• **Pair of TCT planer blades**, sixe 260mm x 20 x 2.5 (Kity 10"). Very little use £55. Tel. 01458 252179 (Somerset).

• **Inca 10 table saw**, Roybi morticer, Sealy 48" bed lathe, Elu routers, planers, sanders, Record 12" bandsaw. Comprehensive workshop for sale. Tel. 0113 285 3688 (Leeds).

• **Multico PM12 morticer** plus ½ chisel & bit, very good order £175 o.v.n.o. Tel. 01376 349060 (Essex area).• Mortice machine for blue Coronet Major, complete with mortice cutters ¼. ⅜. ½. ⅝ plus slot mortice cutters ⅜. ½. ⅝. ¾. £75. Tel. 01937 585393 (Yorks.).

• **Woden woodworking** vice, 10½" jaws, open 15" quick release, very strong, £60. Large cast iron mitre clamp, opens to 4". Tel. 01656 786324 (Mid-Glamorgan).

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• **Electra Beckum** HC260 planer thicknesser, must be in good condition, 240v. Tel. 01395 443402 (Devon)

• **Woodworking lathe** 36" between centres, 14" or 16" bowl turning attachment, single phase. Tel. 01933 227779 (Northants).

• **240v planer/thicknesser** in good condition 10x8" or larger preferred (cash). No dealers thank you. Ring Mr Smith 01952 550652 6pm-10pm (retired) (Shropshire).

• **Large universal wood working machine** wanted. Preferably single phase. Tel. 01794 340296 (Hampshire).

• **Marno dovetailing machine** introduced 1934. Research requires seeing, also possibly buying. Contact Marno, Ty-Wati Rhandirmwyn, Llandovery, Carmarthenshire SA20 0NR. Tel. 01550 760206.

• **Butt hinges**, marking gauges made by Stanley Eclipse and others. Tel. 01663 764014 (Cheshire).

• **Apollo professional** or Woodpecker variable speed lathe. Tel. 01480 860830 or write to 5 Newtown, Kimbolton, Cambs PE18 0HY.

• **Myford ML8 tailstock**, saddle, rest, faceplates, clamps, saw attachment with anything that will help to build up my first lathe, plus turning tools. Reasonable prices please. Tel. 01823 279901 (Somerset).

• **Plans for Herald wooden clock**. Please phone with details and price. Tel. 01642 469249 (Cleveland).

• **Planer thicknesser** single phase. Tel. 01246 220391 (Derbyshire).

• **Variable speed Hegner** fretsaw. Tel. 01423 884739 (N. Yorks).

• **Wooden moulding planes**, back issues of The Woodworker magazines. Tel. 01253 894396 (Blackpool).

• **Woodworking hand tools** wanted by collector, single items or complete kits. Please tel. 01780 751768. No. 10 Ayr Close, Stamford, Lincs. PE9 2TS. Thank you.

• **Wadkin RS6 wood lathe** with compound slide, hand tool rest, face plates. Cash. Tel. 01636 815447 (Notts).

• **S.N. Bridges power drill**, Model MK1 225 watts for Bridges home workshop. Tel. 0141 563 3757 (Glasgow).

• **TCT saw grinder**, for sharpening tipped saw blades, Autool, Volmer or similar. Also phase converter. Will collect, pay cash. Tel. 01782 330894 (Staffs).

• **Scheppach or Kity** 10/12" sawbench in good working order. Collection and cash for fair priced model. Tel. 01705 667300 (Hants).

• **Triton work centre**, series 2000 or 3000 complete with router, jig saw table and stand. Tel. 01254 812326 (Blackburn).

• **Wood working hand tools** wanted by collector. Single items or complete kits. Please tel. 01780 751768 or write No. 10, Ayr Close, Stamford, Lincs PE9 2TS.

• **Woodrat** in good condition or Leigh dovetail jig. Tel. 01339 886466 (Aberdeenshire).

• **Hegner or Diamond fretsaw**. Tel. 01959 700598 (Bromley, Kent).

• **T/A saw bench**, bandsaw, morticer, spindle moulder, 10x8", 12x8"/9" planer thicknesser. Tel. 01992 441685 (Herts).

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*This space is only available to private individuals wishing to buy or sell woodworking machinery and tools up to the value of £500. Each insertion is free.*

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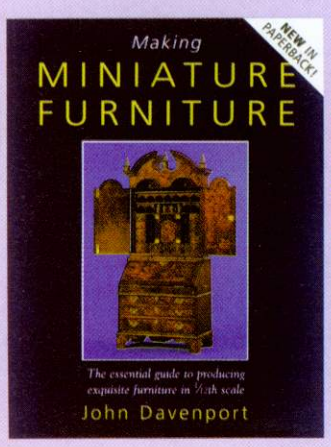


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# Routing

**On sale 15th October 1998**

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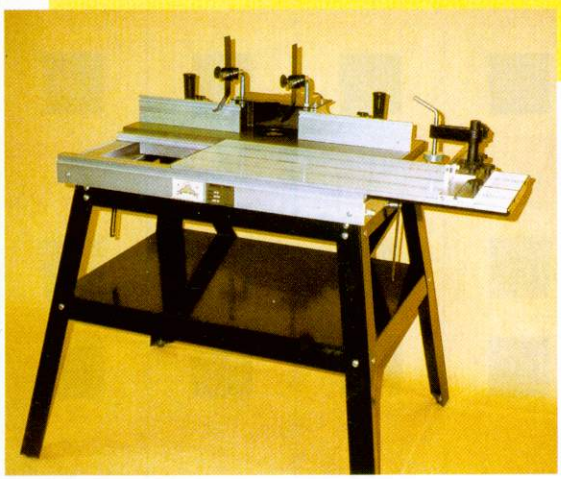
Ray Everest shows how to carve out a name board

## Mobile hostess

Betty McKeggie designs a useful item for the kitchen

## Pine linen box

John Todd creates a classic design



## On Test

Zach Taylor tests the latest router table from Woodcut

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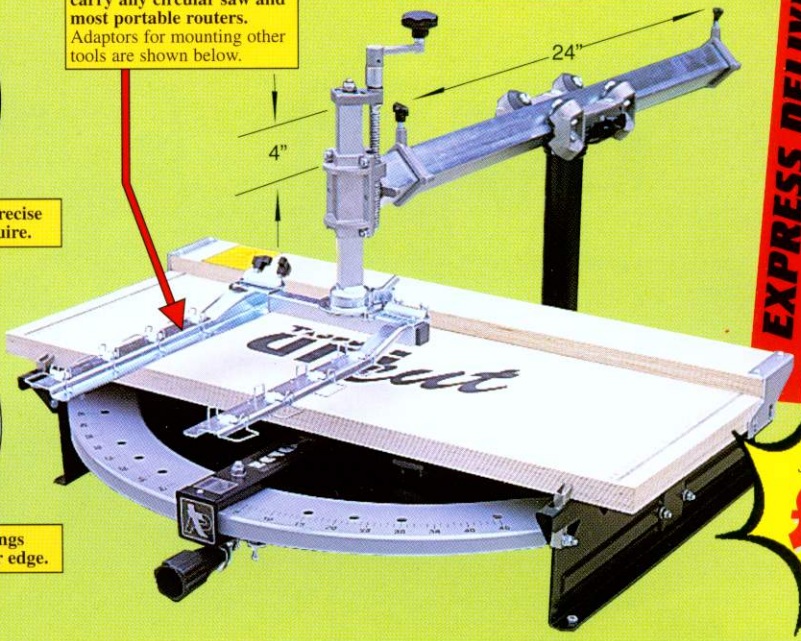


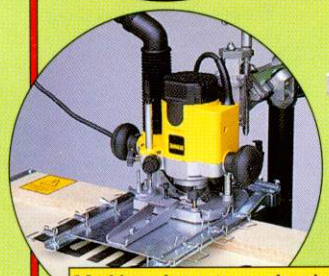

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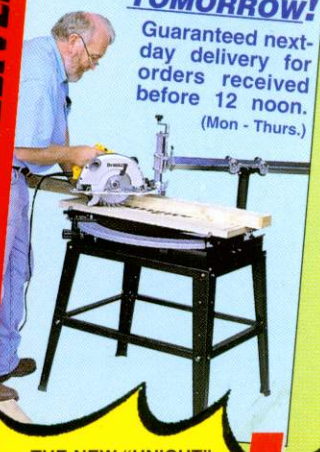

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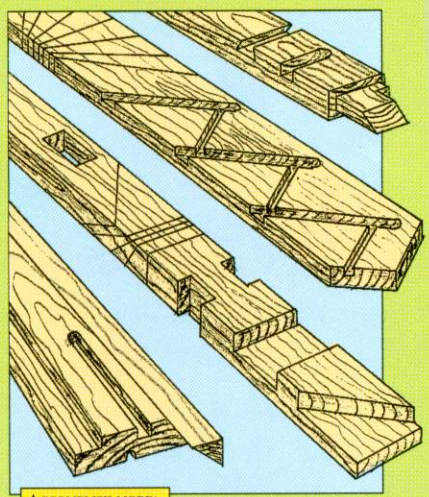

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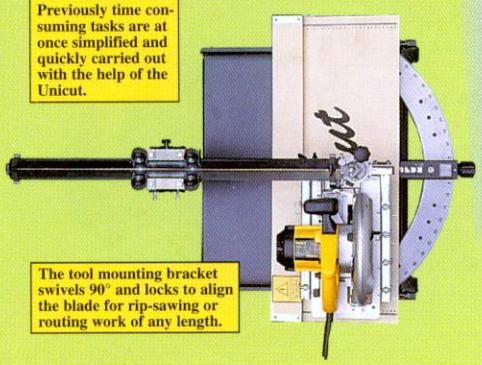

The tool mounting bracket swivels 90° and locks to align the blade for rip-sawing or routing work of any length.

**Radial arm adjustment:** 45°- 0°- 45° (0,15,22½,30 & 45° pre-sets)
**Crosscut stroke:** 0 - 24" (620mm) with adjustable travel stops
**Vertical adjustment of toolholder over table:** 0 - 4" (100mm)
**Swivel adjustment of toolholder for longitudinal feed:** 90°
**Table size:** 32"x 12" (810 x 305mm) with dual scale graduations
**Fence:** 32"x 4"x 1" (810 x 100 x 25mm), adjusts across table width
**Weight (machine):** 40lbs (18kg); **optional floorstand:** 24lbs (11kg)

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We are delighted to offer you this marvellously versatile new machine, the "Typhoon Unicut". You will see that it combines many of the virtues of the most useful power tools and workshop machines in a single unit. It is also very simple to use.

A portable circular saw for example is ideal for reducing large workpieces to manageable sizes but cannot be relied on for cutting finished project components (especially small ones) to the exact dimensions and angles you require. Mounted on the Unicut however, your portable saw becomes a precision tool for just this purpose. For this reason alone, at a VAT inclusive cost of less than £200, the new machine is fantastic value. (Currently, a mid-priced radial arm saw costs around £1000 and requires more-or-less permanently dedicated workshop space.) But the Unicut does indeed bring you much more:

Interchange the saw for a router and you have an overhead, radial arm routing facility that is perfect for machining rebates, grooves, stair strings, mortise and tenon joints, stopped housings for shelves, and so on –all without additional jigs or templates. You can even mount an angle grinder (using the optional mounting bracket and an appropriate cutting disc) for cutting metals and stone. At the same time, your power tools remain directly to hand for conventional use.

The machine is light enough to be carried and set up any –where you are working. So, in any situation where workshop machines are not available (considering space, cost or distance), the Unicut really does contribute to your output and capabilities in an unparalleled way.

Contact me today to take full advantage of this limited introductory offer and discuss any points you would like clarified.

Looking forward to your call, yours,

*Roger Buse*

Roger Buse.
(M.Dir. Unicut U.K.)

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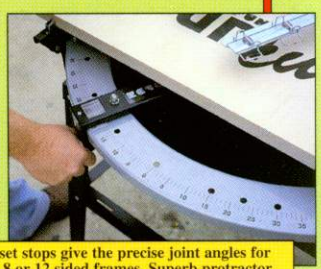
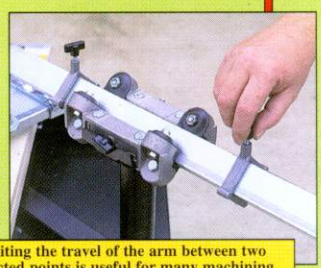


Pre-set stops give the precise joint angles for 4, 6, 8 or 12 sided frames. Superb protractor scale allows equally precise selection of any other angle. Simply twist the locking handle to engage or release the cam operated detent pin.



Limiting the travel of the arm between two selected points is useful for many machining jobs such as routing housings, mortises, etc. A central clamp is also provided to lock the arm completely for longitudinal work feeding i.e., ripping, edge rebating and so on.

Weighing just 40lbs (18Kg), the Unicut is easy to carry. It can be stand mounted or positioned for use on any flat and stable surface.

## *LIMITED SPECIAL OFFER PRICES –

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| H.D. Floorstand for above: | 51.00 | " | 59.90 |
| Universal router adaptor: | 16.94 | " | 19.90 |
| Angle grinder adaptor (115-125mm): | 24.26 | " | 28.50 |
| "Next-Day" Delivery (Mon - Thurs): | Unicut (including accessories): | | 14.00 |
| | Floorstand (ordered separately): | | 9.50 |
| | Adaptors (ordered separately): | | 3.50 |

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*Prices and specifications correct at time of going to press but subject to change without notice
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Universal router clamping system

Cross cut fence with clamp

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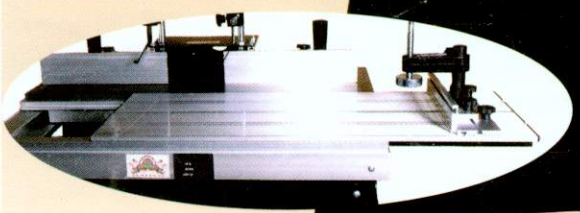

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