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December 2000
Volume 24
Number 6

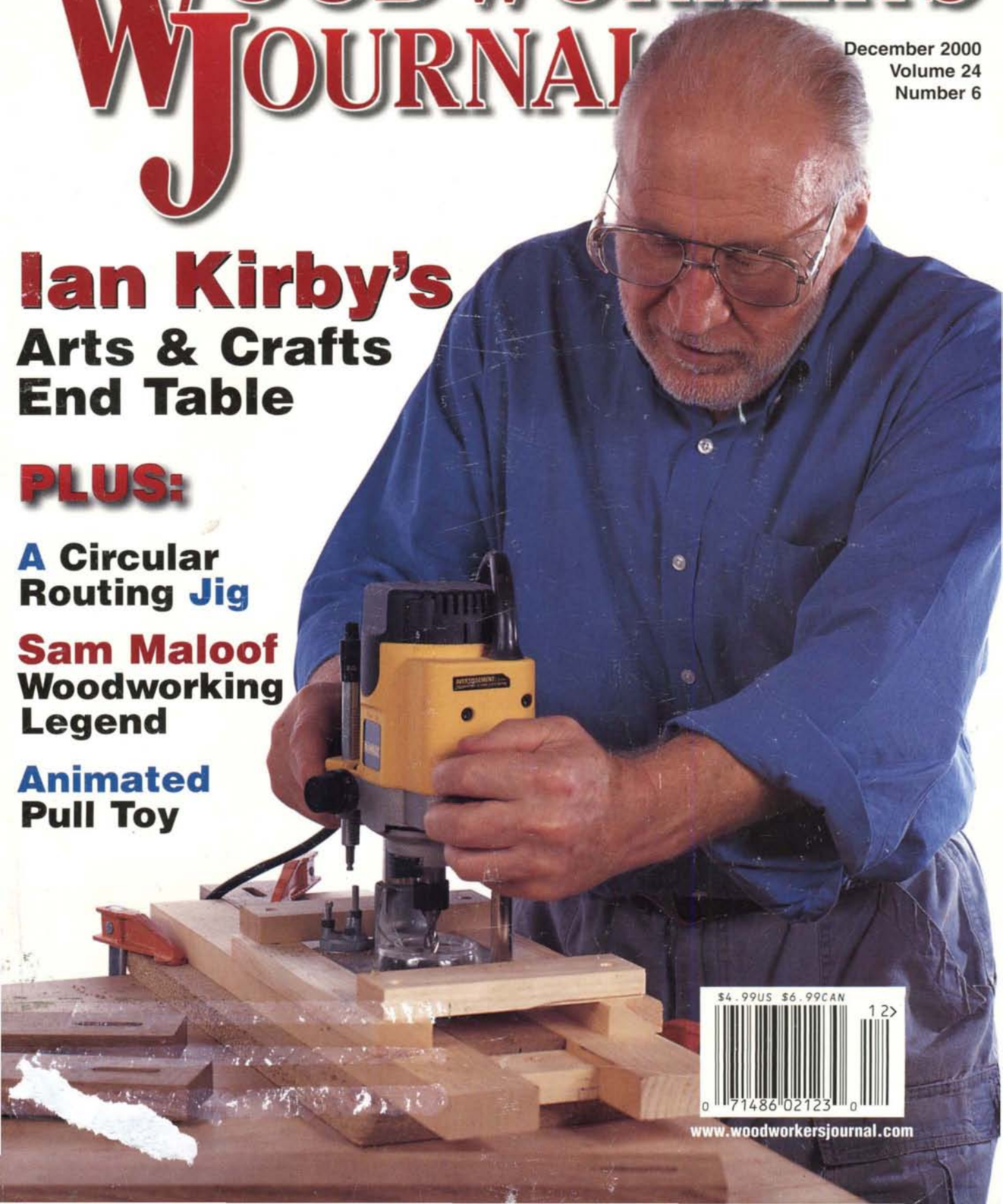
Ian Kirby's Arts & Crafts End Table

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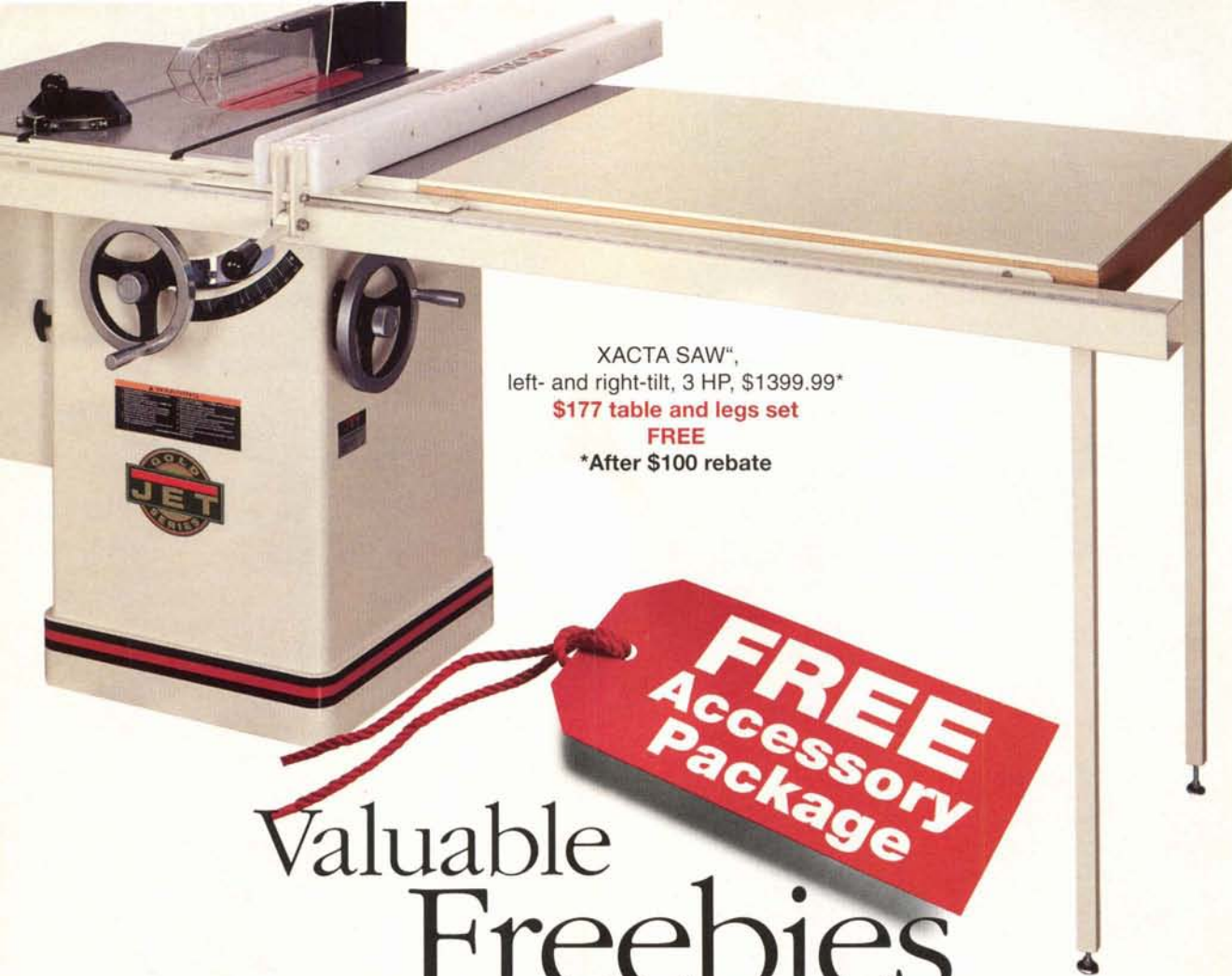
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Woodworker's Journal Features

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28 Mission Table

By Ian Kirby

From rough sketches to the final finish, master woodworker Ian Kirby covers every step in the evolution of a beautiful Arts and Crafts end table.

34 Articulating a Camel

By John Hutchinson

Kids' eyes really light up when they're confronted with one of our author's projects. This is the third in his delightful series of articulating pull toys.

41 Circular-cutting Jig

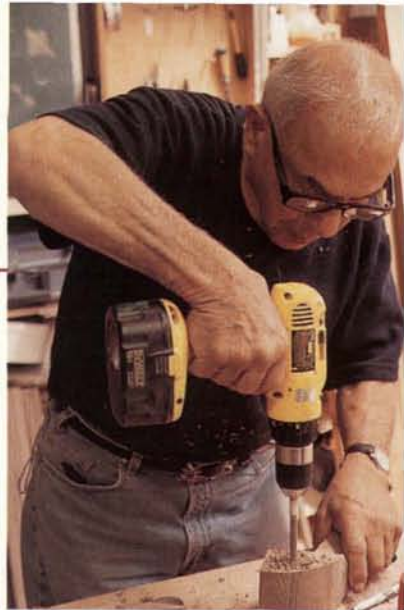
By John English

Once a circle gets small enough, traditional circle-cutting jigs with a pivot point fail to respond. That's where our contributing editor's jig comes into the picture.

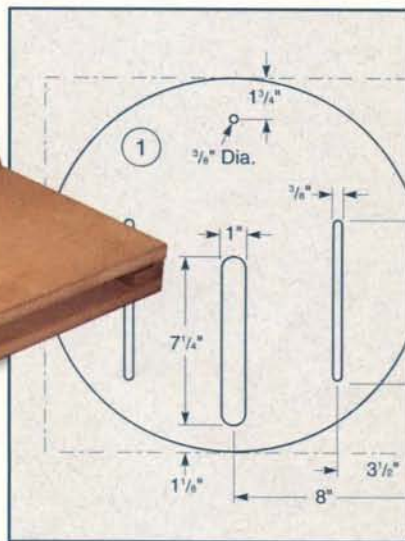
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By Joanna Werch Takes

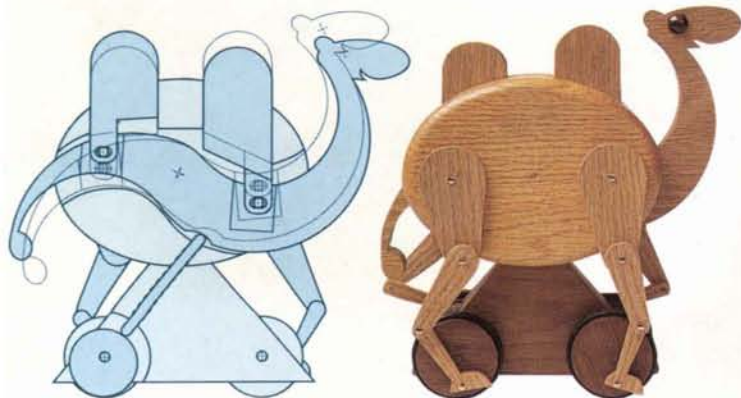
Our associate editor spends a weekend in the company of woodworking greatness (and, yes, Sam Maloof is still up to his old band saw tricks).



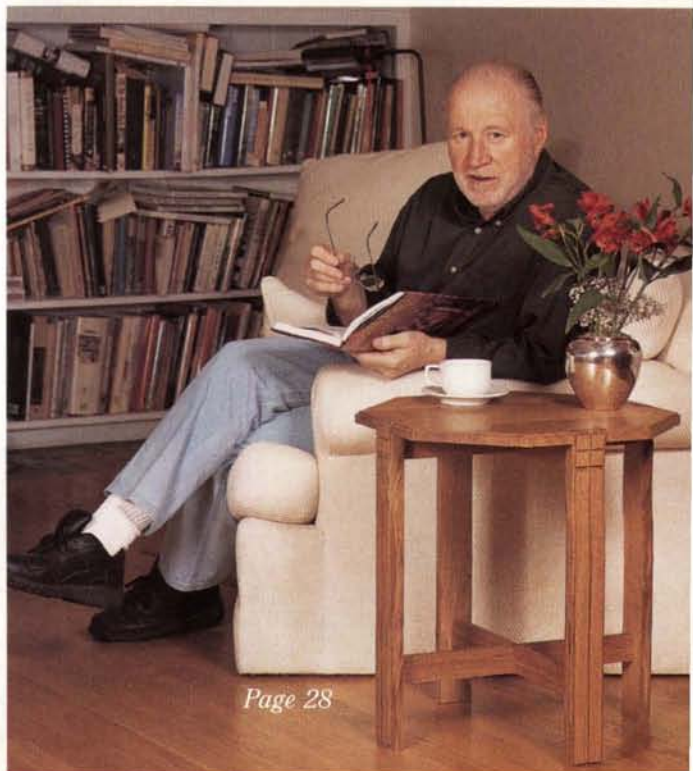
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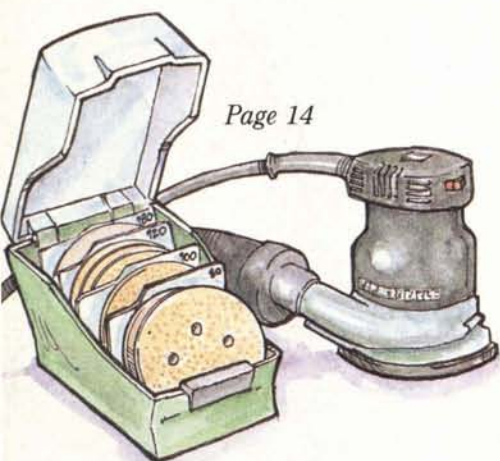
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You've built John English's unique
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Finishing expert Michael Dresdner
on using and caring for brushes.



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Four new routers from Makita, or is
it one router with four outfits?

50 Shop Test

Award-winning author
Charles Self covers the latest
biscuit joiners on the market.

73 2nd Annual Resource Digest

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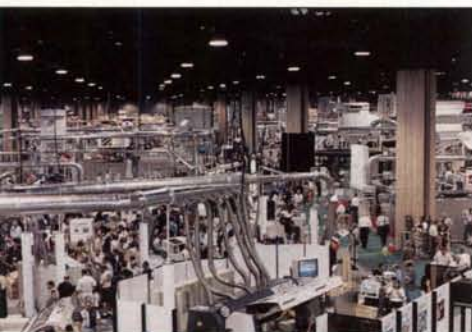
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A Tool Junkie's Delight



Our camera couldn't capture the number of fantastic tools on display at Atlanta's International Woodworking Fair — but our Resource Digest will take a stab.

convenience. It's our attempt to bring the shows to you. We hope our Resource Digest has the same effect on you that strolling the aisles of the Chicago and Atlanta woodworking shows had on us.



If you're wondering what you'd do with all those cool new tools, don't worry; we've got some great projects in this issue to get you started. You'll recall that in our last issue we asked master woodworker **Ian Kirby** to walk us through the process of designing a small project. What better way to wrap up that process than to have Ian build the project he designed? Check out the results on page 28. Elsewhere in this issue **John English** has created a jig to help your router go in circles (see page 41) and **John Hutchinson** returns with another of his delightful animated toys — a camel ready to take on the desert sands (page 34).

And finally, we're delighted to present a story on one of America's premier woodworkers in this issue. At 84, master woodworker **Sam Maloof** is still using a band saw with the best: I sent associate editor **Joanna Werch Takes** to cover Sam's annual workshop at the Anderson Ranch. You'll have to read her report (see page 46) to decide if she has become a Maloof groupie.

Larry N. Storken

Toward the end of this past summer, editor **Rob Johnstone** and I traveled to Chicago for the National Hardware Show and then on to Atlanta for the International Woodworking Machinery & Furniture Supply Fair. Along with the myriad of new tools and gizmos we rediscovered that, no matter what they do in the rest of their lives, woodworkers, almost without fail, are tool junkies. I'm talking hard-cases here: I've actually witnessed the collective breaking out of cold sweats as woodworkers watch a manufacturer roll out a brand-new gizmo for the first time. There's nothing quite as disquieting as the passionate oohs and ahhs of a crowd of grown men and women as they gather around a first-time tool demo, like the new 24 volt circular saw from Makita (with a 7 1/4" blade!) we saw at Chicago, or CMT's new Lonnie Bird line of cove cutting saw blades that were creating a buzz in Atlanta.

While we can't quite package the excitement of these exhibitions, we can do the next best thing and present you with info on as many of these tools as possible. That's just what our second annual **Resource Digest** does, starting on page 73 of this issue. Like the shows, our Digest gives you a sampling of the latest from woodworking suppliers, all collected in one place for your

NOVEMBER/DECEMBER 2000

Volume 24, Number 6

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"Plane"-ly Helpful

Ian Kirby's article on *Planecraft* (August 2000) was magnificent. Every woodworking magazine publishes a yearly "tune up your plane" article, and the basic advice never changes: Flatten the sole, polish the back and bevel of the blade, adjust the mouth and chip breaker, and so on. Then you are supposed to be rewarded with wispy curls floating up through the throat of your plane.

Ian's article went beyond that and focused on how to use a plane properly. This is exactly what I needed, since up 'til now, my finely tuned

plane still chattered, dug in, ruined the surface and frustrated me. Using Ian's advice, I am now having better results than ever before, and am finally able to appreciate the hours of work put into getting my plane into fine fettle.

Finally, I'd like to thank Ian for including actual numbers for such items as mouth opening and chip breaker position. Every other article or book minces around the subject with non-specific ideas like "adjust the mouth opening smaller for finer shavings, bigger for larger shavings." While obvious, this is far from helpful. Ian's specific recommendations are much more valuable to the novice plane user.

Thanks, Ian and *Woodworker's Journal*, for the first truly useful planecraft article I have seen.

Millard F. Brown III
Media, Pennsylvania

Reducing Shop Dust

Re: "Cutting Dust" (*Four Jigs Essential to Success in Your Shop*), June 2000, pp. 56 - 57. Bypassing the sander's own dust port to plug a low-cfm vac into a downdraft table accomplishes as little as possible to control dust — and does nothing at all to make sanding more efficient. Forget the table;

just connect the vac directly to the sander. Vacuuming away the dust as it is created between sanding pad and wood eliminates airborne dispersal far more effectively than an underpowered draft table and also allows the abrasive to work far more efficiently, cutting into fresh wood instead of re-cutting a layer of dust. Try it!

Charles Smith
Atlanta, Georgia

An error appeared in the material list for the downdraft sanding table in the June 2000 issue (*Four Jigs Essential to Success in Your Shop*). The length of the short cleats (piece 4) should be slightly more than 10 $\frac{1}{2}$ ", with the angles cut to fit.

Photo Tips

We always like to get photos of the projects readers build from our plans. Here are some tips for pictures showing off your project:



Mail Call! Contact us by writing to "Letters", *Woodworker's Journal*, 4365 Willow Drive, Medina, Minnesota 55340, by fax at (763) 478-8396 or by e-mail: letters@woodworkersjournal.com. We ask that all letters, including e-mails, include a mailing address and phone number. We reserve the right to edit for length and clarity.

Do not use Polaroid® photos. Make sure your photo is in focus. Send us more than one photo of your project — take pictures from the front and from different angles. Use a tripod if available, especially if using slower speed film (200 or less). Avoid flash pictures as they usually blow out certain areas of the photo. The best advice would be to use 200 speed film and shoot your project outside on an overcast or partly cloudy day. Grass is a fine background for

woodworking. White backgrounds are OK too — just be sure the sun is behind a cloud as straight sun will reflect off the background and wash out areas. The same rules apply for digital photos; in addition, electronic photos must have a resolution of at least 300 dots per inch (dpi).

The Editors

Cutting Too Close

The method for ripping narrow strips shown at the bottom of page 48 (*Build a Set of Shadow Boxes*)

in the August issue is, in my opinion, an accident waiting to happen. My opinion, and long-time practice, has been to cause the narrow strip to fall away from the blade and not bind between the blade and fence.

Paul Pertell

Chester Springs, Pennsylvania

WJ Responds:

The special over-the-top plywood push stick, designed specifically for this task, is indeed a safe and prudent technique. Its heel slides through the saw blade



The author's over-the-top push stick requires only a single setup per slat dimension.

continues on page 12 ...

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Good news:
Grizzly's G1037
planer-molder
costs \$100 less
than we reported.



and pushes the strip forward with no chance of binding. The over-the-top handle keeps the meat of the pusher between you and the saw blade, and the downward pressure provides complete control of the stock as you guide it across the saw.

Grizzly's G1037

Thank you so much for including the Grizzly G1037 in your review of planer-molders in the August issue (*Three New Planer-molders*).

We found the article to be well written and objective. And it is time there was some coverage of these types of specialty machines!

The price was incorrect in the photo sidebar on page 63, and the model number was incorrect on the section heading which began the review of our machine. We'd like to clarify that the model is indeed a G1037 and its 2000 price is \$695 and \$42 for shipping anywhere in the lower 48 states.

*Hal Verrell
Grizzly Industrial, Inc.
Bellingham, Washington*

Shop Fire Warning

The magazine keeps looking better and better. I thought Ian [Kirby's] article was terrific, and loved the Greene and Greene desk.

On page 12 (*Tricks of the Trade*, October 2000), Emmett Hood's tip says to "stuff an oil-soaked rag" into the bottom of a pipe. I hope it is clear to folks that he means any non-drying oil. If they happen to grab [other oils] off the shelf, they will have a fire in short order.

*Michael Dresdner
Contributing Editor
Puyallup, Washington*

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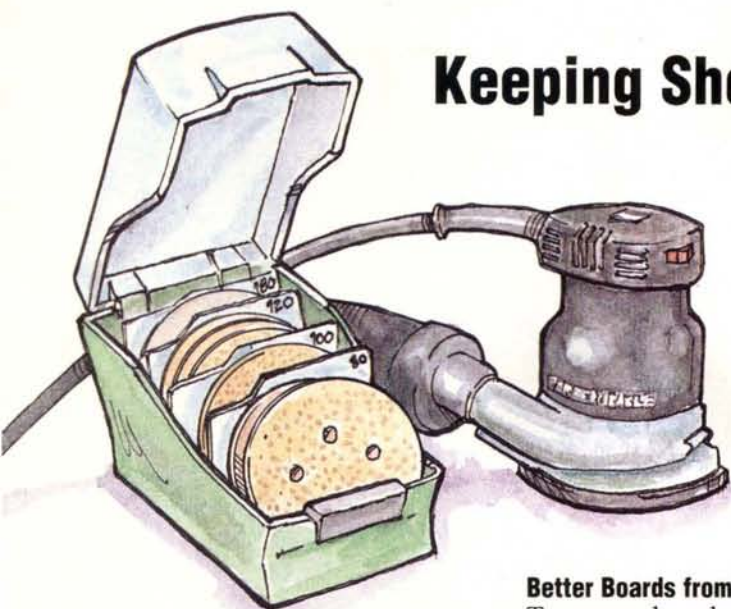
the bar clamp, again.



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Keeping Shop Supplies Handy



Sanding Disk Storage

I use a discarded computer floppy disc index box that held the old-fashioned large size discs (5 1/4") to store my orbital sanding discs. This works perfectly because the various grits can be organized in groups, starting with 60s and moving on up to the 220s and higher. I use the index dividers to make the divisions easily seen. This makes them easy to select even if my safety glasses are dusty (a common problem when sanding). If you don't have one of these computer disc boxes, you can probably find one at a garage sale. In the way of computer stuff, the 5 1/4" discs' time has passed.

*Vincent Koehler
Geneva, Illinois*

Better Boards from Pallets

To remove boards from pallets here are two tricks: First try center punching the nail heads to drive them completely through the board. Another method is to use a sharp bit the size of the nail shank, drill until the head pops off (or climbs the bit).

*Ray Elwart
Romulus, Michigan*

Keep Your Filler Flexible

The waxy stick type of wood filler is a convenient and durable filling material, so keep several shades on hand for use with different stains and kinds of wood. Over a period of time, these tend to dry enough to lose some plasticity. To prevent this, I wrap the sticks in clear plastic wrap and store them in an airtight jar.

*Ralph Wilkes
Pennyan, New York*

Brad Bracelet

Pins can be tricky to pick up and can easily be spilled or lost as you are working. I tape a length of flexible magnetic strip around my wrist, then sprinkle some brads on the magnet and go to work. Now it's a simple matter to pick one off my wrist and drive it home.

*R.B. Himes
Vienna, Ohio*

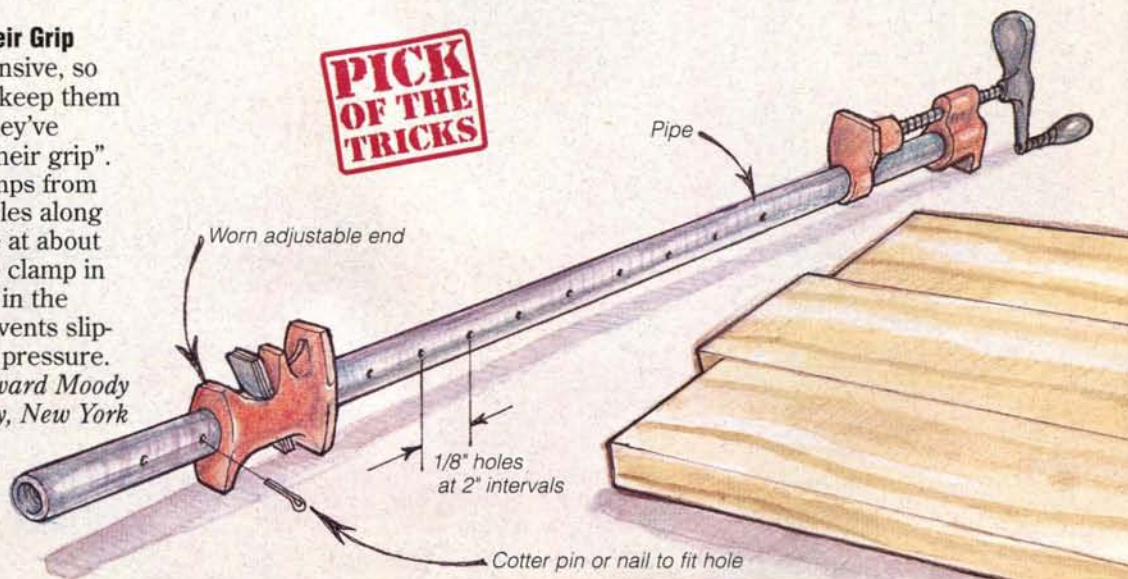


Tricks continues on page 16 ...

When Clamps Lose Their Grip

Pipe clamps are expensive, so I've devised a way to keep them working even after they've grown old and "lost their grip". To keep the pipe clamps from slipping, drill 1/8" holes along the length of the pipe at about 2" intervals. With the clamp in position, insert a nail in the nearest hole; this prevents slippage when you apply pressure.

*Howard Moody
Upper Jay, New York*





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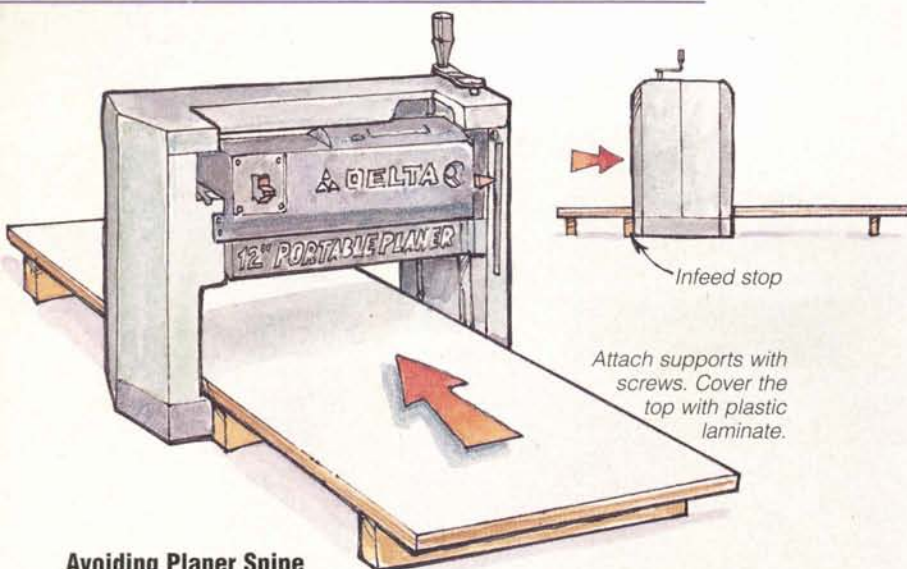
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TRICKS OF THE TRADE



Avoiding Planer Snipe

I had a problem with "snipe" on long boards when feeding them through my 12" benchtop planer. I solved the problem by making a simple auxiliary feed bed that extends farther than the outfeed tables. It is simply a piece of MDF cut just wide enough to fit within the feed guides.

I glued plastic laminate to the top of the MDF and attached three supports. The middle support was attached against the infeed side to prevent the table from being pulled through the planer.

Richard W. Meure
Redwood City, California



Winner! Howard Moody will receive Porter Cable's 9845 Saw Boss for submitting this month's Pick of the Tricks. **Woodworker's Journal** will pay from \$50 to \$150 for all Tricks of the Trade published. In addition, the reader whose trick is selected as our "Pick of the Tricks" will receive a free tool. To join in the fun, submit your original, unpublished trick to the editor. Include photos or drawings needed to explain your idea. Send all tricks to Woodworker's Journal, Dept. T/T, P.O. Box 261, Medina, Minnesota 55340. Or send us an e-mail: rjohnstone@woodworkersjournal.com.

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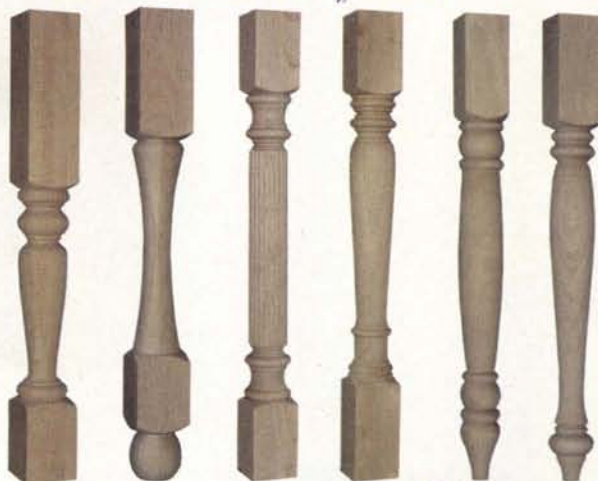
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3M Innovation

(Circle No. 69 on PRODUCT INFORMATION form)

Stretch Your Mind

Q In the August 2000 issue, David Moon of Glencoe, Alabama, shot us a question about his "Star" tool. Several correspondents didn't have to stretch too far to identify it.

The Editors
Woodworker's Journal



A "It's a rug stretcher used to lay what passed for wall-to-wall carpeting in the late 1800s and early 1900s," wrote Bob Riese of Lansing, Kansas. Bob's wife, Marietta, has been collecting these tools for years; David Moon's tool, apparently, is "one of the simpler ones — many are ornate."

Don Curtis of Chubbuck, Indiana, explained how it works: "The single spike on one end is driven into the floor with a hammer, and the pins in the crossbar are pressed into the carpet. When the metal handle is turned, the rope winds around its base to pull the crossbar toward the spiked end, pulling the carpet in that direction." As a lad, James Hayes of Black River Falls, Wisconsin, helped his grandfather with the task. "One either starts at opposing corners or opposite centers and works back and forth

of the center or corners, giving equal attention so that the carpet pulls in or stretches straight with no wrinkles," he told us. Finally, according to James E. Leslie of Rudy's Carpet, Inc. in Akron, Ohio, "the carpet was turned under approximately one to two inches and tacked."

Judith Pizzo of Warsaw, New York, notes that older carpets "were pretty coarse and without much nap, so they could withstand the rigors of this type of tool."

Q I recently cleaned out my closets and ran across this tool that's a mystery to me — and everyone else I've shown it to. I buy a lot of antique tools at sales, and I must have picked it up some time over the years. I've got a lot of experience in woodworking, particularly turning, but the only thing I can figure out about this tool is that it must be some kind of a plane, because there's a blade in there.

Nordy Rockler
Minneapolis, Minnesota

A It's amazing, the things you find lurking in closets. In fact, your tool has probably been doing a good job of keeping the monsters in there entertained



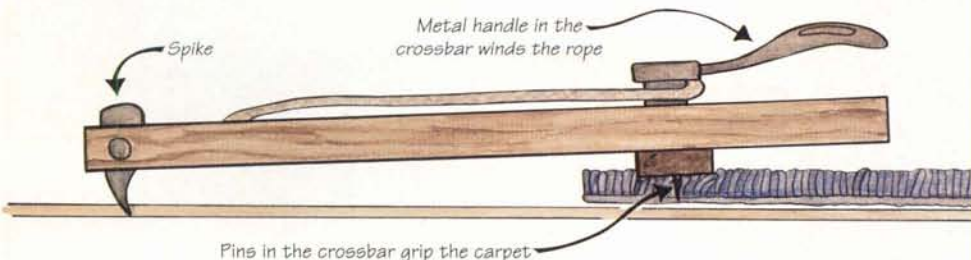
You never know what you'll find when you clean out a closet ... and then, you may not know what you've found. Any guesses on this tool?



for the past several years. As for its original purpose, our first thought was that it was some kind of clamp — but, as you pointed out, it does have a blade. Anyone out there who can dig through a closetful of memories to provide an explanation for this tool?



Winner! For taking the time to respond to Stumpers, Ralph Buster of Albuquerque, New Mexico wins a collection of American Tool's Quick Grip clamps. We toss all the Stumpers letters into a hat to select a winner. If you have a question or answer, send it to the editor: Stumpers Dept., Woodworker's Journal, P.O. Box 261, Medina, Minnesota 55340. Or send us an e-mail: jtakes@woodworkersjournal.com



Antiques dealer Reg J.D. Allen of Sarnia, Ontario has seen lots of these "stars" creep across his path: their original purpose was to straighten out creeping carpets.

**DRAIN
PLYWOOD**

Q About 40 years ago, my father boxed in the eaves on our house. (I recently) had to tear some plywood off, and found these markings on the back. My question: would you, or maybe one of your readers, know what Drain Plywood is?

Ronald Norlin
Escanada, Michigan

A Well, first you poke a bunch of holes in your plywood, then you put it at the bottom of your downspout ... Sorry.

Seriously, we found out that the Drain Plywood Company existed in Drain, Oregon, from 1956 until some time after a fire destroyed the main building in 1965. An article about the fire in the February 1, 1965 *Register Guard* of Eugene, Oregon, noted that the mill "produced about 62 percent of the plywood used nationally in making floors for mobile homes." The article also said that most of Drain plywood's products were shipped to the East, South and Midwest — which means your Michigan finding makes sense.

Where did the city of Drain get its rather unusual name? Like many odd-sounding American places, it came from a name: Charles C. Drain bought land in western Oregon in the 1850s, then deeded some to the Oregon & California Railroad for a town site in 1872. Apparently, the railroad (and the citizens) were grateful enough to make him famous for the ages.

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New Harvest of Old Timber

By Joanna Werch Takes

Wood Under Water

Pulling Up the Trees

When somebody tells a person to go jump in a lake, they usually don't think of it as a business proposition. Gary Ackles did, and found a great source of timber.

When he was researching a water-line harvest, the machinery designer explained, a forest service rep asked, 'Oh, you mean all those trees under the water?' I said, 'You're kidding.' He said, 'Oh, yeah, they're all over the world.'

In fact, says Michael Lacy of Ackles' new company, Aquatic Cellulose International Corp. "I sincerely believe there is probably more aquatic timber out there than there is traditional timber you can legally harvest." Already, Aquatic Cellulose has identified about 38,000 sites, including a current project at Lake Tukurui in Brazil: 450,000 square acres full of submerged species like jatoba, ipe and massaranduba. A 1985 dam project flooded the Amazon rainforest section; "Unfortunately, they did not clear the area first," Michael commented.

Working with the Aquatic Timber Harvesters Ackles designed, Aquatic Cellulose expects to be pulling trees from Tukurui for the next 20 years.

Running the ATH, Ackles said, is like "playing a video game": the operator sits in a windowless cab on the water's surface, relying on information from computer monitors to guide in manipulating the ATH's arm.

The arm, Ackles explained, has several links which allow it to bend and to turn 360 degrees. "It has better dexterity than the wrist on your arm," he said. The operator instructs it to reach down and grab a tree, then

releases a saw blade which can cut through a five foot tree in about 20 seconds. Retrieval cables bring



The original Aquatic Timber Harvester can reach to 60 foot depths. Production began this year on an ATH with a 120 foot reach.

the tree to the water's surface. Some of the softer woods go to Aquatic Cellulose's partner, a Brazilian plywood manufacturer, while North Cal Wood Products of Ukiah, California, is the distribution partner for the hardwoods.

Wood from aquatic harvests, Ackles said, lets you "build furniture or do whatever you want with a clear conscience. It's exotic species, and also environmentally friendly wood."

Want to know more about these watery woods? Call 800-565-6544 or visit www.aquaticcellulose.com.



Sean Ackles and Sheraton Westgarde were part of a survey team which used global positioning satellites.



Hundreds of sites worldwide have underwater trees like Lake Tukurui.



Wood species harvested from the lake include company-named "tigerwood." It's a brown colored wood with beautiful black stripes.



A Special Serenade:

Nakashima Guitars

One of the 20th century's greatest woodworkers is getting a serenade from one of the country's finest instrument makers: the Martin Guitar Company now offers a George Nakashima commemorative guitar.

Nakashima, who gained widespread recognition for his work in contemporary furniture, frequently visited the Martin Company before his 1990 death. It seems that their state-of-the-art bandmill was perfect for cutting the oversized walnut logs Nakashima favored.

As a tribute to Nakashima, the Martin Guitar Company has come out with the George Nakashima Claro Walnut Commemorative Edition Dreadnought guitar. They'll make 100 of these instruments, in the woodworker's style. That means choosing book-matched, highly figured Claro walnut for the sides and two-piece back, joining the back panels with Nakashima's trademark dovetailed "butterflies," and incorporating the Nakashima family crest into the headplate. Both Mira Nakashima Yarnall (George's daughter) and Martin CEO and chairman C.F. Martin IV have personally signed the interior labels.

To start fingering Martin's Nakashima guitars, call them toll-free at 800-633-2060 or visit www.martinguitar.com.

Shop Talk continues on page 24 ...

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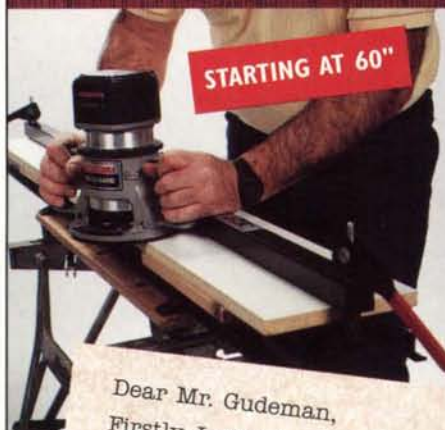
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Dear Mr. Gudeman,

Firstly, I wish to thank you for calling me to see how the JOINT A-billi-T was working. In today's market place, I seldom get that kind of interest.

Secondly, I rate your product up there with sliced bread and baseball. I am finally nearing completion on an order for forty - yes, forty - tables for an Inn. The smallest ones are 14" x 18" and they go up to 36" x 72". Without a doubt, I could never have completed all those tops and aprons without the JOINT A-billi-T. I believe the production time for jointing the edges was cut at least 50%, not to mention the improved quality of the finished products and my sanity, when you must tease a stubborn board into matching with its cousin.

Anyone who is a serious woodworker, or perhaps anyone who wants to plane an edge on a board, needs a JOINT A billi-T.

Congratulations on this wonderful improvement to the woodworking process. Like any process, each step must produce the desired results each time. With your product, this is possible.

Congratulations again for your contribution to woodworking.

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Stuck in Their Craw

Pictures of Hungry Trees

Daniel-Jean Primeau's fascination with "gluttonous trees" started when, as a boy, he couldn't get his sap pipe out of a maple tree. "Over the years, the piece of pipe was swallowed," he said. "I was amazed by the phenomenon that a tree can swallow whatever you put into it."

photos by Daniel-Jean Primeau



On the rare occasions when someone cuts down a gluttonous tree, Daniel-Jean wants to be there: he uses the pieces in art books.

About eight years ago, Daniel-Jean started photographing gluttonous trees. He spots them on his vacations and asks others to notify him about trees they've seen. So far, he's identified about 50 near his Montreal home and has

information about trees in the United States, the rest of Canada, France and Israel.

At first, Daniel-Jean just wanted to document the gluttonous tree phenomenon. Then he started thinking about its symbolism. "Every human being has some difficulties in life," he explained. "I associated this



Sometimes, Daniel-Jean Primeau grows his own "gluttonous trees" — the ones that "eat" objects like a basketball hoop.

with a tree as it slowly, patiently copes with an obstacle and swallows it. The tree is stronger than it was previously, just by swallowing a piece of metal."

If you know of a gluttonous tree — or want to see more of Daniel-Jean's photos — check out his web site at www.primeau.qc.ca, or call 450-427-3243.

Shop Talk continues on page 26 ...

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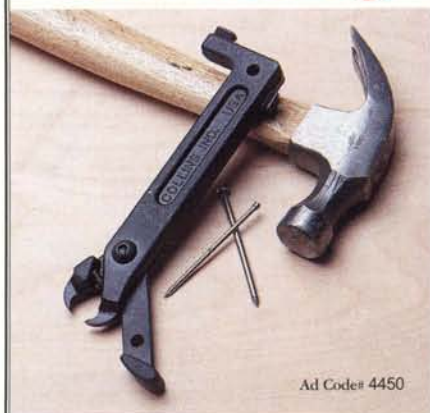
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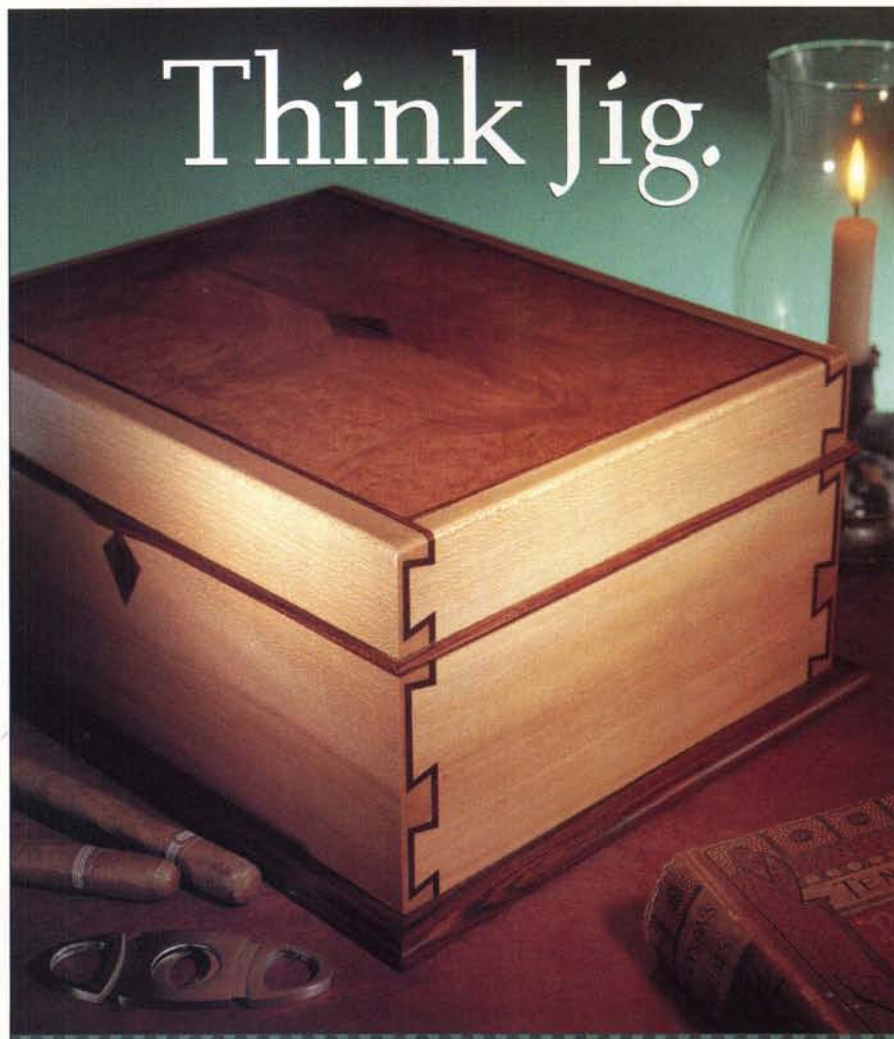
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Woodworkers From Far and Near

Recognition from San Diego

Over one million people attended the San Diego Fine Woodworkers Association 19th Annual International Design in Wood Show this summer. According to organizer Bob Stevenson, 1,169,150 saw the works displayed at the Del Mar (California) Fair.

They had a chance to check out works in 19 different categories, with *Woodworker's Journal* sponsoring a prize for each category's first honorable mention winner. Woodworkers from places as farflung as Connecticut, Hawaii, Wisconsin — and even Iran — submitted pieces for this year's show.

The Iranian piece came from woodworker Daryoush Ababas, whose Los Angeles cousin entered the piece for him. "It looks like it was painted by a brush," Bob said of Daryoush's piece, "Neshaat," which loosely translates as "Mirth." It took 32



This mahogany and ebony peppermill by William Frost of Palmdale, California took a first place from San Diego's woodworkers.

photos by Lynn Rybarczyk and Ed Suszynski



Daryoush Ababas of Iran submitted "Neshaat," a wood inlay on a background of polyester and dye.

months to complete, with inlays of wood and acrylic that Daryoush pours himself. Materials in the piece include tiny pieces of orange, walnut and jujube wood for the hair and eyelashes; mountain shrubs' roots for the face, hands and feet; and boxwood for the jacket with walnut as the lining. Daryoush used a Dremel tool to give a raised effect to his piece.

If you are making plans to enter or attend the Design in Wood Show next year, it will run from June 15 to July 4, 2001. You can contact Bob at 619-422-7338 for more information.



Honorable mentions went to both Jim Sowers of San Diego, for the sapele and ziricote display case at left; and to Hans and Madaline von Nostitz of Santee, California, for "Pheasant Under Glass," which uses mahogany, bubinga and figured maple.



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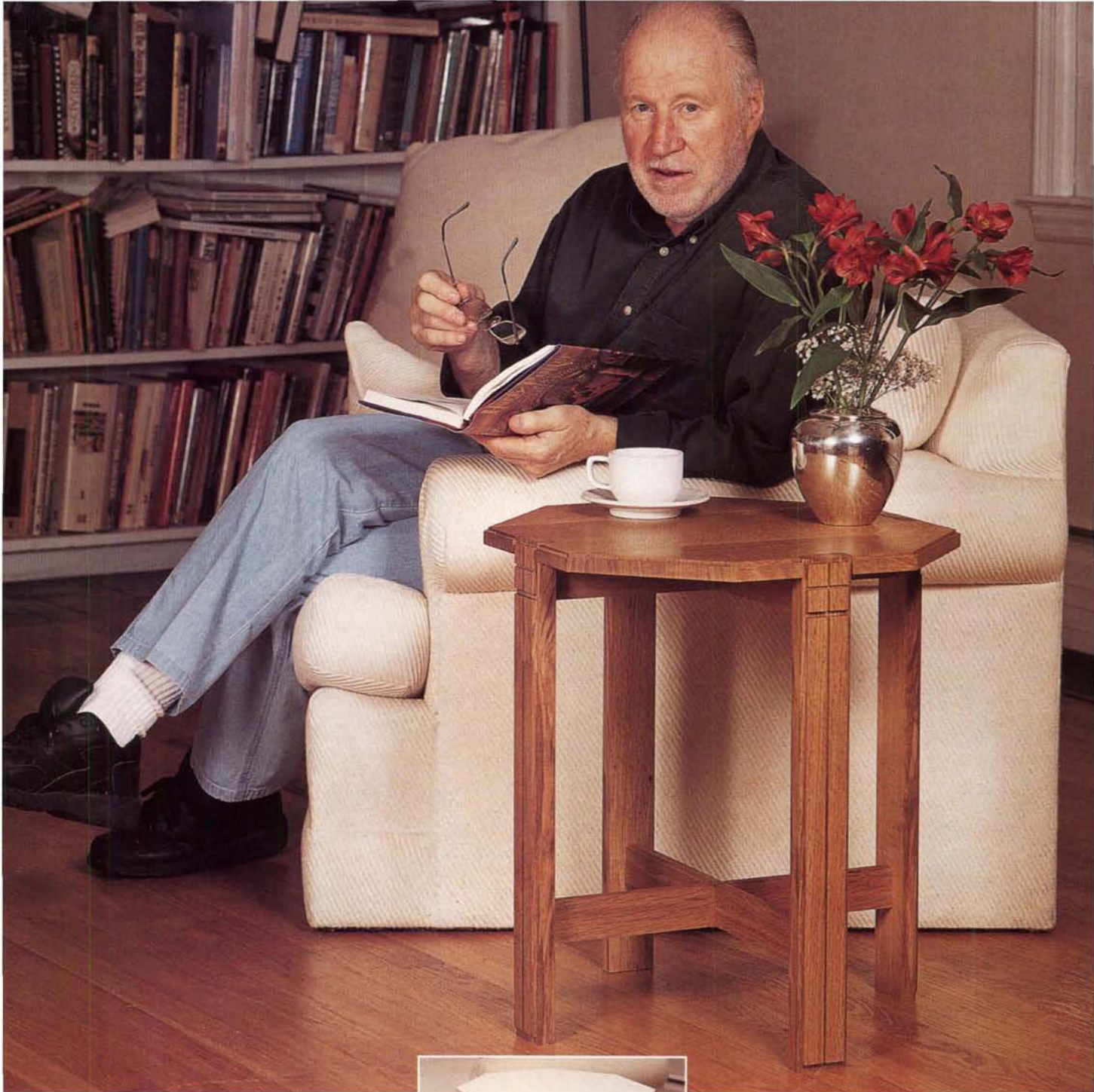
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Building an Arts & Crafts Table from Mock-ups

By Ian Kirby



Picking up where he left off last time, Ian moves from the design process to the building stage.

Ian's Critical Path

When creating furniture from solid wood, a logical series of steps bring you efficiently and effectively to your goal.

1. Harvest the parts.
2. Prepare the stock.
3. Mark the joints.
4. Cut the joints.
5. Shape the parts.
6. Clean up and polish the inside faces.
7. Glue up the subassembly.
8. Glue up final assembly.
9. Clean up and polish the outside faces.



Harvesting the parts amounts to getting the best-looking fit with the greatest economy of material.

Making The Top

Making a solid wood top has one of those additional steps in its critical path. After you harvest the parts you need to compose the parts.

Harvesting the parts amounts to getting the best-looking material with the greatest economy. It's your call, but for me, the best-looking pieces are what matters. My wood of choice for this table was quarter-sawn white oak. Solid white oak boards vary considerably from one side to the other. They vary in color, in growth rate in the grain and in tissue pattern (white oak's famous flake pattern which comes from its rays). Once you have got the composition exactly as you want it, slash two pencil lines across the joint. To plane the joint by hand — we call it shooting the joint — you use a long plane: a shooting plane.

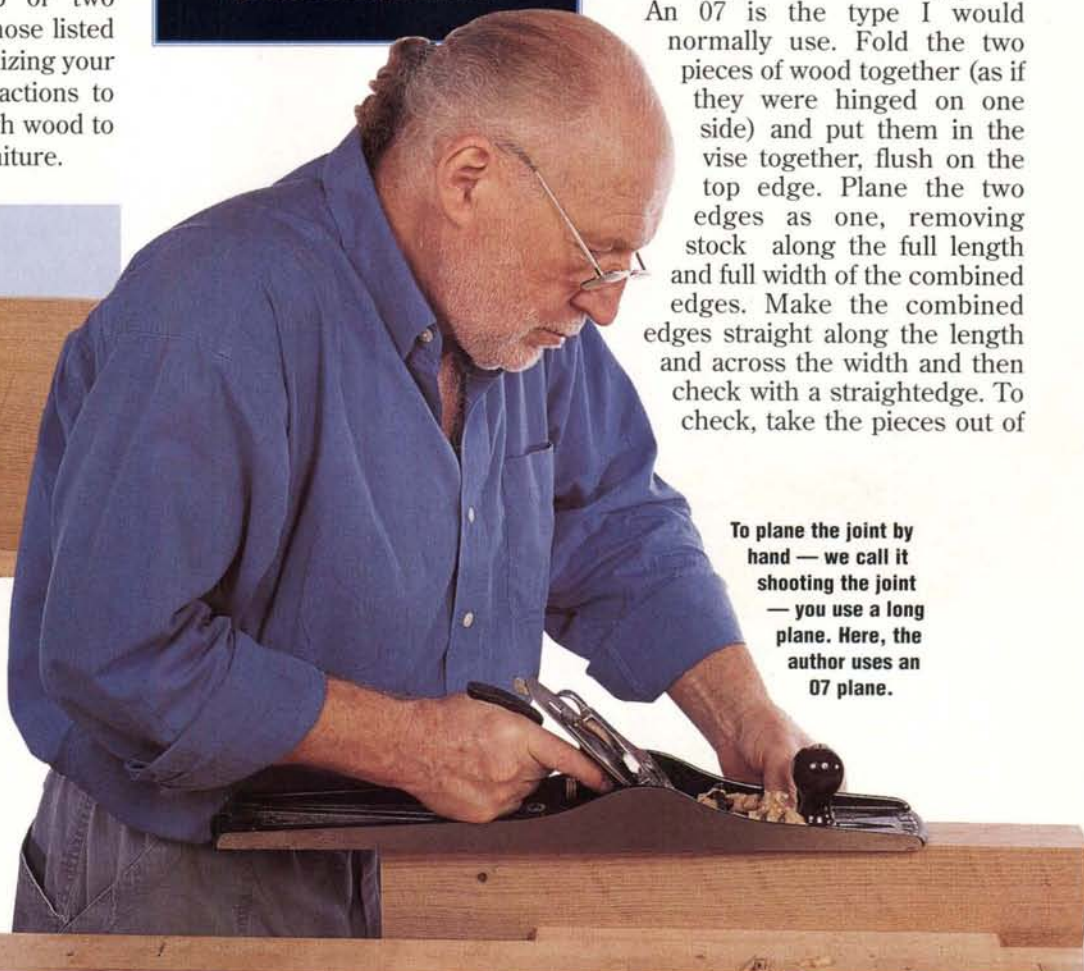
An 07 is the type I would normally use. Fold the two pieces of wood together (as if they were hinged on one side) and put them in the vise together, flush on the top edge. Plane the two edges as one, removing stock along the full length and full width of the combined edges. Make the combined edges straight along the length and across the width and then check with a straightedge. To check, take the pieces out of

Although my friend's little table still remained a concept, I had actually moved well down the path (our last installment demonstrating the usefulness of full-size mock-ups) of designing the piece. It was now time to move onto building.

Making any piece of solid wood furniture (as opposed to furniture made of MDF or plywood, for example) follows a well-established path — you begin with this, then you do this, and so on. No one ever gave this pathway a name, so I coined the term "critical path" — a piece of jargon describing the process of building essentially anything. In fact, each subassembly of a piece of furniture will require its own unique critical path, with an additional specific step or two required in addition to those listed below. It is a way of organizing your thoughts and therefore actions to best move you from rough wood to a substantial piece of furniture.

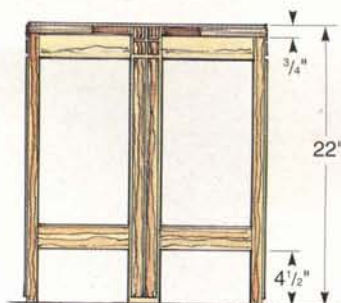
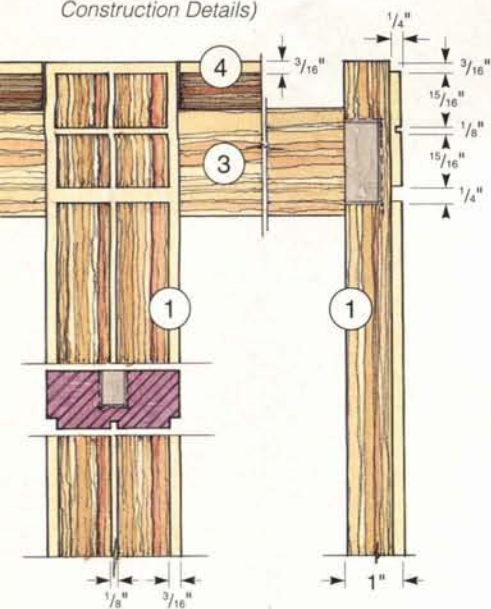


Hold a straightedge flush to the faces to check if they are aligned in the same plane.

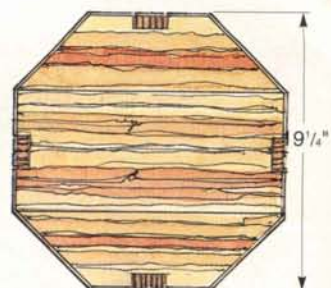


To plane the joint by hand — we call it shooting the joint — you use a long plane. Here, the author uses an 07 plane.

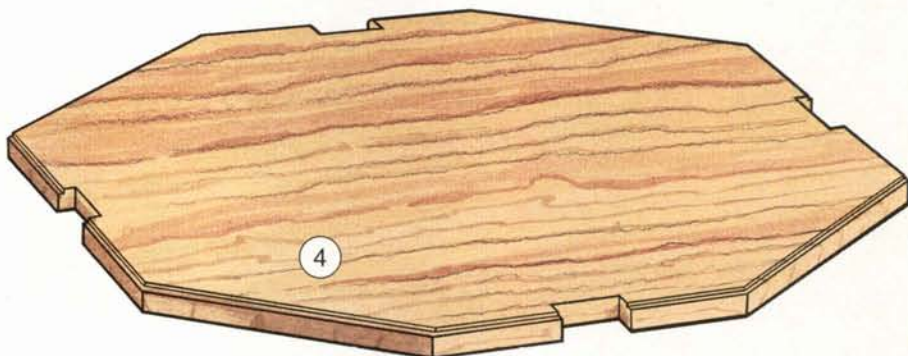
Top Rail and Leg (Assembly and Construction Details)



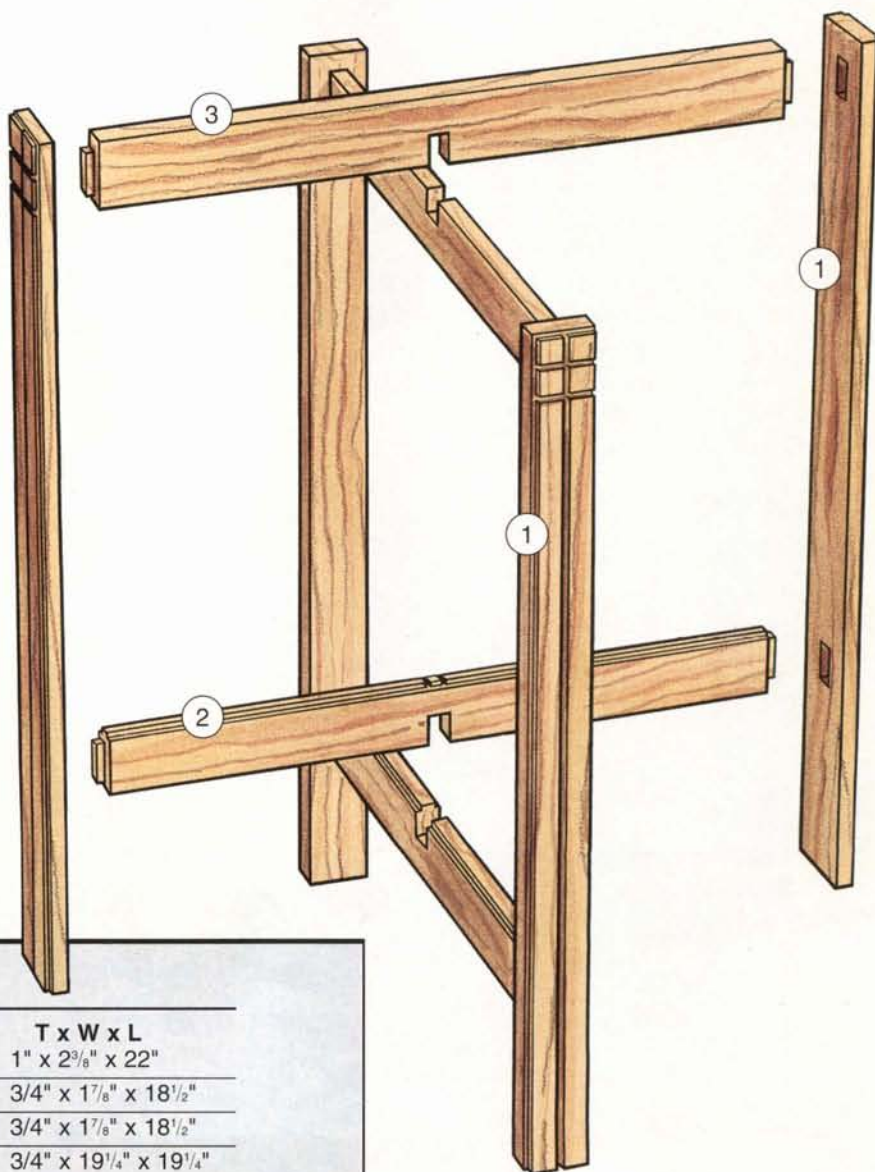
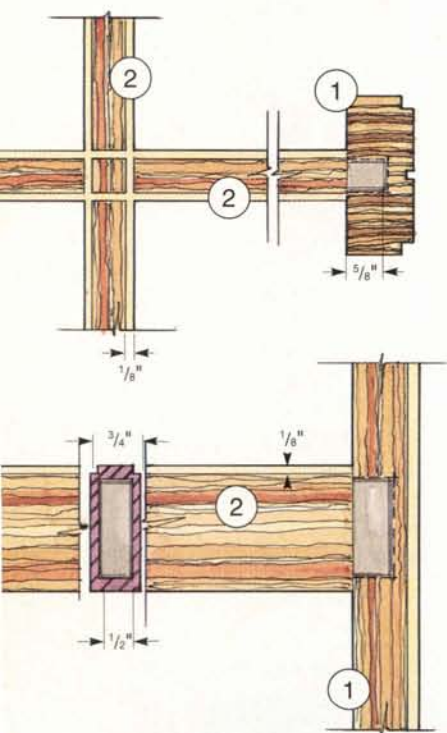
Side View



Top View

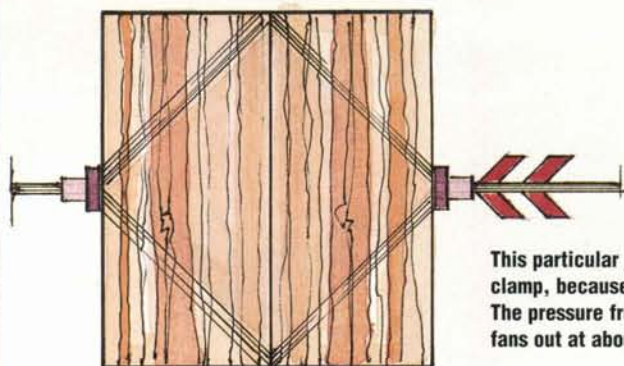


Bottom Rail and Leg (Assembly and Construction Details)



MATERIAL LIST

	T x W x L
1 Legs (4)	1" x 2 3/8" x 22"
2 Bottom Rails (2)	3/4" x 1 7/8" x 18 1/2"
3 Top Rails (2)	3/4" x 1 7/8" x 18 1/2"
4 Top (1)	3/4" x 19 1/4" x 19 1/4"



This particular joint requires only one clamp, because the boards are wide. The pressure from the clamp heads fans out at about 90 degrees.

the vise and unfold them. Stand one edge on the other. This way, any deviation from the edges being square to the face won't matter because one angle will complement the other. Hold a straightedge to the faces to be sure they are aligned in the same plane and, of course, check that the joint is tight.

Glue Up and Clamp the Top

I use yellow glue rolled sparingly on both edges. This particular joint requires only one clamp, because the boards are wide. The pressure from the clamp heads fans out at about 90 degrees. This is the key when choosing how many clamps to use when you're making butt joints. When the joint is correct, you only need apply moderate pressure. Too many clamps and too much pressure will starve a joint of glue.

Once the glue is cured, you need to surface the top and bring it down to its proper thickness. This can be done by hand or machine. Set the top aside; you'll return to it towards the end of the building process.

Critical Path Revisited

Now that you have glued up and surfaced the top, move on to the parts which compose the base subassembly. Again, the critical path for solid wood construction is observed. Look to the bill of materials and harvest and prepare the pieces as indicated. As you do, keep a keen eye as to which face of the material will be viewed when the piece is complete.

Cut the Joints

You can make the joints by hand or machine. I used a plunge router and jig to make the mortises, then moved back to a table saw to make the tenons.

For the mortises, I used a very basic jig which controls the travel of the plunge router along the length of the cut while securely centering the cutter on the table legs. It is best to custom build this set-up specifically for this operation, as it takes just a few minutes and delivers exactly the mortise you need. It is always best to test your set-up

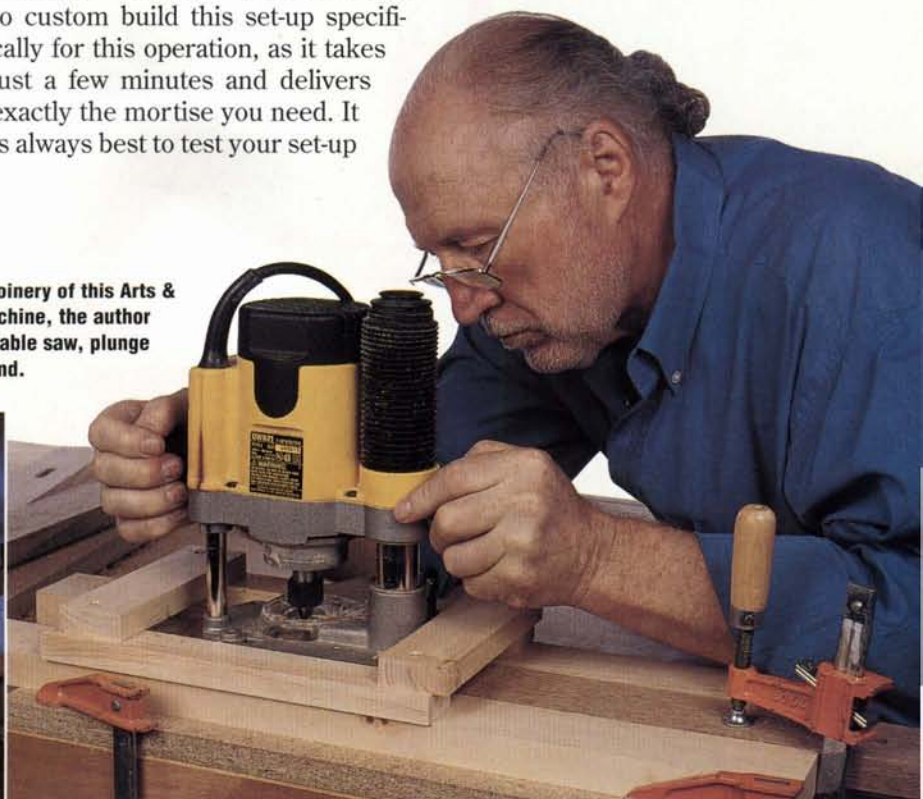
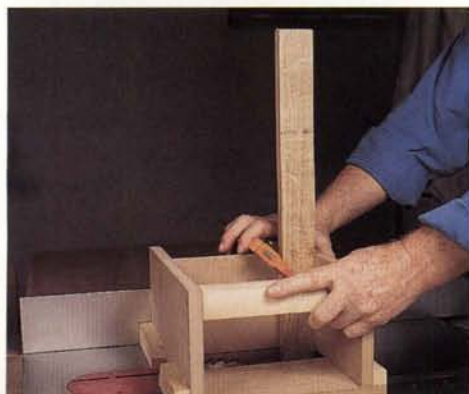
before you machine the actual table material. For increased accuracy and ease of cut, I used a 3/8" spiral bit, then cut the ends square with a chisel.

To make the tenons, the tenoning jig holds the workpiece vertical on the table saw. The height of the blade is the length of the tenon, and the fence position gets the tenon thickness exactly right. The shoulders are cut to length on the table saw, using the miter gauge and end stops.

Making the Cross Halving Joints

It's matterless whether you make this joint (called a half lap here in the states) before or after the mortise and tenon. Begin by planing the machine marks off the sides of both pieces — this thins the pieces. If you leave it till after you've cut the joint, you'll make

While you can create the joinery of this Arts & Crafts table by hand or machine, the author chose a combination of a table saw, plunge router and joints cut by hand.

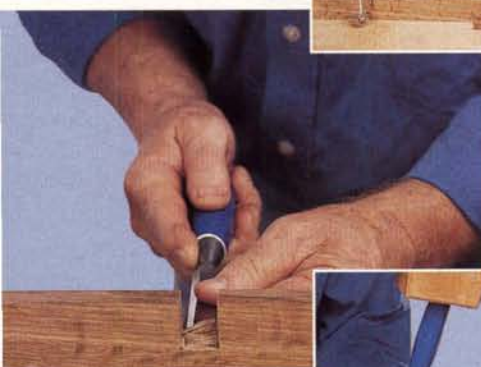




To make the cross halving joints, start by finding the center of the length of the rail and mark half the rail thickness on each side of it.



With the work held in a vise, saw down to the center mark. A coping saw can then be used to remove waste.



After removing the bulk of the waste with his saws, the author turns to his chisels and follows the knife lines to clean up the joint.



Forming the half laps

your nice tight joint sloppy. Find the center of the length of the rail and mark half the rail thickness on each side of it (I use a Swiss army knife as my marking knife). Hold one rail on the other to check your marking. Set a marking gauge to the center of the rail's width and mark each side. With the work held in the vise, saw down to the center gauge-mark, keeping about 1/16" from each side line. Remove the waste with a coping saw. To clean out the bottom, put a chisel which is 1/8" or so narrower than the joint into the gauge line. Use this line as your reference — you will feel the edge of the chisel clip into the gauge line. Then pare a gradient up from the line. Turn the workpiece round in the vise and repeat. You now have a sort of pitched roof in the middle with the line established on each edge. Finally, pare the joint flat, but don't undercut the base. Check it with a try square. In the same manner, clean the shoulders of the joint back to the knife line. (Remember, you held back just a bit from the line when sawing.) Because the white oak I used was hard, and you are essentially cutting end grain, I used a chisel and mallet to reduce the wear and tear on my shoulders and arms. In the end, use the knife lines to register the chisel accurately — light taps are all it takes.

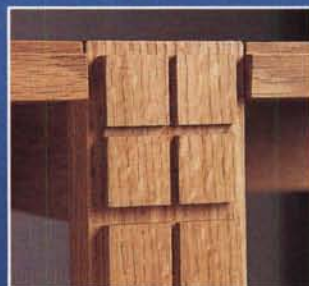
Shape the Parts

The typical Arts and Crafts motif of raised squares is made using a table saw and router. In European and UK woodworking language, the shape on the edge is a rebate, the shape down the grain or center is a groove, and the same shape plowed across the grain is a housing. They are good names which relate the orientation of a shape to the grain. Dado is not used as a descriptive word for these shapes, except in the States.

The rebate and center groove are accurately made using the top hold down and a side guide (feather board). It isn't OK to simply use fingers, because you can't retain constant pressure on the bed and fence as you move your hands to propel the workpiece.

The housing is done with a spiral bit in a router to reduce tearout and provide a flat bottom. (The dimensioned drawings provide the details.)

Making the Motif



A hold down and feather board are musts when machining decorative leg motifs on the table saw.



Subtle variations on a theme can be created with a table mounted router or specialty planes.



Clamping the leg assemblies ...



The legs must be square to the rails in all aspects. To ensure this, use a try square and a straightedge.



Next, sight across the frame to check for twist. The final check is for square by measuring that the diagonals are equal.



The final glue up engages both the cross halvings and the second set of mortise and tenons. Prefinishing aids in glue removal (right).



Clamping the First Subassembly

Since I use a plane whenever possible to remove the machine marks, I have to do this task before glue-up. Polishing these inside faces before I assemble speeds the finishing process and lets me remove the dried-up glue squeeze-out easily and cleanly. My preferred finishes are either oil or beeswax — to retain the color of the wood I've so carefully selected. Proper wood selection is a very significant aspect of building a superior piece of furniture, yet it is often given short shrift.

Once you have closed the joints with the clamp pressure, you have

to make three checks to ensure the accuracy of the assembly. The first is the alignment of the parts. The legs must be square to the rails, and this can be determined using a try square or holding a straightedge across the edges of the legs. Alignment is adjusted by moving the clamping blocks up or down the clamp shoe. The second check is for twist; the third check is for square by measuring that the diagonals are equal. (See photo sequence above).

The cross halvings are glued and clamped in the final assembly. The checks are just the same as for the subassembly.

Fitting the Top

Let's get back to the top. Since the legs come through, you have to cut it to its square dimension accurately and position the four cutouts by using the clamped up base as the guide. Using gauge and knife, mark out the leg cutouts. Remove the waste by hand or machine. Mark the top's octagon shape and cut the corners on a chop saw. Finally, rebate the top to marry the top with the edge of the legs, a straightforward task on a router table. Slightly radius the hard edges by hand with a piece of sandpaper. Now, a final polish, and the table is complete. And so is the design process, which began with a thought, continued with mock-ups and ended with my friend's contentment.



... and marking out the top's cutouts

Using the base subassembly as a guide, mark the leg cutouts onto the top.



Establish the cutouts with a knife, then lay out the top's octagon shape and cut off the corners.

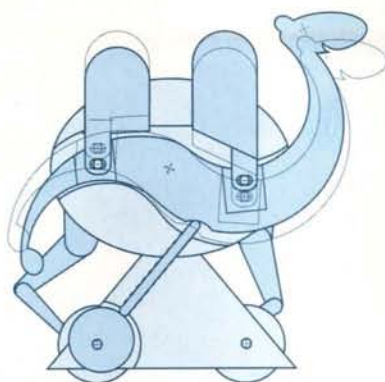


Camelia the Canterin' Camel

By John Hutchinson



Want to take your toys to the next level? The author does just that by incorporating key parts that serve to articulate his projects. Here's a camel whose humps, head, legs and tail all move as he's rolled forward.



The last words spoken in one of my favorite movies, *A River Runs Through It*, are "I am haunted by waters." I, on the other hand, am haunted by cartoons. So, when thinking about developing an animated character to add to my growing collection, the first image that came to mind was an old cartoon — a caravan of camels racing across the desert with humps reciprocating like pistons. Bringing this memory to life seemed like a worthy challenge, so I headed for the shop.

The Head and Tail

You can find a complete set of full-size drawings for this project beginning on page 38, and the first step in construction is to make two copies of these. Next, refer to the Materials List on page 36 to verify the thickness of each shaped part. With this in mind, rip and crosscut oak blanks and attach the pattern copies to them with spray adhesive.

Band saw the body (piece 1) to shape, cutting just outside the lines on the pattern. Then drill a 1/8" pivot hole at the location shown on the pattern.

Small tenons on the humps will eventually ride in mortises in the body. The front mortise is stopped, while the rear one goes all the way through the body. If you don't have access to a mortising machine or a drill press mortising attachment,

just use a 3/8" Forstner bit in your drill press for this operation. Since the mortises will be hidden within the camel, and the fit is supposed to be quite loose, Stickley-quality workmanship isn't mandatory here.

While you have the 3/8" bit chucked in the drill press, drill a through hole at the eye location. Sand the body and slightly round the outside edges, then go ahead and glue the walnut eyes (pieces 2) in place.

Belly Building

Cut the two oval bellies (pieces 3) to shape using the provided patterns. Drill three 1/8" alignment holes at the locations shown on the pattern, then mark the top of each belly with a penciled X, so you're sure of the correct orientation in later steps. Use a utility knife to carefully score through the paper pattern, right along all the body spacer alignment



The author uses a testing jig to test the moving parts in his designs. The additional holes seen in this prototype are not included in the final piece.





Figure 1: After attaching a full-size pattern to each blank, band saw close to the line and finish up with a sander.

lines. This is a handy way to exactly transfer the spacer locations from the pattern to the wood. Using a spindle sander, sand carefully to the lines on the pattern. Once you're done with that, you can remove the paper patterns from the bellies.

Cut the body spacers (pieces 4 through 7) to size next. Cut right to the lines on the pattern where the parts will be internal to the camel's body, but just a little outside of the line where it will stand proud of the body; you'll sand them flush later.

Round over the outside edges of the bellies with a bearing-guided $3/8"$ bit in your router table. Now it's time to glue and clamp the spacers to one of the bellies (don't glue the second one in place yet) and let it dry. Move back to your spindle sander and smooth the spacers to the edge of the belly.

Making the Humps

Begin making the humps (pieces 8 and 9) by ripping a 12" long piece of stock to the thickness and width required. Attach the hump patterns to this stock, with the tenons at the ends and the rounded top of each hump toward the middle of the workpiece. Drill an elongated $5/16"$

pivot hole in each hump, where the tenon will be cut. This hole's location is shown on the pattern. Create it by drilling a series of holes on the drill press, then clean them up with a round file.

Mill the tenons next. This is safer on a 12" long workpiece than it would be on the individual humps. Reveal the cheeks on the table saw with a dado head and your miter gauge, then band saw the shoulder to shape. Stay at the band saw to cut the humps free of the 12" piece of stock, then sand flush to the lines. Round over both faces of each hump, using a $1/4"$ bearing-guided bit chucked in your router (use your router table).

The Pyramid Base

We travel to the mystical land of pyramids to create the base. From $3/4"$ walnut, cut the inner pyramid (piece 10) to shape. The trickiest element of making this part is drilling the $5/16"$ hole through it. The location of this hole is shown on the pattern. Clamp the workpiece to your drill press fence at the appropriate angle, then band saw a wedge of waste lumber to support the part at this angle while you drill the hole. Make sure the centerline of the bit lines up perfectly with the centerline of the hole pattern before you begin.

From $1/4"$ walnut, cut the outside pyramid layers (pieces 11) to shape. Glue and clamp them to the inner pyramid. After the glue dries, sand all edges flush and drill the two axle holes at the locations shown.

Glue the assembled pyramid to



Figure 2: The loose mortises in the body can be chopped on the drill press: A mortising attachment is not necessary.

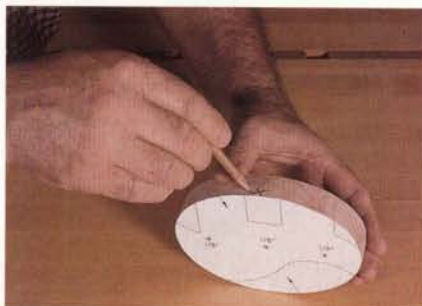


Figure 3: Mark the top of each oval belly with an X, so you can tell which way they should be oriented later on during assembly.

the belly that has the spacers attached to it, making sure that the inner pyramid lines up horizontally with the spacers. Then, with a long $5/16"$ bit, and using the hole in the base as a guide, continue the pushrod hole up through the lower body spacer.

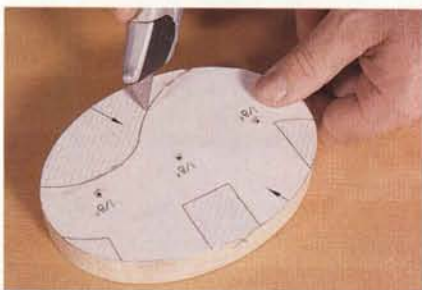
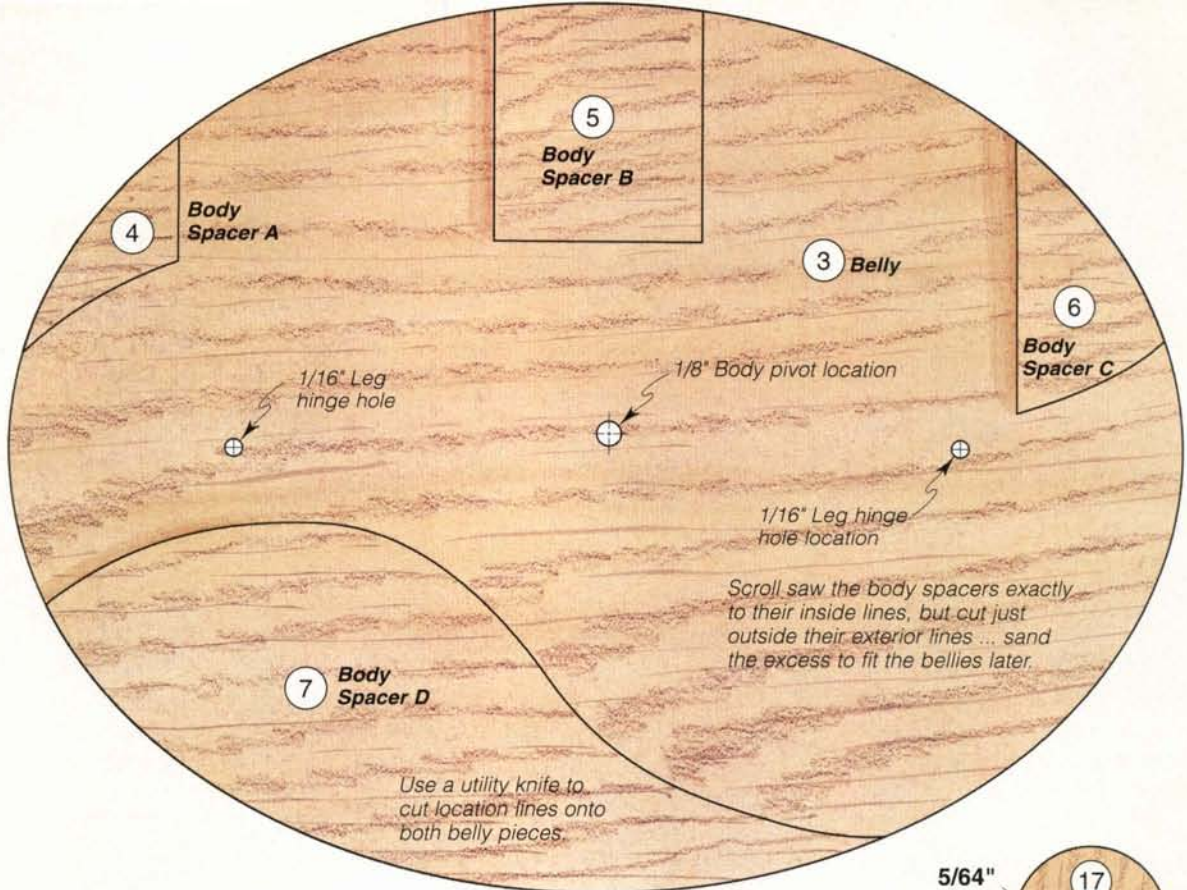


Figure 4: Use a utility knife to scribe the outlines of the body spacers, so you still have alignment lines after the paper is removed.



Making the Wheels

Band saw the four wheels (pieces 12) and the cam (piece 13) to shape, then use the sanding jig shown below to sand their edges right to the pattern lines. The wheels are equipped with two O-ring tires each (pieces 14), for traction. These are set in V-grooves in the edges of the wheels. Make your wheel sanding jig from a 3/16" threaded rod, a nut and two rubber-backed washers.

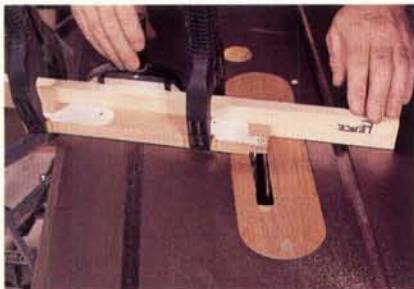
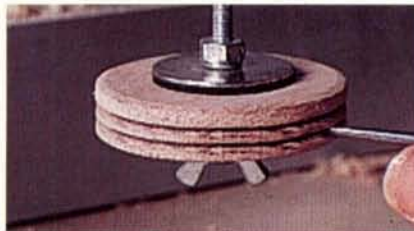
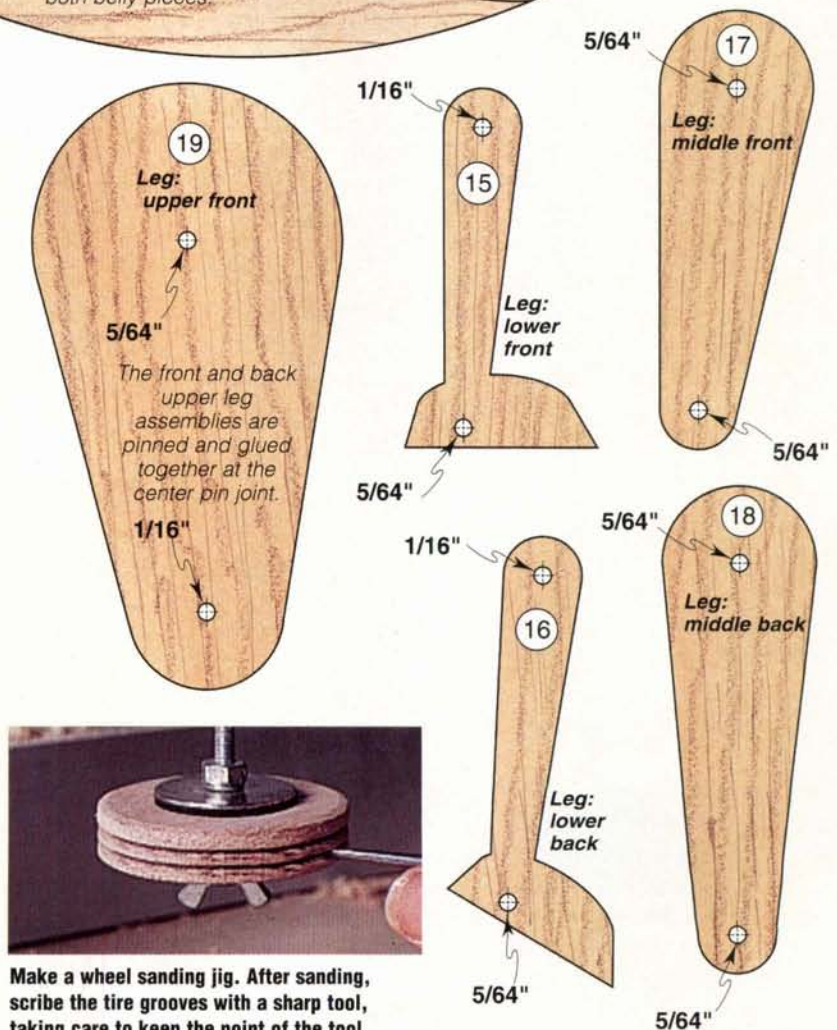
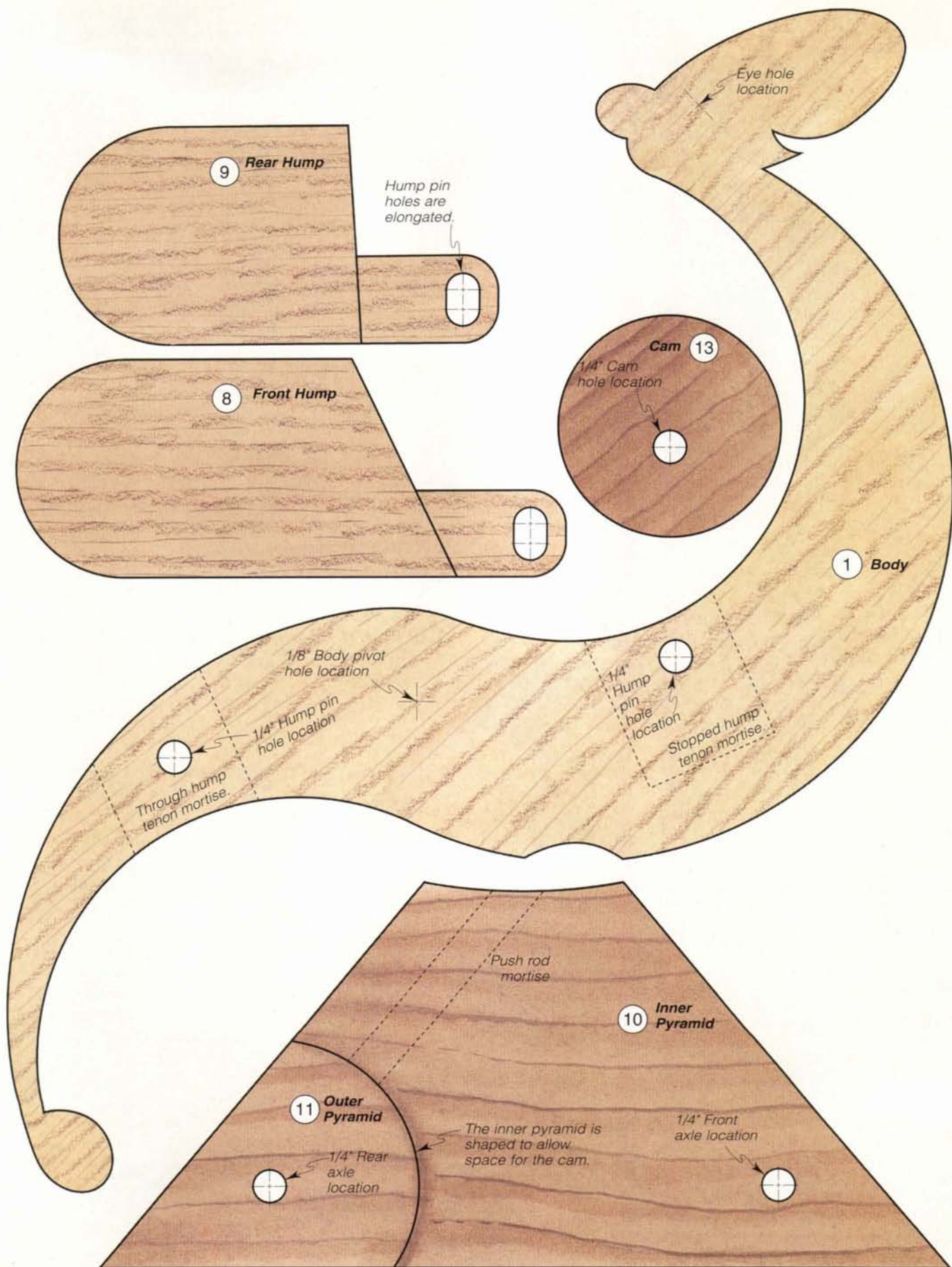


Figure 5: While they are still part of a larger piece of stock, use a dado head to safely reveal the cheeks on the hump tenons.

Cut your wheels a bit oversized and then sand them round on your jig. Next scrap the grooves for the O-ring tires. On the cam, you'll have to plug the center hole with a dowel and glue, then drill the eccentric axle hole as shown on the pattern.



Make a wheel sanding jig. After sanding, scribe the tire grooves with a sharp tool, taking care to keep the point of the tool pointed away from the wheel's rotation.



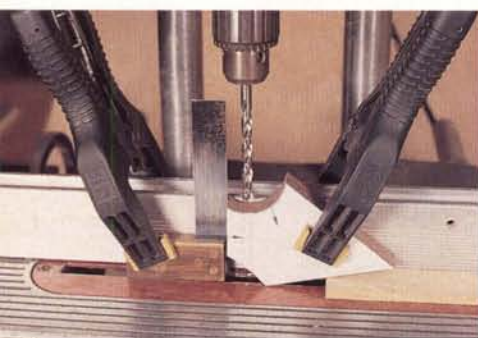


Figure 6: Use clamps and a scrapwood wedge to secure the inner pyramid at the correct angle while drilling the pushrod hole.

Scroll or band saw the twelve leg parts (pieces 15 through 19) to shape, then drill the two holes in each at the locations shown. As you drill, note which are 1/16" capture holes, and which are 3/32" pivot holes. Then sand the leg parts, gently breaking the edges. Now look to the leg position drawing on page 36. The upper assemblies of the front and back legs are glued and then pinned to give the leg a proper dromedary stride. Place a drop of glue at the joint, and drive the brass pin through the pre-drilled hole and into a piece of scrap softwood. After the glue has cured, pull the piece free and clip the pin flush. Remember, there are right and left leg assemblies.

Samuel Appleget is pleased with this toy for all seasons.



Finish and Assembly

I wanted to impart a camel color to the oak, and Michael Dresdner's article in the August 2000 issue put me on the right track. I went with a water soluble wood dye instead of a stain. Early American Maple from Transfast™ worked like a champ. Follow the manufacturer's instructions to dye all the oak parts, then apply a wipe-on tung oil and a urethane topcoat (mask off the areas yet to be glued) to all the toy's parts, including the walnut ones.

When the finish is dry, position the pivot point of the body over the center hole in the belly with the spacers attached. Temporarily insert an 8d finish nail to keep it in place. Slip the hump tenons into their mortises in the body, and keep them there with 1/4" hump pins (pieces 20). These can be glued to the body, but not the tenon.

Hold the cam in place between the rear axle holes and run a length of 1/4" dowel (the rear axle, piece 21) through the axle holes and cam. Secure the cam to the axle by first drilling a 3/32" hole through the short length of the cam and on through the axle. Insert a round toothpick (piece 22), loaded with glue, and sand it flush when dry.

Cut a piece of dowel to make the pushrod (piece 23). Round over its ends and test the fit until the rod is long enough to lift the head fully, but not so long that it binds. When you are satisfied with the fit of the pushrod, glue the second body half in place, (to the spacers, not the body!). Replace the 8d nail with the Body Pivot Pin (piece 24) for this step, to keep things lined up.

Giving the Project Some Legs

Glue the back wheels to the rear axle, making sure that the foot capture holes are opposed 180°. Install the front wheels on their axle, again making sure that the wheels' capture holes are opposed. Assemble the legs in right- and left-hand orientations, hinging them to the bellies with 3/4" leg hinges (pieces 25). All of the other joints are pinned so they move easily enough to let your Bactrian bob along freely over the desert dunes.

John Hutchinson is an Ohio architect with a passion for articulated toys and a keen memory for cartoons. His cricket xylophone was featured in our December 1998 issue and his popular dragon toy was presented in our April 2000 magazine.

Circle-cutting Jig II

By John English

A versatile and easy to build jig will have you cutting circles of virtually any size in no time. The perfect complement to the author's earlier jig.



One year ago, my good friends Howard and Sally asked me to make a circular frame for their new baby photo. I was thrilled to be asked and put their name on my job list, mentioning that it might take a month or so to get to it.

Last week, Howard called to let me in on some big news: they were expecting again! I immediately volunteered to make a second photo frame, but then, with

The author's standard circle jig was featured in the June 1999 issue of *Woodworker's Journal*.



Figure 1: Use your regular circle-cutting jig to create the Plexiglas™ disk at the heart of the new jig. Back up the cut with scrap plywood.

a sinking feeling, I realized that I still hadn't got around to the first one! An hour later, in the shop, I knew I was in big trouble. Circle-cutting jigs all have one thing in common: they cut a radius equal to the distance between the router bit and the pivot. The size of the router base limits how short that distance can be. On my current jig, the smallest circle I could cut was 10", but the inside diameter of the photo frame needed to be less than 6". The only solution was to build a new jig that didn't involve a pivot point.

A Plexiglas™ Disk

To eliminate the pivot point, I decided to mount the router on a large disk that revolves inside a frame. To use the jig, the frame is centered on the workpiece and clamped in place. You can change the diameter of the circle simply by changing the position of the router on the disk. Clear Plexiglas™ works best: you can see better to position the router bit correctly.

Use a regular circle-cutting jig to cut the disk (piece 1) to the dimensions given in the **Material List** at right (see **Figure 1**). After routing the disk, gently break the top and bottom edges of the disk



Figure 2: Center the Plexiglas disk on the sheet of MDF that will become the top of the jig, and scribe around the edge with a pencil.

with sandpaper. I cut the top and bottom of the jig (pieces 2 and 3) to size from a sheet of sturdy MDF (medium density fiberboard).

Center the disk on the jig top and mark around its edge with a pencil (see **Figure 2**). Then use your regular circle-cutting jig to plow the rabbet in the middle of the top that supports the disk (see **Figure 3**). Use the same jig to create the large hole in the center of the top. Look to the **Jig Top Elevation** below for key measurements.

Finish Building the Base

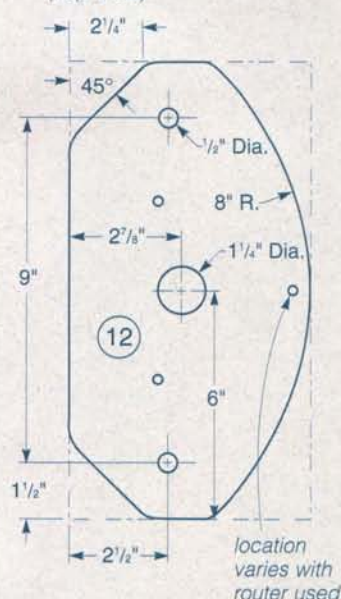
The safest way to secure work in this jig is to attach it to a sacrificial piece of 1/4" scrap plywood, then clamp the plywood in place. That way, if you cut through the workpiece, you won't cut into the jig, too.

With that in mind, you'll need a full inch of clearance between the jig top and bottom (1/4" for the plywood and 3/4" for a standard workpiece). Accomplish this by installing two spacers (pieces 4) on the jig bottom. Secure these with glue and countersunk screws.

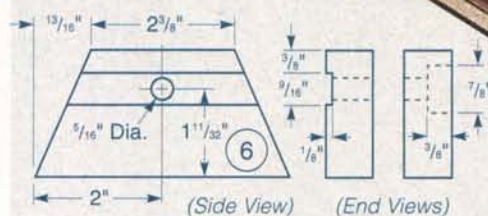
A pair of cleats (pieces 5) are then glued and screwed in place to add a bit of strength (see the **Base Elevation** at right).

Router Mount

(Top View)

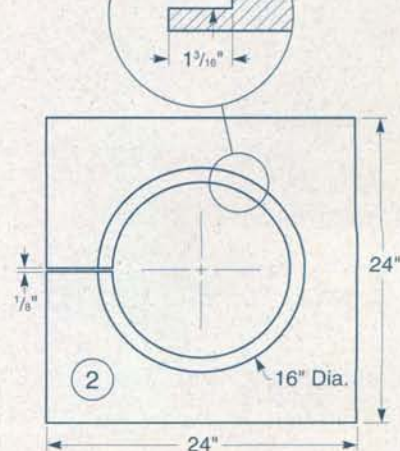


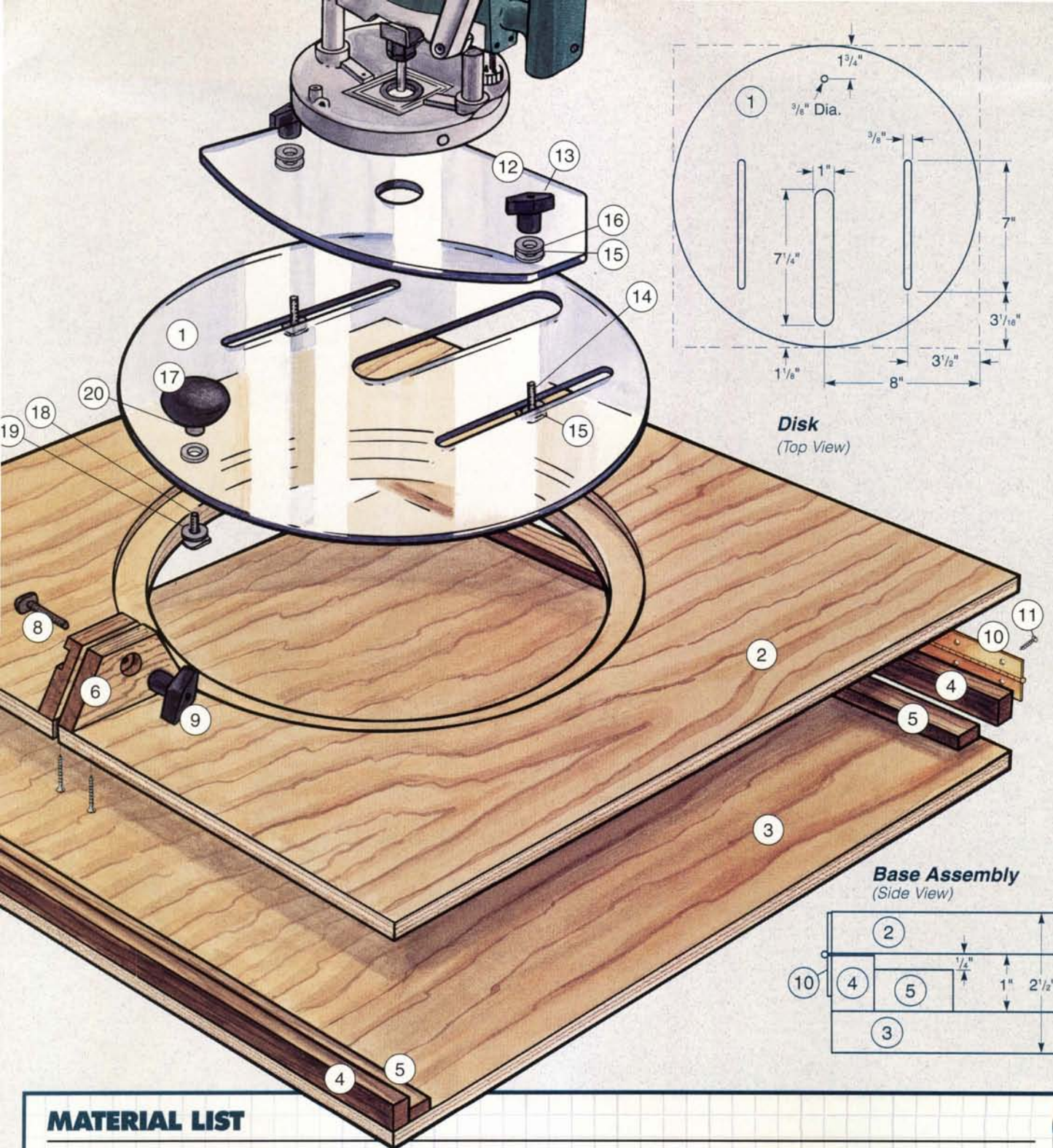
Torque Adjustment Plates



Jig Top

(Top View)





MATERIAL LIST

	T x W x L		T x W x L
1 Plexiglas™ Disk (1)	1/4" x 16" Dia.	11 Hinge Screws (20)	Brass
2 Jig Top (1)	3/4" x 24" x 24"	12 Plexiglas Router Mount (1)	1/4" x 6 1/2" x 12"
3 Jig Bottom (1)	3/4" x 24" x 24"	13 Router Mount Knobs (2)	5/16" - 18 x 2" T-knob
4 Spacers (2)	3/4" x 1" x 24"	14 Router Mount Bolts (2)	5/16" - 18 x 1 1/2" T-bolt
5 Centering Cleats (2)	3/4" x 1 3/8" x 24"	15 Router Mount Washers (4)	3/8" ID
6 Torque Adj. Plates (2)	3/4" x 2" x 4"	16 Router Mount Lock Washers (2)	3/8" ID
7 Torque Adj. Plate Screws (4)	#8 x 2"	17 Guide Knob (1)	5/16" - 18 x 2" Ball knob
8 Torque Adj. Bolt (1)	5/16" - 18 x 1 1/2" T-bolt	18 Guide Knob Bolt (1)	5/16" - 18 x 1 1/2" T-bolt
9 Torque Adj. Knob (1)	5/16" - 18 x 2" T-knob	19 Guide Knob Washers (2)	3/8" ID
10 Piano Hinge (1)	1 1/8" x 24" Brass	20 Guide Knob Nut (1)	5/16" - 18

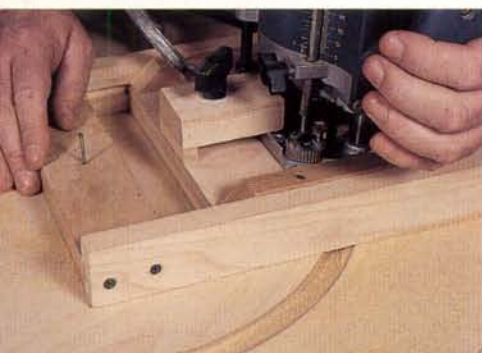


Figure 3: Use your regular circle-cutting jig to reveal the recessed rabbet in the new jig, and to remove the waste from its center.

The Top is Adjustable

The odds that the Plexiglas™ disk will fit perfectly in its rabbet (without any play) are very slim. Fortunately, there's a simple remedy: you can make the top adjustable by cutting a kerf in one of its edges, then adding a built-in clamping device. (See the **Exploded View** on the previous page.) This allows you to adjust the jig so the disk revolves freely, but without slop.

Before attaching the torque adjustment plates to the jig, you need to plow some grooves in the disk (see **Disk Groove Elevation**). Using the jig as a clamp, set the disk in its rabbet and secure it with a bar clamp. Doing this now makes sense because the torque mechanism would be in the way if it were installed first. Locate the grooves and mill them with a straight bit, guiding your plunge router with a clamped-on straightedge (as shown in **Figure 4**).

Begin building the torque adjustment mechanism by cutting the two plates (pieces 6) to size. Plow a dado in one face of one plate, then temporarily clamp them together and drill a hole through both (see the **Torque Adjustment Plates Elevation**). Counterbore the hole in the second plate and band saw both plates to their final shape. Then sand the sawn edges smooth.

Attach the plates to the jig top with glue and screws (pieces 7), driven up through the bottom of the jig top into piloted, counter-sunk holes. After the glue has fully cured, insert the T-bolt and knob (pieces 8 and 9).

Attach the jig top to the bottom with a piano hinge (piece 10), securing it with screws (piece 11) driven into pre-drilled pilot holes, as shown in **Figure 5**. Align the top and bottom perfectly and clamp them in place as you set the hinge.



Figure 5: Predrill pilot holes for the screws in the continuous hinge that keeps the top and bottom of the jig properly aligned.

At this point, it's a good idea to sharpen your pencil and draw a series of concentric circles on the base (**Figure 6**). Make them 1" apart to help you center stock under the disk. This will minimize waste as you use the jig.

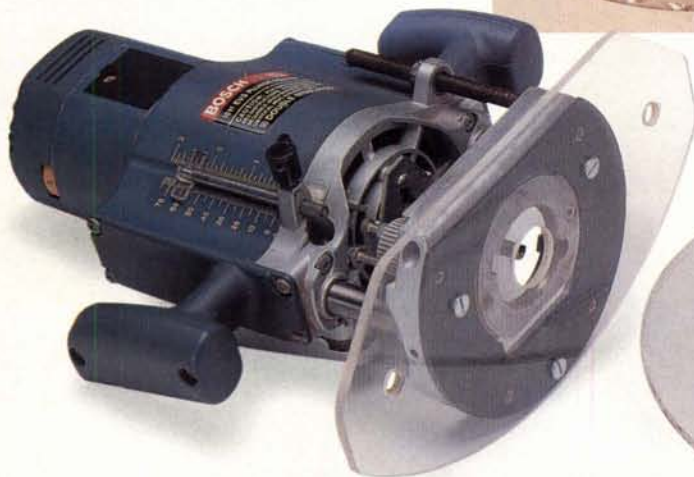
Mount your Router in the Jig

Virtually any plunge router will work with this jig. You can also use a standard machine as long as the bit height is set by screwing the motor housing into the base. Routers with a motor housing that slides freely up and down in the base until locked in position are not a safe option.

The long edge of the router mount (piece 12) matches the

Figure 4: With a kerf cut through one edge of the jig top, clamp the disk in place and use a straightedge to mill the various grooves.

Different routers will vary to some degree. Mount your router to a Plexiglass™ plate. Holes drilled in that plate will match the slots created in the circular disk.



diameter of the disk, while its back edge is shaped to match the router base. On a piece of Plexiglas, lay out the basic design shown on the **Router Mount Elevation**, then make any necessary changes to accommodate your specific router. Band saw it to shape, sand the edges and drill the two large holes shown on the drawings: these house the knobs, bolts, washers and lock washers (pieces 13 through 16) that make the mount adjustable and lock it in position. Mark, drill and countersink holes for the screws that keep the router's sub-base in



Figure 6: Draw a series of concentric circles 1" apart on the base, to center the workpiece under the router and minimize waste.

place, then remove the sub-base and install the router on the new Plexiglas™ mount. Attach the mount to the disk with T-knobs.

A free-turning guide knob (piece 17) makes revolving the disk a lot easier. Drill a hole for the knob, installing it with a bolt, two washers and a nut (pieces 18 through 20). The knob should spin freely after the nut is tightened.

With that done, now it's time to fire up your router and start cutting rings. Some simple project ideas are shown at right.

Putting Your Jig to Work

You can cut inside or outside circles with this jig, in stock up to 3/4" thick for a through cut or 1" thick for a stopped cut. The outside diameter of your cut depends on the size of your router's base, but most routers will allow a circle up to about 12" in diameter.

The key to safe, good results is securing the workpiece properly. Judicious use of double-sided tape and drops of hot melt adhesive are the keys to keeping your material stationary throughout the machining process. (See photo at right.)

I also regularly use a piece of scrap sheet stock (secured in place with hot melt or tape) under the workpiece. This allows me to cut completely through my stock and avoid accidentally routing the bottom of the jig.

As with many shop jigs, the creativity of the user is the only limit to its usefulness.



The jig works well with straight bits to cut circles, but it's easier to mill decorative edges on a standard router table.



Locate spots of hot melt glue under each of the parts you are making, so that when a part is cut free it can't fall into the revolving bit.

Routing perfect circles allows you to create an unlimited number of projects and decorative motifs.

John English is a contributing editor with Woodworker's Journal. His articles appear regularly in our pages.



Class with a Woodworking Legend

By Joanna Werch Takes

Remember summer? I spent part of mine with a master woodworker and discovered ...

Sam Maloof has groupies. The 84-year-old woodworker presented a sold-out weekend class at the Anderson Ranch Arts Center this summer, attracting 25 registrants — plus hangers-on — who watched in awe as he constructed two residential swivel chairs. Sam's comments, like "At home I have a pattern for this arm, but I'll just do it freehand," prompted as many oohs and aahs as the class's setting against a backdrop of Colorado's Rocky Mountains. And when a chipmunk scurried across the floor right in the middle of one of Sam's band saw operations, he didn't even blink.



"Eighty percent of the work that goes into a piece of furniture I make is handwork," says Sam Maloof. In fact, he started his woodworking career nearly 50 years ago with six hand tools his father-in-law had left him, and the occasional borrowed table saw.



Maloof

Over 4,000 Pieces

Of course, Sam has been concentrating on his woodworking for a long time: he started making furniture for sale over 50 years ago. So far, he estimates he's made about 4,500 pieces. Next year, the Smithsonian Institution will stage a retrospective of his work, greatly aided by the records his late wife, Alfreda, kept of every piece since the beginning.

"My wife was the heart and soul of what I did, and is still the heart and soul of what I do," Sam said. Although Alfreda didn't work outside the home after their marriage, she was an important part of building up Sam's business.

These days, it's been built up so successfully that chairs Sam sold for \$35 to \$40 in the 1940s and 50s are going for around \$35,000 at the high-end auction houses.

Sam hasn't always been a woodworker, though. While he played around with wood as a little boy, he also flunked out of his high school woodshop classes. "It was the heart of the Depression. I thought they'd have wood there to use." They didn't and, unable to afford the supplies, Sam said, "All I did was wax tabletops."

After graduating, he worked for a while as a graphic artist, making furniture for his own apartments

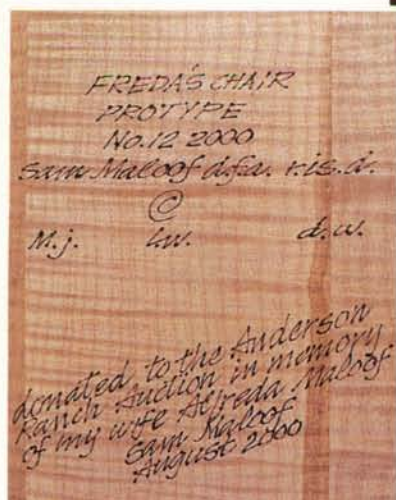
and for the house he and Freda moved to as newlyweds, often using cheap material like railroad dunnage. Then, with his wife's encouragement, Sam went into business for himself. "I didn't want to work in two dimensions anymore; I wanted to work in three dimensions," he said. His experience making his own furniture led him to choose it as a career.

"Three-dimensional Calligraphy"

Gail Fredell, director of the woodworking program at the Anderson Ranch, says she can see the influence of Sam's graphic arts background on his woodworking.



"You shouldn't do what I'm doing here, really," was Sam Maloof's comment as he shaped a chair seat's curve with a band saw. Anderson Ranch woodworking program assistant Kristina Goransson held his workpiece steady as Sam used a grinder for the finishing touches.



Sam Maloof donated a chair, right, to this year's Anderson Ranch fundraising auction. Created in memory of his late wife, Alfreda, the prototype chair went for \$120,000.

While his designs are often described as organic, she says the connection struck her when she saw a slide show that included some of Sam's lettering as well as his woodwork. "His work is three-dimensional calligraphy," she said.

Sam himself says the ideas for his different designs come out of his head. He knew several of the 20th century's big names in woodworking, like Charles and Ray Eames, but, since he was working at the same time they were, doesn't



think they had any great influence on his work. Even the Danish Modern and Japanese influences that some people have seen in his work are movements that Sam became aware of after he was well into his career. Asked what style his work was, he commented, "People call it 'Maloof.'"

One Maloof chair, he explained, can spawn ideas for five more. "If you read the Bible, there's an awful lot of 'begets,' and that's the way it is with furniture: one design begets another," Sam said.

Band Saw Is His Pencil

With all those ideas, Sam is still making about 50 or 60 pieces a year. He has enough orders to keep him busy for the next 10 years, especially since he insists on doing most of the work himself. "Everything that goes out of my shop, I put together," Sam said.

He insists on quality work, too, with particular emphasis on his chairs providing sufficient lower back support. "It doesn't matter how beautiful the workmanship is on a chair. If it doesn't sit well, it's a lousy chair." After cutting a spindle, he holds it to his own back so it feels good, and sits in his chairs until they feel right. Through this method,

Sam said, he's made chairs that have fit a wide variety of people.

His Anderson Ranch students wanted to know Sam's secrets for other aspects of his chairs, too. How concerned is he with symmetry, one asked. "I just do it according to my eye," Sam answered. "I use the band saw as my pencil" to sketch out the lines. Another questioner asked how Sam judges the moisture content of his wood. "I don't pay any attention to it," was the reply. "I know my wood." He did allow, however, that

"It doesn't matter how beautiful the workmanship is. If it doesn't sit well, it's a lousy chair."
— Sam Maloof



Those who attended Sam Maloof's workshop at the Anderson Ranch appreciated the chance to watch a master at work. Sam's own comment: "One of the good things about working with wood is you meet a lot of people."



"I always keep a few kinds of washers" around the shop, Sam said. He uses them for tracing the holes he's about to drill.

he sometimes has difficulty with wood moisture in more humid parts of the country than his southern California home. How about choosing wood — does he base it on the grain? "I put the side of the wood up that's the nicest," Sam said. He'll use sapwood or slash grain, as well as quartersawn.

Using these philosophies, by the end of the weekend, Sam had nearly completed two more of his distinctive chairs — and swept another group of woodworkers under his spell.



"One of the first things people do with handmade furniture is rub their thumb over it" — the bottom and the top — Sam said.



Anderson Ranch: Summer Camp for Adults

"Summer camp for adults" is a common description of the Anderson Ranch Arts Center near Aspen, Colorado. Students in woodworking, ceramics, painting, sculpture, and more gather for workshops with teachers and visiting artists who are well-known in their field.

Despite the "big names," says marketing associate Dása Bausová, the Ranch provides a welcoming atmosphere to all skill levels. In a woodworking class, for example, "You might have a beginner next to someone who makes a living doing woodworking," she said.



Woodworking classes meet in the two-story Sam Maloof Wood Barn.

The physical setting is camp-like, too. The buildings which provide classroom, cafe, dormitory and office space include converted barns from the original sheep and cattle ranch, and magpies and chipmunks are frequent visitors.

For humans, scholarships are available — including some for woodworkers endowed by Sam and Alfreda Maloof. If you want to find out more info about the Anderson Ranch, give them a call at 970-923-3181.



One kids' woodworking class produced clocks.



The Ranch also offers kids' programs, like this totem pole class.



Weekend instructor Sam Maloof posed with *Woodworker's Journal* associate editor Joanna Werch Takes (front, center) as well as Anderson Ranch staff Brad Nelson, front, and Kristina Goransson, Steven Mankouche, Gail Fredell and Craig Vandall Stevens.

Biscuit Joiner Roundup

By Charles Self



On the surface, one biscuit joiner looks similar to another and, after all, they only do one thing. So, why do they vary so much in price? The answer is in the features ...

Biscuit joiners cut slots for thin, football shaped pieces of wood. When coated with glue, these biscuits expand, tightening appreciably in the joint. They are generally more versatile and easier to use than traditional dowel joints, which they have largely usurped.

At one point, there were only three biscuit sizes available, but that range of options has now grown. A couple of manufacturers now offer downsized biscuits designed for joinery in small projects. This eliminates one of the major faults of early biscuit joinery: the arc cut by the standard 4" blade required stock that was wider than traditional cabinet, picture and mirror frames. Ryobi was first to answer that call (with their RBJ joiner that takes three sizes of tiny biscuits). Porter-Cable soon followed with FF biscuits and a 2" blade that can be switched with the standard 4" cutter in their Model 557.

For this test I looked at models from Craftsman, DeWalt (who offer the only cordless version), Freud, Lamello, Makita and Porter-Cable. Freud sent two models, as did DeWalt. So, let's begin with the first model to arrive at the shop ... the Craftsman.

The Craftsman 009.277300

The most obvious feature of the Craftsman, and the one that distinguishes it from every other model I tested, is that its top control handle is a round knob rather than a D-shaped bar. The knob is sizable and fits well in your hand: I liked it, but perhaps that's an individual taste.

Like the DeWalt models I discuss later, the Craftsman also features a shoe that extends out from the sides. This allows it to be clamped to a bench and used as a stationary model in light production situations. I'll give a dollar to the person who can show me any difference between this fence and those on the DeWalt models. (That's not a criticism.)

The 4" carbide tipped blade on the Craftsman is six toothed, and the fence adjusts from 0° to 90°. The tool is equipped with a 6.5 amp motor that revs up to 10,000 rpm. Fence adjustment is easy: the height is controlled with a dual rack and pinion arrangement that responds smoothly and easily to the



Craftsman 009.277300

Price: \$179.99
Phone: 800-349-4358
www.sears.com



With its round control handle, clampable base, carbide-tipped blade, built-in dust collection and rack-and-pinion fence gears, this is Sears' workhorse model.

adjustment knob on the side. The Craftsman's power switch is under the barrel, and the tool's action and cutting are both smooth.

The 009.277300 model catalogs for \$179.99 plus shipping.

The freud JS100A

Freud presents two versions of its biscuit joiner, with both sharing the same barrel and a slide switch near the front left of the tool. Their 4" carbide tipped blades are driven by 5 amp, 10,000 rpm motors. To meet its super low price point, the JS100A offers no special fence adjustments. You work at 90°, or reverse the fence top (slide it up and off and flip it end to end) and work at 45°. Height adjustments require that

you slide the fence up and down — the cast in markings are not super-accurate, so measuring is a good idea. The fence lock is solid, if simple, and the JS100A sells for around \$99.99.

freud's JS102

Stepping up to the JS102 costs an extra \$25, but even though the only change is in the fence, the upgrade is worth the money. Adjustments are still by slide and push on the loosened fence, but there are dual metric and inch scales that are accurate enough for almost all biscuit joinery. The handle is comfortable, as is that on the lower cost model, and the fence adjusts from 0 to 90° with a very legible scale. This biscuit joiner, when

Shop Test continues on page 52 ...

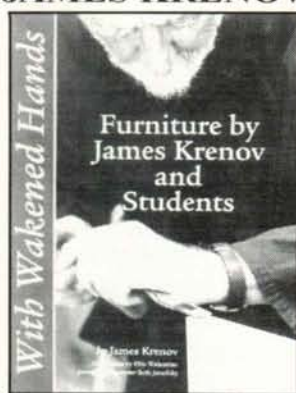
freud JS100A and JS102

Price: \$99.99 and \$124.99
Phone: 800-472-7307



These two models share everything except fence adjustments. The lower priced model (JS100A) lacks its partner's metric and inch scales while offering only two work angles: 45 and 90°. Both are sturdy, adequately powered and competitively priced.

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**DeWalt's new
DW932K, powered by
an 18-volt battery
pack, is the only
cordless biscuit
joiner available.**



found on sale, is probably the sleeper of the bunch. It is sturdy, has enough power for anything but massive runs, and allows sufficient adjustment for 99 percent of the work you'll ever do with a biscuit joiner. The model JS102 goes for \$124.99.

DeWALT's DW682K

This is the corded version of the company's two biscuit joiners. The fence on this unit is nicely machined. It's a dual rack and pinion version with the knob on one side, and it delivers fast, accurate height adjustments in a range from 0 to 90°. It moves the marker up and down the scale quickly, and it comes equipped with a lock knob that ensures that what you set, stays set.

The single heavy duty return spring is exposed, but should stay clear of sawdust and other grit. If not, it can be easily blown clean. DeWalt uses a 6.5 amp. motor on this model, and a D-handle that

is comfortable and fits the hand well. An included dust bag does a decent job of grabbing waste. The switch is under the barrel towards the rear, a standard but solid feeling trigger big enough for two fingers.

This model shows up in catalogs for \$159.99.

DeWALT's DW932K

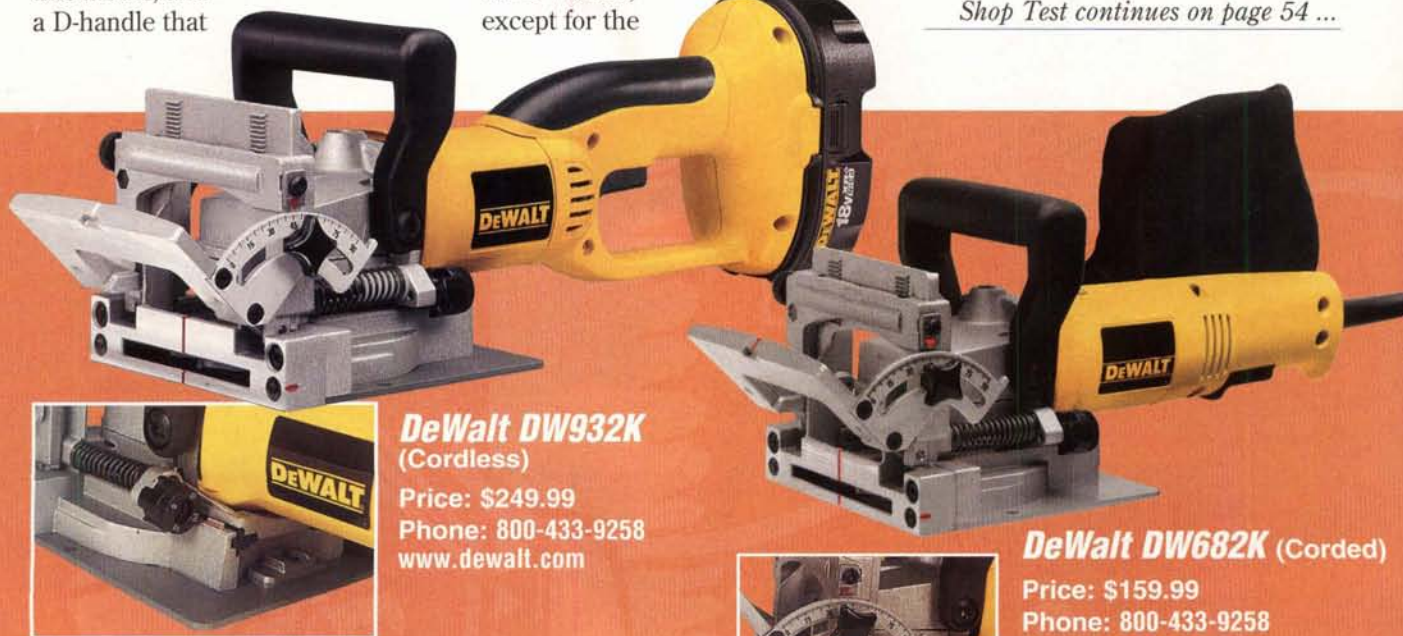
The only cordless joiner in my test, the unique 932K is powered by an 18 volt battery. Features are nearly identical to the DW682K, except for the

battery and motor casing, the need for a charger, and the whopping price increase (an extra \$90) caused by those two. It is also weightier and very tail heavy with that huge battery. It delivers 6,000 rpm as opposed to the 10,000 on its corded parent, but it does have the same excellent fence.

Retractable anti-slip pins are in place, as they are for the preceding three biscuit joiners. Torque tends to work these tools slightly to the right during use, so some form of mechanical hold is needed to keep that from happening.

DeWalt saw a strong enough need for a cordless biscuit joiner to develop one. Personally, I can't think of any situation outside of construction sites where such a tool would be necessary. However, it may just be the perfect answer in some production situations. The DW932K cordless joiner retails for \$249.99.

Shop Test continues on page 54 ...



DeWalt DW932K (Cordless)

Price: \$249.99
Phone: 800-433-9258
www.dewalt.com

DeWalt DW682K (Corded)

Price: \$159.99
Phone: 800-433-9258
www.dewalt.com

Nearly identical to its corded cousin (at right), the 932K features an 18-volt battery that makes it somewhat tail heavy ... and quite a bit more expensive. The battery pack delivers an impressive 6,000 rpms.

Dual rack and pinion fence adjustments deliver fast and accurate height adjustments from 0 to 90°.

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SHOP TEST



Lamello Classic C2

Price: \$314

Phone:

781-585-4364

www.lamello.com



The original biscuit joiner is still among the best. The updated C2, the smoothest operating of all the machines tested, is a production unit that delivers unmatched accuracy and durability.

Lamello's Classic C2

Lamello did not develop this as a hobbyist's tool: it's aimed at making Lamello quality available to smaller cabinet shops. It's a heavy-duty design with Swiss precision from the company that started the biscuit craze. The tool is exceptionally well made. Where it matters, nothing has been spared, but the matte finish of the entire fence may come as a shock, as may the adjustment system

on the fence: it's similar to that used on the Freud. No money is spent on rack and pinion, though there is a nicely made pair of imperial-only height measurement rules. There are three grooves cut in the fence adjuster arc, but they are unmarked.

In use, the Lamello begins to shine. It is the smoothest of all the machines, and biscuit size adjustments are easily made. The slide switch is on the barrel (similar in position to that on the Freud, but larger and smoother in operation). The motor lists as 720 watts, or 6.4 amps, running at 10,000 rpm, which is up there. This is a superb tool that may be out of the hobbyist's range because of its higher price for fewer features. But if

durability and precision are required, the Lamello is definitely the way to go. The Classic C2 sells for \$314, UPS paid, from distributor Colonial Saw.



Makita 3901

Price: \$159.99

Phone: 800-462-5482

www.makita.com



Makita's engineers were thinking of the operator when they designed the 3901's fence angle and height controls: both are as fast and effective as the joiner's biscuit size adjustments.

The Makita 3901

This 5.6 amp biscuit joiner features the industry's standard D-handle, with a slide switch located near the front left of the barrel. Brushes are easy to get to and change, and the motor revs at 10,000 rpm. The flip lock for the fence height is great, and the scale for height is easily read. Adjustment is rack and pinion (a single one on the left side). The scale for degrees is marked, but is cast in type on the adjuster arc, which removes half its value. The angle locks with the same kind of flip lever as does the height: both are fast and effective. Biscuit size adjustments are readily made, and hold in place well, though the matte finish knob seems a little sloppy in action. Makita uses a rubber/plastic facing to keep the joiner from torquing off its marks. Action is smooth and accurate, and the 3901 lists at \$159.99.

Porter-Cable's 557

The 557 is the only joiner in our test that came with both 2" and 4" blades. The 2" blade lets you use smaller FF (face frame) biscuits. Fence height adjustment is by center screw thread. The distance scale is clear and was set accurately on the test machine, but can be adjusted. Angle adjustment is easy, fast, and pops right in. Markings are exceptionally clear from 10° to 90°, and the scale is adjustable. Angles past 90° to 135° require a slight effort. A special alignment plate is included for use with narrow stock (FF biscuits). The biscuit size adjustment works with a snap, and holds position securely. The tool's power switch is a trigger type at the rear underside of the barrel,

Shop Test continues on page 56 ...



Porter-Cable 557

Price: \$199.99
Phone: 1-800-487-8665
www.porter-cable.com

Unique in our test, this model comes with 2" and 4" blades, allowing the use of both standard sized biscuits and the smaller FF variety. The latter are designed for thin stock applications such as cabinet face frames and picture frames.



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(Circle No. 131 on PRODUCT INFORMATION form)

with a locking ON button. The D-handle is attached to the fence, instead of to the body.

Porter-Cable is a name long identified with the professional woodworker, but popular with the everyday craftsman as well. This is true with the 557. Its price is a little high, but the quality is evident. There has been a recent revision to the fence for this unit, resulting in a new after market accessory. Owen Lowe (408 S. Howard, Newberg, OR 97132) sells a shim for \$10.00 that fits over the lower face and, he says, enhances the tool. Porter-Cable's model 557 sells for \$199.99.

Ryobi DBJ50K and JM80

Price: \$70 and \$125
Phone: 1-800-525-2579
www.ryobi.com



The DBJ50K is inexpensive and ideal for small stock applications, while the more robust JM80, right, uses standard size biscuits. Both are viable options.



Ryobi's DBJ50K and JM80

The little DBJ50K (\$70) is great for picture frames, face frames and other small items. Its 3.5 amp, 19,000 rpm motor cuts quickly with a six-tooth blade and a reversible

amber plastic fence for 90° and 45° use. You need a slotted screwdriver to make adjustments. The biscuit size adjuster has a pull-out knob that works well but feels loose.

The JM80 is a meatier machine for standard biscuits. Its 6-amp motor is up there with the other machines.

The trigger switch, inside the handle loop, works nicely but has no

lock-on button. The biscuit size adjuster is not as loose and the plastic and pressed aluminum fence adjusts easily. Height adjustment is simple and the fence adjusts from 0 to 135°. This, the final model, sells for \$125.

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10" x 30Tx 1/8" or 3/16"	\$99	\$89	\$84
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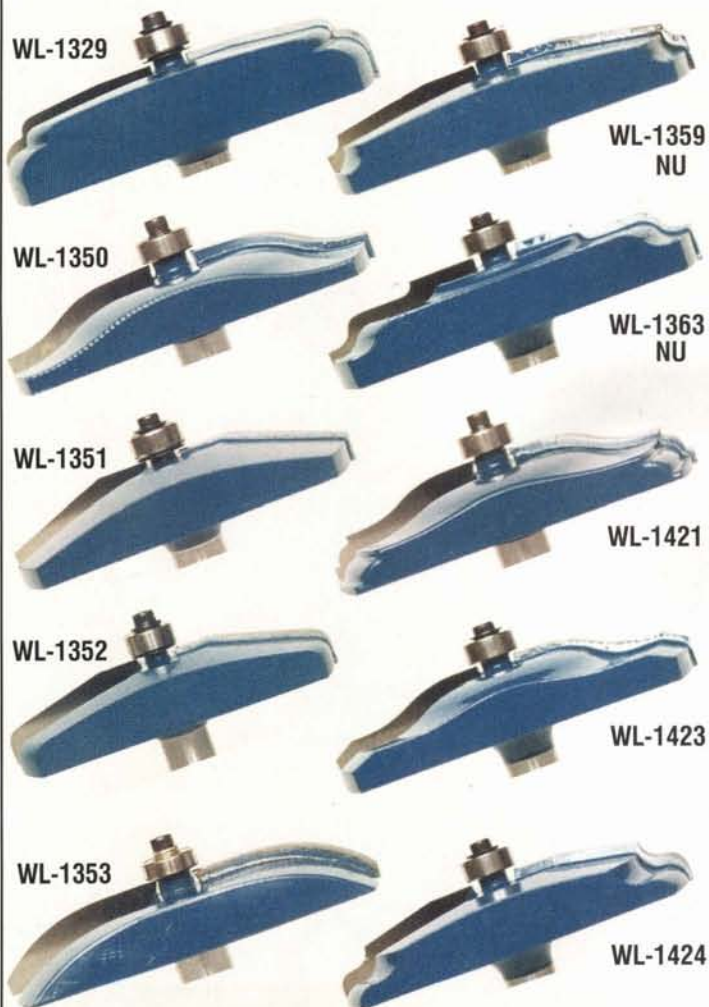
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Makita Marches On

By Rob Johnstone

Not satisfied to bring one new router to market at a time, Makita U.S.A. has just introduced four new 2¼ horsepower routers. Actually, it's more like one router in four outfits. The 1100 series units (models RD 1100, RD 1101, RF 1100 and RF 1101) come complete with a tough aluminum housing and electronic soft start and are, by Makita's reckoning, the quietest routers (81 dB) in their class. Remember, the experts generally recommend hearing protection for anything over 85 dB. All four units come standard with a large 1/2"

collet, but a 1/4" collet (along with two wrenches) is included with the package. Other similarities between the four units include a top no-load speed of 24,000 RPM, 11 amps of power delivered at 120 volts and a base plate diameter of 5¾". Of course, all four units are covered by Makita's one-year limited warranty.

The differences are the handle styles and speed controls. The 1101 units come with variable speed control (8,000 - 24,000 RPM) while the 1100 units are preset at 24,000 RPM. The RD units feature a large D-handle along with a single knob. The ergonomic D handle, with its locking trigger switch, adds comfort and control to just about any routing operation you can think of. The two RF units offer the more traditional two-knob base. The bases are interchangeable with one another and depth adjustments are a breeze with the easy to use cam-locking system. The slender 3/4" diameter aluminum motor housing seems almost too small to contain

the powerful all ball-bearing construction motors that come with these units.

One Thing We'd like to See Added

Makita's 3/4 HP 3612 router accepts the Jacobs' 33843 PowerCollet Keyless Router Chuck, which means a bunch of woodworkers were able to toss their nasty knuckle bruising router wrenches into the "old tools" bin. With that Jacobs' unit in place, you can change bits in seconds. Not to be too picky, but these new offerings from Makita would be kicked up



Two of Makita's new 2¼ H.P. routers are equipped with adjustable speed controls.



All four models feature an easy-to-use cam-locking depth adjustment system.

RF1100

RF1101

RD1101

RD1100

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Tools by the Numbers

Model 1100

Motor.....2 1/4 HP
Collet Capacities1/2" and 1/4"
No Load Speed.....24,000 rpm
AMPS (@120V).....11 amps
Overall Length8 3/4"
Base Plate Diameter5 3/4"
Weight.....7.1 lbs
Street Price ..see photo, below left

Makita Information800-462-5482

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another notch if Jacobs could design one of their keyless collets for them.

Things You Gotta Like

As soon as you go to install your first bit (remember to always leave 1/8" of air below the bit and to unplug first!), you gotta like the wobble-free flat top design. It

Model 1101

Motor.....2 1/4 HP
Collet Capacities.....1/2" and 1/4"
No Load Speed8,000 - 24,000 rpm
AMPS (@120V)11 amps
Overall Length8 3/4"
Base Plate Diameter.....5 3/4"
Weight7.9 lbs (1101)
Street Price.....see photo, below left

seems like a small thing, but then Makita clearly had their eyes on the small things with these new offerings. Later, when you go to set your depth, you gotta like the easy to open and shut cam-lock lever that's standard on all four units. But the top "you gotta like" feature goes to the D-base unit with variable speed control. For starters, you

don't have to unplug the unit from the wall, just pull the motor plug from the handle. Then, when you're ready to rout, plug back in, hit the "on" switch and ... nothing happens. That's a good thing, because you're not really ready to start routing. Now, get yourself all lined up and pull the trigger. The soft start takes

you quickly to your prescribed RPM, and now you're ready to cut. Release the trigger and the unit turns itself off. There's even a lock button that allows you to keep the unit on for when you're cutting a bookshelf full of dados.

All in all, these are four very nice routers from the folks at Makita.

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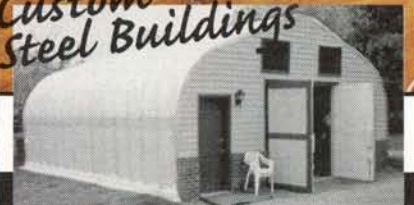
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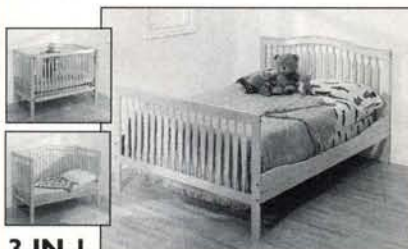
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Brushing Up on Finishing

By Michael Dresdner

What's more efficient than a spray gun, more versatile than a roller, and more relaxing than any other method of applying a finish? The answer is "a brush" — that old standby that is constantly being challenged by newer application methods, yet never quite replaced. A good brush can apply most any type of finish, thick or thin, on any type of surface without wasting material or creating over spray and, with proper cleaning and care, will continue working year after year.

Choosing a Brush

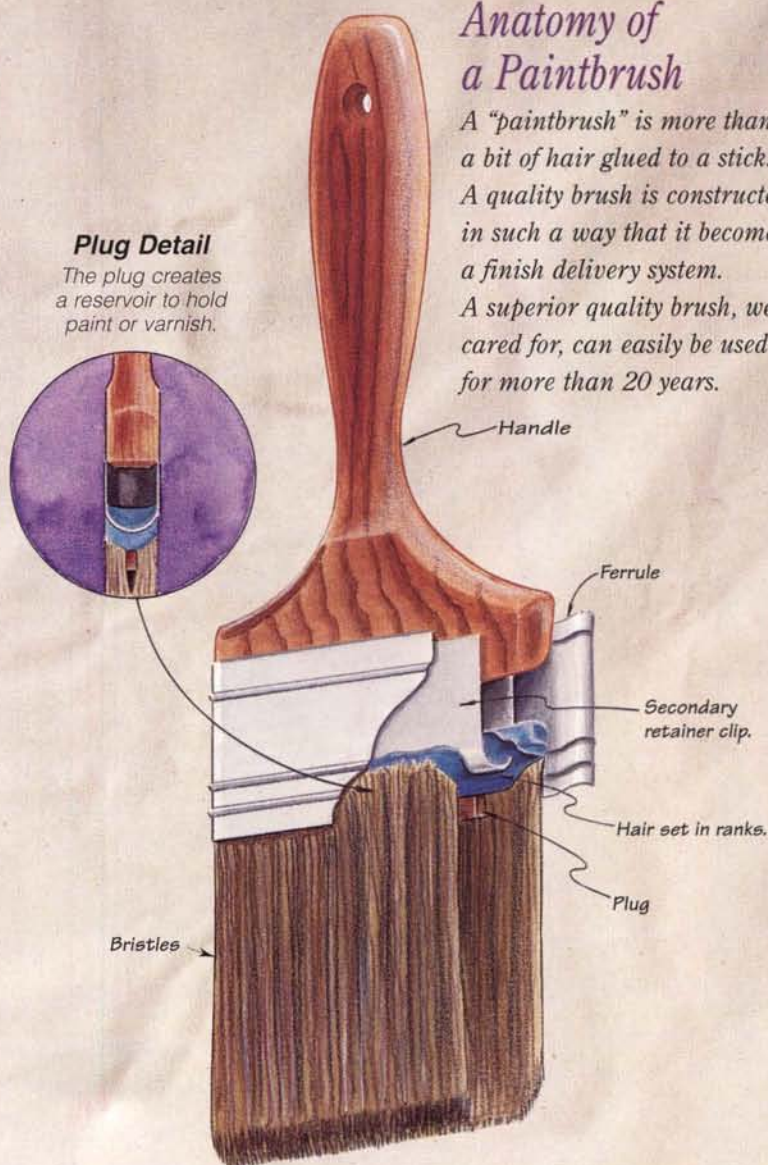
Before we talk about different types of brushes, it makes sense to get our terminology straight. Take a look at the illustration (at right) for the names of the different parts of the brush.

Most of the brushes you find at the paint or home store are paint brushes, not varnish brushes. Paint brushes are cut flat on top while varnish brushes are chisel shaped at the ends of the bristles. Paint and varnish brushes can be straight or angled (skewed), and which you use is a matter of taste and comfort.

When you press a chisel end varnish brush down at the correct angle, the ends of the bristles will form a smooth, thin line along the wood. (See photo on page 71.) It will look as if there is only a single layer

Anatomy of a Paintbrush

A "paintbrush" is more than a bit of hair glued to a stick. A quality brush is constructed in such a way that it becomes a finish delivery system. A superior quality brush, well cared for, can easily be used for more than 20 years.



To create the chisel shape of a varnish brush, the hairs must be set into the ferrule in graduated ranks or rows (see plug detail above), a process that contributes to its higher price. A topnotch 2" varnish brush may cost upwards of \$30.



Natural white China bristles are generally softer than natural black China bristles; however, some manufacturers do dye their white bristles black. Angled brushes, like the ones at left, let you get into tight two directional corners.

of hair at the end of the brush in contact with the wood, thus spreading the varnish smoothly with few brush marks. This quality is less important when you apply thicker paints, so paint brushes are usually not chisel ended.

Types of Bristles

Brush bristles can be made of either natural hair or synthetic fibers. Water causes natural hair to splay when it gets wet, so synthetic fibers are best for waterborne coatings and paints. I like nylon bristles for clear waterborne finishes, because they are the softest of the synthetic fibers. Polyester, nylon polyester mixtures, and other synthetic bristles are good for thicker paints, and are great all around choices.

Natural bristle brushes are made from a variety of different types of animal hair, and often are named after the animal who unwillingly supplied it. Badger, sable, ox and squirrel hair brushes really do come from those poor critters. China bristle is made from the hair of a Chinese hog, and Camel brushes (note the capital letter) are soft bristle brushes developed by a man named Kamel. They were originally made of squirrel hair, but these days are made from soft pony hair. My favorite all around natural hair brush for lacquer, shellac and varnish is China bristle. Incidentally, there is no real difference between black and white China bristle, and white or gray hair is frequently dyed to make black bristle.

Shapes and Sizes

There are situations when a certain size brush is important. I use a small, angled sash brush to get into the recesses in a raised panel door. However, for the most part, the best brush size is the one that fits comfortably in your hand.

The ends of the tips of most brushes are flagged. That's the brush maker's term for what

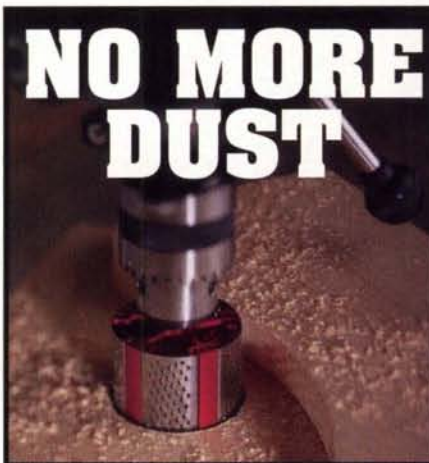
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FINISHING THOUGHTS

hair-dressers call "split ends." The flagged ends help prevent brush marks in thin finishes, and are an advantage for all solvent and oil based coatings. However, they tend to cause foaming with clear water-borne coatings. Choose a tapered or tipped end bristle brush for those jobs.

Quality Counts

A good quality brush will have plenty of long, springy, supple hair that doesn't shed or fall out. On a varnish brush, the ends will be flagged and the hair will be set in ranks, not cut, to make the shape of the chisel end. When you deflect the brush end at the correct angle (about 45 degrees) it will form a clean, thin line where the bristles meet the wood.

A poor quality brush may be shy on hair, and the bristles may be short, uneven, too soft, or too stiff. It might shed hairs when you run it through your hand. The chisel end of a varnish brush may be uneven, or be cut instead of set in ranks. When you deflect it, you'll get a ragged, uneven line where the hair meets the wood.

Properly cared for, a good brush will last many years and give you a lot of pleasure and good finishes. Cheap brushes cost more in the long run due to poor application quality, short life, hairs in the finish, and frustration when you're using them. Of course, if you invest in a good brush, you'll need to learn how to maintain it. What baffles me is how many good woodworkers think good chisels

are worth the time to sharpen and store, but use throwaway brushes rather than learn to clean and care for good ones.

Brush Basics

If you are ready to spring for a good brush, let me walk you through the steps of using and caring for it so you will get your money's worth.

Before you even open the finish, soak the bristles of the brush all the

way up to the ferrule in whatever solvent is right for the finish. Wait a minute or two, then squeeze out the excess solvent, but don't spin the brush or try to dry the bristles.

Stir the finish and pour some into a straight-sided pan. Dip only the lower third of the bristles into the finish. Touch the tips of the bristles gently to the side of the container to prevent drips, but don't scrape the brush across the edge.

Holding and Cleaning the Brush

As with any tool, a brush is an extension of your hand. I hold a brush by grabbing it on the ferrule, with my fingers facing the same direction as the bristles. Hold the brush at about 45° to the surface, deflecting the bristles slightly. As you move the brush, increase the

deflection pressure to feed out more finish. Take your time and watch how the finish flows off the brush.

As you work, the finish will creep up the bristles, and it will thicken and dry, eventually forming a crust near the ferrule. Don't let that

How to have your brush last a lifetime



Roll up the ferrule and the clean wet bristles in brown paper bag material.



Feel for the end of the bristles and fold the paper over about 1" past the end of the bristle.



A piece of tape or a rubber band around the ferrule will hold the paper in place until the bristles are dry.

happen. It will make cleanup difficult and will stiffen the bristles, making them less effective.

When you see the finish getting higher and thicker up the bristles, stop and rinse the brush out in a pan of whatever solvent you soaked it in. Squeeze out the excess solvent, as before, and go back to work. In 30 seconds, you will have a brush that is as clean, wet and supple as when you first dipped it into coating.

Clean the brush by massaging the bristles in the appropriate solvent. When it looks clean, shake off any excess solvent and wash the bristles with plenty of soap and warm water, scrubbing them into your hand to create lots of lather. When the bristles are clean and all the solvent is washed out, rinse them to remove the soap (or shampoo), and spin out the excess water.

Roll up the clean, wet brush in a piece of clean brown bag paper

about twice as wide as the length of the bristles and 10 times as long as the width of the brush. Flatten the paper and reshape the brush by folding the extra paper over about one inch past the ends of the bristles. When you return the next day, the bristles will be as supple and clean as the day you bought the brush, and perfectly shaped.

If you have any brushes that already sport a dry crust of old paint below the ferrule, all is not lost. Soak the bristles up to the ferrule in paint remover until the finish comes off easily, then follow with a rinse in mineral spirits before you move to the sink for the final cleaning.

Michael Dresdner is a nationally known finishing expert and our newest contributing editor.

When held correctly, a paint brush is an extension of your hand and the bristles an extension of your fingers.

Free load of accessories

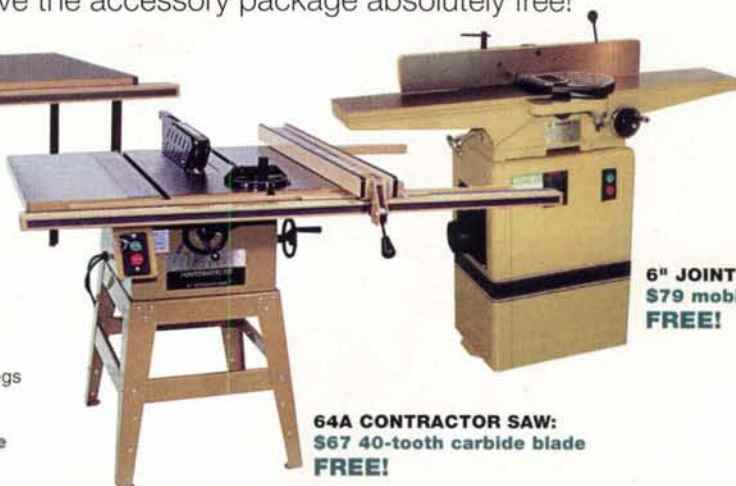
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- Keyless blade change system
- Includes one 5 TPI Cobalt steel blade and heavy duty carrying case
- Factory reconditioned, factory perfect

LIMITED QUANTITIES

ITEM ~~\$129⁹⁹~~ **\$99⁹⁹**
 51869-1KYA

CENTRAL MACHINERY

DRILL 1/4", 3/8", AND 1/2" SQUARE HOLES MORTISING MACHINE

Make a square hole in a fraction of the time it takes by hand! Easier layout for professional mortise and tenon joints in furniture, cabinets, and restoration projects. Fence with hold down clamp keep workpieces from lifting off the table. Large capacity - up to 5" maximum height. Includes fence, workpiece clamp, and 1/4", 3/8", and 1/2" mortising chisels and bits.

- 5" throat
- 3580 RPM spindle speed
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- 10-7/8" x 7-3/4" base
- 5" maximum workpiece height; Accepts .745" chisel shanks; 1/2 HP, 110V, 2.3 amps; 60 lbs. shipping weight

ITEM ~~\$149⁹⁹~~ **\$129⁹⁹**
 35570-6KYA

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Electric Power Tools

3 HP PLUNGE ROUTER

Super duty unit provides the ultimate in router performance. Use to cut precision moldings, rabbets, dados, dovetails, recesses for inlays, and much more. 19 amp all ball bearing motor develops 23,000 RPM for unbelievably clean finishes. 2-1/2" plunge depth capacity allows easy penetration into or through work surfaces.

- Includes 1/4", 1/2", and 3/8" collets
- 115V, 19 amps, 8 foot cord
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ITEM ~~\$129⁹⁹~~ **\$89⁹⁹**
 37793-4KYA

CENTRAL PNEUMATIC

CONTRACTOR SERIES



18 AND 19 GAUGE AIR FINISH NAILER

The excellent balance and 2-1/2 lb. weight make this brad tackler easy-to-use in tight spots. With a loading capacity of 100-18 gauge brads, you get more done with less down time. Using brads from 5/8" to 1-3/16", it will perform a variety of demanding tasks from picture frames to solid, handmade furniture.

- Air consumption: 3.5 CFM at 75 PSI
- Uses 18 and 19 gauge brads
- 1/4" NPT inlet

ITEM ~~\$36⁹⁹~~ **\$29⁹⁹**
 42253-1KYA

18 GAUGE BRADS

LENGTH	ITEM	PACK OF 5000
5/8"	33204-1KYA	\$3⁹⁹
3/4"	33205-6KYA	\$4²⁹
1"	33206-1KYA	\$5⁹⁹
1-3/16"	33207-2KYA	\$6⁹⁹

CENTRAL MACHINERY



1-1/2 HP 3/4" WOOD SHAPER

Precision wheel adjustment, two spindle speeds, a finely-milled cast iron table, and sealed ball bearing movement. The base is made of heavy duty cast iron.

Motor: 1-1/2 HP, 17 amp, 110 volt, 3450 RPM; Spindle speeds: 5495/8893 RPM; Worktable: 20-1/4" L x 20-1/4" W x 1-1/4" D; Weight: 330 lbs

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 37856-3KYA

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- Maximum cut @ 90°: 2-7/16"; @ 45°: 1-15/16"
- Factory reconditioned, factory perfect
- Handy scales and cutting guide
- 10 amps, 2-1/3 HP, 4600 RPM

LIMITED QUANTITIES

ITEM ~~\$349⁹⁹~~ **\$299⁹⁹**
 06188-4KYA

MOLY CARB

CIRCULAR SAW BLADE WITH MOLYBDENUM TIPS

- 5/8" arbor, 24 tooth blade
- M2 molybdenum tips

ITEM **\$249**
 38534-0KYA

PORTER-CABLE

LIMITED QUANTITIES



PROFILE SANDER KIT

New design includes attachments for any sanding job! Even projects that could only be done by hand are accomplished with this unit. Sand corners, curves, angles, and an entire roll top desk. Flutes, decorative picture frames, grooves, score lines, shutter slats.

ITEM ~~\$799⁹⁹~~ **\$599⁹⁹**
 51660-6KYA

DELTA

Delta 36-040

8-1/4" COMPOUND MITER SAW

- 9 amp, 115V motor
- Arbor: 5/8"
- RPM: 5200
- Table: 11" diameter, 2" side extensions
- Positive stops: 0°, 15°, 22-1/2°, 30°, and 45°
- Bevel cut: 0° to 45°
- Miter cut: 0° to 45° right and left
- Capacities: 2-1/8" x 5-1/8" crosscut; 2-1/8" x 3-1/2" 45° miter; 1-1/2" x 5-1/8" 45° bevel; 1-1/2" x 3-1/2" compound cut 45° miter and 45° bevel
- Factory reconditioned, factory perfect

LIMITED QUANTITIES

ITEM ~~\$999⁹⁹~~ **\$899⁹⁹**
 51623-5KYA
 8-1/4" x 40 TPI BLADE
 5/8" arbor,
 C2 tungsten carbide tips
 ITEM **\$999**
 43204-0KYA

DEWALT

DeWalt DW733R



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HEAVY DUTY 12-1/2" PORTABLE PLANER

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- Amps: 15
- Factory reconditioned, factory perfect

ITEM ~~\$319⁹⁹~~ **\$299⁹⁹**
 51736-3KYA

HEAVY DUTY 12-1/2" PORTABLE PLANER

- New DeWalt DW733

ITEM ~~\$419⁹⁹~~ **\$399⁹⁹**
 37659-5KYA

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 ITEM **\$49⁹⁹**
 37709-0KYA

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~~\$199~~ **\$139**

ITEM 36853-3KYA

DUST COLLECTOR ANTISTATIC KIT

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ITEM 39220-0KYA

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ITEM 02379-2KYA

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10" INDUSTRIAL TABLE SAW

Die cast aluminum table 26" x 16", has adjustable 17-7/8" x 2" rip fence and inch/metric scale for precise cutting.

- Maximum depth of cut at 90°: 3-1/8"; at 45°: 2-1/2"
- Motor: 2 HP, 115V, 60 Hz, 10 amp, 4500 RPM
- Shipping wt.: 36 lbs.
- Blade capacity: 10" with 5/8" arbor
- Miter gauge adjusts 0° - 60° left & right
- Blade & stand sold separately

~~\$119~~ **\$79**

ITEM 38533-1KYA

10" 40 TOOTH CARBIDE TIP SAW BLADE

Molybdenum carbide M2 tips 5/8" arbor

~~\$999~~ **\$999**

ITEM 00529-4KYA

ROTOZIP

Rotozip SCS01 RECON

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ROTOZIP SPIRAL SAW

Spiral cutting action for clean cuts in tile, acrylic, aluminum and vinyl siding, drywall, fiberglass, wood and more. Includes two 2-1/2" x 1/8" sabrecut zip bits for wood, one 2-1/2" x 1/8" guidepoint zip bit for drywall, 1/8" collet, 1/4" collet and wrench.

- 115V/120VAC, 4 amps, 30,000 RPM
- No-fail bump-off switch
- Reinforced 10 ft. rubber cord
- Bayonet style removable base and depth guide
- Factory reconditioned, factory perfect

~~\$599~~ **\$599**

ITEM 55029-0KYA

CENTRAL MACHINERY

6" INDUSTRIAL RABBETING JOINTER

- Rabbet cut: 3/8"
- Knives: 3
- Motor: 1 HP, 110V, 4 amp
- Cutter head speed: 4900 to 5900 RPM
- Infeed table size: 26-1/2"
- Outfeed table size: 19-1/2"
- Dimensions: 37-1/2" x 16" x 26-3/4"
- Cutter head size: 3"
- Rabbeting ledge: 2-7/8"
- Weight: 160 lbs.

Cast iron infeed/outfeed tables; Rack and pinion hand controls, Cast iron fence tilts 45° left/right with 45° and 90° positive stops. Includes stand.

~~\$289~~ **\$199**

ITEM 30289-4KYA

REPLACEMENT BLADE SET

ITEM 38268-0KYA

~~\$999~~ **\$999**

A. 18 VOLT, CORDLESS, 5-3/8" CIRCULAR SAW KIT

Cut up to 85 ft. of plywood on a single charge. 2400 RPM, 1.3 amps, 10mm arbor, 50° bevel capacity, maximum depth of cut @ 90°: 1-1/2"; @ 45°: 1-1/4"; weight: 7-1/2 lbs.

~~\$99~~ **\$69**

ITEM 37412-7KYA

5-3/8" TUNGSTEN CARBIDE TIP BLADE

24 teeth, 10mm arbor

~~\$799~~ **\$799**

ITEM 37413-0KYA

18 VOLT REPLACEMENT BATTERY

~~\$299~~ **\$299**

ITEM 37145-1KYA

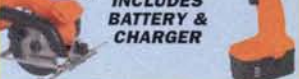
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ITEM 37449-1KYA

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B. 18 VOLT CORDLESS, VSR DRILL/DRIVER KIT WITH 3/8" KEYLESS CHUCK

The 18V battery gives you more run time than 14.4V drills. Balanced T-handle design helps keep the drill steady as you work. Variable speed reversible. Jacobs® keyless chuck for sure grip.

~~\$72~~ **\$39**

ITEM 37144-9KYA

21 PC. HIGH SPEED STEEL DRILL BIT SET

Sizes: 1/16" to 3/8" by 64ths. Jobber length M2 high speed steel

~~\$799~~ **\$799**

ITEM 33417-3KYA

TUNGSTEN CARBIDE TIPPED ROUTER BIT SETS

Tungsten carbide tips for faster cutting and longer life. Ground to ultra close tolerances for the best finish available. Both include individually organized storage cases. 1/4" shanks.

15 PC. ASSORTED BITS

Includes: 1-1/4" rabbeting, 1-3/8" cove, 1-1/2" 16" roman ogee, 1-1/4" rounding over, 1/2" flush trimming, 1-3/16" 45° chamfer, 1/2" dovetail, 3/4" straight, 1/2" straight, 3/8" V-groove, 1/4" combination panel, 1/4" straight, 1/2" mortising, 1/4" cove, 1/8" straight. Includes pilot bearing.

~~\$39~~ **\$29**

ITEM 31164-5KYA

4 PC. ROUNDING OVER BITS

Sizes: 1/8", 1/4", 3/8", 1/2"; 1-5/32" long shanks; 2 flutes each; Set includes 4 rounding over bits with pilot bearing tips.

~~\$22~~ **\$15**

ITEM 33078-7KYA

CarbTip

INDUSTRIAL 8" DADO BLADE SET

WITH SAWS AND CHIPPERS

Long lasting industrial quality carbide tipped dado set produces flat-bottom cuts. Cuts clean and smooth grooves and dados from 1/8" to 3/4". Use for hard or soft woods, plywood, particle boards and laminates. C2 tungsten micro-grain carbide tips last up to 50 times longer than steel blades and can be resharpened. One chipper is 1/16" thick, all others are 1/8" thick. 7000 RPM maximum.

- Includes:
- Two 24T 8" outerblades
- Five, 2T chipper blades - one is 1/16"
- Includes brass shimstock

~~\$399~~ **\$199**

ITEM 40745-4KYA

CENTRAL MACHINERY

BIG 12" DISC HEAVY DUTY COMBINATION BELT/DISC SANDER

High-powered machine takes on big jobs at do-it-yourself prices. 12" disc and 6" x 48" belt for dry sanding. Belt tilts 0°-90° and operates in vertical and horizontal positions. Both tables tilt 0°-45°. Includes dust collection ports, safety switch with key, stand, 1/4" x 3/4" miter gauge, sanding belt and disc. 1 HP, 110 volts, 3450 RPM; Belt table: 10-3/16" x 6"; Disc table: 16-1/4" x 8-1/2"; Weight 139 lbs.

~~\$289~~ **\$249**

ITEM 40643-0KYA

SANDING BELT CLEANER

Increases the life of your sanding belts and discs up to 500%

~~\$399~~ **\$399**

ITEM 30766-0KYA

CENTRAL PNEUMATIC

2 HP, 4 GALLON PANCAKE COMPRESSOR

Low profile stability on rooftops. Excellent for contractors and roofers. 115V, 60 Hz; 3450 RPM; 5.2 SCFM @ 40 PSI; 4.2 SCFM @ 90 PSI; Oil lubrication; 51 lbs.

~~\$129~~ **\$99**

ITEM 38898-5KYA

3/8" x 50 FT. AIR HOSE

- 150 PSI working pressure, 200 PSI burst
- Resistant to oil, abrasion and weather

~~\$99~~ **\$99**

ITEM 42185-0KYA

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10 PC. LARGE HOLE SAW SET

Bores through 1" thick drywall, wood and plaster with ease. Includes cutting cup sizes 2-1/2", 3", 3-1/2", 4", and 5", plus 3/8" mandrel, drive plate, 6 mm drill bit, hex wrench, and blow mold case.

~~\$129~~ **\$79**

ITEM 36222-4KYA

12 PC. HOLE SAW SET

Cut smooth, clean, accurate holes up to 1" thick! Set includes 8 tool steel cups sized 3/4", 1", 1-1/8", 1-1/4", 1-1/2", 1-3/4", 2", and 2-1/2" plus 1/4" and 3/8" mandrels, 1/4" bit (2" long), hex wrench and blow mold case.

~~\$119~~ **\$59**

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Projects for Work and Play

Here's Looking for You

We need your pictures of *Woodworker's Journal* and *Today's Woodworker* projects. Look in the Letters section for tips on shooting your woodworking projects, and ...



Lookin' Sharp

After finishing a bedroom closet project, **Jack Frost** of Maple Valley, Washington had leftover melamine board and a need to sharpen a lot of tools. Our sharpening station project "came at the right time," he said.

Jack took the melamine and some mill-run black walnut and went to work. Even though he describes himself as a woodworking beginner, he had enough confidence to make some

adjustments to the plan. For instance, Jack used #20 biscuits to produce a more secure joint between the floor and the bottom trim.

A Bunch of Beanies

Beanie Babies™ are one of those fads that's popular both with kids and their grandparents. If we didn't know that already, we would have found out when we got the letter from Karen Skirvin extolling the Beanie Baby accessories her dad, **Ralph "Pop" Skirvin** of Plainfield, Indiana, made

for his granddaughter Rebecca using *Woodworker's Journal* project plans.



The Beanie Baby Bedroom appeared in *Today's Woodworker*, July/August 1997; the Biplane in *Woodworker's Journal* September/October 1999 and the Bus in *Woodworker's Journal* November/December 1998.

A Full Deck



When **Roy Fross** of San Francisco, California, finished making a full deck of the Card Playing Coasters, "I had all of the cut-outs from the inlay and wondered what to do with them," he wrote to us.

Demonstrating the innovation so common among woodworkers, Roy didn't wonder for long. Accompanying his letter



The Card Players' Coasters first appeared in *Today's Woodworker*, Nov/Dec 1995.

was a picture of the nightlight which resulted from his leftovers. With an inlay cutout on each of the four sides, it's ready to suit any room.



The Sharpening Station first appeared in *Woodworker's Journal* January/February 1999.

It seems that Pop, who retired from commercial carpentry in 1980, has been building projects for friends and family ever since. Rebecca certainly appreciates it: "She has become the envy of our neighborhood of Beanie collectors," mother Karen told us.



Winner! Ralph "Pop" Skirvin wins a Bosch 3365 planer for his contribution to *End Grain*. For a chance to win, send letters and photos to: **End Grain, Woodworker's Journal**, P.O. Box 261, Medina, Minnesota 55340. If we publish yours, we'll throw your name in a hat for our free tool drawing. Photos of projects from *Woodworker's Journal* or *Today's Woodworker* are eligible.

**WOODWORKER'S
JOURNAL**

RESOURCE DIGEST

2001

Second
Annual
Directory of
Woodworking
Tools and
Supplies

Woodworking Supplies 100

Stationary and
Benchtop Tools 91

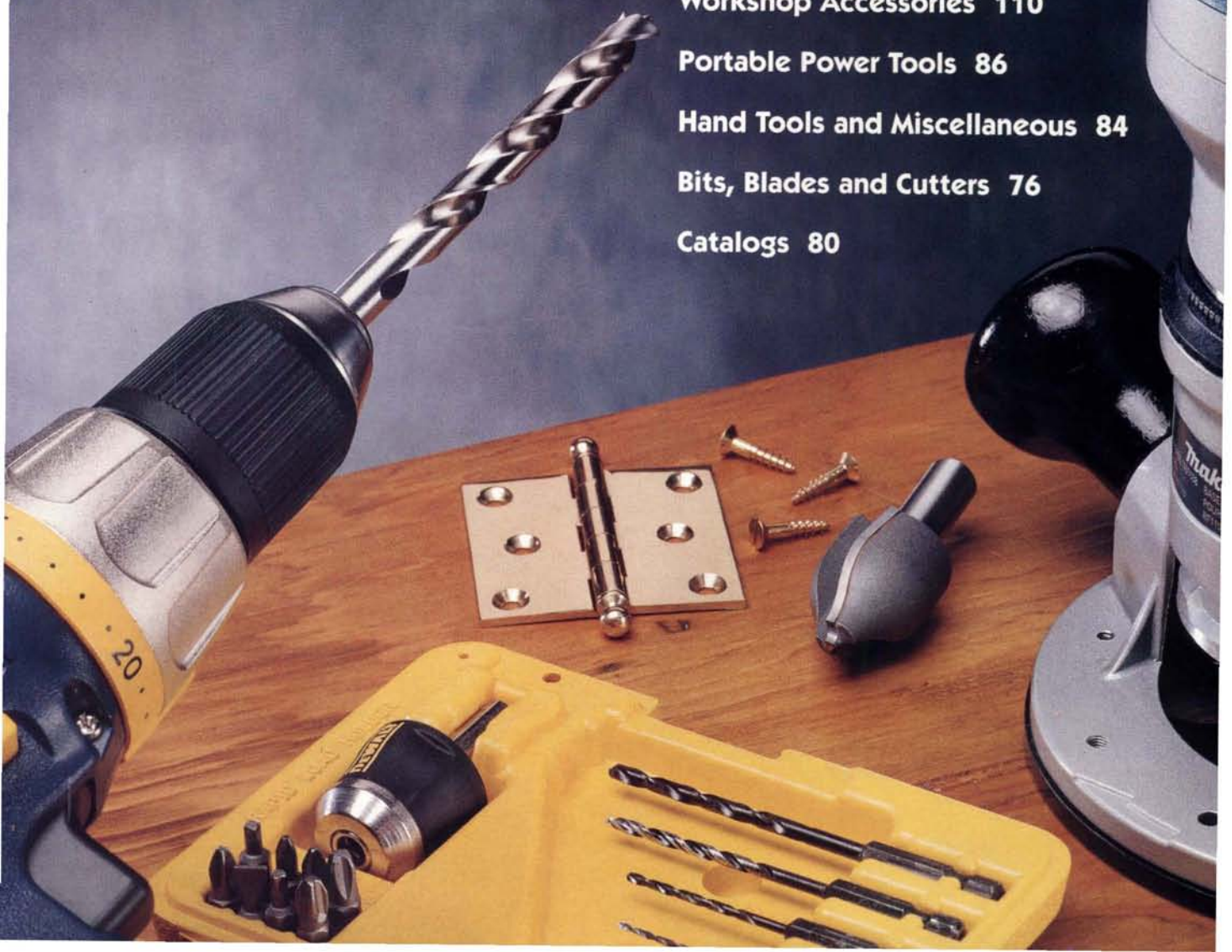
Workshop Accessories 110

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Woodworking Tools: Where Do You Start?

Welcome to the second annual Resource Digest. We've added 20 pages and quite a few new listings to this year's edition. As you can see, there's no lack of companies out there vying for your attention, looking for a new home in your shop.

After attending the major woodworking shows, we decided our role here would be simply to introduce you to as many companies as we can — to recreate the experience one has going to a show and walking the aisles. The Digest is not about reviewing tools or

recommending products. Instead, we give you brief descriptions, phone numbers and URLs. The rest is up to you. Visit the web sites. Go to one of the woodworking forums on the web (try ours: www.woodworkersjournal.com/forums.cfm) and ask fellow woodworkers about a product you're interested in. Give the company a call and request literature on whatever you want to know about. Like a good show, the *Resource Digest* is designed to be a starting point.

Larry N. Storch

Resource Digest 2001

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www.amanatool.com

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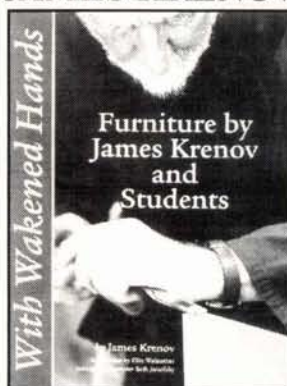
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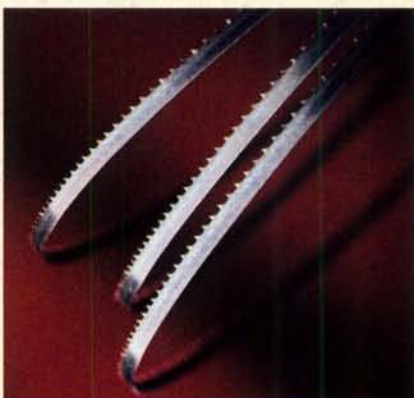
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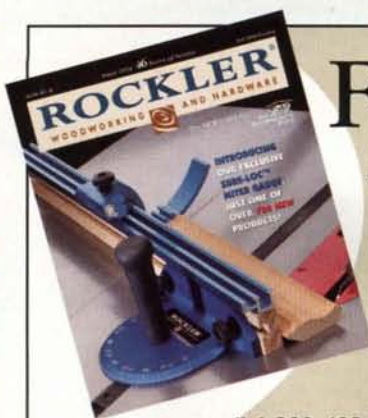
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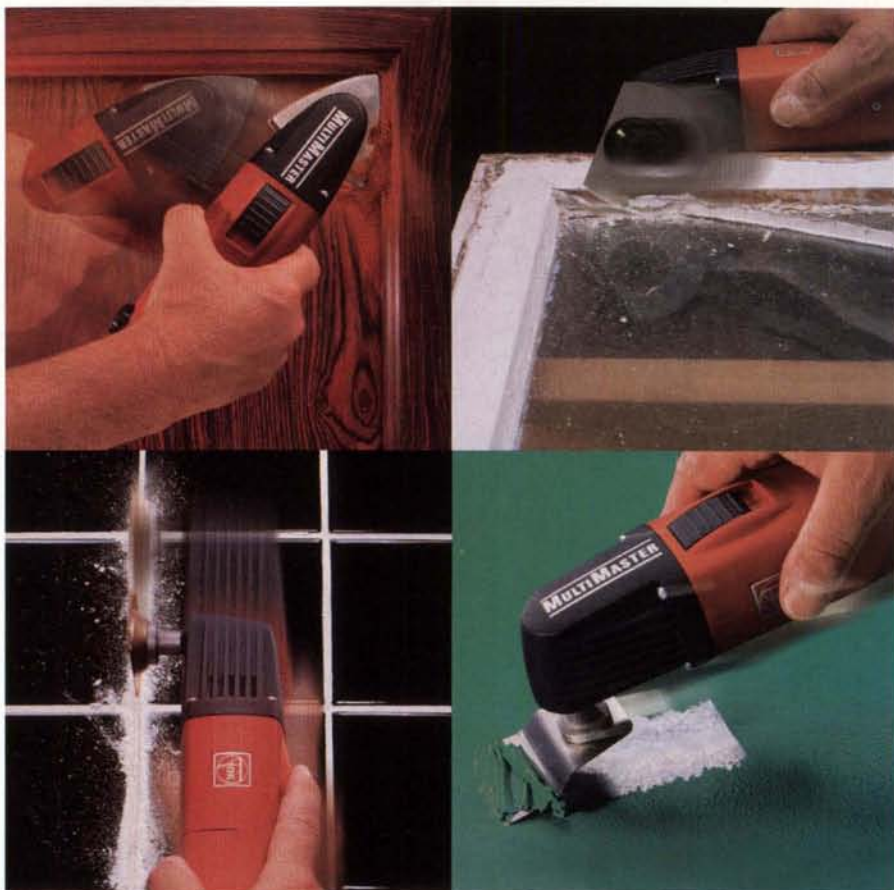
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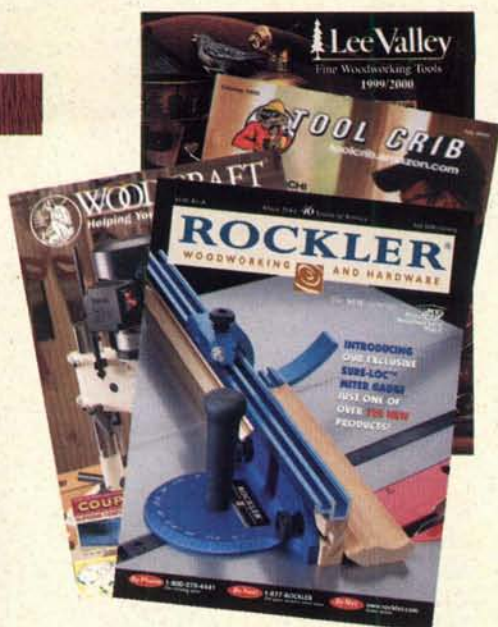
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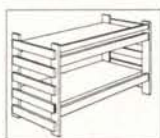
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www.wdfinder.com

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www.woodworkersindexing.com

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WOODWORKER'S SUPPLY

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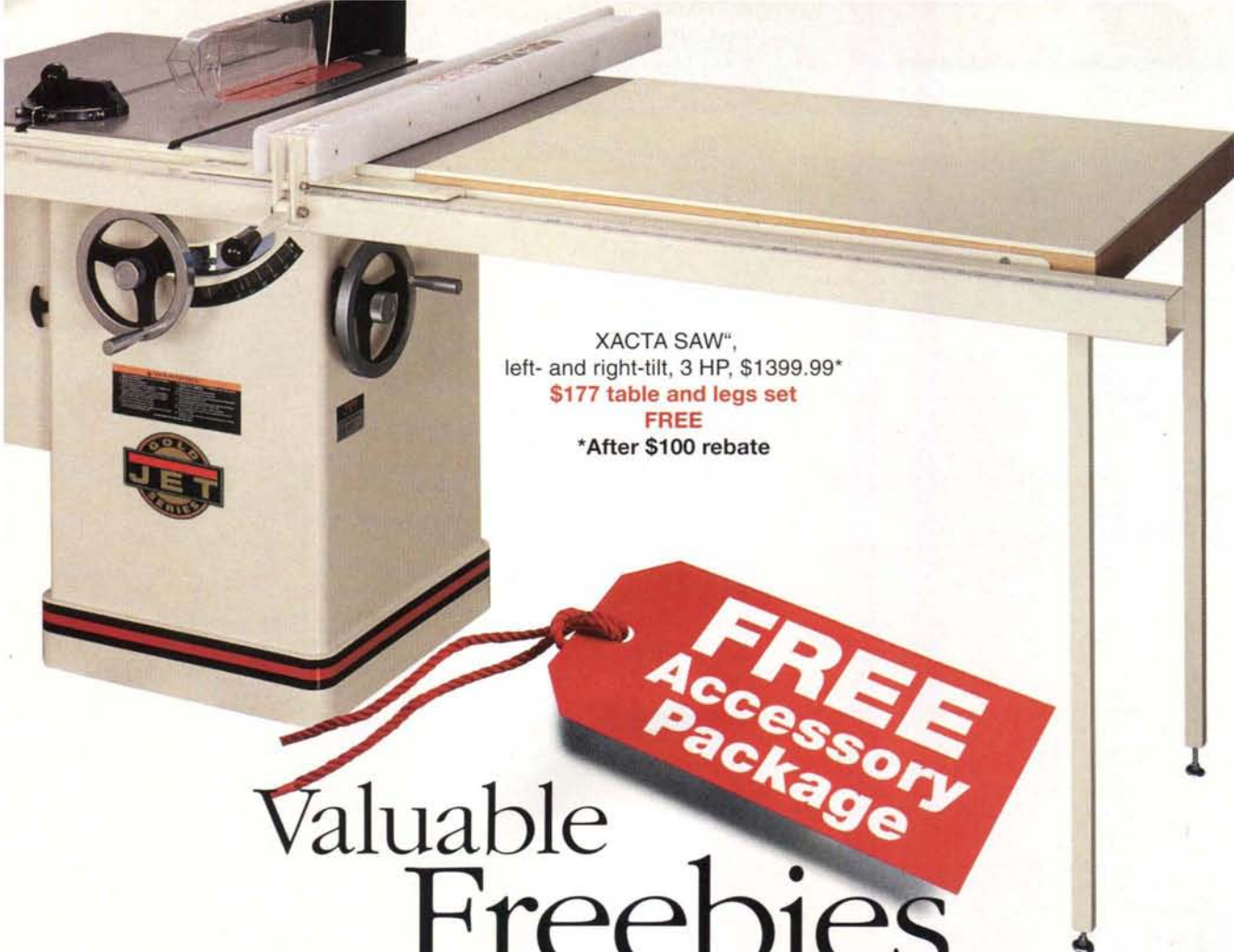
TARJANY PUBLICATIONS

818-225-8410

www.tarjany.com

Established in 1979, Tarjany Publications is a small company that publishes how-to hobby books. To date the titles are in wood toy vehicles and model railroading. Future projects of scroll saw patterns, as well as of birdhouses and feeders are currently in progress, with more woodworking books to follow.

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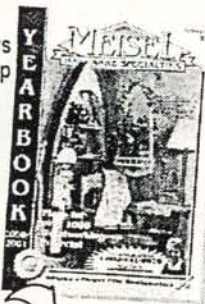
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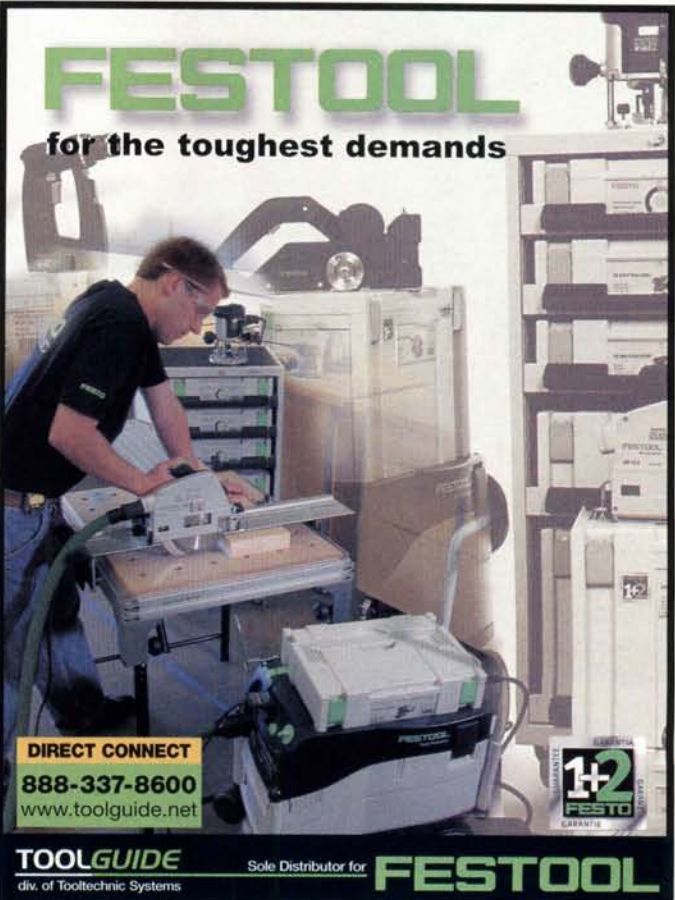
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8-1/4" x 40 TPI BLADE
 5/8" arbor,
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 24 teeth, 10mm arbor
ITEM 37413-0KZA

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ITEM 37145-1KZA

RIP FENCE
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37908-0KZA

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- 4 column design with head lock
- Turret depth stop for accurate cuts
- Magnified, easy-to-read depth scale
- No load speed: 20,000 CPM
- Feed rate: 26 FPM
- Amps: 15
- Factory reconditioned, \$219
- factory perfect

ITEM ~~\$419~~ **\$299**

51736-3KZA

HEAVY DUTY 12-1/2" PORTABLE PLANER

- New DeWalt DW733

ITEM ~~\$419~~ **\$399**

37659-5KZA

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DeWalt DW7332 **\$499**

ITEM 37709-0KZA

CENTRAL MACHINERY

LIMITED QUANTITIES



12" DIRECT DRIVE BENCH TOP DISC SANDER

Get sharp, accurate finishes without burning or marring. Direct drive disc won't slip. Base pads prevent creeping. Table tilts to 45°. 2" dust collection outlet. Features fan-cooled brushless motor, miter gauge, and safety switch. Iron disc and table. Includes 60 grit, 12" sanding pad.

- 1 HP, 120V, 10 amps
- No load speed: 1793 RPM
- Base: 13" x 10"
- Wheel diameter: 12"
- Shipping wt.: 92 lbs.

ITEM ~~\$119~~ **\$89**

37297-3KZA

12" SANDING DISCS

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60	37958-1KZA	\$699
120	37959-1KZA	\$699

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Extend the capacity of your benchtop saw, shaper or sander. Extension wings with rollers make stabilizing large pieces easy. Large table and rugged construction support virtually all shop tools no matter what the size. Folds away for easy storage. Enamel finish.

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- Table top: 28" x 19-1/2"
- Wings extend to 57"
- Overall: 22" x 52" x 37-3/4"

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ITEM 40612-2KZA

RASK

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- Saw and table wood not included
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Campbell Hausfeld

DREMEL

800-437-3635

www.dremel.com

For more than 65 years, Dremel, based in Wisconsin, has been the leader in the design and manufacture of high speed multipurpose rotary tools and superior benchtop products. A new addition to their line is the Dremel 16" variable speed scroll saw, designed with all the features scroll saw users said they really wanted, such as top-mounted controls, two-way table tilt, and table angle detents.

FEIN POWER TOOLS

800-441-9878

www.fein.com

The company Fein was founded in the year 1867 by the 25-year-old Wilhelm Emil Fein and his brother. Today Fein's leading design facilities produce power tools of ergonomic design, including the MultiMaster system for sanding and cutting, a new production router, sanders, vacuum accessories and dust collection products.



Kremlin, Inc.

KREMLIN, INC.

800-573-5554

www.kremlin.com

Kremlin is pleased to announce the new SX Airmix® spray gun that combines outstanding atomization, heavy-duty performance and ergonomic handling. The trigger pull is about 50 percent lighter than on most other guns, the gun body is very light, all wetted metal parts are stainless

steel, and most wear parts are interchangeable with Kremlin's existing gun line. This gun is available with three trigger arrangements.

MAKITA U.S.A., INC.

800-462-5482

www.makita.com

A quality manufacturer of portable power tools, Makita has a full line of corded and battery-powered tools. Their new 24 volt system, which features a computer chip controlled charging system, is one of the most advanced in the world. Celebrating 30 years in the power tool business, Makita is a great choice in portable power tools.



Senco Fastening Systems

ORIGINAL SAW COMPANY

800-733-4063

www.originalsaw.com

Original Saw Company manufactures 15 models of radial arm saws. Their Contractor Duty Series, a 3 hp unit with a 12"/13" blade capacity features automatic brake, 24" crosscut capacity and auto return device. It comes with complete guarding, a table and frame legs.

PHANTOM ENGINEERING, INC.

800-279-4570

www.legacywoodworking.com

The Legacy Ornamental Mill from Legacy Woodworking Machinery, a division of Phantom Engineering, uses a standard plunge router to mill reeds, flutes, tapers, joinery and spirals; such as rope moulding and barley twist designs. Round stock capacity up to 10" diameter and 80" center to center. Flat milling capacity up to 14" wide.

Demonstration video available.



Tool Guide Corporation

PORTER CABLE

800-487-8665

www.porter-cable.com

From its birth as a small machine shop in 1906, Porter-Cable has grown to become one of the world's leading manufacturers of professional power tools. Among their products is the Model #121 oscillating spindle sander, which accommodates drum and paper sizes from 1/2" to 2" in diameter. It's a variable speed tool (2,400 - 3,600 rpm and 38 - 60 oscillations per minute) for use on materials including hard and soft woods.

S-B POWER TOOL COMPANY

877-267-2499

www.boschttools.com

Skil-Bosch is a leading brand of electric power tools and accessories serving the industrial, construction and advanced DIY markets. Among their offerings is the Bosch Model 3365 planer. The 3365 features a single-blade drum, which automatically positions the blade at the ideal cutting angle. A powerful 5 amp motor generating 18,000 rpm drives the razor sharp blade. The 3365 has a left or right chip eject, a vacuum attachment and an edge guide fence.

SENCO FASTENING SYSTEMS

888-222-8144

www.accuset.com

Since 1951, Cincinnati, Ohio-based SENCO has been one of the world's leading manufacturers of air-powered nailers, staplers and the fasteners they drive. Recently, they introduced the AccuSet® 2-IN-1 Brad Nailing brand of electric power tools and accessories serving the industrial, construction and advanced DIY markets.

TOOL GUIDE CORPORATION

888-337-8600

www.toolguide.net

While living in France, Michael McGibbon took particular liking to portable power tools from German manufacturer Festo. When McGibbon moved back to the U.S., he decided to import Festo tools, forming a company called Toolguide Corp. The company sells 14 Festo tools, including jig saws, sanders, cordless drills, circular saws and routers. The ATF55 Festo guide saw weighs 12 pounds, and has a cutting depth of 2" at 90 degrees and 1 1/4" at 45 degrees.

WOOD-WRITE, LTD.

888-966-3974

www.WoodWriteLtd.com

WoodWrite Ltd. has precision mini-lathes, including the "automagic" Model 361; pen turning supplies such as titanium gold pen kits and pre-cut and drilled pen blanks; and Turner's Magic™ friction drying sealer and polishes.

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BOSCH

877-267-2499

www.boschtools.com

Bosch is a leading brand of electric power tools and accessories serving the industrial, construction and advanced DIY markets. Among their offerings is the Bosch Model 4000



S-B Power Tool Company

Table Saw, a 10" portable worksite table saw which features a 4.4 HP, 15 amp motor. The Model 4000 has a 40-tooth, 10" carbide blade with 5/8" arbor, a positive self-aligning fence and a 29" x 21 1/2" work surface.

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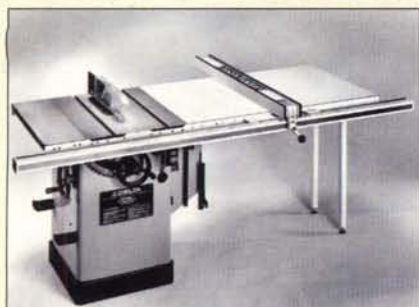
The stories were true. Our special hand made blend of Tung Oils make Waterlox Original products the best and easiest to use.

You can still use the same legendary wood finishes that were developed in 1916 today. For product and ordering information about our legendary wood finishes, visit our website at www.waterlox.com or call 1.800.321.0377.



Worldwide Finishing Solutions

(Circle No. 206 on PRODUCT INFORMATION form)



Delta International Machinery Corp.

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800-321-9443

www.deltawoodworking.com

Since 1919, Delta Machinery Corporation has manufactured innovative woodworking machinery. Delta's products include woodworking machines and accessories for use in home workshops, building and construction trades, industry and schools.

DEWALT TOOL COMPANY

800-433-9258

www.dewalt.com

DeWalt Industrial Tools manufactures and markets high performance industrial power tools and accessories.



Emerson Tool Company

EMERSON TOOL COMPANY

800-474-3443

www.ridgidwoodworking.com

RIDGID offers a complete line of woodworking products, benchtop/stationary power tools, wet/dry vacuums, and air filtration and dust collection systems. All products carry the RIDGID lifetime warranty against defects in material and workmanship. RIDGID is sold exclusively at The Home Depot.

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724-663-9072

www.fisch-woodworking.com

Fisch Precision Tools Inc. distributes world-class woodworking tooling and machinery for the quality conscious craftsman. Their products include the Fisch Turning Center, with 10" diameter turning, and 15" between centers; 1/2 HP motor, unique dust/chip deflector and speeds of 500 - 3,700 rpm, and the Fisch Benchtop Mortiser, a twin column with 1/2 HP motor.



Fisch Precision Tools

GRIZZLY IMPORTS

800-523-4777

www.grizzly.com

Grizzly Industrial is a national mail order company in the U.S. providing high quality woodworking and metalworking machinery and accessories. They have one of the largest, fully stocked parts departments in the industry with a solid inventory of over 26,000 different parts. Among their products are the Grizzly Model G8600, an 18 volt, 1/2" chuck variable speed reversing drill with speeds up to 900 rpm and 15 different clutch settings.



Grizzly Imports

HITACHI POWER TOOLS (USA)

800-706-7337

www.hitachi.com

Hitachi Power Tools manufactures, markets, distributes and services electrical and pneumatic power tools in the U.S. and Canada. Products include an extensive line of heavy-duty electric tools for woodworking; as well as

pneumatic nailers, staplers, compressors and collated fasteners. Hitachi has introduced the P20DA 3 1/4" cordless planer, the only one of its kind in the industry.

JDS COMPANY

800-382-2637

JDS Air-Tech 2000 systems cleanse the air by removing dust, bacteria, fungi and pollen. These units will remove 99 percent of dust particles as small as five microns and 80 percent of the particles as small as one micron. A powerful blower motor will quietly circulate and filter the air. The JDS Air-Tech comes fully assembled and ready to use with all filters included. No outside venting is required; existing room temperature is not affected.



JET Equipment & Tools, Inc.

JET EQUIPMENT & TOOLS, INC.

800-274-6848

www.jettools.com

JET Tools is a leader in the woodworking power tool industry. With a complete line of stationary power tools, JET Tools and its family of manufacturers, Performax and Powermatic, is able to serve every woodworker's needs. Look for their extensive line of accessories as well. JET's new 48" sliding saw table is another example of JET's leadership in the woodworking industry.

LAGUNA TOOLS

800-234-1976

www.lagunatools.com

Laguna Tools imports only the finest European woodworking equipment to America. Featuring the Robland X31 and the new Knapp series of multi-use woodworking tools and a great selection of band saws (just to name

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The first router that actually conforms to your idea of perfection.

Your unwavering devotion to precision has finally met its equal: introducing the Bosch 1617EVS Router. Every feature is designed to finally give you the levels of



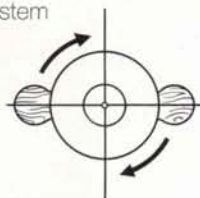
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accuracy and control you've always demanded from a router, but have never found.

For example, not satisfied with the typical "close is close enough" bit depth adjustment, we've given you a patented Linear Height Adjustment System, which includes a Microfine Adjustment Dial that can position the bit exactly where you want it.

And with adjustments as fine as .004 of an inch, we do mean exactly.

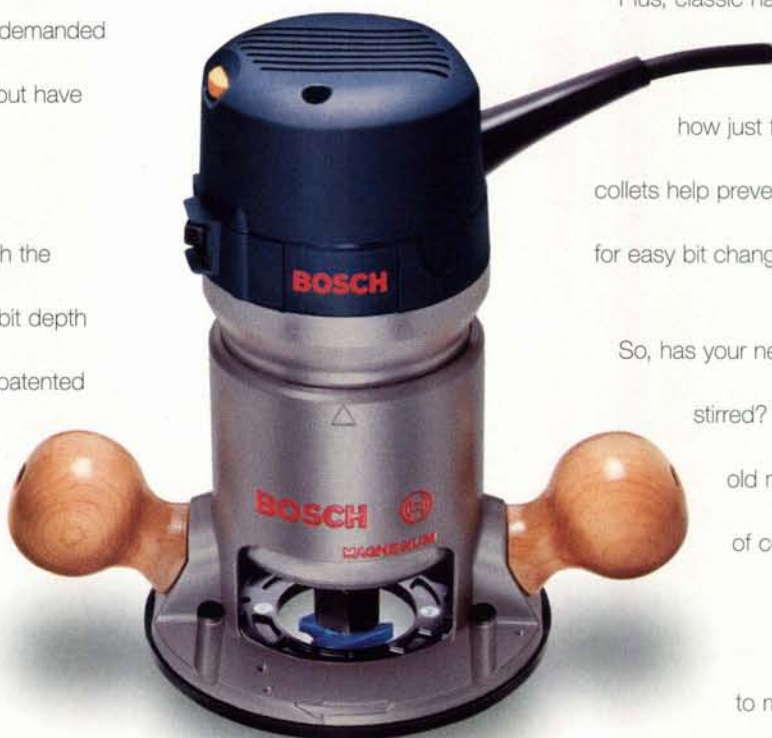
Bosch also patented a Precision Centering Design™ system that keeps the bit perfectly positioned in the cut regardless of handle position, especially critical when



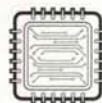
Precision Centering Design

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Soft-Start Technology

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- 2 HP Fixed Base Router
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BOSCH

1-877-267-2499 BOSCHTOOLS.COM

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The Best Place to Buy Tools On the Web!

(Circle No. 172 on PRODUCT INFORMATION form)

Joint A-billi-T the new matched edge jointer



Woodworkers are abandoning their jointers for the ease, sureness and portability of the Joint A-billi-T.

Joint-A billi-T is just as its name implies, a tool for perfect glue joints. Use your router to cut these joints flawlessly in your shop: dadoes, rabbets, tapered cuts, squaring panels. Guaranteed square and tight joints starts your project right.

**PLACE YOUR ORDER:
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Dear Mr. Gudeman,

Firstly, I wish to thank you for calling me to see how the JOINT A-billi-T was working. In today's market place, I seldom get that kind of interest.

Secondly, I rate your product up there with sliced bread and baseball. I am finally nearing completion on an order for forty - yes, forty - tables for an Inn. The smallest ones are 14" x 18" and they go up to 36" x 72". Without a doubt, I could never have completed all those tops and aprons without the JOINT A-billi-T. I believe the production time for jointing the edges was cut at least 50%, not to mention the improved quality of the finished products and my sanity, when you must tease a stubborn board into matching with its cousin.

Anyone who is a serious woodworker, or perhaps anyone who wants to plane an edge on a board, needs a JOINT A-billi-T.

Congratulations on this wonderful improvement to the woodworking process. Like any process, each step must produce the desired results each time. With your product, this is possible.

Congratulations again for your contribution to woodworking.

Sincerely,
George Coates

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Resource Digest 2001

a few), they have tools for all woodworkers. Striving to be at the cutting edge of woodworking machine technology, Laguna Tools is committed and dedicated to giving their customers personal service and attention.

MULE CABINETMAKERS MACHINES

877-684-7366

www.mulecab.com

Almost 18 years ago, Mule Cabinetmaker Machine started producing North America's first aftermarket sliding table. They're still producing the Mule Sliding Table, which will crosscut up to 30" wide sheets; as well as the Mule Router Table, with a fence system that attaches to the Accusquare Rip Fence System.



Mule
Cabinetmakers
Machines

PANELPRO

800-599-1647

www.panelpro.org

PanelPro is a new kind of saw that will increase the productivity and simplicity of your shop. A single user can cut full-size sheets vertically and horizontally without assistance. Factory alignment to .030". Made by Safety Speed Cut.

PERFORMAX PRODUCTS

800-334-4910

www.PerformaxProducts.com

Founded on American ingenuity, Performax's impressive list of new and exclusive features have reinvented the drum sander of yesteryear. Combining performance and value is Performax's primary design objective. Performax is the only drum sander manufacturer to have earned multiple U.S. patents. Five drum sizes are offered: 16", 22", 25", 37" and 50". The 16" and 22" models can sand stock twice as wide as the drum, and the 25", 37" and 50" models are available with a fully adjustable second drum.



Performax

continues ...

(Circle No. 72 on PRODUCT INFORMATION form)

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KLOCKIT

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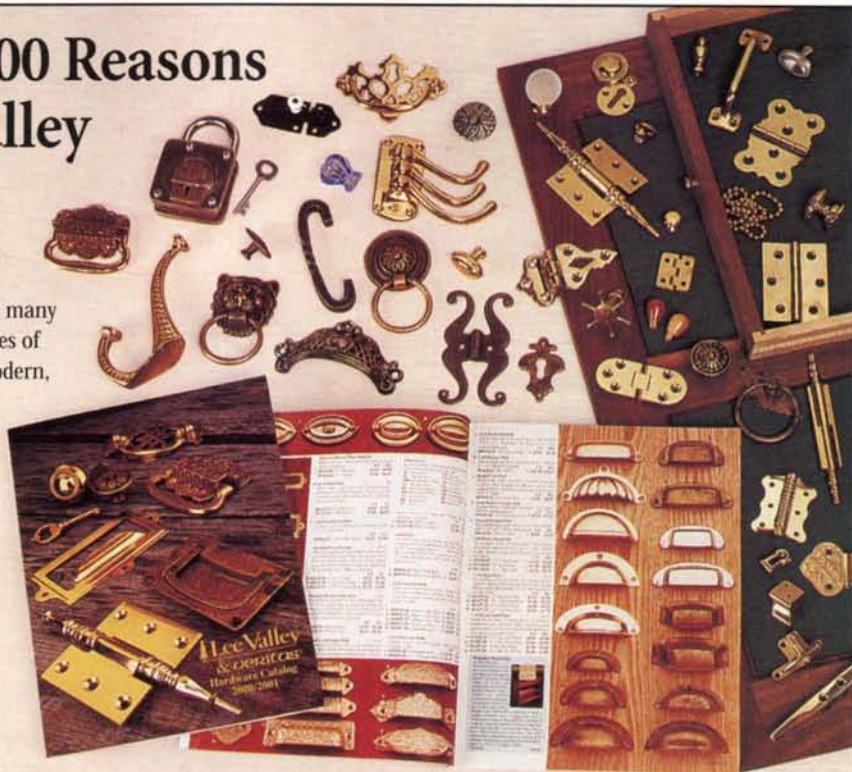
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Our full-color hardware catalog (100+ pages) greatly expands our hardware offering. There are significant additions to our current product categories, as well as many new ones. Extensive copy explains the benefits and uses of each piece. With hardware ranging from classic to modern, this catalog has the answers to your project needs.

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NEW! Laser "guided" Routing



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Pacific LaserCraft



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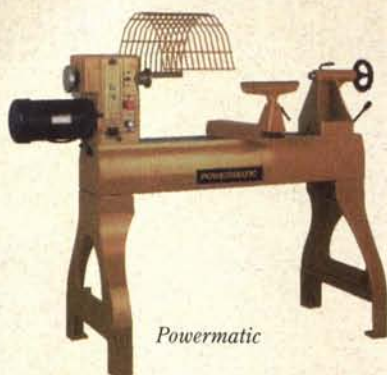
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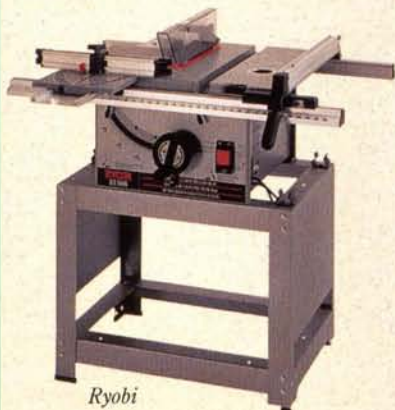
Powermatic

POWERMATIC

800-248-0144

www.powermatic.com

Since 1921, the name Powermatic has been a symbol of quality and innovation in the wood- and metal-working industry. A true American original, professionals and home craftsmen alike have been proud to own a Powermatic tool. Model 4224 Woodworking Lathe, which weighs in at 1,000 pounds, is Powermatic's heaviest lathe yet. Heavy-duty in every way, this tool is precise, powerful and fully equipped.



Ryobi

RYOBI AMERICA CORPORATION

800-525-2579

www.ryobi.com

Ryobi makes power tools, lawn and garden equipment, sporting goods and automotive die cast products at several U.S. facilities. Among these tools is the Ryobi 10" Precision Woodcutting System, model BT3000SX, which combines the performance of a stationary tool with the convenience of a benchtop table saw. The BT3000SX has a 15 amp dual belt-driven motor that drives the blade at a top speed of 4,800 rpm.

SHOPBOT TOOLS

888-680-4466

www.shopbottools.com

A PC-controlled tool that precisely moves a standard router in three-dimensional applications. ShopBot can convert a computer design into a wood, plastic or metal product once or over and over again. The ShopBot is a workshop robot at the command of you and your PC. A CNC router for under \$5,000.



ShopBot Tools

SHOPSMITH, INC.

800-543-7586

www.shopsmith.com

The Shopsmith MARK V is a five-in-one space-saving tool with the capabilities of a 34" lathe, 12" disc sander, 10" table saw, 16.5" vertical drill press, and horizontal boring machine.

SMITHY & Co.

800-345-6342

www.smithy.com

Smithy started out as an Oregon John Deere dealership, and has evolved into a company which focuses on tools that can handle all your projects — wood, metal or plastic — on one tool. The "SuperShop" can rip, crosscut, miter, bevel, dado groove, taper and more. A wide-range variable speed gives you burn-free cuts on any wood. Universal arbor accepts all major 8", 10" and 12" blades. Die-cast aluminum table measures 17 x 21".

TECH MARK, INC.

800-787-6747

www.tech-mark.com

Rojek, a traditional woodworking machine manufactured in the Czech Republic since 1921 is now available in the U.S. through Tech Mark. Once thought lost to the communist system, Rojek has made a remarkable comeback since the fall of the Iron

Curtain. Featuring a complete line of stationary woodworking tools and quickly becoming known for a very high standard of quality.

TORMEK, USA

800-586-7635

Edge tool sharpening is fast and easy with a Tormek water-cooled machine. The SuperGrind 2000 comes with a straightedge jig for planes, chisels and spoke shaves and Pro Angle Master to set any edge angle from 15° to 75° with 1° accuracy. A 115 volt motor powers an aluminum oxide grindstone at 90 rpm. They also offer a variety of jigs.

VIEL TOOLS, INC.

800-915-2601

A variety of sharpening machines and accessories are available through Viel. The Canadian company's AF-5 profile grinder grinds knives directly in the cutterhead. It has a capacity of 5½" diameter and 6" length and a grinding wheel which tilts 5° to each side for lateral clearance. A 1/3 HP motor powers the 54-grit wheel.



Shopsmith, Inc.

WILKE MACHINERY CO.

800-935-2100

www.wilkemach.com

Wilke Machinery Co. Inc. is one of the nation's largest mail-order suppliers of woodworking tools. Its products range from manufacturers' production machines to home shop equipment. Wilke has begun shipping Yorkcraft, a new, economical line for smaller pro shops and home woodworkers. The Yorkcraft line of cast iron tools includes two drill presses, a lathe, disk sander and shaper.

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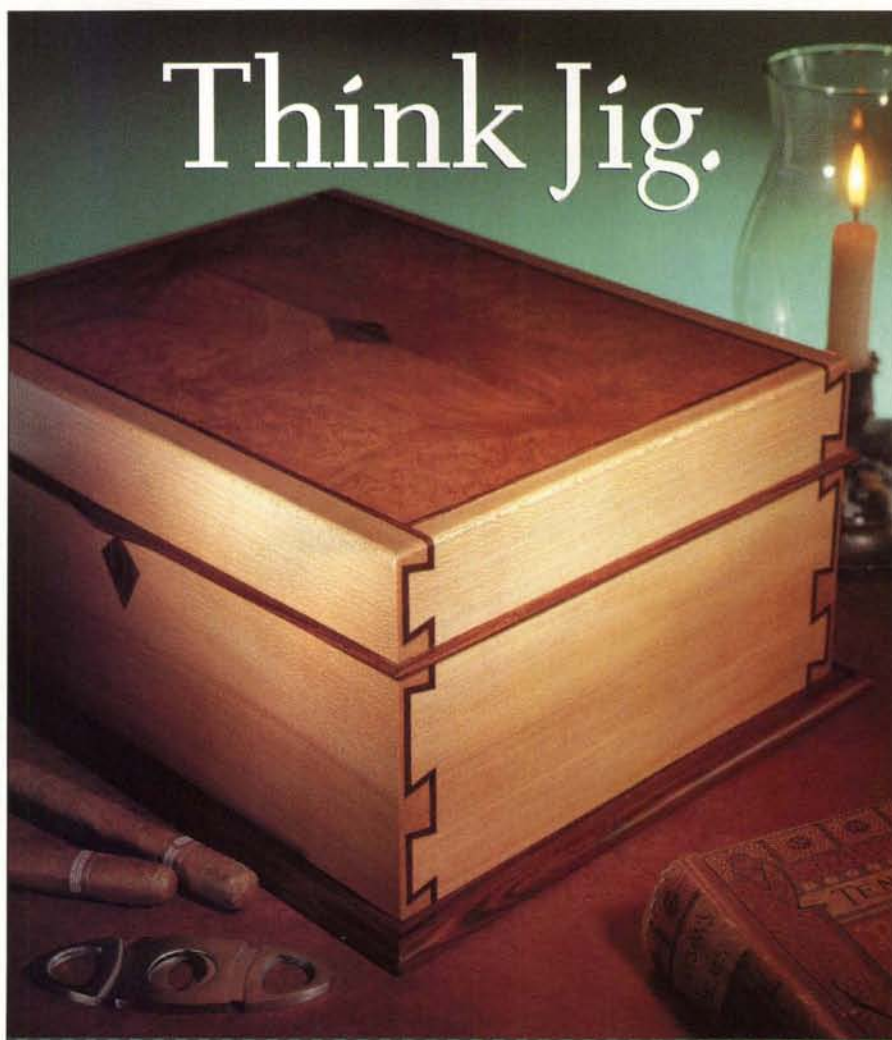
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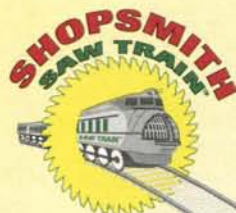
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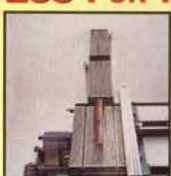


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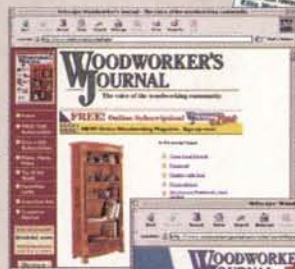
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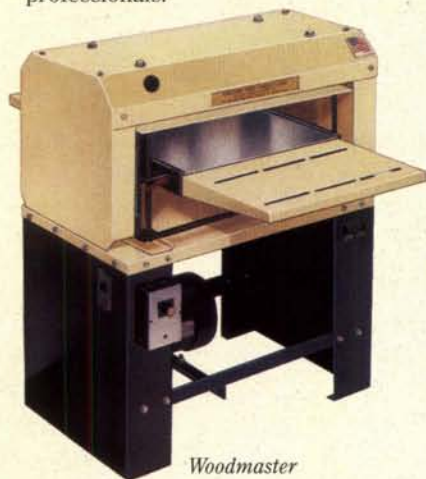
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Wood-Mizer

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www accuride.com

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www.badgerwood.com

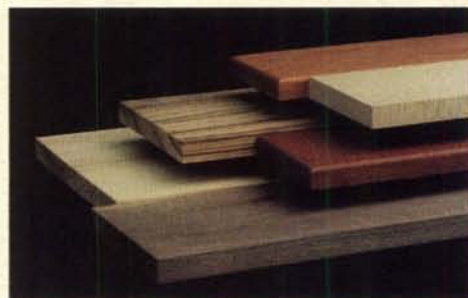
With customer satisfaction as their priority, Badger Hardwoods has reasonable prices on quality hardwoods from aromatic cedar, ash, aspen and basswood to butternut, cherry, mahogany, hickory and padauk — plus nearly every hardwood in between. Hardwood plywood is also available. Products are available by mail order.

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www.bristolvalley.com

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- Choose from 3 different carbide knives for different applications:

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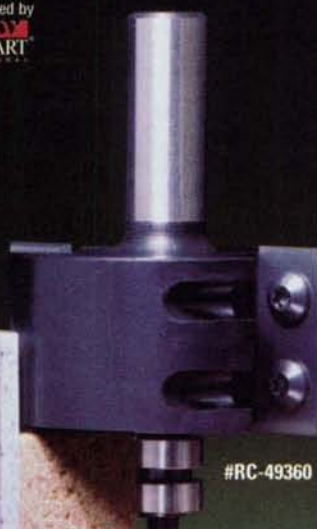
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#RC-49360



#RC-49355

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800-642-0011

www.emperorclock.com

Emperor Clock offers quality hardwood clock kits, furniture kits and fully assembled clocks. Their movements are engineered in Germany. The Edinburg grandfather clock comes in solid oak or cherry and stands 82 3/4" tall. Its features include a swan's neck crown with turned finial, generous molding and beautiful turned columns. A triple chiming cable driven movement and heavy-duty beveled glass are available. All parts are pre-cut and include detailed assembly instructions.

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www.excelglue.com

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Hut Products

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Klockit

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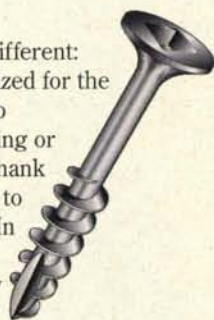
MAS epoxies, manufactured by Phoenix Resins, Inc., are "the most advanced, high performance, user-friendly epoxy formulas in the world." They support all their products with knowledgeable, easy to reach staff and offer a 100 percent money-back guarantee. Good for new construction, fiberglass™ and wood repair, laminating, blister repair and barrier coating, bonding and vacuum bagging.

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800-733-1776

Minuteman Furniture Restoration has scheduled two-day free intro restoration workshops to be held once each month at their Waterloo, Wisconsin Minuteman Institute. Workshops feature a look at stripping, repair, finishing, veneering, parts duplication, mirror resilvering, business operation and more. Minuteman also has a complete line of restoration products, equipment and systems.

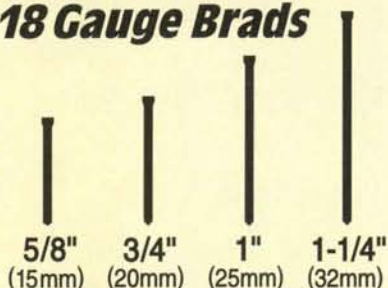
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ProSHOT.1**

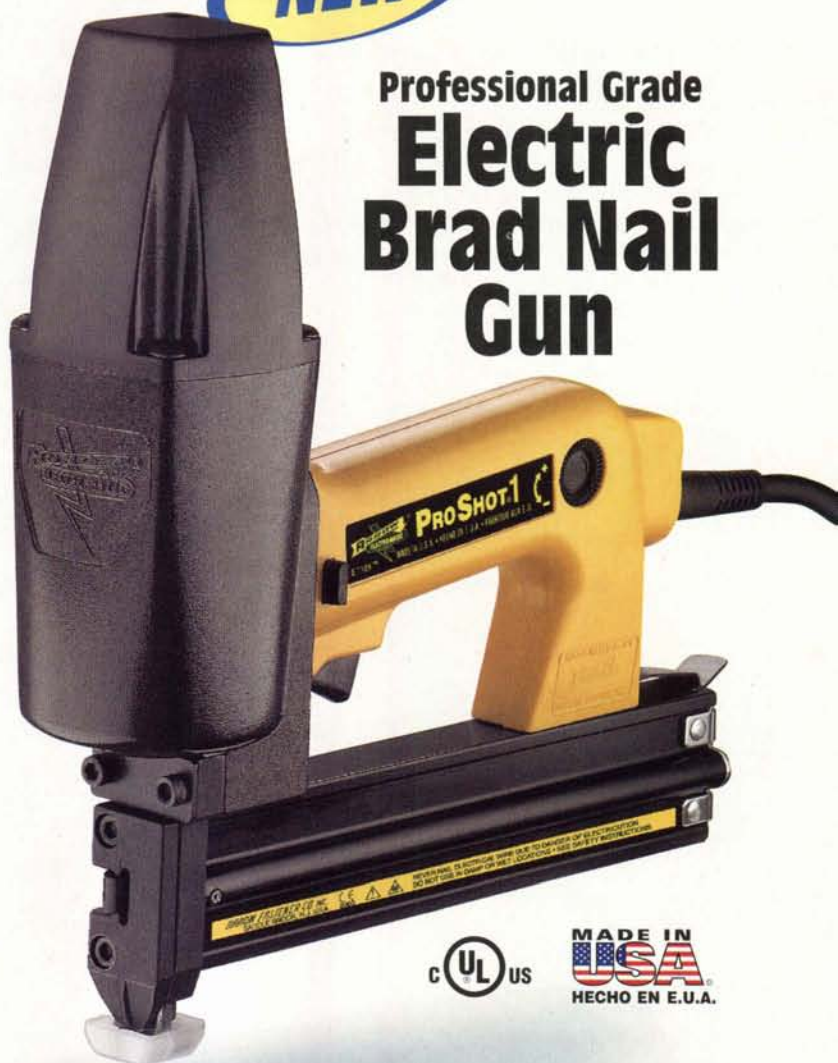


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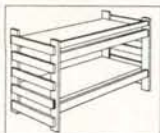
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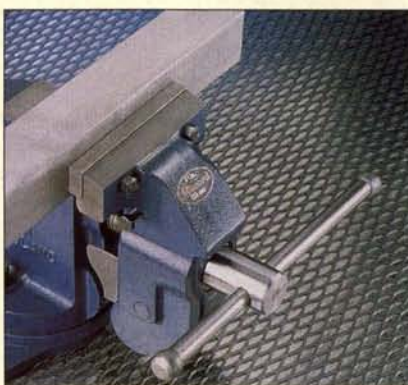
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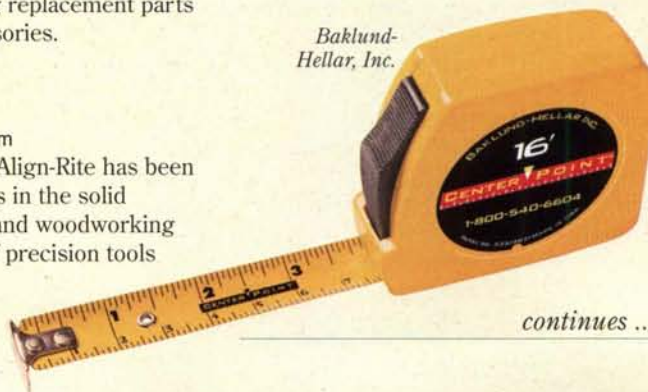
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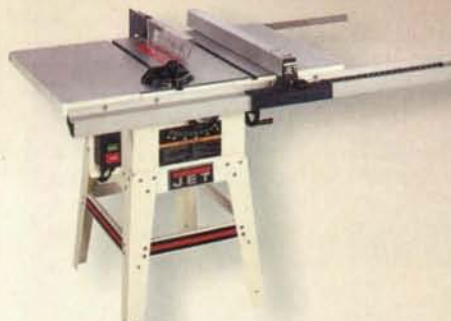
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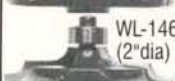
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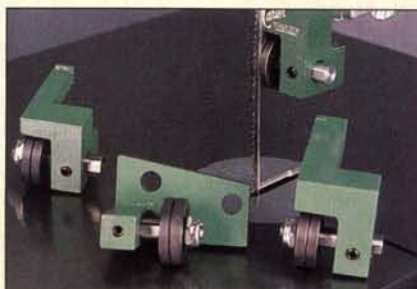
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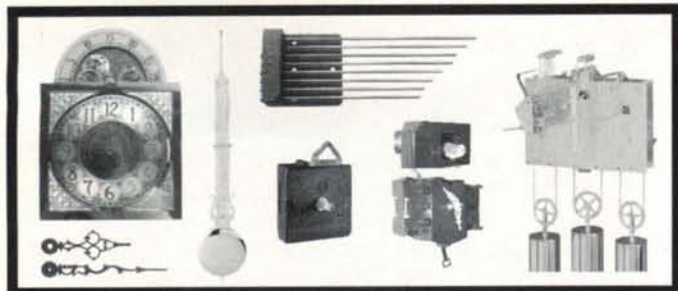
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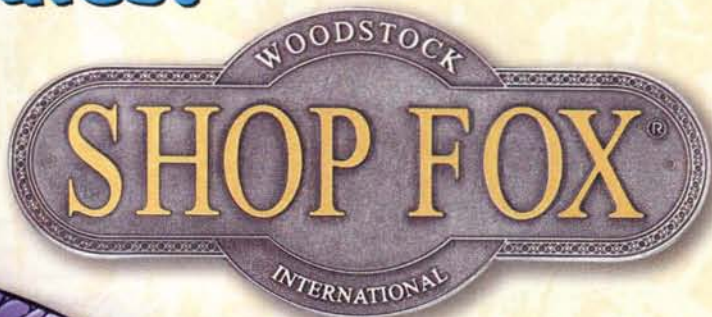
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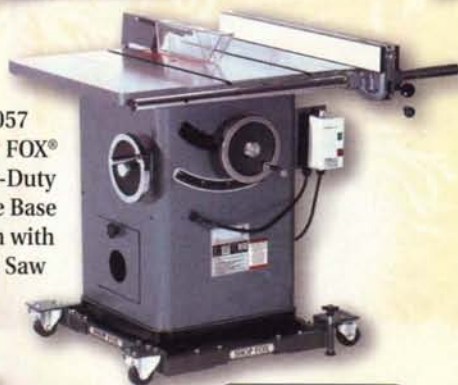
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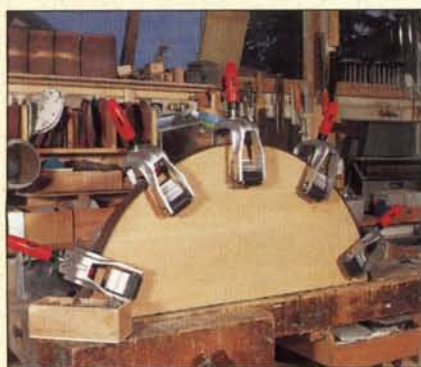
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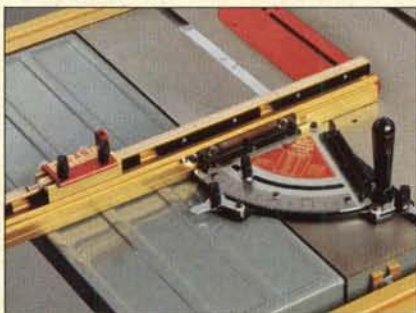
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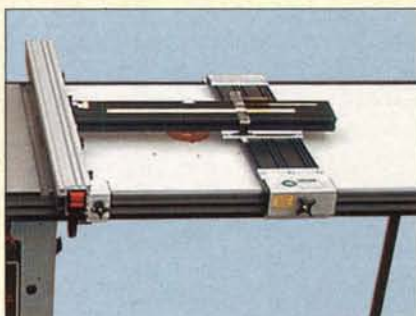
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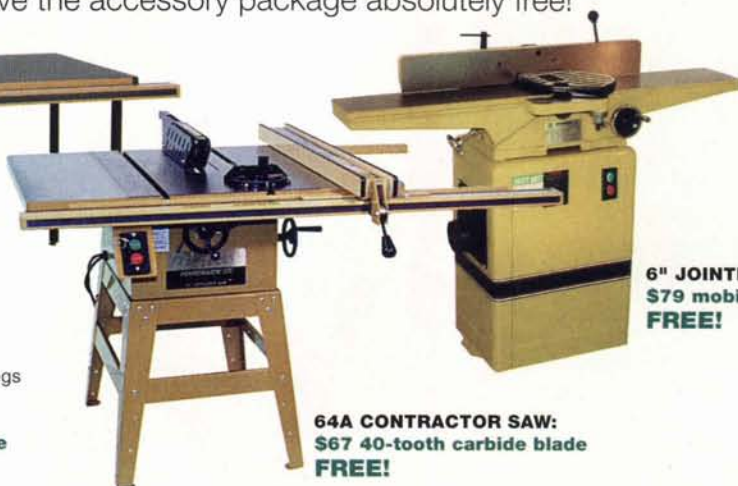
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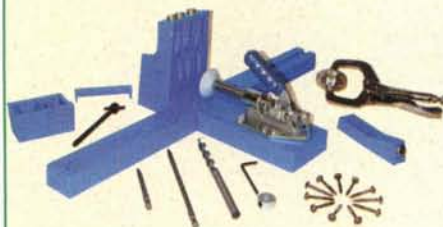
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250-485-0033

www.kirjes.com

Kirjes Swedish-made sanders can be mounted in a drill press, lathe, regular hand drill, or in a quality carving motor and handpiece. The company's latest product is the bowl sander, which solves the problem of locking and quick-changing of the sanding sleeves on a round pneumatic (inflatable) sander. With sanding sleeves ranging from 50 grit to 400 grit you are able to form, sand and finish off your round inside surfaces with virtually no hand sanding.



Kreg Tool Company

KREG TOOL COMPANY

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www.kregtool.com

Adding to its pocket hole jig, Kreg unveiled the KregJig K2000 ProPack this year. The innovative design features horizontal and vertical adjustability, which allows the woodworker to place pocket holes in preferred locations with simple adjustments. It will be the core component of the ProPack Pocket Hole System, which includes the K2000, the Mini Kreg Jig (a one-hole pocket hole tool), support wings, 6" face clamp, drill bit, 3" and 6" drivers, a starter pack of self-tapping screws, and a pocket hole plan for a footstool.

LASER ART

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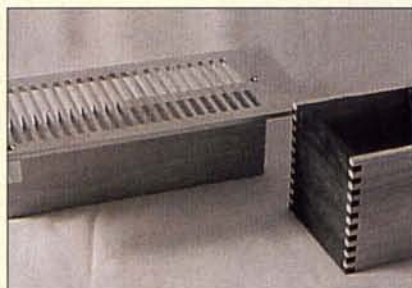
This router box joint jig requires a router with a 5/16" bushing and a 1/4" bit to cut box joints for boxes and drawers. The fixture is available in 1/4", 3/8" and 1/2" fixtures. Once you get used to this unit, you can work on all sides of the box at one time and create all four sides in less than 10 minutes.

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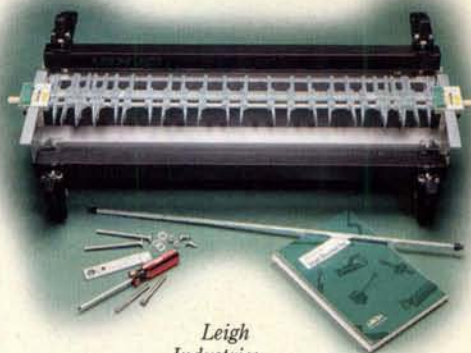
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saw. The Super Bar is a jig with an onboard precision dial indicator that measures alignment as it slides in the miter gauge slot to within .001 inch. The MasterPlate is a flat ground, solid 1/4" thick toolmakers quality aluminum plate. The MasterPlate replaces the saw blade and bolts onto the saw's 5/8" or 1" arbor to provide a full 10" of flat surface for aligning your equipment.

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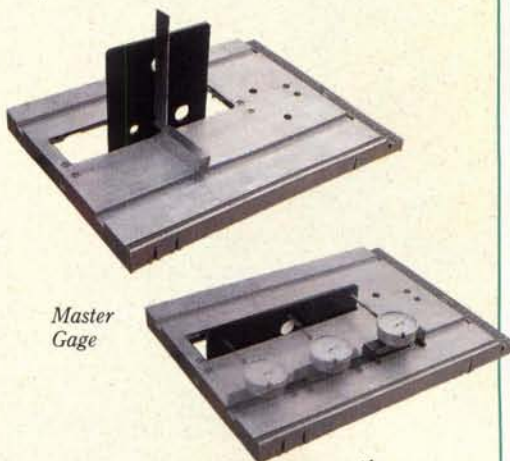
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MICRO FENCE is a precision Edge-Guide System for hand-held routers in both straight edge and circular woodworking applications. It provides micrometer-adjusted, measuring capability to maximize accuracy and efficiency. The system addresses all edge-referenced operations, with tack-sharp .001" readouts. Ordered router-specific, MICRO FENCE now interfaces with over 50 professional makes and models of router, including laminate trimmers.

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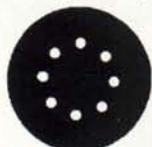
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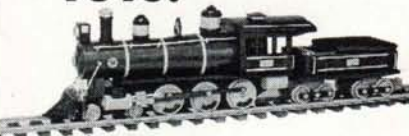
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