

# WOOD NEWS

Number 2

DEVOTED TO THE WOODWORKER AND HIS CRAFT

Feb.-Mar. 1978

## NEW WAREHOUSE PLANNED

The need for additional space in which to house our growing inventory of domestic and imported hardwoods has led to plans for a new warehouse to be built directly behind our store at 1837 Piedmont Road, N.E.

The new warehouse will be 2500 square feet in size, and will be used for storing, seasoning and selling hardwood lumber, as well as allowing more room for our custom millwork operation. An additional planer, longbed jointer, and rip-saw will be installed.

The new facility will also provide space in which to hold woodworking seminars and workshops for local amateur and professional woodworkers.

Construction of the facility is expected to begin in early Spring, as soon as our application for the building permit is approved. More news on this progress will be reported in the next issue of WOOD NEWS.

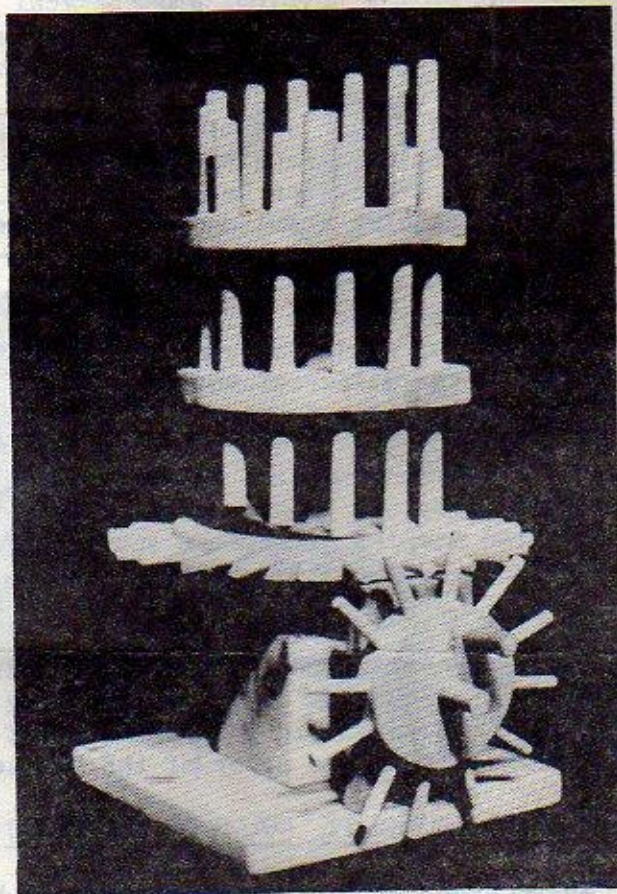
## WOODCARVER'S WORKSHOP SCHEDULED

The Atlanta Woodcarvers will provide six one-hour long continuous demonstrations of woodcarving at King Hardware on Saturday, February 18. The first one will begin at 10 a.m. and a new one will start each hour on the hour until the last one which begins at 3 p.m.

The members of the Atlanta Woodcarvers will emphasize getting started as a woodcarver, as well as information on tools, materials and techniques.

SATURDAY, FEBRUARY 18, 10 a.m.-4 p.m.  
KING HARDWARE  
1837 Piedmont Rd., N.E.  
Atlanta, Georgia 30324

Drop in at your convenience



## WHAT HAVE YOU MADE OUT OF WOOD LATELY?

Beginning with this issue, a regular feature of WOOD NEWS will be a section devoted to illustrating the handiwork of local woodworkers. You are invited to submit glossy black and white photographs of your wood creations along with a brief description of your construction techniques to WOOD NEWS, 1837 Piedmont Rd., Atlanta, GA 30324. We will try to include all items submitted in future issues, space permitting. If you wish to have your photos returned, please include a self addressed stamped envelope.

The concoction shown above is one of several do-nothing machines illustrated in Creative Wood Design, by Ernst Rottger, and copied here by Chris Bagby. How it works, along with more woodworking photos are on pages 6 and 7.



## DIFFERENT KINDS OF WOOD

by Leon Colwell

The first issue of WOOD NEWS contained some general information on woods. Several books and thousands of articles have been written on the physical and chemical characteristics of wood. However interesting, it is not necessary to acquire a vast knowledge of the subject in order to construct and finish beautiful, useful and durable articles ranging from a simple wall plaque to a Sheraton Desk. I think it is best to acquire knowledge of the properties of wood as you build articles in your shop.

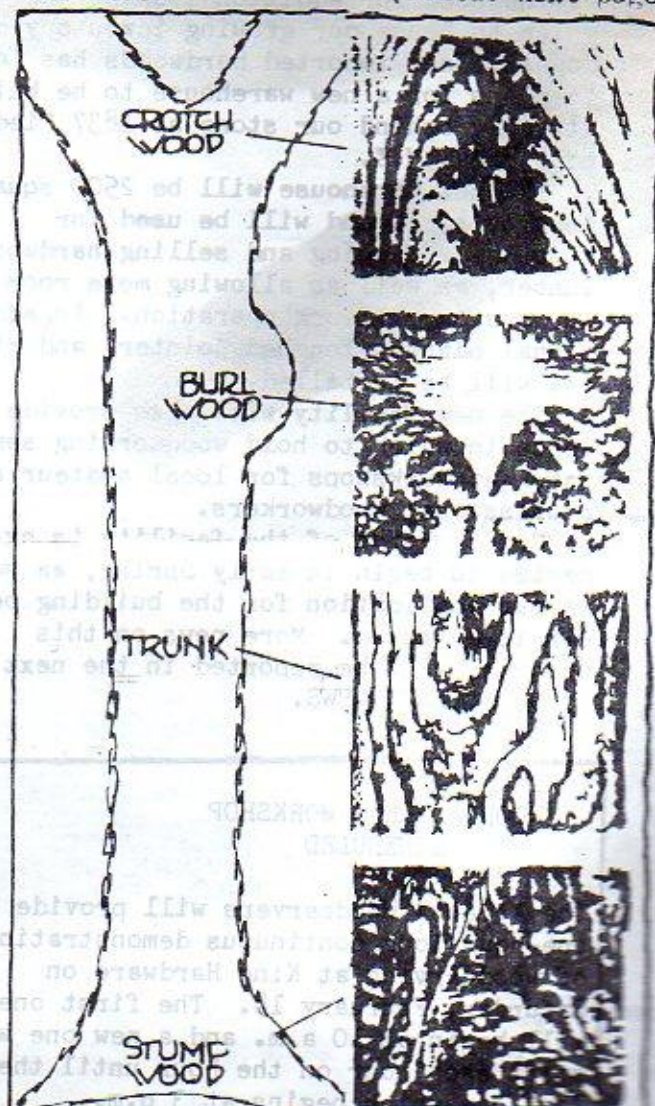
In this issue we will deal with identification of woods and some of the properties of the different woods. Since this publication is not printed in color we will not be able to include color photographs of the various species of wood. However, Chris Bagby has in his store well over a hundred samples of various species of wood, including some rare imported varieties.

Listed below are a few of the woods with which most of us will be working, the dry weight per cubic foot and a brief description of the color of the heartwood:

<u>SPECIES</u>	<u>DENSITY</u>	<u>COLOR OF HEARTWOOD</u>
White Pine	21	Cream, light/red. brown
Butternut	22	Chestnut brown
Poplar	24	Green to light yellow
Chestnut	25	Light to grayish brown
Red Cedar	27	Brick red to red. brown
Cherry	29	Light to dark red. brown
Sycamore	29	Dark to reddish brown
Walnut	32	Light to chocolate brown
Maple	32	Light reddish brown
Ash	34	Light to medium brown
Birch	34	Reddish brown
Red Oak	32-38	Reddish brown
White Oak	36-40	Light to dark brown
Beech	39	Reddish brown to off white

These brief descriptions in no way adequately describe the colors of the species. Walnut, for instance, is described as light to chocolate brown. It may be that the first piece of walnut you pick up will contain a purple streak or a streak that is almost black.

Natural defects in wood are those abnormalities which are due to growth and environment, and include knots, reaction wood (tension and compression), spiral and diagonal grain and mineral streaks to name a few. Again using walnut as an example, the color and the grain pattern around a knot will be varied. The weight and movement of the limb causes tension and compression to occur, causing a change in the characteristics of the wood around the knot. (contd. next page)



CROTCH is the point where the trunk forks into two or more branches.  
 BURL is a place where wood has grown over an injury to the tree.  
 A KNOT in a piece of sawed lumber is a portion of a branch or limb.  
 STUMP WOOD consists of the lower portion of the tree and the major branches of the roots.



Furniture manufacturers and woodworkers call this crotch walnut. Due to the presence of an excessive amount of lignin in this area it is much more dense and is harder than portions of the wood with no natural defects.

Natural defects in a board or piece of wood alter the workability of the piece. It goes without saying that a knot, burl or crotch is more difficult to plane, sand, saw or carve than that portion which contains the normal grain. The chart above shows the density of wood which is expressed in weight per cubic foot. It is generally true that the heavier the wood the more difficult it is to work. Butternut is very popular with wood carvers because it is relatively easy to carve. Note that the weight per cubic foot is 22 lbs. which is relatively light. I should also like to point out however, that many wood carvers prefer harder, denser wood.

In a future issue we will discuss wood joinery and preparation for final finishing, including planing, sanding, staining and sealing. We hope also to include some articles by experts on various phases of woodworking. If you would like access to more reference material on woodworking, King Hardware has an excellent selection of books, magazines and periodicals covering all types of woodworking operations. You are invited to browse through and choose the books which deal with your interests.

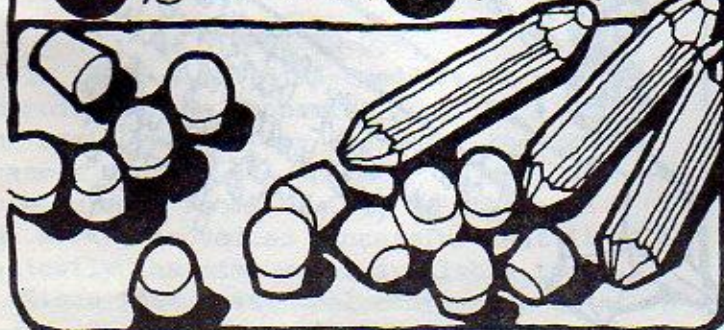
## COASTAL

TAPERED PLUGS FLUTED DOWELS

201 1/4" 20 for 99 204 1/4 x 1/4 36 for 99

202 5/16" 20 for 99 205 5/16 x 1/2 33 for 99

203 3/8" 20 for 99 206 3/8 x 1/2 30 for 99

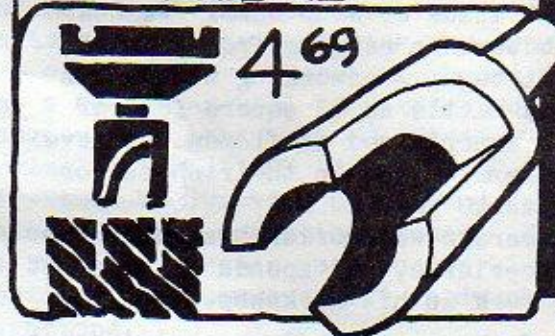


## PLUG CUTTER

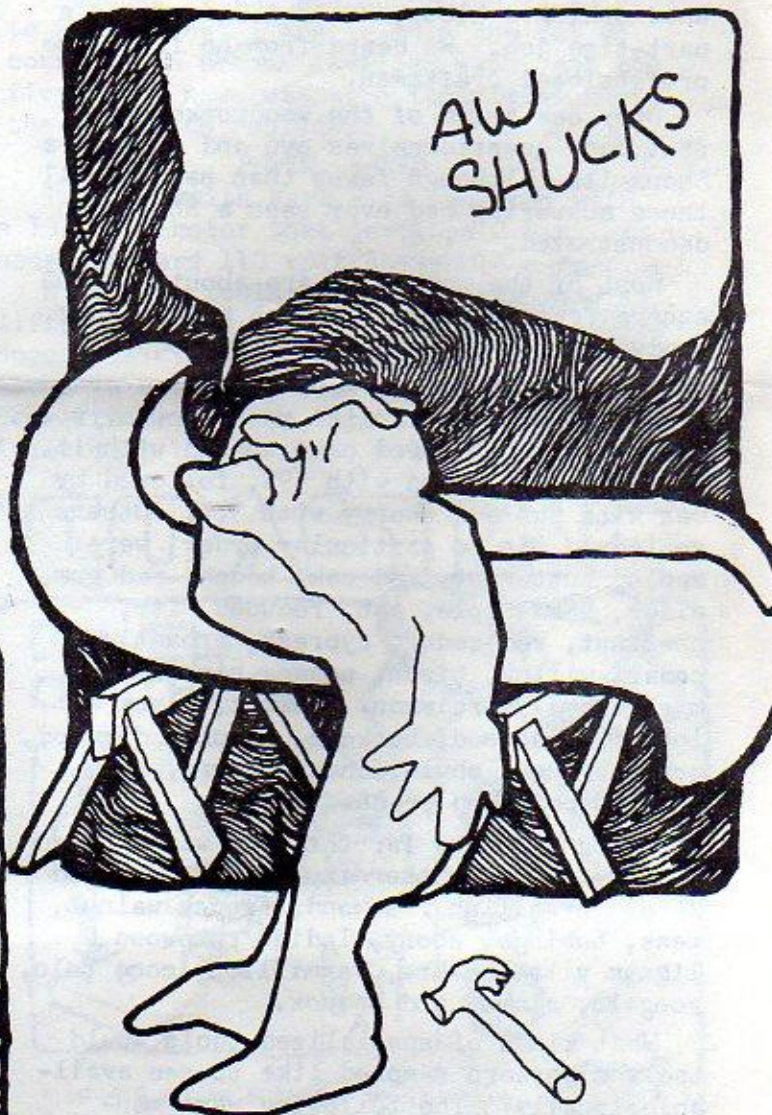
USE FOR

207 3/8" 208 1/2" 209 5/8"

HOLE SIZE



STANLEY



Editor, Art Worker  
Sue Stewart  
Contributions  
Chris Bagby  
Leon Colwell  
Bob Kelley  
Robert King



## RESULTS OF THE WOODWORKING SURVEY

Dozens of woodworkers completed and returned the questionnaire sent out with the first issue of WOOD NEWS. We heard from woodworkers ranging from some who have just begun woodworking with shops having as little as 12 square feet of space to experienced craftsmen who have built up and worked in their shops for as long as 40 years.

The average woodworker has about 14½ years experience, and spends about eight hours a week in his workshop.

83% of those responding consider their woodworking a hobby, while 17% do it as a part-time job. We heard from no full-time professional craftsmen.

Over one third of the woodworkers who sent back questionnaires own and operate a Shopsmith, although fewer than half of all those answering had ever seen a Shopsmith demonstrated.

Most of the workshops are about 200-300 square feet in size, although a few lucky woodworkers have as much as 1000 square feet in which to work.

Walnut seems to be the most popular wood. 67% of those surveyed have worked with it. Pine came in second with 59%, followed by oak with 44% and cherry with 37%. Others mentioned (in no particular order) were: maple, butternut, red oak, beech, red gum, alder, hard maple, ash, redwood, fir, chestnut, red cedar, cypress, aromatic cedar, willow, birch, pecan, hickory, myrtlewood, persimmon, apricot, black locust, basswood, buckeye, spruce, dogwood, osage orange, apple, choke cherry, plum, orange, pear and peach.

Mahogany is by far the most widely used imported wood. Other imported woods used were: Brazilian rosewood, French walnut, teak, bubingo, ebony, Indian rosewood, lignum vitae, zebra, vermillion, coco bolo, gongalo, alves, and paduok.

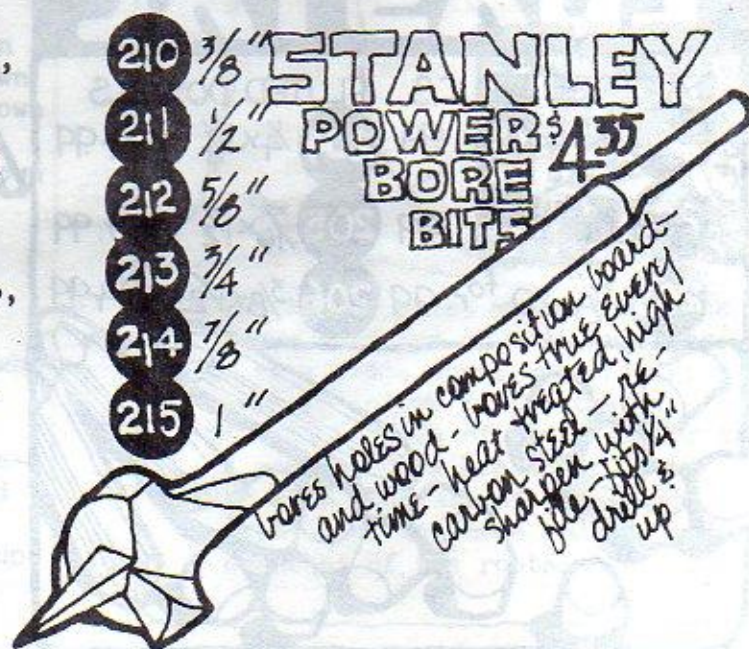
What kinds of specialized tools would the woodworkers sampled like to see available locally? The following were mentioned: carving tools, bench screws, sharpening stones, imported tools, fine hand tools, finishing materials, planes, clamps, lathe chisels, European work benches, low cost work benches, butt chisels, a variety of glues, bow saws and blades, and dovetail saws.

Over 90% of the woodworkers responding asked, begged, and pleaded for seminars and short courses on woodworking. Other services most desired are: source of related literature, furniture plans and designs, custom millwork, and mail order service.

Other potent comments written on the questionnaires included these:

I hope to visit your store ASAP. We have had difficulty obtaining hardwoods in this area.....more detailed demonstrations on how to get the most out of Shopsmith and other power tools.....more written material like WOOD NEWS and SHAVINGS FROM SHOPSMITH .....feature a monthly sketch or drawing of a wood project.....glad to know where there's a planer. KEEP ON GROWING..... perhaps a woodworkers club....the best of luck. Atlanta really needs a shop such as yours.....good reference books and PLANS especially are hard to locate. I think seminars and short courses would be well attended.....most programs are initiated for very crude work! One is needed for fine woodwork.....I own a Shopsmith with band-saw, jointer, molder, shaper and dado attachments, I also own my own sawmill and a Belsaw planer-molder. My main need right now is for more time to pursue my hobby.....think the idea of making hardwoods available to the woodworker is an excellent one. Will also look forward to future issues of WOOD NEWS.

To all those responding, thanks for your ideas and your support.





# THE STORY OF SHOPSMITH

In 1947, an important breakthrough in woodworking occurred. A WW II defense industry scientist, Dr. Hans Goldschmidt, invented a multi-use woodworking tool.

The versatile new tool, called Shopsmith was designed to offer the capability of the five most important power tools used in home workshops from one power source. The Compact unit could be operated as: 1) table saw, 2) disc sander, 3) horizontal boring machine, 4) vertical drill press, and 5) lathe...yet it occupied just a few feet of space. To this day no other manufacturer has been successful in developing a multi-use tool to compete with the Shopsmith.

## UNIQUE DESIGN CONCEPT

Dr. Goldschmidt's Shopsmith was an immediate success. In three years, more than 50,000 were sold. Shopsmith gave the woodworker the tools he needed--in a compact package that a working man could afford. Initial resistance centered around the old saying that says anybody or anything that tries to do too much, ends up doing nothing well. Shopsmith proves the adage untrue. Shopsmith achieved maximum efficiency by engineering complete compatibility and non-duplication of the four basic parts that make up every stationary power tool: 1) a motor, 2) a spindle, 3) a table, and 4) a bench.

By attaching various tools (saw blades, drill bits, etc.) to the spindle and changing the relationship of the operating tool to the table, Shopsmith design permitted each tool operation to be performed in the conventional tool manner.

## SIMPLE TO USE

In 1953, a new "improved" model was introduced, the Shopsmith Mark V. Although the basic concept was the same, the design changes enables the operator to change more quickly from one tool to another. The Mark V proved so successful that it's basically the same model available today.

Since fast, easy tool conversion is a key to Shopsmith's efficiency, every machi-

machine comes with a well-illustrated instruction booklet that takes you step-by-step through the proper techniques of tool changeover. The instructions and illustrations are so complete they show you where to stand and how to make every hand movement. It's like having a professional instructor showing you every step of the way. After a few hours practice a new owner will be making tool changeover in less than 60 seconds.

Also included is a 233 page, 10 lesson Self-Study Woodworking Course and a companion 324 page operating manual. Between the two, they answer your woodworking questions and show over 150 woodworking operations.

Another reason why Shopsmith is so easy to use is that there is only one set of controls to become familiar with, not the five you'd have with the individual tools the Shopsmith replaces.

## POWER, SPEED

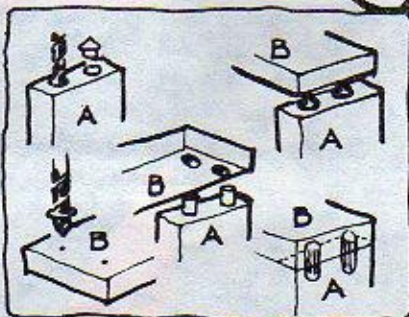
The Shopsmith Mark V is equipped with a 13.5 amp motor that develops 2 h.p. It uses standard 110 volt household current.

Different tools and operations require different speeds. The Shopsmith exclusive speed dial lets you adjust speeds (while motor is running), from 700 to 5200 RPM. No belts or pulleys to change like on individual tools.

(contd. p. 11)

# COASTAL

## DOWEL CENTER SET



246 1/4"

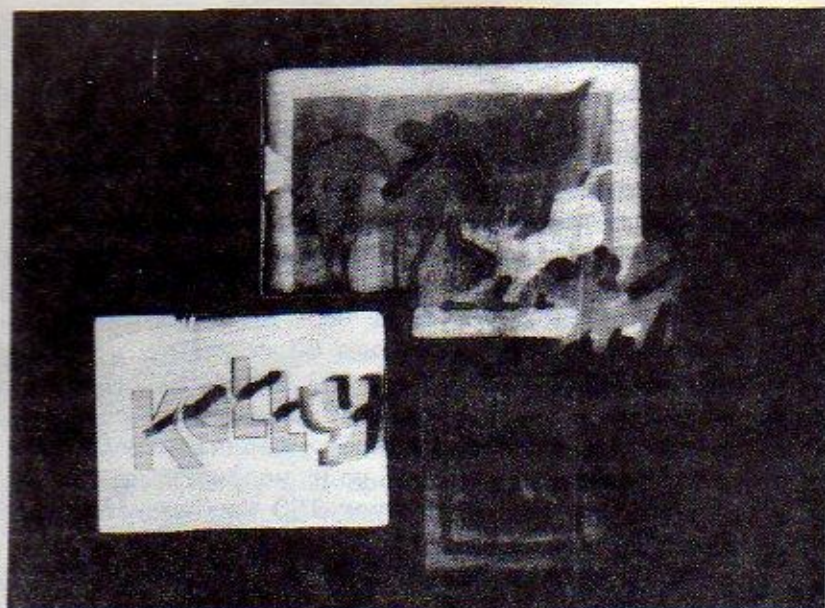
247 5/16"

248 3/8"

99¢

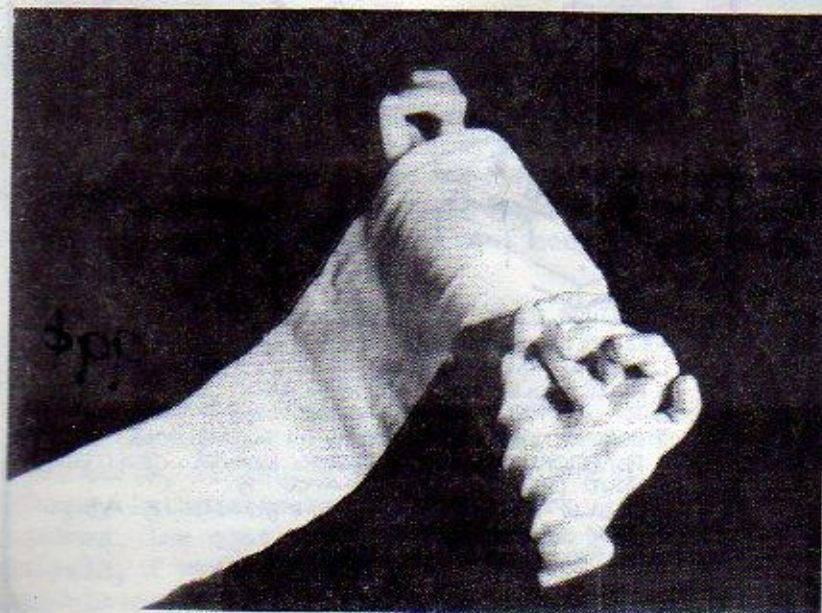
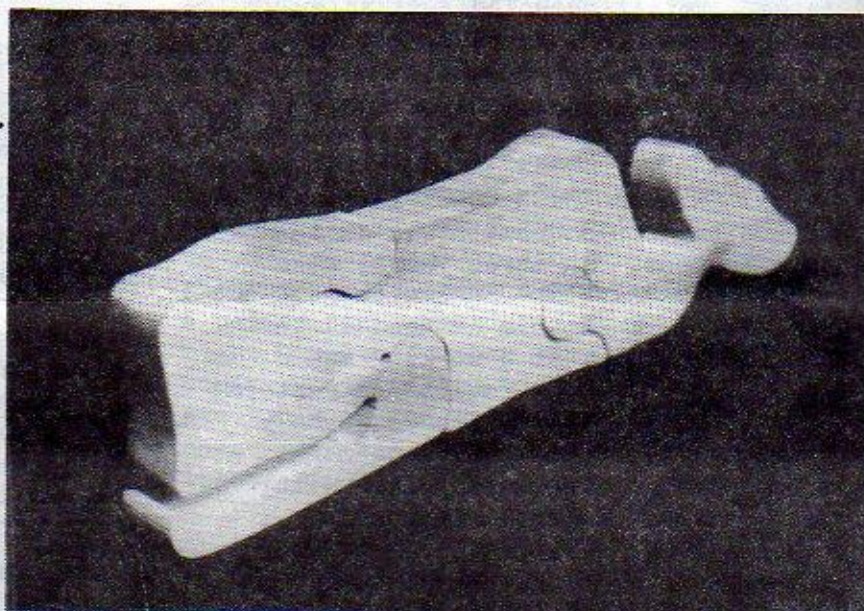
- 1 LOCATE DOWEL POSITION ON BOARD A.
- 2 DRILL HOLES TO A DEPTH EQUAL TO ONE HALF DOWEL LENGTH.
- 3 INSERT DOWEL CENTERS IN EACH HOLE.
- 4 POSITION BOARD B OVER DOWEL CENTERS AND LIGHTLY TAP BOARD B.
- 5 DRILL PUNCH MARKS IN BOARD B AS PER INSTRUCTION 2.
- 6 INSERT DOWELS AND GLUE.





The toy puzzles shown above have wooden handles attached to each of the pieces making them easy to play with by kids one year old and older. Sue Stewart created these using the Dremel Moto-Shop scroll saw. The relief carving of King Hardware's logo was done using the Dremel Moto-Tool.

This happy whale puzzle pictured below is suggestive of the many puzzles which can be cut out quickly and easily using a bandsaw or jigsaw. This one was made by Chris Bagby using 1" soft maple.



This handy piece of hardware at left can be yours for \$45. Created by Sue Stewart using the bandsaw and disc sander of her Shopsmith along with Dremel's tiny drum sander and X-Acto carving knives, this unique holder for toilet paper or paper towels is available from her on custom order. 872-6902.

DO NOTHING MACHINE (illustrated p.1)

Turning the crank rotates the horizontal cog wheel. This revolves the circular inclined plane, causing the vertical dowels to glide slowly up the inclined plane until they reach the end, upon which they drop one at a time in audible rapid succession back to the base before once more beginning the journey up again.

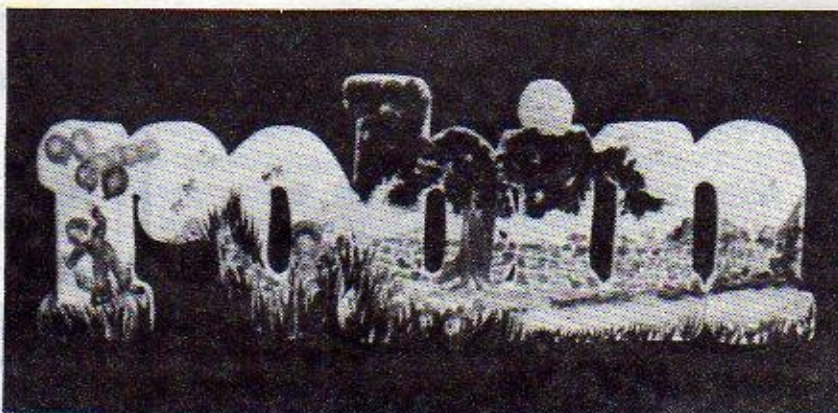


**WOOD GOODIES** are personalized objects manufactured by Mitzi Rothman of Atlanta, and she is soliciting custom orders.

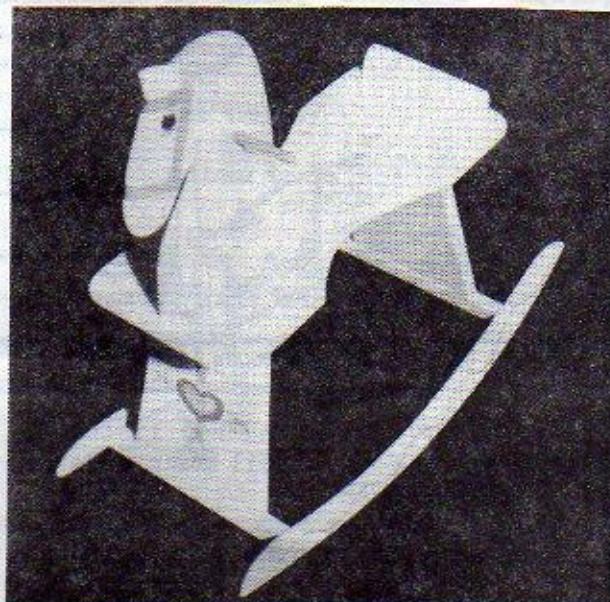
The photographs at right hardly do justice to the colorful details and cute designs which she has employed. She is specializing now in wall name plaques, which cost \$5 per letter for the first five letters and \$2.50 for each additional letter. **ROBIN** at right measures about 8" x 24".

Mitzi also makes ornaments for key chains and necklaces per your specifications for \$5 each, and complete hanging mobiles for about \$30. Her work is done mostly using basswood finished with acrylic paints, and she depends heavily on her Dremel Moto-Tool and Moto-Shop, two tools which she strongly recommends for the home workshop.

For more information on **WOOD GOODIES**, call 934-8694.



The wooden tool chest above was designed and built by Bob Kelley. The handle is applewood, the top and bottom are cherry, and the sides are a beautiful ash burl. The entire box was finished with tung oil.



The rocking horse above was built and painted by Clay and Mozelle Bagby of Toccoa, Ga. for granddaughter Kelley Bagby of Atlanta.







BOOK REVIEW  
by Bob Kelley

R.J. DeCristoforo, editor for Popular Science and author of Power Tool Wood-Working for Everyone has written a handy little reference manual for the home craftsman, How to Build your own Furniture.

The major problem most "complete" wood-working books have, if they truly are complete, is good organization and depth in a specific area. You generally wind up wading through a myriad of facts only to find an answer pared of the whys and wherefores. DeCristoforo has limited the text to the materials and traditional joinery of furniture construction.

The first section on materials and assembly tools is loaded with tables and charts on standard sizes of lumber, plywood and hardware. These are quick and easy to refer to and the text covers when to use what, where and why. The section on shopping tips for lumber alone should save you the cost of the book (\$3.50) on your next buying spree.

Furniture style is determined by the taste of the time period, fad and fancy, but good design is determined by function and the type of material being used. For example, a leg is a leg; whether it is a Hipplewhite or a Papeneck, on a table, desk or chair, there are only so many ways to make and attach a leg. The leg is one of seven component parts or sub-assemblies covered in detail with excellent line drawings for clarity. By combining various components and altering dimensions to suit the function, you have the essential information necessary to build any style of furniture you might want.

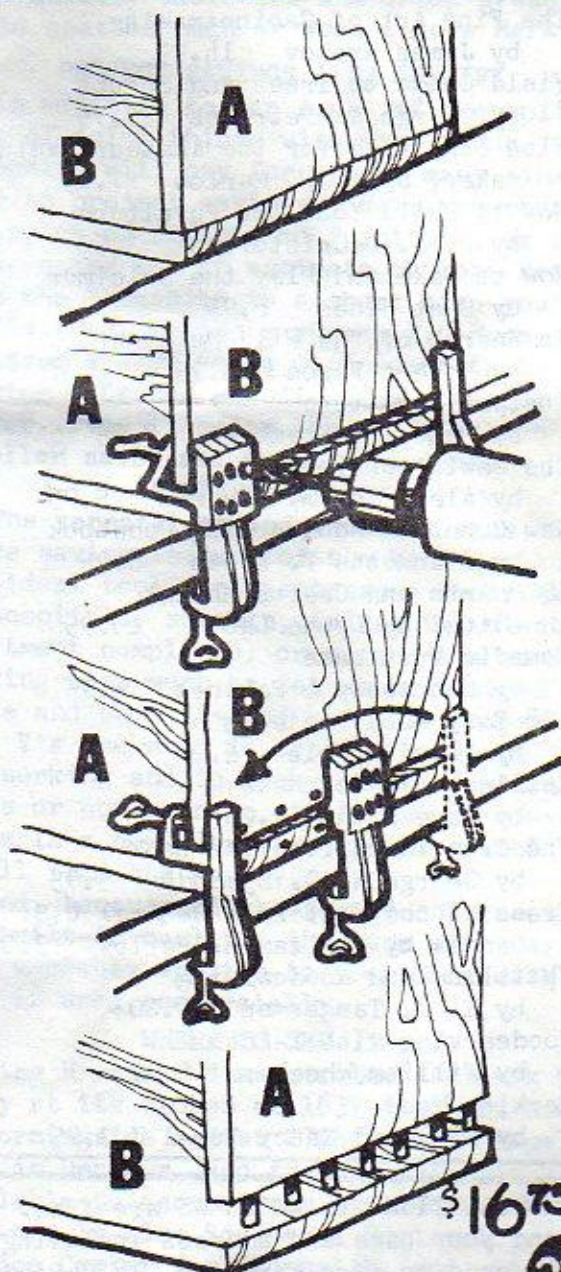
For example, put a slab or broad surface on legs and you have a table. Add drawers and panels and you have a desk. Remove the kneehole and shove it against the wall and it becomes a chest. Add doors, a cabinet, and so on.

This is not to say that encyclopedic compendiums that cover everything from how to play Dixie with a hammer and a hand-saw to how you can make pine look almost like walnut are not important. They are. But for the novice who wants to know why

plans that call for a blind rabbet in the bottom of a French drawer don't include air holes, or the old pocketknife carpenter with a design problem, How to Build Your Own Furniture would be a welcome dog-eared addition to the shop shelf.

## DOWELLING JIG CLAMPS

A UNIQUE SYSTEM FOR DOWELLING  
LARGE BOARDS  
• JUST CLAMP AND DRILL •



222



## KING HARDWARE'S WOODWORKING BOOKLIST

- A Museum of Early American Tools  
by Eric Sloane 2.95
- A Reverence for Wood  
by Eric Sloane 2.95
- American Folk Toys  
by Dick Schancke 4.95
- The Art of Making Wooden Toys  
by Peter Stevenson 4.95
- The Art of Woodturning  
by William W. Klenke 8.95
- Cabinetmaking and Millwork  
by John L. Feirer 19.95
- Country Furniture  
by Aldren A. Watson 10.95
- The Encyclopedia of Furniture Making  
by Ernest Joyce 14.95
- The Fine Art of Cabinetmaking  
by James Krenov 14.95
- Field Guide to Trees and Shrubs  
by George A. Petrides 5.95
- Fine Furniture for the Amateur Cabinet-  
maker, by A. W. Marlow 7.95
- How to Build Your Own Furniture  
by R. J. DeCristoforo 3.50
- How to Make and Play the Dulcimer  
by Chet Hines 6.95
- In Search of the Wild Dulcimer  
by Robert Force 3.95
- Instant Furniture  
by Peter S. Stamberg 7.95
- The Making of Tools  
by Alexander G. Weugers 5.95
- New Complete Woodworking Handbook  
by Jeannette T. Adams 8.95
- 1978 Arts and Crafts Market  
edited by Lynne Labin 10.95
- Nomadic Furniture  
by Hennessey & Papanek 4.95
- 198 Easy Wood Projects  
by Floyd Morris 4.00
- Selling What You Make  
by Jane Wood 2.25
- The Tree Identification Book  
by George W. D. Symonds 5.95
- Trees of the Eastern & Central U.S. &  
Canada by William H. Harley 2.00
- Whittling and Woodcarving  
by E. J. Tangerman 3.00
- Woodcarving with X-Acts  
by William Wheeler 6.99
- Working Wood  
by Mike and Nancy Bubel 3.95

SUBSCRIPTIONS to WOODNEWS are free.  
Send your name and address including  
zip code to King Hardware, 1837 Piedmont  
Road, Atlanta, GA 30324. Why not sign  
up a friend?

## HERE'S WHAT YOU GET WITH YOUR SHOPSMITH MARK V:



### A 10" TABLE SAW

... gives a 3¼" depth of cut with a 48" rip capacity. Use for ripping, cross-cutting, mitering, beveling, grooving, molding, dadoing and rabbeting. Speed Dial permits power sawing.



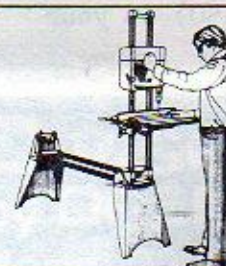
### A 12" DISC SANDER

... for edging, jointing plywood, bevel sanding, duplicate sanding, angle sanding, dowel pointing, surfacing and chamfering. Capacity equals or exceeds industrial sanders.



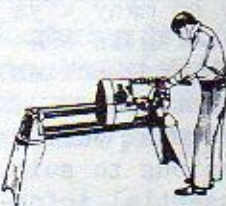
### A HORIZONTAL BORING MACHINE

... offers unlimited capacity for doweling, mortising and concentric drilling. Speed Dial insures correct speed.



### A 16½" DRILL PRESS

... exclusive speed dial insures correct speed for drilling, mortising, routing, shaping, metal drilling and reaming.



### A 34" LATHE

... big 16½" swing for face plate turning, speed range from 700 to 5200 r.p.m. with exclusive speed dial. Use for spindle turning, face plate turning, concentric drilling, taper turning, metal spinning.

PLUS ... a rugged 1½" rated h.p. motor and exclusive variable speed that gives you the right speed and power for all operations.

**NOW ON SALE**  
**\$849**  
(REGULAR \$895)

**AVAILABLE NOW FOR  
IMMEDIATE DELIVERY**



(contd. from p. 5)

### COMPLETE SYSTEM

You'll never outgrow your Shopsmith Mark V. It is part of a complete wood-working system with additional add-on tools; plus tool setups available as optional accessories. You start with the Mark V and as you advance in woodworking, you can add a bandsaw, jointer, beltsander, or jigsaw. There are also accessories that can be added to your Mark V for shaping, mortising, dadoing, routing, molding, and grinding. And as you add optional accessories you have substantial savings over individual tools designed for a single purpose because you're not buying a separate motor, spindle, table and bench each time you add another tool to your shop.

Please don't be confused. Some critic's objection that you're "always changing over" simply isn't so! Woodworking isn't done by hopping from one tool to another. You plan your projects so you do your sawing, then drilling, etc.

Shopsmith owner Fred Wescott of North Scituate, Mass. sums it up best when he said: "I've heard objections about frequent lengthy changeovers from people who do not own a Shopsmith Mark V, but I've never heard it from a Shopsmith owner."

### ACCURACY BUILT-IN

No matter who flips the switch--experienced craftsman or beginner--the Mark V performs with the same accuracy. Precision positive stops, ability for micro-adjustments, and convenient ready-to-use jigs help make it possible. A unique "borrowing of features" principle also helps.

What is meant by "borrowing of features? Since it's exclusive with Shopsmith, it's possible you haven't heard of it. The Mark V combines the features and parts of five individual tools into one multi-use unit. When it's operating as any one of the five tools you can "borrow" features or parts from the other four and use with the tool in operation.

For instance, the rip fence you always see on the table saw can be used as a backstop when drilling dowel holes on the boring machine. When used with the sander the rip fence can be used as a guide for parallel edge sanding. It can also be used as a guide for centerline drilling on the vertical drill press. All of these exclusive operations plus all the others

possible using the "borrowing of features" principle are outlined in the operating manuals.

### COSTLY TO DUPLICATE

When you compare Shopsmith, feature to feature and capacity to capacity, with individual power tools, you're in for a real surprise. To duplicate the features and capacities of the Mark V in individual tools, would require buying commercial tools at three times the cost of a Mark V. And many of the features can't be duplicated at any price.

Of course you could purchase a table saw, sander, drill press and lathe at less than commercial prices. But, even then, a good quality table saw and drill press would cost as much or more than a Mark V.

### PROJECT SAVINGS ALSO JUSTIFY

In addition to the sense of accomplishment of doing things with your hands, the Shopsmith will pay for itself many times over in project savings. Have you checked the price of unfinished furniture, or asked a carpenter for an estimate on home repairs? With the Shopsmith in a short time you'll handle these projects yourself. From building a bird house with your son to repairing a broken spindle of an antique rocker...you'll enjoy the satisfaction of a dollar saved and a job well done.

### COMMERCIAL USES

The versatility and accuracy plus the space saving feature of the Mark V make it the ideal tool for maintenance departments of hospitals, schools, industrial plants, apartment complexes, or anywhere a wood-working shop must be set up in limited space and on a limited budget. Shopsmith Mark V's are used in schools to teach woodworking and in hobby shops of military bases or condominium complexes. Wherever there is a need for a woodworking tool, you'll find the Mark V.

And, because of the rugged construction and built-in quality, the same one year full warranty applies to your Shopsmith even if used commercially.

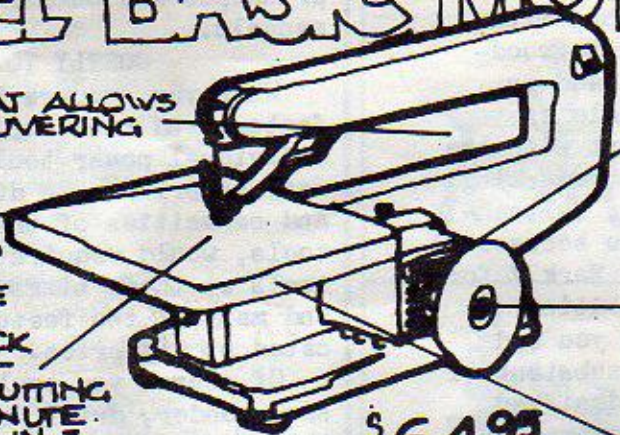
### WHERE TO SEE IT

King Hardware demonstrates the Mark V daily at its stores at 1837 Piedmont Road in Morningside and at 2724 Wesley Chapel Road in Decatur, and trained salesmen are available to answer your questions. King Hardware is also Southeast Regional Service Center for Shopsmith, and stocks a full line of parts and accessories. Mark V's are kept in stock, and are available for immediate delivery.



# DREMEL BASIC MOTO-SHOP

- 15" CUTTING THROAT ALLOWS ROOM FOR MANEUVERING WORKPIECE
- BLADE GUARD - ALSO ACTS AS CLAMP AND HOLDS WORKPIECE TO THE CUTTING TABLE
- DIRECT DRIVE, QUICK RELEASE BLADE - DELIVERS 3450 CUTTING STROKES PER MINUTE. CAN BE MOUNTED IN 3 POSITIONS FOR CUTTING REGULAR OR LONG STOCK



\$64.95

223

- BALL BEARING MOTOR 115 V, 60 CYCLE, AC 3450 RPM BALL BEARING CONSTRUCTION FOR SMOOTH QUIET RUNNING, LONG DEPENDABLE SERVICE
- POWER TAKE-OFF FOR SANDING DISC. ALSO POWERS OTHER DREMEL ACCESSORIES NOT INCLUDED.
- ADJUSTABLE TABLE - MOVES UP AND DOWN. TILTS 45° RIGHT OR LEFT FOR BEVEL CUTS. LOCKS AT 90° ANGLE



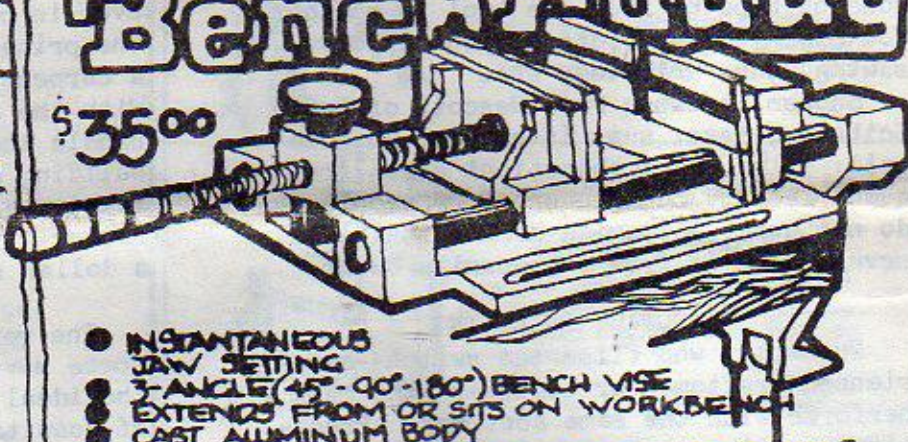
64.99

- DOUBLE INSULATED
- LIGHT WEIGHT
- VIBRATION FREE
- PERFECT BALANCE
- ONE HAND OPERATION

224

## The Bench Ruddy

\$35.00



- INSTANTANEOUS JAW SETTING
- 3-ANGLE (45°-90°-180°) BENCH VISE
- EXTENDS FROM OR SITS ON WORKBENCH
- CAST ALUMINUM BODY
- REPLACEABLE HARDENED STEEL JAWS HOLD FLAT ROUND OR TRIANGULAR WORKPIECES
- JAW WIDTH - 4"; JAW HEIGHT 1 3/8"
- JAW OPENING - 4"

225

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