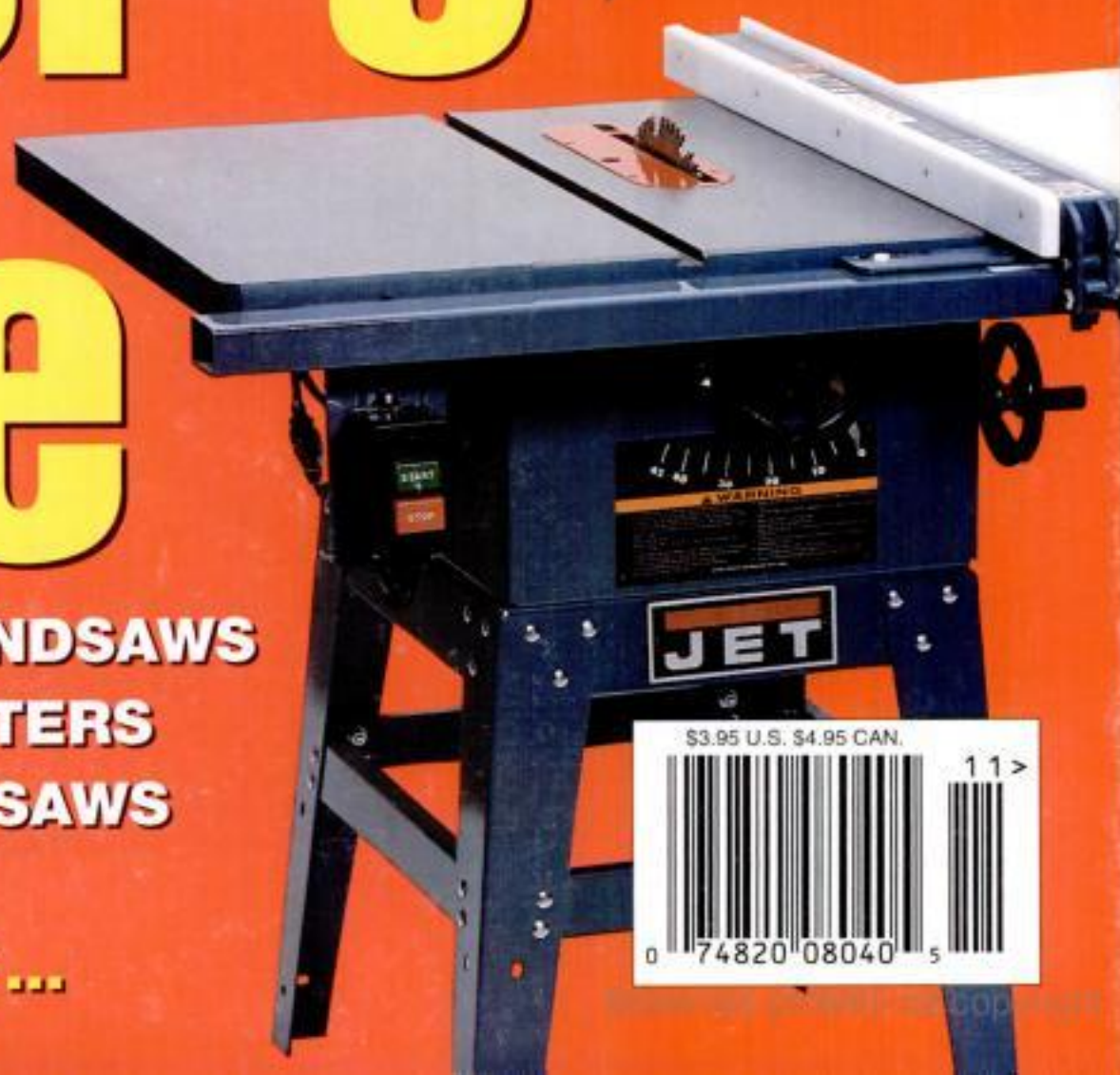


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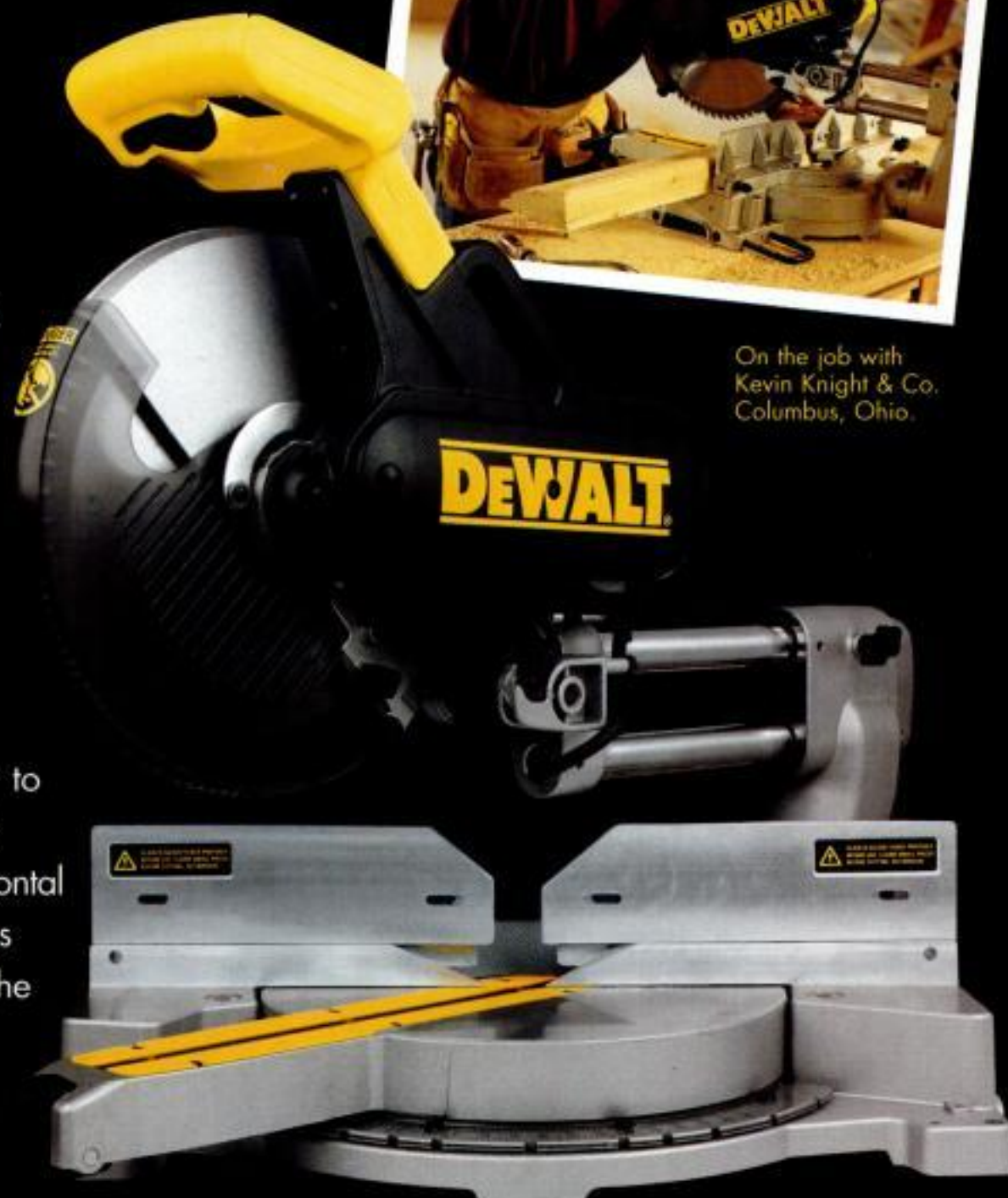


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1998 Tool Buyer's Guide

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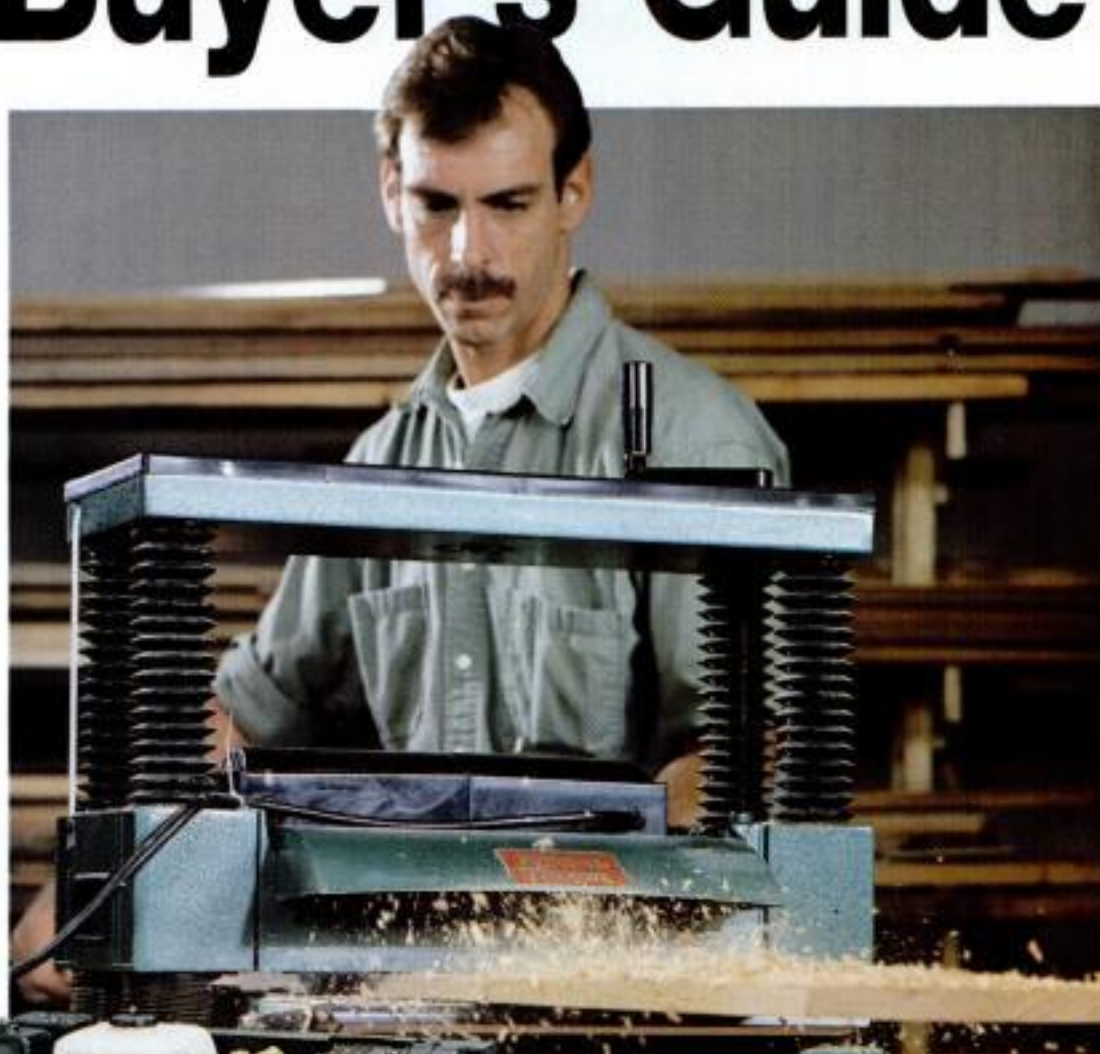
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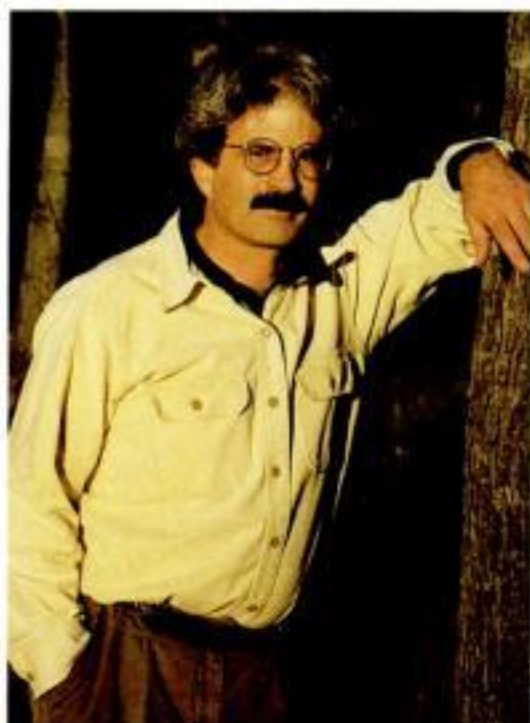
Issue No. 62, November 1997



A RODALE PRESS PUBLICATION

welcome

to AMERICAN WOODWORKER'S 1998 Tool Buyer's Guide!



Let's face it: Tools are essential for wood-working, and good tools can make your shop time more productive and more gratifying. Whether you're buying a particular type of tool for the first time or thinking of trading up to the latest model, AMERICAN WOODWORKER'S 1998 Tool Buyer's Guide will help you pick the one that's right for you. From stationary machinery to portable power tools, if it's available, you'll find it listed in our charts, along with solid information on what features and specifications to look for in a new tool or machine.

Not surprisingly, the liveliest product development over the past year has been in the cordless tool category. Manufacturers are charging hard to bring you a bigger and better variety of these powerful, battery-operated workhorses. Check out the "Cordless Revolution" that begins on page 23. You'll find plenty of innovation, and maybe even your next tool purchase.

Our Tool Buyer's Guide wouldn't be complete without some useful advice on hand tools. Mail-order catalogs are bursting with so many exotic-looking gadgets, it's hard to decide which ones you really need. In "The Best Tools for Measuring, Marking and Layout" (see page 12), we've rounded up some of the types we think every woodworker should own. Have a look, then buy the best ones you can afford.

Our staff has spared no effort to bring you the best Tool Buyer's Guide ever. We hope you enjoy it.

Ellis Valentine
Executive Editor

how to use the guide

Each of the 18 tool charts is preceded by a two-page article designed to deliver concise, meaningful information that will help you to buy wisely. Here are some tips for navigating through the articles.

■ **Read the introduction.** To help you decide whether you need the tool for your style of woodworking, each article starts with this brief overview of how the tool works, its major uses and its benefits.

■ **Check out the types.** Different types within a tool category are described in text and photos. Pick the type that suits your needs.

■ **Consider the features.** In our experience, these are the factors that make the greatest difference in the value, satisfaction and performance a tool delivers.

■ **Explore your options.** The accessories described here will enhance the abilities of your new tool or machine.

■ **For more information...** Consult a previous AW "shop test" (where applicable) for an in-depth comparison of models available at the time of the test along with our picks for Editors' Choice and Best Buy.

chart your course

Once you've read the background information, turn to the chart to find models that best suit your needs and budget. You'll find list prices and important specifications for virtually every model on the market. Models introduced within the past year are highlighted in red. Here's how to get the most from the charts:

■ **Put function first.** Price isn't everything. Choose tools that meet your minimum requirements. Larger, heavier-duty tools often can be used for small jobs, but the reverse isn't always true.

■ **Compare prices.** The list prices shown are useful for comparison, but selling prices are usually lower. Check mail-order catalogs and local retailers for the best prices and service.

■ **Budget wisely.** Don't buy more tool than you need. If you won't be using the tool very often, a less expensive model might do.

■ **Reputation counts.** Tools are long-term investments. Consider the manufacturer's reputation for quality, parts availability and service.

■ **Go to the source.** Call the manufacturers (see Sources, page 144) for more information and the names of local dealers or mail-order sources.

■ **Ask around.** Local woodworking friends or fellow guild members can help you decide on the right tools. If you have access to the America Online computer service, check out AMERICAN WOODWORKER'S online "message boards" to get the scoop from people who own the tools.

■ **Try it out.** A "hands-on" trial run at a local tool dealer, hardware store or home center is often worth the trip.

■ **Buy by mail.** Don't overlook mail-order suppliers. Most ship promptly, and in some states you can avoid sales taxes and shipping charges.

■ **Drop a hint.** Once you've decided on the tools you want, circle your choices, leave the magazine in a prominent place and count the days until Christmas. *Good luck!*

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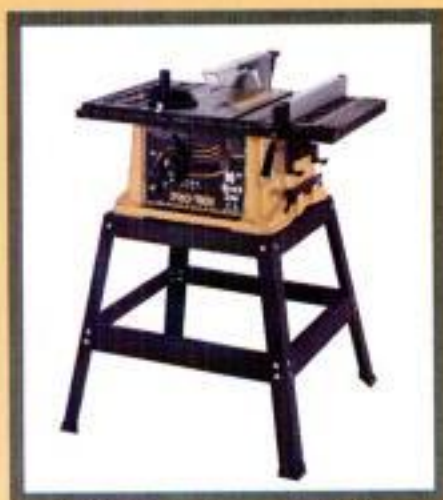
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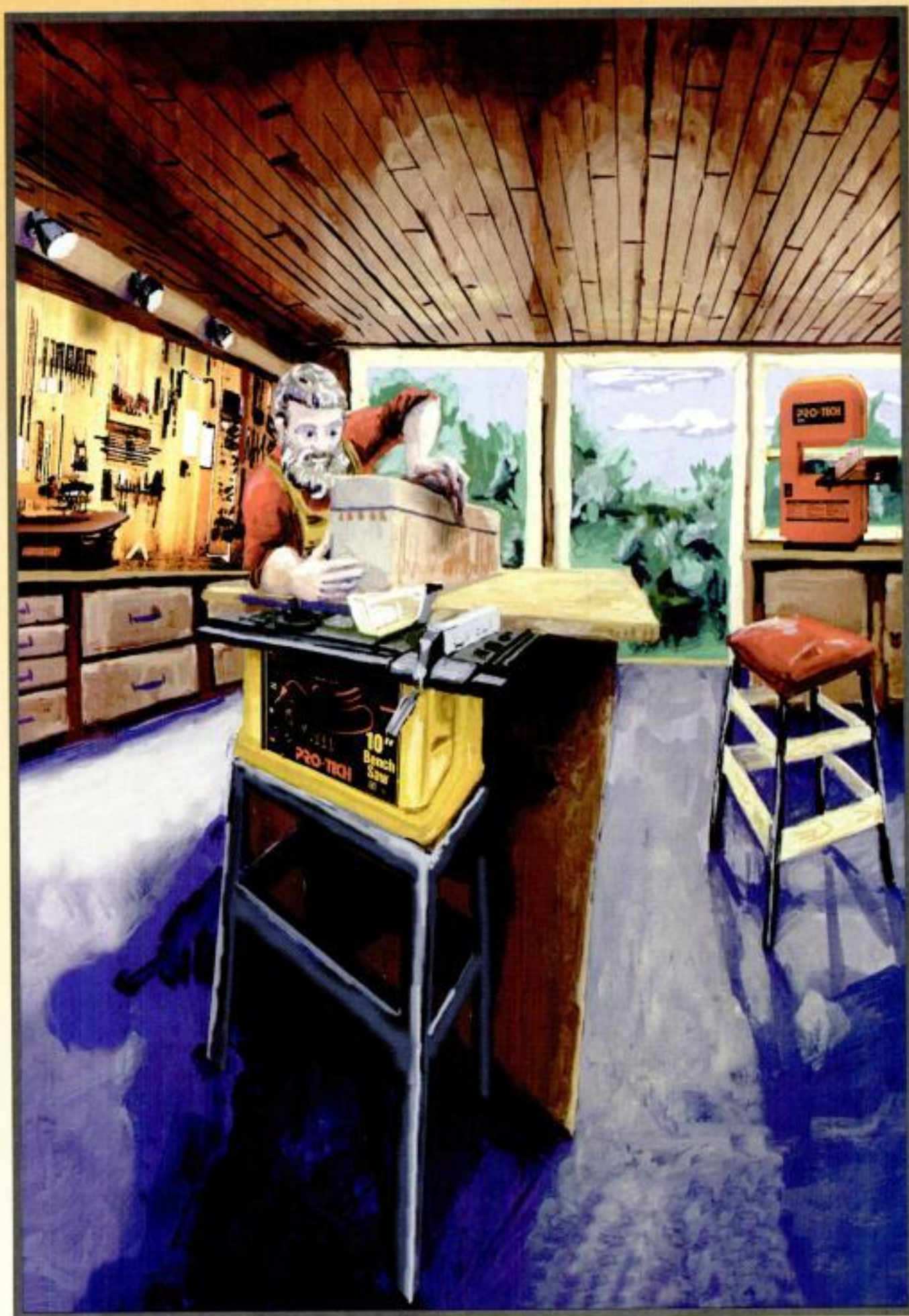
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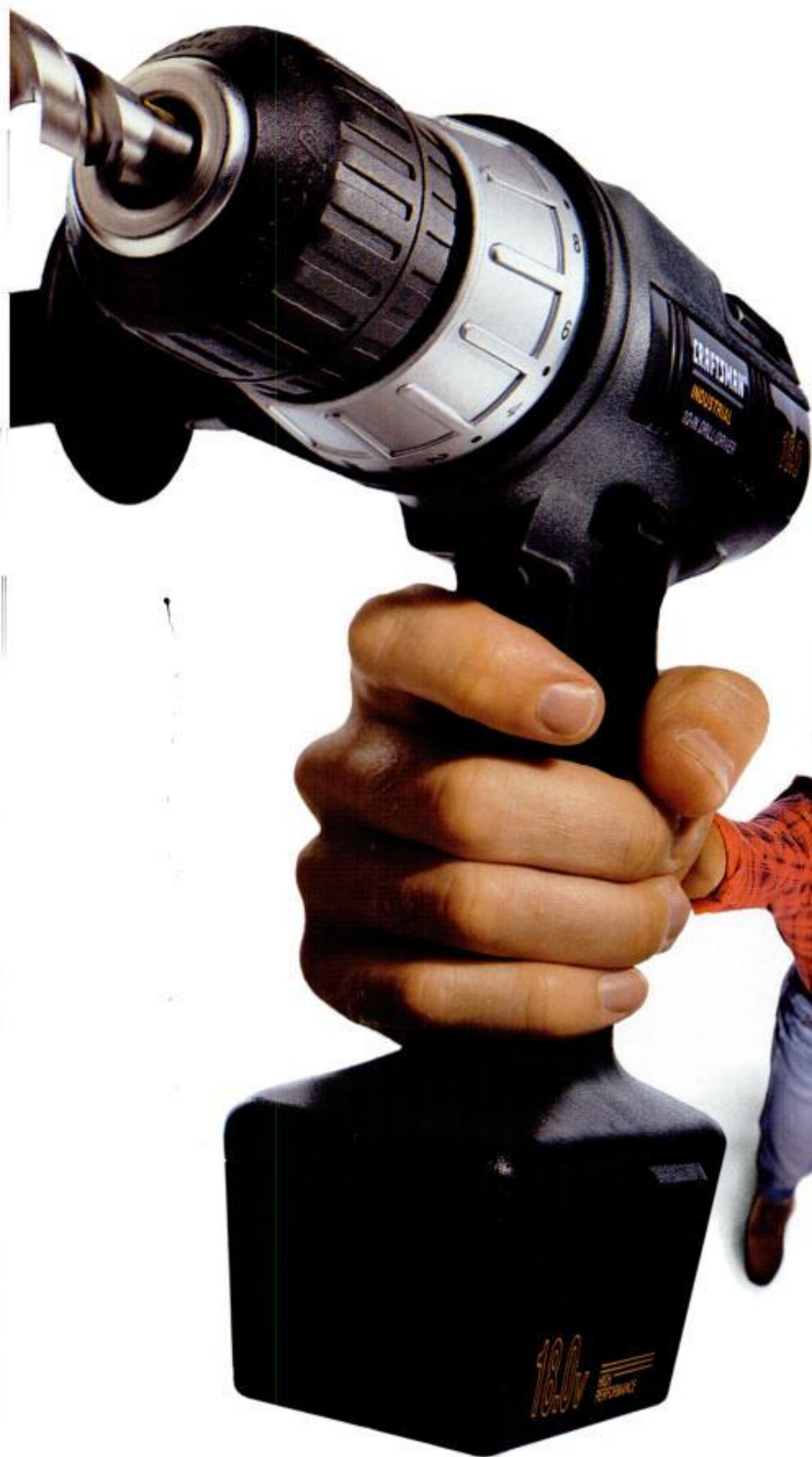
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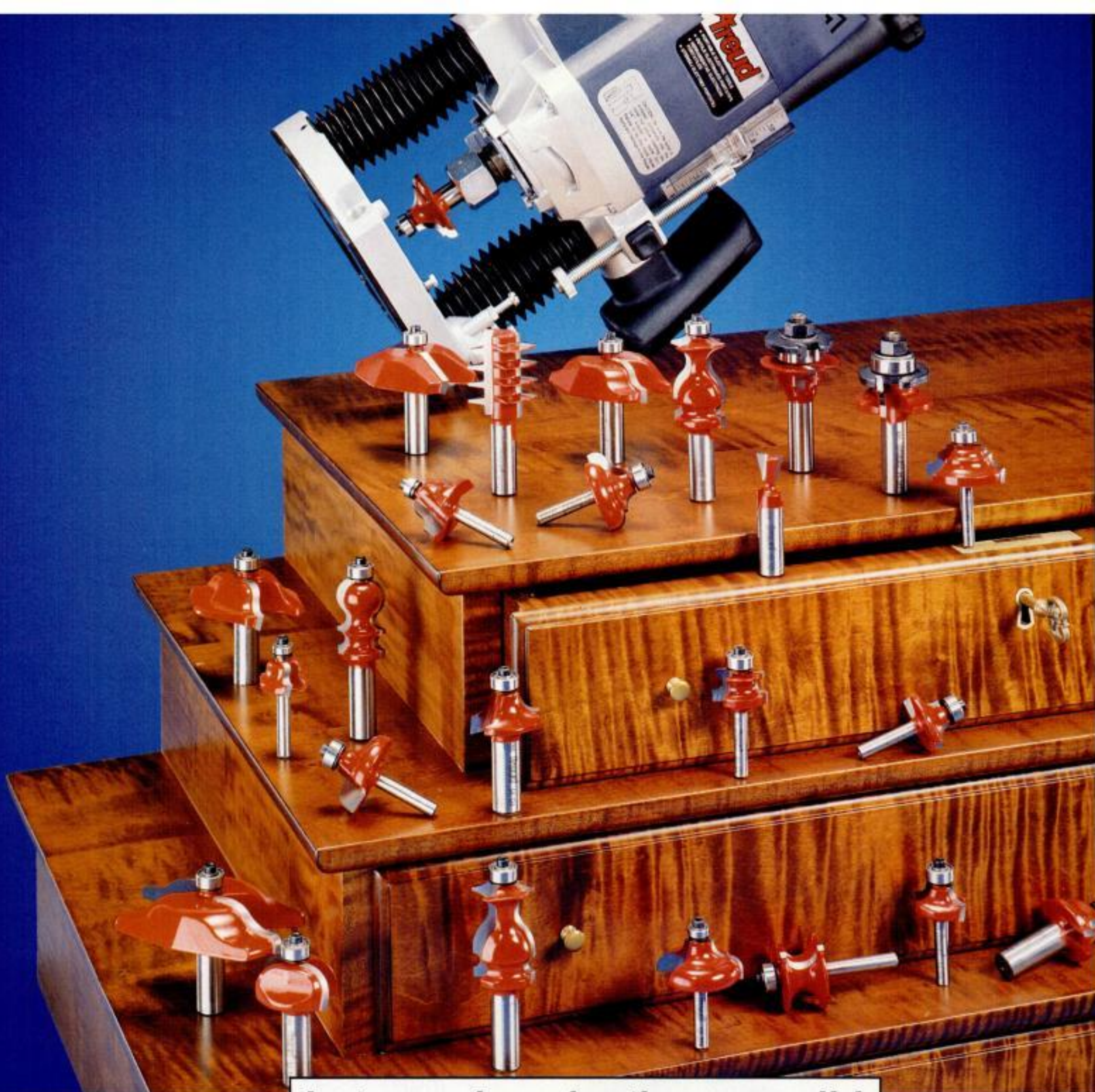
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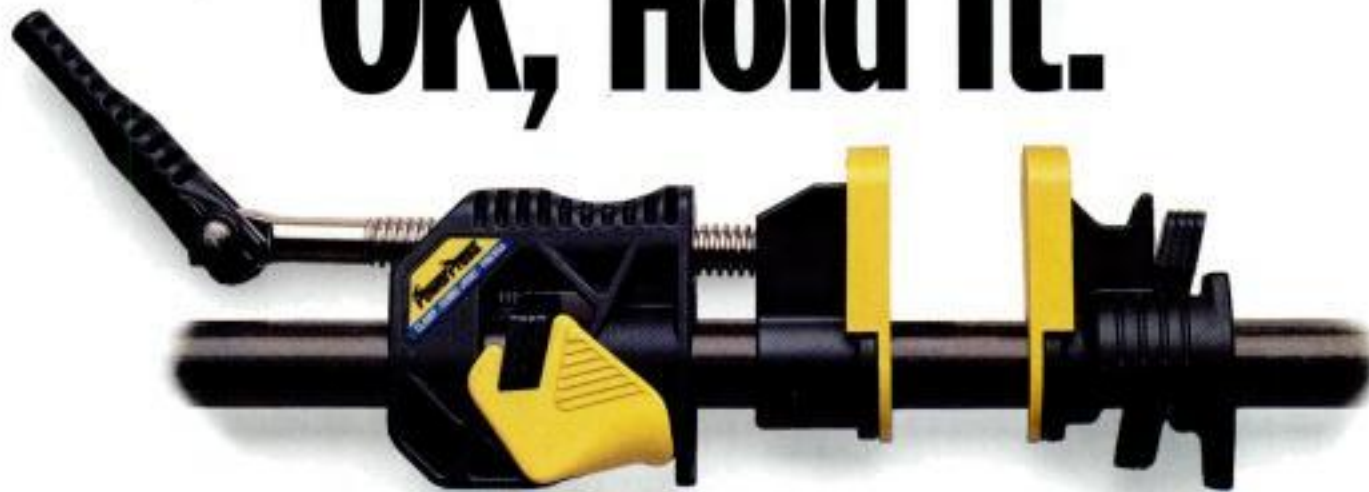
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FROM THE MAKERS OF QUICK-GRIP® BAR CLAMPS



The Best Tools for Measur

Basic gear for accurate woodworking

by Susannah Hogendorn

Two hundred years ago, furniture and cabinetmakers relied on just a handful of tools—and a lot of practical experience—for all their measuring and layout operations. Today, manufacturers seem to come up with a new gizmo every week. Which ones do you really need for good woodworking? The good news is that a handful of high-quality tools still goes a long way.

On these pages, we'll take a look at some of the most useful tools—old and new—for measuring, marking and layout. As with most tools, you can buy cheaper or more expensive versions of each, but don't skimp on accuracy. All the tools shown [here are available from mail-order suppliers. \(See Sources, page 144.\)](#) If a tool is available from more than one supplier, we've listed the supplier with the lowest price we could find at this writing. "Must-have" items are in **red**.

Measuring Tools

Most joinery is based on right angles. Before you can cut accurate joints, your stock must be flat, square and properly dimensioned. Here are the tools you'll need to gauge these important criteria.

Straightedge. Don't skimp here: This plainest of tools is indispensable for determining stock flatness. Stainless steel is strongest; a brushed surface has the least glare. A nicked or bent straightedge is useless, so store yours on a flat surface out of harm's way. **1** 31/2-ft. aluminum, \$28 from Lee Valley Tools.

2 2-ft. Starrett, brushed stainless steel, \$53 from Garrett Wade.

Winding sticks. These are used to check stock for twist or "wind." You can make them yourself. Hand-plane two wooden sticks until they're perfectly flat and square. Place the sticks across opposite ends of a board, then sight across the tops of the sticks. Remove high spots with a hand plane. **3**



ing, Marking and Layout

Bench rule. This is one of the most often-used tools in the shop. It pays to have several sizes for a variety of measuring situations. A steel rule with a brushed chrome finish is best. Center-finding rules and metric models are also available. **4** Center-finding brass rule, \$12 from *The Japan Woodworker*. **5** 6-in. stainless-steel rule with $\frac{1}{32}$ -in. end marks, \$17 from *Garrett Wade*.

Hook rule. This is a bench rule with a hook on one end. The hook hangs over one edge of the stock, ensuring accuracy. Hook rules are often scaled both directions to reference easily along both sides of a board. **6** Starrett 6-in. hook rule, \$20 from *Garrett Wade*. **7** Veritas® Hook Rule, \$13 from *Lee Valley Tools*.

Incra® Rules. These rulers have pierced holes that guide a mechanical pencil for accurate layout. The edge rule helps you mark a face and edge for sawing. The T-square rule is great for gauging a line

parallel to an edge. **8** **9** *Incra® edge and T-rules*, \$17 to \$30 from *Lee Valley*.

Tape measure. Retractable tape measures are the handiest devices for checking length and width. Wider blades will extend further without collapsing. Digital-readout tapes eliminate guesswork, but they're pricey and delicate. **10** 10-ft. right- or left-reading, \$4 from *Lee Valley Tools*. **11** 25-ft. Starrett Digitape, \$38 from *Garrett Wade*. **12** 25-ft. Centerpoint center-finding tape, \$23 from *Baklund-Hellar, Inc.* **13** Stanley 16-ft. left- and right-reading, \$19 from *Lee Valley Tools*.

Vernier or "slide" caliper. Every woodworker should own one. It's the ideal tool for accurately measuring outside and inside dimensions, as well as depth. The vernier scale on some models is accurate to 0.001 in. **14** 6-in./15-cm fractional vernier calipers, \$20 from *Lee Valley Tools*.

Dial caliper. A fancier slide caliper with an easy-to-read dial that can measure accurately to 0.001 in. **15** \$26 from *Lee Valley Tools*.

Dial indicator/thickness gauge. Use the dial indicator for accurate machine setup; use the thickness gauge to measure stock thicknesses precisely. **16** \$23 from *Lee Valley Tools*.

Depth gauge. This is the easiest, most accurate way to measure the depth of a hole, mortise or groove. **17** \$14 from *Highland Hardware*.

Bar gauge. Also known as "pinch rods," this tool is used to check the squareness of cabinets and carcasses. Set the gauge to one diagonal, then use it to check the other. Any difference means the assembly is out of square. You buy the heads, and make the rods from wood. **18** Veritas® Bar Gauge Heads, \$10 from *Lee Valley Tools*.



Layout Tools

Squares and Bevels

Once your stock is flat, square and dimensioned, you can start to lay out your joints. Squares and bevels play a crucial role in well-fitting joinery.

Try square. This old wood-and-metal standby is used to mark right angles and to check inside corners for square. Some models are adjustable. **1** 9-in. Sorby try square, \$38 from Garrett Wade. **2** 5-in. adjustable try square, \$85 from Bridge City Tool Works.

Engineer's square. Originally designed for machinists, these super-accurate squares are great for checking the squareness of planed edges, for small-scale layout work, and for squaring up your tablesaw blade. Buy at least one smaller model.

3 6-in. square, about \$8; **4** 2-in. model, about \$6; both from Lee Valley.

Veritas® Sliding Square. This takeoff on the T-square has an adjustable plastic crosspiece and an extra-wide metal rule with markings on all sides for easy reference. The diamond-shaped hole makes scribing easy and accurate.

5 \$22 from Lee Valley Tools.

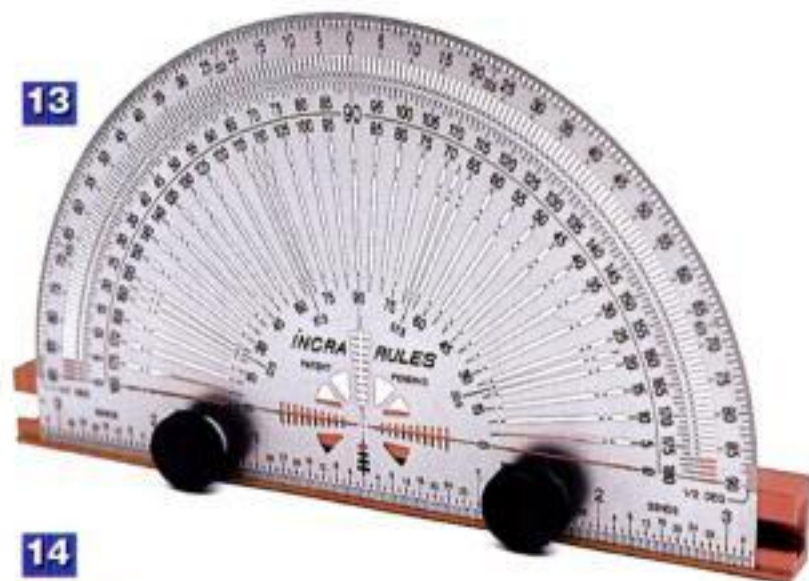
Carpenter's or framing square.

Used by carpenters for framing houses and marking rafters, this square is indispensable for checking the squareness of cabinets and furniture assemblies. The Japanese version is flexible.

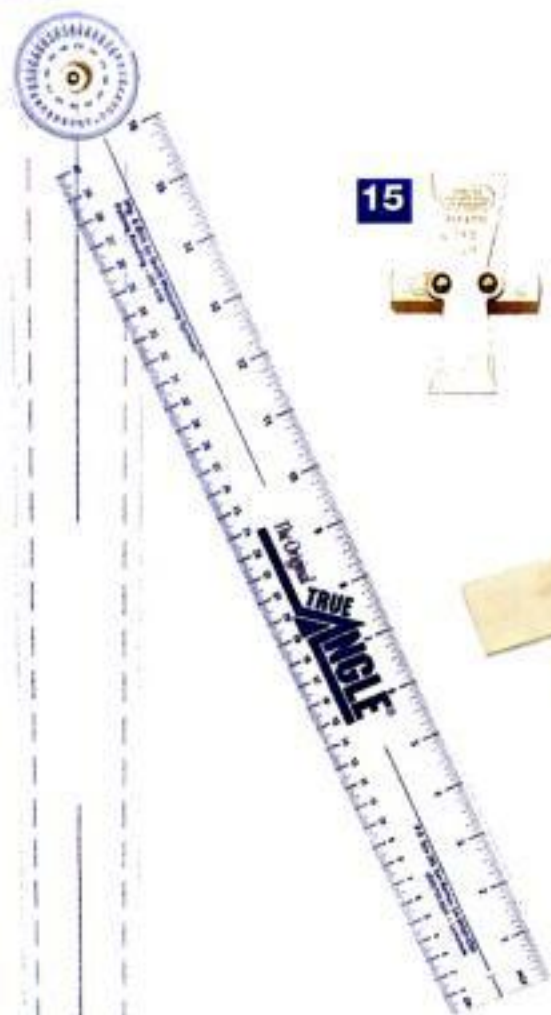
6 Western framing square, \$35 from Lee Valley Tools. **7** 12-in. by 6-in. sashi gane framing square, \$28 from The Japan Woodworker.

Miter square. On this square, the blade is angled for 45° and 135° measurements only. The Japanese type is a thin metal parallelogram that is superior for marking miters. **8** 10-in. miter square, \$23 from Highland Hardware. **9** Japanese miter square, \$10 from The Japan Woodworker.

Combination square. If you could only buy one square, this would be your best bet. The steel blade adjusts or detaches for squaring lines, gauging depths and 45° miters, and checking inside corners for square. Pricier squares are generally more accurate. Available in sizes from 4 in. to 24 in.; 12 in. is the most common. A center head mounts on the blade to help you find the center of a circle; a protractor head lets you gauge or lay out any angle. **10** 12-in. Starrett combination



14



15



17



18



24



23



22



21



20



19



square with center head and protractor head attachments, \$124 from Lee Valley.

Sliding T-bevel. This is an indispensable tool for transferring angles; it doesn't measure angles. Pivot the blade to the desired setting and tighten the thumbscrew or lever. **11** Mini T-bevel, \$9 from Garrett Wade. **12** 7³/₄-in. Stanley, \$19 from Highland Hardware.

Incra® Protractor Rule. You can use this with a T-bevel to measure and mark angles. The Incra® protractor is more accurate than the ordinary plastic type, with pierced lines and holes for precise marks. **13** \$27 from Lee Valley Tools.

Combination gauge. This tool is a bevel and a protractor in one. It doesn't slide, though, so the radius length is limited by

the pivot point. **14** 18-in. True-Angle Bevel, \$18 from Hartville Tool.

Dovetail templates. These fixed-angle devices make dovetail layout a breeze. Available in ratios of 1:5, 1:6 or 1:8 for different appearances—sometimes sold in pairs. **15** 1:5 and 1:8 brass template, \$25 from Garrett Wade. **16** Veritas® Dovetail Markers, \$10 from Lee Valley. **17** 1:6 template, \$50 from Bridge City Tool Works. **18** 1:8 template, \$25 from The Japan Woodworker.

Marking and mortise gauges. These have sharp pins for gauging lines parallel to an edge. The mortise gauge marks both sides of a mortise in one stroke. A panel gauge is for very wide work. **19** Twist-lock marking gauge, \$23 from Harris Tools. **20** Rosewood

marking/mortise gauge, \$40 from Garrett Wade.

21 32-in. panel gauge, \$65 from Harris Tools.

Cutting gauge. This tool has a blade instead of a pin, to mark across the grain without tearing wood fibers. The Japanese *kebiki* gauge has very strong, laminated steel blades. The Veritas® Wheel Marking Gauge has a circular steel cutter that won't run away with the grain. **22** Rosewood cutting gauge, \$21.50 from Garrett Wade. **23** White oak *kebiki* gauge and blades, \$21 from Hida Tool. **24** Veritas® Wheel Marking Gauge, \$19 from Lee Valley.

Layout tools continued on next page



Layout Tools

TOOLS FOR CIRCLES AND CURVES

Calipers are most often used in woodturning, to gauge bowl thicknesses and spindle diameters. But layout devices such as compasses, dividers and French curves are handy for all sorts of woodworking projects.

Outside calipers. Used for gauging outside diameters on bowls and vessels, these come in two basic designs: spring calipers, with a spring at the hinge point for fine adjustment; and wing calipers, with a fine-adjustment screw and a "wing" for the same purpose. **1** 6-in. spring type, \$14 from Garrett Wade.

Easy-reading outside calipers. Since the fulcrum is in the middle, the measurement registers the same on both ends of the tool, so you can measure diameters directly. **2** 7-in. model, \$20 from Packard Woodworks.

Inside calipers. These are for checking inside diameters. Sold in plain, spring or wing versions. Steel is best. **3** 8-in. spring, \$15 from Lee Valley.

Compass. Everyone's choice for drawing circles. Available in radii up to 16 in., and in wing or plain versions. **4** 8-in. wing compass, \$27 from Garrett Wade. **5** 16-in. compass, \$47 from Lee Valley.

Dividers. Useful for dividing a line into equal segments, as when laying out dovetails. Also good for scribing irregular edges. **6** 10-in. spring dividers, \$20 from Garrett Wade.

Trammel points. Used to draw large circles, trammel points clamp to a steel or wooden beam. One of the points can also hold a pencil. **7** Micro-adjust trammel points, \$25 from Highland Hardware. **8** Bar compass, \$17 from Craft Supplies USA.

French curves. The continuously changing curves on these drafting tools help you lay out virtually any shape. **9** Set of four, \$7 from Woodcraft.

JOBSITE LAYOUT TOOLS

Primarily used for installations, the plumb bob and spirit level are essential items in every cabinetmaker's toolbox.

Plumb bob. Dangling from a line, it points the way to dead vertical. Critical for sizing up a space for cabinets or doors. The Veritas® Flat-Bob hangs flush against a wall. **10** Veritas® Flat-Bob, \$10 from Lee Valley. **11** Brass plumb bob, \$34 from Bridge City Tool Works.

Carpenter's "spirit" level. Bubble gauges indicate level (horizontal) and plumb (vertical). Electronic versions are also sold. **12** Stabila 4-ft. level with case, \$60 from Tool Crib of the North.



Marking Tools

You'll need marking tools for various layout situations. Here are some popular ways to mark your wood.

Chalk line. Fill the reservoir with colored chalk, then pull the string tight and "snap" a straight line. This tool is good for laying out sheet goods and marking face grain for bandsawing. **1** \$8 from hardware stores and home centers.

Inkline (*sumi tsubo*). This Japanese marking line uses ink instead of chalk for thinner, sharper lines. **2** \$30 from *The Japan Woodworker*.

Pantograph. Enlarge or reduce drawings with this ancient device. To change the scale, you reposition the pivot points. **3** \$20 from *Woodcraft*.

Marking knife. Some people prefer a simple pocketknife for marking, especially across the grain. Utility knives are

also handy, since the blade is easy to replace. A Japanese marking knife is a hard, laminated steel stylus with a razor-sharp bevel for an extremely accurate line.

Sold in right-handed, left-handed and double-beveled versions to suit your preference. A striking knife has a double bevel and comes to a point in the center for easy striking across the grain.

4 Japanese marking knives, \$17 to \$19 from *Woodcraft*. **5** Striking knife, \$27 from *Lee Valley*.

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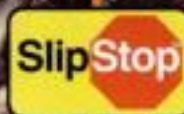
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Portable heavyweights. Cordless tools, like this new 5³/₈-in. circular saw from Panasonic, are changing the way woodworkers work, on the job and in the shop.

CORDLESS

Hot developments in battery-powered tools

REVOLUTION!

Each year, more and more power tools are shedding their cords for the go-anywhere convenience of battery power. The cordless trend started about 36 years ago with the cordless screwdriver and has blossomed into the fastest-growing segment of the tool industry, with annual sales in the billions of dollars.

The newest tools to join the cordless family include jigsaws, detail sanders, reciprocating saws, and even a chainsaw. But there have also been innovative new entries in existing categories—notably cordless drills—and in the battery technology that makes these tools possible.

The most powerful contenders in the cordless-power race boast hefty 18-volt batteries, along

with beefed-up motor windings and switches to handle the increased current.

More power means more torque to drive larger bits, sink bigger screws or cut through thick wood faster than lower-voltage models. Batteries are also running longer and recharging faster these days, thanks to higher amp-hr. ratings and smarter chargers.

Other innovations are making cordless tools more user-friendly. Padded handles, easier bit changing, replaceable brushes and adjustable balance are just some of the ways cordless tools are improving. Turn the page for a look at some of the new and intriguing developments in this explosive field.

CORDLESS REVOLUTION!

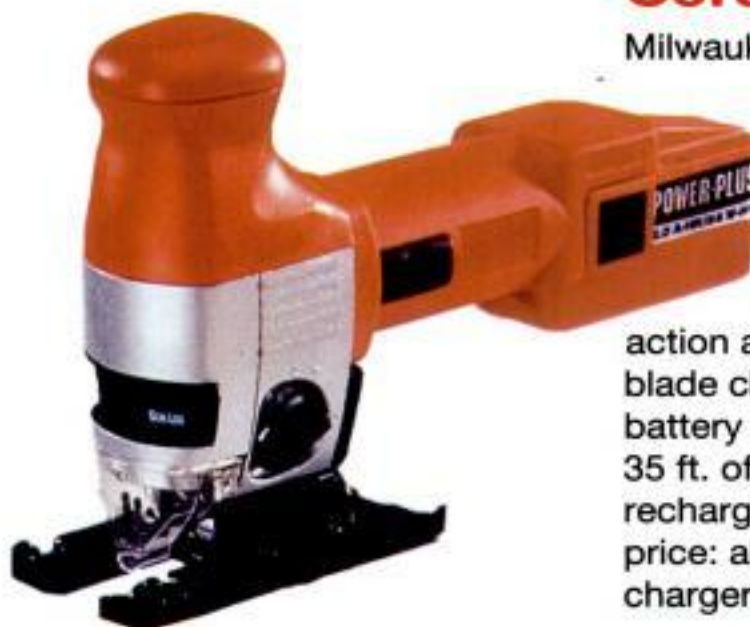


Sand in Close Quarters

Fein's original "triangle" sander first popularized these mini-sanders, which are great for detail sanding and polishing in close quarters. Now Fein has introduced the Msx 315 cordless version, built for heavy-duty professional use. You get the 2.4-lb. tool, 9.6-volt battery, charger and case for \$320.

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Hitachi's EB12BH Belt Pack Battery Holder puts the weight of your battery on your belt, not in your hand. The belt pack holds two batteries that connect to the drill with a 56-in.-long cord. Using two batteries doubles the drill's run time. Street price: \$90. The battery pack also comes standard with Hitachi's DS13E22B drill for about \$199.



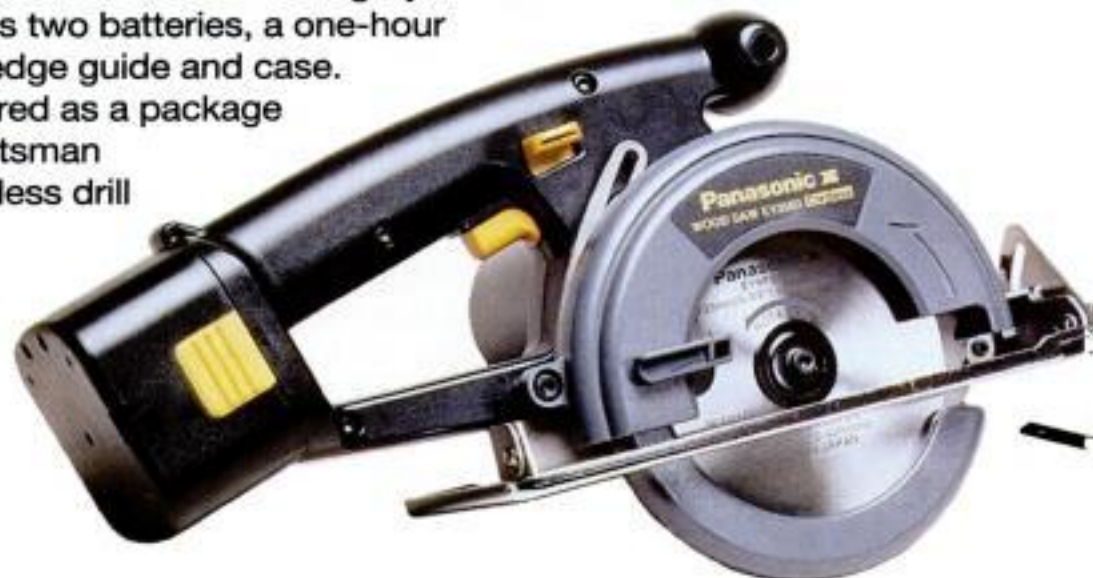
Cordless Curves

Milwaukee's model 6267-21 jigsaw has all the power of a corded version, along with features designed for convenience and top performance. The new saw has 4-position orbital action and Quik-Lok™ toolless blade changing. The 2-amp-hr. battery can power the saw through 35 ft. of 3/4-in. plywood before recharging is necessary. Street price: about \$300, including charger and case.



Trim Saws

Cordless trim saws go where bulky corded circular saws can't. This year, we counted two new models that have followed DeWalt's lead into this category. Panasonic's model EY3503FQWKW is powered by a 12-volt battery and will cut stock up to 1 13/16-in. thick. The saw kit includes a 5 3/8 -in. carbide blade, two 2-amp-hr. batteries, a 15-minute charger and a carrying case. Street price: \$269. Craftsman's #27181 cordless trim saw is the lightest saw in this category. Its \$249 price includes two batteries, a one-hour charger, an edge guide and case. It is also offered as a package with the Craftsman #27199 cordless drill for \$299.





Reciprocating Saws

Long revered for their all-around jobsite versatility, reciprocating saws have joined the cordless ranks. DeWalt's DW938K reciprocating saw sports a 2-amp-hour battery and an electric brake. Street price: \$300. Milwaukee's 6516-21 features Quik-Lok blade changing and a 2-amp-hour battery. Street price: about \$279.



CORDLESS DRILLS

Major Muscle

If you need long-lasting, heavy-duty performance, 18-volt cordless drills are the way to go. Wagner's WB180K comes with one battery and a three-hour charger for about \$150. Ryobi's CTH1802K Jobsite Series cordless drill includes two batteries, a one-hour charger and case for around \$200. Black & Decker's PS3700K-2 costs about \$149 and includes two batteries and a three-hour charger. The Craftsman #27199 features a 1/2-in. keyless chuck, two batteries, a one-hour charger and case for \$239. 18-volt drills from Milwaukee will be available late in 1997.

Also noteworthy: a new generation of nickel metal hydride batteries from Makita. They offer longer run times and more low-end torque than nickel cadmium versions. Makita will have them in their cordless drills by the end of 1997.

Reversible Battery

On Milwaukee's new Power Plus line of cordless drills, you can change the balance point by mounting the battery forward or backward. Mount it forward for drilling or screwing horizontally, backward for vertical work like running deck screws or working overhead. Prices vary with models. [\(See chart, page 70.\)](#)

Easy Maintenance

With Makita's new cordless drills, you can replace the motor's brushes without disassembling the drill. Makita makes it easy to replace brushes—you simply remove a screw-in cover plate, remove the old brushes and pop in a new set.



Wagner WB180K



Craftsman #27199



Ryobi CTH1802K



Milwaukee 0511-21
with reversible battery



Makita 6233DWAE
with replaceable brushes

The Veritas® Router Table System

More Innovative Thinking From Lee Valley & Veritas®

Veritas® Tools has established itself around the world as an innovator in tool design.

The Router Table System featured on these 4 pages exemplifies our innovative thinking and commitment to design excellence.

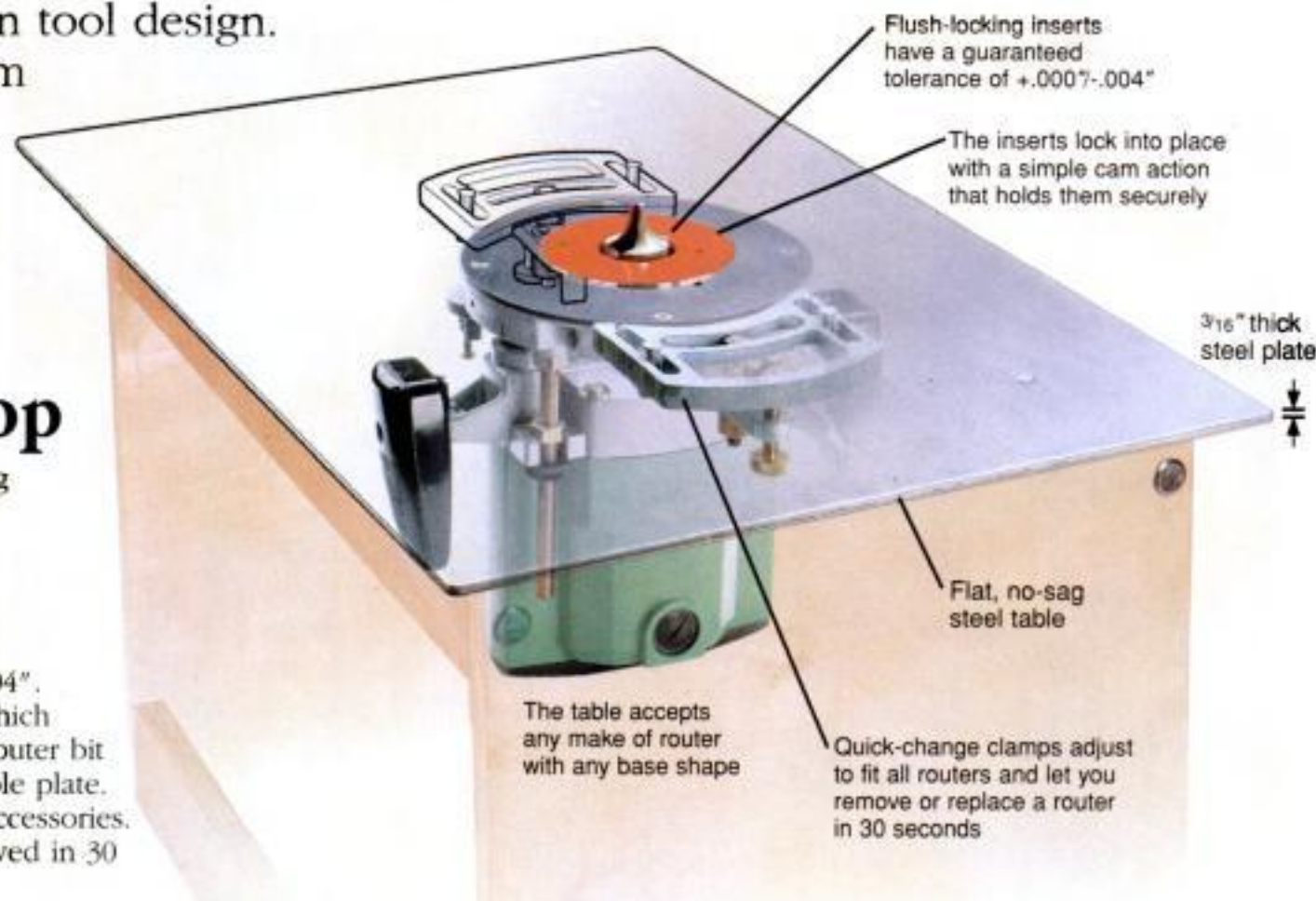
Router Table Top

1. It is flat and guaranteed not to sag under router weight.
2. It has a clean surface, not one riddled with holes.
3. The cam-lock insert system is the best made. Inserts are guaranteed to meet a tolerance of $+.000"/- .004"$.
4. The steel top is only $3/16"$ thick, which means you get full use of every router bit without removing your router's sole plate. You can also use magnet-based accessories.
5. A router can be installed or removed in 30 seconds or less.
6. The tilt-top design makes bit adjustment easy.
7. The $3\frac{5}{8}"$ opening lets you use panel-raising bits.
8. At $16" \times 24"$, it is a generous size.
9. The router table can be used in a Workmate® or an end vise without the need of a base.

Veritas® Router Table Top & Accessories

Our Router Table Top includes the following: a $16" \times 24"$ steel table top, 1 alignment pin, 2 pivot posts, 2 inserts (with $1/2"$ and $1\frac{1}{2}"$ holes), 2 router clamp assemblies, hardware, and full instructions for building a stand if you choose not to buy it with our stand (shown on page 4). Available separately, template inserts (inside dia. stated below, outside dia. is $1/8"$ larger) are used as guide bushings for pattern tracing; zero-clearance inserts can be drilled to fit any bit or a bit can be plunged through them. Our $1\frac{3}{4}"$ counterbore insert accepts our brass template guides and ring nut. Patent pending.

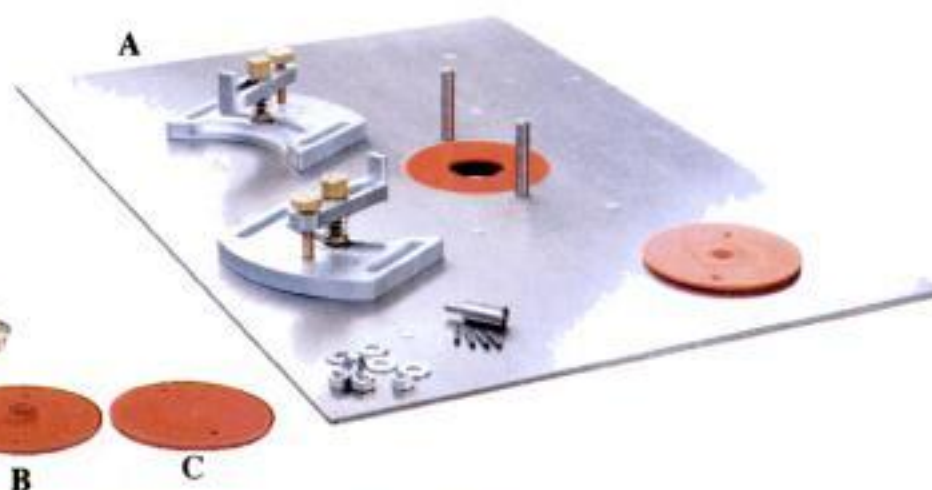
- | | |
|--|----------|
| A. AW1001 Router Table Top | \$139.00 |
| AW1002 Router Table Top Stand | \$ 45.00 |
| AW1003 Router Table Top & Stand | \$169.00 |
| B. AW1004 $9/32"$ Template Insert, ea. | \$ 3.50 |
| AW1005 $1/2"$ Template Insert, ea. | \$ 3.50 |
| AW1006 $3/4"$ Template Insert, ea. | \$ 3.50 |
| C. AW1007 Zero-Clearance Insert, ea. | \$ 3.50 |
| D. AW1008 $1\frac{3}{4}"$ Counterbore Insert | \$ 3.50 |



A router can be installed or removed in 30 seconds or less.



Once your router is clamped, you can easily prop up or flip the plate to adjust bits as shown.



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Veritas® Router Table Fence

A good router table fence should be straight, rigid, easily adjusted, and allow for good chip escape. Ours does all that and more. The nesting extrusions are the heart of the system. The bottom extrusion is split for adjustable openings from 0" to 8". The top one is a single, 28" long piece to maintain rigidity.

There are three primary advantages of a split bottom rail with wooden sub-fences.

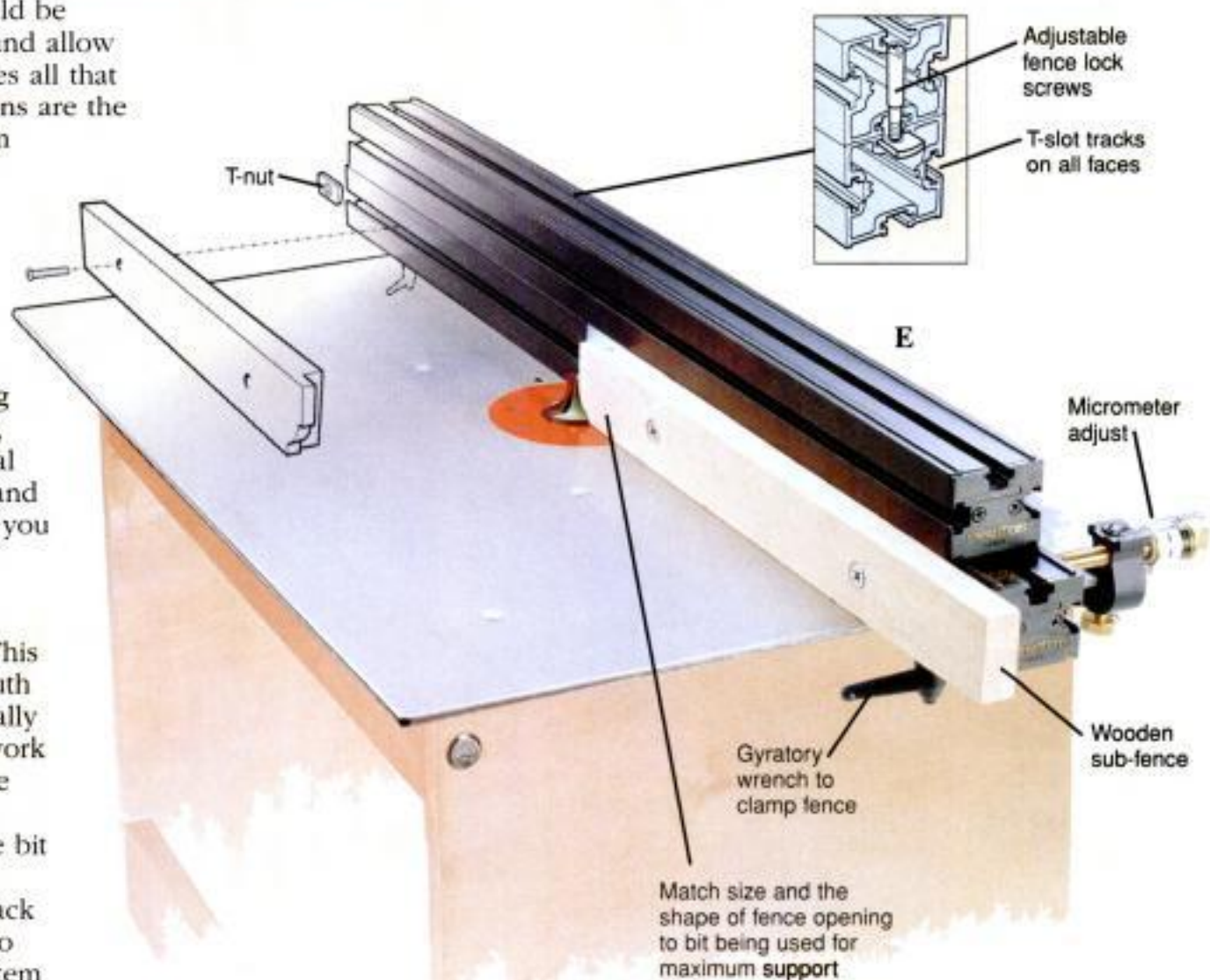
1. It lets you match the opening to the size of bit being used, giving you maximum material support on both the infeed and outfeed. This not only gives you better cuts, but substantially increases safety.
2. It lets you form-fit the sub-fences to any shape of bit. This is much like closing the mouth of a hand plane; it substantially limits tear-out because the work is supported right next to the cutter.
3. The form-fit fence makes the bit act like a pump, forcing shavings and dust straight back through the opening and into whatever chip-collection system you have. You almost have to see this last feature to believe it, but there is no doubt that it works amazingly well.

Gyratory wrenches at both ends lock the fence to the table; a half turn releases them for fence removal or adjustment. The 2" wide fence base gives excellent stability and the 3^{3/8}" height gives you an ample reference face for vertical passes of material.

The micro-adjust reduces set-up time to a minimum. You set your bit at approximately the right width of cut, make a test pass, measure the error and then, using the micro-adjust, move the fence exactly the amount needed to fully correct the error. It is accurate to .001".

Veritas® Router Table Fence

The fence comes with all necessary hardware and a screwdriver, plus two wooden sub-fences and the micro-adjust. Because the T-slots on all faces of the fence are ideal for a range of stops and



Micro-adjust system reduces set-up time to a minimum.



Adjustable sub-fences let you minimize tear-out and maximize support while controlling chips and dust.

guides, we also throw in extra 1/4-20 T-nuts for your convenience. Although designed to fit the Veritas® Table Top, the clamps will fit any router table up to 24" wide and 1/4" thick. Patent pending.

E. AW1010 Router Fence \$125.00
AW1011 Extra Sub-Fence, pr. \$ 5.95



Fence shown mounted on Veritas® Router Table Top (not included).



Veritas® Work Hold-Down

This simple, easy-to-use system keeps your work snugly pressed against both the fence and the table, ensuring safe, accurate cuts; there is no need to have your fingers near the bit at any time. The springs can be set at any pressure as well as a wide range of heights and widths, to handle stock from 1/8" square to 2x4s. It keys into the top slot in the Veritas Router Table Fence and can be set anywhere along the length.

F. AW1016 Work Hold-Down

\$24.95

Veritas® Right Angle Sled

Main Features

1. Elimination of Backing Material

The split bottom extrusion of the sled arm allows you to use an end-



grain backing block to eliminate tear out on through cuts. End grain is much more durable and effective in this use than side grain.

2. Finger Joints/Box Joints

The sled comes with integral fingers for making box joints $\frac{1}{8}$ " wide as well as any width from $\frac{1}{4}$ " to $\frac{3}{4}$ ".



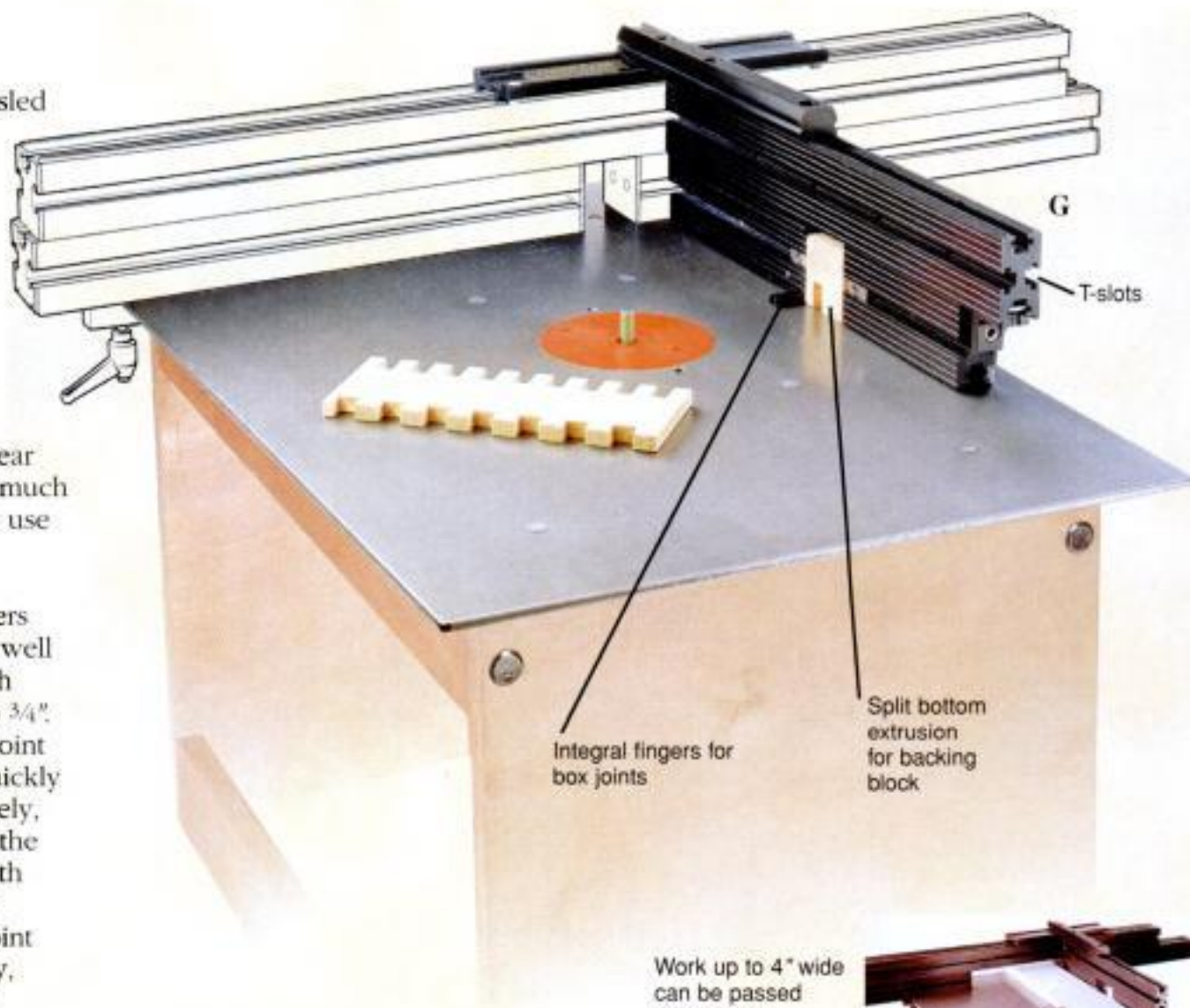
The finger joint stops set quickly and accurately, eliminating the need for test fits. Made for use with the backing block, it is by far the fastest and most accurate finger joint system for a router available today, and gives results free of tear-outs.

3. Versatile Split Arm

The split in the lower extrusion of the arm gives it many of the same advantages as the split main fence. Both accept sub-fences and both have adjustable gaps. The extrusion slots (which are the same height as the main fence) use the same T-nuts as the main fence, letting you interchange accessories. The 14" long arm gives ample support to virtually any work, but can readily be extended with a sub-fence for unusual pieces. The machined slot-joint between the arm and fence guarantees a rigid 90°.

4. End Routing

Support work for end routing (e.g., rail and stile work) is particularly easy since the arm can be adjusted to leave up to a 2" gap next to the fence.



5. Half lap joints, dovetails and dados.

For making half lap joints, grooves for sliding dovetails, or dados generally, the main fence extrusions can be separated and work passed through the slot. Work up to 4" wide can be dadoed this way. For wider work (up to 8"), the sled is locked to the fence and, using a pair of position stops (not included) at either end as guides, the entire main fence with locked arm can be slid back and forth. Either method ensures that work is always under full control and cannot be spoiled by a crooked cut.

The sled is an extremely versatile accessory, giving you a foolproof finger joint system, complete control of end routing, and a simple, accurate way to dado work up to 8" wide.

Work up to 4" wide can be passed through slot.



For wider work (up to 8"), the sled is locked to the fence and the combined fence and sled are slid back and forth using position stops as guides.



G. AW1020 Right Angle Sled

\$65.00



Veritas® Solid Brass Position Stops

1" high x $\frac{3}{4}$ " dia.

H. AW1013 Position Stops, pr.

\$8.50

Veritas® Magnetic Dust Chute

The chute has a $2\frac{1}{2}$ " fitting and a $1\frac{1}{4}$ " reducer to fit most shop vacs. The $2\frac{1}{2}$ " hose and adapter mount on 4" fittings.

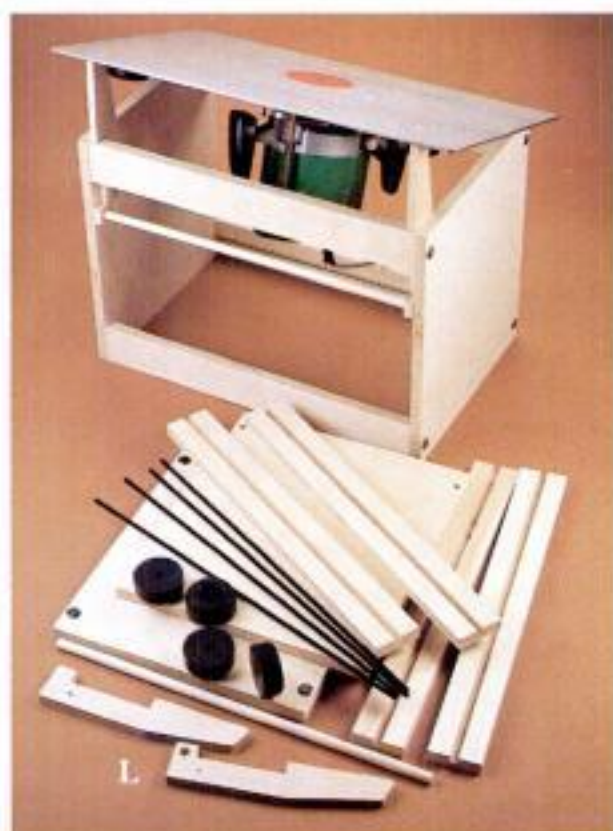
J. AW1014 Dust Chute and Reducer

\$19.95

K. AW1015 80" Hose & 4" Adapter

\$11.50





Veritas® Router Table Stand

Made from 3/4" Baltic birch plywood and steel truss rods, this is a solid stand. It has a joined double-prop system to hold the table top in a stable position while you change or adjust bits. It comes with the necessary fittings to match your steel top to it. Some minor assembly required. 15" high by 21 1/2" long by 13 5/8" deep.

L. AW1002 Router Table Stand \$45.00

Other Veritas® Router Table Accessories (not shown)

AW1012 Set of 3 Jointing Shims \$5.75

AW1017 Fence-Mount Safety Shield \$7.75

AW1018 Table-Mount Safety Shield \$6.95

Veritas® Base Plate / Table Insert

Until now any router table insert had to be big enough to let the router and handles clear the sides of the insert hole as the whole thing was lowered into the table. Our insert is much smaller because it can be inserted from below the table, a process so revolutionary we have applied for a patent on it. Because it is only 9" in diameter and 1/4" thick, the insert can be permanently mounted to your router for use as a base plate for freehand routing as well as for use in a router table. There are many advantages to this new system.

1. Your router can be used free hand or in a table with no change of base.

Accessories for Router Tables



2. The base is perfectly centered on the bit and, therefore, in any guide bushing, making all of your routing more accurate.
3. The small base virtually eliminates sagging.
4. You can install or remove a router from the router table in seconds, with no need to insert or remove a single screw, and without having to thread a cord anywhere first.
5. You have a clean router base/insert without the "Swiss cheese" patterns that can trap chips or catch your work.
6. A simple anti-rotation device holds the plate firmly in the table top.

Unlike others, our phenolic base plate is not predrilled. With the included hardware (positioning template, trammel bar, alignment pin, 82° countersink bit, and centering disc), you drill the base plate to match your router base. This is easy; but if you make an error, we will give you another base plate free of charge. Instructions for making a matching table top are also included. In minutes you can rout both the hole and support ledge.

The 1 1/2" dia. center hole is counter-bored to accept our template guides. The table insert reduces the size of the aperture to 3/4" when not using a template guide (ring nut required for use). Patent pending.

M. AW1040 Veritas® Base Plate \$21.95

N. AW1038 Table Insert, 3/4" \$5.95

AW1030 Ring Nut \$3.95



Brass Template Guides

Template guides are used with our 1 3/4" counterbore insert (or our router base plate, AW1040) to follow the outline of a pattern. The router bit protrudes through the hole in the center of the guide with the side of the guide bearing against the edge of the template. These guides are made of solid brass. They are attached using the threaded brass ring nut. Only one ring nut is necessary, regardless of the number of template guides you purchase. Available individually or as a set containing four guides and one ring nut. The size given is the exterior diameter followed by the diameter of the largest bit the guide can accommodate. The 7/16" guide fits most dovetail jigs and will accept a 1/2" dovetail bit for this application.

O. AW1030	Ring Nut*	\$ 3.95
P. AW1031	3/8" x 1/4" Guide*	\$ 5.95
Q. AW1032	7/16" x 5/16" Guide*	\$ 5.95
R. AW1033	5/8" x 1/2" Guide*	\$ 5.95
S. AW1034	3/4" x 5/8" Guide	\$ 5.95
T. AW1035	1" x 7/8" Guide*	\$ 5.95
U. AW1036	1 1/2" x 1 3/8" Guide	\$ 5.95
AW1037	5-Pc. Template Set*	\$24.95

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1584VSW	1584VS JIG SAW W/CASE & 10 BLADES	159		
1587VS	TOP HANDLE JIG SAW, VAR SP	142		
1587VSW	1587VS JIG SAW W/CASE & 10 BLADES	159		
1613EVS	2 HP VAR SP PLUNGE ROUTER	198		
1613EYSK	1613EVS 2WRA1061 DELUXE EDGE GUIDE	208		
3310K	12V CORDS W/ HANDLE W/2 BAT, CS & CHRGT	174		
3610K	14.4V CORDS DRILL KIT W/2 BATTERIES	194		
3725DVS	5" DUSTLESS VS RANDOM ORBIT SANDER	146		
3727DVS	6" DUSTLESS VS RANDOM ORBIT SANDER	154		
3915	10" SLIDE COMPOUND MITER SAW	578		

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DA250A	15 GA. ANGLE FINISH NAILER KIT 1 1/4" - 2 1/2"	244	698	SHAPER TABLE	134
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330	SPEED BLOCK FINISHING SANDER	62	7336	6" RANDOM ORBIT SANDER	136
332	QUIKSAND 5" RNDM ORB W/STKIT PAD	56	7518	3 1/4 HP FIXED BASE ROUTER-5 SPEED	274
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334	QUIKSAND W/STKIT, DUSTLESS	64	7800	DRYWALL SANDER	334
340	1/4 SHT FN SANDER W/DUST PU	49	7810	POWER TOOL TRIGGERED WET/DRY VAC	258
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362	4" X 24" BELT SANDER W/DUST BAG	218	9830	9.6V CORDLESS DRILL KIT W/2 BATT & CASE	146
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Panasonic

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DW621	2 HP VS DUSTLESS PLUNGE ROUTER	218		
DW625	3 HP HVY DTY PLUNGE RTR, VAR SP	278		
DW682K	BISCUIT JOINER KIT	199		
DW936K	18V CORDLS CIRCULAR SAW KIT	248		
DW972K2	NEW 12V CORDLS KIT/W BATT & CS	182		
DW972KS2	12V CORDLS DRILL & CIRC SAW KIT	274		
DW991K2	14.4V CORDLESS DRILL KIT W/2 BAT	218		
DW991KS2	14.4V CORDLS DRILL & CIRC SAW KIT	348		
DW995K	18V 1/2" DRILL W/BATT, CHGR & CS	228		

RYOBI				
AP12	12" PORTABLE PLANER	368		
DC500K	DC500 KIT W/CS & 5 PC CHISEL SET	62		
DS2000K	2 SP DETAIL SANDR W/CS & 12 PC AST	62		
HT20VSK	MULTIROTARY TOOL W/CS & 101 PC AST	55		
DEJ50	DETAIL BISCUIT JOINER	69		

freud				
JS100	BISCUIT JOINER	167		
FT2000E	3 1/4 hp VS PLUNGEROUTER	204		
LM72M010	10" X 24T FLAT TOP RIP BLADE	36		
LU84M010	10" X 50T ATB COMBO BLADE	40		
LU85M010	10" X 80 T ATB FOR MIRROR FINISH	56		
SD306	8" SAFETY DADO WITH CASE	116		
SD508	NEW 8" SUPER DADO SET	167		

CIRCLE NO. 40 ON PRODUCT INFORMATION FORM

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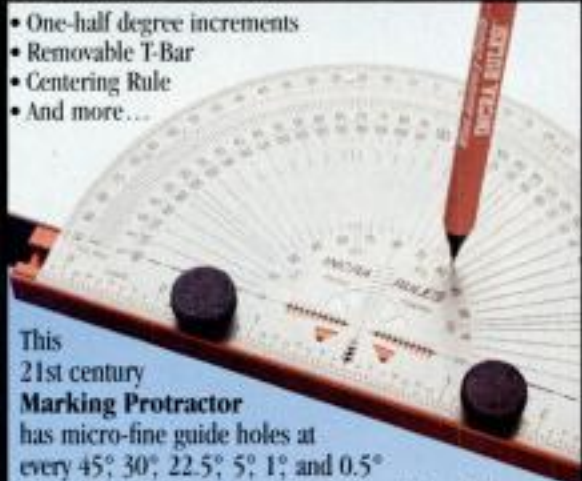
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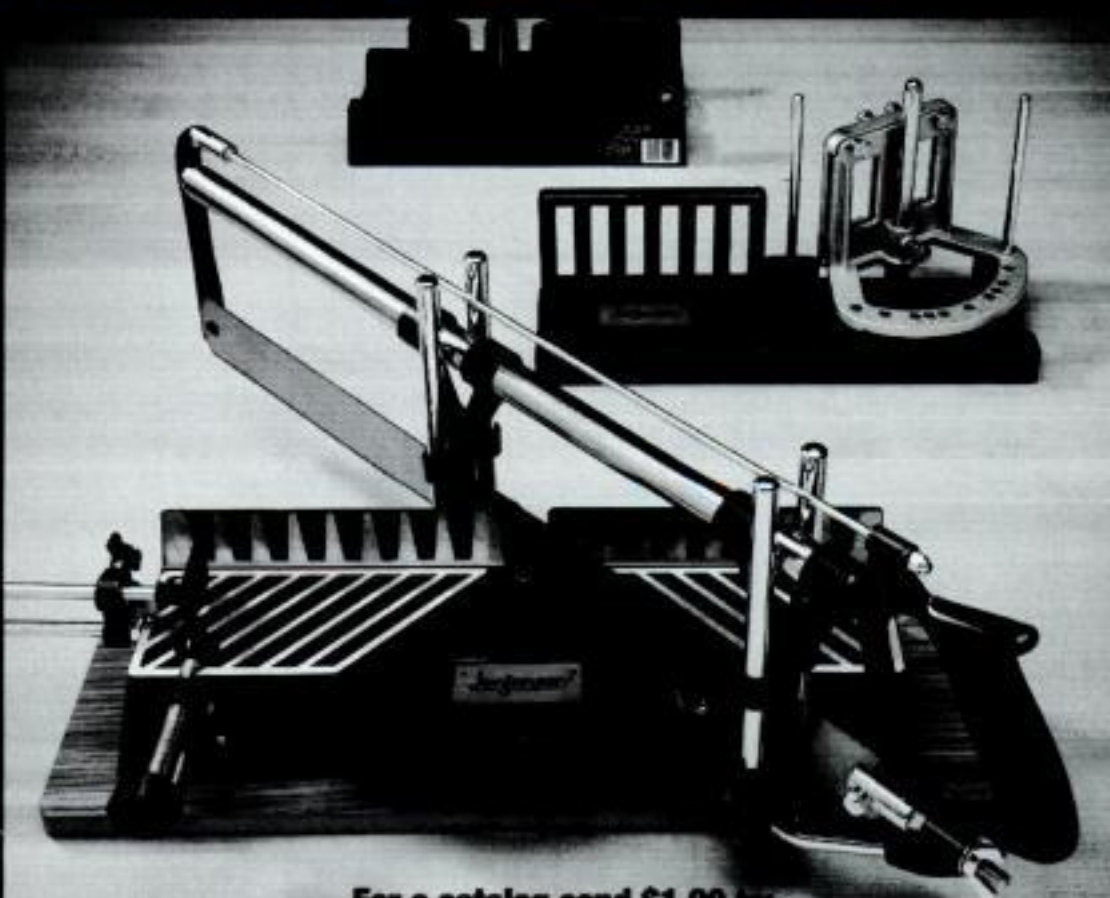
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CIRCLE NO. 93 ON PRODUCT INFORMATION FORM

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CIRCLE NO. 161 ON PRODUCT INFORMATION FORM

air compressors



Pressing air into service.
An air compressor will power tools ranging from simple air nozzles to spray-finishing guns, nail guns and sanders.

You really start to appreciate a compressor when you couple it with the wide range of pneumatic tools available today—from routers and nail guns to sanders, spray-finishing equipment and even venturi vacuum pumps.

Models range in size from small $\frac{3}{4}$ -HP units to 20-HP industrial models. $\frac{3}{4}$ - or 1-HP units provide enough power for touch-up finish spraying or light-duty nailing. Most air-powered sanders, drills and routers require at least a 3-HP model; a 5-HP unit is better yet.

Gas-powered compressors are available for remote, on-site work, but here we'll focus on electric models, which are more appropriate for the shop.

2 types of air compr

OIL-LUBRICATED MODELS

These models are quieter than oil-less versions, thanks to the crankcase oil that lubricates the pistons that pump the air.

Oil-lubricated models require oil and filter changes, but they generally last much longer than oil-less models before requiring a pump rebuild.

For spray finishing, it's wise to install an in-line oil filter, which prevents contamination of the finish.



features to consider

Power

With air compressors, horsepower isn't as important as cfm (cubic feet per minute), which tells you how great a volume of air can be delivered at a stated pressure—usually 90 psi (lbs. per sq. in.).

Before buying a compressor, find out the cfm requirements of the tools you plan to use. Here's a rough guideline: **Nailers** use from 2 to 6 cfm at 90 psi.

Sanders, drills and routers use from 7 to 25 cfm, depending on the model and whether it's under continuous use. **Commercial-duty spray guns** need 7 or 8 cfm at about 40 psi—roughly the equivalent of 6 or 7 cfm at 90 psi.

Tank size

Compressor tank sizes are rated in gallons. The larger the tank, the less often the motor has to restart in order to replace used air. This reduces wear on the pump, which automatically stops when maximum tank pressure is reached during compressor use.

Tank size. A larger tank reduces wear on the compressor pump.



Portability

If you plan to bring an air compressor to jobsites or move it around the shop frequently, make sure that it has wheels or isn't too heavy to carry. A low-profile model—which is easier to store under a workbench—will have a lower center of gravity, so you can also haul it in a truck with less danger of it tipping over.



Portability. Low-profile tanks with wheels are easy to move around the shop and bring to the jobsite.

Motor voltage

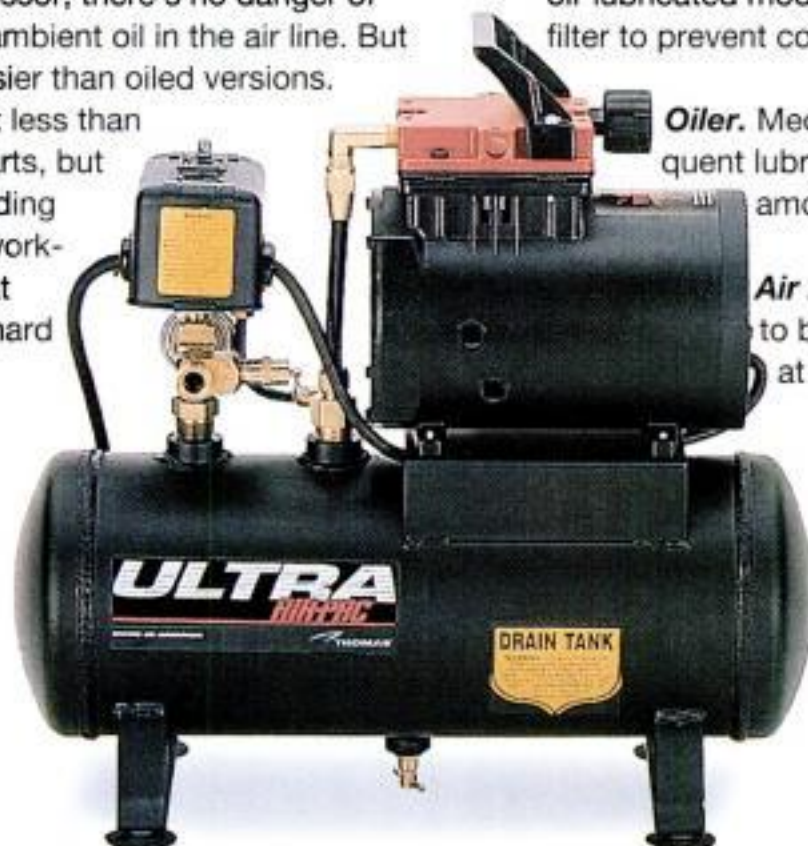
A 230-volt compressor operates more efficiently than one running on 115 volts. If your compressor use will be limited to your shop, consider a 230-volt model. If you want to use your compressor at a jobsite, you'll want to be able to plug into a 115-volt circuit. Some models will adapt to either 115 or 230 volts. (See chart.)

ssors

OIL-LESS MODELS

These compressors have a low-friction coating on their moving parts. The coating eliminates the need for lubricating oil (and hence oil and filter changes). When you use spray equipment with an oil-less compressor, there's no danger of contaminating finishes with ambient oil in the air line. But oil-less compressors are noisier than oiled versions.

Oil-less units generally cost less than their oil-lubricated counterparts, but oil-less pumps require rebuilding about every 1,000 to 2,000 working hours. If you're somewhat mechanically savvy, it's not hard to do the rebuild yourself.



options worth having

Air regulators. An air regulator allows you to adjust the line pressure to match your tool. Some compressors include one.

In-line filters. If you're planning on spraying finishes with an oil-lubricated model, get an in-line water filter and an in-line oil filter to prevent contamination of the finish.

Oiler. Mechanical air tools such as sanders require frequent lubrication. An in-line oiler dispenses small amounts of lubricant to the tool during use.

Air nozzle. These are inexpensive and allow you to blow dust off your work and out of your tools at the pull of a trigger.

air compressors

New models in red.



DeVilbiss FA752



Thomas T-30ST



Craftsman 919-16345

Brand & Model	List Price	Motor HP	Wheels	Tank Cpy. (gal.)	Max. Air Pressure (psi)	Constant Air Delivery Rate (cfm @ 90 psi)	Volts	Amps	Weight (lbs.)	Comments & Features
Thomas Industries T-617HD	\$329	1/2	N	2	125	1	115	4.2	29	
Campbell Hausfeld MT4110	119	3/4	—	—	100	2	115	8	21	Tankless; 15-ft. air hose.
Campbell Hausfeld MT5001	189	3/4	Y	7.5	100	2	115	8	59	Portable tank.
Coleman Powermate Contractor CP0070010	122	3/4	N	—	100	1.8	115	15	24	Tankless; 15-ft. hose w/air chuck.
DeVilbiss FA750	129	3/4	N	—	125	2.1	115	15	14	Constant run; handheld.
DeVilbiss FA752	179	3/4	N	2	125	2.1	115	15	27	Constant run; handheld.
Thomas Industries T-20HP	379	3/4	N	4.5	125	2.2	115	11.4	52	
Thomas Industries T-20ST	389	3/4	N	4	125	2.2	115	11.4	53	
Thomas Industries T-20WT	389	3/4	N	4	125	2.2	115	11.4	54	
Campbell Hausfeld MT6001	199	1	Y	7.5	100	3	115	10	62	Portable tank.
Campbell Hausfeld WL5100	199	1	N	3	125	2.5	115	10	51	Low amp draw; hot dog tank.
Coleman Powermate/ Contractor CP0100310	218	1	N	2.5	125	2.7	115	10.8	50	Hot dog tank.
Coleman Powermate CP0100810	212	1	Y	7.5	120	2.7	115	15	72	
DeVilbiss F18	229	1	Y	8	125	3	115	15	66	Portable tank.
DeVilbiss SDS100E3D	239	1	N	3	125	3	115	15	49	Hot dog tank.
DeVilbiss SDS100E4D	279	1	N	4	125	3	115	15	56	Pancake tank.
Thomas Industries T-35HD	389	1	N	3	125	2.8	115	10	45	
Thomas Industries T-30HP	469	1 1/4	N	4.5	125	2.9	115	12	56	
Thomas Industries T-30ST	479	1 1/4	N	4	125	2.9	115	12	58	
Thomas Industries T-30WT	479	1 1/4	N	4	125	2.9	115	12	60	
Air-Mate AMDOL78-HC4V	529	1 1/2	N	4	120	3.9 @ 100	115	15	46	Auto start/stop.
Airstream C21-15	353	1 1/2	N	1.5	120	3.9 @ 100	115	15	31	
Airstream C202-15	599	1 1/2	Y	2	120	3.9 @ 100	115	15	35	
Campbell Hausfeld WL5041	299	1 1/2	N	4	125	4.4	115	13	62	Low amp draw; twin-stack tank.
Campbell Hausfeld WL5043	299	1 1/2	N	4	125	4.4	115	13	60	Low amp draw; pancake tank.
Coleman Powermate/ Contractor CN0150410	254	1 1/2	N	4	125	4	115	14.7	64	Vertical pancake tank.
Craftsman 919-15034	130	1 1/2	N	—	125	2.9	115	15	14	Handheld.
Craftsman 919-15345	230	1 1/2	N	4	125	3.3	115	15	53	4 feet for stability.
Craftsman 919-16345	240	1 1/2	N	4	125	3.3	115	15	53	Pancake tank; 4 feet for stability.
Makair MAC500	299	1 1/2	N	3	125	2.9	115	14.2	25	
Makair MAC1000	645	1 1/2	N	3.5	120	4	115	14.2	61	Regulator & fittings included.
Makair MAC3000	1,134	1 1/2	N	8	120	5.4	115	14.2	130	Regulator & fittings included.
Campbell Hausfeld WL5058	299	2	N	4	125	4.4	115	13	72	Low amp draw; twin-stack tank.
Campbell Hausfeld WL5059	299	2	N	4	125	4.4	115	13	81	Low amp draw; pancake tank.
Coleman Powermate/ Contractor CS0170410	296	2	N	4	125	4.2	115	14	61	Twin-stack tank.
Makair MAC2000	754	2	N	4	120	6.1	115	14.2	59	Regulator, fittings incl.

OIL-LESS MODELS

KEY: Y = yes. N = no. — = not applicable. *175 psi is standard rating for 2-stage air compressors.

See page 144 for listing of manufacturers.

	Brand & Model	List Price	Motor HP	Wheels	Tank Cpy. (gal.)	Max. Air Pressure (psi)	Constant Air Delivery Rate (cfm @ 90 psi)	Volts	Amps	Weight (lbs.)	Comments & Features
OIL-LESS MODELS	Thomas Industries T-150	\$599	2	Y	7	125	5.3	115	12.5	100	
	Thomas Industries T-150BT	639	2	Y	18	125	5.3	115	12.5	123	
	Thomas Industries T-150HP	489	2	N	4.5	125	5.3	115	12.5	75	
	Thomas Industries T-150ST	489	2	N	4	125	5.3	115	12.5	74	
	Thomas Industries T-150WT	499	2	N	4	125	5.3	115	12.5	72	
	Thomas Industries T-2820	699	2	Y	7	125	5.4	115	13.5	100	
	Thomas Industries T-2820ST	629	2	N	4	125	5.4	115	13.5	70	
	Thomas Industries T-2820WT	629	2	N	4	125	5.4	115	13.5	72	
	Thomas Industries T-2150	689	2 1/2	Y	7	125	7.3	115	17.8	113	
	Thomas Industries T-2150BT	749	2 1/2	Y	18	125	7.3	115	17.8	137	
	Coleman Powermate CP0351110	228	3	Y	11	120	6.7	115	15	103	
	Makair MAC4000	1,334	3	N	5	120	9.5	230	11.5	82	Regulator & fittings included.
	Campbell Hausfeld WL6021	299	4	Y	20	125	6.3	115	15	114	Portable tank.
	Campbell Hausfeld WL6023	319	4	Y	26	125	6.3	115	15	175	Portable tank.
	Campbell Hausfeld WL6040	219	4	Y	13	125	5.8	115	15	97	
	Coleman Powermate CP0402010	259	4	Y	20	120	7	115	15	126	
	Campbell Hausfeld VS6231	349	4 1/2	Y	20	125	5.8	115	15	134	
	Campbell Hausfeld VT6231	399	4 1/2	Y	20	125	6.5	115/230	15	156	Portable tank.
	Campbell Hausfeld WL6030	319	5	Y	30	125	6.3	115	15	121	Vertical tank.
	Campbell Hausfeld WL6052	299	5	Y	26	125	6.3	115	15	123	
	Campbell Hausfeld WL6100	269	5	Y	20	125	6.3	115	15	111	
OIL-LUBRICATED MODELS	Coleman Powermate CP0502010	275	5	Y	20	120	7.3	115	15	129	
	Coleman Powermate CP0504410	352	5	Y	44	120	7.3	115	15	151	Vertical tank.
	Craftsman 919-16525	300	5	Y	25	130	7.1	115/230	15	130	
	Craftsman 919-16520	300	5	Y	20	130	7.1	115/230	15	123	Vertical tank w/ wheel & handle.
	Craftsman 919-16530	300	5	Y	30	130	7.1	115/230	15	128	More air accessory power.
	DeVilbiss F5030V	349	5	N	30	125	6.9	115/230	15/7.5	143	Stationary/vertical ASME tank.
	DeVilbiss FTV660V	459	6	N	60	125	11.1	230	15	230	
	Air-Mate AM39-HC4V	487	3/4	N	4	125	2.6	115	11	51	Auto start/stop.
	Air-Mate AM78-HC4V	529	1 1/2	N	4	125	4.1	115	17	54	Auto start/stop.
	Air-Mate AM79-HC4V	529	1 1/2	N	4	125	4.2 @ 100	115	15	52	Hand carry; direct drive.
	DeVilbiss SD150E4TTD	349	1 1/2	N	4	120	3.3	115	15	60	Twin 2-gallon tanks.
	Emglo K15A-8P	782	1 1/2	Y	8	150	6.2 @ 100	115/230	16/7.8	175	Constant run control; cast iron; belt drive.
	Emglo K15A-30V	862	1 1/2	N	30	125	6.5	115/230	15.5/7.8	205	Auto start/stop.
	Jet DHC15T3	450	1 1/2	N	3	125	4.5	115	14	55	Electric direct drive.

KEY: Y = yes. N = no. — = not applicable. *175 psi is standard rating for 2-stage air compressors.

Chart continued on next page.

air compressors

New models in red.



Makair MAC3000



Makair MAC4000



Air-Mate AM79-HC4V

See page 144 for listing of manufacturers.

air compressors

New models in red.



DeVilbiss SD150E4TTD



Coleman CV5038023



Craftsman 919-18643

Brand & Model	List Price	Motor HP	Wheels	Tank Cpy. (gal.)	Max. Air Pressure (psi)	Constant Air Delivery Rate (cfm @ 90 psi)	Volts	Amps	Weight (lbs.)	Comments & Features
Jet DHC15T4	\$465	1½	N	4	125	4.5	115	14	55	Electric direct drive.
Jet DHC15T4N	493	1½	N	4	125	4.3	115	14	47	
Jet EPC15T8	829	1½	Y	8	125	5.9	115/230	15/7.5	110	Electric belt drive.
Jet EPC15T17	891	1½	Y	17	125	5.9	115/230	15/7.5	126	Electric belt drive.
Lobo AC-1508	299	1½	N	8	115	3.3	115	15-21	100	Horizontal tank.
Lobo N-AC-1508	299	1½	Y	8	115	3.3	115	12	60	Portable tank.
Quincy A15CTEB	956	1½	Y	8	125	6.2	115	15	150	Dual-control.
Quincy A15CTEC	979	1½	Y	8	125	6.2	115/230	15	155	Dual-control.
Air-Mate AM99-HC4V	614	2	N	4	125	5.6	115	19	61	Runs on 20-amp breaker.
Air-Mate AMK2A8P	860	2	Y	8	125	8.4	115/230	19.8/9.9	180	Constant run control.
Campbell Hausfeld FP2000	319	2	N	4	125	4.2	115	13	62	Low amp draw; twin-stack tank.
Campbell Hausfeld VT6131	499	2	Y	8	125	5.6	115/230	15	175	Wheelbarrow tank.
Coleman Powermate/Contractor CT0200813	479	2	Y	8	125	5.6	115	13.6	130	Wheelbarrow tank.
DeVilbiss SDS2E8DCD	579	2	Y	8	125	5.6	115	15	114	Twin tanks.
Emglo K2A-8P	860	2	Y	8	125	8.4	115/230	19.8/9.9	180	Constant run control.
Coleman Powermate CP0301113	307	3	Y	11	120	6.7	115/230	15	130	
Coleman Powermate CP0302013	354	3	Y	20	120	6.7	115/230	15	154	
Emglo G3A-8P	1,305	3	Y	8	150	13.5 @ 100	230	23	240	Cast iron; belt drive.
Emglo GC3E-30V	1,429	3	N	30	150	14.2	230	17	288	Cast iron.
Quincy Air Master 131A20PN3	596	3	Y	20	120	6.7	115	15	150	
Quincy Air Master 131A30VC3	755	3	N	30	120	6.7	115	15	260	
Campbell Hausfeld VS5001	319	4	Y	13	125	5.8	115	15	116	
Campbell Hausfeld VT6196	339	4	Y	20	125	6.4	115/230	15	156	Portable tank.
Coleman Powermate CP0402013	364	4	Y	20	120	6.9	115/230	15	160	
Campbell Hausfeld VT6233	419	4½	Y	26	125	6.5	115/230	15	175	Portable tank.
Campbell Hausfeld VS5006	359	5	Y	20	125	5.8	115	15	131	
Campbell Hausfeld VS5007	379	5	Y	30	125	5.8	115	15	215	
Campbell Hausfeld VT5587	429	5	N	60	125	9	230	15	290	Vertical tank.
Campbell Hausfeld VT6182	399	5	Y	20	125	9	230	15	156	Portable tank.
Campbell Hausfeld VT6290	399	5	Y	20	125	6.5	115	15	159	
Coleman Powermate CL5006016	459	5	N	60	120	11.1	208/230	15	240	Vertical tank.
Coleman Powermate CP0502013	378	5	Y	20	120	7.1	115	15	163	
Coleman Powermate CV5038023	1,166	5	N	80	175	16 @ 175*	230	22	610	Cast-iron pump.
Craftsman 919-18643	400	5	Y	20	125	7.1	115/230	15/7.5	136	Portable tank.
DeVilbiss L5020	449	5	Y	20	125	7.1	115/230	15/7.5	135	Portable tank.
Emglo GT5B-60V	1,908	5	N	60	175	17	230	23	400	2-stage pump.
Emglo W5B-80	2,348	5	Y	80	175	19	230	23	610	Low rpm for long life.

OIL-LUBRICATED MODELS

KEY: Y = yes. N = no. — = not applicable. *175 psi is standard rating for 2-stage air compressors.

See page 144 for listing of manufacturers.

Brand & Model	List Price	Motor HP	Wheels	Tank Cpy. (gal.)	Max. Air Pressure (psi)	Constant Air Delivery Rate (cfm @ 90 psi)	Volts	Amps	Weight (lbs.)	Comments & Features
Lobo AC-5022	\$499	5	N	22	125	11.4	230	15-21	300	Horizontal tank.
Lobo AC-5080	1,199	5	N	80	175	18	230	15-21	350	Mag. switch; 3 HP optional; vertical tank.
Quincy 151C20PN3	639	5	Y	20	120	9.6	230	15	130	
Quincy 151C30VC3	768	5	N	30	120	9.6	230	15	170	
Quincy 151C60VC3	792	5	N	60	120	9.6	230	15	260	
Quincy 241C60VC	1,653	5	N	60	175	17.6 @ 175*	230	22	495	2-stage pump.
Quincy 251C80VC	2,154	5	N	80	175	17.6 @ 175*	230	26	575	2-stage pump.
Campbell Hausfeld VT6235	429	5½	Y	26	125	9	230	15	175	Portable tank.
Campbell Hausfeld VT6195	449	6	N	60	125	9.1	230	15	290	Vertical tank.
Coleman Powermate CL6006016	468	6	N	60	120	11.4	208/230	15	243	Vertical tank.
DeVilbiss L660V	499	6	N	60	125	10.4	230	15	240	Vertical tank.
Coleman Powermate CL6506016	482	6½	N	60	120	11.6	208/230	15	245	Vertical tank.
Coleman Powermate CP6502516	431	6½	Y	25	120	11.6	208/230	15	179	
Coleman Powermate CV5046049	815	6½	N	60	175	13 @ 175*	208/230	22	325	Aluminum pump w/cast-iron cylinder.
Coleman Powermate CV6548049	1,080	6½	N	80	175	13.5 @ 175*	208/230	22	405	Aluminum pump w/ cast iron cylinder.
Craftsman 919-18426	600	6½	N	60	125	10.5	230	20	275	Stationary tank.
Craftsman 919-18695	500	6½	Y	20	125	10.5	230	20	142	Cast-iron cylinder sleeves.
DeVilbiss LK6580V2	999	6½	N	80	175	16 @ 175*	230	30	442	Vertical tank, 2-stage pump.
Coleman Powermate CV7518023	1,350	7½	N	80	175	18 @ 175*	230	32	710	Cast-iron pump.
Coleman Powermate CV7548060	1,428	7½	N	80	175	24 @ 175*	230	29	505	Aluminum pump w/cast-iron cylinder.
DeVilbiss LM7580V2M	1,599	7½	N	80	175	23 @ 175*	230	30	493	2-stage.
Lobo AC-7580	1,499	7½	N	80	175	22	230	15-21	400	Cast-iron pump, vertical tank.
Quincy 271C80VC	3,203	7½	N	80	175	23.8 @ 175*	230	40	665	2-stage.

KEY: Y = yes, N = no. — = not applicable. *175 psi is standard rating for 2-stage air compressors.

air compressors

New models in red.



Coleman CV5046049



DeVilbiss LK6580V2

See page 144 for listing of manufacturers.

Where Great

DEALS

Come Out of the Woodwork

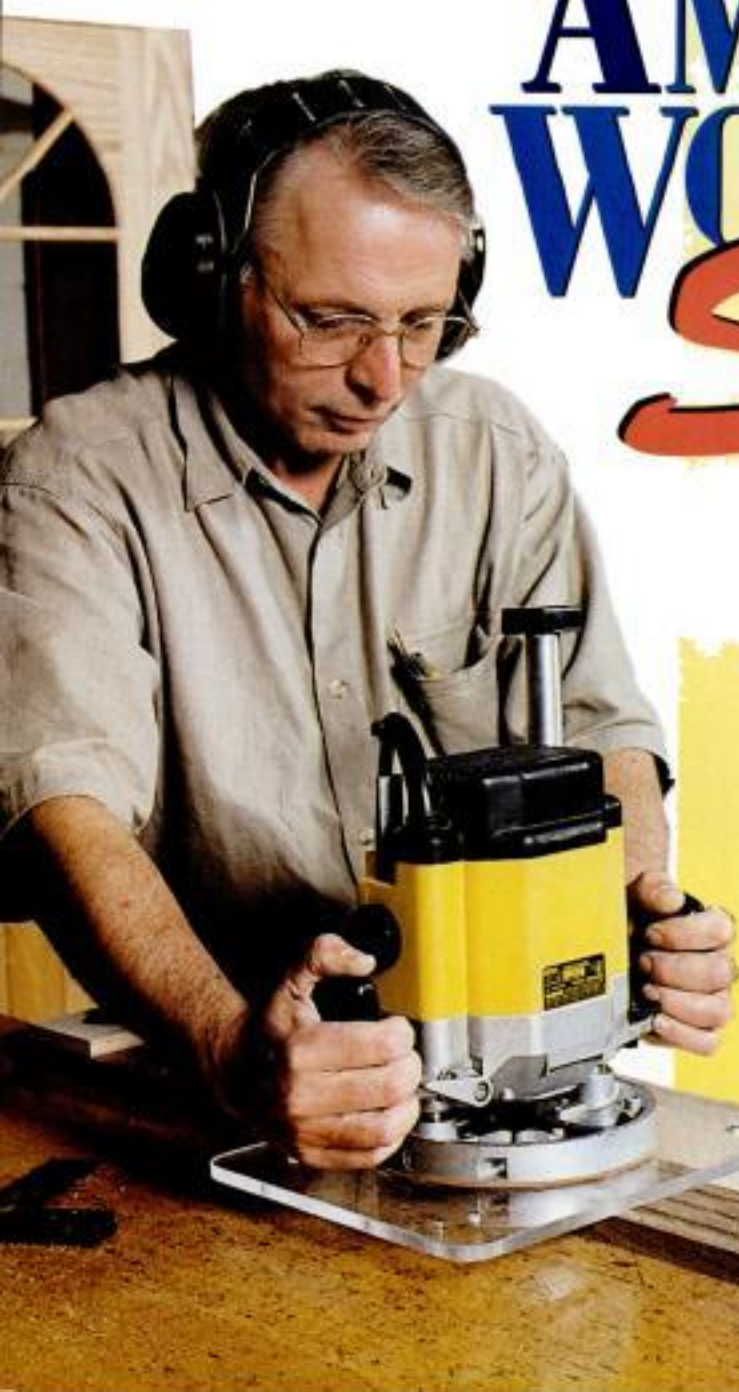
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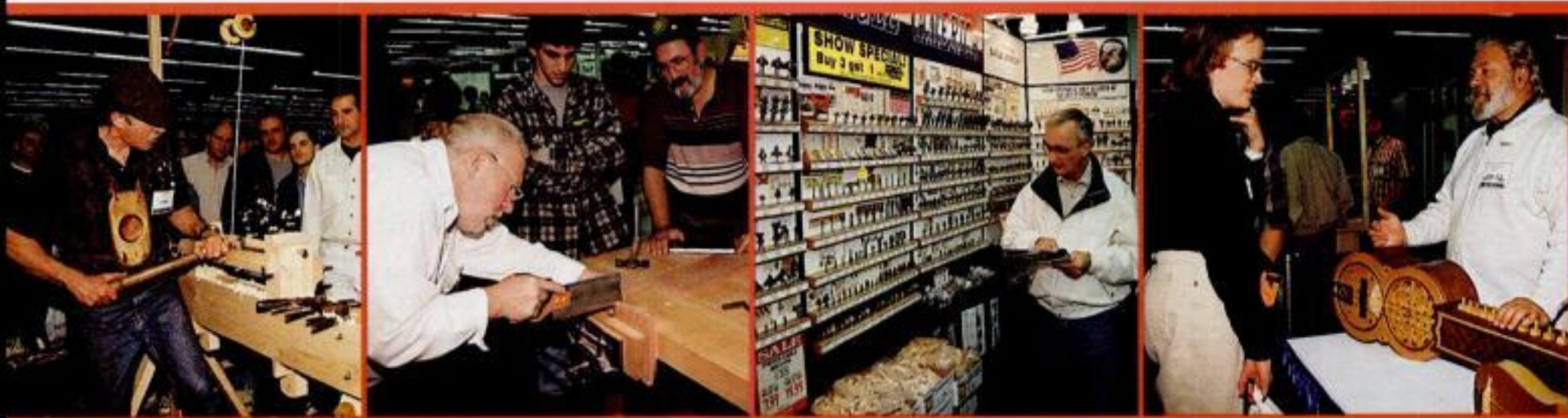
AMERICAN WOODWORKER

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March 6, 7, 8, 1998

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SEMINAR SCHEDULE

GETTING THE MOST FROM YOUR ROUTER

Friday 1:00pm-3:00pm
Saturday 8:30am-10:30am

Ernie Conover

In this seminar, you'll learn how to:

- Select the right router for your needs •Choose and use router bits •Perform router table operations and joinery •Rout safely and efficiently •Work with router fences and dovetail jigs •Use template guide bushings

Who should attend: Beginning to intermediate woodworkers

About the presenter: Ernie Conover has been a woodworking teacher and demonstrator for 20 years. He and his wife Susan run Conover Workshops, a woodworking school in Parkman, OH.

GETTING THE MOST FROM YOUR TABLESAW

Friday 1:00pm-3:00pm
Saturday 4:00pm-6:00pm

Mark Duginske

In this seminar, you'll learn how to:

- Use the tablesaw for joinery—tenons, finger joints, variably-spaced dovetails •Make and use tablesaw jigs and fixtures •Work safely with the tablesaw •Align and troubleshoot your tablesaw for top performance •Choose the right blade for the job •Use dado heads and molding heads

Who should attend: All woodworkers

About the presenter: A fourth-generation Wisconsin woodworker, Mark Duginske is a prolific writer, designer and inventor. His work has appeared in numerous magazines and books, including *Cutting Shapes and Profiles* (Rodale Press, 1997).

SHARPENING SECRETS

Friday 4:00pm-6:00pm
Saturday 8:30am-10:30am

Leonard Lee

In this seminar, you'll learn how to: •Sharpen chisels and plane blades •Sharpen cabinet scrapers •Sharpen carving and turning gouges •Check an edge for sharpness •Choose the right grindstones, bench stones, microabrasives and polishing compounds

Who should attend: All woodworkers

About the presenter: Author of books and magazine articles on planemaking and sharpening, Leonard Lee has been a woodworker for over 35 years. He is president of Veritas Tools Ltd. and Lee Valley Tools.

DESIGN AND BUILD GREAT FURNITURE

Friday 4:00pm-6:00pm
Saturday 1:00pm-3:00pm

Ian Kirby

In this seminar, you'll learn how to: •Design and make joints—butt joints, mortise and tenon, dovetail •Make the best design decisions •Design to accommodate wood movement •Choose adhesives and clamping methods •Design with alternate surface treatments—veneer and leather •Integrate the key design elements—form, space, proportion and function

Who should attend: All woodworkers

About the presenter: Trained in England as a furniture maker, designer and wood technologist, Ian Kirby has taught and written extensively on woodworking in the United States and England for over 30 years.

FEARLESS FINISHING

Friday 8:30am-10:30am
Saturday 4:00pm-6:00pm

Michael Dresdner

In this seminar, you'll learn how to: •Select the best finish for the job •Get a professional-looking finish on your project—from surface preparation to final polish •Choose the right brush •Understand wood stains and use them correctly

Who should attend: All woodworkers

About the presenter: A contributing editor of *AMERICAN WOODWORKER* magazine, Michael Dresdner writes our "Just Finishing" column and hosts our finishing "chat room" on the America Online computer service every Sunday night. He is the author of *The Woodfinishing Book* (Taunton Press, 1993).

SETTING UP SHOP

Friday 8:30am-10:30am
Saturday 1:00pm-3:00pm

Sandor Nagyszalanczy

In this seminar, you'll learn how to:

- Decide which tools to buy, in which order •Buy the right quality tools and equipment •Stretch your tool budget •Lay out your shop for best results •Make the most efficient use of space •Get dust and chips under control

Who should attend: Beginning to intermediate woodworkers

About the presenter: Furniture designer and author of four books, with 18 years of woodworking experience and six years as an editor of *Fine Woodworking* magazine, Sandor Nagyszalanczy writes and lectures frequently on woodworking topics.

AMERICAN WOODWORKER Dodge Truck Giveaway Official Rules NO PURCHASE NECESSARY

1. To enter, obtain, complete and deposit an official entry form at The American Woodworker Show™ in Novi, MI, Fort Washington, PA or Ontario, CA; or print your full name, address, and daytime telephone number on a 3" x 5" piece of paper, place in a stamped envelope and mail to: The American Woodworker Dodge Truck Giveaway, 33 East Minor Street, Emmaus, PA 18098; or visit us on the internet at www.americanwoodworkershow.com and follow the instructions there.
2. Limit one entry per person. All entries must be deposited or postmarked by the Sweepstakes ending date of March 20, 1998. Mailed entries must be received no later than March 20, 1998. Mechanically reproduced, damaged, lost, late, postage due, misdirected, incomplete, or illegible entries are not eligible. All entrants agree to be bound by the official rules and the decisions of the judges.

3. Winner selected by random drawing from eligible entries on or about March 23, 1998. Odds of winning depend on the number of entries. Winner will be notified by phone and/or mail. Winner will be required to sign and return an Affidavit of Eligibility and Release within 14 days of receipt of notification. Noncompliance or return of any prize notification as undeliverable, will result in the disqualification of the entry and selection of an alternate winner. The winner must consent to the use of his or her name and/or likeness for promotional purposes without additional compensation, except where prohibited by law.

4. Grand Prize: One 1998 Dodge Ram 1500 Laramie SLT 135" WB truck with an estimated MSRP value based on 1997 pricing of \$23,270 (including destination) or less, to be delivered to the authorized Dodge dealer nearest the winner's residence in the United States. (If the winner is from Massachusetts, New York or California, add \$102 to the MSRP for a state-mandated emissions package.) No transfer or substitution of prize is permitted except by sponsor due to prize unavailability. All taxes, insurance, licensing and other associated fees are the responsibility of the winner.

5. Sweepstakes open to legal residents of the 50 United States, only, who, as of March 23, 1998, are 18 years or older. Winners must reside in the United States at time of prize delivery. Employees (and members of their immediate families) of Rodale Press, Inc., the Chrysler Corporation, their subsidiaries and dealers are not eligible. The winner agrees to hold harmless the Chrysler Corporation and Rodale Press, Inc., and each of their respective affiliates, officers, directors, employees, representatives, agents, successors and assigns from any and all loss, liability, damage, cost and expense arising out of the Giveaway. Void where prohibited, and subject to all federal, state and local laws.

6. For the prize winner's name, available after April 30, 1998, send a self-addressed, stamped envelope to The American Woodworker Show™, Show Management Division, 33 East Minor Street, Emmaus, PA, 18098. Requests received after May 15, 1998, will not be honored.

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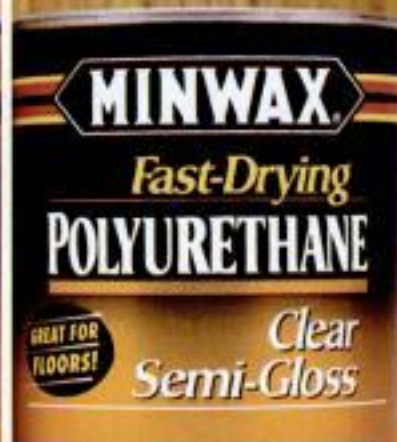
Inner Beauty

18 Beautiful
Colors



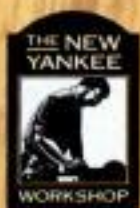
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air nailers



Single-shot nailing. An air nailer greatly speeds up nailing, and it won't knock pieces out of alignment like a hammer can.

Whether you're fastening a cabinet back, attaching molding or cobbling together a jig, there is nothing that speeds up nailing like an air finish nailer. An air-powered nailer drives a nail in a single stroke with the pull of a trigger. It can set a brad or finish nail below the surface of the wood in the same stroke. Air nailers won't knock two aligned surfaces out of place like a hammer will. And the nails that these guns use tend to tear their way through wood rather than splitting it like conventional nails.

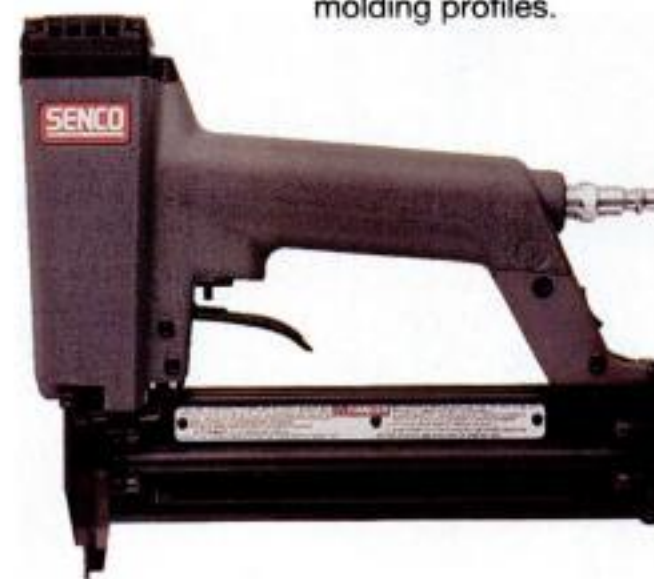
Almost any small, $\frac{3}{4}$ -HP air compressor with a tank will provide the 100 psi necessary to drive a brad gun or finish nailer. You'll also need a pressure regulator for the compressor.

2 types of nailers

BRAD NAILERS

Brad nailers shoot 18-gauge finish nails called brads. The guns typically accept brads from $\frac{5}{8}$ in. to about $1\frac{1}{2}$ in. long, although some will accept brads as short as $\frac{3}{8}$ in. and as long as 2 in. A few models will also drive narrow crown staples. (See chart,

page 44.) Generally used to attach thinner materials such as cabinet backs or thin trim moldings, brads are less likely than finish nails to split wood. A brad nailer also has a smaller nose than a finish nailer and will fit more easily into tight spaces and complex molding profiles.



features to consider

Weight

Although weight is not a problem with brad guns, finish nailers over 5 lbs. can get tiresome to handle.

Nail Magazine Angle

The nail magazine on some finish nailers is angled back toward the gun's handle. This makes it easier to get your nailer into corners and tight spots.

Safety System

Most guns have a retractable nosepiece that must be depressed against the workpiece before the trigger can fire. Some guns have double triggers instead, both of which must be pulled to fire the gun.

Bump Firing

This feature is useful for production work because it lets you nail by simply pressing the safety tip against the workpiece while holding the trigger down. You don't have to release the trigger after every shot.

Rubber Nose Tip

A rubber nose tip prevents the gun's nose from marring the wood. (See photo, below right.) Though rubber tips aren't available for some models, they're standard or optional for others.

Quick-Release Nosepiece

Nails sometimes jam in the nose mechanism. When this happens, a quick-release nosepiece is useful for clearing jams quickly. (See photo, above right.)

Drive-Depth Adjustment

A few guns sport a dial near the tip that lets you adjust the amount of countersink, or set, of the nail without changing the air-line pressure.



Quick-release nosepiece. A draw-catch release allows quick access to the firing compartment for clearing jams.



Rubber nose tip. A rubber nose tip keeps wood from being marred by the gun's nose.

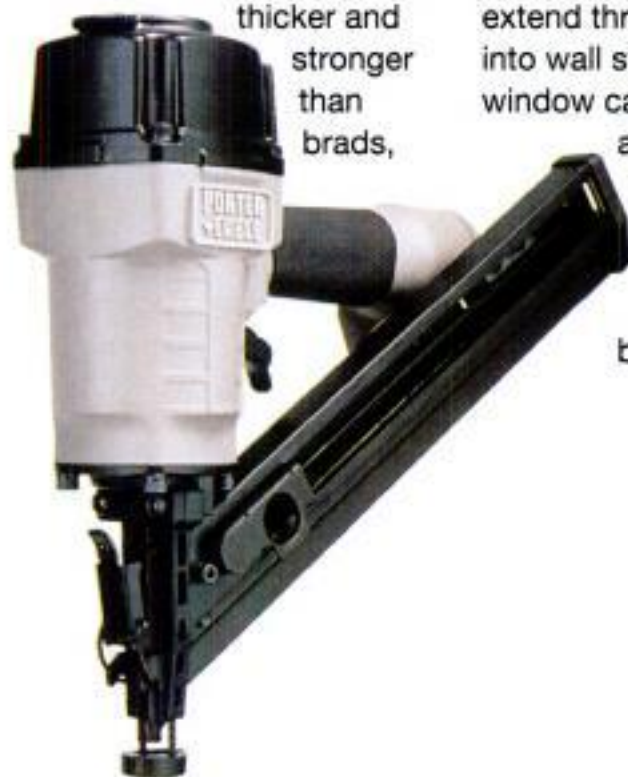
FINISH NAILERS

Finish nailers shoot 15- or 16-gauge nails typically ranging from about 1 in. to 2½ in. long. (See chart.) These nails,

thicker and stronger than brads,

are better suited to nailing thicker stock like cabinet carcasses and large crown moldings. The longer nails will also extend through drywall and into wall studs, for attaching window casings and other architectural trim.

Finish nails will penetrate dense hardwoods and won't crumple like brads might.



options worth having

Swivel fitting. A swivel air-line fitting connected to your gun will eliminate twisted hoses and give you greater maneuverability in tight spots.

air nailers

New models in red.



Hitachi NT50AD



Makita AF502



Porter-Cable BN200



Stanley-Bostitch BT-35B

Brand & Model	List Price	Length Range	Magazine Type, Material	Safety System	Bump Firing	Rubber Nose Tip	Quick-Release Nose-piece	Drive Depth Adj.	Recomm. Air Pressure (psi)	Pressure Regulator	Weight (lbs.)	Comments & Features
Airy 0232SP	\$79 - 99	3/8 - 1 1/4	S, AL	2	N	N	N	Y	80 - 100	N	2.6	Cushion-grip handle.
Airy 0241SRNK	109 - 129	3/8 - 1 9/16	S, P	2	N	N	N	Y	80 - 100	N	2.7	Case with nails.
Airy 0249SRNK	139	5/8 - 2	S, AL	2	N	N	N	Y	80 - 100	N	3	Case with nails.
Airy ATT-02415K	188	3/8 - 1 9/16	S, P	2	N	N	Y	Y	80 - 100	N	2.6	Case; 5,000 assorted fasteners.
Airy EZ-2	149 - 189	3/8 - 1 1/4	S, AL	2	N	N	N	Y	80 - 100	N	3.5	Also shoots narrow crown staples.
Atro I-Strong	370	5/8 - 1	S, AL	2	N	N	Y	N	70 - 85	N	2.6	
Atro TI-Pin 44	358	5/8 - 1 3/4	S, AL	DT	N	N	Y	Y	65 - 110	N	2.5	No dynamic o-rings; oil-less.
Campbell Hausfeld NB0030	99	3/8 - 1 1/4	S, AL	DT	N	N	N	N	50 - 100	OPT	2.6	
Campbell Hausfeld SN258K	99	3/8 - 1	S, AL	DT	N	N	N	N	50 - 100	OPT	2.7	
Craftsman 18309	95	3/8 - 1 1/4	S, AL	DT	Y	N	N	N	60 - 100	N	2.5	Oil-less; case available.
Craftsman 18323	135	5/8 - 2	S, AL	DT	Y	N	Y	N	60 - 100	N	3.3	Case available.
DeVilbiss SHBN4	119	1/4 - 1 1/4	S, AL	DT	Y	N	Y	N	65 - 100	N	2.7	
Duo-Fast DBN-4052	209	5/8 - 1 9/16	S, P	2	N	N	N	N	70 - 120	N	2	Lightweight; compact.
Fasco F20PGN31	372	1/2 - 1 1/4	S, AL	DT	Y	N	Y	N	80 - 110	N	2.5	Industrial tool.
Fasco F20TGN40	386	1/2 - 1 9/16	S, AL	DT	Y	N	Y	N	80 - 110	N	2.8	Industrial tool.
Grizzly G1852	60	3/16 - 3/8	S, AL	DT	Y	N	N	N	90 - 100	N	2.6	
Grizzly G1861	80	9/16 - 5/8	S, AL	DT	Y	N	N	N	90 - 100	N	3.3	
Haubold SKN-40V/12	420	3/4 - 1 9/16	S, AL	DT	Y	Y	Y	N	57 - 100	N	3.7	
Hitachi NT50AD	552	1 - 2	S, AL	DT, 2	N	Y	N	Y	70 - 120	N	2.5	360° exhaust; leather grip.
Jamerco JTBN1832	96	5/8 - 1 1/4	S, AL	DT	Y	N	N	N	52 - 100	N	2.5	
Jamerco JTBN1832A	124	5/8 - 1 1/4	S, AL	DT	Y	N	N	N	70 - 100	N	2	Directional exhaust.
Jamerco JTBN1842A	150	5/8 - 1 5/8	S, AL	DT	Y	N	N	N	70 - 100	N	2.5	Directional exhaust.
Jamerco JTBN1850	146	5/8 - 2	S, AL	DT	Y	N	N	N	60 - 100	N	3.2	
Jamerco JTBN1850A	171	5/8 - 2	S, AL	DT	Y	N	N	N	70 - 100	N	2.7	Directional exhaust.
Josef Kihlberg JK24-512	400	5 5/8 - 13 1/16	S, AL	DT	Y	N	N	N	58 - 87	N	2.4	
Makita AF502	469	5/8 - 2	S, AL	SL	Y	Y	N	Y	65 - 120	N	2.5	
Max NF201/18-35	190	3/8 - 13/8	S, P	DT	Y	Y	Y	Y	60 - 100	N	1.8	
Max NF211/18-25	495	3/8 - 13/8	S, AL	DT	Y	Y	Y	Y	60 - 100	N	2.2	Directional exhaust.
Max NF211/18-50	525	1 - 2	S, AL	DT	N	Y	Y	Y	60 - 100	N	2.6	Directional exhaust.
Paslode 2138-F18II	482	5/8 - 13/8	S, AL	DT	Y	N	Y	N	80 - 120	N	2.8	
Penn State PSI ANK-2	130	5/8 - 2	S, AL	DT	Y	N	N	N	60 - 110	N	3.7	Case; extra drive blade; nails.

BRAD NAILERS = 18 GAUGE

KEY: Magazine Type: S = straight, A = angled. Magazine Material: AL = aluminum, P = plastic, ST = steel. Safety System: 2 = 2 triggers, DT = depress tip on work surface, SL = safety lock. Y = yes. N = no. OPT = optional. — = not applicable.

[Continued on page 46.](#)

See page 144
for listing of manufacturers.

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air nailers

New models in red.



Craftsman 18321



Paslode IM250II



Airy 0566TP



Campbell Hausfeld NB3565

Brand & Model	List Price	Length Range	Magazine Type, Material	Safety System	Bump Firing	Rubber Nose Tip	Quick-Release Nose-piece	Drive Depth Adj.	Recomm. Air Pressure (psi)	Pressure Regulator	Weight (lbs.)	Comments & Features
BRAD NAILERS = 18 GAUGE												
Penn State PSI ANK-SUP	\$110	3/8 - 1 9/16	S, P	DT	N	N	N	Y	55 - 100	N	2	Case; extra drive blade; nails.
Porter-Cable BN125	154	5/8 - 1 1/4	S, AL	DT	Y	N	Y	N	70 - 120	N	2.8	Kit; case.
Porter-Cable BN200	248	3/4 - 2	S, AL	DT	Y	N	Y	N	70 - 120	N	2.5	Case.
Reliant DD241	80	3/8 - 1 3/16	S, AL	DT	N	N	N	N	60 - 100	N	2.5	Narrow nosepiece.
Reliant DD243	120	3/8 - 1 5/8	S, AL	DT	N	N	N	N	60 - 100	N	3	Narrow nosepiece.
Senco LS1 Headless Pinner	310	1/2 - 1	S, AL	DT	N	N	Y	N	80 - 110	N	2.7	Easy to maneuver.
Senco SLP20 Brad Nailer	325	5/8 - 1 5/8	S, P	DT	N	N	Y	N	70 - 120	N	2.3	Oil-less.
Spotnails CB1820	118	3/16 - 1 1/4	S, AL	DT	Y	N	N	N	85 - 100	OPT	2.6	
Spotnails DB1825	234	5/8 - 1	S, ST	DT	Y	N	N	N	85 - 100	OPT	3.1	
Spotnails GB1832	262	7/8 - 1 3/4	S, ST	DT	Y	N	N	N	85 - 100	OPT	3.3	
Stanley-Bostitch BT-35B	279	5/8 - 1 3/8	S, AL	2	N	N	Y	N	70 - 100	OPT	2.4	Anti-jam magazine.
Stanley-Bostitch BT-50B	335	1 3/16 - 2	S, AL	2	N	N	Y	N	70 - 100	OPT	2.6	Anti-jam magazine.
Woodtek 832364	110	5/8 - 1	S, P	2	Y	N	N	Y	80 - 100	N	3	Also shoots narrow crown staples.
Woodtek 832371	139	5/8 - 1 1/2	S, P	2	Y	N	N	Y	80 - 100	N	2.3	
Woodtek 832378	170	3/4 - 2	S, ST	2	Y	N	N	Y	80 - 100	N	3.5	
Woodtek 882371	86	5/8 - 1 1/2	S, ST	2	Y	N	N	Y	80 - 100	N	2.3	Also shoots narrow crown staples.
Craftsman 18321	199	3/4 - 2 1/2	S, AL	DT	Y	Y	Y	Y	60 - 100	N	4.1	Rubber grip; 16 gauge.
Grizzly G2413	170	1 1/2 - 2 1/2	S, AL	DT	Y	N	N	N	90 - 100	N	5.9	16 gauge.
Hitachi NT65A	749	1 - 2 1/2	S, AL	DT	Y	Y	N	Y	70 - 120	N	4.6	16 gauge.
Max NF352/16-50	510	1 - 2	S, AL	DT	N	N	Y	Y	60 - 100	N	3.6	16 gauge.
Paslode IM250II	550	3/4 - 2 1/2	S, AL	DT	N	Y	Y	Y	—	—	5.5	Cordless; 16 gauge.
Penn State PSI ANK-3	210	5/8 - 2 1/2	S, AL	DT	Y	N	N	N	70 - 120	N	5	Case; extra drive blade; 16 gauge.
Porter-Cable FN200	271	3/4 - 2	S, AL	DT	Y	Y	Y	N	70 - 120	N	5.5	16 gauge; case
Porter-Cable FN250A	315	3/4 - 2 1/2	S, AL	DT	Y	Y	Y	Y	70 - 120	N	4.3	16 gauge; case.
Spotnails FB1632	268	3/8 - 2	S, AL	DT	Y	N	N	N	85 - 100	OPT	3.4	
Spotnails HB1640	380	1 - 2 1/2	S, AL	DT	Y	N	Y	N	85 - 100	OPT	5.3	
Woodtek 832385	225	1 - 2 1/2	S, ST	DT	Y	N	N	Y	80 - 100	N	7	16 gauge; fitted case.
Airy 0350NK	179 - 199	3/4 - 2	S, P	DT	Y	Y	N	Y	80 - 100	N	5	Case with nails.
Airy 0566TP	239 - 279	1 - 2 1/2	A, AL	DT	Y	Y	Y	N	80 - 100	N	7	Case.
Airy ATF-0350K	340	3/4 - 2	S, P	DT	Y	Y	Y	Y	80 - 100	N	4	Case; assorted fasteners.
Atro Monza Brad 64	538	1 1/4 - 2 1/2	A, AL	DT	N	Y	Y	Y	65 - 110	N	4.3	No dynamic o-rings; oil-less.

FINISH NAILERS = 15 OR 16 GAUGE

KEY: Magazine Type: S = straight, A = angled. Magazine Material: AL = aluminum, P = plastic, ST = steel. Safety System: 2 = 2 triggers, DT = depress tip on work surface, SL = safety lock. Y = yes. N = no. OPT = optional. — = not applicable.

Continued on page 48.

See page 144 for listing of manufacturers.

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CIRCLE NO. 13 ON PRODUCT INFORMATION FORM

air nailers

New models in red.



DeVilbiss FN7



Grizzly G3690

Brand & Model	List Price	Length Range	Magazine Type, Material	Safety System	Bump Firing	Rubber Nose Tip	Quick-Release Nose-piece	Drive Depth Adj.	Recomm. Air Pressure (psi)	Pressure Regulator	Weight (lbs.)	Comments & Features
Atro Tip 50	\$470	1 - 2	S, AL	DT	Y	N	Y	N	90 - 120	N	4.3	
Campbell Hausfeld NB0050	199	3/4 - 2	S, AL	DT	Y	Y	Y	N	70 - 110	OPT	4.8	
Campbell Hausfeld NB3565	279	1 1/2 - 2 1/2	A, AL	DT	Y	Y	Y	N	70 - 110	OPT	5.3	
DeVilbiss FN7	199	3/4 - 2	S, AL	DT	Y	N	Y	N	65 - 100	N	5.1	
Duo-Fast DAFN-6480	551	1 1/4 - 2 1/2	A, AL	DT	Y	Y	Y	Y	70 - 120	N	5.6	
Duo-Fast LFN-764	580	1 - 2	S, A	DT	N	Y	N	N	70 - 120	N	4.1	
Fasco F3TFN70	596	1 1/2 - 2 3/4	S, AL	DT	Y	N	Y	N	80 - 110	N	5	Industrial tool.
Haubold SKN-40V/16	414	5/8 - 1 5/8	S, ST	DT	Y	Y	Y	N	57 - 100	N	3.7	
Haubold SKN-64A/16	444	1 3/16 - 2 1/2	S, ST	DT	Y	OPT	N	N	85 - 110	N	4.8	
Jamco JTFN1650	247	3/4 - 2	S, AL	DT	Y	N	N	N	60 - 100	N	4.4	
Jamco JTFN1664	361	1 - 2 1/2	S, AL	DT	Y	Y	Y	Y	70 - 100	N	5.4	Countersinks even in hardwoods.
Reliant DD211	200	3/4 - 2 1/2	S, AL	DT	N	N	N	N	75 - 120	N	5.8	
Spotnails KB 1564	370	1 1/4 - 2 1/2	S, ST	DT	Y	Y	Y	Y	70 - 120	OPT	5.3	
Stanley-Bostitch N60SN	557	1 1/4 - 2 1/2	A, AL	2	N	Y	Y	Y	70 - 100	OPT	4.6	Multidirectional exhaust.
Woodtek 864374	235	1 - 2	S, P	DT	Y	N	N	Y	80 - 100	N	4	15 or 16 gauge; case.
Craftsman 18329	290	1 1/2 - 2 1/2	A, AL	DT	Y	Y	Y	N	60 - 100	N	5.8	15 gauge
DeVilbiss AFN5	280	1 - 2 1/2	A, AL	DT	Y	Y	Y	N	75 - 100	N	6	15 gauge.
Grizzly G3690	195	1 1/2 - 2 1/2	A, AL	DT	Y	Y	Y	N	80 - 120	N	5.9	15 gauge.
Makita AF631	425	1 1/4 - 2 1/2	A, AL	DT, 2, SL	Y	Y	Y	N	65 - 120	N	5.5	15 gauge.
Max NF510/15-50	530	1 - 2	A, AL	DT	Y	Y	Y	Y	60 - 100	N	4	15 gauge.
Penn State PSI ANK-5	250	1 - 2 1/2	A, AL	DT	Y	Y	Y	N	50 - 100	N	5.3	15 gauge.
Porter-Cable DA250A	432	1 1/4 - 2 1/2	A, AL	DT	Y	Y	Y	Y	70 - 120	N	6	15 gauge; case; soft-grip handle.
Reliant DD244	230	1 1/2 - 2 1/2	A, AL	DT	Y	Y	Y	N	80 - 120	N	6	15 gauge; 100-nail capacity.
Senco SFN1+	390	1 - 2	A, P	DT	Y	Y	Y	Y	70 - 120	N	4.3	15 gauge; oil-less.
Senco SFN40	465	1 1/4 - 2 1/2	A, P	DT	Y	Y	Y	Y	80 - 110	N	4.7	15 gauge; oil-less.
Spotnails HLB1516	444	1 1/8 - 2	S, AL	DT	Y	Y	Y	N	85 - 110	OPT	4.6	15 gauge.
Spotnails HLB1520	458	1 1/8 - 2 1/2	S, AL	DT	Y	Y	Y	N	85 - 110	OPT	4.8	15 gauge.
Spotnails KBA1654	312	1 1/4 - 2 1/2	A, ST	DT	Y	Y	Y	Y	70 - 120	OPT	5.3	15 gauge.
Woodtek 832392	270	1 - 2 1/2	A, ST	DT	Y	Y	Y	Y	80 - 100	N	7	15 gauge; case.
Airy ATH-0565T	418	1 - 2 1/2	A, ST	DT	Y	Y	Y	N	80 - 100	N	5.1	14 or 15 gauge.
Jamco JTA FN1464	380	1 1/4 - 2 1/2	A, AL	DT	Y	Y	Y	Y	70 - 110	N	5.4	14 or 15 gauge.

FINISH NAILERS = 15 OR 16 GAUGE

KEY: Magazine Type: S = straight, A = angled. Magazine Material: AL = aluminum, P = plastic, ST = steel. Safety System: 2 = 2 triggers, DT = depress tip on work surface, SL = safety lock. Y = yes. N = no. OPT = optional. — = not applicable. ▲

See page 144
for listing of manufacturers.

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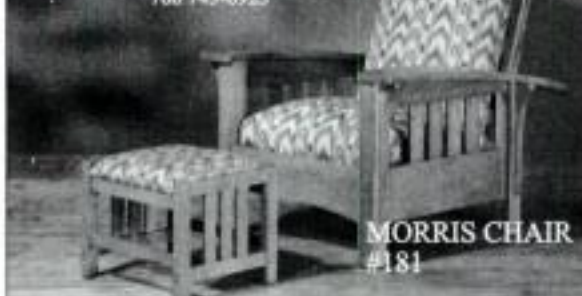
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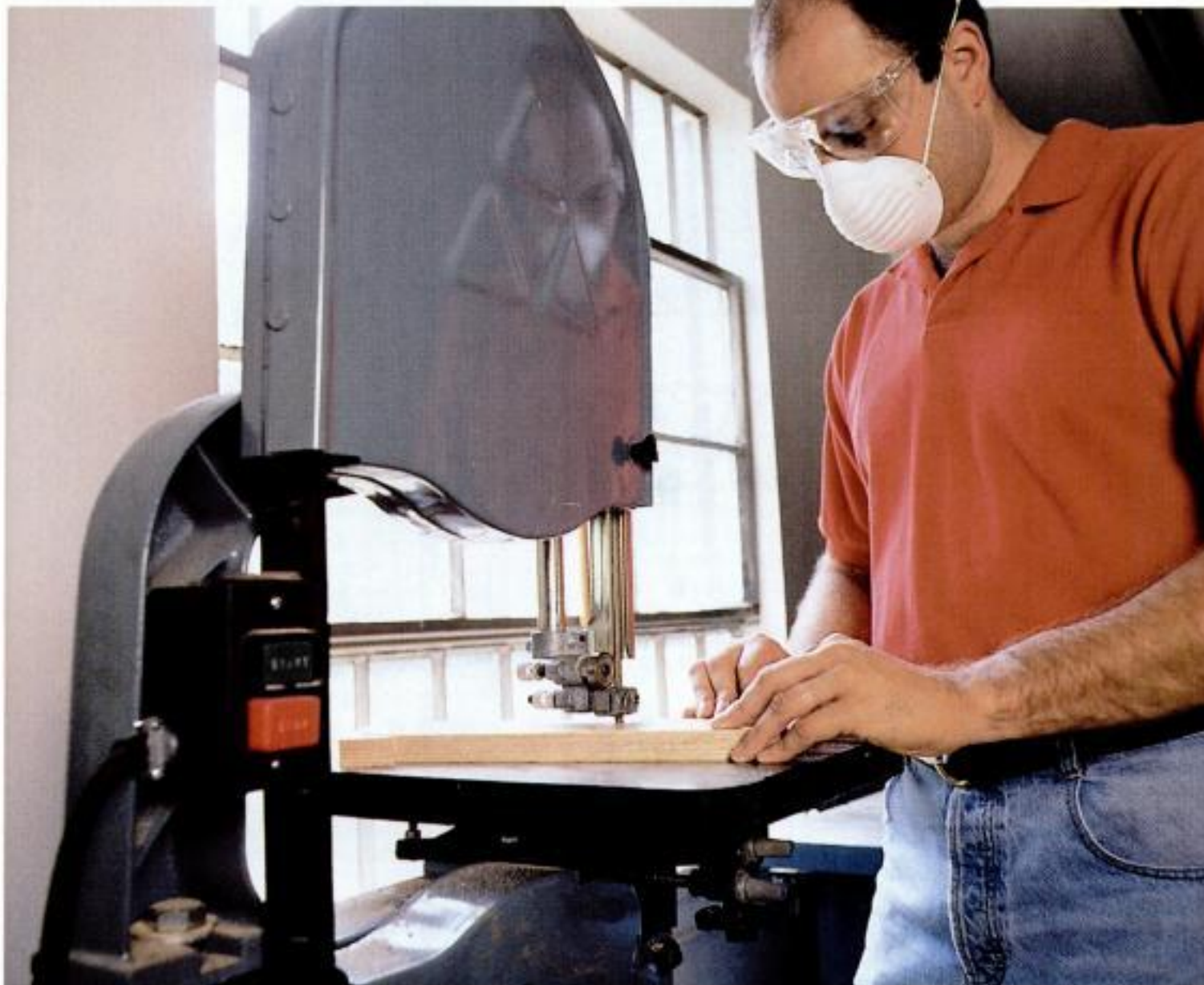
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With this combination, you can make almost anything out of wood. The most economical way to set up a dream workshop and at the same time, save space and money!

CIRCLE NO. 51 ON PRODUCT INFORMATION FORM

bandsaws



A machine with many uses. The bandsaw's ability to rip, crosscut, cut curves and resaw makes it a cornerstone of any well-equipped workshop.

the bandsaw is one of the most versatile cutting machines you can own. Its combination of control and stability make it the tool for cutting delicate curves in thick or thin stock, and for resawing wide stock into thinner boards or veneers. In addition, a bandsaw can rip and crosscut odd-shaped boards more safely than a tablesaw can.

Two-wheeled bandsaws are sized according to their wheel diameter. Throat capacity, the distance between the blade and the post that connects the upper and lower wheels, is always somewhat less than wheel diameter. A saw's throat capacity is the maximum width-of-cut the saw will handle.

3 types of bandsaws

BENCHTOP BANDSAWS

When budget or space limits you to a smaller saw, consider a benchtop model. Available in two-wheel (see photo, below) or three-wheel versions, benchtop bandsaws are usually lighter, less powerful and less expensive than floor models.

Benchtop saws excel at light-duty cutting and scrollwork—cutting intricate curves in thin stock.

However, this isn't the type to buy if you'll want to resaw wide boards, or if you'll be cutting large or long boards, especially hardwood.



FLOOR-MODEL BANDSAWS

Floor models are the real workhorses among bandsaws for a simple reason: You can do small work on a large bandsaw, but you can't tackle large work on a small one. Heavy-duty machines can accept narrow blades to make delicate cuts like the smaller benchtop saws. And with their heavier frames, larger throats and more powerful motors, these machines can also cut through thicker and denser stock. Mount a wide ($\frac{3}{8}$ -in. or wider) skip-tooth blade and you're set for resawing.

features to consider

Size and Power

For general-purpose work—cutting curves in stock of different thicknesses and occasional resawing—a medium-size floor model is a good choice, with a 12- to 16-in. wheel diameter and a $\frac{3}{4}$ - to 1-HP motor. If you'll be doing production work or heavy resawing, consider a larger 16-in., 18-in. or 20-in. model with a motor of at least 1½ HP.

Blade Guides

A bandsaw relies on guide assemblies to keep the blade on track. Blade guides have guide blocks that provide side support, and thrust bearings behind the blade that keep it from shifting or jumping off the wheels.

Upper blade guides are connected to a guide post that adjusts

up or down to accommodate different stock thicknesses; lower guides are fixed. Look for upper blade guides that remain parallel to the blade when locked in any position on the guide post.

There are two basic types of guide blocks: ball bearing and metal. (See photos, below.) Ball-bearing guides do a better job of supporting the blade than metal guides do, and among the ball-bearing guides, the European-style guides are easier to adjust than their American-style equivalents.

Metal guide blocks require more clearance on both sides of the blade, but they're inexpensive and easy to replace.

Frame Material

Rigid frames cut down on vibration and provide more support for blades. In general, cast-iron frames or welded, heavy-gauge steel frames are more rigid than aluminum frames.

3 types of blade guides

SOLID METAL



BALL BEARING



EURO-STYLE



Blocks and bearings. Solid metal guide blocks are simple in design and inexpensive, but they don't provide the blade support that's possible with guides that run on ball bearings. European-style ball-bearing guides are easier to adjust than American-style guides.

The Table

Choose a saw with a table that fits the way you work. A table that tilts in two directions instead of just one allows you to handle a larger variety of angled cuts, such as dovetails. Look for a smooth table-tilt adjustment where the table engages the trunnions. Also, check that the table locks securely at any angle without flexing.

Floor-model bandsaw



THREE-WHEEL BANDSAWS

These models track the blade around a third wheel, offering throat capacities comparable to larger two-wheelers.

But there are some disadvantages to the three-wheel design. The small-diameter wheels put more strain on blades, causing them to break more frequently. Keeping the blade properly tracked can also be more difficult than on two-wheel saws. With most three-wheel saws, maximum blade width is $\frac{3}{8}$ in.

Three-wheel saws are best for light-duty woodworking, and for cutting tight curves in wide stock.



Three-wheel bandsaw

options worth having

Cool Blocks®. These self-lubricating blocks replace the standard metal guide blocks. They can be set against the blade to eliminate twisting and provide a smoother cut.

Riser block. Increase your resaw capacity by 6 in. with this height attachment. The block bolts onto most 14-in. models and raises the upper wheel. Note that this accessory will require you to buy longer blades.

Extra blades. Have a narrow ($\frac{1}{8}$ -in.) blade on hand for cutting tight curves, as well as replacement blades for general-purpose cutting.

bandsaws

New models in red.



Delta 28-185



Pro-Tech 3203



Jet JWBS-14CS

See page 144
for listing of manufacturers.

Brand & Model	List Price	Size (in.)	Resaw Capacity (in.)	Table Tilt Left, Right (°)	Blade Guide Type	Maximum Blade Width (in.)	HP	Volts	Weight (lbs.)	Frame Material	Comments & Features
BENCHTOP											
Delta 28-185	\$219	8	5	4, 45	M	3/8	1/5	115	35	A	Micro Set® blade guide.
Black & Decker BS700	235	9	3 5/8	-2, 49	BB	3/8	1/3	115	26	A	Electronic variable speed control.
Craftsman 24458	180	9	3 1/2	0, 45	M	3/8	1/5	115	35	A	Cast-iron base; wheel brush.
Grizzly G1052	170	9	4 1/4	15, 45	BB	1/2	1/2	115	100	CI	Aluminum table.
Pro-Tech 3203	169	9	3 5/8	0, 45	M	3/8	1/3	115	31	A	Rack & pinion guide & trunnion.
Ryobi BS900	179	9	3 1/4	45, 45	M	3/8	1/3	115	30	A	Adj. miter guide, wheel brush.
Black & Decker 9443	305	10	3 7/8	0, 45	M	3/8	1/5	115	33	A	3-wheel saw.
Craftsman 24453	220	10	3	0, 45	M	1/4	1/5	115	32	A	3-wheel saw; variable speed.
Tradesman 8160A	149	10	3 7/8	5, 45	BB	3/8	1/5	115	36	A	6-in. sanding disc & table available.
Inca 340	795	10 1/2	6 1/2	0, 45	CB	1/2	3/4	115	75	A	
General 490	1,012	15	8	10, 45	M	3/4	—	—	210	CI	Motor not incl.; 1-pc. cast-iron frame.
Tradesman 8175	499	15	6 9/32	0, 45	BB	1/2	3/4	115	100	CI	3-wheel saw; sanding disc incl.
FLOOR MODELS											
Lobo BS-700	209	9	3 1/2	2, 50	BB	3/8	1/3	115	26	S	Worklight.
Delta 28-195	390	10	7	3, 48	CB	1/2	1/2	115	75	A	Lamp and miter gauge included.
Lobo BS-1000	169	10	5 1/2	0, 45	P	3/4	1/2	115	52	S	
Craftsman 24835	350	12	6	—	M	1/2	5/8	115	130	A	Head tilts 45° instead of table.
Delta 28-190	497	12	6	3, 45	M	1/2	1/2	115	120	A	Worklight.
Jet JWBS-120S	599	12	6	10, 45	P	1/2	1/2	115	145	CI	Hinged doors.
Bridgewood PBS-320	659	13	6 1/2	0, 45	M	1	1	230	143	S	Cast-iron wheels.
Laguna LT 13	795	13	6	45, 0	CB	3/4	3/4	115	170	S	
AMT 4113	299	14	6	0, 45	M	3/4	—	—	160	CI	Motor not incl.
Craftsman 24834	550	14	6	10, 45	N	3/4	3/4	115	195	CI	Cast-iron table, micro-adj. blade guides.
Delta 28-275	801	14	6 1/4	10, 45	M	3/4	3/4	115	201	CI	Micro-adj. blade guides.
Delta 28-280	1,076	14	6 1/4	10, 45	M	3/4	1	115	224	CI	Micro-adj. blade guides.
Grizzly G1019	300	14	6	10, 45	M	3/4	3/4	115/230	200	CI	Circle cutter; fence.
Jet JWBS-14CS	707	14	6	10, 45	P	3/4	1	115	185	CI	Micro-adj. top blade guides.
Jet JWBS-C14CS	879	14	6	10, 45	RB	3/4	1	115	188	CI	Carter bearing guides standard.
Jet JWBS-C14MW	919	14	6	10, 45	RB	3/4	1	115	197	CI	Carter bearing guides standard.
Jet JWBS-C14OS	779	14	6	10, 45	RB	3/4	3/4	115	175	CI	Carter bearing guides standard.
Jet JWBS-14MW	799	14	6	10, 45	P	3/4	1	115	194	CI	3 speeds.
Jet JWBS-14OS	607	14	6	10, 45	P	3/4	3/4	115	172	CI	Micro-adj. top blade guides.
North State WA-14M	450	14	6 1/4	10, 45	BB/M	3/4	1	115/230	250	CI	
Lobo BS-0143	329	14	6	10, 45	P	1/2	3/4	115	176	CI	3 speeds.
Powermatic 044	918	14	9	15, 45	BB	3/4	1	115/230	214	S	Push-button switch.
Powermatic 141	1,926	14	6 1/2	15, 45	BB	3/4	3/4	115/230	375	CI	1-piece, cast-iron frame.
Reliant DD90	300	14	5 3/4	10, 45	M	3/4	1	115/230	168	CI	4 speeds.
Tradesman 8157	359	14	6 1/4	10, 45	BB	1/2	1	115/230	162	CI	2 speeds; accessory rip fence.

KEY: Blade Guide Type: BB = ball bearing, CB = Cool Blocks®, CR = carbide, M = metal, N = nylon, P = plastic, RB = roller bearing. — = not applicable. **Frame Material:** CI = cast iron, S = steel, A = aluminum.

Chart continued on page 54.

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 Saw with enclosed stand,
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 blade. Model #34-445Z

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\$50 REBATE
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 Model #40-650

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Materiale protetto da copyright

bandsaws

New models in red.



Powermatic 141



Bridgewood PBS-440B



Grizzly G1012

Brand & Model	List Price	Size (in.)	Resaw Capacity (in.)	Table Tilt Left, Right (°)	Blade Guide Type	Maximum Blade Width (in.)	HP	Volts	Weight (lbs.)	Frame Material	Comments & Features
Transpower SB500	\$250	14	6	10, 45	BB	3/4	1	115	195	CI	3 speeds.
Hitachi CB75F	4,770	14 1/2	11 13/16	0, 45	BB, P	3	27/10	115	309	S	Stelite tip blade teeth.
Star S3501	370	14 1/2	6	10, 45	BB	1	3/4	115/230	185	CI	Opt. fence & 6-in. riser kit; 2 speeds.
Bridgewood BW-15BS	325	15	6	-10, 45	M	1	3/4	115	172	CI	2 speeds, motor mounts on frame.
General 490-1-M1	1,418	15	6 3/4	10, 45	M	3/4	3/4	115/230	300	CI	Solid 1-piece cast-iron frame.
Grizzly G1019Z	300	15	6	10, 45	M	3/4	3/4	115	185	CI	
Grizzly G1148	445	15	7 3/8	10, 45	M	3/4	3/4	115/230	164	S	2 speeds; micro-adj. blade guides.
Lobo BS-0153	349	15	6 1/4	10, 45	CB	1	3/4	115	82	S	3 speeds.
Euroshop B-16	1,395	16	10	5, 45	BB	1	2	230	288	S	Rack & pinion guide post.
Grizzly G1073	595	16	7 3/4	0, 45	M	1 1/2	1	115/230	450	CI	3 speeds; micro-adj. blade guides.
Laguna Tools LT 16	1,445	16	9	45, 5	BB	1	1 1/2	230	280	S	2 dust-collection ports.
Laguna Tools LT 16 SEC	1,745	16	12	45, 5	BB	1	2 1/2	230	280	S	Rack & pinion guide bar; ft. brake.
Lobo BS-0163	691	16	10	10, 45	CB	1	1 1/2	115/230	290	CI	3 speeds.
Reliant EE166	500	16	10 1/2	5, 45	M	1	1 1/2	115/230	286	CI	3 speeds.
Star S3502	565	16	9 1/2	10, 45	BB	1	1 1/2	115/230	235	CI	Includes rip fence; 3 speeds.
Transpower SB600	475	16	10 1/2	10, 45	BB	1	1 1/2	115	325	CI	3 speeds.
Bridgewood PBS-440B	1,695	18	9	5, 45	BB	1 3/16	2	230	395	S	Rack & pinion guide post.
Euroshop B-18	1,695	18	12	5, 45	BB	1	2 1/2	230	390	S	Rip fence included.
Grizzly G1012	695	18	9 1/2	0, 45	M	2	1 1/2	230	350	CI	3 speeds; magnetic switch.
Grizzly G4186	895	18	10	10, 45	BB	1	1 1/2	115/230	265	S	
Laguna Tools LT 18	2,195	18	12	45, 5	BB	1 3/8	3	230	400	S	Micro-adj. blade guides.
Laguna Tools LT 18 S	2,795	18	12	45, 5	BB	2	4 4/5	230	450	S	
Mini Max S-45	1,695	18	10	0, 45	BB	1	1 1/2	230	330	CI	Quick-set top guides; 3-phase opt.
Reliant DD18	630	18	9 3/4	5, 45	M	1 1/2	2	115/230	366	CI	3 speeds.
Transpower SB800	625	18	10 1/2	10, 45	BB	1 1/2	2	115/230	425	CI	3 speeds.
Delta 28-640	2,934	20	11	15, 45	BB	1	2	230	585	M	Cast-iron rip fence; ft. brake.
Delta 28-653	4,730	20	13 1/2	12, 45	M	1	3	230	786	M	2 speeds; ft. brake.
Delta 28-662	7,946	20	13 1/2	12, 45	M	1	3	230	972	M	Var. speed for metal or wood.
Euroshop B-20	1,895	20	13	5, 45	BB	1 1/4	3	230	458	S	Foot brake included.
General 390	3,200	20	12 1/4	10, 45	M	1	2	230	900	CI	
Grizzly G1258	1,295	20	12 3/8	0, 45	M	2	1 1/2	230	580	S	Micro-adj. blade guides.
Inca 710	1,695	20	8	45, 0	BB	1	1 1/2	115/230	160	A	3-wheel saw.
Jet JWBS-20-1	2,379	20	11 3/4	10, 45	CR	1	2	115/230	880	CI	Miter gauge; rip fence; ft. brake.
Jet JWBS-20-3	2,379	20	11 3/4	10, 45	CR	1	2	230/460	880	CI	Miter gauge; rip fence; ft. brake.
Seco SK-20BS	1,546	20	10 x 18	0, 45	BB	1	2	230	816	S	24-in. & 28-in. also avail.
Star S3506	1,195	20	12	10, 45	BB	1 1/2	3	115/230	600	S	Miter gauge; wheel brake; rip fence.
Woodtek 811709	1,825	20	12 1/2	0, 45	BB	1	2	230	727	S	Precision blade guides; ft. brake.

KEY: Blade Guide Type: BB = ball bearing, CB = Cool Blocks®, CR = carbide, M = metal, N = nylon, P = plastic, RB = roller bearing. — = not applicable. Frame Material: CI = cast iron, S = steel, A = aluminum.

See page 144 for listing of manufacturers.

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97366 6" vs sander w/case 149

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BN12518g 1-1/4" finish nail kit 99
NS10018g 1-1/4" crown splkr kit 99
NS150 18ga 1-1/2" finish splkr 169
FC350 2-3-1/2" clip hd nailer 289
FR350 2-3-1/2" full hd nailer 289
RN175 coil roof nailer 299
CF2400 2 hp oil free comp 329

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7810 tool triggered vacuum 269
556 plate jointer w/cs & fnc 139
360 3x24 sander with bag 214
362 4x24 sander with bag 229
360VS 3x24 vs belt sander 229
362VS 4x24 vs belt sander 239
9862 12v 3/8" dr kit w/2 bat 174
9872 14.4v drill kit w/2 bat 199
743K 7-1/4" 15 amp saw w/cs 129
843 LH 7-1/4" saw w/bk 144

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6931 plunge router base 84

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1634VSK vs recip saw kit 189
3107DVSK 5" rndm sdr kit 114
3107DVS dslts rdm orb sdr 99
3610K 14.4v 3/8" vsr 2/bat 194

11224VSR
7/8" Bulldog SDS
Rotary Hammer
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11304 Brute breaker hammer 1249
1194VSRK1/2" hmr drill w/cs 164
1276DVS 4x24 vs belt sander 219
1275DVS 3x24vs sdr w/bag 214
1274DVS 3x21 vs sdr w/bag 169
1615EVS 3-1/4hp vs plng rtr 289
1604 1-3/4 hp router 144

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DW625 3hp vs plunge router 279
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DW423K vs rndm sander w/cs 94
DW443 6" RA H&L rdm sdr 144
DW431 3"x21" vs belt sander 189

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6"x48" belt-disc sanders



Abrasive power. A belt-disc sander excels at a multitude of precision stock-removal tasks, such as truing compound-angled surfaces.

LEAD PHOTO BY JOHN HAMM

the belt-disc sander is a jack-of-all trades for abrasive work. One motor powers both a sanding disc and a belt to handle a wide variety of operations—everything from contouring a cabriole leg to refining a bevel angle.

The disc sander is great for sanding crisp angles. With a simple jig on the table, you can also sand circles that are perfectly round.

The belt sander is ideal for flattening and smoothing flat and convex surfaces. You can even use it to grind chisels and other edge tools. (*Caution: Grinding metal can ignite sawdust. First, vacuum your machine and the surrounding area carefully and disconnect dust-collection attachments.*)

2 types of sanders

FLOOR-MODEL SANDERS

These machines include bolt-on metal stands. The sanders vary greatly in price depending on construction and standard features. Models with 1-HP or larger motors are generally better for heavier production work.



BENCHTOP SANDERS

Most benchtop models are just as heavy, powerful and expensive as floor-model sanders; they are simply sold without stands.



features to consider

Size

All the machines listed in the chart on page 58 are sized to accept 6-in.-wide by 48-in.-long sanding belts. Among these sanders, disc diameter varies from 9 in. to 12 in. Larger discs allow you to sand larger surfaces, but keep in mind that only half of the disc is exposed and most sanding occurs on about one-quarter of the disc's total surface area.

Tables

Better sanders have two tables—one dedicated to the disc and one for the sanding belt. Look for sturdy cast-iron tables that are machined flat, with miter-gauge slots that are parallel to the sanding disc or belt platen. (See photo, bottom right.)

The table's semicircular supports, or *trunnions*, let you tilt the table for sanding at an angle. Trunnions should work smoothly and lock rigidly in place, without moving as the locking handles are tightened. Cast-iron trunnions are sturdier than sheet-metal ones.

Speed

Faster isn't necessarily better with these machines. Higher disc or belt speeds can leave burn marks on your work, particularly on end grain. To avoid burning at high speeds, use fresh sandpaper and a light touch.

Belt Tracking Controls

All belt-disc sanders have a tracking adjustment knob that you turn to center the sanding belt on the end rollers. However, not all models have a way to lock the tracking knob once it's set. A locking mechanism will help keep the belt from drifting off track while it's running.

Quick Belt Release

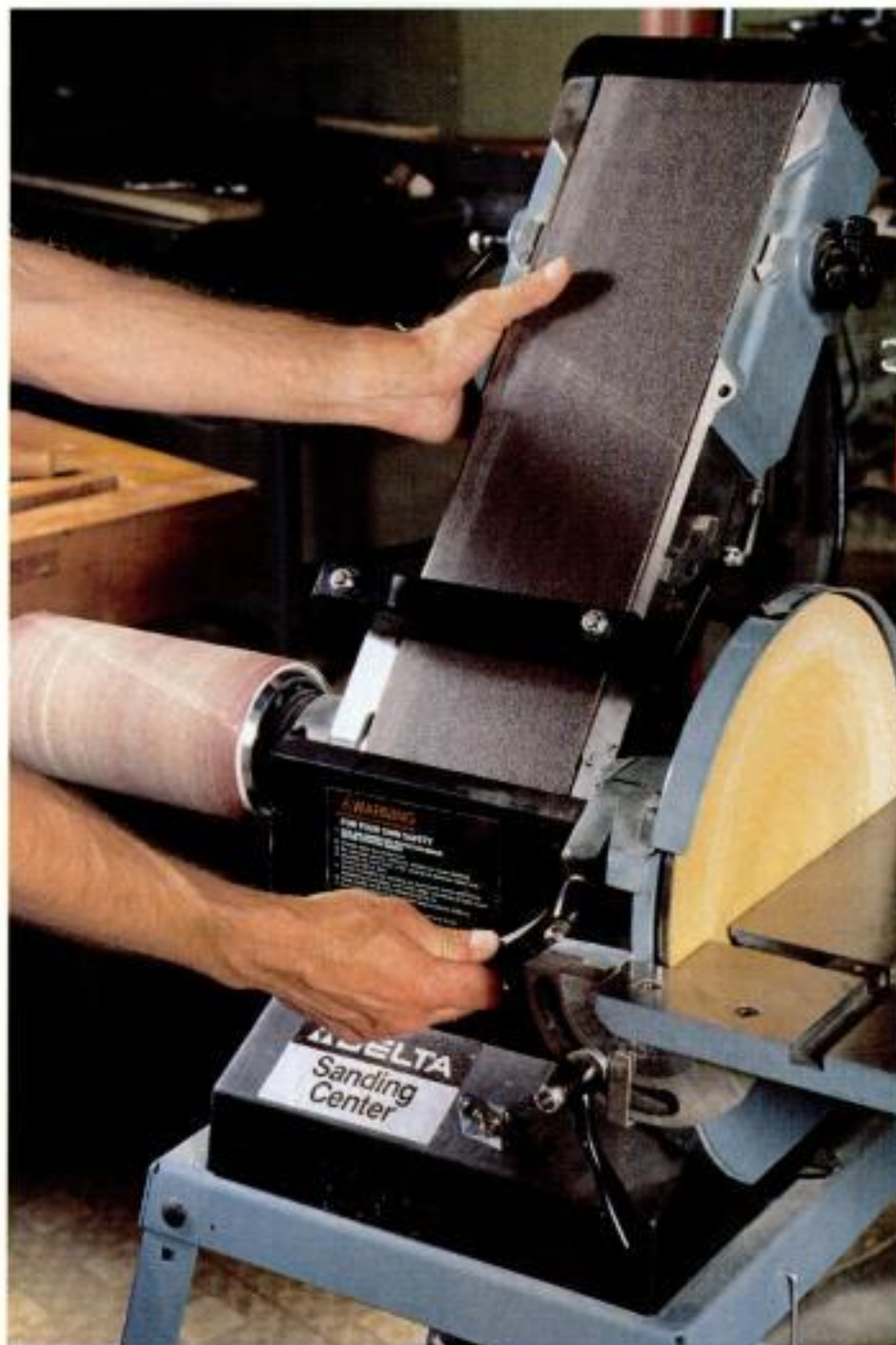
This time-saving feature lets you change the sanding belt without having to loosen and retighten a belt-tensioning screw.

Dust Collection

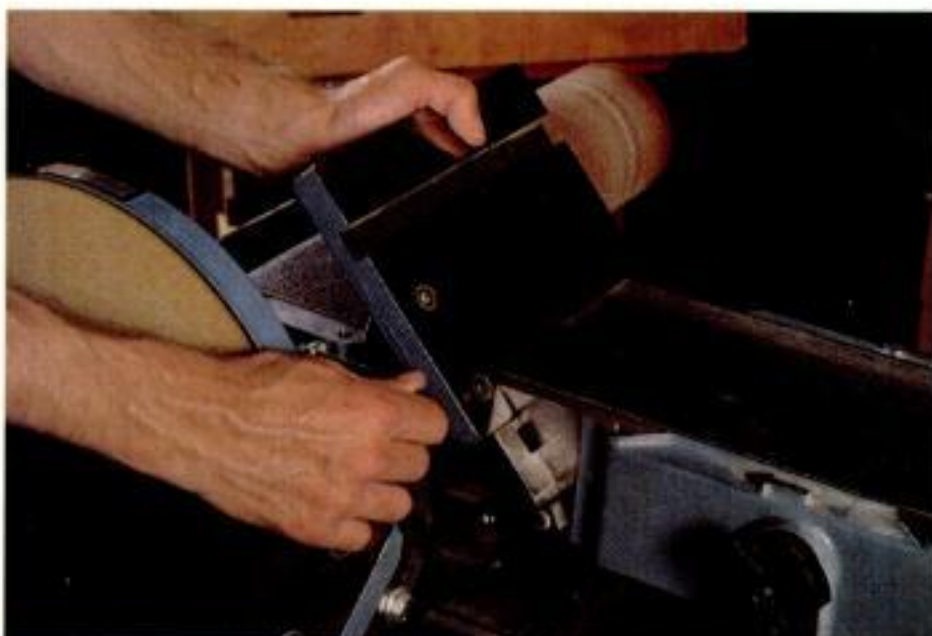
Belt-disc sanders generate enormous amounts of fine dust. It's inconvenient to turn on your dust collector every time you want to touch up a small piece of wood. However, if you occasionally do a lot of sanding or if you're planning on production work, a dust-collection port is a must.

Belt Position

On most models, you can position the belt sander horizontally or vertically—or somewhere in between. (See photo, top right.) This way, you can pick the best position for the job at hand.



Tilting belt. Some belt-disc sanders let you adjust the belt between horizontal and vertical positions.



Tilting table. On a quality belt-disc sander, well-machined cast tables and trunnions give solid support for sanding at a variety of different angles.

6" x 48" belt-disc sanders

New models in red.



Delta 31-695



Lobo SD-0069

See page 144
for listing of manufacturers.

	Brand & Model	List Price	Disc Diameter (in.)	Table Material, Number	Trunnion Material	Disc Speed (rpm)	Belt Speed (ft./min.)	HP	Quick Belt Release	Dust Collection Port	Weight (lbs.)
BENCHTOP	Powermatic 84	\$614	10	CI, 2	CI	2,000	2,500	1	Y	Y	120
	Grizzly G1183	399	12	CI, 2	A	3,450	5,000	1	Y	Y	155
	Grizzly G1276	435	12	CI, 2	A	1,725	2,500	1	Y	Y	155
	Jet JSG-6DC	999	12	CI, 2	CI	1,750	2,500	1 1/2	Y	Y	160
	Star S3502	375	12	CI, 2	CI	2,000	1,600	1 1/2	Y	Y	120
FLOOR MODELS	Belsaw MC-6/9BD	525	9	CI, 1	CI	1,725	2,100	3/4	Y	N	106
	Craftsman 22594	350	9	A, 1	CI	2,700	2,100	3/4	Y	Y	105
	Delta 31-695	441	9	A, 2	A	2,800	2,200	1	Y	Y	79
	Grizzly G1014Z	170	9	CI, 1	A	1,720	2,323	3/4	Y	Y	114
	Lobo SD-0069	249	9	CI, 1	CI	1,725	1,356	3/4	N	N	140
	Penn State S69-Q	230	9	A, 1	S	1,720	1,800	3/4	Y	Y	110
	Reliant DD79	200	9	CI, 2	CI	3,450	2,100	3/4	Y	N	115
	Star S3401	199	9	A, 1	S	2,700	2,100	3/4	Y	Y	110
	Star S3501	185	9	CI, 1	CI	2,700	2,100	3/4	Y	Y	110
	Total Shop 932	239	9	A, 1	S	1,725	2,350	3/4	N	Y	120
	Tradesman 8190	249	9	CI, 2	CI	1,725	2,100	3/4	N	OPT	104
	Woodtek 814253	269	9	CI, 1	CI	1,725	2,100	3/4	Y	Y	131
	Delta 31-280	1,012	12	CI, 2	CI	2,500	1,971	1 1/2	Y	Y	182
	Delta 31-730A	1,690	12	CI, 2	CI	2,100	3,030	1 1/2	Y	N	158
	Jet JSG-6	809	12	CI, 2	CI	1,725	2,500	1 1/2	Y	Y	150
	Lobo SD-0612	479	12	CI, 2	CI	1,800	2,323	1 1/2	Y	Y	180
	Powermatic 31	1,734	12	CI, 2	CI	2,400	2,850	1 1/2	Y	Y	308
	Reliant DD126	399	12	CI, 2	CI	2,000	1,576	1 1/2	Y	Y	145
	Star S3402	450	12	CI, 2	CI	2,000	1,576	1	Y	Y	199

KEY: Material: CI = cast iron, S = steel, A = aluminum. Y = yes. N = no. OPT = optional. — = not applicable.

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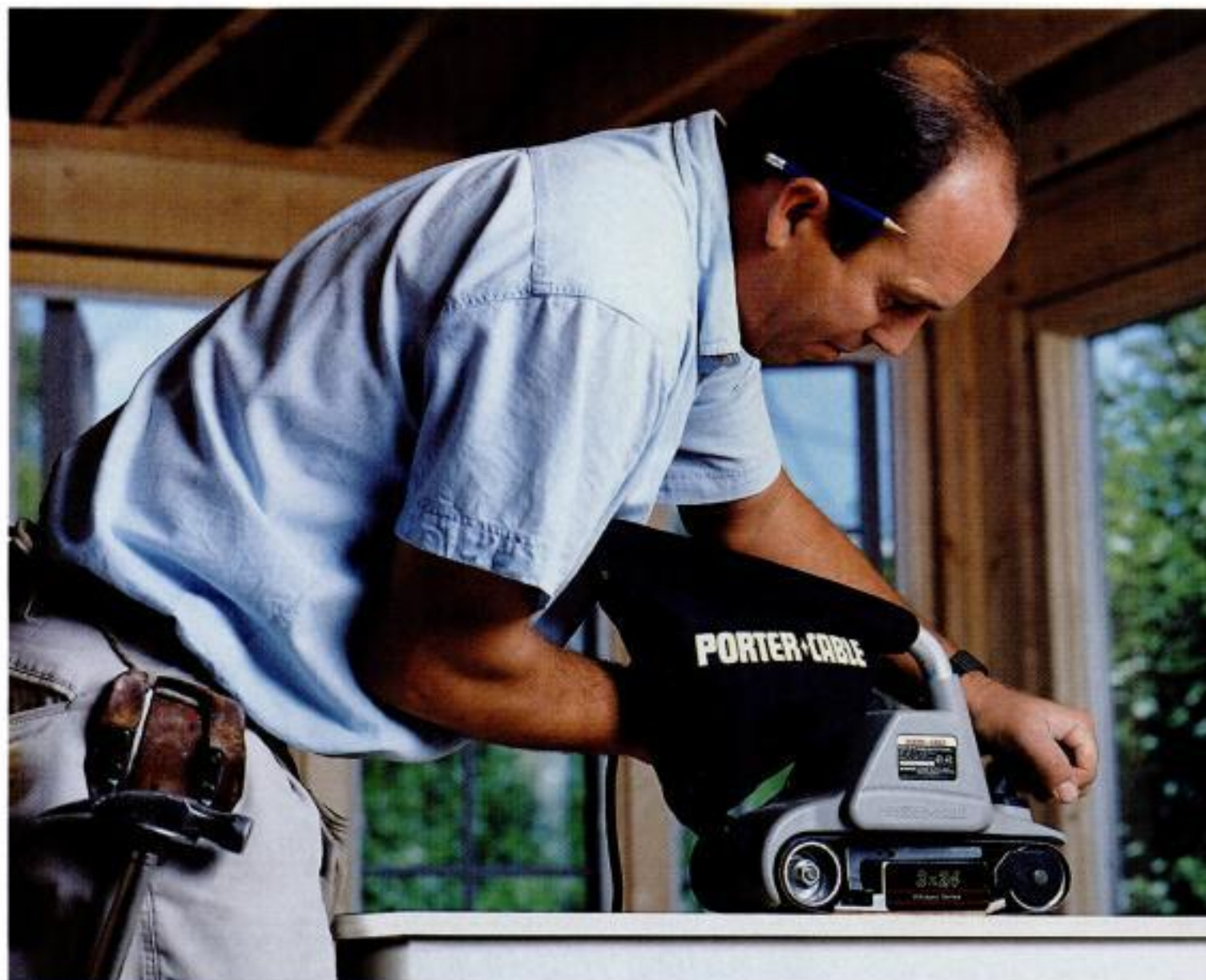
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belt sanders



Abrasive workhorse. Belt sanders excel at flattening panels and removing nicks and scratches.

fast stock removal is a belt-sander specialty. These tools are great for smoothing rough or uneven surfaces. They can also smooth troublesome figured woods without tearing the grain. In skilled hands, they're useful for shaping curves. Keep in mind, however, that belt-sanded surfaces usually require additional smoothing before finishing. Portable belt sanders can be mounted in accessory stands and used as benchtop sanders to shape small parts.

A belt sander's size is determined by the width and length of its belt. The most common belt sizes are 3 in. by 21 in., 3 in. by 24 in., and 4 in. by 24 in.

2 types of belt sand

IN-LINE BELT SANDERS

On an in-line sander, the motor is mounted parallel to the length of the sanding belt. The in-line design typically has a low profile and a low center of gravity. This makes the tool less prone to tipping.



features to consider

Weight

Belt sanders weigh in at anywhere from 4 to 16 lbs. When sanding horizontal surfaces, a heavier machine will usually apply all the downward pressure that's necessary. If you need to do much vertical sanding, buy a sander light enough to control comfortably.

Platen size

The size of the platen determines how much sandpaper actually contacts the work surface. (See photo, right.) Go for a large platen if you plan to use your sander for flattening wide boards or panels. Wider platens also make the sander less likely to tip.

Power

Once you decide on the size you want in a belt sander, it's smart to buy the tool with the most powerful motor. Look for a high amp rating, rather than high horsepower.

Variable speed

Variable speed allows you to slow down the belt, gaining extra control that's valuable when sanding veneer or small parts. Slower speeds also prevent burning the workpiece when using fine-grit belts.

Dust collection

No sander should be without a dust bag. Smaller bags won't obscure your view of the work or get in the way when you're sanding in tight spots, but they'll need to be emptied more frequently. For production work, buy a model that has a dust port for hookup to a shop vacuum.

Noise

With the exception of the new "Whisper" models from Porter-Cable, most belt sanders are very noisy. Plan on wearing ear protection.



Sanding surface. Larger platens put more of the belt surface in contact with the wood, for faster, flatter stock removal.



Bag the dust. Front- or rear-mounted bags are generally less obtrusive than side-mounted bags.

ers

TRANSVERSE BELT SANDERS

On this type of sander, the motor is mounted transversely—across the width of the machine and above the belt. Transverse sanders are somewhat easier to control than in-line models.



options worth having

Sanding frame. This accessory attaches to the sander and helps to avoid gouging or unevenness when sanding a surface flat. (See photo, right.) Sanding frames aren't available for all models. ►



Sander with accessory sanding frame

Bench-mount or inversion stand. Available for some models, this conversion accessory turns a portable belt sander into a small stationary model for sanding small workpieces. (See photo, right.) ►



Sander with stationary stand

Belts and belt cleaner. Finish faster by keeping a supply of different-grit belts to match the sanding assignment. Abrasive cleaner sticks extend a belt's working life by lifting out the sawdust, resin and dirt.

belt sanders

New models in red.



Bosch 1274DVS



Porter-Cable 503



Skil 7313



DeWalt DW431

	Brand & Model	List Price	Belt Width x Length (in.)	Belt Speed (ft./min.)	Amps	Platen Size (W x L)	Dust Collection	Weight (lbs.)	Comments & Features
IN-LINE	Black & Decker 7447	\$49	3 x 21	600	3.4	3 x 5	—	7	
	Bosch 1274DVS	326	3 x 21	550 - 1,100	6.6	3 x 5	DB	7.1	Graphite platen; removable front handle.
	Bosch 3270DVS	292	3 x 21	550 - 1,100	5	3 x 5	DB, VP	7.1	Removable front handle; sanding frame, stand avail.
	Bosch B7350	291	3 x 21	550 - 1,100	5	3 x 5	DB, VP	7.9	Removable front handle; sanding frame, stand avail.
	Metabo 0775	329	3 x 21	1,300	5.5	3 x 5	DB	11.5	
	Ryobi BE321	165	3 x 21	775 - 1,150	6	3 x 5 1/4	DB	8	Single-lever belt release, electronic variable speed.
	Skil HD7625	292	3 x 21	550 - 1,100	5	3 x 5	DB, VP	7.1	Removable front handle; sanding frame, stand avail.
	Porter-Cable 503	750	3 x 24	1,500	9	5 1/2 x 3	DB	15	Quick-release belt lever; includes dust bag.
	Porter-Cable 504	702	3 x 24	1,600	9	5 1/2 x 3	—	15.5	Belt-tracking knob.
	Makita 9030	364	1 1/8 x 21	3,280	4.2	NA	—	4	Designed for close, small work; adj. side handle.
TRANSVERSE	Skil 7313	101	3 x 18	700	4.5	3 x 5	DB	5.25	Auto-tracking belt control; quick-release belt lever.
	Wen 3600	60	3 x 18	1,000	4	3 x 5	VP	6.5	Manual tracking control.
	Black & Decker Quantum BD5500	189	3 x 21	600 - 950	5.2	3 x 5	DB, VP	8	Quick-release belt lever; soft-grip trigger.
	Craftsman 11712	60	3 x 21	1,100	4.7	3 1/2 x 5	—	7.75	Front auxiliary grip.
	Craftsman 11713	80	3 x 21	1,300	7	3 1/2 x 5	—	8.8	Quick-release belt lever; Memory Trac™.
	DeWalt DW430	300	3 x 21	1,100	5.2	3 x 4 3/4	DB	6.2	Automatic belt tensioning.
	DeWalt DW431	338	3 x 21	475 - 1,100	5.2	3 x 4 3/4	DB	6.2	Automatic belt tensioning; electronic variable speed.
	Hitachi SB75	297	3 x 21	1,475	8.7	4 1/4 x 5	DB	9.7	Quick-release belt lever.
	Makita 9900B	347	3 x 21	1,180	7.8	NA	DB	10	Replaceable platen.
	Makita 9901	282	3 x 21	1,246	6.7	NA	DB	7.7	Quick-release belt lever.
	Porter-Cable 351	306	3 x 21	1,300	7	4 3/4 x 3	DB	12	Quick-release belt lever; belt-tracking knob.
	Porter-Cable 352	318	3 x 21	1,300	7	4 3/4 x 3	DB	12.5	Quick-release belt lever; belt-tracking knob.
	Porter-Cable 352VS	327	3 x 21	850 - 1,300	7	4 3/4 x 3	DB	12.5	Belt-tracking knob; quick-release belt lever.
	Bosch 1275DVS	410	3 x 24	1,150 - 1,550	10.5	3 x 6	DB	12.5	Adj. front handle; replaceable wear inserts.
	Bosch B7360	382	3 x 24	1,150 - 1,550	10.5	3 x 6	DB, VP	13	Adj. front handle.
	Makita 9924DB	360	3 x 24	1,300	7.8	NA	DB	10.2	Quick-release belt lever.
	Porter-Cable 360	397	3 x 24	1,500	12	5 1/2 x 3	DB	14.5	Belt-tracking knob; quick-release belt changer.
	Porter-Cable 360VS	429	3 x 24	1,000 - 1,500	12	5 1/2 x 3	DB	14.5	Belt-tracking knob; quick-release belt lever.
	Porter-Cable 361	377	3 x 24	1,500	12	5 1/2 x 3	—	13.75	Quick-release belt lever.
	Craftsman 11792	110	4 x 21	1,300	7.5	4 1/2 x 5	DB	10.1	Quick-release belt lever; Memory Trac™.
	Bosch 1273DVS	415	4 x 24	1,150 - 1,550	10.5	4 x 6	DB, VP	14.8	Replaceable platen.
	Bosch 1276D	410	4 x 24	1,550	10.5	4 x 6	DB	13.5	Adj. front handle; sanding frame, stand optional.
	Bosch 1276DVS	443	4 x 24	1,150 - 1,550	10.5	4 x 6	DB	13.5	Adj. front handle; sanding frame, stand optional.
	Bosch B7455	425	4 x 24	1,550	10.5	4 x 6	DB, VP	13.8	Adj. front handle; sanding frame, stand optional.
	Hitachi SB10T	403	4 x 24	1,380	8.7	4 1/4 x 7	DB	11.7	Quick-release belt lever.
	Makita 9401	458	4 x 24	1,150	8.5	NA	DB	16	Replaceable platen.
	Milwaukee 5931	475	4 x 24	1,400	10	4 x 6 1/2	—	14.25	Includes 80-grit belt.
	Milwaukee 5936	495	4 x 24	1,400	10	4 x 6 1/2	DB	14.5	Quick-release belt lever; includes 80-grit belt.
	Porter-Cable 362	412	4 x 24	1,500	12	5 1/2 x 4	DB, VP	15.5	Belt-tracking knob; quick-release belt lever.
	Porter-Cable 362VS	446	4 x 24	1,000 - 1,500	12	5 1/2 x 4	DB	15.5	Belt-tracking knob; quick-release belt lever.
	Porter-Cable 363	392	4 x 24	1,500	12	5 1/2 x 4	DB	15	Belt-tracking knob; quick-release belt lever.

KEY: Dust Collection: DB = dust bag, VP = vacuum port. — = not applicable. NA = information not available.

See page 144 for listing of manufacturers.

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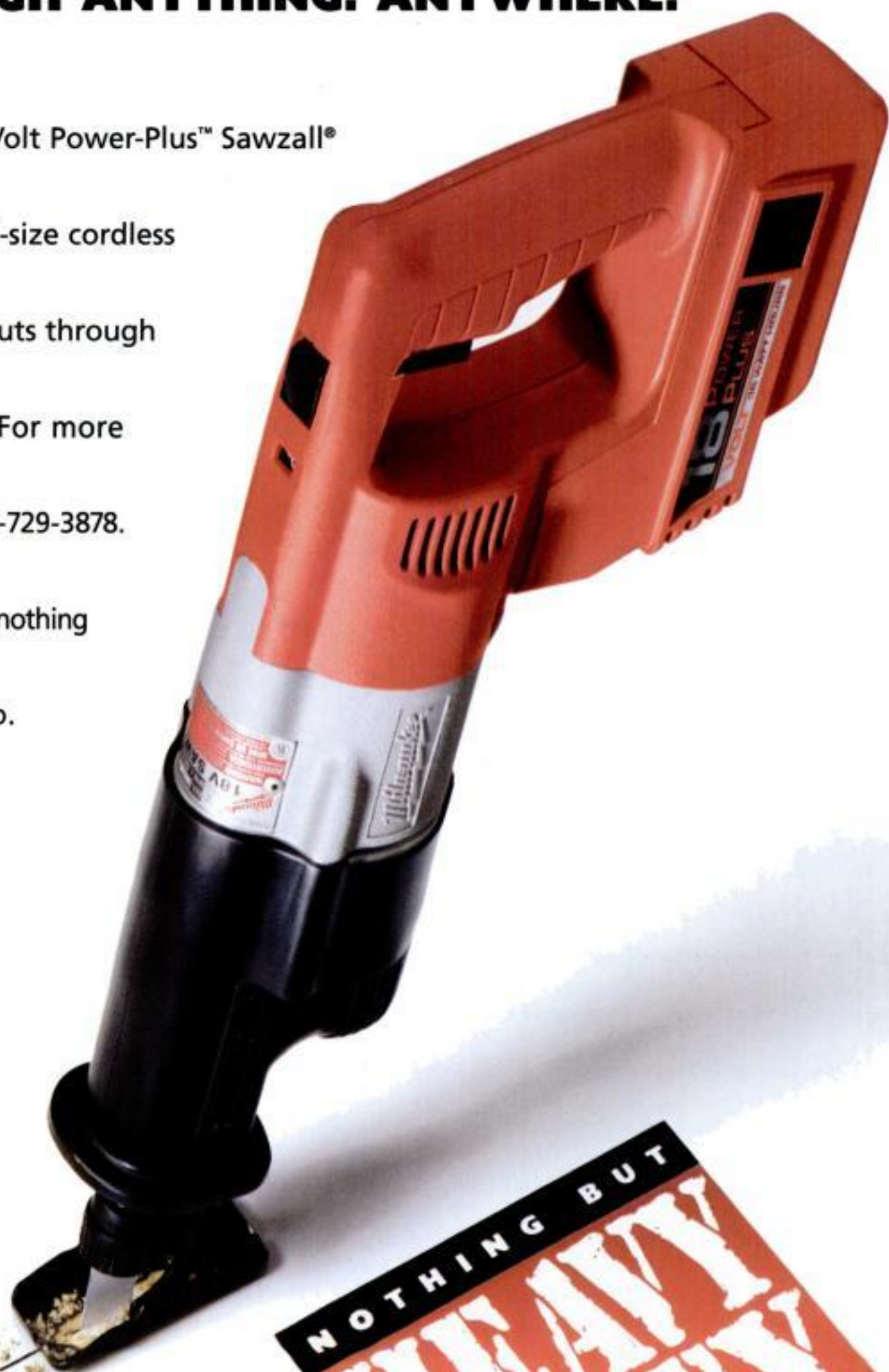
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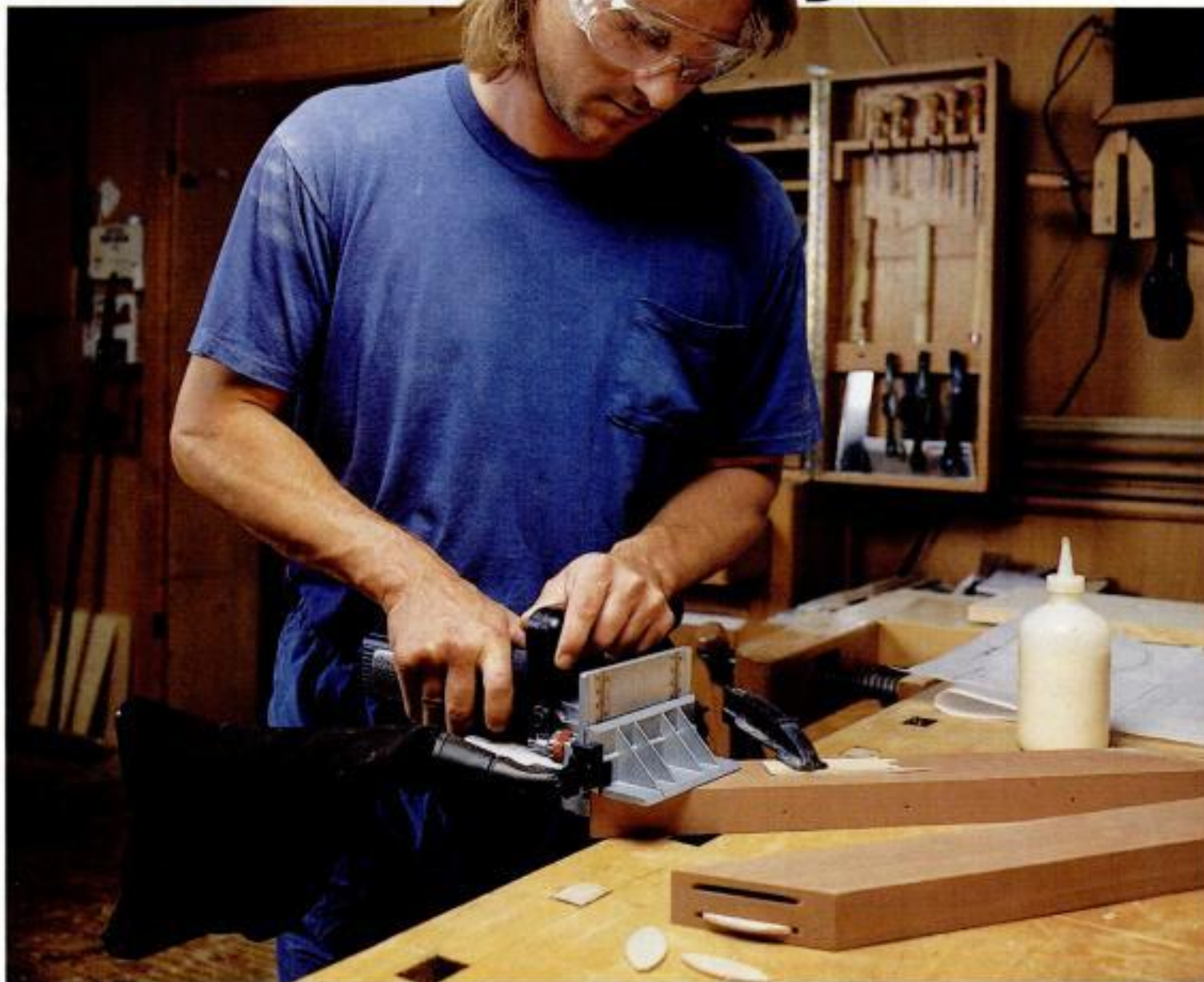
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biscuit joiners



Quick, strong joints. Biscuit joiners cut slots for flat, football-shaped biscuits of compressed wood. The biscuits swell when glued to make strong joints.

biscuit joinery is the fastest way to make strong mechanical joints in solid wood or man-made boards. To cut a biscuit joint, you plunge the tool's spinning cutter into the mating workpieces to make a pair of matching, arc-shaped slots. Then you glue in a flat, football-shaped "biscuit." Made from compressed wood, the biscuit swells from the glue's moisture to create a tight, strong joint.

Biscuit joiners are ideal for carcass joinery in man-made boards such as medium-density fiberboard and particle-board. They'll also make butt, corner and miter joints in framework and help align boards for edge gluing.

2 types of biscuit joiner

PORTABLE

Practically all the biscuit joiners on the market are portable, handheld models. These are the most popular because they're very versatile.

With a portable biscuit joiner, you place the tool on the workpiece. This means you can cut joints just about anywhere—

even in the middle of a panel face or a very large workpiece. But a portable model can be tiring to use if you're working with small stock in a production situation.



features to consider

Fence-Height Adjustment

Fence height is most easily adjusted using locking levers; Allen-screw mechanisms can be frustrating to use. The DeWalt's double rack-and-pinion mechanism keeps the fence parallel during adjustment.

Fence Construction

The best fences are made of machined aluminum. Plastic fences can flex in use, reducing slotting accuracy.

Depth-of-Cut Adjustment

All full-size biscuit joiners have a slot-cutting adjustment to accommodate the three common biscuit sizes: #0, #10 and #20. Some also cut deeper slots for oversized biscuits and special biscuit-shaped hardware and hinges. Ryobi's Detail Biscuit Joiner uses miniature biscuits in three sizes: $\frac{5}{8}$ in., $\frac{3}{4}$ in., and 1 in.

Slip Clutch

The slip clutch on the Lamello Classic and Top 10 models makes the blade stop if the cutter jams, reducing wear on the motor.

Dust Collection

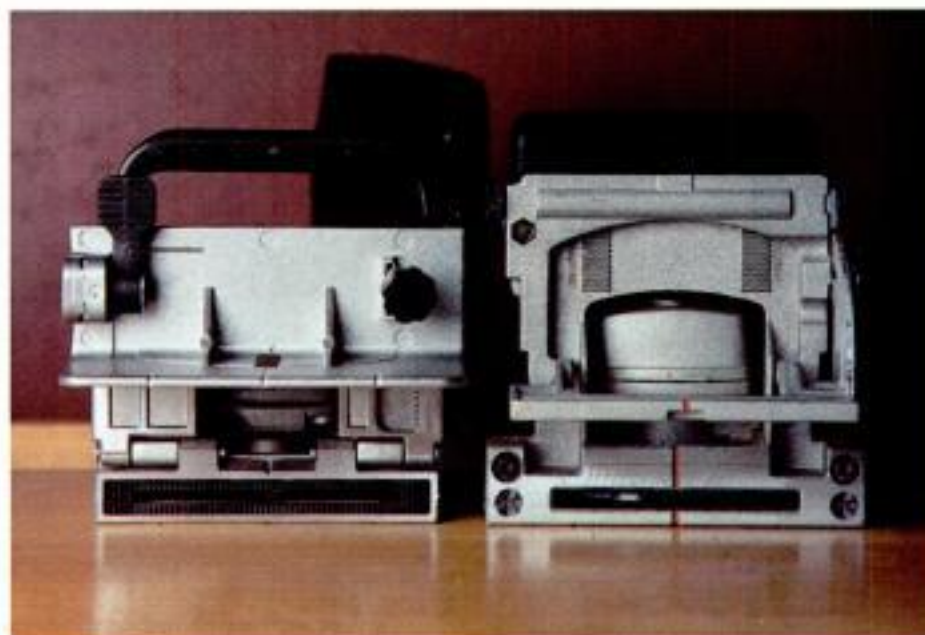
Most of these machines have a dust bag, but these tend to fill up quickly. Some models have a port to which you can connect an optional vacuum fitting—a good feature.

Cordless Cutting

If electrical cords bog you down, consider Lamello's 12-volt cordless biscuit joiner. ([See chart, page 66.](#))

Anti-Slip Devices

Most biscuit joiners use small retractable pins or rubber pads to keep the machine from slipping sideways as the blade bites into the wood. A full-width rubber pad works best, especially for gripping small workpieces. (See photo, below.)



Pads and pins. Full-face rubber pads like the one on the Makita (left) grip a workpiece best. The DeWalt (right) employs spring-loaded pins that press against the work.

fence-angle adjustment

Fences are either fixed or adjustable to allow for cutting slots in angled joints. (See photos, below.) Fixed fences will work on 90°, 45° and 135° angles. A biscuit joiner with a continuous protractor scale lets you set the fence to any angle within a given range. With this type of adjustable fence, you can join boards at odd angles. See the Fence-Angle Adjustment column in the chart on page 66.



Making miters. Left, a biscuit joiner with a fixed 45° fence registers against the inside face of the workpiece. Below, adjustable fences capture the beveled edge of the miter. This will align the outside corners of the workpiece when the joint is assembled.

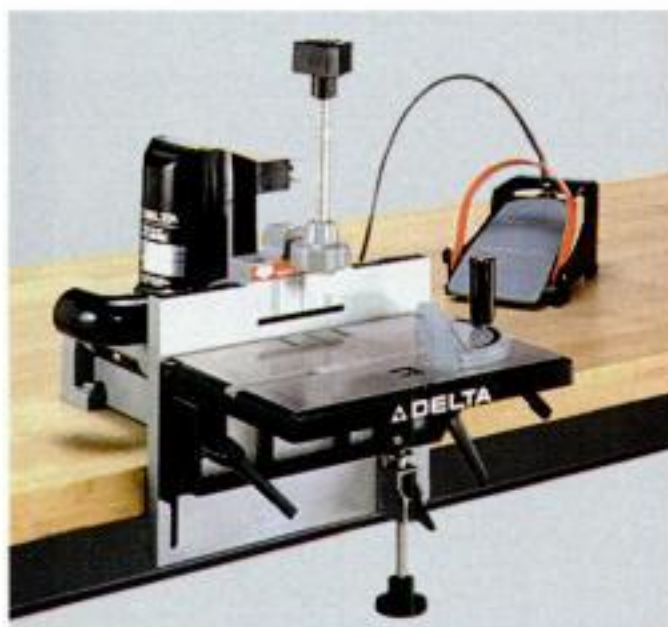


ners

BENCHTOP

With Delta's benchtop biscuit joiner (model 32-100), you handle the work instead of the machine. This is helpful for small, repetitive work. But feeding large panels can be awkward.

You register the workpiece against the fence and step on a foot pedal (shown at right in the photo) to drive the blade into the piece. The tabletop adjusts for height and tilt; it also accommodates a miter gauge, which is included.



biscuit joiners



Makita 3901



Ryobi DBJ50

Brand & Model	List Price	Fence Height Adjustment	Fence Angle Adjustment (°)	Fence Material	Depth Stops	Dust Collection	Anti-Slip Device	Amps	Comments & Features
Craftsman 17501	\$100	LL	Adj. 90 - 180	P	3	DB	RU	6	2-knob fence lock.
Craftsman 27730	210	RP	Adj. 90 - 180, notch for 45	A	4	DB, VP	RP	6.5	Rack & pinion fence height adj.
DeWalt DW682K	386	RP	Adj. 90 - 180, notch for 45	A	4	DB, VP	RP	6.5	Rack & pinion fence height adj.; case.
Freud JS100	334	LL	Fixed 90, 135	A	6	DB, VP	RU	5	Anti-kickback blade.
Freud JS102	355	LL	Fixed 90, 135, adj. 90 - 180	A	6	DB, VP	RU	5	Anti-kickback blade.
Jepson 7204	230	LL	Fixed 90, 135	A	3	DB	RP	6	Anti-kickback blade.
Lamello Classic	399	LL	Adj. 0 - 90	A	6	VP	RU	6.5	Slip clutch. (See text.)
Lamello Dynamic	525	LL	Adj. 0 - 90	A	6	DB	RU	—	12-V cordless; case, charger included.
Lamello Top 10	799	LL	Adj. 0 - 90	A	6	VP	RU	6.5	Slip clutch. (See text.)
Makita 3901	421	RP	Fixed 0, 45, 90	A	3	DB	RU	5.7	Case.
Porter-Cable 556	240	S	Adj. 0 - 90	A	3	—	RP	5	Vertical handle; 90° and 45° fence presets.
Practical Products CA-800	221	LL	Adj. 90 - 180; 15° notches from 0 - 90	A	6	DB, VP	RP	6	Tilt, height adjust independently; case.
Ryobi DBJ50	80	RP	Fixed 45, 90, 180	P	3	—	RU	3.5	Uses mini biscuits.
Ryobi JM-80K	100	LL	Adj. 0 - 135	A	4	DB	RU	6	Case.
Skil HD1605	182	S	Fixed 90, 135	P	3	DB, VP	RU	5	
Skil HD1606-02	241	LL	Adj. 0 - 90	P	3	DB, VP	RU	5	
Virutex AB-11C	265	LL	Adj. 90 - 180	A	3	VP	RU	6	Case.
Delta 32-100	362	LL	Adj. 90 - 135	A	3	VP	WC	10	Benchtop model.

KEY: Fence Height Adjustment: RP = rack and pinion, LL = locking levers, S = Allen screw. Fence Material: P = plastic, A = aluminum. Dust Collection: DB = dust bag, VP = vacuum port. — = not applicable. Anti-Slip Device: RP = retractable pins, RU = rubber, WC = work clamps.

See page 144 for listing of manufacturers.

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CIRCLE NO. 64 ON PRODUCT INFORMATION FORM

THE NEW RYOBI DETAIL BISCUIT JOINER

THE DIFFERENCE BETWEEN WOODWORKING AND WOODNOTWORKING.

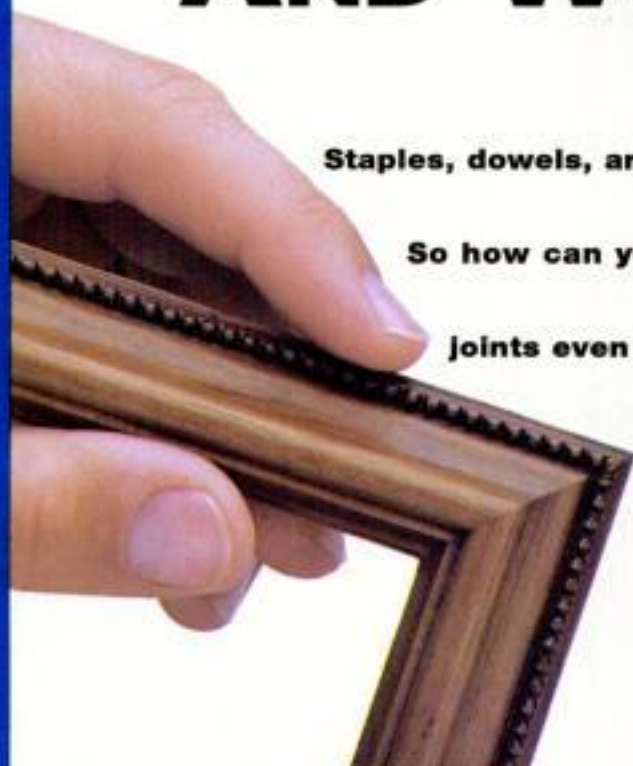
Staples, dowels, and glue won't do. Standard-size biscuits won't fit.

So how can you make neat, tight, professional joints even in small stock? With Ryobi's new

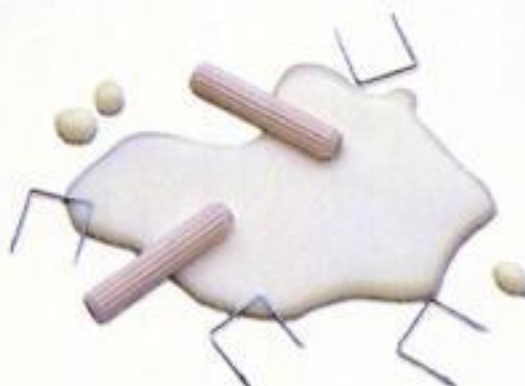
Detail Biscuit Joiner, that's how.



Standard biscuits stick out of small joints, and the mis-match shows, even after you trim the excess.



The new Ryobi Detail Biscuit Joiner uses miniature "Accu-biscuits" for neat, tight, professional joints.



This compact powerhouse cuts smaller slots and uses miniature "Accu-biscuits™" to fit where standard biscuits don't. And its price is as small as its biscuits. But the Detail Biscuit Joiner is big on performance, from its beefy motor to its die-cast

base and see-through fence. So see the

new Ryobi Detail Biscuit Joiner at your

local home center. It'll get

your wood working like

never before.



Ryobi "Accu-biscuits" (actual size).



The Ryobi Detail Biscuit Joiner does everything that a bigger tool does, and fits in small joints where a bigger tool won't.

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cordless drills



Power hungry. The cordless drill market is exploding, with more models that pack more power than ever before.

It's no surprise that cordless drills are one of the hottest power tools around. They can do anything corded models can, but offer unlimited freedom of movement around the shop or jobsite.

The big news in cordless drills is voltage. DeWalt, Sears, Black & Decker, Wagner and Ryobi all have 18-volt models, and Milwaukee plans to have one in early 1998. The 12- and 14.4-volt categories are exploding too. ([See chart, page 70.](#))

Meanwhile, the 9.6-volt roundup is shrinking.

Which cordless drill is right for you? With more than 100 models on the market, there are plenty of choices.

Power, ergonomics and price will probably be your most important considerations.

3 types of cordless

CONVENTIONAL DRILLS

Most cordless drills fall into this broad category, but few have precisely the same features. They range in power from the old 9.6-volt standard to 14- and 18-volt powerhouses that perform most of the tasks you'd expect from a plug-in drill. Beyond that, you're paying for convenience and ergonomics. (See Features, opposite.)



IMPACT DRIVERS

Impact drivers are for heavy, repetitive tasks like driving long screws and bolts. Drill chucks, if they're available, must be purchased separately. An impact driver applies several times the torque of a standard cordless drill in short, loud bursts. Most models have electronic brakes and 1/4-in., quick-disconnect hex chucks.



features to consider

Power

A drill powered by a 9.6-volt battery will do for many jobs, but for heavy-duty or extended work, you'll want at least 12-volt power. There are more 12- and 14-volters than ever before to choose from, as well as several 18-volt models.

Speed and Torque

The higher a drill's rated speed, the less torque it will deliver, and vice versa. Most models have two speeds, or two variable ranges, with more torque in the lower range. Variable speed is great for driving screws—you can start the screw slowly and speed up to drive it home.

Electronic Brake

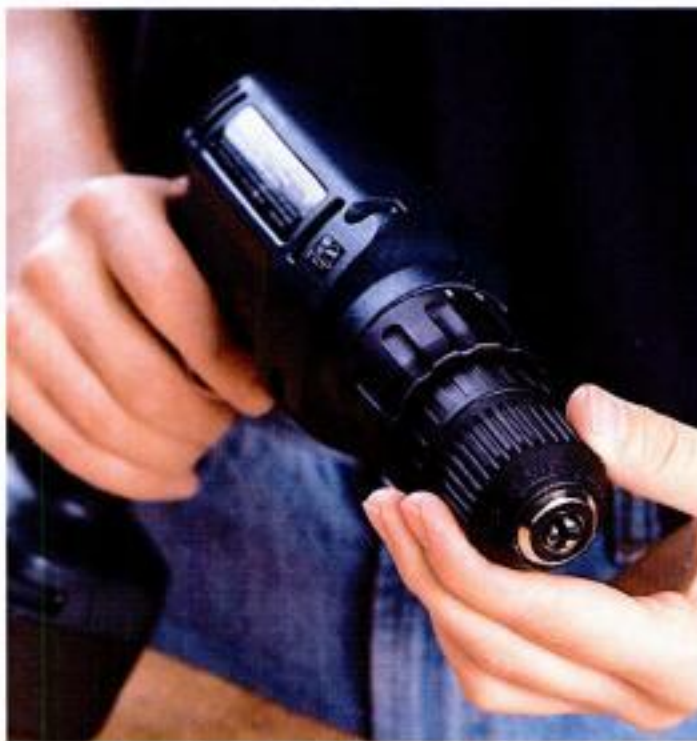
An electronic brake stops the chuck from spinning as soon as you release the trigger. This way, you don't have to pause before driving the next screw or changing bits.

Clutch

Adjustable clutches let you select the desired torque for driving screws to a precise depth. Black & Decker and DeWalt offer a Versa-Clutch® that engages the chuck only when you push on the bit. Electronic clutches, which are quiet, simply cut power to the drill when a particular torque is reached.

Chuck

Keyless chucks generally won't apply as much tightening force as keyed chucks, but they're much more convenient. Consider getting a keyed chuck if you often use large-diameter drill bits with small shanks.



No key required. A keyless chuck lets you tighten and loosen the chuck by hand.

Handle Style

Conventional drills come in two basic handle styles—pistol-grip and T-handle. (See photo, below.) With the pistol-grip design, you can grip high on the handle and push directly in line with the bit for stable, powerful drilling. But a pistol grip tends to be front-heavy. This can make one-handed aim and bit placement difficult.

A T-handle model is usually more compact, so it's better for use in awkward spaces. But it's harder to apply force directly in line with the bit.

Ergonomics

Regardless of handle style, a drill should feel good in your hand, even after extended use. Before you buy, visit a hardware store or home center to test several drills for weight, balance, handle size and convenience of controls.

drills

RIGHT-ANGLE DRILLS

Tight quarters are no problem for these drills. Compact but powerful, right-angle drills can't be beat for drilling holes or driving screws inside small cabinets or in other tight spots. A right-angle drill isn't meant to be your only cordless drill; it's a specialty tool.



Dueling drills. A T-handle model (left) is easier to balance and more compact. A pistol-grip (right) lets you push directly in line with the bit.

options worth having

Extra battery. This is the first accessory to buy. It lets you keep working when your first battery runs out of power.

Drill holster. These leather or canvas holders give you "quick-draw" capability that's very helpful on some jobs.

Fast charger. This type of charger, which comes standard on some drills, cuts charging time down to 10 or 15 minutes.

Carrying case. It's wise to invest in a case if your drill doesn't come with one. Many will accommodate the drill's charger and an extra battery.

cordless drills

New models in red.



Makita 6201DWHE



Metabo BEAT100/2 R+L



Porter-Cable 9830



Bosch 3612K

Brand & Model	List Price	Battery V	Fast Charge	Max. Rpm: Low, High Range*	Electronic Brake	No. of Clutch Settings**	Chuck Type, Cpy. (in.)	Handle Type	Weight (lbs.)	Comments & Features
Black & Decker PS3300	\$59	9.6	N	700	N	5	KL, 3/8	TH	3	Textured handle for better control.
Bosch 3109K	253	9.6	OPT	350, 1,000	Y	16	KL, 3/8	TH	3.5	Extra battery.
Craftsman 27184	100	9.6	N	600	N	4	KL, 3/8	PG	3.8	Storage case; built-in level.
Craftsman 27190	130	9.6	N	350, 1,000	Y	24	KL, 3/8	TH	3.8	2 high-cap. batteries; brake; case.
DeWalt DW952K-2	238	9.6	OPT	400, 1,100	Y	16	KL, 3/8	TH	3.7	Extra battery; case.
DeWalt DW961K-2	330	9.6	OPT	400, 1,200	Y	16	KL, 3/8	PG	3.9	Anti-slip grip.
Hitachi DS10DV2B	401	9.6	OPT	1,200	Y	22	KL, 3/8	TH	3.5	2-amp/hour battery.
Hitachi FDS10DVA	268	9.6	OPT	850	Y	5	KL, 3/8	TH	3.3	Extra battery.
Jepson 2416K	220	9.6	N	400, 1,100	N	5	KY, 3/8	PG	2.7	Electronic brake.
Jepson 2417VK2	297	9.6	Y	300, 1,100	N	6	KL, 3/8	TH	3.6	Extra battery; case.
Makita 6095DWE	329	9.6	OPT	400, 1,100	Y	12	KL, 3/8	PG	3.8	Extra battery.
Makita 6201DWHE	351	9.6	OPT	350, 1,100	Y	6	KL, 3/8	TH	3.7	2 high-cap. batteries.
Makita 6202DWG	390	9.6	OPT	350, 1,100	Y	6	KL, 3/8	TH	3.7	High-cap. power-display battery.
Makita 6221DWE	322	9.6	OPT	700	Y	6	KL, 3/8	TH	3.1	Extra battery.
Metabo BEA9.6/2 R+L	229	9.6	OPT	300, 900	Y	2	KL, 3/8	PG	3.6	Auxiliary side handle.
Metabo BEAT9.6/2 R+L	249	9.6	OPT	300, 900	Y	5+	KL, 3/8	PG	3.7	Auxiliary side handle.
Metabo BEAT100/2 R+L	309	9.6	OPT	300, 1,100	Y	9	KL, 3/8	PG	4.1	Auxiliary side handle.
Milwaukee 0406-1/6	300	9.6	N	350, 1,000	Y	5	KL, 3/8	PG	3.5	Extra battery; case.
Panasonic EY6181CQKW	292	9.6	Y	350, 1,000	Y	22	KL, 3/8	TH	3.3	Compact size; high-capacity battery.
Panasonic EY6181CRKW	307	9.6	OPT	350, 1,000	Y	22	KL, 3/8	TH	3.3	Compact; extra battery.
Panasonic EY6780EQK	374	9.6	Y	800	Y	22	HX, 1/4	TH	3.3	Corner Master design fits in tight spaces.
Porter-Cable 9830	266	9.6	Y	350, 1,250	Y	21	KL, 3/8	TH	4	2 high-cap. batteries; carrying case.
Ryobi CD95K	79	9.6	N	550	N	6	KL, 3/8	PG	3	Extra battery; case.
Ryobi CTH962K	119	9.6	Y	300, 1,000	Y	6	KL, 3/8	TH	3.3	Extra battery; case.
Ryobi HP961K	79	9.6	N	550	N	24	KL, 3/8	TH	3	Extra battery; case; level.
Skil 2375	106	9.6	N	700	N	5	KL, 3/8	PG	3.5	
Skil 2380-02	122	9.6	N	700	N	5	KL, 3/8	TH	3.5	Case; 1 battery.
Skil 2380-04	150	9.6	N	700	N	5	KL, 3/8	TH	3.5	Case; extra battery.
Skil HD2645-04	186	9.6	N	350, 1,000	N	16	KL, 3/8	TH	3.7	Extra battery.
Wagner WB96K	70	9.6	N	550	N	6	KL, 3/8	TH	3	3-hour charger; case.
Black & Decker PS3500	79	12	N	800	N	5	KL, 3/8	TH	3.3	
Bosch 3054VSRK	344	12	OPT	500, 1,100	Y	38	KL, 3/8	PG	4	Electronic clutch.
Bosch 3310K	339	12	OPT	400, 1,200	Y	16	KL, 3/8	TH	3.7	2 high-cap. batteries.
Bosch 3310K-10	394	12	Y	400, 1,200	Y	15	KL, 3/8	TH	3.7	Single sleeve chuck.
Craftsman 27139	160	12	N	350, 1,000	N	6	KL, 3/8	PG	4.2	Extra battery.
Craftsman 27196	170	12	N	350, 1,100	Y	24	KL, 3/8	TH	4.2	2 high-cap. batteries; brake; case.
DeWalt DW953K-2	296	12	OPT	400, 1,200	Y	16	KL, 3/8	TH	4	Fan-cooled motor; extra battery.
DeWalt DW971K-2	362	12	OPT	450, 1,400	Y	16	KL, 3/8	PG	4.2	Adjustable clutch.
DeWalt DW972K-2	362	12	OPT	450, 1,400	Y	16	KL, 3/8	TH	4.2	Anti-slip grip.
DeWalt DW974KQ	386	12	Y	450, 1,400	Y	24	KL, 3/8	TH	4.6	Versa-Clutch®. (See text.)
Hitachi DS13DV2B	444	12	OPT	1,200	Y	22	KL, 1/2	TH	4.2	2 2-amp/hr. batteries.
Makita 6011DWE-2	365	12	N	450, 1,350	Y	6	KL, 3/8	PG	4.2	Extra battery; charger; case.
Makita 6212DWG	412	12	N	370, 1,150	Y	6	KL, 3/8	TH	4	High-capacity power-display battery.

CONVENTIONAL DRILLS

KEY: Chuck Type: HX = hex, KL = keyless, KY = keyed.

Handle Type: PG = pistol-grip, SG = straight-grip, TH = T-handle.

— = not applicable. Y = yes. N = no. OPT = optional. *Speed ranges variable unless starred. **May include drill.

Chart continued on page 72.

See page 144 for listing of manufacturers.

WARNING HIGH POWER

14.4V
2.0 Ah

18 Torque
Settings

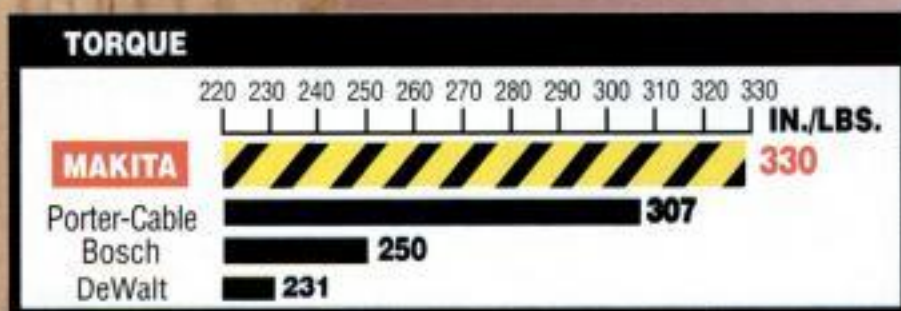
Keyless Chuck with
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feature for easy bit
installation

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Forward/Reverse
Switch operates from
both sides of tool

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Makita
Motor for high
performance

Externally
Accessible
Brushes
for easy
replacement

**CORDLESS FOR THE
LONG RUN**



Unlike other cordless drills on the market, the Makita is built to last. It features a Makita designed and manufactured motor for greater durability and externally replaceable carbon brushes for longer life – a Makita exclusive. In fact, the motor of this drill lasts almost five times longer than other industrial cordless drills. Add the power of our 14.4 volt, 2.0 Amp hour battery and you've got a drill that delivers the highest torque-to-run time in its class. With the lighter weight and overall ergonomic design you can work longer with less fatigue.

Durable. Tremendous torque. Longest run time. Low weight. Most Comfortable. Makita's 14.4V drill is definitely built for the "Long Run".

For more information, call 1-800-4-MAKITA

Competitive models tested: Bosch 3610/3610R, DeWalt DW991/DW991K, Porter Cable 872-9872.

**Model
6233DWAE**

Makita

IT'S ALL THE POWER YOU NEED®

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cordless drills

New models in red.



Milwaukee 0512-21



Porter-Cable 9872



Ryobi CD145K



Skil 2580-04

See page 144 for listing of manufacturers.

Brand & Model	List Price	Battery V	Fast Charge	Max. Rpm: Low, High Range*	Electronic Brake	No. of Clutch Settings**	Chuck Type, Cpy. (in.)	Handle Type	Weight (lbs.)	Comments & Features
Makita 6312DWG	\$432	12	N	370, 1,150	Y	6	KL, 1/2	TH	4.3	High-capacity power-display battery.
Metabo BEAT112/2 R+L	349	12	OPT	300, 1,100	Y	9+	KL, 1/2	PG	4.3	Auxiliary side handle.
Metabo BEAT12/2 R+L	295	12	OPT	300, 900	Y	5+	KL, 3/8	PG	3.9	Auxiliary side handle.
Metabo BEAT212/2 R+L	349	12	OPT	400, 1,400	Y	9+	KL, 1/2	PG	5	
Metabo SBEAT 212/2 R+L	369	12	OPT	400, 1,400	Y	5+	KL, 1/2	PG	5.4	
Milwaukee 0407-1/6	354	12	N	350, 1,000	Y	5	KL, 3/8	PG	3.8	Extra battery; charger; steel case.
Milwaukee 0415	374	12	N	350, 1,000	Y	5	KL, 3/8	PG	3.8	Anti-slip grip; extra battery.
Milwaukee 0431-1/6	385	12	N	600	Y	—	KL, 1/2	PG	5.6	Auxiliary side handle.
Milwaukee 0436-1/6	385	12	N	1,200	Y	—	KL, 3/8	PG	5.2	Auxiliary side handle.
Milwaukee 0501-21	465	12	Y	360, 1,100	Y	19	KL, 1/2	PG	4.3	Battery flips for clearance.
Milwaukee 0501-23	377	12	N	360, 1,100	Y	19	KL, 1/2	PG	4.3	Battery flips for clearance.
Milwaukee 0502-21	436	12	Y	360, 1,100	Y	19	KL, 3/8	TH	3.8	Battery flips for clearance.
Milwaukee 0502-23	356	12	N	360, 1,100	Y	19	KL, 3/8	TH	3.8	Battery flips for clearance.
Panasonic EY6100FQKW	324	12	Y	350, 1,300	Y	22	KL, 3/8	TH	3.8	Compact.
Panasonic EY6101FQKW	360	12	Y	350, 1,300	Y	22	KL, 1/2	TH	4.3	Compact.
Panasonic EY6101SQK	440	12	Y	350, 1,300	Y	22	KL, 1/2	TH	4.4	Battery capacity indicator.
Panasonic EY6901EQKW	430	12	Y	590, 2,000	Y	6	KL, 3/8	TH	4.2	
Porter-Cable 9852S	280	12	Y	350, 1,000	N	6	KY, 3/8	PG	4.5	Extra battery; rare earth magnet motor.
Porter-Cable 9853S	280	12	Y	350, 1,000	N	6	KL, 3/8	PG	4.5	
Porter-Cable 9862	366	12	Y	350, 1,250	Y	21	KL, 3/8	TH	4.3	2 high-cap. batteries; carrying case.
Ryobi CD125K	99	12	Y	300, 1,000	N	6	KL, 3/8	PG	3.6	Extra battery; case.
Ryobi CTH1202K	135	12	Y	300, 1,000	Y	6	KL, 3/8	TH	3.8	Extra battery; case.
Ryobi HP1201K	89	12	N	550	N	24	KL, 3/8	TH	3.5	Extra battery; case; level.
Skil 2475-02	137	12	N	700	N	5	KL, 3/8	PG	3.5	Case.
Skil 2480-02	156	12	N	700	N	5	KL, 3/8	TH	3.5	Case; 1 battery.
Skil 2480-04	176	12	N	700	N	5	KL, 3/8	TH	3.5	Case; extra battery
Skil HD2745-04	238	12	N	400, 1,200	Y	16	KL, 3/8	TH	4	Extra battery.
Wagner WB120K	90	12	N	550	N	6	KL, 3/8	TH	3.3	3-hour charger; case.
Black & Decker PS3600	99	14.4	N	800	Y	5	KL, 3/8	TH	3.8	
Bosch 3610K	371	14.4	OPT	450, 1,300	Y	16	KL, 3/8	TH	4.1	2 2-amp/hr. batteries; single sleeve chuck.
Bosch 3610K-10	436	14.4	Y	400, 1,200	Y	15	KL, 3/8	TH	4.2	Single sleeve chuck; 2-amp/hr. battery.
Bosch 3612K	384	14.4	OPT	400, 1,200	Y	15	KL, 1/2	TH	4	Single sleeve chuck, 2-amp/hr. battery.
Craftsman 27194	200	14.4	N	400, 1,400	Y	24	KL, 3/8	TH	4.5	2 high-cap. batteries; brake; case.
DeWalt DW991K-2	424	14.4	OPT	450, 1,400	Y	16	KL, 3/8	TH	4.9	Extra battery.
DeWalt DW994KQ	458	14.4	Y	450, 1,400	Y	24	KL, 1/2	TH	5.3	High-cap. battery.
Makita 6233DWAE	369	14.4	N	400, 1,300	Y	17	KL, 3/8	PG	4.4	
Makita 6333DWAE	379	14.4	N	400, 1,300	Y	17	KL, 1/2	PG	4.4	

CONVENTIONAL DRILLS

KEY: Chuck Type: HX = hex, KL = keyless, KY = keyed.
Handle Type: PG = pistol-grip, SG = straight-grip, TH = T-handle.
— = not applicable. Y = yes. N = no. OPT = optional. *Speed ranges variable unless starred. **May include drill.

Chart continued on page 74.

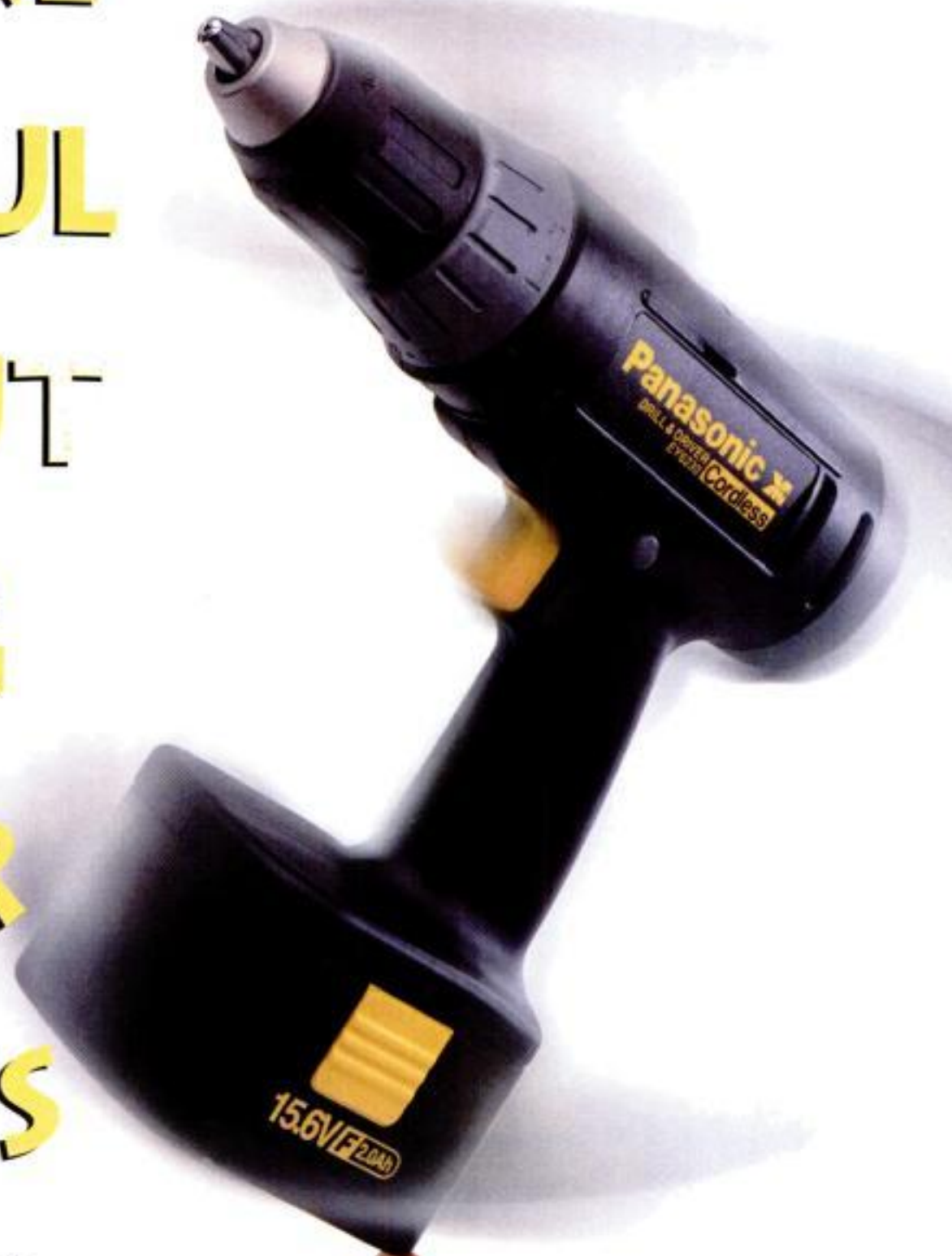
GET MORE POWERFUL WITHOUT LIFTING HEAVIER WEIGHTS

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the muscle to blow through
tough jobs in less time.**

Leave it to Panasonic to bring you a compact, ergonomic design that's easy on your hand. The high-capacity battery and quick charge time really let you fly. And with our commitment to quality, backed by a 30-Day Quality Satisfaction Guarantee*, you know it's made to last.

**Strengthen your productivity — and your reputation.
Call 1-800-338-0552 for your nearest dealer.**

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Panasonic®
CORDLESS POWER TOOLS



* 30-Day Quality Satisfaction Guarantee: If you are dissatisfied with any Panasonic cordless power tool for any reason, simply return it to the place of purchase with a dated proof of purchase in the original packaging with all accessories, parts and instructions within 30 days of the date of purchase for a full refund, or call Panasonic at (201) 392-6655. Abuse or misapplication of any power tool voids this guarantee.

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cordless drills

New models in red.



Black & Decker PS3700



DeWalt DW977K



Makita 6940DW

Brand & Model	List Price	Battery V	Fast Charge	Max. Rpm: Low, High Range*	Electronic Brake	No. of Clutch Settings**	Chuck Type, Cpy. (in.)	Handle Type	Weight (lbs.)	Comments & Features
Metabo BEAT214/2 R+L	\$408	14.4	OPT	400, 1,400	Y	9+	KL, 1/2	PG	5.2	
Metabo SBEAT 214/2 R+L	428	14.4	OPT	400, 1,400	Y	5+	KL, 1/2	PG	5.6	
Milwaukee 0511-21	415	14.4	N	450, 1,250	Y	19	KL, 1/2	PG	4.8	Reversible battery pack; extra batteries.
Milwaukee 0512-21	393	14.4	N	450, 1,250	Y	19	KL, 3/8	TH	3.8	Extra battery.
Milwaukee 0513-21	436	14.4	N	450, 1,250	Y	19	KL, 1/2	PG	5.3	Extra battery; hammer action.
Porter-Cable 9872	428	14.4	Y	450, 1,450	Y	21	KL, 3/8	TH	4.5	2 high-cap. batteries; carrying case.
Ryobi CD145K	150	14.4	Y	320, 1,150	N	6	KL, 3/8	PG	4	Extra battery; case; charger.
Ryobi CTH1442K	159	14.4	Y	320, 1,150	Y	6	KL, 3/8	TH	4	2 high-cap. batteries; case; charger; more.
Skil 2580-04	201	14.4	N	700	N	5	KL 3/8	TH	3.5	Extra battery; case.
Wagner PG144DK-2	199	14.4	N	300, 1,100	Y	6	KL, 3/8	TH	4.3	2 1.7-amp/hr. batteries.
Wagner WB144K	100	14.4	N	650	N	6	KL, 3/8	TH	3.6	3-hour charger; case.
Panasonic EY6230FQKW	400	15.6	Y	450, 1,400	Y	22	KL, 1/2	TH	4.9	Compact size; high torque.
Panasonic EY6930FQKW	460	15.6	Y	590, 2,000	Y	6	KL, 1/2	TH	5.1	
Black & Decker PS3700	129	18	N	850	N	5	KL, 3/8	TH	4.2	
Craftsman 27199	240	18	N	400, 1,400	Y	24	KL, 1/2	TH	5.5	Auxiliary handle; 2-amp/hr batteries.
DeWalt DW995	448	18	N	450, 1,400	Y	16	KL, 1/2	TH	5.6	Torque.
Milwaukee 0521-21	475	18	Y	60, 1,800	Y	19	KL, 1/2	PG	5.6	Battery flips for clearance.
Milwaukee 0522-21	470	18	Y	600, 1,800	Y	19	KL, 1/2	TH	5.6	Battery flips for clearance.
Ryobi CTH1802K	179	18	Y	400, 1,400	Y	24	KL, 1/2	TH	5.3	2 high-cap. batteries; case; level.
Wagner WB180K	150	18	N	650	N	6	KL, 3/8	TH	3.9	3-hour charger.
Bosch 3220K	339	9.6	OPT	2,200	Y	—	HX, 1/4	TH	3.5	
DeWalt DW967K	338	9.6	OPT	2,000	Y	—	HX, 1/4	TH	4.3	
Hitachi WH8DC2	379	9.6	OPT	2,200	Y	—	HX, 1/4	TH	3.1	694 in./lbs. torque.
Makita 6903VD	339	9.6	N	2,200	Y	—	HX, 1/4	TH	2.9	Angled grip; electronic brake.
Panasonic EY6588CQ	388	9.6	Y	2,200	Y	—	HX, 3/8	TH	3	Compact; lightweight.
DeWalt DW977K	388	12	OPT	2,000	Y	—	HX, 1/4	TH	4.6	Electronic clutch.
Hitachi WH12DC	435	12	OPT	2,000	Y	—	HX, 1/4	TH	3.7	781 in./lbs. torque.
Makita 6911DWH	418	12	N	1,800	Y	—	HX, 1/4	TH	4	High-capacity battery.
Makita 6911HDW	404	12	N	1,800	Y	—	HX, 1/2	TH	4	Charger; case.
Hitachi DN10DYK	370	9.6	OPT	800	Y	—	KL, 3/8	SG	2.9	Case.
Makita DA391D/DW	341	9.6	OPT	800	Y	—	KL, 3/8	SG	2.9	Plastic case.
Makita DA391DW	369	9.6	N	800	Y	—	KL, 3/8	—	2.9	Sold as kit.
Makita 6913DWH	488	12	Y	2,200	Y	—	HX, 1/4	TH	3.5	High-capacity battery w/power display.
Makita 6940DW	494	9.6	N	2,000	N	—	HX, 1/4	SG	3.3	Right-angle design; case & charger.
Milwaukee 0432	489	12	N	400, 900	Y	—	KL, 1/2	PG	7.8	Extra battery.
Milwaukee 0479	433	12	N	1,000	N	—	KL, 3/8	SG	3.8	55° angled head; charger.
Milwaukee 1108-21	537	18	N	500	N	—	KL, 1/2	DH	7.8	
Milwaukee 3108-21	665	18	N	335, 750	N	—	KL, 1/2	DH	10.8	Right-angle head.

KEY: Chuck Type: HX = hex, KL = keyless, KY = keyed. Handle Type: PG = pistol-grip, SG = straight-grip, TH = T-handle. — = not applicable. Y = yes. N = no. OPT = optional. *Speed ranges variable unless starred. **May include drill.

See page 144 for listing of manufacturers.

HITACHI® POWER TOOLS

The DS13DV2BH 12 Volt Cordless Drill Kit

PRECISION

THERE'S MORE TO DRILLING STRAIGHT THAN A STEADY HAND.

A 22 POSITION CLUTCH ALLOWS YOU TO ADJUST THE TORQUE TO FIT THE APPLICATION.

AND A STEPLESS VARIABLE SPEED TRIGGER PROVIDES TOTAL CONTROL WHEN WORKING WITH INTRICATE APPLICATIONS.

BUILT

TOUGHNESS COUNTS.

WE TOOK ADVANTAGE OF THE HIGHEST QUALITY DESIGN AND COMPONENTS TO BUILD A DRILL THAT WILL LAST.

A HIGH PERFORMANCE RARE EARTH MAGNET MOTOR WITH COOLING FAN KEEPS THE DRILL WORKING EVEN IN OVERLOAD SITUATIONS, AND A 1/2" CHUCK IS DESIGNED TO HANDLE THE MOST EXTREME INDUSTRIAL APPLICATIONS.

THE RESULT: A TOOL TOUGH ENOUGH TO DO THE JOB.

POWER

WORK SHOULDN'T HALT BECAUSE OF A DEAD DRILL.

A POWERFUL 12 VOLT BATTERY KEEPS YOU WORKING.

AND NOT JUST ANY BATTERY. A 2.0 AMP HOUR BATTERY - THE PRODUCT OF ADVANCED TECHNOLOGY - THAT PROVIDES 54% MORE RUN TIME.

WITH PLANETARY GEARS DELIVERING TORQUE, YOU'LL HAVE ALL THE POWER YOU NEED.

THE DRILL COMES WITH TWO BATTERIES, CHARGER AND CASE.

CALL
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FOR YOUR NEAREST
HITACHI POWER TOOL
DEALER.

SPECIAL OFFER FROM HITACHI!

When you buy our DS13DV2BH 12 volt cordless drill kit, we'll give you the drill holster absolutely FREE! That's a \$15 retail value. Call today . . . limited time offer while supplies last.

drill presses



The hole story. A drill press isn't just for drilling: It also cuts plugs, chops mortises, and powers a wide variety of accessories.

for precision drilling and boring, or for cutting accurately centered holes to precise angles and depths, nothing beats a drill press. This machine can also tackle mortising and drum sanding, and it can power a variety of specialty cutters—from plug cutters to rotary planers.

Most drill presses have a work table that adjusts up and down, and multiple speeds to cover many applications and materials. Most models also have a mechanism that lets you set a positive depth stop at any point in the downward stroke.

Drill-press size is typically expressed in terms of throat capacity, the distance between the column and the center of the chuck. A drill press with a 5-in. throat capacity can drill to the center of a 10-in.-wide workpiece.

3 types of drill presses

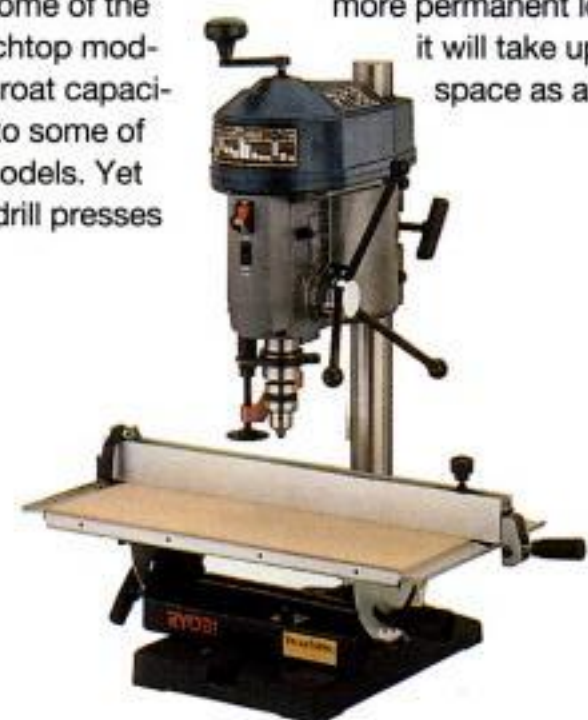
BENCHTOP DRILL PRESSES

If low price is important, a benchtop model is worth considering. But your capacity to handle large or tall work will be limited.

As shown in the chart on page 78, some of the larger benchtop models have throat capacities equal to some of the floor models. Yet benchtop drill presses

stand only 22 in. to 46 in. high.

Space is another consideration. You might consider lifting a smaller machine on and off your workbench. But a larger benchtop model will require a more permanent location, and it will take up the same space as a floor model.



features to consider

Speed Control

A standard five- or six-speed drill press is adequate for most operations. If you plan to do a lot of drum sanding, circle cutting or rosette work, consider a model with more speeds—this will help minimize burning and tearout. For metalworking, you'll want a low speed of about 250 to 300 rpm. Continuous variable speed control is more convenient than the standard procedure of changing the drive belts' positions on the pulleys. (See photo, near right.)

Quill Travel

Quill travel, or stroke length, describes just how deep a hole you can drill without changing the table height. This distance varies from 17/8 in. on the smallest benchtop model to 6 in. on the largest floor model. For drilling thick stock, you'll want a quill travel of 4 in. or more.

Work Table

A large table will provide support for oversize work and extra purchase for clamps and jigs. Many tables tilt by rotating on a pivot. To adjust table height, rack-and-pinion cranking mechanisms are preferable to raising a heavy cast table by hand. (See photo, top right.)

Hollow-Chisel Mortising

With a hollow-chisel mortising attachment fitted on your drill press, you can make square-edged mortises quickly and accurately. (See photo, right.) Some drill presses—especially the smaller ones—don't have the capacity to accept mortising attachments. Make sure yours can if you plan to use your drill press for mortising.



Simple speed control. A step-pulley system regulates spindle speed on most models.



Crank it up. A rack-and-pinion mechanism makes it easier to adjust heavy cast tables.



Easy mortises. A hollow-chisel mortising attachment can quickly make square-edged, flat-bottomed mortises.

options worth having

Sanding drums. A set of different-diameter drums lets you smooth all kinds of curved work.

Cross-slide vise. A vise is the safest way to hold small work. With its screw-controlled adjustments, this accessory for the work table makes it easy to precisely position your work or jig.

Mortising attachment. This cutting tool consists of a bit within a square, hollow chisel. As the tool plunges into the wood, the bit drills the hole and the chisel cleans up the corners and sides. (See bottom photo, above.) The result: a square-edged, flat-bottomed mortise.

▼ Radial Model



ses

FLOOR-MODEL DRILL PRESSES

A floor-model drill press is the first choice for most woodworkers. Despite its size, a freestanding press demands less space than most other stationary machines.

Floor-model drill presses are generally larger and more powerful than benchtop models, so they will handle mortising attachments and larger cutters like circle cutters and bits.

Floor models stand 52 to 76 in. high, with throat capacities of 6 1/4 to 15 in. (See chart.)



RADIAL DRILL PRESSES

These are the models of choice for chairmakers and others who drill a lot of angled or compound-angled holes.

On a radial drill press, the head—which includes the motor, quill and pulleys—is mounted on a horizontal tube, called a ram, that can move in and out and rotate in both directions. (See photo, right.) This way you can adjust the bit to bore at any angle you want.

Radial drill presses are great for angle boring. They can even tilt sideways for horizontal boring. And they have larger throat capacities than most standard models.

Both floor and benchtop models are available.

drill presses

New models in red.



Tradesman 8062



Craftsman 21317

Brand & Model	List Price	Throat Capacity (in.)	Chuck Capacity (in.)	Quill Travel (in.)	Spindle Speed (rpm)	Rack-and-Pinion Table Adjustment	HP	Weight (lbs.)	Comments & Features
AMT 5740	\$130	4	1/2	2	620 - 3,100	N	1/3	45	Built-in oscillating spindle sander.
Craftsman 21320	120	4	1/2	2	620 - 3,100	N	1/6	43	Table tilts.
Delta 11-950	156	4	1/2	2	620 - 3,100	N	1/4	49	Table tilts.
Grizzly G4014	80	4	1/2	1 7/8	620 - 3,100	N	1/3	50	
Jet JDP-8	193	4	1/2	2	620 - 3,100	N	1/6	42	
Pro-Tech 1201	119	4	1/2	2	690 - 3,000	N	1/4	40	Table tilts; depth stop.
Skil 3380	292	4	1/2	2	620 - 3,100	N	1/4	47	Bit and chuck key storage.
Tradesman 8050	119	4	1/2	2	620 - 3,100	N	1/4	54	5 speeds; table tilts; 3-in. vise incl., switch up front.
Reliant JJDP3	100	4 3/32	1/2	1 7/8	700 - 3,000	N	1/4	53	
Craftsman 21324	180	5	1/2	2 3/8	480 - 3,000	Y	1/4	64	Includes 4 drill bits; depth stop.
Delta 11-980	195	5	1/2	2 1/4	620 - 3,100	Y	1/4	72	Table tilts.
Jet JDP-10	223	5	1/2	2 1/2	540 - 3,600	N	1/3	70	Table tilts.
Ryobi DP100	160	5	1/2	2 3/8	540 - 3,600	Y	1/4	68	Table tilts.
Tradesman 8062	129	5	1/2	2	620 - 3,100	N	1/4	59	5 speeds; 3-in. vise included; switch up front.
Delta 11-990	237	6	1/2	2	620 - 3,100	Y	1/3	71	Table tilts.
Tradesman 8065	189	6	1/2	2 1/4	620 - 3,100	Y	1/2	80	5 speeds; table tilts.
Reliant DD50	160	6 1/2	1/2	3	700 - 3,000	Y	1/3	143	Table tilts.
Skil HD 3580	456	6 1/2	5/8	3 3/8	500 - 3,100	Y	1/3	102	Fence; bit and chuck key storage.
Star 54016	185	6 1/2	5/8	3	195 - 3,000	Y	1/2	95	Table tilts.
Penn State DPT	180	6 3/4	5/8	3 1/8	600 - 3,720	Y	1/2	110	Worklight; square table; depth stop.
Transpower DP130	165	6 3/4	1/2	3 1/8	500 - 3,760	Y	1/2	99	Table tilts.
Bridgewood BW-1412B	239	7	1/2	3 5/16	480 - 2,120	Y	1/2	138	Table tilts, rotates.
Grizzly G1199	239	7	5/8	3	250 - 3,100	Y	1/2	140	Table tilts.
Grizzly G4008	160	7	5/8	3 1/4	250 - 3,000	Y	1/2	155	Mortising attachment available.
Jet JDP-14J	343	7	1/2	3 3/8	460 - 2,500	Y	1/2	132	Table tilts; worklight.
Jet JDP-14M	399	7	5/8	3 1/4	200 - 3,630	Y	1/2	132	Table tilts; worklight.
Powermatic 1140-A	418	7	1/2	3 1/8	280 - 3,280	Y	3/4	150	
Tradesman 8075	199	7	5/8	3 3/8	195 - 3,630	Y	1/2	121	16 speeds; square table tilts; switch up front.
General 34-02	760	7 1/2	1/2	4 1/2	460 - 4,910	N	—	110	Motor not included.
General 34-02-M1	989	7 1/2	1/2	4 1/2	460 - 4,910	N	3/4	200	Split head to adjust quill.
Black & Decker DP600	235	8	1/2	4	620 - 3,100	N	1/4	54	5 speeds; sanding insert.
Woodtek 829785	99	8	1/2	2	620 - 3,100	N	1/4	40	Table tilts.
Ryobi WDP1850	550	9 1/4	1/2	3 1/3	500 - 3,000*	Y	1/4	134	Table tilts; fence.

KEY: — = not applicable. NA = information not available. Y = yes, N = no. *Model has continuous variable speed.

See page 144 for listing of manufacturers.

Brand & Model	List Price	Throat Capacity (in.)	Chuck Capacity (in.)	Quill Travel (in.)	Spindle Speed (rpm)	Rack-and-Pinion Table Adjustment	HP	Weight (lbs.)	Comments & Features
FLOOR MODELS									
AMT 4562	\$199	6 1/4	5/8	3 1/4	250 - 2,800	Y	3/4	106	Worklight.
Star 54017	220	6 1/2	5/8	3	195 - 3,000	Y	1/2	125	Table tilts.
Penn State DPF	220	6 3/4	5/8	3 1/8	600 - 3,720	Y	1/2	128	Worklight; square table; depth stop.
Transpower RX160	195	6 3/4	5/8	3 1/8	300 - 3,700	Y	3/4	130	Table tilts.
Delta 14-070	395	7	5/8	3 21/64	250 - 3,000	Y	1/2	157	Table tilts.
Grizzly G1200	300	7	5/8	3	250 - 3,100	Y	1/2	150	Table tilts.
Grizzly G4009	200	7	5/8	3 1/4	250 - 3,000	Y	1/2	155	Mortising attachment available.
Jet JDP-14JF	412	7	1/2	3 3/8	460 - 2,500	Y	1/2	156	Table tilts; worklight.
Jet JDP-14MF	455	7	1/2	3 1/4	200 - 3,630	Y	3/4	167	Table tilts; worklight.
Powermatic 1140-A	454	7	1/2	3 1/8	280 - 3,280	Y	3/4	170	Depth stop w/threaded rod & lock nuts.
Tradesman 8100	249	7	5/8	3 3/8	195 - 3,630	Y	3/4	142	16 speeds; table tilts.
Craftsman 21315	300	7 1/2	5/8	3 1/4	250 - 3,100	Y	1/2	154	Table tilts.
General 34-01-M1	760	7 1/2	1/2	4 1/2	460 - 4,910	N	3/4	200	
Powermatic 1150-A	2,681	7 1/2	1/2	6	475 - 4,800*	Y	1	325	
Lobo DP-016F	249	8	5/8	3 1/2	240 - 3,800	Y	3/4	135	T-slot in table.
Delta 17-900	490	8 1/4	1/2	3 21/64	250 - 3,000	Y	3/4	194	Table tilts.
Tradesman 8105	349	8 1/4	5/8	3 1/2	250 - 3,000	Y	3/4	183	12 speeds; table tilts.
Bridgewood BW-1758FA	329	8 1/2	5/8	3 1/8	350 - 3,900	Y	3/4	172	Table tilts.
Craftsman 21317	400	8 1/2	5/8	3 1/4	200 - 3,630	Y	3/4	195	Table tilts; worklight.
Jet JDP-17MF	477	8 1/2	1/2	4 3/8	200 - 3,630	Y	3/4	189	Worklight.
Powermatic 1170	514	8 1/2	5/8	3 1/4	190 - 3,500	Y	1	195	Depth stop w/threaded rod & lock nuts; worklight.
Reliant DD55	270	8 1/2	5/8	3 1/4	340 - 2,800	Y	3/4	194	Table tilts.
Transpower RX180	225	8 1/2	5/8	3 5/16	240 - 3,800	Y	1	178	Worklight.
Grizzly G1201	475	9	5/8	5	150 - 2,470	Y	3/4	300	#3 Morse taper spindle; worklight.
Craftsman 21321	600	10	3/4	4 1/4	150 - 4,200	Y	1	319	Oversize table.
Jet JDP-20MF	871	10 1/4	3/4	4 5/8	150 - 4,200	Y	1 1/2	288	Table tilts; worklight.
Jet JDP-14SL	279	14	1/2	3 1/4	250 - 3,100	Y	1/3	130	Table tilts.
General 34-01	989	15	1/2	4 1/2	460 - 4,910	N	3/4	200	Split head to adjust quill.
Woodtek 816805	379	16 1/2	5/8	3 1/4	250 - 3,000	Y	3/4	165	Table tilts.
Lobo DP-186F	349	17	5/8	3 1/2	190 - 2,640	Y	3/4	170	
Woodtek 816812	699	21	5/8	4 13/16	180 - 4,200	Y	1	346	Table tilts; free mortising attachment.
RADIAL MODELS									
Grizzly G5046	249	13	1/2	4	620 - 3,100	N	1/4	65	
Tradesman 8090	199	13	1/2	4	620 - 3,100	N	1/4	62	Head tilts 45°L/90°R.
Delta 11-090	417	16	1/2	3 3/8	580 - 3,450	N	1/3	82	Head tilts 90°L/45°R.
AMT 4910	324	17	1/2	3 5/16	540 - 3,600	Y	1/3	90	Head tilts 90°L/45°R.
AMT 5171	429	17 1/8	5/8	3 5/16	250 - 3,100	Y	1	120	Head tilts 90°L/45°R.
AMT 5175	499	17 1/8	5/8	3 5/16	250 - 3,100	Y	1	165	Head tilts 90°L/45°R.
Craftsman 21333	500	17 1/8	5/8	3 5/16	250 - 3,100	Y	1	161	Head tilts 90°L/45°R.
Craftsman 21334	300	17 1/8	1/2	3 5/16	540 - 3,600	Y	1/3	80	Head tilts 90°L/45°R.
Woodtek 907071	459	18	5/8	3	310 - 3,640	NA	1/2	152	Head tilts 90°L/50°R.

KEY: — = not applicable. NA = information not available. Y = yes, N = no. *Model has continuous variable speed. ▲

drill presses

New models in red.



Woodtek 816805



Grizzly G5046



Delta 11-090

See page 144
for listing of manufacturers.

dust collectors



Keeping it clean. Dust and chips stay off the floor and out of the air, thanks to this mobile two-stage dust collector.

Shop cleanup doesn't have to involve scooping wood chips and dust into a garbage bag, if you own a dust-collector. And your health will benefit, too. Long-term exposure to wood dust has been linked to respiratory and other health problems. A dust collector will make your shop a cleaner, more pleasant and healthier place to work.

Dust collectors vary widely in cost and capacity—from shop vacuums that suck dust from one small machine at a time, to dedicated collector units that can handle large quantities of dust and chips from several machines at once. To trap finer airborne dust particles, ambient air cleaners can be hung from the ceiling and run continuously to filter the shop's air.

5 types of dust col

SHOP VACUUMS

Shop vacuums work well for light-duty dust collection from a router or electric sander, but with their modest airflows and small hose diameters, they can be overwhelmed by planer or jointer debris. Further, their universal motors are less powerful and shorter-lived than the induction motors used on dedicated dust collectors.



SINGLE-STAGE

Single-stage blower-and-bag units are the next step up in price and performance. These units can handle large quantities of dust and chips. The more powerful models can be used to run a central dust-collection system when coupled with ductwork connected to all of your major machinery. A single-stage dust



features to consider

Portability

If you aren't planning to set up a permanent network of PVC or metal ducts, you'll want a roll-around collector that you can attach to each machine with a flexible hose as needed. Many portable models may be used as central dust collectors when you're ready to run the ductwork. (For more on designing a central dust-collection system, see AW #37.)

Airflow

Dust collectors are rated by the volume of air (cubic ft. per minute, or cfm) they can move at a given static, or constant, pressure (sp)—the resistance to airflow measured in "inches of water." The key to a realistic rating is the symbol "@." If a collector is rated "500 cfm @ 8 in. sp," that's what it will deliver under real load conditions. Buy a unit with enough cfm to handle your biggest dust-producing machine. (See box, below.) If you'll use more than one machine at a time, buy a collector with enough cfm to handle these machines simultaneously.

SIZING YOUR COLLECTOR

Air volume requirements in cubic ft. per minute (cfm)

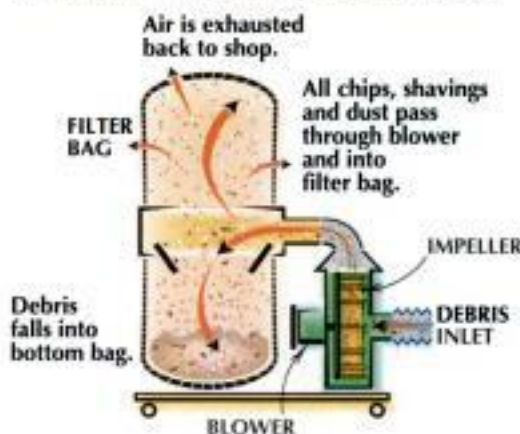
Machine	Required cfm	Machine	Required cfm
Planer, up to 12 in.	400	Jointer, 4 to 12 in.	350
Planer, 13 to 20 in.	500	Belt-disc sander	300
Spindle shaper	400	Floor sweep	350
Bandsaw	300	Lathe	500
Radial-arm saw	350	Drill press	300
Tablesaw	350	Scrollsaw	300

Filter-Bag Efficiency

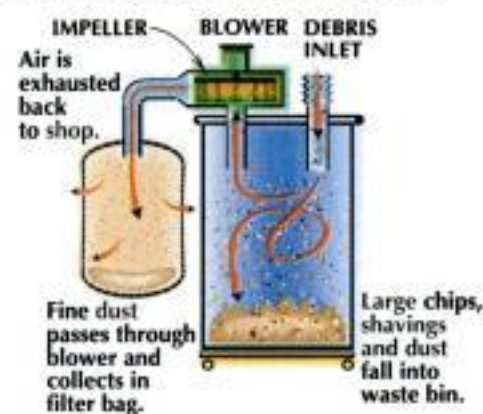
Filter bags vary in their ability to capture the tiniest, most hazardous dust particles—those under 10 microns in size. Typical bags trap particles down to about 50 microns, while super-efficient bags with a very fine weave can capture particles as small as 1 micron.

how dust collectors work

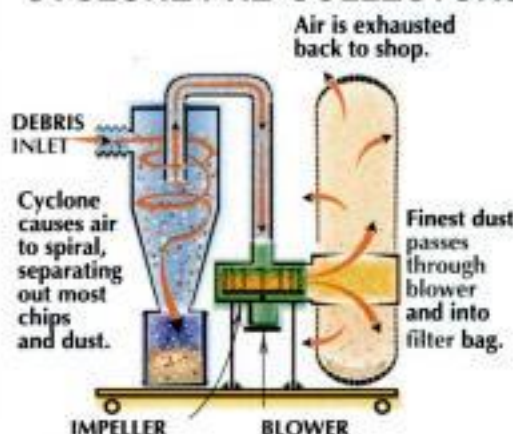
SINGLE-STAGE COLLECTOR



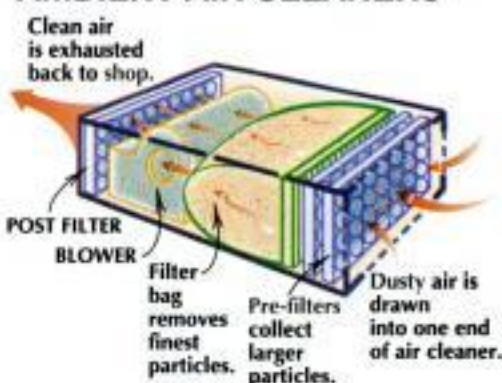
TWO-STAGE COLLECTOR



CYCLONE PRE-COLLECTORS



AMBIENT AIR CLEANERS



ectors

COLLECTORS

collector typically uses a pair of bags. The bag on the bottom gathers large debris before the airstream exits through the upper filter bag.

The drawback to a single-stage collector is that chips pass directly through the impeller, causing wear on the parts. A single-stage collector can be changed into a two-stage unit by adding an in-line debris collector, available through many mail-order catalogs.

TWO-STAGE COLLECTORS

On these units, the blower is usually mounted on top of a collection drum. Large chips fall into the drum before they reach the impeller, reducing wear on the blower. Fine dust collects in the filter bag.

One drawback to two-stage collectors is that you have to lift the heavy blower housing to empty the waste drum.



CYCLONE PRE-COLLECTORS

In this type of collector, the airstream enters a cone-shaped housing where the heavy debris drops into a waste container and the finer dust passes through the blower into the filter bag. Professionals favor these units because they can handle large volumes of debris.



AMBIENT AIR CLEANERS

These air-filtration units consist of a blower and a series of filters that trap fine dust particles. Hung from the ceiling, ambient air cleaners trap the fine, airborne dust particles that dust collectors miss. Continuous-duty motors let you operate these units for long periods.



dust collectors

New models in red.



RBI 821



Reliant NN620



Jet DC-1200

Brand & Model	List Price	HP	Max. Cfm	Max. sp* (in. of water)	Sawdust Capacity (cu. ft.)	No. of Inlet Ports; Port Dia. (in.)	Volts	Weight (lbs.)	Comments
Makita 410	\$763	NA	307	NA	7	1	115	20.4	Designed for portable benchtop tools.
Penn State DC5-5	179	1/2	914	9.4	1	1 ; 4	115	18	Wheels incl.
RBI 821	295	1/2	680	4.4	7.4	1 ; 4	115	75	
Shopsmith DC3300	500	1/2	330	NA	4	3 ; 2 1/2	115	64	
Woodmaster 820	295	1/2	680	4.4	**	1 ; 4	115/230	50	
Torit & Day 64	1,275	3/4	500	4.5	0.3	4 ; 4	115/230	170	
Tradesman 9992	299	3/4	453	6.5	1.5	1 ; 4	115	64	Wheels incl.
Belsaw MC-CT-50S	189	1	700	5.5	2	1 ; 4	115	46	Wheels incl.
Belsaw MC-CT-80A	249	1	600	5	2.2	1 ; 4	115/230	70	Wheels incl.
Belsaw MC-CT-90C	299	1	700	5.5	2.2	1 ; 4	115/230	73	Wheels incl.
Bridgewood BW-015	255	1	750	6	3	2 ; 4	115/230	110	Wheels incl.
Bridgewood BW-015A	199	1	700	5.5	2.4	1 ; 4	115/230	95	Wheels incl.
Craftsman 29978	300	1	650	8.5	1.5	1 ; 4	115	95	Wheels incl.
Grizzly G1028	265	1	610	5.5	4.5	1 ; 4	115/230	116	Wheels incl.
Grizzly G1032	190	1	450	2.8	2.2	1 ; 4	115/230	79	Wheels incl.
Grizzly G1163	150	1	450	2.8	2	1 ; 4	115/230	58	Wheels incl.
Jet DC-650	294	1	650	8.5	2.1	1 ; 4	115	84	
Jet JSL-610	199	1	610	8.5	2.1	1 ; 6	115	80	
Lobo DC-1190	219	1	710	8.5	2.8	1 ; 4	115	86	Steel fan; wheels incl.
Penn State DC1-5	220	1	700	5.5	2.2	2 ; 4	115/230	66	Wheels incl.
Reliant NN620	150	1	500	NA	1.5	1 ; 4	115	45	
Reliant NN720	180	1	610	5.5	2.5	1 ; 4	115	67	
Robland D1500	545	1	1,000	NA	30	1 ; 4	115	100	
Seco UFO-40	132	1	500	4.5	1.5	1 ; 4	115/230	45	
Seco UFO-70F	225	1	655	5.5	2.5	1 ; 4	115/230	88	
Seco UFO-90	167	1	610	5.5	2.5	1 ; 4	115	75	
Star S3810	185	1	700	4.5	2.2	1 ; 4	115/230	80	Opt. 2-micron bag; wheels incl.
Star S3811	150	1	700	4.5	1.5	1 ; 4	115/230	51	Wheels incl.
Sunhill UFO-90	189	1	610	5.5	2.5	1 ; 4	115/230	70	Wheels incl.
Total Shop 90150	199	1	740	6.1	2.4	2 ; 4	115	110	
Woodtek 802124	229	1	400	5.5	2.5	2 ; 4	115	85	Wheels incl.
Woodtek 864367	209	1	380	8.7	3.5	2 ; 4	115	47	Wheels incl.
Delta 50-850	395	1 1/2	1,200	11.4	6	2 ; 4	115/230	100	Balanced, curved impeller; wheels incl.
Penn State DC2-5	310	1 1/2	900	8.5	5.8	2 ; 4	115/230	130	Wheels incl.
Penn State DC3-5	215	1 1/2	760	8.5	1.5	1 ; 4	115/230	46	Wheels incl.
Powermatic 73	480	1 1/2	1,200	8	3.5	2 ; 4	115	125	Floor sweep, wheels incl.
Transpower DC747	175	1 1/2	740	5.5	2	1 ; 4	115	65	
Belsaw MC-1DC	395	2	1,182	8.3	5.2	2 ; 4	230	123	Wheels incl.
Bridgewood BW-002A	279	2	1,059	9.1	5.8	2 ; 4	115/230	117	Wheels incl.
Delta 50-851	588	2	1,500	13.7	6.5	3 ; 4	230	175	Sound-erase baffle; wheels incl.
Grizzly G1029	275	2	1,182	9.1	4.5	2 ; 4	230	140	Wheels incl.
Jet DC-1200	539	2	1,200	9.5	5.3	2 ; 4	230	143	
Jet DC-1200-3	579	2	1,200	9.5	5.3	3 ; 6 & 4	230	143	30-micron bag; steel impeller; wheels incl.
Lobo DC-101	379	2	1,290	9.1	9.5	2 ; 4	115/230	155	Steel fan; wheels incl.
Murphy-Rodgers MRT-5A	1,110	2	800	6.5	7.4**	1 ; 5	230/460	110	Wheels optional.
North State UFO-101	295	2	1,182	9.5	5.4	3 ; 4 & 5	115/230	140	Wheels incl.
Reliant NN820	300	2	1,182	7.6	5.2	2 ; 4	115/230	140	
Seco UFO-101	288	2	1,182	7.5	5.2	3 ; 4 & 5	115/230	140	Opt. 5-micron bag; wheels incl.
Star S3820	275	2	1,182	8.3	5.2	2 ; 5 or 4	230	145	Opt. 2-micron bag; wheels incl.

SINGLE-STAGE

KEY: — = not applicable. NA = information not available. * Static pressure. (See text.) ** User supplies waste drum.

See page 144 for listing of manufacturers.

dust collectors

New models in red.



Bridgewood BW-003A



Dust Boy



Oneida 2 HP Industrial

See page 144
for listing of manufacturers.

Brand & Model	List Price	HP	Max. Cfm	Max. sp* (in. of water)	Sawdust Capacity (cu. ft.)	No. of Inlet Ports; Port Dia. (in.)	Volts	Weight (lbs.)	Comments
Sunhill UFO-101	\$299	2	1,182	7.5	5.2	2 ; 4	115/230	143	Wheels incl.
Total Shop 908A	299	2	1,325	9.4	4.7	2 ; 4	115/230	165	
Transpower DC2000	275	2	1,200	9.1	4	3 ; 8	115/230	128	
Woodtek 805930	399	2	790	8.3	5.2	2 ; 5	230	123	Wheels incl.
Penn State DC250	355	2½	1,350	9.5	5.8	2 ; 4	230	145	Wheels incl.
Belsaw MC-2DC	589	3	1,883	8.7	10	3 ; 4	230	150	Wheels incl.
Belsaw MC-CT-201H	589	3	1,836	8.7	10	3 ; 4	230	156	Wheels incl.
Bridgewood BW-003	795	3	1,950	5.8	19.3	4 ; 4	230	242	
Bridgewood BW-003A	495	3	1,836	5.8	13.5	4 ; 4	230	202	Wheels incl.
Delta 50-852	765	3	2,100	12.5	12.5	4 ; 4	115/230	200	Balanced, curved impeller; wheels incl.
Grizzly G1030	445	3	1,883	5.8	9	3 ; 4	230	165	Wheels incl.
Jet DC-1900	819	3	1,900	10.2	10.6	3 ; 4	230	198	
Jet DC-1900-3	879	3	1,900	10.2	10.7	4 ; 6 & 4	230	198	30-micron bag; steel impeller; wheels incl.
Lobo DC-102	519	3	1,883	9.5	10.5	3 ; 4	115/230	198	Steel fan; wheels incl.
Lobo DC-103	399	3	1,700	9.5	10.5	2 ; 4	115/230	160	Steel fan; wheels incl.
North State UFO-102B	485	3	1,883	9.5	5.4	4 ; 5 & 6	230	180	Wheels incl.
Penn State DC4-5	549	3	1,900	10.2	11.6	3 ; 4	230	200	Wheels incl.
Powermatic 75	812	3	1,900	8	10.5	3 ; 4	230	215	Available in 3 phase; wheels incl.
RBI 1900	499	3	1,900	9.2	7.4	1 ; 6	230	110	
Reliant NN830	460	3	1,883	9.1	10.5	3 ; 4	230	170	
Seco UFO-102B	455	3	1,883	9.1	10.5	3 ; 4	230	181	Opt. 5-micron bag; wheels incl.
Star S3830	445	3	1,885	5.8	10.4	3 ; 6 or 4	230	165	Opt. 2-micron bag; wheels incl.
Sunhill UFO-102B	439	3	1,883	9.1	10.5	3 ; 4	230	181	Wheels incl.
Sunhill UFO-103	795	3	2,683	10.3	17.6	4 ; 4	230	363	Wheels incl.; 3 phase.
Total Shop 91010	499	3	1,900	5.8	9.2	3 ; 4	230	195	
Transpower DC3000	345	3	1,850	5.6	5.3	3 ; 8	230	178	
Transpower DC4000	450	3	1,968	5.8	6.7	4 ; 6	230	250	
Woodmaster 1033	499	3	1,900	9.2	**	1 ; 6	230	140	
Woodtek 864381	499	3	1,180	8.6	10.5	2 ; 6	230	194	Wheels incl.
RBI 004	499	½	450	7	2	1 ; 4	115	120	
RBI 100	399	½	450	3	7	1 ; 4	115	62	
Delta 50-179	549	¾	580	7	4.7	1 ; 4	115/230	53	Opt. 1-micron bag.
Delta 50-180	719	1	700	4.5	7.4**	1 ; 5	115/230	72	Opt. 1-micron bag.
Delta 50-181	958	2	1,100	8.5	7.4**	1 ; 6	230	97	Opt. 1-micron bag.
Dust Boy	565	2	1,100	8.5	9	1 ; 6	115/230	75	Wheels optional.
RBI 400	999	2	1,100	8.5	7	1 ; 4	230	100	
Delta 50-182	1,110	3	1,300	10	7.4**	1 ; 6	230/460	113	Opt. 1-micron bag; wheels optional
Torit & Day Model 13	1,730	¾	540	4.1	4.8	1 ; 4	230	265	
Penn State Cyclone	270	Fits 1-2½ HP	Fits 700-1,350 cfm	NA	**	1 ; 5	NA	40	
Dustvent 12T1½	1,780	1½	1,000	8	7.3**	To suit; 6 - 8	115/230	225	
Oneida Air 1½ HP	786	1½	700	10	5	1 ; 6	115/230	105	Drum included; wheels optional.
Aget Dustkop 11HS51	1,540	2	1,200	6.6	7.4	1 ; 6	115/230	400	Includes filter.
Blue Tornado 102 C	1,100	2	1,370	10.6	14.8	1 ; 6	230	245	Cast aluminum blower housing & impeller.
Blue Tornado 102 HD	798	2	1,200	9.6	14.8	1 ; 6	115/230	206	
Blue Tornado Retrofit 102	435	Fits 2 HP	Fits 450 - 1,200 cfm	—	14.8	1 ; 6	—	48	Comes with stand & drum.
Murphy-Rodgers 6A2-D	1,560	2	900	6.5	7.4**	1 ; 6	230/460	460	
Oneida 2 HP Industrial	985	2	900	10	**	1 ; 7	115/230	200	

KEY: — = not applicable. NA = information not available. *Static pressure. (See text.)
**User supplies waste drum.

Continued on page 84.

dust collectors

New models in red.



Torit & Day Model 19

Brand & Model	List Price	HP	Max. Cfm	Max. sp* (in. of water)	Sawdust Capacity (cu. ft.)	No. of Inlet Ports; Port Dia. (in.)	Volts	Weight (lbs.)	Comments
Torit & Day Model 19	2,098	2	1,200	4.6	4.8	1 ; 6	230	340	
Blue Tornado 103 C	1,460	3	1,970	12	14.8	1 ; 7	230	320	Cast aluminum blower housing & impeller.
Blue Tornado 103 HD	1,075	3	1,900	11	14.8	1 ; 8	115	246	
Blue Tornado Retrofit 103	650	Fits 3 - 5 HP	Fits 875 - 2100 cfm	—	14.8	1 ; 7	—	61	Comes with stand & drum.
Delta 50-900	2,069	3	1,780	9 @ 200 CFM	14.8**	1 ; 8	230	350	
Dustvent 15T3	2,030	3	1,600	15	7.3**	To suit; 8 - 9	230	375	
Dustvent 19T3	2,760	3	1,800	12	7.3**	To suit; 9 - 11	230	680	
Oneida Air 3 HP Industrial	1,185	3	1,350	10	**	1 ; 8	230/460	250	Design & technical assistance provided.
Oneida Air 5 HP	2,090	5	2,000	14	**	1 ; 10	230/460	550	Fan/cyclone can be placed outside.

CYCLONE

ambient air cleaners



Hartville Tool PureAir

Brand & Model	List Price	Airflow (cfm)	Number of Filters	Dust Removal Efficiency	Mounting Options	Cabinet L x W x D (in.)	Weight (lbs.)	Comments & Features
Total Shop 90175	\$249	265	3	99.7% @ 5 microns 98% @ 1 mic.	B, C, W	12 x 24 x 29	53	
Hartville Tool PureAir	249	326	3	99% @ 5 mic. 94% @ 1 mic.	B, C, W	20 x 24 x 12	30	3-stage filter.
JDS Air-Tech 2000 350	259	350	3	99% @ 5 mic. 80% @ 1 mic.	B, C	28 x 24 x 12	43	
Bridgewood 460	249	460	2	98% @ 3 mic.	B, C, W	30 x 24 x 12	43	
CMT ACS-100	439	460	3	98% @ 3 mic.	B, W	12 x 24 x 20	30	
Grizzly G4702	250	460	2	98% @ 3 mic.	C	30 x 24 x 12	37	
Woodworker's Supply 897226	269	460	3	—	B, C, W	24 x 20 x 12	30	Washable pre-filter.
Penn State PSI AC465	239	465	2	65% @ 1 mic.	B, C	24 x 12 x 30	40	Opt. filters.
Total Shop 90177	299	490	3	99.7% @ 5 mic. 98% @ 1 mic.	B, C, W	12 x 24 x 29	60	
Penn State PSI DC720	199	720	1	35% @ 1 mic.	B	23 x 10 ³ / ₈ x 8	25	Benchtop model.
JDS Air-Tech 2000 8-12	495	800 or 1,250	3	99% @ 5 mic. 80% @ 1 mic.	B, C	44 x 24 x 20	86	2 speeds; opt. charcoal filter.
Grizzly G4705	396	920	2	98% @ 3 mic.	C	30 x 24 x 12	47	
Penn State PSI AC930	339	930	2	65% @ 1 mic.	B, C	24 x 12 x 30	51	2 speeds.
Total Shop 90180	429	980	3	99.7% @ 5 mic. 98% @ 1 mic.	B, C, W	12 x 24 x 37	65	
Bridgewood 1000	450	1,000	2	98% @ 3 mic.	B, C, W	30 x 20 x 20	61	
JDS Air-Tech 2000 10-16	695	1,000 or 1,600	3	99% @ 5 mic. 80% @ 1 mic.	B, C	44 x 24 x 20	92	2 speeds; opt. charcoal filter.
Total Shop 90185	499	1,400	3	99.7% @ 5 mic. 98% @ 1 mic.	B, C, W	20 x 20 x 40	78	
Penn State PSI AC2500	899	2,500	2	65% @ 1 mic.	B, C	24 x 24 x 54	160	

AMBIENT AIR CLEANERS



JDS Air-Tech 2000 10-16

KEY: Mounting Options: B = bench, C = ceiling, W = wall. — = not applicable.

See page 144
for listing of manufacturers.

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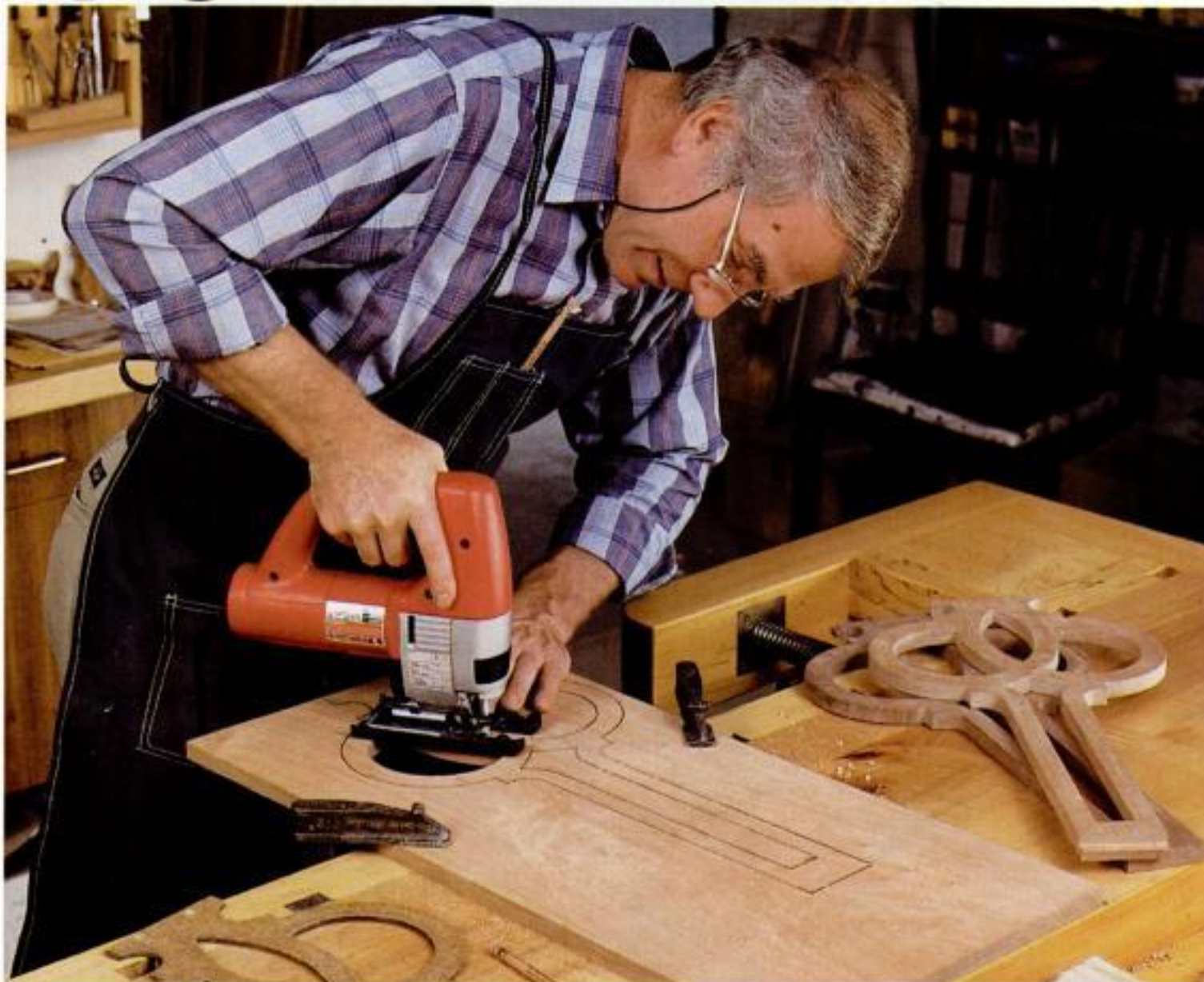


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CIRCLE NO. 2 ON PRODUCT INFORMATION FORM

jigsaws



Making the cut. Portability, and the ability to make smooth, intricate cuts in wood and other materials make the jigsaw a workshop and jobsite workhorse.

a jigsaw—also called a saber saw or bayonet saw—can make the cuts that the other tools can't. Unlike a bandsaw or scrollsaw, you can take this saw to the work. Jigsaws excel on the jobsite, and whenever workpieces are too bulky or heavy to handle on a bandsaw. A jigsaw can cut into workpieces of any length or width, since it's not limited by a throat depth. Armed with an assortment of blades, it can slice through wood, laminates, plastic and metal.

Most jigsaws have tilting bases to make bevel cuts up to 45°. Depending on the blade that's used, they can make cuts in wood up to 3 in. thick. A 3.5-amp motor will provide enough juice for most cutting chores.

3 types of jigsaws

TOP-HANDLE JIGSAWS

Many woodworkers prefer the top- or "D-handle" design. They feel that positioning the handle above the motor is more comfortable and allows for more control when cutting thick or dense materials.



BARREL-GRIP

A barrel-grip saw is essentially a top-handle saw without a handle. To saw, you grip the barrel by its motor housing.

A barrel-grip saw shines when cutting tight curves or small holes in thinner stock. Barrel-grip users claim that the behind-the-blade hand position makes it easy to cut quickly and



features to consider

Straight-Line vs. Orbital Blade Action

Straight-line cutting is best for smooth, tearout-free cuts. But for general cutting, you'll want a saw with orbital action that will chew through stock fast. Most jigsaws allow you to switch between cutting modes. Several offer different degrees of orbital action.

Stroke Length

The length the blade travels on the down-stroke or the upstroke varies from $7/16$ in. to 1 in. on these saws. A longer stroke length means more chip clearance for faster cuts.

Speed Control

Variable speed means more cutting control. Use high speeds for general cutting; use slow speeds for delicate materials, metals and plastics.

Baseplate

The baseplate provides support for the saw while keeping the blade at a fixed angle to the work. Look for a thick, sturdy plate that won't flex or loosen during operation. If the baseplate is adjustable, see if it has detents for stops at 45° and 90°. (See photo, top right.)

Blade Guides

A blade guide supports the blade, limiting side-to-side and backward blade deflection. This feature promotes accuracy and reduces blade breakage.

The "scrolling" head on some jigsaws lets you rotate the blade 360° without moving the saw body—instead, you turn a knob at the front end of the saw. This feature enables you to perform some fairly intricate scrolling. However, you won't find blade guides on the saws with this mechanism.

Blade Changing

On most jigsaws, you release the blade by loosening a setscrew. If you plan on doing a lot of jigsaw work, consider buying a model that has a "tool-free" or quick-release mechanism. With this feature, changing blades is as simple as pulling a lever and clicking in a replacement. (See photo, below right.)

While most saws will accept universal type blades, some models require special types of blades. Check the Blade Mount Type column in the chart on page 88.

The Cordless Option

Although it has less power, a cordless saw is handy when you're working outside of the shop, or when you're making the kinds of cuts where a cord might get in the way.



Cut at full tilt. Adjustable-angle baseplates allow you to cut angles up to 45°.



Quick change. A quick-release lever replaces the conventional setscrew for tool-free blade replacement.

JIGSAWS

efficiently. However, if you have small hands, you may find that it's difficult to get a good hold on some of the fatter barrel-grip models.

IN-LINE JIGSAWS

This type of saw is a cross between a reciprocating saw and a jigsaw: The blade travels parallel to the armature. The in-line saw is a favorite among remodelers because it can get into places that most other jigsaws can't. On the downside, this type of saw is less accurate than other types because of its small baseplate.



options worth having

Extra blades. It makes sense to stock up on jigsaw blades, especially those that are used and/or break most frequently.

Stick with bimetal blades if you can. Though they're more expensive than high-speed-steel blades, bimetal blades cut better and last longer.

Baseplate cover. Inevitably, your baseplate will earn a few job-site scars that can wind up scratching your work when it's time to make a finish cut. This plastic shoe fits onto the base to provide a slick, smooth bearing surface.

Edge guide with circle cutter. This straightedge attaches to the base, to guide straight cuts. An edge guide can also be used as a trammel for circle cutting.

portable jigsaws

New models in red.



DeWalt DW321K



Hitachi CJ65V2K



Makita 4303C



Milwaukee 6267/20

Brand & Model	List Price	Type	Blade Mount Type	Blade Guide	Stroke Length (in.)	Cuts per Minute	Amps	Dust Collection	Weight (lbs.)	Comments & Features
Black & Decker 7568	\$81	TH	U	Y	1 1/16	800 - 3,200	3.5	CB	4	Chip deflector.
Black & Decker 7588	102	TH	U	N	1 1/16	800 - 3,200	3.5	—	4	Scrolling head.
Black & Decker JS320	45	TH	U*	Y	1 1/16	2,450 - 3,200	3.7	VP	4	
Black & Decker JS350	50	TH	U*	Y	1 1/16	800 - 3,200	3.7	VP	4	Quick Clamp™ blade-change system.
Black & Decker JS400	155	TH	U	Y	1 1/16	800 - 3,200**	3.5	VP	4.9	4-position orbital action.
Bosch 1581AVS	318	TH	B	N	1	500 - 3,100**	5	CB	5.5	Linear counter balance.
Bosch 1584DVS	318	BG	B*	N	1	500 - 3,100**	5	CB, VP	5.5	Base cover; anti-splinter insert.
Bosch 1584VS	291	BG	B*	N	1	500 - 3,100**	5	CB	5.5	Anti-splinter insert.
Bosch 1584VSKB	360	BG	B*	N	1	500 - 3,100**	5	CB, VP	5.5	48 assorted blades; metal case.
Bosch 1587DVS	329	TH	B*	N	1	500 - 3,100**	5	CB, VP	5.8	Base cover; anti-splinter insert.
Bosch 1587VS	291	TH	B*	N	1	500 - 3,100**	5	CB	5.8	Anti-splinter insert.
Bosch 1587VSKB	360	TH	B*	N	1	500 - 3,100**	5	CB, VP	5.8	48 assorted blades; metal case.
Bosch 3294EVS	223	IL	B*	N	5/8	300 - 3,800**	3.6	—	3.2	Also use as rasp.
Craftsman 1714	25	TH	U	N	1/2	2,600, 3,000	2.5	CB	3.8	
Craftsman 17204	40	TH	U	N	5/8	0 - 3,000	2.5	CB	4.5	Reversible dual-throat base.
Craftsman 17207	50	TH	U	N	5/8	0 - 3,000	2.5	CB	5	Scrolling head; dual-throat base.
Craftsman 17211	80	TH	U	N	3/4	0 - 3,000	2.5	CB	5.4	Auto scrolling head, adjustable speed dial.
Craftsman 27251	140	TH	U	Y	1	0 - 3,100**	4.5	—	6.2	
Craftsman 27710	170	BG	B*	Y	1	500 - 3,100**	5	CB	5.5	Anti-splinter insert.
DeWalt DW313	206	TH	U	Y	1	0 - 3,100	4.5	—	6.2	Reversible dual-throat base.
DeWalt DW318K	224	TH	U	Y	1	0 - 3,100**	4.5	—	6.2	Orbital action.
DeWalt DW321K	300	TH	B or U*	Y	1	500 - 3,100**	5.8	CB	6.4	Tool-free blade-changing system.
DeWalt DW323K	300	BG	B or U*	Y	1	500 - 3,100**	5.8	—	5.3	Kit box.
Fein Aste 638	623	BG	U	N	13/16	1,050 - 2,600	3.9	VP	4.8	Adjustable base.
Freud FJ65	151	BG	B	Y	3/4	0 - 3,000**	3.2	VP	3.8	Medium-duty saw w/ 3 orbital settings.
Freud FJ85	230	BG	B	Y	1	0 - 3,000**	4.8	VP	5	Heavy-duty saw w/ 4 orbital settings.
Hitachi CJ65V2K	374	TH	B, U, WU	Y	1	700 - 3,200**	5.2	VP	5.5	Case.
Hitachi CJ65VA2K	374	BG	B, U, WU	Y	1	700 - 3,200**	5.2	VP	5.3	Case.
Makita 4301BV	292	TH	B, WU	Y	1	0 - 3,100**	3.5	CB	6	Steel case.
Makita 4303C	391	TH	B, WU	Y	1	1,000 - 3,000**	6	CB	5.5	
Makita 4304	329	TH	U	Y	1	500 - 3,000**	5.5	NA	5.1	Anti-splinter insert.
Makita 4305	305	BG	B, WU	Y	1	500 - 3,000**	5.5	CB	5.1	Anti-splinter insert; see-through guard.
Makita 4320	182	TH	WU	Y	1 1/16	0 - 3,200	2.9	CB	2.9	
Metabo E452	199	TH	U	Y	3/4	500 - 3,000	4	CB	5	
Metabo EP140	375	TH	U	Y	5/8	700 - 2,500**	9.6	CB	3.9	9.6-V cordless.
Metabo EP455	235	TH	U	Y	3/4	500 - 3,000**	4	CB	5.9	
Metabo EP564	307	BG	U	Y	1	500 - 3,000**	5	CB	6.4	
Metabo EP565	319	TH	U	Y	1	500 - 3,000**	5	CB	6.2	
Metabo STEP550Q	224	TH	*	Y	3/4	1,000 - 3,000**	4.8	VP	5.9	
Metabo STEP600Q	259	TH	*	Y	3/4	1,000 - 3,000**	5.2	VP	5.9	
Metabo STEP700Q	325	BG	*	Y	1	1,000 - 3,000**	6	VP	6.4	
Milwaukee 6256	264	TH	U	Y	1	0 - 3,100	3.8	—	5.7	
Milwaukee 6256/6	284	TH	U	Y	1	0 - 3,100	3.8	CB	5.8	Trigger speed control.
Milwaukee 6266	305	TH	B*	Y	1	450 - 3,100**	5.7	VP	5.3	Base cover; anti-splinter insert.
Milwaukee 6266/6	319	TH	B*	Y	1	450 - 3,100**	5.7	CB, VP	5.3	Shoe cover; anti-splinter insert.
Milwaukee 6267/20	445	BG	B*	Y	1	1,700**	—	VP	5.8	12-V cordless.

KEY: Type: TH = top handle, BG = barrel grip, IL = in-line. Blade Mount Type: B = bayonet, H = hook, U = universal, WU = wide universal. Y = yes, N = no. Dust Collection: CB = chip blower, VP = vacuum port. — = not applicable. NA = information not available. *Has quick-change feature. **Has orbital action.

See page 144 for listing of manufacturers.

Brand & Model	List Price	Type	Blade Mount Type	Blade Guide	Stroke Length (in.)	Cuts per Minute	Amps	Dust Collection	Weight (lbs.)	Comments & Features
Milwaukee 6267/21	\$530	BG	B*	Y	1	1,700**	—	VP	5.8	Cordless.
Milwaukee 6276/6	319	BG	B*	Y	1	450-3,100**	5.7	CB, VP	5.3	Shoe cover; anti-splinter insert.
Porter-Cable 548	400	TH	H, U	N	7/16	0-4,500**	3.5	—	6.5	Fixed base; anti-splinter insert; worm drive.
Porter-Cable 7349	200	TH	H, U	Y	1	0-3,200**	4	CB	6	Side blade guides; anti-splinter insert.
Porter-Cable 7549	254	TH	H, U	Y	1	500-3,200**	4.8	CB	6	Side blade guides; anti-splinter insert.
Porter-Cable 7649	254	BG	H, U	Y	1	500-3,200**	4.8	CB	6.5	Anti-splinter guides; 3 orbital settings.
Ryobi JS045	90	TH	WU	Y	5/8	0-3,000**	3	—	3.5	Reversible dual-throat base.
Ryobi JS048	90	TH	WU	Y	3/4	0-3,000**	4	CB	4	10-ft. cord.
Skil 4225	53	TH	U	N	5/8	3,200	3.2	CB	3.6	
Skil 4235	60	TH	U	N	5/8	0-3,200	3.2	CB	3.6	Blade storage.
Skil 4340	79	TH	U	N	5/8	800-3,200	4	VP	4	Dynamic vibration reduction.
Skil 4445	89	TH	U	N	5/8	800-3,200**	4	VP	4	Dynamic vibration reduction.
Skil 4455	98	TH	U	N	5/8	800-3,200	4	VP	4.1	Dynamic vibration reduction.
Skil 4470	108	TH	U	N	5/8	800-3,200**	4	VP	4.1	Dynamic vibration reduction.
Skil 4470-44	118	TH	U	N	5/8	800-3,200**	4	VP	4.1	Dynamic vibration reduction.
Skil HD4560	183	TH	U	N	13/16	0-3,200	3.5	CB	5.5	Scrolling head.
Skil HD4580	196	TH	U	N	13/16	0-3,200**	3.5	CB	5.6	

KEY: Type: TH = top handle, BG = barrel grip, IL = in-line. Blade Mount Type: B = bayonet, H = hook, U = universal, WU = wide universal. Y = yes. N = no. Dust Collection: CB = chip blower, VP = vacuum port. — = not applicable. NA = information not available. *Has quick-change feature. **Has orbital action.

portable jigsaws

New models in red.



Porter-Cable 7649



Skil 4470

See page 144 for listing of manufacturers.

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CIRCLE NO. 163 ON PRODUCT INFORMATION FORM

jointers



Straight and flat. The jointer can transform boards that are rough or uneven, leaving smooth, straight surfaces and square or beveled edges.

most woodworking demands square, straight edges and flat surfaces. Nothing beats a jointer when it comes to meeting these conditions. With this machine, you can transform a roughsawn surface into a smooth one, or plane a cupped board flat. When a board is a bit too wide or thick, the jointer can remove stock in tiny increments, yielding the final dimension that you're after.

The size of a jointer is based on its maximum width-of-cut. While jointers are made in sizes up to 24 in., 6- and 8-in. models are most popular. The workpiece runs against a fence and over a spinning cutterhead that's located between the infeed and outfeed tables.

2 types of jointers

FLOOR-MODEL JOINTERS

These machines are the best choice for handling longer and heavier boards. Professionals choose stationary jointers over benchtop models for their capacity, stability and durability. A stationary model is a smart investment for any woodworker who does a substantial amount of dimensioning, especially in hardwoods.



features to consider

Size

Unless you specialize in small-scale work, a 6-in. or 8-in. jointer will probably serve you best. If you frequently joint or plane long boards, extra-long infeed and outfeed tables are a good idea. Check the Bed Length column in the chart on the following page.

Knives and Rpm

The cutterhead in a jointer can have two, three or four knives. You'll find a three- or four-knife cutterhead in most floor models; benchtop jointers usually have two knives. Although all the knives cut, they are rarely at precisely the same height, so only the highest knife produces the finished surface. In general, higher cutterhead speeds produce finer surfaces.

Good Beds

Look for flat, well-machined surfaces on infeed and outfeed beds. An adjustable outfeed bed makes it easier to change and adjust knives.

The Fence

Like the beds, the fence should be machined flat, with a smooth finish that will allow the workpiece to slide easily against it. A center-mounted fence is more stable than an end-mounted fence.

The Base

Except with benchtop models, a factory-made base should be included in the price of the jointer. Look for sturdy, steel construction. The base should include a dust chute and/or dust collection port.

Rabbeting Ledge

This feature, which is found on many stationary jointers, enables you to mill rabbets and tongues on your jointer. (See photo, below.)



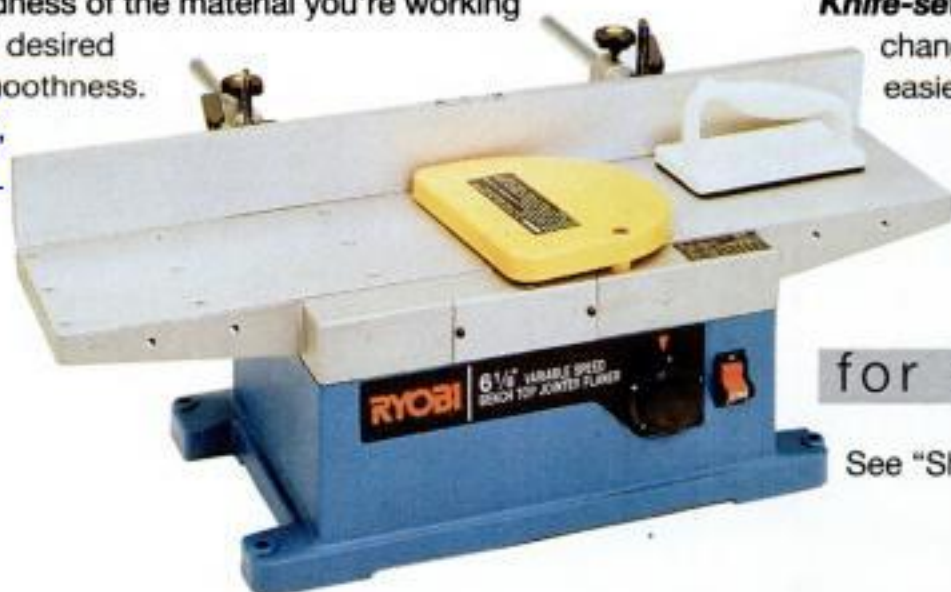
A ledge for rabbets. On a jointer equipped with a rabbeting ledge, you can quickly and easily mill rabbets and tongues.

BENCHTOP JOINTERS

These scaled-down machines have width capacities between 4 in. and 6 in. and much shorter infeed and outfeed tables than stationary jointers. The universal motor on a benchtop jointer is louder than the induction motor on a typical floor model, and it's not suited to heavy-duty use.

Benchtop jointers are good for light- to medium-duty work, for woodworkers who build small-scale projects, and in shops where floor space is scarce. Some benchtop models feature variable speed control, which lets you tailor your cutting speed to the hardness of the material you're working and to the desired cutting smoothness.

(See chart, page 92.)



options worth having

Push blocks. Push blocks are a must for safe jointing and planing operations. Aftermarket blocks are available, or you can make your own.

Extension rollers or supports. Adjustable rollers or supports will add stability when you're jointing or planing long stock.

Extra knives. With an extra set of knives, your downtime is minimized when knives get dull or nicked.

Knife-setting jig. If your jointer doesn't come with a jig for changing knives, an aftermarket version will make it much easier to reinstall knives after they've been sharpened.

for more info

See "Shop Tested: 8-Inch Jointers," AW #58.

jointers

New models in red.

For jointer-planers, see page 138.



Delta 37-070



Grizzly G1182Z



Jet JJ-60S



Sunhill CT-204L

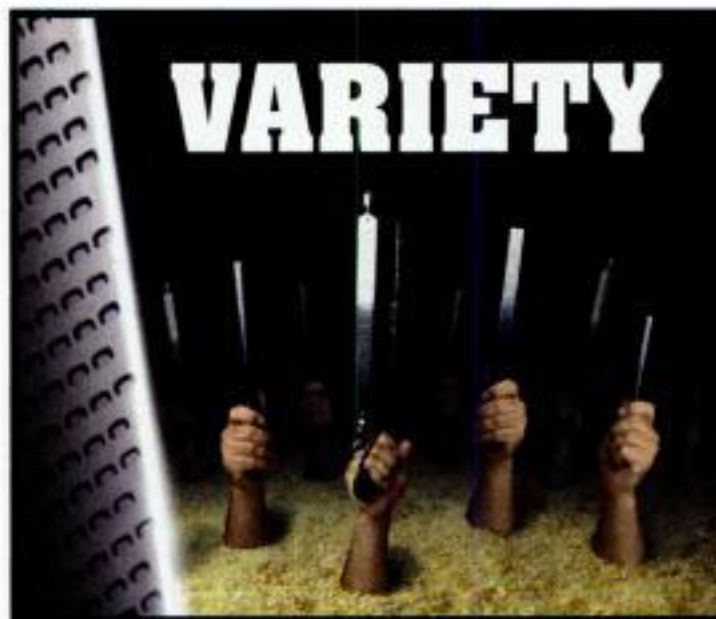
	Brand & Model	List Price	Cutting Width x Bed Length (in.)	No. of Knives x Rpm	HP	Volts	Rabbeting Ledge	Dust Collection Port	Weight (lbs.)	Comments & Features
BENCHTOP	AMT 4503	\$159	4 1/8 x 22 5/8	2 x 8,000	5/8	115	N	Y	35	Cast-iron & steel const.
	Craftsman 23624	150	4 1/8 x 22 5/8	2 x 8,000	5/8	115	N	Y	35	Cast-iron & steel const.
	Tradesman 8215	199	4 1/8 x 26	2 x 10,000	5.8 amps	115	N	Y	27	Includes 2 push blocks.
	AMT 4800	199	5 1/8 x 25 1/8	2 x 8,000	7/8	115	N	Y	45	Cast-iron & steel const.
	AMT 4540	269	6 1/8 x 30	2 x 10,000	1 1/2	115	N	Y	53	Cast-iron & steel const.
	Craftsman 23628	280	6 1/8 x 31	2 x 10,000	1 1/2	115	N	Y	53	Cast-iron & steel const.
	Delta 37-070	362	6 1/8 x 30	2 x 6,000 - 11,000	NA	115	N	N	35	Variable speed.
	Ryobi JP155	370	6 1/8 x 28	2 x 8,000 - 16,000	NA	115	N	Y	27	Variable speed.
FLOOR MODELS	Star S3100	300	4 x 31	3 x 5,000	1/2	115/230	Y	Y	110	Center-mounted fence; optional mobile base.
	AMT 4124	379	6 x 46	3 x 5,000	1	115/230	Y	N	220	Micrometric blade adj.
	Belsaw MC-6JT	639	6 x 45 1/2	3 x 4,500	3/4	115/230	Y	OPT	251	Center-mounted fence.
	Bridgewood BW-6J	329	6 x 45 1/2	3 x 4,500	1	115/230	Y	N	193	Handwheel adjusts table height.
	Bridgewood BW-6R	399	6 x 45 1/2	3 x 4,500	1	115/230	Y	Y	239	Fence tilts both ways; handwheel adj. table.
	Delta 37-190 Deluxe	615	6 x 46	3 x 4,800	3/4	115/230	Y	Y	210	Center-mounted fence.
	Delta DJ-15 37-154	1,586	6 x 55 1/2	3 x 5,500	3/4	115/230	Y	Y	328	Counterbalanced table support.
	General 1180-1	937	6 x 42 1/2	3 x 4,200	—	—	Y	Y	185	Motor not included.
	General 1180-1-M1	1,217	6 x 42 1/2	3 x 4,200	3/4	115/230	Y	OPT	210	
	Grizzly G1182	375	6 x 47	3 x 5,000	1	115/230	Y	OPT	250	Ball-bearing cutterhead; adj. infeed & outfeed.
	Grizzly G1182Z	395	6 x 47	3 x 5,000	1	115/230	Y	OPT	275	
	Jet JJ-60S	529	6 x 42	3 x 4,800	3/4	115/230	Y	Y	180	Industrial push-button switch; pre-wired.
	Lobo JT-1006	289	6 x 42 1/2	3 x 4,500	1	115/230	Y	N	205	End-mounted fence; handwheel adj. table.
	Lobo JT-2206	379	6 x 42 1/2	3 x 4,500	1	115/230	Y	Y	205	Center-mounted fence; cabinet stand.
	Powermatic 50	1,722	6 x 56	3 x 7,000	3/4	115/230	Y	Y	434	Fence can be skewed for shear cuts.
	Powermatic 54	766	6 x 45 1/2	3 x 4,500	3/4	115/230	Y	Y	215	Center-mounted cast-iron fence.
	Reliant DD39C	370	6 x 45 1/2	3 x 4,500	1	115/230	Y	Y	214	Knife-setting gauge.
	Star S3101	345	6 x 47	3 x 5,000	1	115/230	Y	Y	230	Center-mounted fence; optional 1-piece stand.
	Star S3104	380	6 x 47	3 x 5,000	1	115/230	Y	Y	250	Nylon table protector; center-mounted fence.
	Star S3104N	485	6 x 47	3 x 5,000	1 1/2	115/230	Y	Y	250	Jackscrew cutterhead.
	Sunhill CT-60L	379	6 x 52	3 x 4,500	1	115/230	Y	Y	220	Cast-iron table extensions.
	Tradesman 8202A	399	6 x 42	3 x 4,000	1	115/230	Y	OPT	169	Front-mounted fence.
	Transpower JT650	250	6 x 42	3 x 4,500	1	115	Y	Y	198	End-mounted fence.
	Transpower JT680	325	6 x 46	3 x 4,500	1	115	Y	Y	225	Center-mounted fence.
	Woodtek 801589	395	6 x 42 1/2	3 x 6,000	1	115/230	N	Y	191	Front and rear guards.
	Jet JJ-6CSX	639	6 1/16 x 46	3 x 4,800	3/4	115/230	Y	Y	275	Center-mounted fence.
	Craftsman 23224	500	6 1/8 x 45	3 x 5,000	1	115/230	Y	N	204	Center-mounted fence; enclosed stand.
	Lobo JT-1007	299	7 x 42 1/2	3 x 4,500	1	115	Y	N	205	
	Bridgewood BW-8J	949	8 x 66	4 x 4,500	1 1/2	115/230	Y	Y	420	Handwheel adj. table; American motor.
	General 480-1	1,997	8 x 64	3 x 4,500	—	—	Y	Y	360	Motor not included.
	General 480-1-M1	2,417	8 x 64	3 x 4,500	1 1/6	230	Y	Y	440	Magnetic starter.
	Grizzly G1018	660	8 x 65	3 x 5,000	1 1/2	230	Y	OPT	445	Fence stop 90° & 45°.
	Jet JJ-8CS	1,399	8 x 66	3 x 5,500	2	230	Y	Y	398	Center-mounted fence.
	North State CT 200	795	8 x 68	3 x 4,500	2	115/230	Y	Y	500	Knife-setting gauge.

KEY: NA = information not available. — = not applicable. Y = yes. N = no. OPT = optional.

Chart continued on page 94.

See page 144 for listing of manufacturers.

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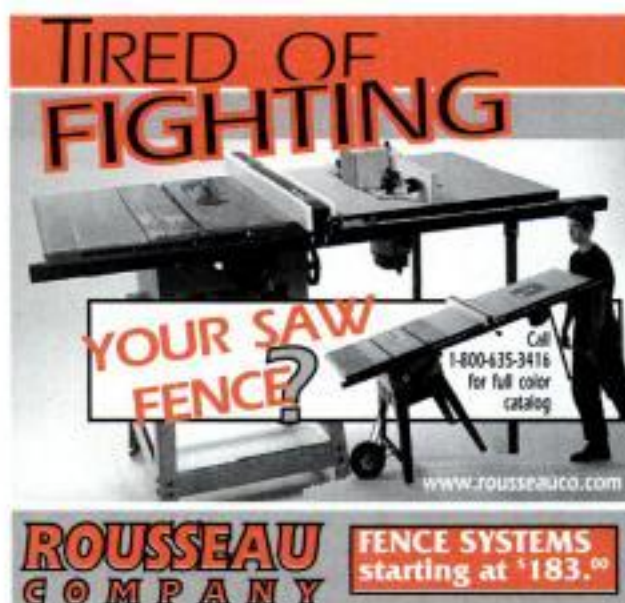
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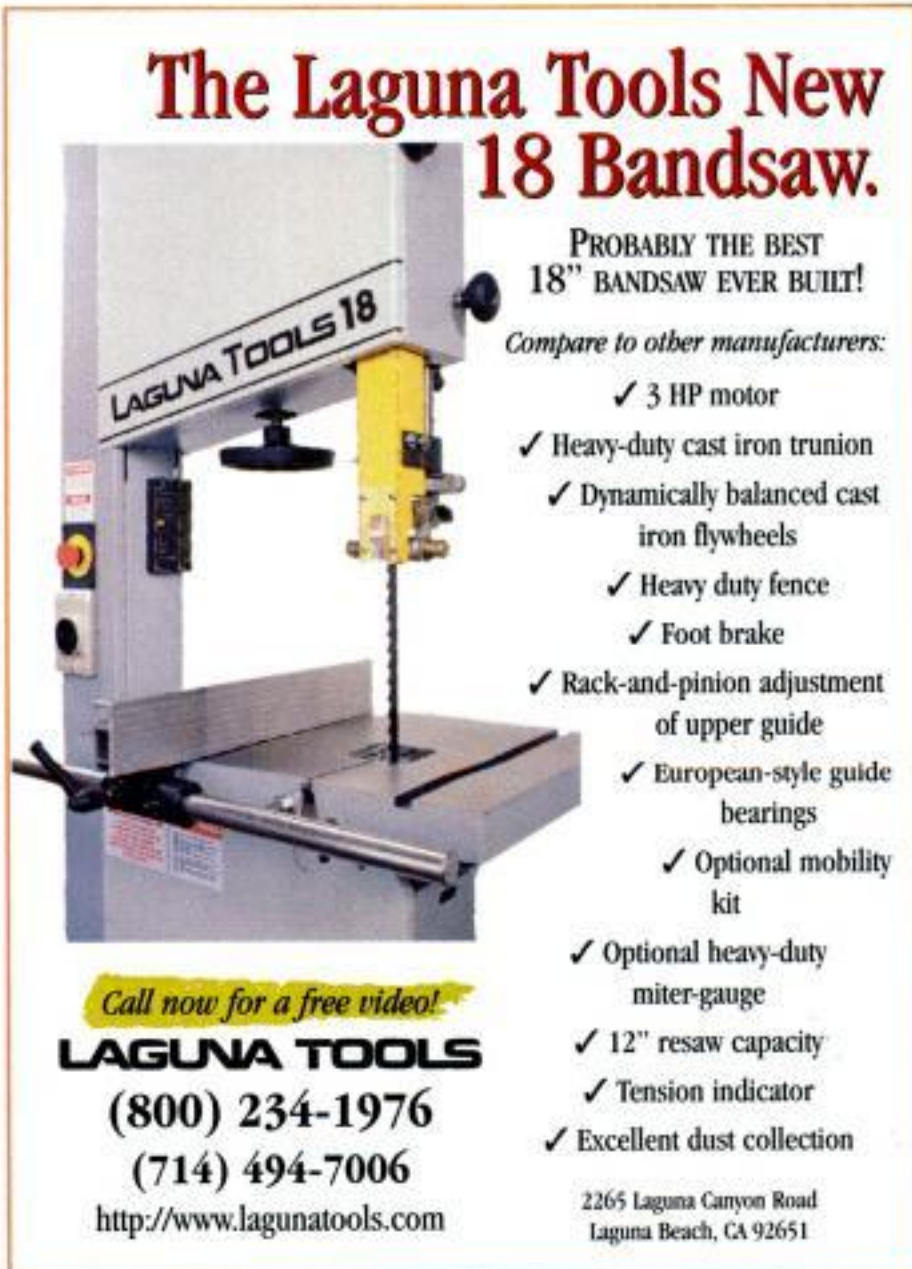


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CIRCLE NO. 50 ON PRODUCT INFORMATION FORM

jointers

New models in red.

For jointer-planers, see page 138.



Delta DJ-20 37-350A

Brand & Model	List Price	Cutting Width x Bed Length (in.)	No. of Knives x Rpm	HP	Volts	Rabbeting Ledge	Dust Collection Port	Weight (lbs.)	Comments & Features
Powermatic 60	\$2,212	8 x 72	3 x 7,000	1½	115/230	Y	Y	547	Fence can be skewed for shear cuts.
Seco SK-0008JT	950	8 x 66	3 x 4,500	2	230	Y	Y	512	Double V-belt drive.
Star S3102	640	8 x 65	3 x 5,000	1½	230	Y	Y	450	Nylon table protector.
Star S3107	725	8 x 65	3 x 5,000	2	230	Y	Y	450	Nylon table protector; center-mounted fence.
Star S3107N	785	8 x 65	3 x 5,000	2	230	Y	Y	450	Jackscrew cutterhead.
Sunhill CT-204L	859	8 x 72	4 x 4,500	2	230	Y	Y	500	Cast-iron table extensions.
Transpower JT860	615	8 x 65	3 x 4,500	2	115/230	Y	Y	475	Handwheel adjusts table height.
Transpower JT980	725	8 x 67	4 x 4,500	3	230	Y	Y	485	Handwheel adjusts table height.
Woodtek 907064	799	8 x 65¾	3 x 4,500	1½	115/230	Y	Y	445	Handwheel table adjustments.
Reliant DD40	680	8½ x 66	3 x 4,500	2	230	Y	Y	400	Center-mounted fence.
Delta DJ-20 37-350A	2,155	8½ x 76½	3 x 5,500	1½	115/230	Y	Y	480	Extra-long infeed table.
Lobo JT-1008	689	8½ x 66	3 x 5,500	2	115/230	Y	OPT	520	Double V-belt drive; handwheel adj. table.
Delta DJ-30 37-360	4,295	12 x 84	3 x 5,000	3	230/460	Y	Y	706	Center-mounted fence.
General 780-1-M1	4,100	12 x 84	4 x 4,500	3	230	Y	OPT	1,500	
Seco SK-512JT	2,494	12 x 74	3 x 4,500	3	230	Y	Y	1,060	
Star S3103	1,799	12 x 72	3 x 5,200	3	230	Y	Y	1,200	Magnetic starter; center-mounted fence.
Mini Max F1	5,995	16 x 102	4 x 5,000	6¾	230/460	Y	OPT	1,653	

KEY: NA = information not available. — = not applicable. Y = yes. N = no. OPT = optional.

See page 144 for listing of manufacturers.

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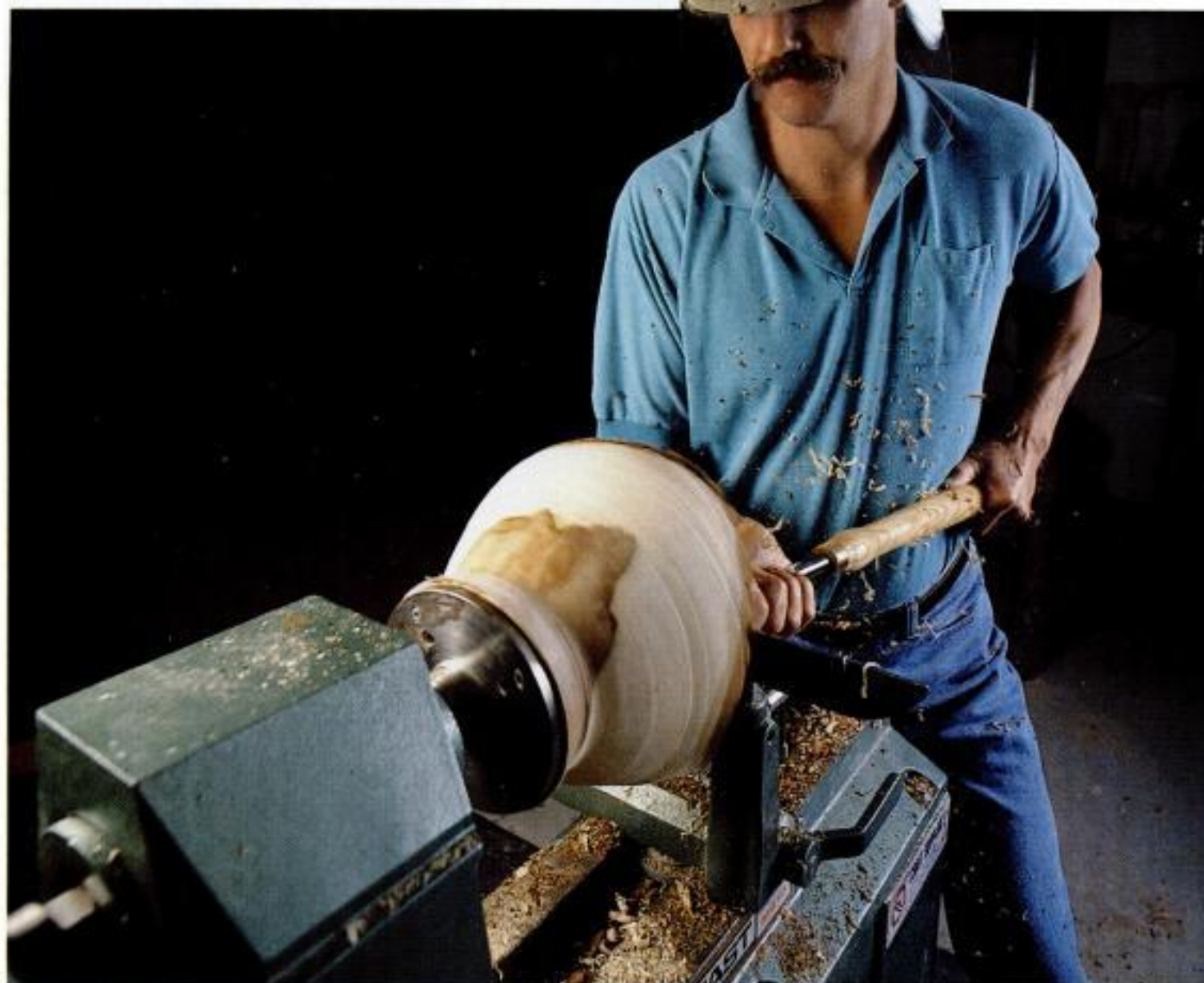
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lathes



Take a spin. Whether you're turning bowls, candlesticks or table legs, you can have a lot of fun with a lathe.

LEAD PHOTO BY JOHN HAMEL

the lathe is one woodworking machine that provides instant gratification. Hold a sharp chisel or gouge to a spinning workpiece and a form develops in just a few minutes. You can create shapes not possible with other machines—from turned table legs to bowls and candlesticks.

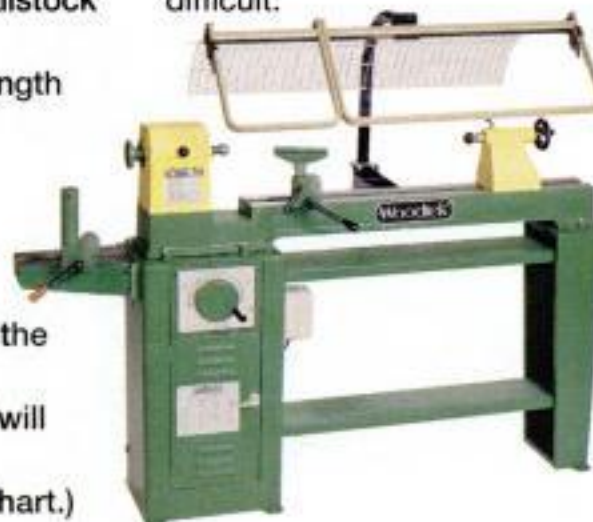
The lathe is a simple machine. The workpiece spins between a motor-driven headstock and (for spindle turning) a tailstock that can be adjusted along the bed according to the length of the work.

A lathe's size is designated by the swing, the maximum diameter of work it will handle. Length refers to the distance between centers, the longest stock the tool will hold between the headstock and the tailstock. (See chart.)

3 types of lathes

FLOOR-MODEL LATHES

These lathes are favored by serious turners. The key advantages here are stability and increased capacity. Sturdier than their benchtop counterparts, floor models reduce or eliminate the vibration that makes clean cutting difficult.



SPECIALTY LATHES

Bowl lathes are no-bed or short-bed models designed for large-diameter work. They can't handle long spindles, and they aren't intended for general-purpose work.



Bowl lathe ▲

features to consider

Spindles

Tapered spindles are best for durability and versatility. Look for a headstock and tailstock with a No. 2 Morse taper. In most cases, you're better off with a standard headstock spindle size—either 1 in. dia. by 8 threads per in. (tpi), 1 in. dia. by 12 tpi, or 1½ in. dia. by 8 tpi.

Weight

Weight is an advantage in a lathe because it dampens vibration and promotes stability. Look for cast-iron components and—in floor models—a stand of heavy-gauge steel.

Speed and Drive Systems

For general turning, get a machine with a range of speeds from 400 rpm or slower (for larger-diameter work such as bowls) to 2,500 rpm (for most spindle work).

Three types of drive systems are available:

Step pulleys are simple and foolproof. To change speeds, you stop the motor and reposition the belt to fit around a different pair of pulleys. With step-pulley drive, you're limited to a few fixed speeds. These drives are best for spindle turning and small faceplate work.

Mechanical variable speed systems, or Reeves drives, have infinitely variable speed within the tool's speed range. To vary the speed, you turn a crank or lever while the lathe is running. While this adjustment offers more versatility than step pulleys, the low speeds can still be too fast for turning larger-diameter work like bowls.

Electronic variable speed (EVS) offers the most control and convenience for all kinds of turning work. EVS control allows infinite speed adjustment within the tool's range, at the simple



Swiveling headstock. When the headstock swivels 90°, you have the room to turn large-diameter work, unimpeded by the lathe's bed.

turn of a knob. These direct-current or "DC" drives are expensive, but low-speed torque is excellent—a great advantage when turning large objects. And some models offer reversible spindle direction.

Power

A 1-HP motor will do well for general-purpose use. For large work, look for a motor in the 1½-HP to 2-HP range. (See chart.)

Swiveling Headstocks

Some lathes have headstocks that swivel for outboard turning while still using the standard tool-rest system, so you can turn larger-diameter work. (See photo, above.)

Spindle Locks and Indexing Features

Lathes with locking spindles make it easier to remove faceplates and chucks. Indexing heads let you lock the headstock in graduated increments for laying out flutes, spirals and other decorative work.

Mini lathes are benchtop machines designed for small-scale turning. See "Shop Tested: Mini Lathes," AW #52.)

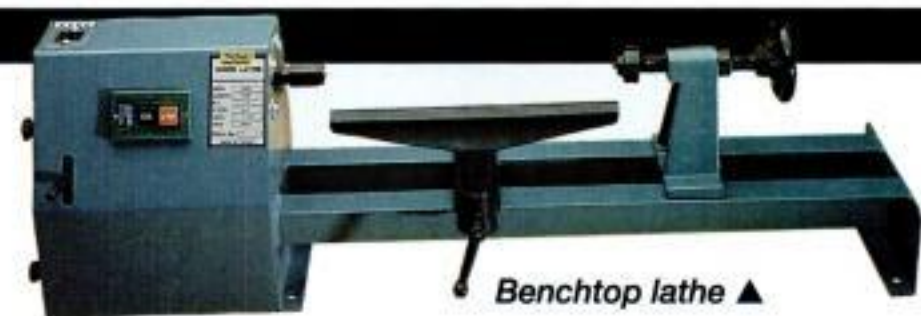
Copy or "duplicator" lathes are designed for the quick and efficient production of duplicate turnings.

Mini lathe ▼

BENCHTOP LATHES

Less expensive than stationary models, most benchtop lathes have less capacity and less stability than their big brothers. This makes them a good choice for light spindle work and other small jobs.

Because of its lighter weight, a benchtop lathe must be bolted securely to a sturdy



Benchtop lathe ▲

workbench or base to dampen vibration. A benchtop lathe is a good choice if you plan to

do turning work only occasionally, and if limited space and lower cost are important.



options worth having

"Live" center for the tailstock. This spinning center prevents burning the tailstock end of your workpiece.

Jacobs-type drill chuck. This three-jaw chuck can hold drill bits for horizontal boring.

Screw chuck. The deep threads on this chuck are useful for holding medium-sized log sections for bowl turning.

Three- or four-jaw chuck. Adjustable jaws grip a variety of diameters for faceplate work.

lathes

New models in red.



Nova Comet



Record CL3/36X30C



Grizzly G5047



Jet JWL-1236



Vicmarc VL300

Brand & Model	List Price	Capacity: Swing x Length (in.)	Spindle Dia. (in.) x tpi	Bed Type	Out-board Turning	Drive Type	Rpm	HP	Weight (lbs.)	Comments & Features
Nova Comet	\$400	10 x 12	1 x 8	CI	N	SP-6	540 - 3,600	—	60	Motor not incl.
Reliant DD70	150	10 x 20	3/4 x 10	TS	N	SP-4	980 - 3,010	1/2	64	6-in. faceplate incl.
General 160	975	12 x 15	1 x 8	CI	Y	SP-4	850 - 3,500	—	140	Motor not incl.
AMT 5300	294	12 x 34	3/4 x 16	CI	Y	RD	600 - 2,400	1/2	177	Steel stand incl.
AMT 4370	246	12 x 36	3/4 x 16	CI	N	SP-5	275 - 3,065	—	100	Motor not incl.
Craftsman 22816	350	12 x 36	3/4 x 16	TS	N	SP-4	875 - 3,450	1/2	84	
Delta 46-700	598	12 x 36	1 x 8	CI	Y	RD	500 - 2,000	3/4	125	Improved swiveling headstock.
Record CL1/36X15C	741	12 x 36	3/4 x 16	ST	Y	SP-3	540 - 2,440	1/3	152	Swiveling headstock.
Record CL3/36X30C	1,257	12 x 36	3/4 x 16	ST	Y	SP-5	510 - 2,400	3/4	190	Swiveling headstock.
Bridgewood BW-1240	209	12 x 37	3/4 x 16	TS	Y	SP-5	575 - 3,580	3/4	80	
Tradesman 8235	179	12 x 37	3/4 x 16	AL	Y	SP-5	575 - 3,580	3/4	69	6- x 12-in. tool rests; 4-in faceplate.
Vega 1200	580	12 x 37	3/4 x no threads*	ST	N	SP-8	275 - 3,900	1/2	115	Reverses for sanding; guard.
Grizzly G5047	249	12 x 38	3/4 x 16	TS	N	SP-3	1,035 - 3,450	1/2	70	Spindle index 15°.
Poole Wood PW38/40	2,350	14 x 40	1 1/4 x 8	TS	Y	ED	0 - 2,750	1	330	Swiveling headstock.
Record CL5/12X15C	646	15 x 12	3/4 x 16	ST	Y	SP-3	540 - 2,440	1/3	127	Swiveling headstock.
Grizzly G1025	159	15 x 38 1/4	1 x 8	ST	N	SP-4	980 - 3,010	1/2	70	Spur center & faceplate.
Woodfast M408-B	1,595	16 x 16	1 1/4 x 8	CI	Y	SP-5	370 - 2,700	—	250	Motor not incl.
Nova 3000	750	16 x 24	1 x 8	CI	N	SP-8	215 - 3,600	—	150	Motor not incl.
Hegner 200S	1,599	16 x 36	33mm x NA	ST	Y	SP-5	400 - 2,800	3/4	125	Swiveling headstock; index head; legs opt.
Woodfast M908-B	1,695	16 x 39	1 1/4 x 8	CI	Y	SP-5	370 - 2,700	—	300	Motor not incl.
Record CL2/36X18C	1,079	18 x 36	3/4 x 16	ST	Y	SP-3	550 - 2,475	1/2	186	Swiveling headstock.
Woodfast M410-B	1,750	20 x 16	1 1/4 x 8	CI	Y	SP-5	370 - 2,700	—	250	Motor not incl.
Record CL3/48X30C	1,380	30 x 48	3/4 x 16	ST	Y	SP-5	515 - 2,420	3/4	200	Swiveling headstock.
Jet JWL-1236	749	12 x 34 1/2	1 x 8	CI	Y	RD	550 - 3,000	3/4	183	Swiveling headstock; indexing capabilities.
Delta 46-701	649	12 x 36	1 x 8	CI	Y	RD	500 - 2,000	3/4	150	Improved swiveling headstock.
Woodtek 829806	1,050	12 x 37 1/2	1 x 8	CI	Y	RD	360 - 2,100	3/4	285	Outboard extension; tool-rest base.
Delta 46-612	3,781	12 x 38	1 x 8	CI	Y	RD	340 - 3,200	1	588	Safety shield included.
General 160-1-M1	1,530	12 x 38	1 x 8	CI	Y	SP-4	850 - 3,500	3/4	255	
General 160-2-M2	1,815	12 x 38	1 x 8	CI	Y	RD	500 - 3,000	3/4	370	
General 260	2,734	12 x 38	1 1/4 x 8	CI	Y	SP-4	600 - 2,800	1	610	Riser kit available.
General 260-1	2,948	12 x 38	1 1/4 x 8	CI	Y	RD	375 - 3,300	1	630	Riser kit available.
General 260VD	3,399	12 x 38	1 1/4 x 8	CI	Y	ED	5 - 3,000	1	630	Riser kit available.
Bridgewood BW-100WL	499	12 x 39	3/4 x 16	TS	Y	SP-5	578 - 3,580	3/4	114	Swiveling headstock.
Delta 46-221	2,019	12 x 39	1 x 8	CI	Y	SP-4	915 - 3,260	3/4	305	Safety shield included.
Delta 46-541	2,315	12 x 39	1 x 8	CI	Y	RD	340 - 3,600	3/4	410	Safety shield included.
Robert Sorby RS2	1,950	13 x 24	1 x 8	ST	Y	SP-5	265 - 2,400	1	165	Swiveling headstock.
Robert Sorby RS3	2,020	13 x 36	1 x 8	ST	Y	SP-5	265 - 2,400	1	175	Swiveling headstock.
Robert Sorby RS4	2,070	13 x 48	1 x 8	ST	Y	SP-5	265 - 2,400	1	185	Swiveling headstock.
Robert Sorby RS6	2,200	13 x 72	1 x 8	ST	Y	SP-5	265 - 2,400	1	195	Swiveling headstock.
Grizzly G1067	449	13 3/4 x 40	1 x 12	CI	Y	RD	600 - 2,100	1/2	200	Swiveling headstock.
Transpower HD1500	625	14 x 39	1 x 12	CI	Y	SP-6	560 - 3,500	1	480	Sanding disc.
Grizzly G1495	695	14 x 40	1 x 12	CI	Y	RD	500 - 3,000	3/4	275	Accepts copy attach.
Lobo CL-1140	639	14 x 40	1 x 12	CI	Y	RD	560 - 3,600	3/4	280	Sanding disc.
Star S4600	445	14 x 40	1 x 10	CI	Y	RD	600 - 2,100	1/2	185	Swiveling headstock.
Star S4602	695	14 x 40	1 x 12	CI	Y	RD	500 - 3,000	3/4	265	Opt. copier.
Transpower CP1000	320	14 x 40	1 1/8 x 12	CI	Y	SP-3	860 - 3,096	3/4	180	Sanding disc.
Vega 1446	1,255	14 x 46	1 1/8 x 8	TS	Y	RD	320 - 3,400	1	375	Guard.
Vega 1553	1,710	15 x 53	30 mm x no threads	TS	Y	RD	320 - 3,400	1	285	Reverses for sanding; guard.

BENCHTOP

FLOOR

KEY: MT = Morse taper, OD = outside diameter. Bed Type: AL = aluminum, CI = cast iron, ST = steel, TS = tubular steel, WO = wood. Drive Type: ED = electronic, RD = Reeves drive, SP-# = step pulleys - # of speeds. Y = yes. N = no. — = not applicable. *Setscrew secures faceplates and chucks.

Chart continued on page 100.

See page 144 for listing of manufacturers.

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CIRCLE NO. 83 ON PRODUCT INFORMATION FORM

lathes

New models in red.



Woodfast M408-5



Carba-Tec



Vega 24



VB36

See page 144
for listing of manufacturers.

	Brand & Model	List Price	Capacity: Swing x Length (in.)	Spindle Dia. (in.) x tpi	Bed Type	Out-board Turning	Drive Type	Rpm	HP	Weight (lbs.)	Comments & Features
FLOOR	Vega 1596	\$2,625	15 x 96	30 mm x no threads	TS	Y	RD	320 - 3,400	1 1/2	380	Reverses for sanding; guard.
	Woodfast M408-5	2,595	16 x 16	1 1/4 x 8	CI	Y	SP-5	370 - 2,700	1 1/2	425	
	Woodfast M408-V	2,695	16 x 16	1 1/4 x 8	CI	Y	ED	0 - 2,750	1	450	DC motor.
	Vicmarc VL300	3,195	16 x 24	1 1/4 x 8	CI	Y	ED	150 - 2,500	1 1/2	600	
	Hegner 200	2,495	16 x 39	33mm x NA	ST	N	SP-4	800 - 2,800	3/4	250	Accepts copy attachments.
	Woodfast M908-V	2,895	16 x 39	1 1/4 x 8	CI	Y	ED	0 - 2,750	1 1/2	550	
	Woodfast M908-5	2,750	16 x 39	1 1/4 x 8	CI	Y	SP-5	370 - 2,700	1 1/2	550	
	Delta Top-Turn 46-860	3,603	16 x 40	1 x 8	CI	Y	SP-5	350 - 3,000	1 1/2	410	Modular bed sections; safety shield included.
	Total Shop 89570	695	16 x 40	5/8 x no threads*	TS	Y	RD	850 - 5,200	1 1/2	240	Sliding tool rest; sliding power head.
	Hegner 200/1250	2,895	16 x 49	33mm x NA	ST	N	SP-4	800 - 2,800	3/4	290	Accepts low-volume copy attachments.
	MVM T-1500	3,490	16 x 59	#4 MT on OD	ST	Y	SP-4	720 - 3,100	2	495	With reverse.
	Conover Deluxe	2,394	16 x unlim.	1 1/2 x 8	WO	Y	SP-4	600 - 2,600	1 1/2	350	Wood bed.
	Conover Master Turner	2,894	16 x unlim.	1 1/2 x 8	WO	Y	ED	0 - 2,600	1 1/2	350	Wood bed; opt. reverse.
	Woodfast M410-V	2,975	20 x 16	1 1/4 x 8	CI	Y	ED	0 - 2,750	1 1/2	475	DC motor.
	Powermatic 3520	4,191	20 x 34 1/2	1 1/4 x 8	CI	Y	ED	0 - 3,200	2	650	Headstock slides entire length of bed.
	Oneway 2036	4,300	20 x 36	33 mm x 3.5 ST threads/cm.		Y	ED	24 - 3,200	1 1/2	650	AC electronic variable speed.
	Woodfast M910-B	1,895	20 x 39	1 1/4 x 8	CI	Y	SP-5	370 - 2,700	—	300	Motor not incl.
	Woodfast M910-V	3,150	20 x 39	1 1/4 x 8	CI	Y	ED	0 - 2,750	1 1/2	575	
	Vicmarc VL339	3,695	24 x 45	1 1/4 x 8	CI	Y	ED	150 - 2,500	1 1/2	700	
MINI	Klein Mini Lathe	349	5 x 12	3/4 x 16	AL	N	SP-6	500 - 5,200	—	8	Motor not incl.; threading jig opt.
	Carba-Tec	200	6 x 12	3/4 x 16	CI	N	SP-4	860 - 3,475	—	36	Motor not incl.; duplicator available.
	Carba-Tec II	270	6 x 12	3/4 x 16	CI	N	ED	860 - 4,500	1/8	36	Duplicator opt.
	Ryobi ML618	250	6 1/4 x 18	3/4 x 16	TS	Y	ED	500 - 2,500	1/3	29	Faceplate incl.; duplicator opt.
	Sherline 4000	455	7 x 14	3/4 x 16	ST	Y	ED	30 - 3,000	1/2	30	Motor incl.; electronic spd. control.
	Record RPML 300CL	459	8 1/2 x 12	3/4 x 16	CI	Y	SP-3	540 - 2,400	1/3	77	Swiveling headstock.
	Zyliss Torno	160	8 3/4 x 23 3/4	—	TS	N	—	—	—	10	Uses portable drill.
	Vicmarc	350	9 x 12	1 x 8	CI	N	SP-5	500 - 3,600	—	48	Motor not incl.
	Vicmarc VL100	430	9 x 12	1 x 8	CI	N	SP-6	685 - 4,280	—	58	Motor not incl.; DC ED available.
COPY	MVM T-1500C	5,375	8 x 39 3/8	#4 MT on OD	ST	Y	SP-4	720 - 3,100	2	595	Semi-automatic, with reverse.
	MVM T-1500CA	7,200	8 x 39 3/8	#4 MT on OD	ST	Y	SP-4	720 - 3,100	2	625	Automatic, with reverse.
	Vega 12D36	1,205	10 x 36	3/4 x no threads*	TS	N	SP-8	275 - 3,900	1/2	175	Reverse; copier; cutter; guard.
	Vega 15D48	2,470	13 x 48	30mm x no threads*	TS	Y	RD	320 - 3,400	1	350	Reverse; copier; cutter; guard.
	Lobo CL-1000	699	13 x 40	1 x 12	TS	Y	SP-3	995 - 2,970	2	290	Sanding disc.
	Vega 15D96	3,675	13 x 96	30mm x no threads*	TS	Y	RD	320 - 3,400	1 1/2	475	Reverse; copier; cutter; guard.
	Grizzly G1174	395	14 x 40	1 1/8 x 12	ST	Y	SP-3	860 - 3,096	1/2	180	Sanding disc.
	Mini Max T124	2,795	16 x 47	1 x #2 MT	TS	Y	SP-4	680 - 3,000	1	375	Copier; cutters.
	Record CLB22	611	22 x none	3/4 x 16	CI	Y	SP-3	450 - 2,000	1/2	108	
	Vega 24	480	24 x none	3/4 x no threads*	TS	N	SP-8	200 - 2,900	1/2	105	Reverse; end access; guard.
BOWL	Nichols Custom Bowl Lathes	4,600 & up	26 - 50 x 24 - 144	1 - 2 1/4 x 8	TS	N	ED or SP-3-8	0 - 2,200	1 1/2 & up	900 & up	Custom built to customer specs.
	Robert Sorby RS1	1,595	30 x none	1 x 8	ST	Y	SP-5	265 - 2,400	3/4	155	#2 MT; swiveling headstock.
	VB36	4,495	36 x none	Bayonet	CI	Y	ED	50 - 2,630	2	600	Opt. tailstock.

KEY: MT = Morse taper, OD = outside diameter. Bed Type: AL = aluminum, CI = cast iron, ST = steel, TS = tubular steel, WO = wood. Drive Type: ED = electronic, RD = Reeves drive, SP-# = step pulleys - # of speeds. Y = yes, N = no, — = not applicable. *Setscrew secures faceplates and chucks.

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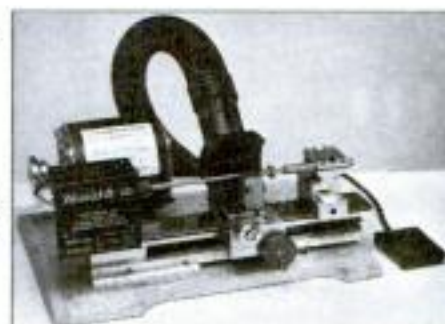
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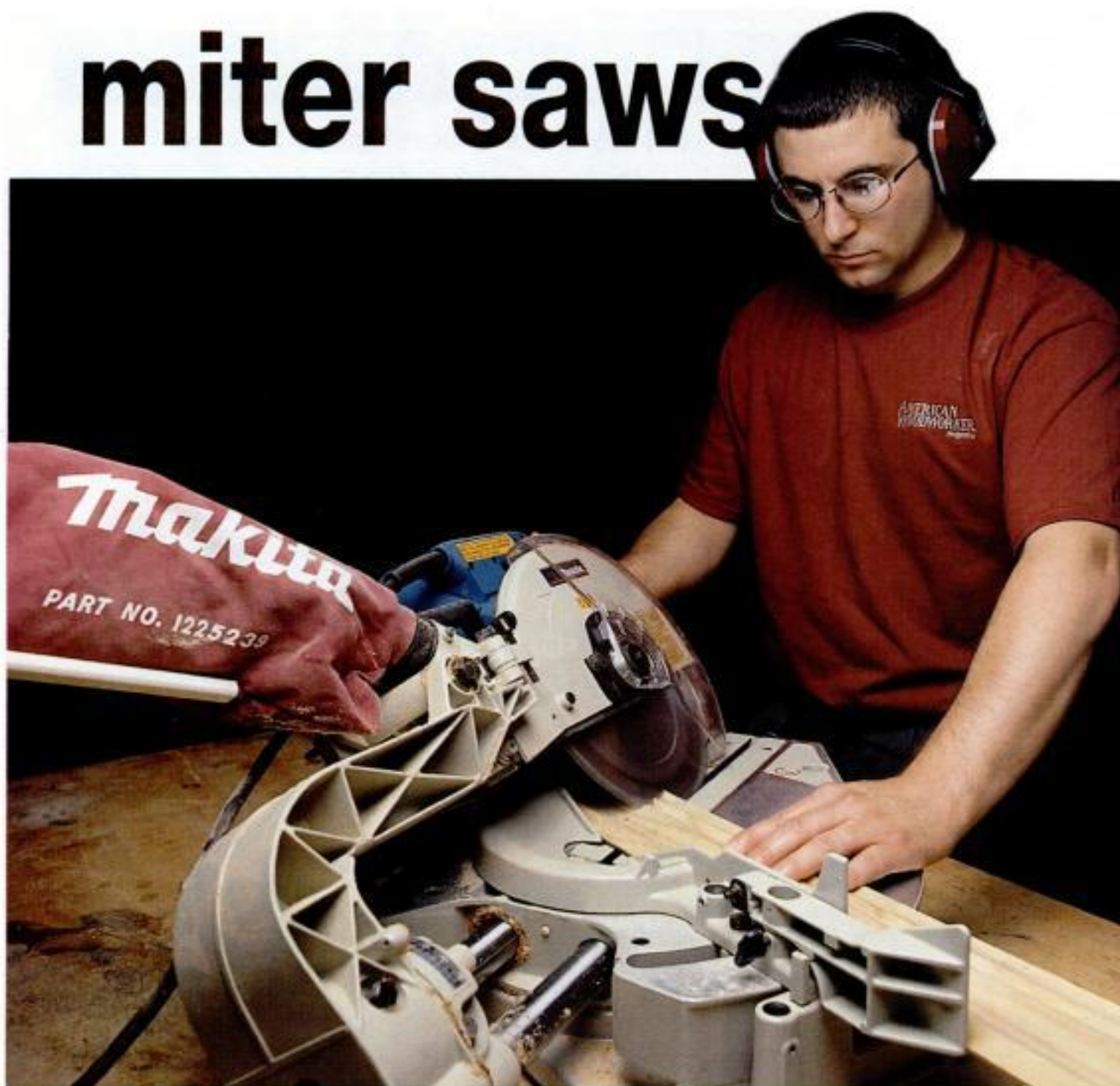
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CIRCLE NO. 107 ON PRODUCT INFORMATION FORM

miter saws



Quick and exact. Nothing beats a miter saw for fast, precise crosscuts and miters. This sliding compound saw can crosscut stock up to 12 in. wide.

miter saws, often called “chop saws,” have mitered and beveled their way to become highly prized tools in workshops and on jobsites. It’s easy to see why. These portable saws can handle everything from trimming studs to mitering picture frames and cutting crown moldings. Chop saws excel at making precise cuts at various angles and then quickly and reliably adjusting back to square.

The size of a miter saw is based on its blade diameter. Saws come in sizes ranging from 6½ in. to 15 in. Larger saws have greater cutting capacity. [\(See chart, page 104.\)](#) Conventional chop saws are designed to handle cutoff work in relatively narrow stock—under 6 in. wide. Sliding compound-miter saws can slice through stock up to 12 in. wide.

3 types of miter saws

CONVENTIONAL SAWS

These machines are designed for cutting miters from 0° to 45° (or more on some machines). Most 10-in. saws can cut a 2x6 or 4x4 at 90° and a 2x4 at 45°.



COMPOUND SAWS

This type of saw has a rotating table to make miter cuts, just like a conventional miter saw. But it can also make bevel cuts, thanks to a head that tilts 45° (or more) to one or both sides. By combining bevel and miter cuts, this type of saw can make compound miters. Capacities are similar to those of conventional miter saws.

Compound-miter saws are especially useful for cutting wide baseboard trim, crown molding and other cornice treatments that require compound cuts.



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features to consider

Adjustments

Look for smooth-working miter and bevel adjustments and easy-to-read scales. Large, accessible miter and bevel locking mechanisms make a difference when you need to switch angle settings frequently. Similarly, detents, or stops, are useful for homing in on common angles such as 0°, 22½° and 45°. Some compound saws also have miter detents at 31.6° for cutting standard crown moldings.

Other handy features include spindle locks for one-wrench blade changing and—on sliding compound saws—depth stops for making stopped cuts to a precise depth. (See top right photo.)

Fences

All miter saws have a split fence design with a gap in the middle for the blade. On some saws, this gap is too wide to safely support short stock, so you'll need to attach a wooden auxiliary fence. Some saws offer an adjustable fence.

Safety Features

Look for a blade guard that retracts smoothly as you pivot the blade into the work. Also, look for an electric brake that stops the blade when you release the on-off switch or press a button. Some saws have a safety button that must be depressed before you can turn on the saw.

Dust Busting

Most saws come with a dust bag or a vacuum port, or both. Hooking a shop vacuum up to the port is much more effective for controlling dust than using a bag.



Dado depth. On sliding compound saws, a depth-stop mechanism is good for dadoing, or whenever you need precise cuts to a certain depth.



Stops and scales. A solid wedge-and-slot design and easy-to-read scales on the Bosch sliding compound saw make for precise mitering.

SLIDING COMPOUND SAWS

Like the compound-miter saw, this type of miter saw has a head assembly that rotates and tilts for compound cutting. Three of these saws, the Makita LS1211, DeWalt DW708 and Hitachi C10FS, tilt both left and right.

The head on a sliding saw is mounted on a rail system that lets it slide forward and back. This increases crosscutting capacity to just over 12 in. on some models. To operate the saw, you pull the elevated blade toward you, pivot it down into the front edge of the stock, then push it

back toward the fence to complete the cut. This "chop and push" motion is safer than a radial-arm saw.



options worth having

A premium blade. Carbide-tipped, finish-cutting crosscut blades cut more smoothly than steel blades. A 10-in. blade with 60 or more teeth and a low hook angle makes glass-smooth cuts in molding and thin stock. For sliding saws, get a blade with a 0° or 5° negative hook. (For more on blades, see AW #32.)

Workstation. No machine benefits more from a dedicated stand than the chop saw. A well-designed workstation will include extension tables and fences. Aftermarket stands are available, or you can make your own. (See AW #31.)

Table extensions and adjustable stops. If you don't plan on a shop-made work table, invest in a set of factory-made extension rails and stops to support long stock and make repetitive cuts accurately.

Work clamps. These accessory clamps secure your work against the table and the fence.

for more info

Check out the detailed test results in "Shop Tested: Sliding Compound-Miter Saws," AW #53.

miter saws

New models in red.



Ryobi TS230



Craftsman 23514



Delta 36-235



Pro-Tech CS7212

Brand & Model	List Price	Blade Dia. (in.)	Maximum Crosscut T x W (in.)	Miter Adj. Range (° L, ° R)	Bevel Adj. Range (° L, ° R)	Depth Stop	Amps	Weight (lbs.)	Comments & Features
CONVENTIONAL MITER									
Black & Decker 1710	\$169	10	2 x 6	45, 45	—	N	12	28	Adjustable miter detents.
Craftsman 23511	180	10	2 ⁵ / ₈ x 5 ³ / ₄	49, 49	—	Y	12	32	104-tooth blade.
Delta 34-080	294	10	2 ¹ / ₂ x 5 ³ / ₄	47, 48	—	N	13	55	Replaceable table insert.
Delta 36-070	217	10	2 ¹ / ₄ x 5 ³ / ₄	48, 50	—	N	13	28	Electric blade brake; carry handle.
Delta Sidekick 36-090	310	10	2 ¹ / ₂ x 5 ¹ / ₂	47, 47	—	N	12	30	Adjustable handle.
Jepson 9211D	648	10	3 ¹ / ₈ x 3 ¹ / ₈	47, 47	—	N	15	54	Metal-cutting saw.
Jepson 9211NB	378	10	3 ¹ / ₈ x 4 ¹⁵ / ₁₆	47, 47	—	Y	15	58	60-tooth carbide blade included.
Makita LS1030	428	10	2 ³ / ₄ x 4 ¹⁵ / ₁₆	45, 57	—	Y	12	23.3	Quick-release work clamp.
Milwaukee 6490-6	505	10	2 ¹ / ₂ x 5 ⁹ / ₁₆	51, 59	—	Y	15	31.5	Extra-tall fence.
Milwaukee 6491	605	10	2 ¹ / ₂ x 5 ⁹ / ₁₆	51, 59	—	Y	15	32.3	80-tooth carbide blade.
Ryobi TS254	169	10	3 ⁹ / ₁₆ x 5 ⁹ / ₁₆	46, 46	—	Y	12.5	34	Carbide blade.
DeWalt DW704	570	12	2 ¹ / ₂ x 7 ⁷ / ₈	48, 48	—	N	13	36	Extra-tall fence; CM.
Hitachi C15FB	1,346	15	4 ³ / ₄ x 7 ⁹ / ₃₂	52, 52	—	Y	15	55	Center-beam construction for accuracy.
COMPOUND-MITER									
Craftsman 23458	160	8 ¹ / ₄	2 ¹ / ₁₆ x 5 ¹ / ₂	49, 49	45, 0	Y	9	38	Crosscuts finished 2x6.
Delta 36-040	190	8 ¹ / ₄	2 ¹ / ₈ x 5 ¹ / ₈	47, 47	47, 2	N	9	16	Table insert.
Pro-Tech 7203	199	8 ¹ / ₄	2 ¹ / ₈ x 5 ¹ / ₈	45, 45	45, 0	N	9	18.7	Electric blade brake; table insert.
Tradesman 8325	129	8 ¹ / ₄	2 ¹ / ₈ x 5 ¹ / ₄	45, 60	45, 0	Y	9	28	Carbide blade.
Craftsman 23522	220	10	2 ⁵ / ₈ x 5 ³ / ₄	49, 49	45, 0	Y	15	35	Arbor lock; aluminum construction.
Craftsman 23530	220	10	2 ⁵ / ₈ x 5 ³ / ₄	49, 49	45, 0	Y	15	65	Cast-iron construction.
Delta 36-075	256	10	5 ³ / ₄ x 2 ³ / ₈	47, 47	48, -3	N	13	28	Dust bag included.
Delta Sidekick 36-210	344	10	2 ¹ / ₂ x 5 ⁵ / ₈	47, 47	47, 2	N	15	30	Adjustable handle.
Delta 36-220	294	10	2 ³ / ₄ x 5 ¹ / ₈	47, 47	47, 2	N	15	60	Work clamp.
Hitachi C10FC	533	10	2 ⁵ / ₈ x 5 ³ / ₄	60, 45	45, 0	Y	15	32	Brake.
Makita LS1040	528	10	2 ³ / ₄ x 5 ¹ / ₈	45, 52	45, 0	Y	15	24.2	
Milwaukee 6494-6	595	10	2 ¹ / ₂ x 5 ⁹ / ₁₆	51, 59	50, 3	Y	15	39	Adjustable fence.
Milwaukee 6495	725	10	2 ¹ / ₂ x 5 ⁹ / ₁₆	51, 59	50, 3	Y	15	37.5	Stop gauge; vise.
Pro-Tech 7208 Type II	299	10	2 ³ / ₄ x 5 ³ / ₄	50, 50	47, 0	N	15	37	Extension wings; work clamp; stop block.
Ryobi TS230	189	10	3 ⁹ / ₁₆ x 5 ⁹ / ₁₆	46, 46	45, 0	Y	13	34	Includes miter vise, carbide blade.
Tradesman 8328	159	10	2 ⁵ / ₈ x 5 ³ / ₄	45, 45	45, 0	Y	13	34	Extension wings; work clamp; carbide blade.
Tradesman 8333	199	10	2 ⁵ / ₈ x 5 ³ / ₄	45, 60	45, 0	Y	15	49	Extension wings; work clamp; carbide blade.
Craftsman 23514	320	12	2 ¹ / ₂ x 7 ⁷ / ₈	49, 49	45, 0	Y	15	52	Thin-kerf carbide blade.
Delta 36-235	480	12	8 x 2 ¹ / ₂	48, 48	47, 2	N	15	50	Extra-tall fence; CM.
DeWalt DW705	734	12	2 ¹ / ₂ x 7 ⁷ / ₈	48, 48	48, 0	N	13	38	Extra-tall fence; CM.
Makita LS1220	1,800	12	3 ⁷ / ₈ x 6	48, 48	45, 0	Y	15	37.5	CM.
Pro-Tech CS7212	499	12	7 ⁷ / ₈ x 5 ⁷ / ₈	49, 49	47, -2	N	15	41.4	Internal blade guard; CM; ball detents.
Skilsaw HD3812	664	12	2 ¹ / ₂ x 7 ⁷ / ₈	52, 52	47, -3	Y	15	43	Detent override; CM.

KEY: Comments: CM = has 31.6° miter detent for cutting crown moldings. Y = yes. N = no. — = not applicable.

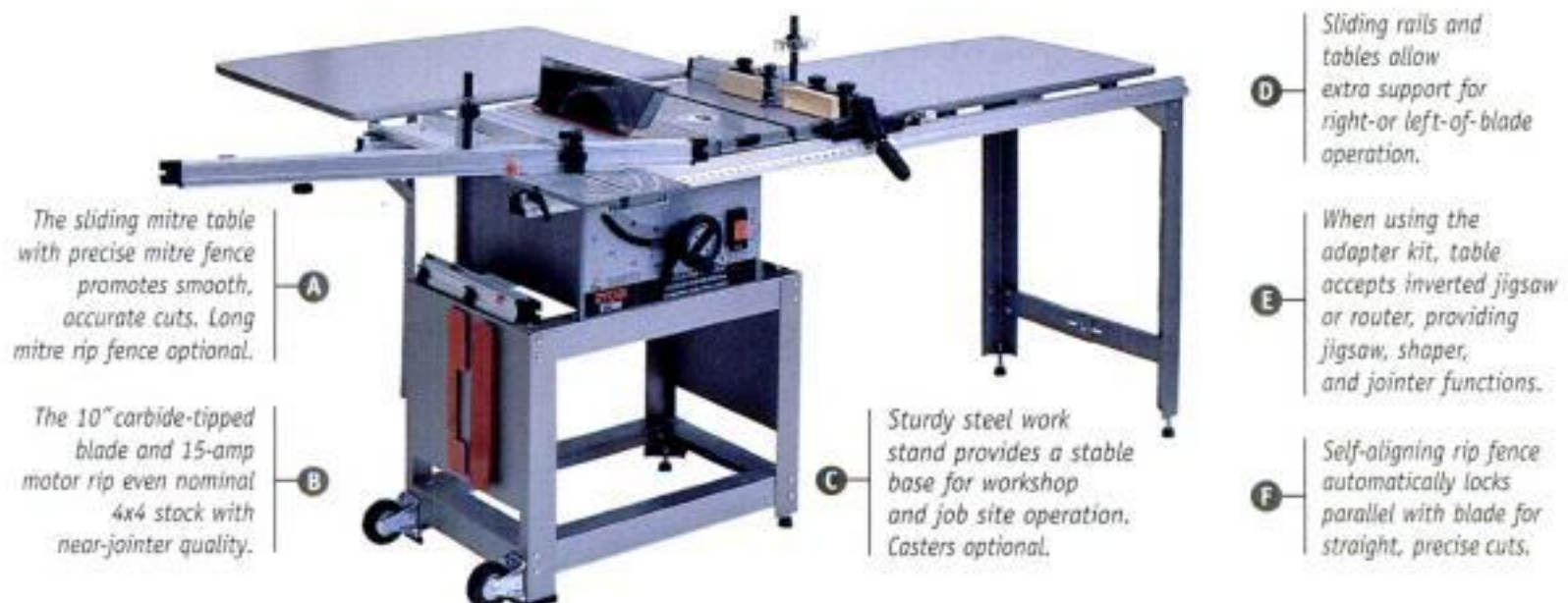
[Continued on page 106.](#)

See page 144 for listing of manufacturers.



**WE'RE NOT SAYING THE HEAVENS OPENED UP THE MOMENT THE
BT3000 WAS CREATED. THEN AGAIN, IT WAS RATHER BRIGHT THAT DAY.**

[Shown with optional accessories.]



The sliding mitre table with precise mitre fence promotes smooth, accurate cuts. Long mitre rip fence optional.

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miter saws

New models in red.



Milwaukee Magnum 6496-6



DeWalt DW708

SLIDING COMPOUND-MITER

Brand & Model	List Price	Blade Dia. (in.)	Maximum Crosscut T x W (in.)	Miter Adj. Range (° L, ° R)	Bevel Adj. Range (° L, ° R)	Depth Stop	Amps	Weight (lbs.)	Comments & Features
Delta Sidekick 33-060	\$541	8 1/2	13 3/4 x 12	47, 47	47, 2	Y	12	42	Frame-and-trim saw; CM.
Delta Sawbuck 33-055	846	8	23 3/4 x 16	47, 47	47, 2	Y	15	96	Frame-and-trim saw; CM.
Craftsman 23494	450	8 1/4	2 1/2 x 12	49, 49	45, 0	Y	10	53.5	Rafter slope; CM; hold-down clamp.
Freud TR215	689	8 1/2	23 3/4 x 11 3/4	45, 45	45, 0	N	9.7	37	Electric blade brake; carbide blade.
Hitachi C8FB2	1,169	8 1/2	28 9/16 x 12	45, 57	47, 0	Y	9.5	38.6	Slide fence and vise.
Ryobi TSS200	389	8 1/2	25 5/8 x 12	45, 60	45, 0	Y	10	43	Triple sliding rail; carbide blade.
Tradesman 8336	349	8 1/2	28 9/16 x 12	45, 45	45, 0	Y	10	39	Extension wings; work clamp; carbide blade.
Bosch 3915	1,114	10	3 1/2 x 12	52, 62	47, -3	Y	13	47	Wedge-&-slot detents; left extension table.
Delta Sidekick 36-250	696	10	35 5/8 x 11 1/2	57, 47	45, 0	Y	15	56	Stand with stock CM supports; work clamp.
Hitachi C10FS	1,627	10	31 1/32 x 12 9/32	45, 57	45, 45	Y	10	44	Tilts left & right; speed control; soft start.
Makita LS1011	995	10	21 5/16 x 12	45, 57	45, 0	Y	12	34.8	Single sliding rail; CM.
Makita LS1013	1,211	10	35 5/8 x 12 3/16	47, 52	45, 45	Y	13	46.5	Two depth stops.
Milwaukee Magnum 6496-6	1,050	10	37 1/16 x 12 3/8	51, 59	48, 3	Y	15	52	Wedge-&-slot detents; 2-way adj. fence.
Milwaukee 6497-6	1,175	10	37 1/16 x 12 3/8	51, 59	48, 3	Y	15	55.5	80-tooth blade; vise; dust bag.
DeWalt DW708	1,210	12	4 1/2 x 12	50, 60	48, 48	Y	13	58	Dust bag optional; CM.
Makita LS1211	1,620	12	31 1/16 x 12 3/16	60, 60	45, 45	Y	15	51.2	Tilts left & right; single sliding rail; CM.
Makita LS1212	700	12	37 7/8 x 12 1/4	45, 60	45, 45	Y	15	48.5	Two depth stops.

KEY: Comments: CM = has 31.6" miter detent for cutting crown moldings. Y = yes. N = no. — = not applicable.

See page 144 for listing of manufacturers.

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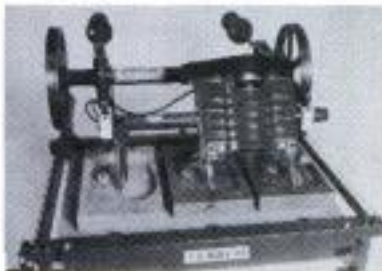
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Model T-110 Dupli-Carver



Model CM614 Sign Carver



Multi-Spindle Carving Machine

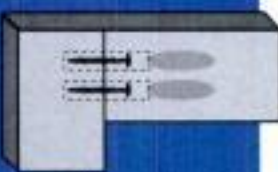
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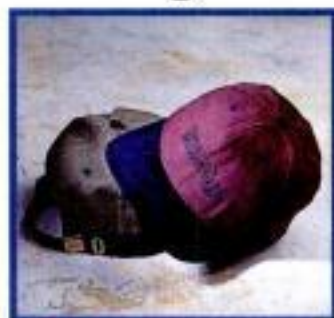
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random-orbit sanders



Sanding versatility. Random-orbit sanders work well for flat and contour sanding, and they leave a scratch-free surface.

if you can only buy one type of sander, this is it. Random-orbit sanders can remove stock aggressively, sand wood to a super-smooth finish, and do plenty of abrasive work in between. With this type of sander, you get power as well as control. Since random-orbit sanders combine rotary and orbital action, they can produce a scratch-free surface, even when sanding across the grain. They do a great job sanding face frames after assembly.

Random-orbit sanders come in electric or pneumatic (air-powered) models. The pneumatic sanders require a big compressor (5 HP or larger) to run. Both types are sized according to the diameter of the abrasive disc they use. 5-in. and 6-in. models are the most common.

4 types of sanders

RIGHT-ANGLE SANDERS

Two-hand operation is a must with these models, which are the most powerful among electric random-orbit sanders. Right-angle models are best-suited for aggressive stock removal.



IN-LINE SANDERS

On this type of sander, the motor is positioned directly above the sanding pad. There are usually two handles, but most in-line models can be used with either one or two hands. This type of random-orbit sander offers a good combination of power, balance and smooth operation; it's the most versatile of the random-orbit sander types.



features to consider

Size

If you plan to do a lot of sanding on large, flat surfaces, look for a 6-in. sander—one that takes 6-in.-dia. discs. For general-purpose sanding, 5-in. discs are the most convenient to use.

Variable Speed Control

Variable speed control allows you to slow down the sander for delicate work like buffing, polishing, or light sanding between finish coats. Variable speed control is also useful for sanding contours, edges and metal. Some models have a speed control dial separate from the trigger switch, so you can change speeds while you're sanding.

Pressure-Sensitive Adhesive (PSA) vs. Hook-and-Loop Discs

Some random-orbit sanders are designed to use pressure-sensitive, adhesive-backed (PSA-type) discs, while others take hook-and-loop discs. Though they're more expensive than the PSA variety, hook-and-loop discs can be removed and reused easily. Hook-and-loop discs also make it easy to switch grits.

Pad Brake

A pad brake adds convenience because you don't have to wait for the disc to stop spinning before setting down your sander.



Pads, discs and dust extraction. Accessory pads (bottom right) let you use your sander for buffing and polishing. On some sanders, dust is extracted via holes in the abrasive discs (bottom left). The plastic dust skirt (center) fits around the sander to promote dust collection. For optimum dust control, connect your sander to a shop vacuum with a flexible hose (top).

PALM-GRIP SANDERS

If you plan to do mostly finish sanding, here's the type to buy. Palm-grip models are more compact than other types, and designed for one-hand use.



PNEUMATIC SANDERS

Air-powered sanders are usually more aggressive than electric models, and they tend to run more smoothly. They're also smaller and lighter, so they're easier to control and less tiring to use. Pneumatic sanders require a 5-HP or larger air compressor to run efficiently.



options worth having

Replacement backing pads. For sanding contoured parts, you'll want to use a soft backing pad.

Abrasive and polishing pads. Use woven abrasive discs for sanding between coats of finish. Sponge pads are available for polishing.

Suction hood and vacuum hose. Adding a suction hood will increase your sander's dust-collection efficiency. For dust control during heavy-duty sanding, use a vacuum hose to connect your sander to a dust bag or shop vacuum.

random-orbit sanders: electric

New models in red.

For pneumatic models, see page 112.



Bosch 3725DVS



Ryobi RS112



DeWalt DW423



Milwaukee 6019-6



Porter-Cable 332

See page 144 for listing of manufacturers.

Brand & Model	List Price	Pad Dia. (in.)	Pad Type	Pad Brake	Orbits per Minute	Dust Collection	Amps	Weight (lbs.)	Comments & Features
Black & Decker RO100	\$39	5	HL	Y	12,000	DB	2	3.5	Pad brake controls pad speed.
Milwaukee 6125	225	5	PSA	N	10,000	OPT	5.5	5	
Porter-Cable 7334	225	5	PSA	N	6,000	VP	3.7	5.5	Dust skirt opt.
Porter-Cable 7335	260	5	PSA	N	2,500 - 6,000	OPT	3.7	5.5	Dust skirt, HL pad opt.
Porter-Cable 97335	274	5	HL	N	2,500 - 6,000	VP	3.7	8	Dust skirt opt.; case; dust hose; adaptor.
Porter-Cable 97355	280	5	HL	N	2,500 - 6,000	VP	3.7	5.5	Case; dust hose; adaptor.
Bosch 1370DEVS	484	6	HL	Y	4,800 - 12,000	DB, VP	5	5	2-way drive system.
DeWalt DW443	262	6	HL	Y	4,300 - 6,800	DC, VP	4.3	5.7	Rubber-covered gear case.
DeWalt DW444	262	6	PSA	Y	4,300 - 6,800	DC, VP	4.3	5.7	Rubber-covered gear case.
Fein MSF 636-1	670	6	HL	N	7,500	VP	4.7	3.7	98% dust containment.
Milwaukee 6126	230	6	PSA	N	10,000	OPT	5.5	5	Paddle on-off switch.
Porter-Cable 7336	265	6	PSA	N	2,500 - 6,000	OPT	3.7	5.75	Dust skirt, HL pad opt.
Porter-Cable 97366	290	6	HL	N	2,500 - 6,000	VP	3.7	5.75	Case; dust hose; adaptor.
Ryobi RS115	70	4 1/2	HL	N	11,000	DB	2	3	Buffing pad opt.
Bosch 3107DVS	179	5	HL	Y	4,500 - 13,000	DB, VP	3.3	5	Adjustable front handle.
Bosch 3725DVS	272	5	HL	Y	4,500 - 12,000	DB, VP	3.3	4.4	
Bosch B7255	165	5	HL	Y	4,500 - 13,000	DB, VP	3.3	5	Adjustable front handle.
Craftsman 27717	70	5	PSA	Y	13,000	DC	3	3.5	HL pad available.
Hitachi FSV13Y	195	5	HL	N	6,500 - 11,000	DB, VP	2.5	3.7	Case.
Hitachi FSV13YK	223	5	HL	N	6,500 - 11,000	DB, VP	2.5	4.2	Case.
Metabo 0125	239	5	HL	Y	5,000 - 12,000	DB	1.8	5.2	
Milwaukee 6025-20	236	5	HL	Y	5,500	DB, VP	4	4.9	High torque w/ 4:1 gear reduction; 9/32-in. orbit.
Ryobi RS 200	80	5	PSA	Y	13,000	DC	3	4	10-ft. cord.
Skil 7435	118	5	HL	Y	7,000 - 12,000	DB, VP	2.8	3.8	Adjustable front handle.
Wen 18	60	5	HL	N	12,000	DC	2	3	Auxiliary handle.
Bosch 3727DVS	283	6	HL	Y	4,500 - 12,000	DB, VP	3.3	4.6	
Milwaukee 6020-20	270	6	HL	Y	4,000 - 5,500	DB, VP	4	5.1	High torque w/ 4:1 gear reduction, 9/32-in. orbit.
Craftsman 27714	40	4 1/2	PSA	N	11,000	—	2.7	3.3	Sealed on-off switch.
Ryobi RS112	50	4 1/2	HL	N	11,000	—	2	2.1	Sealed on-off switch.
Bosch 1295D	128	5	HL	Y	12,000	DC	2.2	3.5	360° reusable canister; dust-sealed switch.
Bosch 1295DH	155	5	HL	Y	12,000 - 15,000	DC	2.2/2.4	3.5	360° reusable canister; dust-sealed switch.
Bosch 1295DP	128	5	PSA	Y	12,000	DC	2.2	3.5	360° reusable canister; dust-sealed switch.
DeWalt DW420	124	5	PSA	Y	12,000	—	2	3	Sealed on-off switch.
DeWalt DW421	144	5	HL	Y	12,000	DC, VP	2	3.2	Sealed on-off switch.
DeWalt DW422	144	5	PSA	Y	12,000	DC, VP	2	3.2	
DeWalt DW423	170	5	HL	Y	7,000 - 12,000	DC, VP	2	3.2	Electronic variable spd.
Jepson 6250	90	5	HL	Y	11,000	DB	1.9	3	
Makita BO5001	125	5	HL	N	10,000	VP	1.7	2.9	
Milwaukee 6018-6	118	5	PSA	N	12,000	DB, VP	1.8	2.9	Protected switch.
Milwaukee 6019-6	118	5	HL	N	12,000	DB, VP	1.8	2.9	Protected switch.
Porter-Cable 332	133	5	PSA	Y	12,000	—	1.7	3.2	HL pad available.
Porter-Cable 333	148	5	HL	Y	12,000	DC	1.7	3.5	
Porter-Cable 334	148	5	PSA	Y	12,000	DC	1.7	3.5	HL pad available.
Ryobi RS240	39	5	HL	Y	10,000 - 14,000	DB	2.4	3	
Porter-Cable 335	154	6	PSA, HL	Y	12,000	DC	1.7	3.8	Takes PSA or HL pads.
Dynabrade Dynorbital Electric	329	5	PSA	N	10,000	OPT	5.5	4.8	Smaller 3/32-in. orbit.

KEY: Pad Type: HL = hook-and-loop, PSA = pressure-sensitive adhesive. Dust Collection: DB = dust bag, DC = dust canister, VP = vacuum port. Y = yes. N = no. OPT = optional. — = not applicable.

Continued on page 112

TO THOSE OTHER PALM GRIPS CLAIMING TO HAVE A LOT OF POWER, WE HAVE A REPLY: EAT DUST.



Dual-range Swift-Sand™ system lets you shift between fine finishing and high speed stock removal at a button's touch.



Harness the fury of the most powerful random orbit palm grip in the industry.



Integral dampening system regulates pad speed and helps prevent accidental workpiece damage.



This one tool lets you sand dowels flush quickly and finish cross grain and large panels flawlessly.

Introducing The Bosch 1295 series of random orbit palm grip sanders. Three different models all packed with plenty of extra muscle. You could say the playing field for other palm grips just became very uneven.

BOSCH



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random-orbit sanders: pneumatic

New models in red.

For electric models, see page 110.



Aro RS25A-CSV



Dotco 12L1810-05



Craftsman Air Drive 18978

Brand & Model	List Price	Pad Dia. (in.)	Pad Type	Pad Brake	Orbits per Minute	Dust Coll.	Air Required (cfm @ psi)	Weight (lbs.)	Comments & Features	
Coleman Powermate 024-0132SP	\$38	3½ x 6½	PSA	N	8,000	—	6 @ 90	4.4		
Dotco 12L1800-03	248	3½	PSA, HL	N	10,000	OPT	17 @ 90	2.3	Comfort grip.	
Dotco 12L1810-03	305	3 ½	PSA, HL	N	10,000	—	17 @ 90	3.1	Offset handle; exhaust overhose opt.	
Aro RS25A-CSV	270	5	PSA	N	12,000	VP	16 @ 90	1.8	Lube free.	
Aro RS25A-PSV	245	5	PSA	N	12,000	—	16 @ 90	1.8	Lube free.	
Aro RS25A-VLV	300	5	PSA	N	12,000	DB	16 @ 90	1.9	Lube free.	
Dotco 12L1800-05	248	5	PSA, HL	N	10,000	OPT	17 @ 90	2.4	Comfort grip; vacuum opt.	
Dotco 12L1810-05	305	5	PSA, HL	N	10,000	—	17 @ 90	3.1	Offset handle; exhaust overhose opt.	
Dynabrade Dynorbital 5-Inch 2-Hand	305	5	PSA	N	10,000	VP, DB	19 @ 90	2.7	Rubber housing.	
Dynabrade Dynorbital Small Grip Supreme	245	5	PSA	N	10,000	OPT	16 @ 90	2.1	Handle designed for small hands.	
Dynabrade Dynorbital Supreme	245	5	PSA	N	10,000	VP, DB	16 @ 90	2.1	⅜-in. orbit.	
Dynabrade Dynorbital Supreme w/ 3/32 orbit	255	5	PSA	N	10,000	OPT	16 @ 90	2.1	Smaller ⅜-in. orbit.	
Jet JSM-603-5	134	5	PSA	N	10,000	—	14 @ 90	3	HL pad opt.	
Jet JSM-603V-5	146	5	PSA	N	10,000	VP	14 @ 90	3	HL pad opt.	
Master Power 4407	220	5	PSA	N	10,000	—	5.5 @ 90	2.5		
Master Power 4407DF	235	5	PSA	N	10,000	VP	5.5 @ 90	2.5		
Master Power RO51	220	5	PSA	N	10,000	—	5.5 @ 90	2.5		
Master Power RO51DF	235	5	PSA	N	10,000	VP	5.5 @ 90	2.5		
PALM-GRIP	Sioux 790	240	5	PSA	N	10,000	OPT	15-20 @ 90	2.3	Insulated housing cover.
	Sioux 790V	263	5	PSA	N	10,000	VP	16 @ 90	2.3	Insulated housing cover.
	Sioux 790VV	304	5	PSA	N	10,000	DB	15-20 @ 90	2.4	Insulated housing cover; venturi vacuum.
Coleman Powermate 024-0092SP	36	5-6	PSA	N	7,500 - 9,000	—	6 @ 90	4.84		
Coleman Powermate P024-0112SP	46	6	PSA	N	10,000	—	4 @ 90	4.2		
Craftsman Air Drive 18978	70	6	PSA	N	8,500 - 10,000	—	4 @ 90	4	External regulator for precise speed control.	
Dotco 12L1800-06	248	6	PSA, HL	N	10,000	OPT	17 @ 90	2.6	Comfort grip; vacuum opt.	
Dotco 12L1810-06	305	6	PSA, HL	N	10,000	—	17 @ 90	3.1	Offset handle; exhaust overhose option.	
Dynabrade Dynorbital 6-Inch 2-Hand	305	6	PSA	N	10,000	OPT	19 @ 90	2.7	Rubber housing.	
Fein M10000-6	695	6	HL	N	10,000	DC	3 @ 86	2.4	98% dust collection.	
Jet JSG-0402	47	6	PSA	N	10,000	—	4 @ 90	5	HL pad opt.	
Jet JSG-0404	56	6	PSA	N	10,000	—	4 @ 90	4	HL pad opt.	
Jet JSM-603-6	134	6	PSA	N	10,000	—	14 @ 90	3	HL pad opt.	
Jet JSM-603V-6	146	6	PSA	N	10,000	VP	14 @ 90	3	HL pad opt.	
Master Power 4415	255	6	PSA	N	10,000	—	5.5 @ 90	1.5	Feathering throttle for precise control.	
Master Power 4408	220	6	PSA	N	10,000	—	5.5 @ 90	2.6		
Master Power 4408DF	235	6	PSA	N	10,000	VP	5.5 @ 90	2.7		
Sioux 797	240	6	PSA	N	10,000	OPT	15-20 @ 90	2.3	Insulated housing cover.	
Sioux 797V	263	6	PSA	N	10,000	VP	16 @ 90	2.3	Insulated housing cover.	
Sioux 797VV	304	6	PSA	N	10,000	DB	15-20 @ 90	2.4	Insulated housing cover.	
Dynabrade Dynorbital 8-Inch	335	8	PSA	N	10,000	OPT	19 @ 90	4.1	Rubber housing.	
Jet JSG-0414	117	8	PSA	N	2,000	—	5 @ 90	5		

KEY: Pad Type: HL = hook-and-loop, PSA = pressure-sensitive adhesive. Dust Collection: DB = dust bag, DC = dust canister, VP = vacuum port. Y = yes. N = no. OPT = optional. — = not applicable.

See page 144 for listing of manufacturers.

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handling

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operation

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sanding and extended
sandpaper life

Fast
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Action
(12,000 OPM)
for super smooth
sanding

**Model B05010
RANDOM ORBIT
SANDER**

Makita
POWER TOOLS FOR THE LONG RUN

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Before it becomes airborne**



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Dust produced by sanding is immediately sucked away through holes located in the sandpaper, the bottom of the sander's pad, AND around the outside edge of the pad (a FEIN exclusive). The extracted dust is contained by a powerful vacuum.

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When you turn your Fein sander on, the vacuum starts. When you switch your sander off, the vacuum stops... automatically. The Fein Turbo II Vacuum is built to handle large amounts of super-fine dust.

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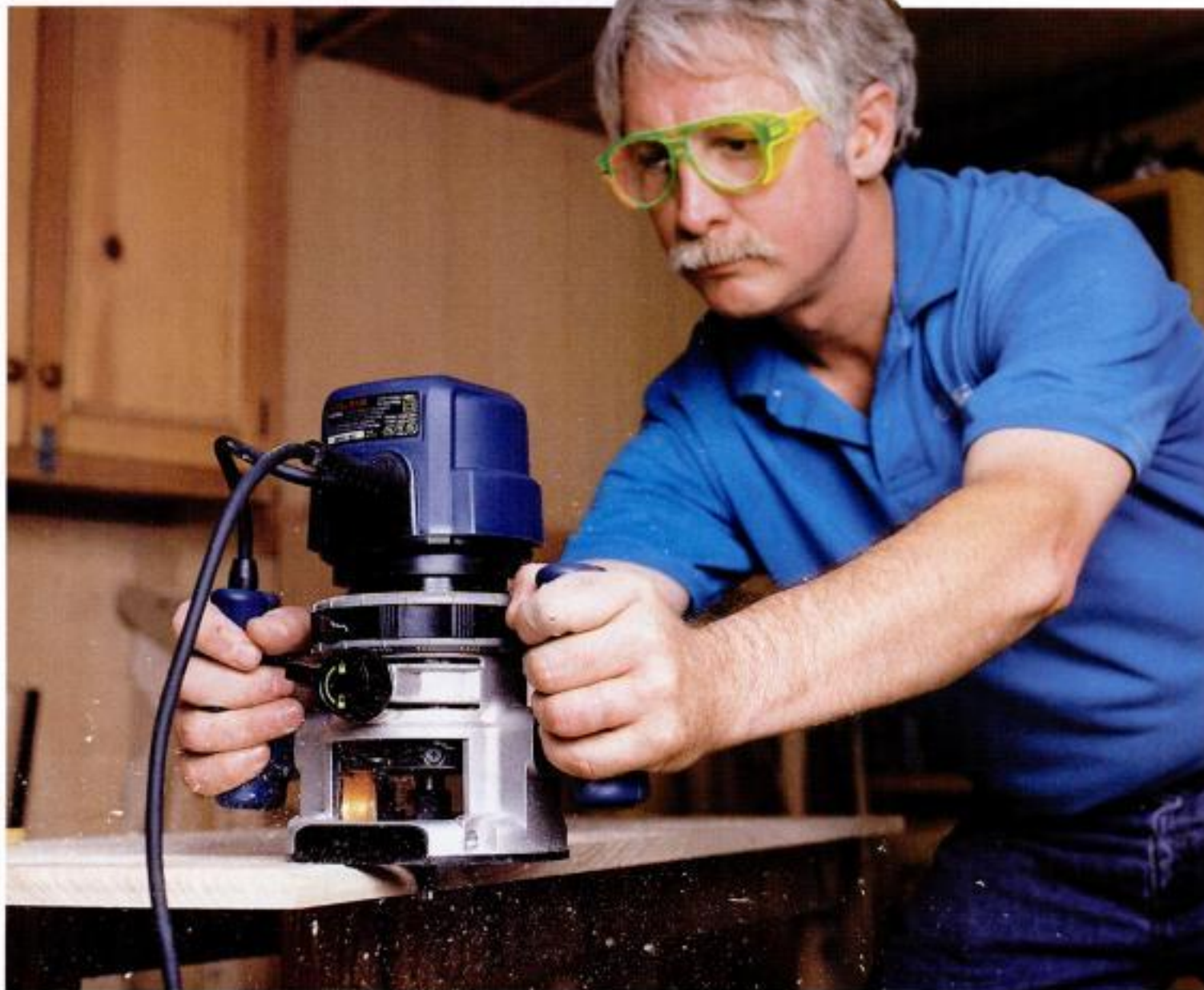
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CIRCLE NO. 28 ON PRODUCT INFORMATION FORM

routers



Lots of possibilities. From edge treatments and joinery to template routing and panel raising, routers are packed with woodworking potential.

LEAD PHOTO BY JOHN HAMEL

a router can handle work that would ordinarily be done on stationary machines—often doing the job more safely, more efficiently and for less money. When handheld, the router can mill a variety of decorative edges and do template work.

Mounted in a router table, this portable power tool performs like a shaper, letting you raise panels, create moldings and mill cope-and-stick profiles for building doors.

The impressive range of available bits, jigs and accessories adds to the possibilities offered by this valuable tool. It's no wonder that many woodworkers own several routers of different sizes—from tiny laminate trimmers (not included here) to 3-HP monsters—to accomplish the range of routing operations.

2 types of routers

FIXED-BASE ROUTERS

With a fixed-base router, you have to adjust cutting depth before turning on the tool. Routers in this category are excellent for routing edges, for making template-guided cuts, and for general hand-held use. Smaller fixed-base routers—in the 1-HP to 1 $\frac{3}{4}$ -HP range—are handy to use with dovetail and other jigs because they're

fairly lightweight. A fixed-base router will also work well mounted in a router table.

For production router work such as edge forming and dadoing, many woodworkers prefer a D-handle router. The trigger-type switch in the handle lets you turn the router on and off without removing your hand from the tool.



Fixed base router



D-handle router

features to consider

Power

Whether you're interested in a plunge router or a fixed-base model, the same basic rule applies: More power means larger size. The smallest routers have motors rated at 1 HP to 1 $\frac{3}{4}$ HP and weigh between 4 and 12 lbs. The most powerful routers have 3-HP or 3 $\frac{1}{2}$ -HP motors, and weigh between 11 and 18 lbs.

For router-table work and for any cutting that involves large bits or dense material, you're better off with a powerful router—one rated at 2 $\frac{1}{2}$ HP or more. These routers can hold hefty bits with $\frac{1}{2}$ -in.-dia. shanks, but with the proper collet, you'll also be able to chuck bits with $\frac{1}{4}$ -in.-dia. shanks.

Weight and bulk are the main disadvantages in a powerful router. These machines are unwieldy to use for certain hand-held operations, especially with dovetail jigs and templates. Many woodworkers end up buying at least two routers: a 1-HP or 1 $\frac{1}{2}$ -HP model that's easy to maneuver, and a larger, more powerful router that can take on heavier shaping and router-table assignments.

Switches and Plunge Locks

Handle-mounted trigger switches are more convenient and safer than body-mounted toggle or rocker switches. But things change when the router is mounted upside down in a table. In this position, a trigger switch may be more difficult to reach than a rocker switch mounted on the body.

On Bosch and Porter-Cable plunge routers, the plunge lock levers are locked until you depress them. On other machines, the locking action is reversed. You'll have to choose which locking action is best for you.

Depth-Adjustment Knob

Setting plunge depth is easier when a plunge router has a depth-adjustment knob. Not all plunge routers have this knob, and on some models it's an option. For extremely precise depth settings, some Bosch and DeWalt models have a calibrated micro-adjustment knob.



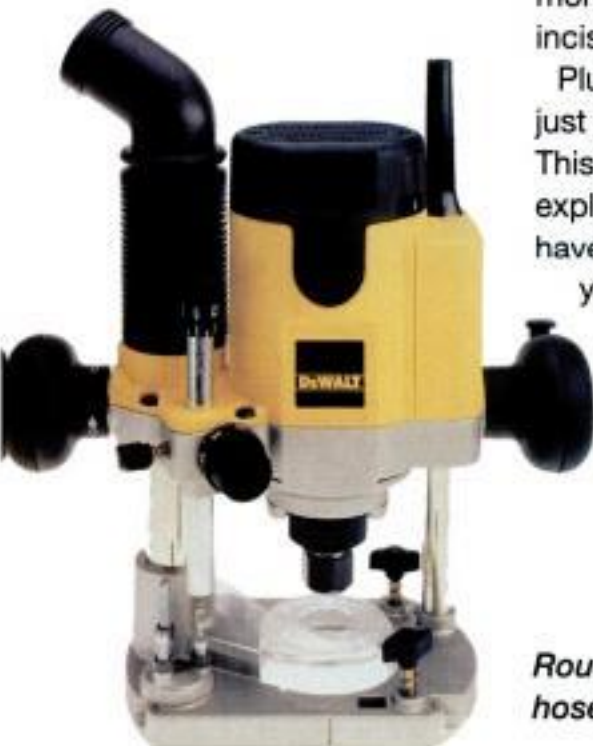
Little and big. For handheld operations, a small router like the Porter-Cable 100 (right) has the edge in maneuverability. More powerful routers like the Freud FT2000E (left) work great in a router table, for heavy-duty shaping.

PLUNGE ROUTERS

On this type of router, you can plunge the bit into the work, and then retract it after making the cut. The motor housing moves up and down

on a pair of posts connected to the router base. Since the motor can lock at any point on its plunge range, you can use a plunge router to cut mortises, stopped grooves or incised letters.

Plunge routers can also work just like fixed-base routers. This dual-function capability explains why plunge routers have become so popular. If you're only planning to buy one router, make it a plunge router.



Router with vacuum hose hookup

options worth having

Edge guide. Use this accessory to guide your router for all kinds of edging and straight-line work—even mortising with a plunge router.

Router table. Get your router to work like a shaper. You can buy an aftermarket router table, or make your own. (See "Revolutionary Router Table," AW #44.)

Variable speed control. Some routers have variable speed control, which gives an extra measure of safety and control. For single-speed routers, a variable speed control unit is available from common mail-order catalogs.

Template bushings. A set of bushings enables you to do template routing. Many router jigs also use template bushings to guide the router.

Dust collection. Models with vacuum hose hookups (see photo, left) let you collect dust at the source.

plunge routers

For fixed-base routers, see page 118.



Bosch 1614EVS



DeWalt DW615



Makita 3612 C



Hitachi M12V

Brand & Model	List Price	HP	Speeds (rpm)	Collet Sizes (in.)	Max. Plunge Depth (in.)	Trigger Location	Plunge Lock	Weight (lbs.)	Comments & Features
Jepson 7206K	\$216	1	30,000	1/4	2**	B	L	7	Combo trimmer & plunge router.
Bosch 1614EVS	316	1 1/4	12,000 - 23,000*	1/4	2**	H	U	7.9	Micro-depth adjustment knob.
DeWalt DW615	310	1 1/4	8,000 - 24,000*	1/4	1 15/16	B	L	6.2	Turn handle for plunge lock.
Makita 3621	250	1 1/4	24,000	1/4	1 3/8	B	L	5.3	3 plunge stops.
Porter-Cable 693	338	1 1/2	23,000	1/4, 3/8, 1/2	2 1/2	B	U	11.5	Auto-release collet.
Skil 1823	125	1 1/2	25,000	1/4	2	H	L	7	Flat top for easy bit changes.
Ryobi R175	100	1 3/4	25,000	1/4	2**	H	U	8.1	
Ryobi RE175	150	1 3/4	15,000 - 25,000*	1/4	2**	H	U	8.1	
Skil 1835	165	1 3/4	25,000	1/4	2**	H	L	7	Bit storage.
Bosch 1613EVS	392	2	12,000 - 22,000*	1/4, 1/2	2**	H	U	10.1	Micro-depth adjustment knob.
Craftsman 27510	190	2	22,000	1/4, 1/2	2 1/2**	H	L	11.5	2-piece collet; spindle lock.
DeWalt DW621	402	2	8,000 - 24,000*	1/4, 1/2	2 1/8	H	T	9	Built-in dust collection.
Hitachi M8V	336	2	10,000 - 25,000	1/4	1 7/8**	B	U	6.4	3-position adjustable handle.
Bosch 1615	450	3	25,000	1/4, 1/2	3	H	U	12	Template guide adaptor plate.
DeWalt DW625	530	3	8,000 - 22,000*	1/4, 1/2	2 7/16**	H	L	11.3	Rack & pinion depth adj.
Hitachi TR12	377	3	22,000	1/4, 3/8, 1/2	2 7/16	B	U	11	
Jepson 7412	321	3	23,000	1/2	3**	B	L	13	3 plunge stops.
Ryobi RE600	275	3	10,000 - 22,000*	1/4, 1/2	2 3/8**	H	L	13.6	Edge guide.
Bosch 1615EVS	569	3 1/4	12,000 - 19,000*	1/4, 3/8, 1/2	3**	H	U	12.3	Template guide adaptor plate.
Freud FT2000E	410	3 1/4	8,000 - 22,000*	1/4, 1/2	2 3/4**	H	L	12.9	Vacuum attachment for dust pickup.
Makita 3612	397	3 1/4	22,000	1/4, 1/2	2 23/64**	B	L	13.2	Electronic brake.
Makita 3612 C	559	3 1/4	9,000 - 22,000	1/4, 1/2	2 23/64	B	L	13.2	
Porter-Cable 7538	478	3 1/4	21,000	1/4, 3/8, 1/2	3	H	U	17.3	Auto-release collet.
Porter-Cable 7539	544	3 1/4	10,000 - 21,000*	1/4, 3/8, 1/2	3	H	U	17.3	Auto-release collet.
Craftsman 27511	250	3 1/2	10,000 - 22,000	1/4, 1/2	2 1/2**	H	L	13	Edge guide; 2-piece collet.
Hitachi M12V	541	3 1/2	8,000 - 20,000*	1/4, 3/8, 1/2	2 7/16**	B	U	11.7	

KEY: Trigger location: H = handle, B = body. *Electronic variable speed control. **Has depth-adjustment knob. **Plunge Lock:** L = locks when lever is pressed, U = unlocks when lever is pressed, T = twist handle to lock/unlock.

[Continued on page 118.](#)

See page 144
for listing of manufacturers.

Can't decide which router to buy?

Fixed Base

Plunge Base

Get Both.

Porter-Cable answers the oldest question in routing by introducing the 693PK, the only kit that gives you two routers in one. Each 693PK comes with Porter-Cable's 1-1/2 HP, 10 Amp router motor, long recognized as the standard of the industry. Also included is our machined-aluminum fixed router base and smooth-as-silk plunge router base. So now, with just one purchase, you get the versatility of owning the two most popular types of routers. You also get our 1/4" and 1/2" collets thrown into the deal, and a heavy-duty plastic carrying case with room for everything including your own 1/4" and 1/2" bits. So cover all your bases and visit your Porter-Cable retailer now. Because this limited time offer will disappear fast. Or call us at 1-800-487-8665 (519-836-2840 in Canada), for the dealer nearest you.

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fixed-base routers

For plunge routers, see page 116.



Bosch 1604A

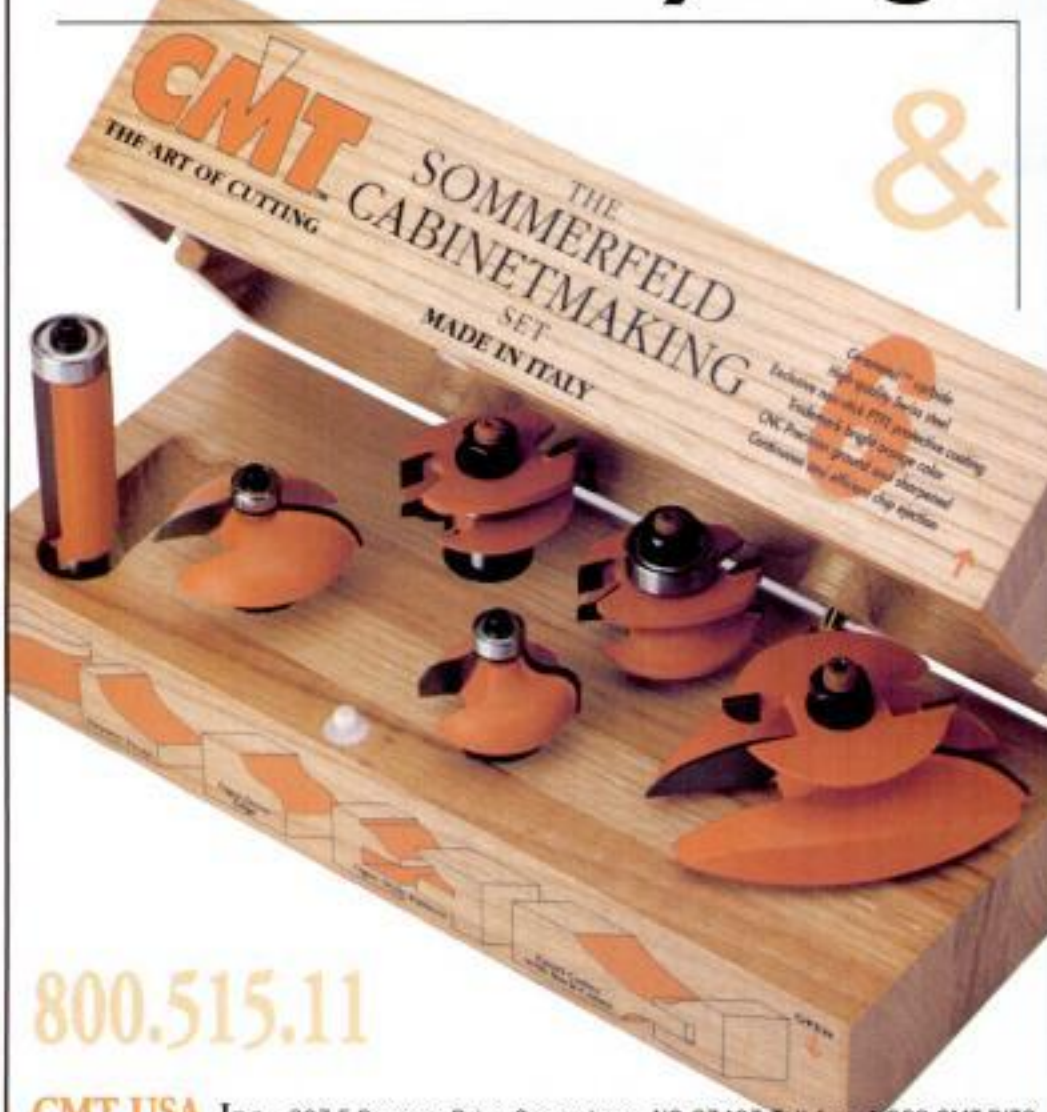


Porter-Cable 7536

Brand & Model	List Price	HP	Speeds (rpm)	Collet Sizes (in.)	Trigger Location	Depth Adjustment Range (in.)	Weight (lbs.)	Comments & Features
Jepson 7210	\$147	3/4	23,000	1/4, 3/8	B	1 1/8	5.3	
Porter-Cable 100	204	7/8	22,000	1/4	B	1 1/2	6.8	Calibrated depth-adj. ring.
Black & Decker 7604	60	1	30,000	1/4	B	1 1/2	3.7	Calibrated depth-adj. ring.
Bosch 1601A	227	1	25,000	1/4	B	1	6.3	Captive template guide system.
Makita 3606	180	1	30,000	1/4	B	3	5.5	Calibrated depth-adj. ring.
Bosch 1602A	260	1 1/2	25,000	1/4, 3/8	B	1	7	Captive template guide system.
Craftsman 17504	60	1 1/2	25,000	1/4	H	1 1/2	7.5	Depth-adjustment ring; zero reset ring.
DeWalt DW610	270	1 1/2	25,000	1/4, 1/2	B	2 3/8	7.3	Rack & pinion depth adj.
Milwaukee 5660	357	1 1/2	24,500	1/4, 3/8, 1/2	B	2 1/4	8.5	Calibrated depth-adj. ring.
Porter-Cable 690	278	1 1/2	23,000	1/4, 3/8, 1/2	B	1 1/2	8	Auto-release collet.
Porter-Cable 691	307	1 1/2	23,000	1/4, 3/8, 1/2	H	1 1/2	9.3	D handle; auto-release collet.
Ryobi R160	65	1 1/2	25,000	1/4	H	1 1/2	7.5	Dual depth-adj. ring.
Bosch 1604A	274	1 3/4	25,000	1/4, 1/2	B	1	7.8	Captive template guide system.
Bosch 1606A	318	1 3/4	25,000	1/4, 1/2	B	1	7.8	Captive template guide system; D handle.
Craftsman 17505	80	1 3/4	15,000 - 25,000	1/4	H	1 1/2	8.3	Depth-adj. ring; zero reset ring; worklight.
Ryobi R165K	85	1 3/4	25,000	1/4	H	1 1/2	8	Dual depth-adj. ring; worklight.
Ryobi RE170	150	1 3/4	15,000 - 25,000*	1/4, 1/2	H	1 1/2	8.8	Dual depth scale; worklight.
Craftsman 17506	100	2	15,000 - 25,000*	1/4	H	1 1/2	9.1	Zero reset; worklight; dust collection.
Jepson 7112	212	2	25,500	1/4, 3/8, 1/2	H	1 1/8	10.3	D handle.
Milwaukee 5680	367	2	26,000	1/4, 3/8, 1/2	B	2 1/4	8.8	Calibrated depth-adj. ring.
Milwaukee 5681	367	2	26,000	1/4, 3/8, 1/2	B	2 1/4	8.8	
Milwaukee 5682	388	2	26,000	1/4, 3/8, 1/2	B	2 1/4	8.8	
Ryobi R180	130	2	25,000	1/4, 1/2	H	1 1/2	8.8	Dual depth scale; worklight.
Ryobi RE185	170	2 1/4	15,000 - 20,000*	1/4, 1/2	H	2 1/4	9	Soft start.
Porter-Cable 7536	389	2 1/2	21,000	1/4, 3/8, 1/2	B	2 1/2	14.5	Auto-release collet.
Porter-Cable 7537	409	2 1/2	21,000	1/4, 3/8, 1/2	H	2 1/2	14.5	D handle; auto-release collet.
Porter-Cable 7518	544	3 1/4	10,000 - 21,000	1/4, 3/8, 1/2	B	2 1/2	14.5	5 speeds, soft-start; auto-release collet.
Porter-Cable 7519	479	3 1/4	21,000	1/4, 3/8, 1/2	B	2 1/2	15	Soft start.

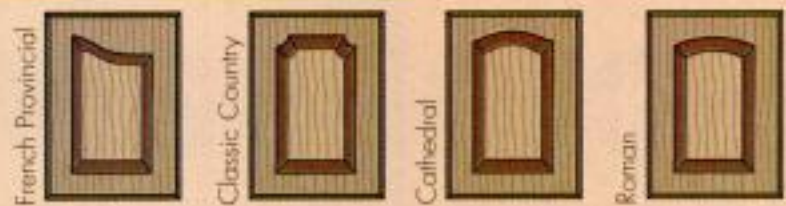
KEY: Trigger location: H = handle, B = body. *Electronic variable speed control.

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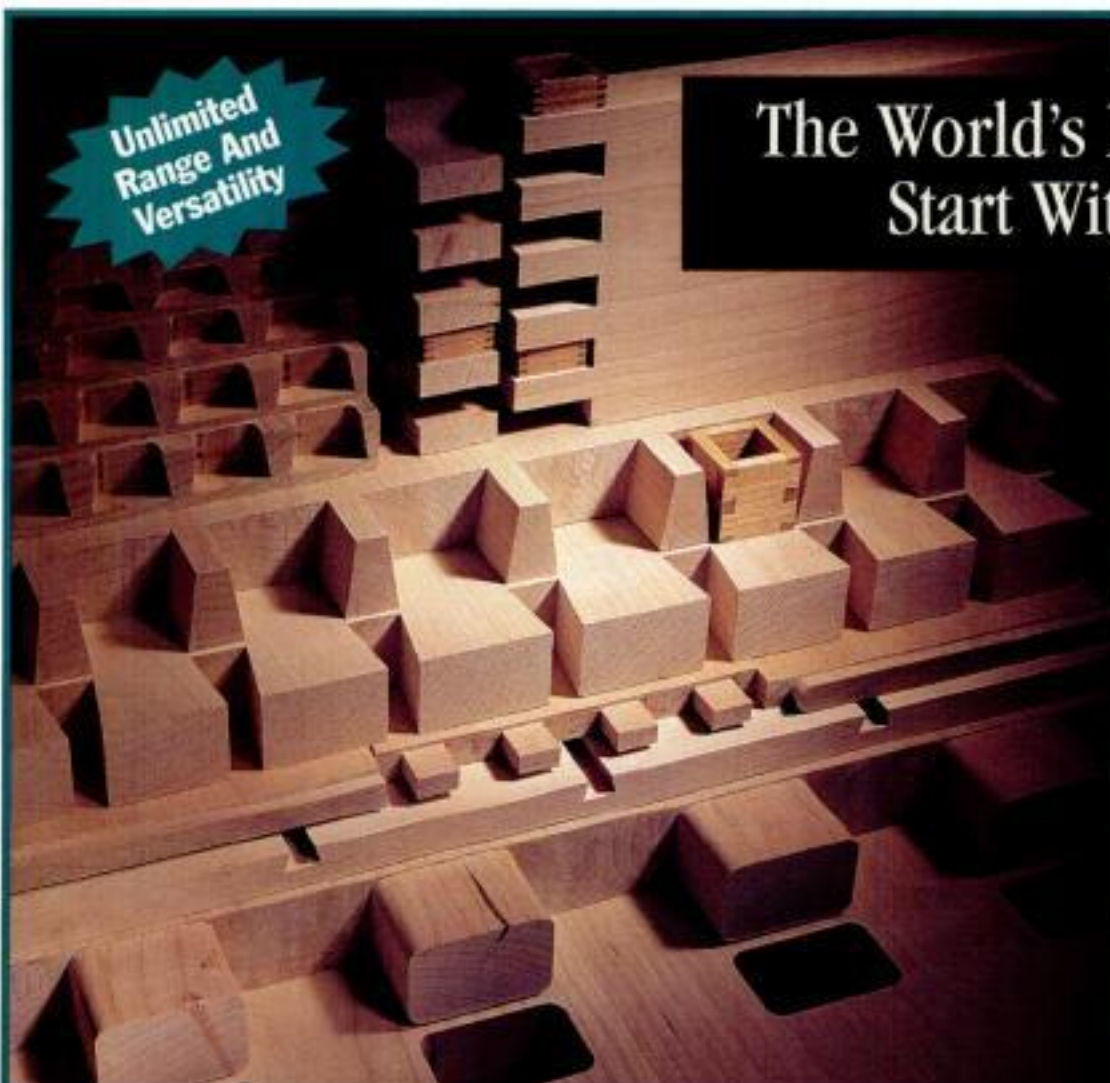
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WOODSMITH MAGAZINE

CIRCLE NO. 52 ON PRODUCT INFORMATION FORM

scrollsaws



Curvy cuts. The scrollsaw fills the bill when you want to cut fretwork, marquetry, puzzles or anything intricate.

nothing beats a scrollsaw for cutting intricate curves in wood and other materials. Its delicate blade and reciprocating cutting action make it the machine of choice for fine fretwork and marquetry, where hairpin turns and inside cuts are the norm.

Power isn't the most important issue when you're choosing a scrollsaw—the delicate blade will probably break before the motor bogs down. More important are cutting speed and accuracy, which depend largely on the design of the reciprocating mechanism. Quiet, vibration-free operation and easy blade changing are critical factors if you plan to spend long hours at the saw, as many scrollers do.

3 types of scrollsaws

PARALLEL-ARM SAWS

On these models, the arms are connected at their back ends by a threaded rod. But they pivot separately on the saw frame, moving the blade straight up and down. This vertical cutting action is good for extra-fine work and anywhere you need a perfectly square cut.



PARALLEL-LINK SAWS

This variation on the parallel-arm design is available on Excalibur and DeWalt scroll-saws. These models also have vertical cutting action.



features to consider

Benchtop vs. Floor Model

A benchtop scrollsaw is worth considering if you'll need to stow it frequently or if you're on a tight budget. Keep in mind, however, that it should be bolted down in use, because scrollsaws are inherently prone to vibration.

If you'll be doing a lot of scrollsaw work, consider a floor model. Many of these are built for heavy-duty use, but some are simply benchtop models attached to welded-steel stands for increased stability.

Cutting Speed

With scrollsaws, speed is measured in strokes per minute (spm), and there are several speed choices. Scrollsaws are available in single-, multiple-, and variable-speed models. Lower speeds—200 spm, for example—are good for cutting plastics and metals, and for making intricate cuts in very thin stock. Higher speeds (up to 2,000 spm) are good for quick cutting in wood.

Speed changes can be made by rocker switch (as with many two-speed models), by manually repositioning the drive belt on a step pulley, or by electronic variable speed (EVS) control. Despite the added expense, many serious scrollsaw users favor EVS control. This electronic circuitry helps the motor maintain constant speed under varying loads, and provides infinite, convenient adjustment over the tool's speed range.

Table Tilt

Nearly all tables tilt at least 45° in one direction. On a table that tilts both ways, you can cut dovetails.

Blade Changing

Scrollsaw blades tend to wear quickly and break easily, so easy blade changing is an important feature.

On all scrollsaws, the blade is held between blade clamps that pivot on the end of the saw arm. Many less expensive scrollsaws are designed to hold pin-end blades. Though easier to mount and less prone to slippage than plain-end blades, the variety of pin-end blades is limited. On a saw that takes plain-end blades, you'll appreciate quick-release blade holders, which make blade changing much easier.



Faster blade changing. With quick-release blade tensioners and holders you can reduce blade-changing time—handy for making inside cuts.

Throat Depth

Scrollsaw size is designated by throat depth—the distance from the blade to the back of the saw's arm or arms. The smallest saws have throat depths of 13 in. or 14 in.; the largest saw is 30 in. deep. Choose a scrollsaw that will accommodate the largest work you plan to do.

Cutting Depth

Most saws can handle stock up to 2 in. thick. Saws with longer stroke lengths cut thick stock more efficiently because they clear more sawdust out of the cut.

how they work

C-ARM SAWS

On these saws, blades are held between two ends of a single C-shaped arm that moves up and down. Since the C-arm saw blade moves in a slight arc, the cutting action is more aggressive. But it also tends to be slightly rougher than the cutting action of a parallel-arm saw.



Parallel-arm action. On the parallel-arm saw, the blade moves straight up and down, resulting in a square cut.



C-arm action. On C-arm saws, the blade moves in a small arc, slightly beveling the edge of the workpiece.

options worth having

Electronic variable speed (EVS) control. You can transform a single-speed saw into one with EVS with this aftermarket accessory, available from many mail-order tool suppliers.

Foot switch. This remote switch frees up both hands to maneuver the workpiece.

Quick-change blade holders. These quick-release holders make blade changing easy; they're standard on some scrollsaws. (See chart, page 122.) Aftermarket blade holders, or "quick clamps," are available from Seyco Sales, (800) 462-3353. They come in a variety of styles, to fit different brands of scrollsaws.

Plain-end blade adaptors. These adaptors let you use plain-end blades on a saw designed to mount pin-end blades.

Magnifier lamps. These use a magnifying lens and a fluorescent circline bulb to let you see tiny details better.

for more info

Check out the detailed test results in "Shop Tested: Floor-Model Scrollsaws," AW #54.

scrollsaws

New models in red.



Craftsman 23609



Pro-Tech 3303



Tradesman 8368



Hegner Multimax 18v

See page 144
for listing of manufacturers.

Brand & Model	List Price	Throat Cpy. (in.)	Max. Stock Thick. (in.)	Arm Type	Quick-Release Blade Tension	Quick-Change Blade Holders	Speed Control	Speed: Strokes per Minute*	Table Tilt Range Left-Right (°)	Weight (lbs.)	Comments & Features
Delta 40-150	\$147	15	2	PA	N	N	RS	1,725	45 - 0	37	Dust blower.
Grizzly G1572	110	15	2	CA	N	Y	—	1,725	0 - 45	40	Dust blower.
Penn State Super VS-15	170	15	2	PA	N	Y	EVS	400 - 1,800	0 - 45	35	Dust blower.
Tradesman 8350SL	99	15	2	PA	Y	Y	—	1,725	45 - 0	42	Dust blower; cast-iron table.
AMT 4602	169	16	2	PA	N	N	RS	2 (890, 1,780)	45 - 0	45	Cast-iron construction.
Craftsman 23558	120	16	2	PA	N	N	—	1,700	0 - 45	40	Cast-iron base & housing.
Craftsman 23609	180	16	2	PA	N	Y	EVS	500 - 1,700	0 - 45	35	
Delta 40-530	153	16	2	PA	Y	Y	RS	1,750	0 - 45	40	Dust blower.
Delta 40-540	243	16	2	PA	Y	Y	EVS	600 - 1,800	0 - 45	46.5	Quickset II® blade holder.
Delta 40-560 Type 2	230	16	2	PA	Y	Y	RS	2(850, 1,725)	45 - 0	47	Quickset II® blade holder.
Dremel 1672	189	16	2	PA	Y	Y	RS	2 (890, 1,790)	45 - 0	45	
Grizzly G1257	170	16	2	CA	N	Y	EVS	400 - 1,800	0 - 45	40	Dust blower.
Pro-Tech 3303	169	16	2	PA	N	Y	EVS	400 - 1,600	50 - 15	29	
Ryobi SC155	100	16	2	PA	Y	N	—	1,750	45 - 0	30	
Ryobi SC160	150	16	2	PA	Y	N	—	1,750	45 - 0	44	Dust blower.
Ryobi SC165VS	189	16	2	PA	Y	Y	EVS	500 - 1,700	10 - 45	27	
Skil 3333	277	16	2	PA	Y	Y	RS	1,725	0 - 45	43	
Tradesman 8354SL	119	16	2	PA	Y	Y	—	1,725	45 - 0	46	Dust blower; cast-iron table.
Tradesman 8365SL	159	16	2	PA	Y	Y	EVS	400 - 1,800	45 - 0	41	Dust blower; cast-iron table.
Tradesman 8368	179	16	2	PA	Y	Y	EVS	400 - 1,800	45-45	45	Cast-iron table; light; dust blower.
DeWalt DW788	816	20	2	PL	Y	Y	EVS	300 - 1,750	0 - 45	54	Optional stand.
Grizzly G1060	160	22	2	CA	N	Y	—	1,720	0 - 30	61	Dust blower.
Lobo JS-0022	159	22	2	CA	Y	N	EVS	1,720	15 - 45	65	Dust blower.
Craftsman 23616	299	23	2 5/8	PA	N	N	RS	2 (825, 1,725)	45 - 0	80	Cast-iron construction.
Hegner Multimax 14e	649	14	2	PA	N	Y	—	1,700	45 - 0	30	6-yr. warranty.
Hegner Multimax 14v	999	14	2	PA	N	Y	EVS	400 - 1,700	45 - 0	35	2 stroke lengths.
PS Wood 14	599	14	2 1/4	PA	Y	Y	SP	3 (1,060, 1,575)	45 - 35	65	5-yr. warranty.
RBI Hawk 216VS	649	16	2 1/8	PA	N	Y	EVS	300 - 1,450	45 - 45	69	Set tension by visual reference.
Delta Q3 40-650	600	18	2	CA	Y	Y	EVS	300 - 2,000	9 - 45	90	Controls up front.
Hegner Multimax 18s	999	18	2 5/8	PA	Y	Y	—	1,700	45 - 12	51	Quick-Lock® tensioner.
Hegner Multimax 18v	1,199	18	2 5/8	PA	Y	Y	EVS	400 - 1,700	45 - 12	51	Quick-Lock® tensioner.
Reliant AL18	200	18	2	CA	N	N	SP	2 (850, 1,720)	30 - 0	112	Dust blower.
Excalibur EX19NM	819	19	2 1/2	PL	Y	Y	EVS	3 (400, 1,400)	45 - 45	55	Motor not included.
Excalibur EX19SD	939	19	2 1/2	PL	Y	Y	SP	3 (400, 1,400)	45 - 45	65	Accessories included.
Excalibur EX19VS	1,169	19	2	PL	Y	Y	EVS	60 - 1,500	45 - 45	75	Accessories included.
Excalibur EX2	939	19	2 1/2	PL	Y	Y	SP	3 (400, 1,400)	45 - 45	65	Canadian version of EX19SD.
Craftsman 23640	400	20	2	CA	N	N	EVS	300 - 2,000	0 - 45	143	Cast-iron table.
Hegner Polymax	2,399	20	2	PA	N	Y	SP	700 - 1,600	45 - 0	100	Built for industrial use.
RBI Hawk 220 Ultra	999	20	2 5/8	PA	Y	Y	EVS	300 - 1,725	45 - 45	93	0° positive stop table tilt.
RBI Hawk 220 Ultra Wheelchair Accessible	1,074	20	2 5/8	PA	Y	Y	EVS	300 - 1,725	45 - 45	93	Maximum safety features.
Shopsmith 555685	850	20	2	PA	Y	Y	EVS	500 - 1,450	45 - 45	85	16 x 32 table.

BENCHTOP

FLOOR MODELS

KEY: Arm Type: CA = C-arm, FA = fixed-arm, PA = parallel-arm, PL = parallel-link. Y = yes. N = no. OPT = optional. — = not applicable.
Speed Control: EVS = electronic variable speed, RS = rocker switch, SP = step pulleys.
*Saws with 2 or more fixed speeds listed thus: # of speeds (low speed, high speed).

Brand & Model	List Price	Throat Cpy. (in.)	Max. Stock Thick. (in.)	Arm Type	Quick-Release Blade Tension	Quick-Change Blade Holders	Speed Control	Speed: Strokes per Minute*	Table Tilt Range Left-Right (°)	Weight (lbs.)	Comments & Features
PS Wood 21	\$799	21	2 1/2	PA	Y	Y	SP	5 (170, 1,370)	45 - 35	85	5-yr. warranty; large work surface.
PS Wood 21 (EVS)	899	21	2 1/4	PA	Y	Y	EVS	170 - 1,370	45 - 35	90	5-yr. warranty.
Woodtek 826398	399	21	2	PA	OPT	N	SP	5 (170, 1,370)	45 - 15	85	Dust blower.
Hegner Multimax 22v	1,399	22	2 5/8	PA	Y	Y	EVS	400 - 1,700	45 - 12	66	6-yr. warranty.
Powermatic 95	2,047	24	1 3/4	FA	N	N	EVS	807 - 1,653	15 - 45	220	115/230V.
RBI Hawk 226 Ultra	1,149	26	2 5/8	PA	Y	Y	EVS	300 - 1,725	45 - 45	97	0° positive stop table tilt.
RBI Hawk 226 Ultra Wheelchair Accessible	1,224	26	2 5/8	PA	Y	Y	EVS	300 - 1,725	45 - 45	97	Maximum safety features.
Reliant DD26	250	26	2	CA	N	N	—	1,720	30 - 0	130	Dust blower.
Excalibur EX30VS	1,499	30	2 1/2	PL	Y	Y	EVS	0 - 1,500	45 - 45	70	Accessories included.

KEY: Arm Type: CA = C-arm, FA = fixed-arm, PA = parallel-arm, PL = parallel-link. Y = yes. N = no. OPT = optional. — = not applicable. ▲
Speed Control: EVS = electronic variable speed, RS = rocker switch, SP = step pulleys.
 *Saws with 2 or more fixed speeds listed thus: # of speeds (low speed, high speed).

scrollsaws

New models in red.



RBI Hawk 220 Ultra

See page 144
for listing of manufacturers.

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CIRCLE NO. 86 ON PRODUCT INFORMATION FORM

tablesaws



Shop workhorse. A tablesaw is the primary woodworking tool in many shops. No other machine can perform so many tasks, from sizing material to cutting joints.

No other woodworking machine can do more than the tablesaw. It can rip, crosscut, rabbet, dado, miter, groove, mold and bevel, as well as cut tenons, lap joints, box joints and even dovetails. Because this tool is so versatile, it's important to pick one that will suit both your present and future needs. Don't skimp on quality if you expect to do serious woodworking.

Two basic factors define a saw: size and type. A saw's size is designated by the diameter of the largest blade it will handle. Tablesaw types are explained at right.

3 types of tablesaws

CABINET SAWS

Designed for the professional cabinet shop, a cabinet saw has an enclosed base, a powerful motor (2, 3 or 5 HP), and a multiple V-belt drive to minimize slippage between arbor and motor.

The 10-in. saw is the most popular, but 12-in. and 14-in. models are also available. Left-tilting blades are available on some models.

CONTRACTOR'S

Offering a compromise between price and performance, these saws meet most small shops' demands for accuracy and versatility.

The typical contractor's saw has a cast-iron or



features to consider

A Good Table

Cast iron remains the first choice for table material; die-cast aluminum is second. Use a straightedge to check for table flatness. Table extensions are a plus because they increase your working surface and help support large workpieces.

Rip Fence and Rails

Look for a rip fence that slides smoothly, locks parallel to the blade, and adjusts easily if it goes out of square. Guide rails should be rigid and straight. A fence that locks at both ends is more rigid than one that locks at only one end.

Miter Gauge

This should slide freely in the table slots without side-to-side play. A finely calibrated scale with stops at 90° and 45° is an asset. The gauge should also have holes to screw on a wooden auxiliary fence.

Motor

Impressive power ratings on some home-shop tablesaws often misleadingly refer to "peak" HP. A more useful measurement is a motor's "rated" or "continuous" HP. Pick the most powerful motor you can afford—preferably one with built-in overload protection.

Safety Features

A large, easy-to-reach "off" switch is important. The blade guard should swing out of the way during blade changing. Because the guard must be removed for some woodworking operations, look for one that's easy to remove and reinstall.

SAWS

cast-aluminum top, bolt-on table extensions and a belt-driven induction motor that hangs out the back. (Some of the lower-priced models have direct-drive motors.) Today, more models are configured with premium fences like those found on cabinet saws.

As a minus, the open base and back make dust collection difficult on a contractor's saw. And this type of saw doesn't have the power you'll find in a cabinet saw.

BENCHTOP SAWS

If you do small-scale work, or if you need a portable jobsite saw, a benchtop tablesaw may be just the ticket—it's inexpensive and portable.

But these saws have limits: Small tops limit rip capacity, and a stable bench or base is a must. Motors are noisy and underpowered. And don't expect great precision from the rip fence or miter gauge.

A notable exception is the DeWalt DW744, which has a rack-and-pinion fence.



Controls and Mechanisms

Handwheels, knobs and locking devices should be sturdy and operate easily. The blade should adjust without any play, and there should be a lock to hold the blade setting. Degree scales should be easy to read, and there should be adjustable stops at 45° and 90°. Make sure the arbor is long enough to accept a dado head.



Rip fence and miter gauge.

The fence should lock square to the blade and slide easily on sturdy rails. The miter gauge should be sturdy and slide easily without play.



Sturdy, smooth-operating mechanisms. Look for well-made controls that move easily and lock adjustments firmly.

options worth having

Dado-blade set. Multiple-blade, carbide-tipped dado sets are the best. (See AW #42 for a review of dado blades.)

Aftermarket rip fence. This is probably the best accessory you can buy for your saw. A good fence will boost your accuracy and efficiency. (See AW #61 for a review of fences.)

Outfeed tables. If you don't have enough room in your shop for permanent outfeed tables, consider buying or making portable outfeed rollers.

Sliding tables. Available for cabinet and contractor's saws, these make crosscutting easier and more accurate.

Tenoning jig. You can use this jig to cut tenons, lap joints, bridle joints and spline joints.

Dust collection. Hooking up to a dust collector will save cleanup time.

Aftermarket blade guards. These are better than most standard guards.

for more info

Check out the detailed test results in our "Cabinet Saw Showdown," AW #49.

tablesaws

New models in red.



Pro-Tech 4106



Ryobi BT3000SX



Skil 3400



Tradesman 8030A



Craftsman 29951

Brand & Model	List Price	Blade Dia. (in.)	Max. Cutting D (in.)	Max. Rip Cpy. (in.)	Table W x D (in.)	Table Material	Drive Type	HP	Volts	Amps	Dust Coll. Port	Weight (lbs.)	Comments & Features
Delta Sidekick 36-275	\$358	8 1/4	2 1/4	12	26 x 20	AL	D	NA	115	13	N	49	T-slot miter gauge groove.
Jepson 8408	450	8 1/4	2 1/2	12	26 x 18 1/8	AL	D	2 1/2	115	14	N	38.5	Removable safety switch.
Makita 2708W	637	8 1/4	2 1/2	11 7/8	26 x 14 3/4	AL	D	2	115	12	Y	38	Removable switch key.
Black & Decker 9442	314	10	3	11 1/2	28 x 16	AL	D	2 1/2	115	13	Y	37	3/16-in. dado capacity.
Black & Decker TS750	325	10	3	15	30 x 20	AL	D	NA	115	13	Y	50	Extra-large table surface.
Craftsman 22174	180	10	3	10 1/2	26 x 17	AL	D	2 1/2	115	13	Y	40	Takes dado heads; self-aligning fence.
Delta 36-540 Type 2	229	10	3	9 7/8	26 x 16	AL	D	NA	115	13	N	40	Removable safety switch.
DeWalt DW744	956	10	3 1/8	24 1/2	26 1/2 x 19 3/8	AL	D	2 3/5	115	13	Y	64	Telescoping fence.
Grizzly G5045	200	10	3	18	17 x 26	AL	D	1	115	13	N	60	
Hitachi C10RA	632	10	3	15 3/4	34 x 19 5/8	AL	D	2 1/3	115	15	Y	56	T-slot miter gauge groove; ext. wings.
Lobo TS-750	279	10	12	16	30 x 20	AL	B	2 1/2	115	13	Y	50	T-slot miter gauge groove.
Pro-Tech 4106	179	10	3	9 7/8	26 x 16	AL	D	2 1/2	115	13	Y	38	Removable safety switch.
Reliant DD65	150	10	3	12	26 x 17	AL	D	2	115	13	N	47	Removable safety switch.
Ryobi BT3000SX	500	10	3 9/16	30	41 x 27	AL	B	2 1/4	115	15	Y	107	Sliding miter table; stand; carbide blade.
Skil 3400	364	10	3	12	26 5/8 x 17 5/8	AL	D	2 1/2	115	13	Y	36	
Tradesman 8030A	139	10	3 1/8	9 7/8	26 x 17	AL	D	NA	115	13	Y	38	Cam-lock fence.
Tradesman 8035A	189	10	3 1/8	9 7/8	26 x 17	AL	D	NA	115	13	Y	59	8030A plus stand, carbide blade.
AMT 4572	399	10	3 1/8	24	40 3/8 x 27	CI	B	1 1/2	115/230	18/9	N	225	Cast-iron table extensions.
Belsaw MC-10CS	659	10	3 1/8	25	39 1/2 x 27	CI	B	1 1/2	115/230	20/10	N	242	Cast-iron table extensions.
Bridgewood TCS-10C	709	10	3 1/4	40	40 x 27	CI	B	1 1/2	115/230	16/8	N	287	Vega fence.
Craftsman 29921	350	10	2 1/2	24	40 x 27	AL, S	D	1	115	12	OPT	123	10-in. x 27-in. steel ext.; light weight.
Craftsman 29931	500	10	3 3/8	24	44 x 27	CI, S	B	1 1/2	115	13	OPT	217	XR-2414 fence.
Craftsman 29941	600	10	3 3/8	24	44 x 27	CI	B	1 1/2	115/230	13/6.5	OPT	236	XR-2424 fence.
Craftsman 29951	800	10	3 3/8	30	44 x 27	CI	B	1 1/2	115/230	13/6.5	Y	244	XR-3024 fence.
Delta 34-444	852	10	3 1/8	25	40 x 27	CI	B	1 1/2	115/230	12.8/6.4	N	251	Steel extension wings.
Delta 34-445	1,072	10	3 1/8	25	62 x 27	CI	B	1 1/2	115/230	12.8/6.4	N	262	30-in. Unifence.
Delta 34-670	492	10	3 1/8	25	38 3/8 x 22 1/4	CI	B	NA	115	15	N	153	T-slot miter gauge groove.
Delta 36-440	980	10	3 1/8	29	54 x 27	CI	B	1 1/2	115/230	12.8/6.4	N	245	29-in. precision saw guide.
Delta 36-450	1,030	10	3 1/8	25	78 x 27	CI	B	1 1/2	115/230	12.8/6.4	N	265	50-in. precision fence.
Delta 36-460	1,038	10	3 1/8	28	52 x 27	CI	B	1 1/2	115/230	12.8/6.4	N	267	28-in. Biesemeyer fence.
Delta 36-470	1,048	10	3 1/8	40	64 x 27	CI	B	1 1/2	115/230	12.8/6.4	N	275	40-in. Biesemeyer fence.
Delta 36-480	1,069	10	3 1/8	25	76 x 27	CI	B	1 1/2	115/230	12.8/6.4	N	286	52-in. Biesemeyer fence.
Delta 36-490	1,072	10	3 1/8	30	54 x 27	CI	B	1 1/2	115/230	12.8/6.4	N	286	30-in. Biesemeyer pro fence.
Delta 36-600	492	10	3 1/8	25	38 3/8 x 22 1/4	CI	B	NA	115	15	N	145	T-Square® rip fence.
Delta 36-630	\$721	10	3 1/8	24	40 x 27	CI	B	1 1/2	115/230	12.8/6.4	Y	210	T-slot miter gauge groove.

BENCHTOP

CONTRACTOR TYPE

KEY: Table Material: AL = aluminum, CI = cast iron, S = steel.

Drive Type: B = belt-driven, D = direct drive. NA = information not available. Y = yes. N = no. OPT = optional.

Chart continued on page 128.

See page 144 for listing of manufacturers.

Choice is a powerful tool.



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shown with optional
table and legs
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XACTA SAW™ LEFT
complete with
table and legs
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surface; and a convenient up-front switch...*all standard*. Plus JET includes the highly
acclaimed 50" commercial XACTA FENCE™. The whole package is backed by
a 2-year warranty.

What's more, the XACTA SAW™, comparably equipped,
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tablesaws

New models in red.



Delta 36-440



Jet JWTS-10CW-PFX



Tradesman 8000T



Bridgewood BW-10CS



Delta 36-821L

CONTRACTOR TYPE

CABINET TYPE

Brand & Model	List Price	Blade Dia. (in.)	Max. Cutting D (in.)	Max. Rip Cpy. (in.)	Table W x D (in.)	Table Material	Drive Type	HP	Volts	Amps	Dust Coll. Port	Weight (lbs.)	Comments & Features
Delta 36-640	793	10	3 1/8	29	54 x 27	CI	B	1 1/2	115/230	12.8/6.4	Y	202	29-in. precision saw guide.
Grizzly G1022	375	10	3	25	40 1/2 x 27 1/8	CI	B	1 1/2	115/230	16/8	OPT	270	Cast-iron wing; 70-in. ext. tubes opt.
Grizzly G1022Z	449	10	3	24	40 1/2 x 27 1/8	CI	B	1 1/2	115/230	16/8	OPT	270	New design fence.
Grizzly G1022ZF	600	10	3	25	40 1/2 x 27 1/8	CI	B	1 1/2	115/230	NA	Y	285	Shop Fox fence and US motor.
Grizzly G1022ZFX	700	10	3	25	40 1/2 x 27 1/8	CI	B	2	115/230	NA	Y	290	Shop Fox fence and US motor.
Jet JWTS-10CW-PF	999	10	3 1/8	30	30 x 27	CI	B	1 1/2	115/230	18/9	Y	310	Includes table extensions & legs.
Jet JWTS-10CW-PFX	1,049	10	3 1/8	52	30 x 27	CI	B	1 1/2	115/230	18/9	Y	325	Includes table extensions & legs.
Jet JWTS-10JF	739	10	3 1/8	30	40 x 27	CI	B	1 1/2	115/230	18/9	Y	260	T-slot miter gauge groove.
Jet JWTS-10PFX	959	10	3 1/8	52	40 x 27	CI	B	1 1/2	115/230	18/9	Y	319	Xacta fence.
North State TSL-10L	485	10	3 1/4	26	27 x 40	CI	B	2	115/230	NA	N	NA	
Lobo TS-0010	489	10	3 1/8	30	40 1/4 x 27	CI	B	1 1/2	115/230	20/10	OPT	255	Cast-iron table extensions.
Powermatic 64	1,083	10	3 1/8	28	40 x 27	CI	B	1 1/2	115/230	18/9	Y	320	Accu-Fence.
Star S3201	365	10	3 1/8	25	40 x 27	CI	B	1 1/2	115/230	16/8	Y	285	Micro-adjuster; cast-iron wings.
Star S3205	499	10	3 1/8	36	40 x 27	CI	B	2	115/230	24/12	Y	350	Micro-adjuster; opt. sliding table.
Sunhill MS-10L	475	10	3 1/8	30	40 x 27	CI	B	1 1/2	115/230	20/10	Y	280	Cast-iron table extensions.
Tradesman 8000T	449	10	3 1/4	24	40 1/2 x 27	CI	B	1 1/2	115/230	18/9	N	262	Caster set; cam-lock fence.
Transpower MS250	345	10	3 1/4	30	40 x 27	CI	B	2	115/230	24/12	N	255	
Belsaw MC-12CS	902	12	4 1/8	25	39 1/2 x 27	CI	B	2	115/230	24/12	N	250	New precision fence.
Belsaw MC-12CS-T	902	12	4 1/8	25	39 1/2 x 27	CI	B	2	115/230	20/10	N	260	New precision fence.
Lobo TS-0012	519	12	4 1/8	30	40 1/4 x 27	CI	B	2	115/230	24/12	OPT	260	Cast-iron table extensions.
Bridgewood BW-10CS	1,034	10	3 1/8	*	40 x 27	CI	B	2	230	12	Y	373	Several premium fences available.
Delta 34-782	2,397	10	3 1/8	52	36 x 27	CI	B	3	230	NA	Y	469	52-in. Unifence.
Delta 34-782L	2,397	10	3 1/8	52	36 x 27	CI	B	3	230	NA	Y	469	Left-tilting blade.
Delta 34-783	2,397	10	3 1/8	52	36 x 27	CI	B	5	230/460	12.6/6.3	Y	454	52-in. Unifence.
Delta 36-755	1,499	10	3 1/8	25	36 x 27	CI	B	2	230	12	Y	288	T-slot miter gauge groove.
Delta 36-820	1,599	10	3 1/8	52	36 x 27	CI	B	3	230	17	Y	477	52-in. Unifence.
Delta 36-820L	1,599	10	3 1/8	52	36 x 27	CI	B	3	230	NA	Y	NA	Left-tilting blade.
Delta 36-821	1,599	10	3 1/8	50	36 x 27	CI	B	3	230	12.4	Y	476	50-in. Biesemeyer pro fence.
Delta 36-821L	1,599	10	3 1/8	50	36 x 27	CI	B	3	230	NA	Y	NA	Left-tilting blade.
Delta 36-882	2,397	10	3 1/8	50	36 x 27	CI	B	3	230	NA	Y	544	50-in. Biesemeyer fence.
Delta 36-882L	2,397	10	3 1/8	50	36 x 27	CI	B	3	230	NA	Y	544	Left-tilting blade.
General 350-1-M1	2,244	10	3 1/8	25	36 x 28	CI	B	3	230	12	OPT	415	Biesemeyer fence optional.
General S350-T50	1,995	10	3 1/8	50	28 x 72	CI, AL	B	3	230	12	Y	460	
Grizzly G1023	725	10	3 1/8	26	36 5/8 x 27	CI	B	3	230	18	OPT	425	2 inserts; T-slot miter groove.
Grizzly G1023Z	1,095	10	3 1/8	25	36 5/8 x 27	CI	B	3	230	18	Y	425	Motor cover; Shop Fox fence.
Grizzly G1023ZX	1,150	10	3 1/8	25	36 5/8 x 27	CI	B	5	230	25	Y	425	Motor cover; Shop Fox fence.
Inca 290	2,295	10	3	34	27 x 31	AL	B	2 1/2	230	15	Y	145	Sliding table opt.
Jet JTAS-10PF-3	1,869	10	3 1/8	30	40 x 27	CI	B	5	230/460	15/7.5	Y	469	Motor cover; Xacta fence.

KEY: Table Material: AL = aluminum, CI = cast iron, S = steel.
 Drive Type: B = belt-driven, D = direct drive. NA = information not available. Y = yes. N = no.
 OPT = optional. *Depends on fence option.

Chart continued on page 130.

See page 144 for listing of manufacturers.

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FORREST WOODWORKER II: 6"-14" dia. avail.

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	Sale Price	10% Off First Blade	20% Off Second Blade
10" x 30 T (1/8" or 3/32" K)	\$99	\$89	\$79
10" x 40 T (1/8" or 3/32" K)	\$119	\$107	\$95
12" x 40 T	\$129	\$116	\$103
8" or 8 1/4" x 40 T	\$99	\$89	\$79
7 1/4" x 30 T	\$69	\$62	\$55

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		Sale Price	10% Off First Dado	15% Off Second Dado
FREE \$21 value 10" BLADE RUNNER CARRYING CASE! Protects and holds up to 10 blades. Shipped with 6", 8" or 10" Dado Sets.	6" set	\$269	\$242	\$229
	8" set	\$289	\$260	\$245
	10" set	\$349	\$314	\$297



WOODWORKER I: 7 1/4"-14" dia. avail.

Designed for radial arm or tablesaws—fine crosscut.

	Sale Price	10% Off First Blade	20% Off Second Blade
8", 8 1/4", 7 1/4" x 60 Tooth	\$109	\$98	\$87
10" x 60 Tooth	\$129	\$116	\$103
12" x 60 Tooth	\$139	\$125	\$111

DURALINE HI A/T: 7 1/4"-16" dia. avail.

Cuts melamine and plywoods perfectly. 220 mm & 300 mm available.

	Sale Price	10% Off First Blade	20% Off Second Blade
8", 7 1/4" & others available			
10" x 80 T (1/8" or 3/32" K)	\$159	\$143	\$127
12" x 80 T (1" hole, 1/8" K)	\$181	\$163	\$145

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8 1/2" x 60 T	\$109	\$98	\$87
10" x 80 T	\$129	\$116	\$103
12" x 80 T	\$139	\$125	\$111

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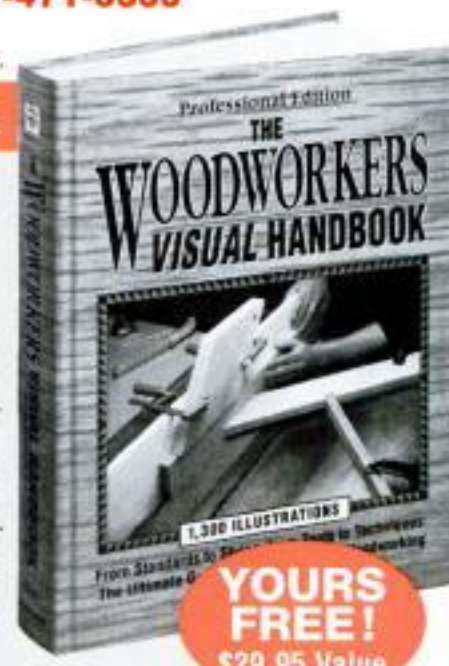
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tablesaws

New models in red.



Grizzly G1023Z



Jet JTAS-10PF-3



Powermatic 66



Sunhill MS-10TK

Brand & Model	List Price	Blade Dia. (in.)	Max. Cutting D (in.)	Max. Rip Cpy. (in.)	Table W x D (in.)	Table Material	Drive Type	HP	Volts	Amps	Dust Coll. Port	Weight (lbs.)	Comments & Features
Jet JTAS-10PFX-1	1,869	10	3 1/8	50	40 x 27	CI	B	3	230	17	Y	489	Motor cover; Xacta fence.
Jet JTAS-10XL50-1	2,099	10	3 1/8	50	40 x 27	CI	B	3	230	14.5	Y	562	Includes table extensions & legs.
Jet JTAS-10XL50-3	2,149	10	3 1/8	50	40 x 27	CI	B	5	230/460	15/7.5	Y	562	Includes table extensions & legs.
Jet JWCS-10JF	1,249	10	3 1/8	30	40 x 27	CI	B	2	230	12	Y	359	Rail-mounted switch.
Jet JWCS-10PF	1,429	10	3 1/8	52	40 x 27	CI	B	2	230	12	Y	400	Motor cover; Xacta fence.
Jet Xacta Saw 66-50-1	2,099	10	3 1/8	50	40 x 27	CI	B	3	230/460	15/7.5	Y	562	Motor cover; Xacta fence.
Jet Xacta Saw 66-50-3	2,099	10	3 1/8	50	40 x 27	CI	B	5	230/460	15/7.5	Y	562	Motor cover; Xacta fence.
Lobo TS-1010	1,290	10	3	49	36 x 27	CI	B	3	115/230	36/18	Y	395	T-slot miter gauge groove.
Mini Max SC3	3,695	10	4	54	22 x 33	CI	B	3	230	14	Y	616	Sliding table; overarm guard.
North State MBS 250	1,150	10	3 1/8	50	36 x 27	CI	B	3	230	16	Y	407	Ball-bearing rollers in fence.
Powermatic 66	2,580	10	3 1/8	50	38 x 28	CI	B	3	230	17	Y	605	Accu-Fence.
Robland XZ	2,895	10	3 1/4	50	36 x 48	CI	B	3	230	25	Y	600	
Seco SK-1010TS	1,456	10	3	49	36 x 27	CI	B	3	230	NA	Y	495	5/8-in. arbor.
Star S3202	995	10	3 1/8	36	36 x 27	CI	B	3	230	15	Y	425	Sliding table; 56-in. fence opt.
Star S3204	1,050	10	3	36	36 x 27	CI	B	5	230	25	Y	450	Motor cover; 56-in. fence opt.
Sunhill MBS-250	1,145	10	3	49	36 x 27	CI	B	3	230	NA	Y	485	5-HP motor avail.
Sunhill MS-10TK	795	10	3 1/4	30	27 x 40	CI	B	2	230	12	Y	400	Magnetic controls.
Transpower TS200HA	790	10	4 1/4	30	40 x 27	CI	B	3	230	18	Y	450	
Transpower TS200HD	980	10	3	30	36 x 27	CI	B	3	230	18	Y	485	Fence has guide bearing.
Inca 2200	2,795	12	4 1/8	50	22 x 26	CI	B	3	230	18	Y	400	
North State MBS-300	1,975	12	4	50	30 x 48	CI	B	5	230	NA	Y	750	
Lobo HTS-0012	929	12	4 1/8	30	27 x 37	CI	B	3	115/230	36/18	Y	450	5/8-in. arbor; scoring attachment, opt.
Lobo TS-1212	1,890	12	4	49	48 x 38	CI	B	5	230	19.6	Y	704	T-slot miter; cast-iron ext. wings.
Mini Max S1	8,995	12	4	59	22 x 34	CI	B	9	230	25	Y	1,575	Sliding table; overarm guard.
Mini Max S300W	7,995	12	4	54	34 x 23	CI	B	6 1/2	230	24	Y	1,280	Sliding table; overarm guard.
Seco SK-1212TS	1,841	12	4	78	48 x 30	CI	B	5	230	25	Y	704	1-in. arbor.
Star S3206	1,250	12	4	36	40 x 29	CI	B	5	230	25	Y	500	Motor cover; 56-in. fence opt.
Star S3207	1,875	12	4 1/8	36	29 x 36	CI	B	5	230	25	Y	500	Optional 3-phase mount.
Sunhill MBS-350	2,750	12	4	49	48 x 38	CI	B	5	230	NA	Y	1,000	7 1/2-HP motor available.
General 550	3,895	14	4 7/8	50	48 x 38	CI	B	5	230	NA	Y	1,040	Magnetic starter.
General 550-1	5,250	14	4 7/8	30	48 x 38	CI	B	7 1/2	230	16	Y	1,040	Biesemeyer fence optional.
North State MBS-350	2,990	14	5	50	38 x 48	CI	B	5	230	NA	Y	975	
Lobo TS-1414	2,690	12	5	49	48 x 38	CI	B	5	230	15 - 21	Y	1,012	T-slot miter; cast-iron ext. wings.
Powermatic 72-A	4,381	14	5 1/8	50	38 x 48	CI	B	7 1/2	230	22	Y	930	Accu-Fence.
Seco SK-1414TS	2,920	14	5	48	48 x 38	CI	B	5	230	NA	Y	460	1-in. arbor.

KEY: Table Material: AL = aluminum, CI = cast iron, S = steel.

Drive Type: B = belt-driven, D = direct drive. NA = information not available. Y = yes. N = no. OPT = optional.

See page 144
for listing of manufacturers.

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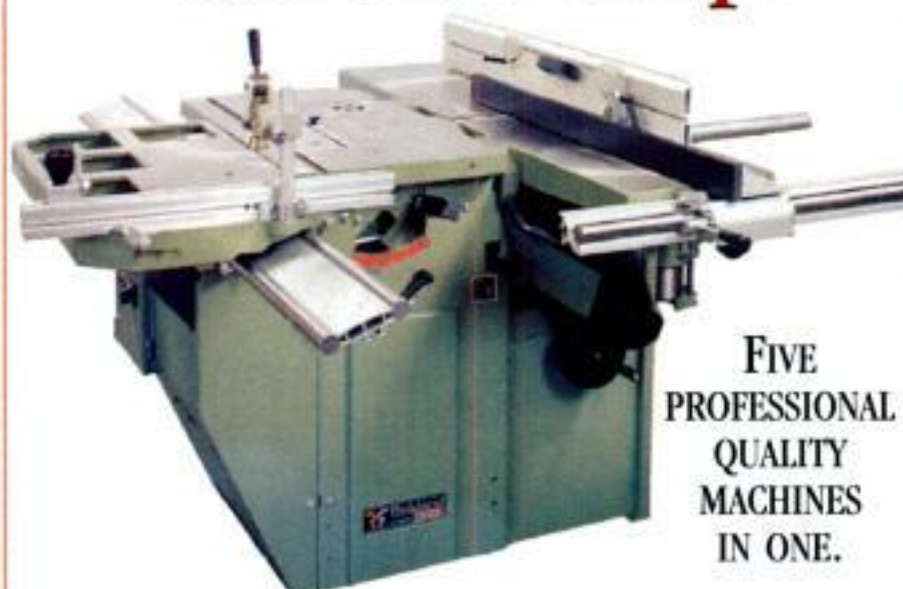
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CIRCLE NO. 48 ON PRODUCT INFORMATION FORM

ACCU-FENCE

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72A SAW



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64 SAW



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Powermatic® engineers and designers have developed the premier fence system. . . **The ACCU-FENCE.** The ACCU-FENCE head slide is designed without any "play" as you move the fence into position. The locking mechanism is made from extremely high wear resistant material which gives a positive lock. These important features allow you to **Just Set It and Lock It!** No more trying to find your mark two or three times. You spend your time cutting - not trying to set your fence.

The ACCU-FENCE has laminated covered side panels that provide a super slick surface for your material to

ride against. The important thing to note is how easy it is to change or adjust these side panels. It takes only a few minutes- not an entire day! The ACCU-FENCE side panels do not have exposed mounting screw holes that could catch your material as some fences do.

The ACCU-FENCE slides on Fluoroway, a reinforced Teflon material, that lasts a life time. The ACCU-FENCE is available as standard equipment on Powermatic® table saws. It is also sold as an accessory item that can be mounted on any table saw.

Try the ACCU-FENCE today and notice the difference!

POWERMATIC®

Internet Home Page: <http://www.powermatic.com>

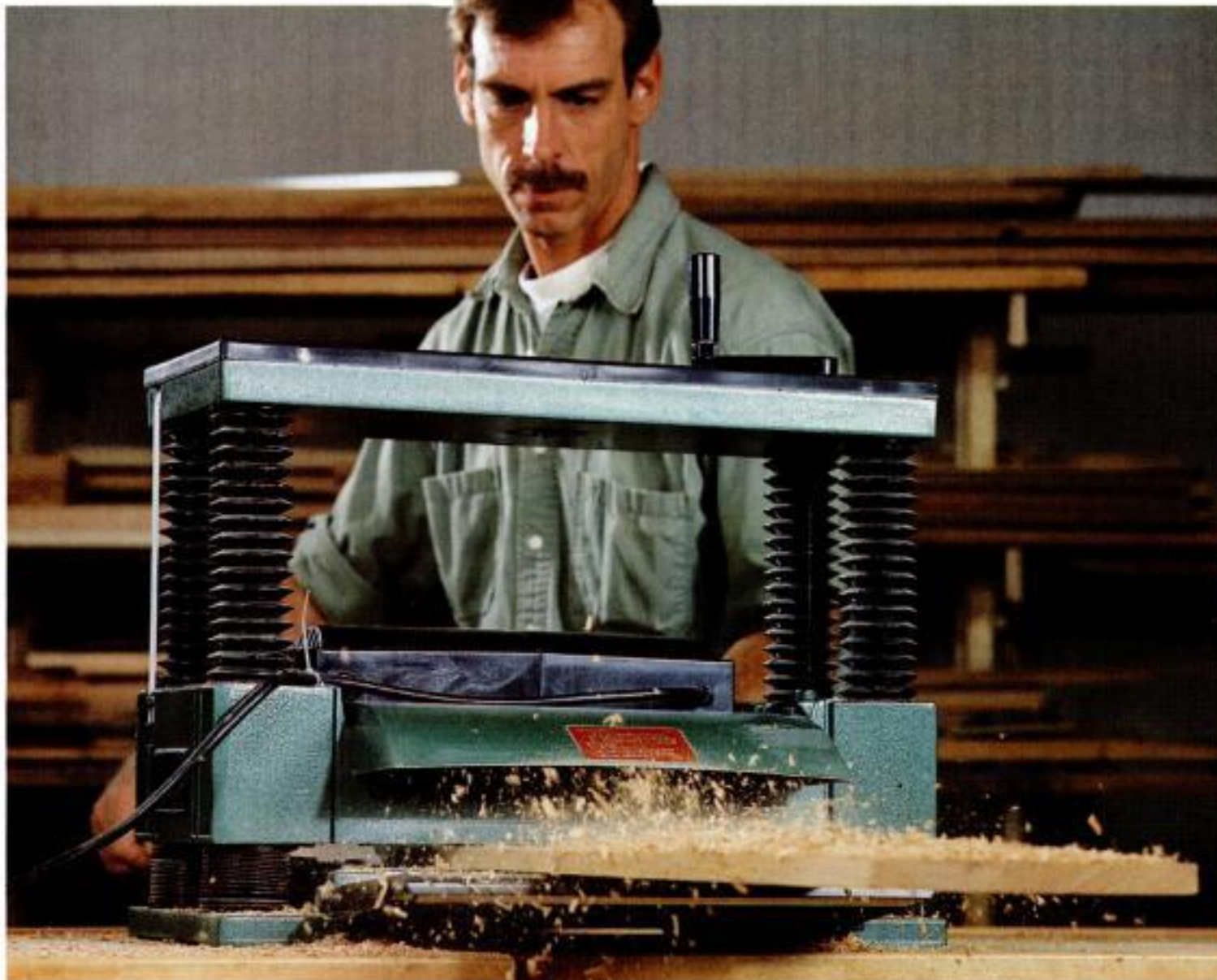
66 SAW



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CIRCLE NO. 71 ON PRODUCT INFORMATION FORM

thickness planers



Shaving it down to size.
A thickness planer lets you mill lumber to the exact thickness you want for your project.

Efficient, accurate woodworking depends on boards of uniform thickness. A thickness planer will mill stock to any uniform thickness you like, smooth roughsawn lumber, and true up the faces of glued-up panels. It's a machine no serious woodworker should be without.

When you feed a board through a planer, rollers press the board down flat on the table as rotating knives remove wood from the top face of the board. The board comes out thinner, with parallel faces top and bottom. A planer won't remove warp, twist or cup from a board unless one face is flattened first on a jointer or with a hand plane.

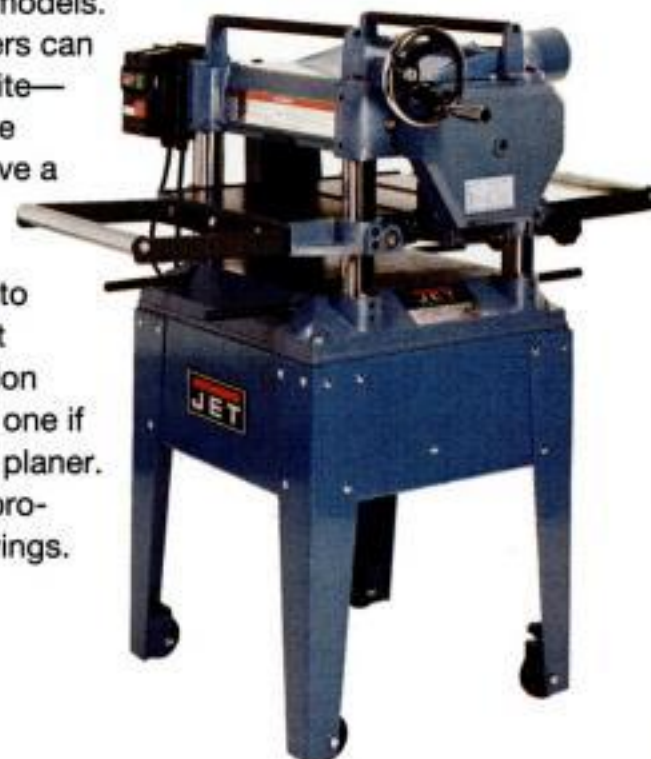
Planers are sized by the maximum width of stock they can handle; a 12-in. planer will surface boards up to 12 in. wide.

3 types of planers

STATIONARY PLANERS

A stationary, or floor-model, thickness planer is a key machine in any serious woodworking shop. With width capacities of 12 in. or more, these machines can surface wide boards and glued-up panels. They're also better at handling long boards, thanks to bed rollers and the infeed and outfeed rollers that are standard on some models.

Floor-model planers can also take a heavy bite—up to $\frac{5}{16}$ in. in some cases—so you'll save a lot of time when you've got large amounts of lumber to surface. If you don't have a dust-collection system, plan to get one if you're buying a big planer. These behemoths produce plenty of shavings.



features to consider

Number of Knives

Three- or four-knife cutterheads don't need to turn as fast as those with only two knives to produce the same number of cuts per minute. Lower rpm means quieter operation and longer life for moving parts.

Maximum Cutting Depth

When you're evaluating a planer's power, keep in mind that maximum cutting depth is just as important as the horsepower rating. As shown in the chart on page 134, maximum cutting depth ranges from $\frac{1}{16}$ in. to $\frac{5}{16}$ in.

A Good Bed

For heavy stock, nothing beats a cast-iron bed with bed rollers. (See photo, right.) You'll find this type of bed on many floor models. If you won't be planing long, large-dimension stock, a polished-aluminum or steel bed (found on most portable models) will do.



Entry level. Bed rollers and a cast-iron bed can handle heavy use and large, long stock.

Feed Rollers

Many stationary planers have serrated or textured steel rollers to push the board into the cutterhead. (See photo, above right.) These can leave marks, which are planed off as the wood passes through the cutterhead. A light pass, however, may not remove them.

The rubber-coated infeed rollers found on most portable planers leave no marks on the wood, but they wear out sooner

and don't grip as well as serrated steel rollers on long, heavy stock.

Extra Capability

Some planers can be fitted with molding knives and sanding drums. Check the Comments column in the chart.



Infeed rollers. Serrated infeed rollers are effective in moving heavy boards through the machine.

options worth having

Extra knives. A spare set is important for anyone with an aversion to downtime.

Knife-setting jig. If your thickness planer doesn't come with its own knife-setting jig, an aftermarket jig will pay off in accuracy and time savings.

Support stand. Aftermarket steel stands are available for portable planers, or you can build your own. Add locking casters, and you'll be able to move the machine out of the way when you're not using it.

Outfeed rollers. If you're working by yourself—and especially if you're planing long or heavy boards—outfeed rollers will take the place of a helper on the other side of the machine.

Dust hood. Planers produce mountains of shavings. Make sure to get a dust hood fitting so you can hook up a dust collector.

PORTABLE PLANERS

Portable models offer good value for small-shop woodworkers. Intended for light- or medium-duty use, many of these machines cost under \$500 and will handle boards up to 6 in. thick and 12 in. wide. (See chart.) Many woodworkers treat their portable planers like stationary machines, building a stand and adding infeed and outfeed supports to create a permanent workstation.

A couple of things to note: The high-rpm universal motors on most portable planers make them very noisy, so don't forget to wear ear protection. Also, if you're looking for a planer for frequent jobsite use, or if you need one that's small enough to move around a crowded shop, check out the weights listed in the chart. Some "portable" models weigh more than 70 lbs.



JOINTER-PLANERS

Combination machines, which utilize one motor for both jointing and planing operations, take up less space than separate machines. They sacrifice little in the way of features, but can take a few moments to switch functions.



for more info

Check out the detailed test results in our "Buyer's Guide to Portable Planers," AW #56.

thickness planers

New models in red.

For jointer-planers, see page 138.



Ryobi AP12



Craftsman 23378



Powermatic 100

Brand & Model	List Price	Max. Stock T x W (in.)	Max. Cutting Depth (in.)	No. of Knives x Rpm	Bed Material	Bed Rollers	Feed Rollers	HP	Volts	Weight (lbs.)	Comments & Features
Williams & Hussey W7	\$1,197	8 x 7	1/4	2 x 3,450	CI	N	—	2	115/230	85	Motor not incl.; molding capability.
Lobo WP-0010	369	5 x 10	1/8	2 x 8,000	A	Y	S, R	2	115	58	2 columns; safety switch.
Reliant NN910	270	5 x 10	1/8	2 x 8,000	S	N	S	2	115	58	Top carrying handle.
Grizzly G1017	399	5 x 12	1/16	2 x 8,500	S	N	R	2	115	80	4 columns.
AMT 4652	375	6 x 12	1/8	2 x 8,000	S	Y	R	2	115	68	DE knives.
Delta 22-540	518	6 x 12	3/16	2 x 8,000	S	N	R	NA	115	68	4 columns.
Makita 2012	1,148	6 x 12	3/32	2 x 8,000	S	N	R	NA	115	52.8	DED knives.
Penn State Super 125	329	6 x 12	3/32	2 x 8,000	A	Y	R	2	115	63	Opt. dust chutes.
Reliant NN912	400	6 x 12	1/8	2 x 8,000	S	Y	S	2	115	63	Top carrying handle.
Seco SK-0012WP	409	6 x 12	1/8	2 x 5,000	CI	Y	R	2	115	69	
Woodtek 900853	349	6 x 12	1/8	2 x 8,000	S	Y	S	NA	115/230	63	DE knives; adj. bed rollers.
Lobo WP-0012	395	6 x 12 1/8	1/8	2 x 1,600	A	Y	S, R	2	115	63	Top carrying handle.
PORTABLE	Hitachi P12R	6 5/8 x 12 9/32	3/16	2 x 10,400	S	N	R	2 2/5	115	62	Knife-setting gauge.
	Ryobi AP12	6 x 12 5/16	1/8	2 x 9,000	S	N	R	NA	115	63	DE rapid set knives.
	Craftsman 23383	5 x 12 1/2	3/32	3 x 4,500	CI	N	R	2 1/2	115	123	Molding capability.
	Delta 22-560	6 x 12 1/2	1/8	2 x 8,000	S	N	R	NA	115	65	Cutterhead snipe-control lock.
	Craftsman 23378	6 x 12 1/2	3/32	2 x 8,000	S	N	R	2	115	68	4 columns.
	DeWalt DW733	6 x 12 1/2	1/8	2 x 10,000	A	N	R	2	115	77	Cutterhead lock.
	Jet JWP-12-4P	6 x 12 1/2	3/32	2 x 8,000	CI	N	R	2	115	70	DE knives; top rollers, side handles.
	Star S3712	6 x 12 1/2	1/8	2 x 8,000	S	N	R	2	115	68	DE knives; 4 columns.
	Sunhill CT-340	6 x 12 1/2	1/8	2 x 8,000	S	N	R	2	115	67	4 columns.
	Tradesman 8312	6 x 12 1/2	1/8	2 x 8,000	S	Y	R	2 1/2	115	78	Top rollers; side handles.
	Shopsmith Professional Planer	4 x 12	1/8	3 x 5,750	CI	Y	S, R	1 3/4	115	151	Separate motors for feed & cutterhead.
	Powermatic 100	5 x 12	1/4	3 x 5,300	CI	Y	S	3	230	612	1-pc. cast-iron frame.
	RBI 812	8 x 12 1/8	3/16	3 x 5,500	S	N	R	3	230	254	Mold & sand.
	Belsaw 1120002	6 x 12 1/2	3/16	3 x 4,600	CI	N	R	5	230	350	Molding capability.
	Belsaw 985-Pro-Pack	6 x 12 1/2	3/16	3 x 4,600	CI	N	R	5	230	350	Molding capability.
FLOOR MODELS	Belsaw VP-3	6 x 12 1/2	3/16	3 x 4,600	CI	N	R	5	230	350	Designed for molding.
	Woodmaster 712	7 x 12 1/2	3/16	3 x 4,200	CI	N	R; S OPT	5	230	300	Var. feed; opt. mold, sand, saw.
	Jet JPM-13	5 x 13	3/32	3 x 4,500	CI	N	R	1 1/2	115/230	204	Molding capability.
	Grizzly G1037	6 x 13	3/32	3 x 5,000	CI	N	R	1 1/2	115/230	200	Molder planer.
	General 130-1	6 x 14	1/16	3 x 4,500	CI	Y	S	3	230	610	Transmission-type gear box.
	General 130-1-M1	8 x 14	1/8	3 x 4,500	CI	Y	S	3	230	650	
	AMT 4490	6 x 15	1/8	3 x 4,800	CI	Y	S	2	230	446	Lever adjusts feed.
	Bridgewood BW-15P	6 x 15	1/8	3 x 4,500	CI	Y	S, R	3	230	446	Top rollers for easy stock return.
	Grizzly G1021	6 x 15	1/8	3 x 5,000	CI	Y	S	2	230	475	4 columns; 2 speeds.
	Jet JWP-15HO	6 x 15	1/8	3 x 4,500	CI	Y	S	3	230	480	Adj. extension table rollers.
	Lobo WP-0015	6 x 15	3/16	3 x 4,500	CI	Y	S, R	3	230	520	Top rollers; 2-speed 16/20 fpm.
	Powermatic 15	6 x 15	1/8	3 x 4,500	CI	Y	S, R	3	230	484	Top rollers.

KEY: Bed Material: A = aluminum, CI = cast iron, S = steel. Feed Rollers: S = serrated steel, R = rubber coated. Y = yes. N = no. OPT = optional. — = not applicable. NA = information not available. Comments: DE = double-edge knives, DED = double-edge disposable knives.

Continued on page 136.

See page 144 for listing of manufacturers.

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3/8"	1"	1/4"	P1222	4.95
3/8"	1"	1/2"	P1223	4.95
1/2"	1"	1/4"	P1237	5.95
1/2"	1"	1/2"	P1238	6.95
1/2"	1-1/2"	1/2"	P1242	8.45
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5/8"	1"	1/2"	P1255	8.95
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1/4"	1"	1/4"	P1509	13.95
3/8"	1-1/4"	1/2"	P1514	26.95
1/2"	1-1/2"	1/2"	P1521	33.95



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A	B	SHANK	ITEM#	SALE
3/8"	1/2"	1/4"	P1803	\$6.95
3/8"	1"	1/4"	P1804	6.95
1/2"	1/2"	1/4"	P1806	7.45
1/2"	1"	1/4"	P1809	7.95
1/2"	1"	1/2"	P1810	7.95
1/2"	1-1/2"	1/2"	P1813	8.95



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R	SHANK	ITEM#	SALE
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3/16"	1/4"	P3104	8.95
3/16"	1/2"	P3105	8.95
1/4"	1/4"	P3106	9.95
1/4"	1/2"	P3107	9.95
5/16"	1/4"	P3108	10.95
3/8"	1/4"	P3110	12.95
3/8"	1/2"	P3111	12.95
1/2"	1/4"	P3114	13.95
1/2"	1/2"	P3115	13.95
5/8"	1/2"	P3116	16.95
3/4"	1/2"	P3117	17.95
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Jet JPM-13



Woodtek 875001



Delta 22-675

Brand & Model	List Price	Max. Stock T x W (in.)	Max. Cutting Depth (in.)	No. of Knives x Rpm	Bed Material	Bed Rollers	Feed Rollers	HP	Volts	Weight (lbs.)	Comments & Features
Reliant DD37	\$895	6 x 15	1/8	3 x 4,500	CI	Y	S	3	230	529	Top rollers for easy stock return.
Seco SK-0015WP	1,136	6 x 15	1/4	3 x 5,000	CI	Y	R	3	230	488	
Star S3715	900	6 x 15	1/8	3 x 5,000	CI	Y	S	3	230	475	Knife-setting gauge.
Sunhill CT-38B	879	6 x 15	1/4	3 x 4,500	CI	Y	S	3	230	506	Triple V-belt drive; magnetic controls.
Woodtek 875001	1,085	6 x 15	1/8	3 x 4,850	S	N	S	2	230	470	Adj. extension table.
Delta 22-675	1,469	6 1/2 x 15	3/16	3 x 5,000	CI	Y	S	2	230	363	Adjustable bed rollers.
North State 315	889	6 1/2 x 15	3/16	3 x 5,000	CI	Y	S	3	230	500	
Lobo WP-1015	869	8 x 15	1/8	3 x 4,500	CI	Y	S, R	3	230	480	
Transpower AP900	850	6 x 15	3/16	3 x 5,600	CI	Y	S	3	230	500	Single extension rollers.
Makita 2040	2,610	7 5/8 x 15 5/8	3/16	2 x 6,500	CI	Y	R	2	115	254	Ball & needle bearings.
Bridgewood BW-16PV	2,795	7 x 16	1/4	3 x 5,600	CI	Y	S	3	230	748	Var. feed; sectional infeed rollers.
Transpower AP800	740	8 x 16	3/16	3 x 5,600	CI	Y	S, R	3	230	480	Triple extension rollers.
RBI 816	1,999	8 x 16 1/4	5/16	4 x 4,600	S	N	R	5	230	440	Opt. mold, sand, saw; var. speed.
Powermatic 180	7,815	6 x 18	1/2	3 x 4,800	CI	Y	S	5	230/460	1,523	Quick-change cutterhead avail.
Woodmaster 718	1,777	7 x 18 1/2	3/16	3 x 4,200	CI	N	R	5	230	420	Var. feed; opt. mold, sand, saw.
Lobo WP-508	5,790	11 3/4 x 20	5/16	4 x 4,800	CI	Y	S	7 1/2	230	1,800	4 knives.
Seco SK-0020WP	1,739	6 x 20	1/4	3 x 5,000	CI	Y	R	3	230	882	
Seco SK-824WP	4,395	6 x 20	1/4	3 x 5,400	CI	N	S	7 1/2	230	1,606	
Bridgewood BW-200P	2,595	6 1/2 x 20	1/4	3 x 5,000	CI	Y	S	5	230	780	Anti-kickback fingers.
Seco SK-A720WP	2,676	6 1/2 x 20	1/4	3 x 5,200	CI	N	S	5	230	891	
Bridgewood BW-20PV	3,395	7 x 20	1/4	3 x 5,600	CI	Y	S	5	230	857	Var. feed; sectional infeed rollers.
Grizzly G1033	1,295	7 x 20	3/16	4 x 4,833	CI	Y	S	3	230	800	3-belt drive; 2 speeds.
Jet JWP-20H-1	4,134	7 x 20	1/4	3 x 5,600	CI	Y	S	3	230	1,058	Sectional infeed rollers.
Woodtek 816427	2,499	7 x 20	3/16	3 x 6,000	CI	Y	S	3	230	790	Top rollers.
Woodtek 816434	2,499	7 x 20	3/16	3 x 6,000	CI	Y	S	5	230	790	Top rollers; 3-phase.
Jet JWP-208-1	2,492	8 x 20	3/32	4 x 5,000	CI	Y	S	3	230	770	Magnetic switches.
North State CT-508	1,395	8 x 20	1/4	4 x 5,000	CI	Y	S	5	230	950	
Lobo WP-0020	1,590	8 x 20	1/4	4 x 5,000	CI	Y	S, R	3	230	920	Top rollers; 2-speed.
Lobo WP-1120	2,390	8 x 20	1/4	3 x 5,000	CI	Y	S, R	3	230	1,000	3-belt; 24 fpm.
Lobo WP-2000	2,990	8 x 20	1/4	3 x 5,500	CI	Y	S, R	3	230	1,100	30-5,500 fpm for production.
Star S3720	1,250	8 x 20	1/8	4 x 5,000	CI	Y	S	3	230	810	Knife-setting gauge.
Star S3725	1,400	8 x 20	1/8	4 x 5,000	CI	Y	S	5	230	850	Knife-setting gauge.
Sunhill CT-508	1,395	8 x 20	1/4	4 x 5,000	CI	Y	S	3	230	925	Triple V-belt drive.
Transpower AP720	2,100	8 x 20	1/4	3 x 5,200	CI	Y	S	5	230	1,100	Top rollers for easy stock return.
Transpower AP200A	1,245	8 x 20	1/4	4 x 5,600	CI	Y	S, R	5	230	882	Extension table rollers.
Delta 22-450	4,585	8 5/8 x 20	1/8	3 x 4,650	CI	Y	S	5	230	840	Adj. bed rollers, single phase avail.
Bridgewood BW-508	4,395	9 x 20	1/4	3 x 5,200	CI	Y	S	5	230	1,370	Separate motors for feed and cut.
General 330	8,500	9 x 20	1/8	4 x 4,500	CI	Y	S	5	230	2,000	

FLOOR MODELS

KEY: Bed Material: A = aluminum, CI = cast iron, S = steel. Feed Rollers: S = serrated steel, R = rubber coated. Y = yes. N = no. OPT = optional. — = not applicable. NA = information not available. Comments: DE = double-edge knives, DED = double-edge disposable knives.

Continued on page 138.

See page 144 for listing of manufacturers.

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Lie-Nielsen Toolworks	47	53	Woodwrite, Ltd.	101	107

thickness planers

Brand & Model	List Price	Max. Stock T x W (in.)	Max. Cutting Depth (in.)	No. of Knives x Rpm	Bed Material	Bed Rollers	Feed Rollers	HP	Volts	Weight (lbs.)	Comments & Features
Sunhill CM-510	\$3,675	9 x 20	5/16	3 x 5,000	Cl	Y	S	5	230	1,500	Quick-set bed rollers.
RBI 820	2,399	8 x 20 1/4	5/16	4 x 4,600	S	N	R	5	230	500	Opt. mold, sand, saw, var. speed.
Mini Max SP-1	7,195	9 3/4 x 20 1/2	5/16	4 x 4,500	Cl	Y	S	9	230/460	1,496	3-phase; very quiet.
Seco SK-820-WP	3,514	6 x 24	1/4	3 x 5,400	Cl	N	S	5	230	1,507	
Seco SK-A724WP5	2,850	6 1/2 x 24	1/4	3 x 5,200	Cl	N	S	5	230	1,144	

jointer-planers

New models in red.

For jointers, see page 92.



Robland XSD

See page 144 for listing of manufacturers.

Brand & Model	List Price	Max. Stock T x W (in.)	Jointer Max. Cutting W (in.)	Jointer Bed Length (in.)	No. of Knives x Rpm	Bed Rollers, Feed Rollers	HP	Volts	Weight (lbs.)	Comments & Features
Hitachi P12RA	\$2,203	6 5/8 x 12 9/32	6 1/8	28 11/32	2 x 10,400	N, R	2 1/2	115	99.5	Portable; jointer removable.
Lobo WP-10 JT	989	6 x 10	10	37	2 x NA	Y, S	2	230	260	
Inca 570	2,595	6 1/4 x 10 1/4	10 1/4	42	3 x 6,000	N, S	2	115/230	180	Tersa type cutterhead.
Euroshop JP-300	2,695	9 x 11 13/16	11 13/16	58 1/2	3 x 6,000	N, S	3.6	230	530	Opt. tersa type cutterhead
Robland XSD	2,695	9 x 12	12	55	3 x 6,000	N, S	3	230	700	Variable feed speed avail.
Hitachi F1000A	4,600	6 9/32 x 12 5/32	6 9/32	63 1/32	2 x 10,400	N, S	2 7/10	115	320	Collapsible jointer bed extensions.
Mini Max FS350	3,995	9 1/4 x 13 3/4	13 3/4	71	3 x 4,500	N, S	3	230	695	Optional slot mortiser.
Euroshop JP-410	4,975	9 x 16	16	78 3/4	3 x 6,000	N, S	4.8	230	957	Opt. mortiser

KEY: Bed Material: A = aluminum, Cl = cast iron, S = steel. Feed Rollers: S = serrated steel, R = rubber coated. Y = yes. N = no. OPT = optional. — = not applicable. NA = information not available. Comments: DE = double-edge knives, DED = double-edge disposable knives.

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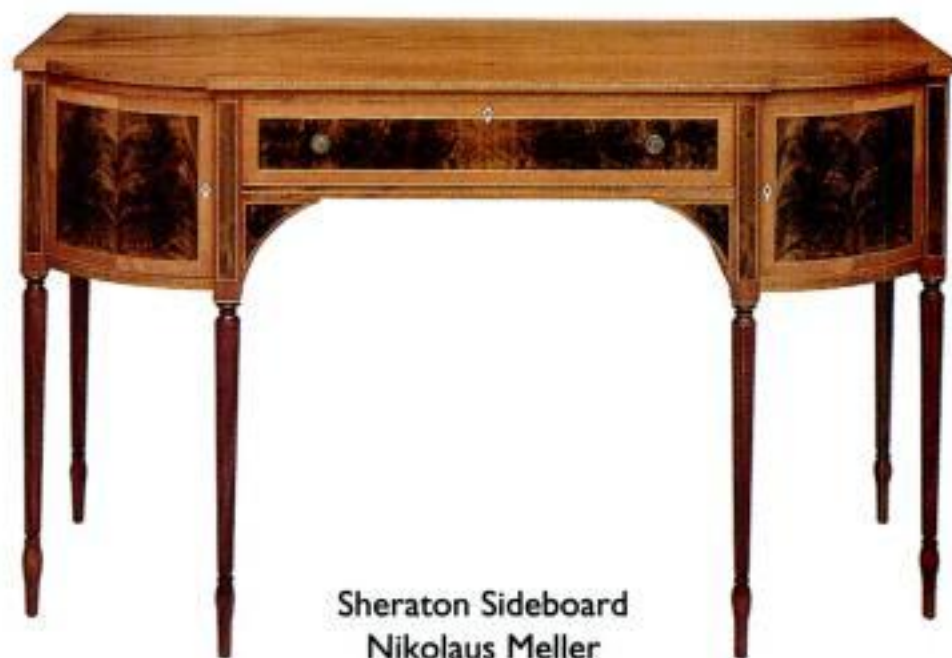
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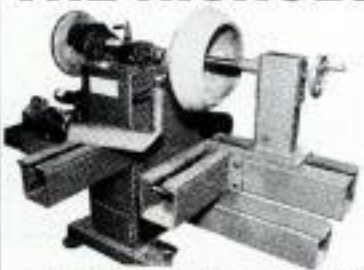
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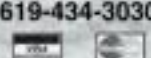
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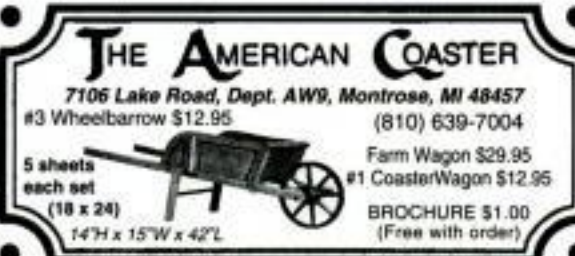
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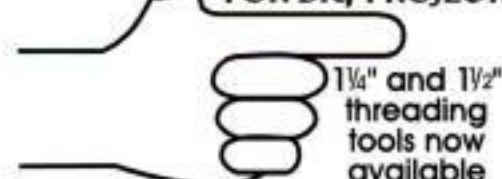
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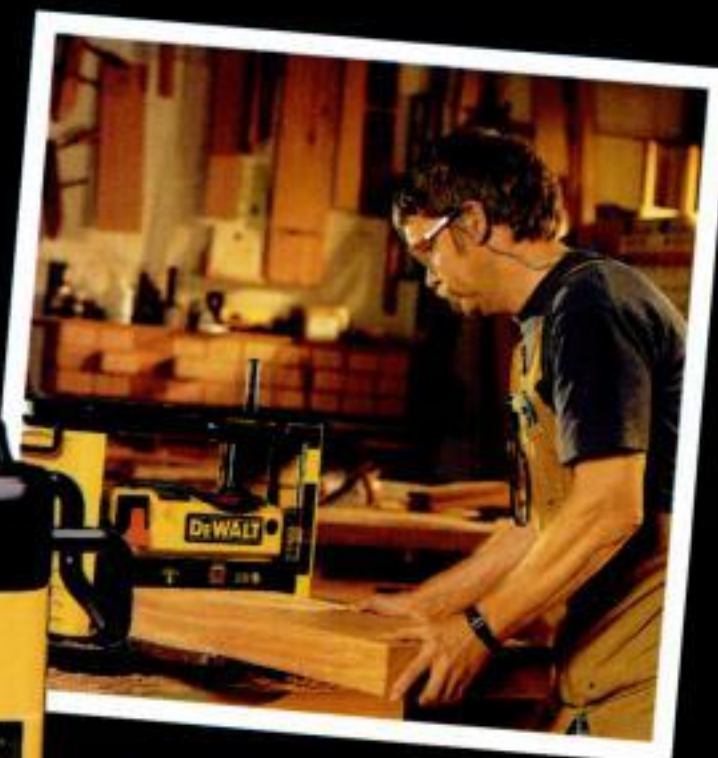


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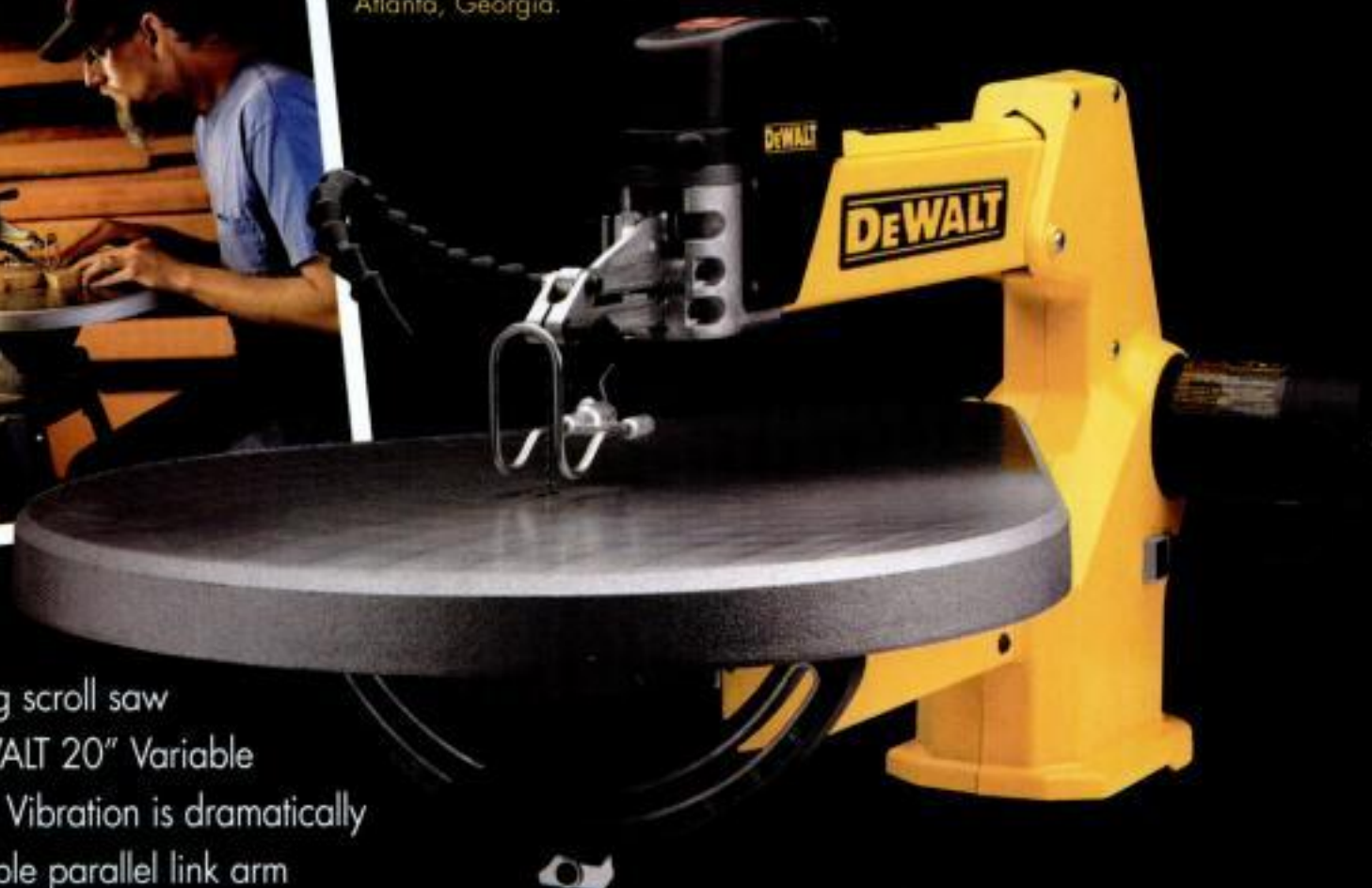
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