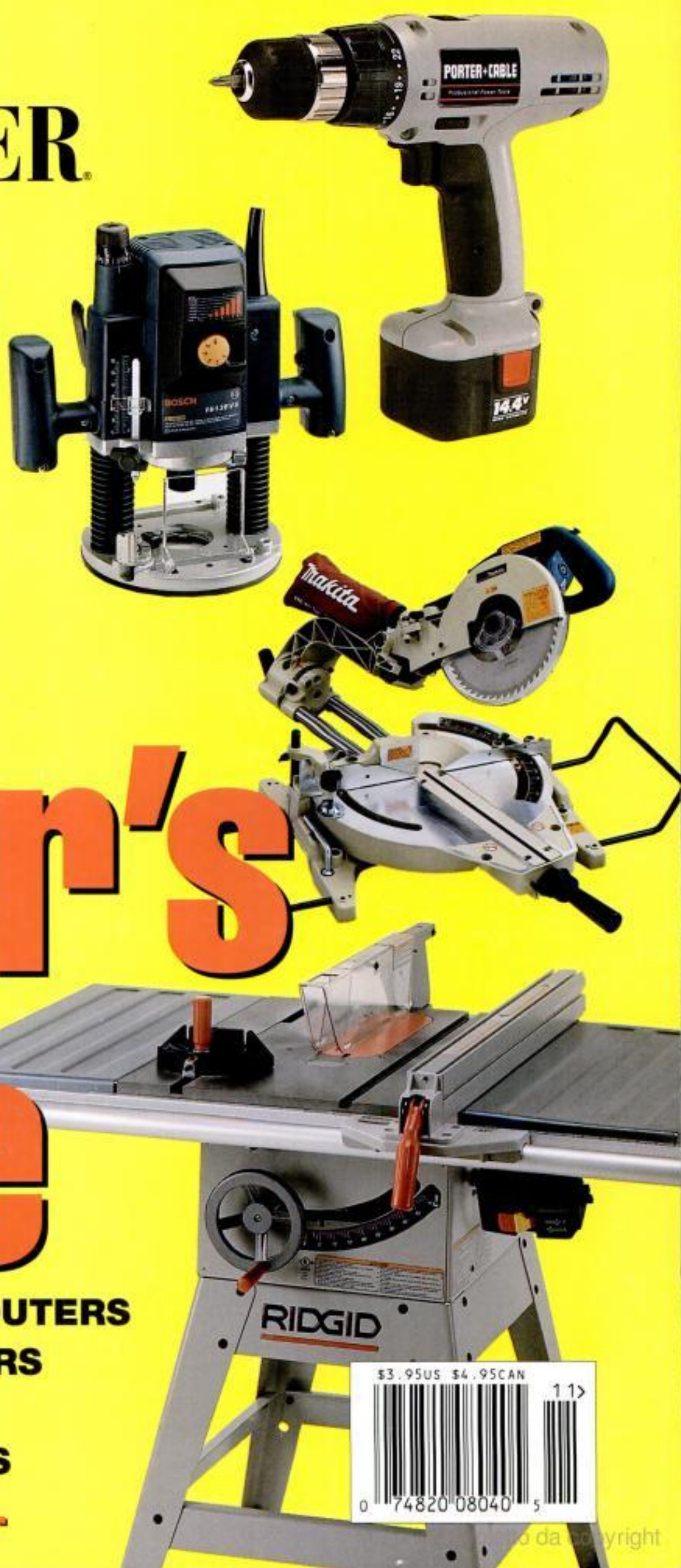


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1999 Tool Buyer's Guide

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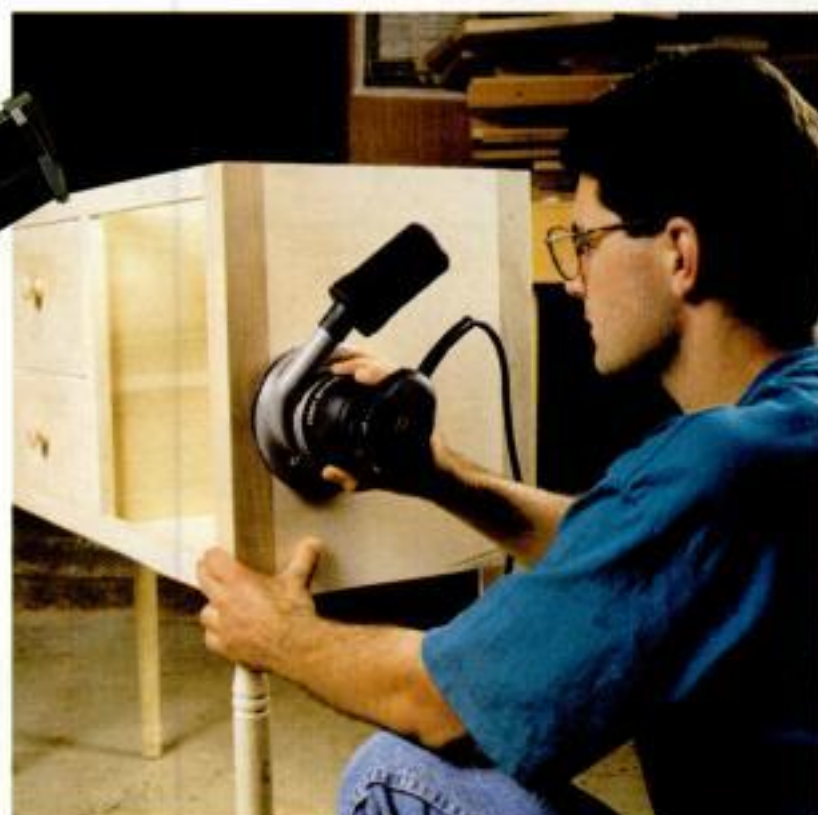
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AMERICAN WOODWORKER™

Issue No. 69, November 1998

This One



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Welcome

AMERICAN WOODWORKER's best-ever Tool Buyer's Guide

If you're shopping for a new tool or machine, here's the place to be

Let's build the best Tool Buyer's Guide ever! That's the challenge we set down when we started to plan this issue. We mailed out hundreds of questionnaires, sorted through stacks of follow-up faxes, and mounted a phone campaign that was both relentless and (mostly) courteous. It was an awesome project, and I want to say a very big "thank you" to the editorial team and to nearly 100 different manufacturers and suppliers who came through with the goods. Thanks also to the many readers whose feedback and suggestions have helped us improve this heavyweight undertaking.

I hope you can put these pages to good use, as you select and purchase the equipment that will take you into the new millennium.

Building a Better Workshop

Tools alone don't make a great workshop. For safety, efficiency, and enjoyment you need a workspace that's well organized. That's why we asked woodworker and writer Jim Tolpin to tackle the subject of shop planning and layout for this issue. (See page 15.) Jim's floor plans and shop layout advice will help you to get the most from your square footage.

Tim Snyder
Executive editor



How to Use this Guide

Take in the tool talk. For each tool or machine featured, you'll find a two-page overview packed with information for your buying decisions. The tool talk begins by explaining the woodworking functions of a specific tool or machine. You'll also learn how manufacturers categorize their products—by blade or belt size, throat capacity, horsepower, etc.

Pick your type. There are different types of models within many tool categories—benchtop and floor versions, for example. Check out the advantages and limitations of each type, and make your choice.

Evaluate features and options. Under the "Features to consider" headline, you'll get the scoop on what makes a tool easier to operate, more durable, or simply a better value. You'll also find valuable insights under "Options worth having."

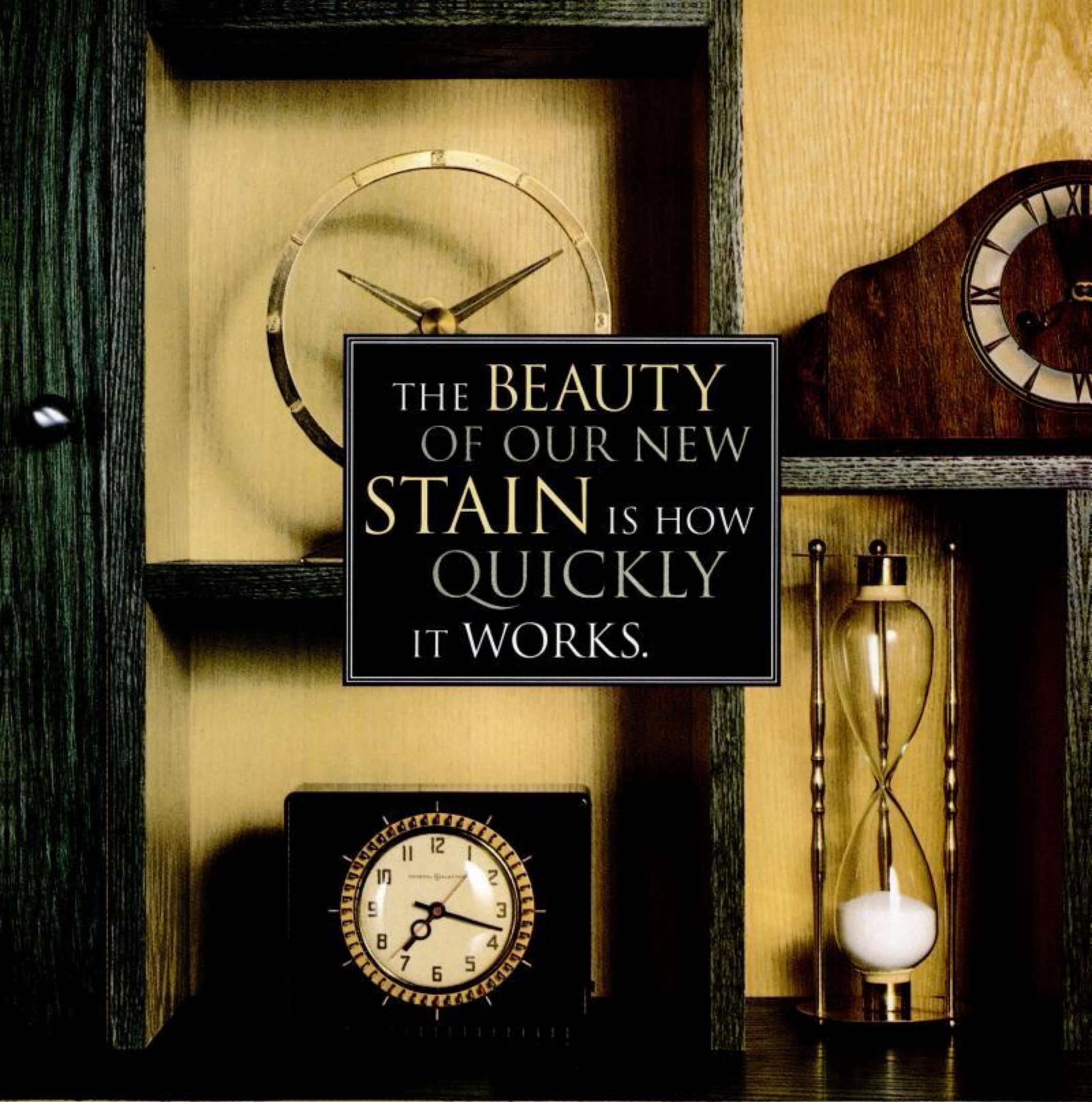
Check the specs. The charts contain the key specifications you need to compare different models. We've pared down the specification headings to give you the information that's most important. Within every tool category, you'll find new models highlighted in red.

NEW Buyer's Guide Recommendations. The bullet ● marks you see in the charts identify specific models that have been tested in the AMERICAN WOODWORKER shop and recommended for good performance and good value. *Note: Some manufacturers offer several variations of the same basic machine, each with its own model number. In those cases, we've bulleted only the specific models we've actually tested.* There are plenty of tools we haven't tested, and one of these might be just right for your shop.

Start shopping. The suggested list prices given in the charts will be considerably higher than actual "street" prices from mail-order suppliers and retail dealers. If you're having trouble locating a mail-order supplier or retail outlet, try calling the manufacturer directly. Manufacturers' numbers are given on page 152.

Where to go for more info. We publish in-depth tool tests in every regular issue of AMERICAN WOODWORKER. Of course, you'll also find plenty of other useful articles: the best in jigs, joinery techniques, and projects; first-class finishing advice; expert solutions to common woodworking problems; and more. And don't forget AMERICAN WOODWORKER Online. It's amazingly easy to log on and check out tons of tool talk on our well-organized message boards. Visit us at America Online (keyword "wood") or on the World Wide Web at <http://www.americanwoodworker.com>.

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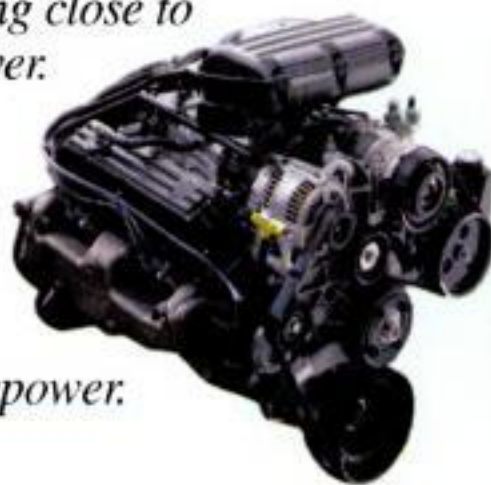
If horsepower were taxable, our 8 liter Magnum® V-10 alone would be an auditor's dream. At 310 horsepower, we'd have to declare it the most powerful gasoline pickup engine available. A fitting title, indeed, for what was the very first 10-cylinder pickup engine the world had ever seen.

Dodge Ram's 5.9 liter Magnum V-8 is not easily overlooked, either. Put it down as a very substantial contribution of 245 horsepower. And while we're at it, we

mustn't forget to account for the other Magnum V-8, the 5.2 liter. That adds another 230 horsepower to the Dodge Ram Magnum engine lineup.

File away another 175 horsepower for the standard 3.9 liter V-6, and we're totaling close to a thousand horsepower. Impressive.

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were taxable, be all over us.



For you torque-crunchers out there, the 24-valve, 5.9 liter Cummins tops out at 460 lb.-ft.

It's a good thing power isn't taxable.

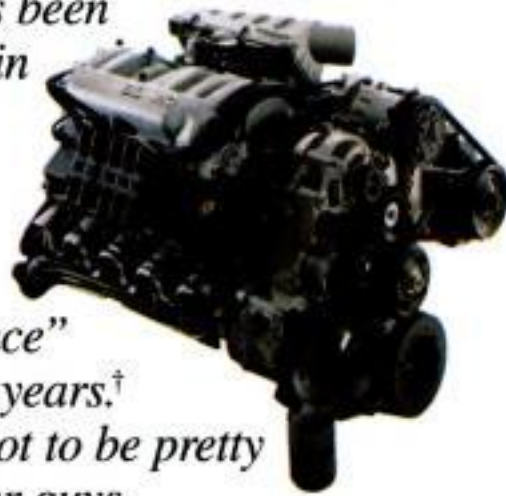
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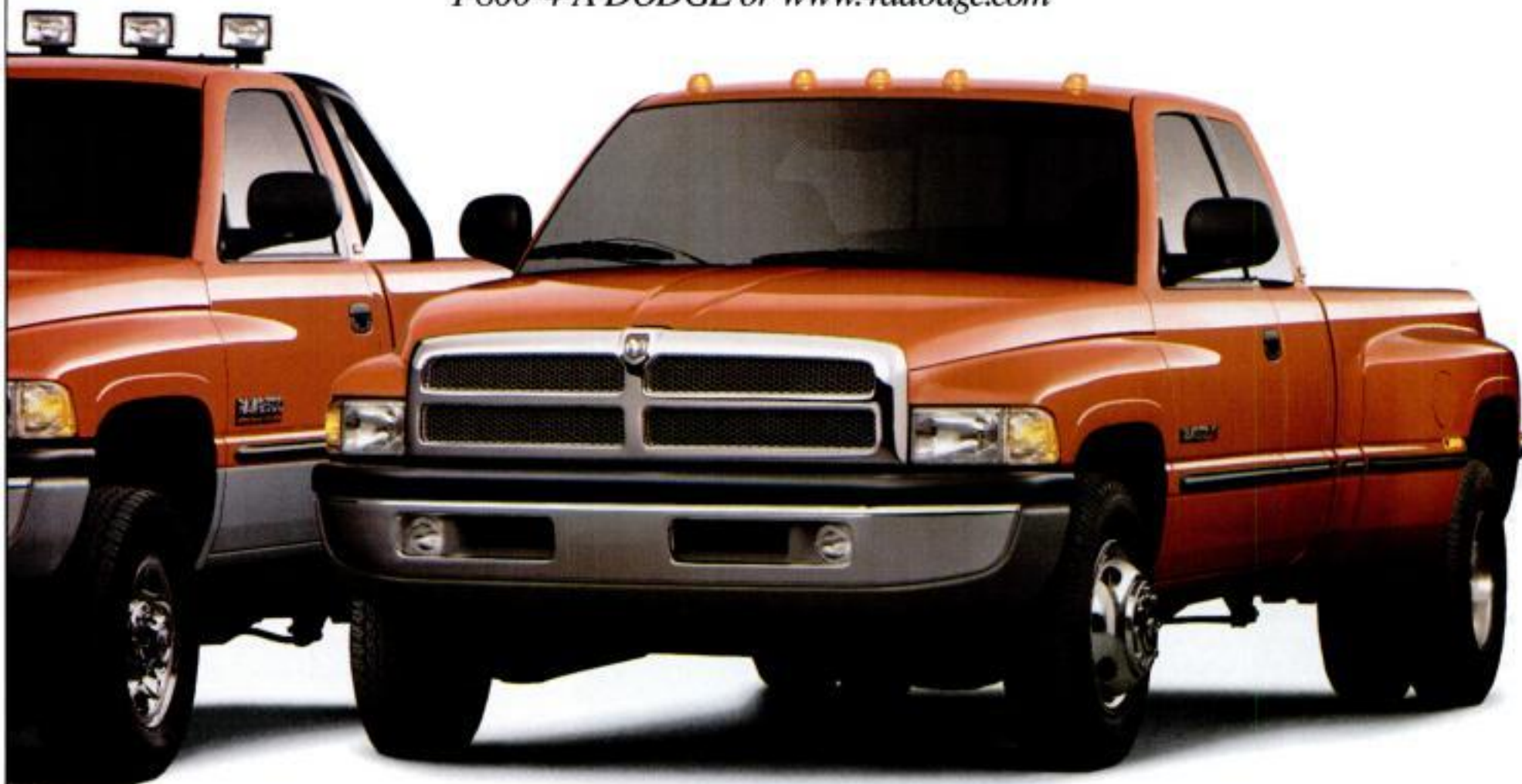
You know, that's got to be pretty taxing for those other guys.



*Based on percentage of 7/88-7/97 new pickup registrations still registered on 7/1/97. Data source: The Polk Company. †Winner of Strategic Vision's 1995, 1996, 1997, and 1998 Total Quality Award™ for "Best Ownership Experience" in the Full-Size Pickup class. 1998 Vehicle Experience Study™ surveyed 32,191 Oct.-Nov. new vehicle buyers of 200+ models after the first 90 days of ownership. Always use seat belts. Remember a backseat is the safest place for children.

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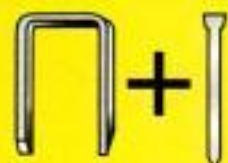
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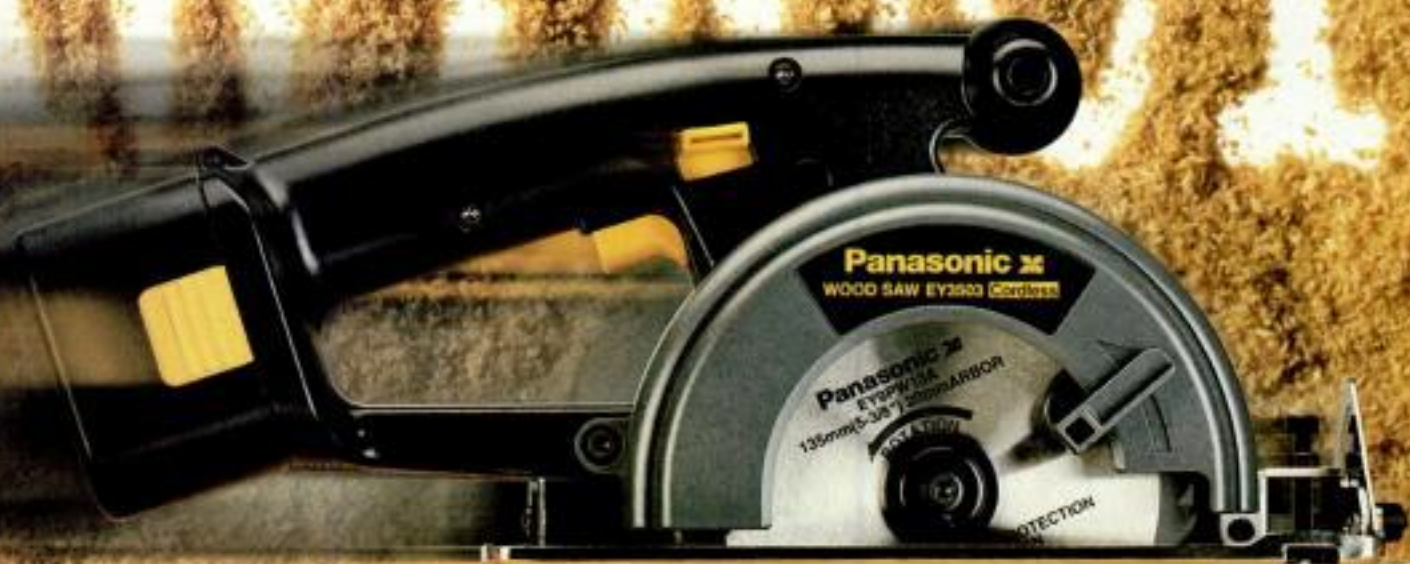
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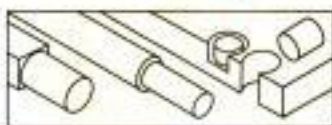
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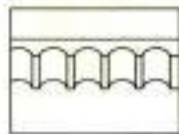
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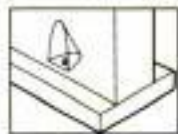
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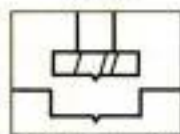
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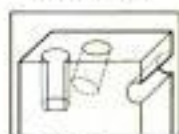
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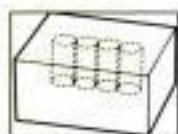
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workshop layout

*It's time to get organized.
Put proven floor plans and sound advice to work in your shop*

by Jim Tolpin

Smart use of space. Tolpin's knock-down assembly table is supported by interlocking plywood legs that stack flat against a wall when not in use. Portable power tools get individual cubbyholes.

It's always exciting to acquire a new tool or machine. You study the reviews and specifications, tune in to the tool talk among fellow woodworkers, shop around for price breaks, and finally commit the cash.

Now for the big question: Where does it go in my shop? And as the size of your acquisition increases, so does the shop layout challenge. In this article, I'll show you how to make the most of your shop space, using three different examples: a one-car garage, a two-car garage, and an L-shaped basement shop. You'll also find some helpful advice in the "Smart Shop Layout" tips that run through the article. ▶



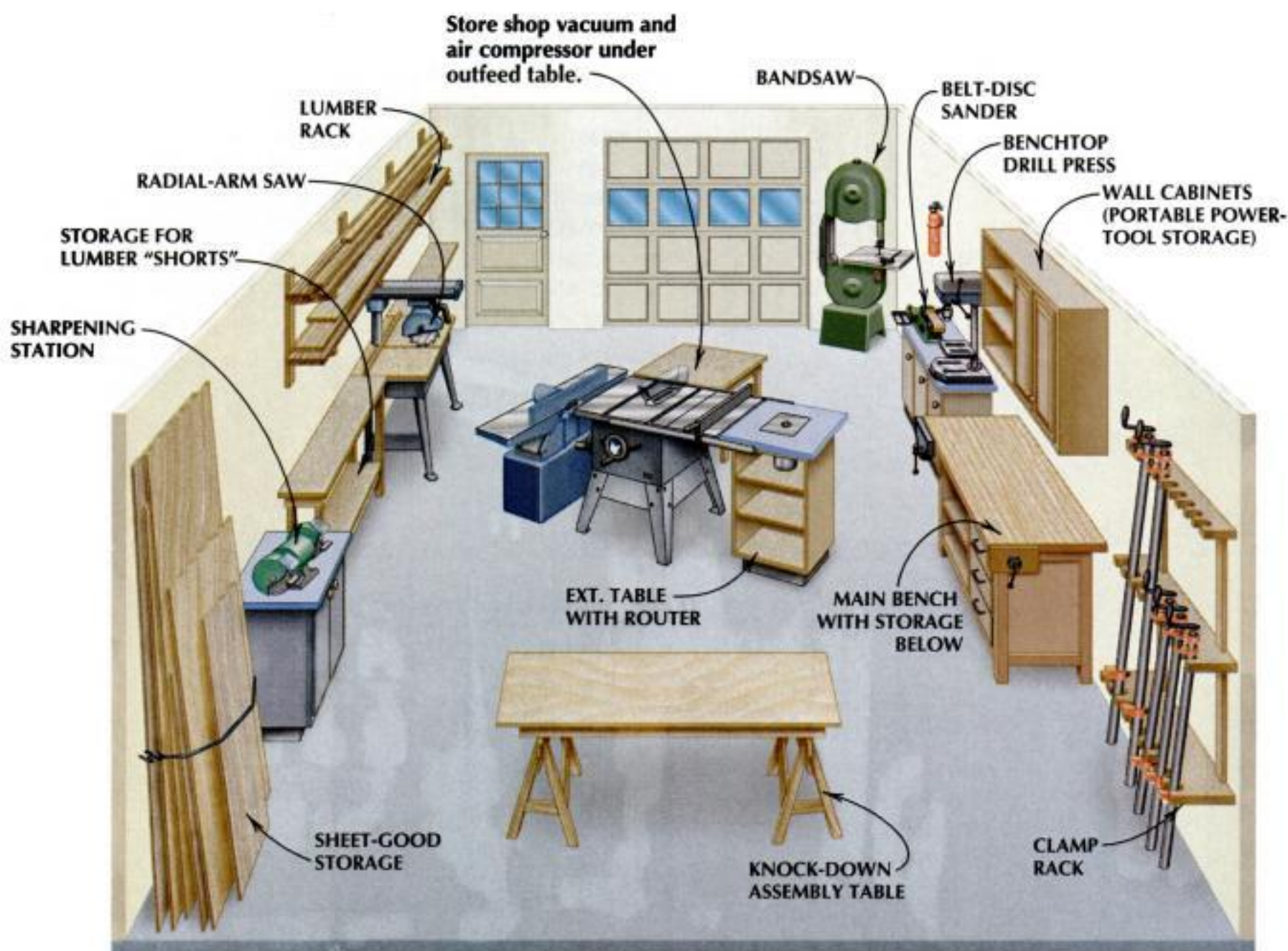
PHOTOS BY CRAIG WESTER

one-car garage

390 sq. ft.

I ran my cabinetmaking business out of a garage like the one shown below for about a year. Its size was 16 ft. by 24 ft. The tablesaw, jointer, and an attached router table form a machinery cluster at the center of the shop. Not shown is my portable thickness planer. I mounted my planer on a ladder-type frame

and suspended it from the ceiling on pulleys. To use the planer, I simply lowered the frame onto sawhorses. The assembly table is a rigid plywood platform that can be supported at different heights, depending on the task. When not in use, it can be stacked against a wall to free up more floor space.



ILLUSTRATIONS BY FRANK ROHRBACH

Smart Shop Layout

10 tips for getting the most from your shop space

1 Let the tablesaw hold center stage. This is the most important machine in most cabinetmaking shops. It deserves all the space you can give it, and it's the first machine to position in your shop layout plan. Garage doors or other openings can provide additional infeed or outfeed clearance. I'm a

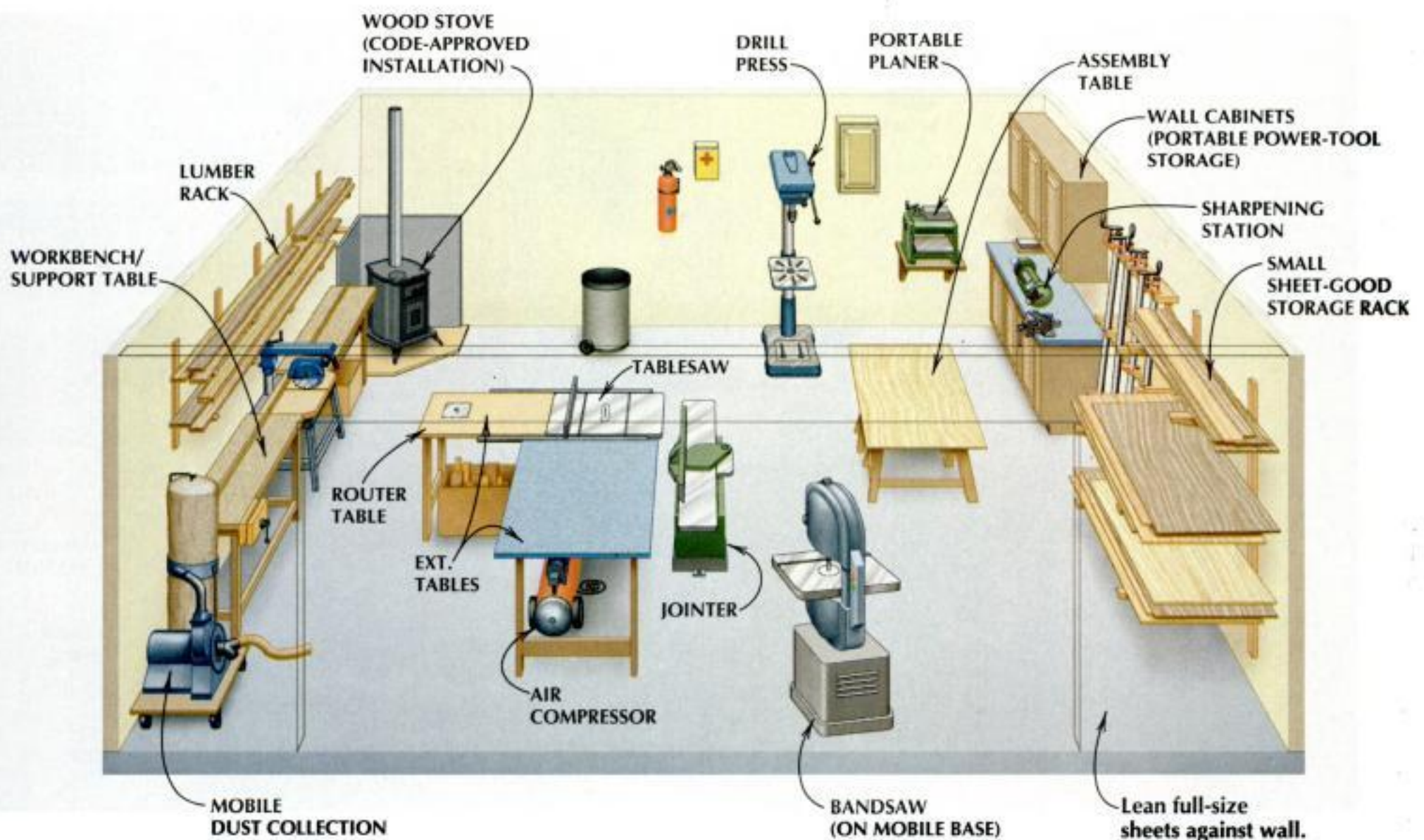
strong believer in extension tables for the tablesaw. They enable you to cut sheet goods safely and easily, and the tables do double duty as work surfaces.

2 The jointer and table-saw go together. This combination makes economical use of space, and

two-car garage

530 sq. ft.

The tablesaw, jointer, and router table occupy the center of the shop. The remaining tools and work areas are located on perimeter walls to keep the floor plan as open as possible. The knock-down assembly table can be positioned at the infeed side of the tablesaw to help with ripping large sheets, or close to the sheet-storage rack.



it's compatible with stock-dimensioning work flow. You can joint edges and then rip boards to width with maximum efficiency.

3 Go mobile. Putting machinery on wheels enables you to reconfigure your shop space in a jiffy, and do so without throwing

out your back. Manufactured mobile bases are available, or you can make your own.

4 Pay attention to work-surface heights. The top surfaces of shop carts, workbenches, router tables, and tablesaws shouldn't interfere with each other when you're processing

material. Keep these heights the same and you can use different work surfaces for infeed or outfeed support.

5 Consider a knock-down assembly table. This work platform doesn't take up valuable floor space when it's not in use because you can stack its parts

against a wall. The table's rigid top is made from plywood and cleats, and can be supported at different heights to suit the work you're doing. I rely on sawhorses for support when I need a high working height, or I use an interlocking grid of $\frac{3}{4}$ -in.-thick plywood. I also have a lower, 12-in.-high

L-shaped walkout basement

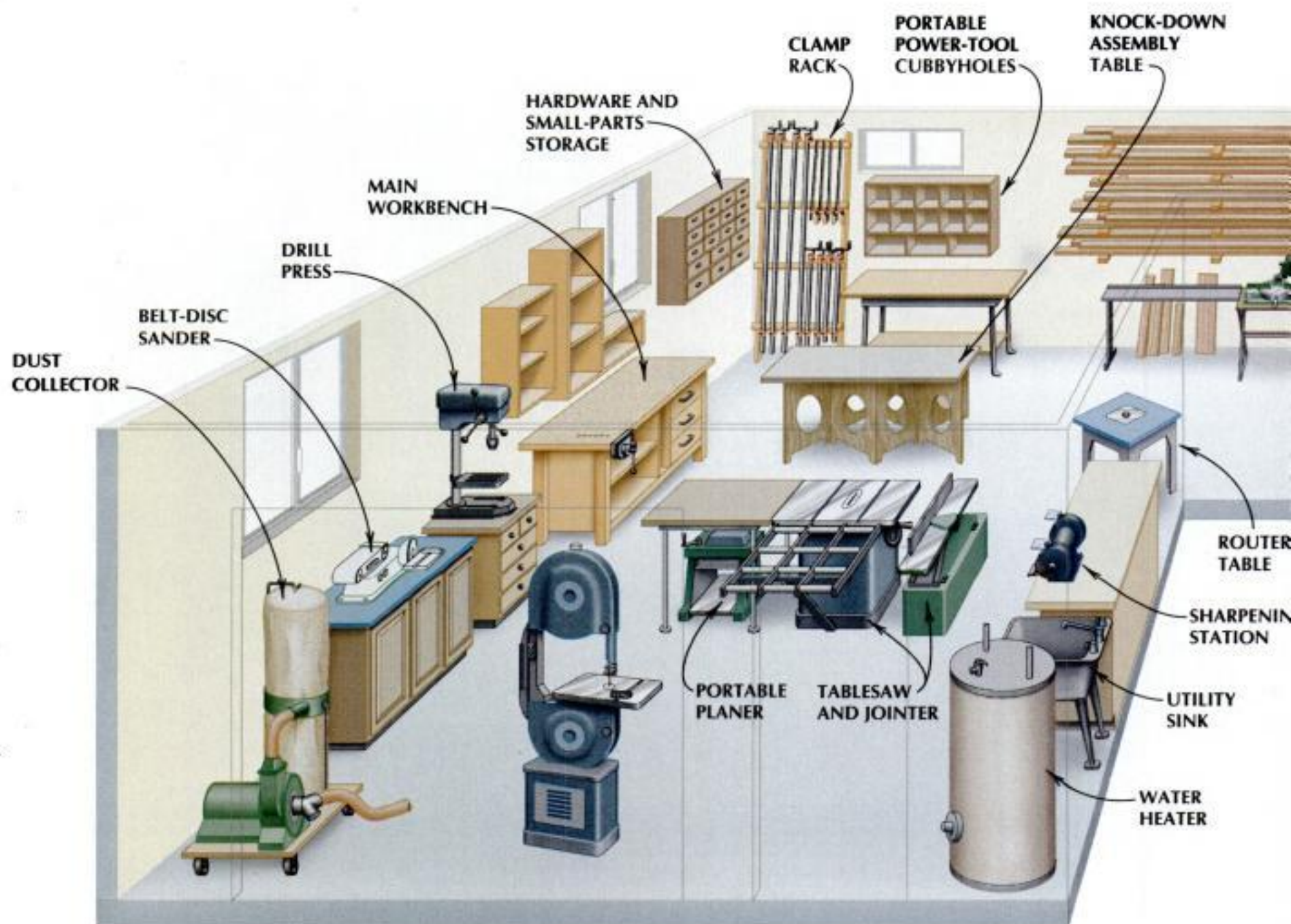
700 sq. ft.

This is my current shop, located in the basement of my ranch-style house. As built, the basement's workshop potential was severely limited by its 7-ft. ceiling. I had the house jacked up off its foundation and built "pony" walls to add 2 ft. of basement headspace. The project cost about \$10,000, but transformed a cramped basement into a very nice shop space.

One side of my shop has a walkout end with a garage door; this makes it easy to move materials in and out. The lumber rack and sheet-good storage areas are at the back—a disad-

vantage. But I use the top of my tablesaw as a transfer station when moving wood around. The router table is positioned at the inside corner to allow clearance for running long stock.

It's great to have a utility sink in your shop, as I do. I located my sharpening station right next to the sink, so I can go right from the grinder to my waterstones. If you have water lines running overhead, watch for condensation drips that might stain wood or cause rust on machinery surfaces. Pipe insulation will usually eliminate this problem.



Smart Shop Layout *continued*

grid to support a work surface for assembling cabinets. (See drawing, above.)

6 Use pigeonholes for portable power tools.

In my current shop, I've finally arrived at the best way

to store portable power tools like sanders, routers, drills, and biscuit joiners. Each tool and its accessories, such as wrenches, gets its own cubbyhole. This eliminates the interlocking tangles of electrical cords you get when

storing tools together. It also makes tools easy to spot and replace—an important consideration if you're working with an assistant.

7 Large doors are best.

No one wants to struggle getting materials into a shop and finished products

out. In a one- or two-car garage, this problem is licked, thanks to overhead doors. Otherwise, plan to provide at least a double-door opening. Outside access to the doorway should allow vehicles to approach as close and straight on as possible.



King and queen. The tablesaw and jointer form an efficient alliance at the center of Tolpin's shop.

SLIDING COMPOUND
SAW STATION AND
LUMBER RACK



STORAGE AND
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Exploiting wall space. Tolpin's main lumber rack juts out from the wall above his sliding compound saw. An end wall bulges with built-in shelves. Sheet storage is to the right.

A better basement shop. Raising the main floor level gave the author more headroom in his basement shop. A utility sink and a garage door are other important assets.



8 Store wood where you cut it. Long boards can be stored in racks over my sliding compound saw. Shorts can be stored underneath the saw's side extension tables. Likewise, the area for sheet storage should never be too far from the tablesaw.

9 Find hidden space. The space between ceiling joists is great for storing long items such as lengths of molding. Exploit under-bench areas, but remember that low shelves tend to collect lots of sawdust; cabinets with doors are better.

Make complete use of your walls. Tools, jigs, templates, and hardware bins are all great candidates for wall storage. The less frequently an item is used, the higher it can go on the wall. Rarely-used items can live on high shelves or cabinets installed near the ceiling.

10 Don't forget the sharpening station. The grinder, waterstones, and associated sharpening equipment deserve their own spot, away from the clutter and dust of other operations. This makes it easy to restore an edge, even if you're right in the middle of a job.

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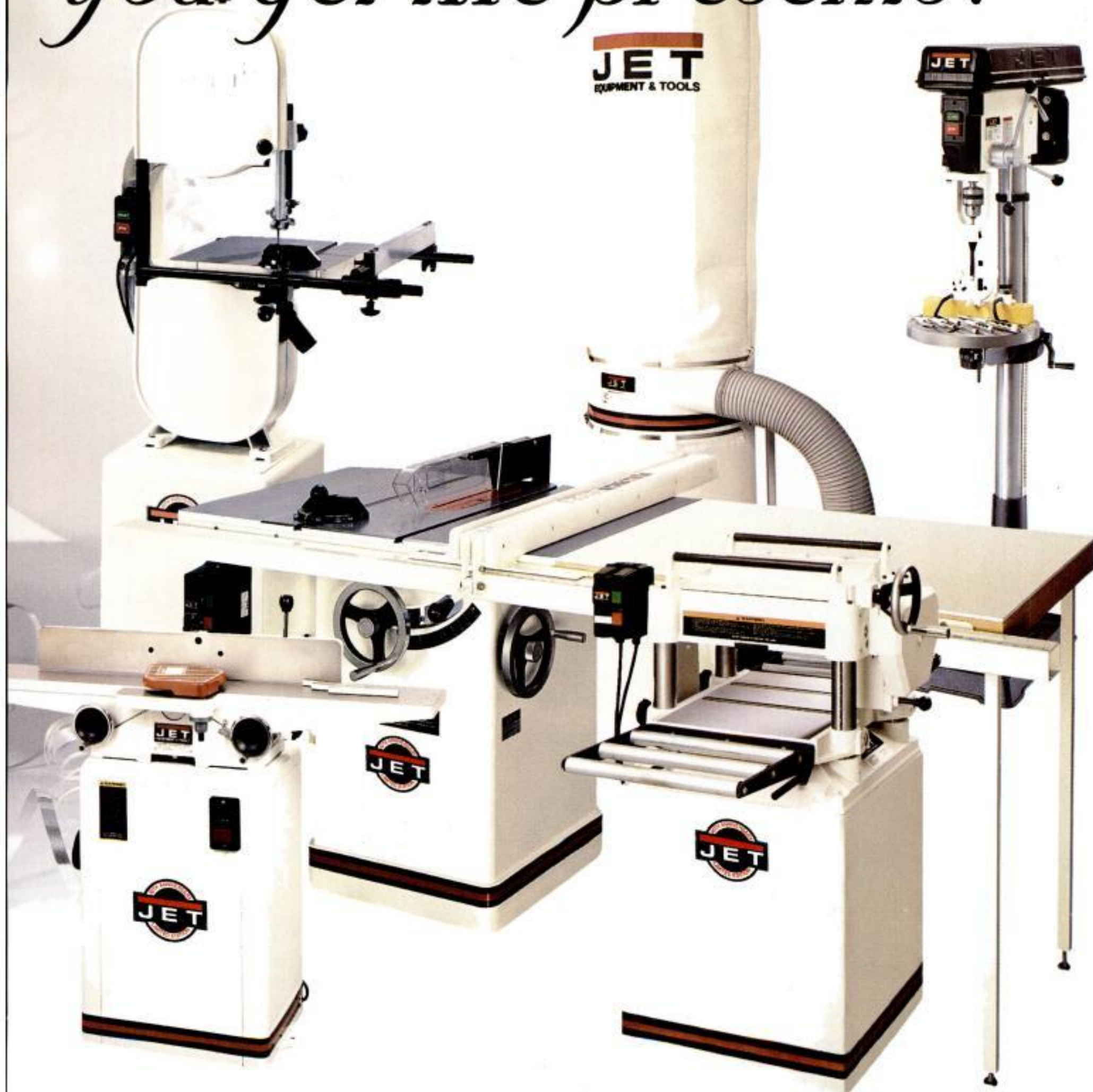
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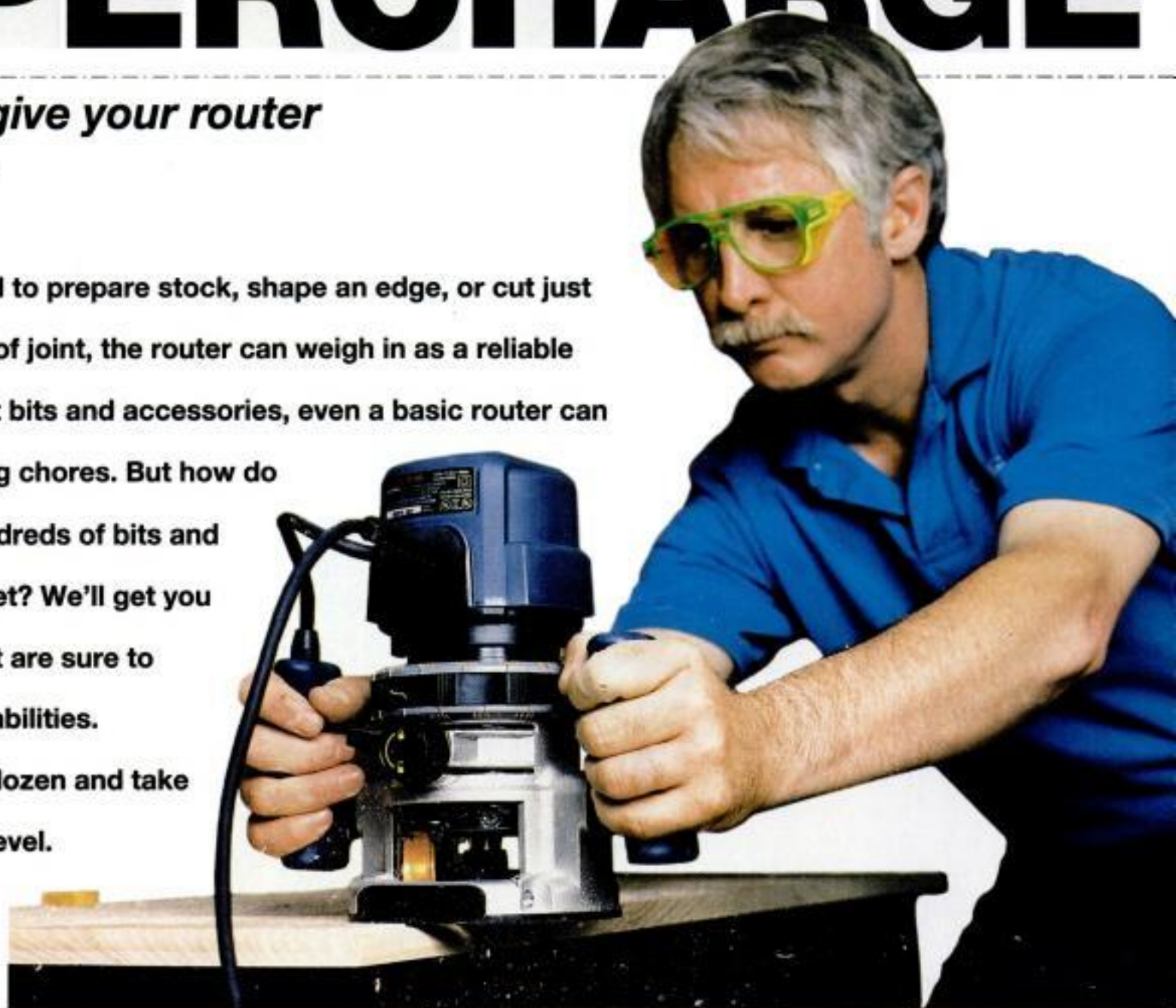
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SUPERCARGE

12 products to give your router more versatility

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Check out this dynamic dozen and take your routing to the next level.



Beyond the Basic Bit Kit

Most woodworkers start out with a handful of basic router bits: straight, round-over, cove, and so on. From there, the sky's the limit. To help you grow your bit collection and get the most bang for your buck, we've come up with a short list of six bits. These versatile performers take you beyond the basics, offering plenty of routing possibilities.



A special breed of rabbet. Supplied with seven interchangeable pilot bearings, this 1³/₈-in.-dia. rabbet bit can produce rabbets ranging from 1/8 in. to 1/2 in. wide, and it can even do flush-trimming work. (Rabbet-Master Plus #600-640: \$39.90, Jesada Tools, 800-531-5559) Circle #601



YOUR ROUTER



Prolific profiler.

With this one versatile bit in your table-mounted router, you can produce dozens of different molding profiles. Just raise or lower the bit to expose the portion of the cutting edge you want to use. (Multiform bit #WL-1422: \$45, Woodline Arizona, 800-472-6950) Circle #603

Duplicating parts. Cut part after part, every one an exact duplicate of the pattern. Use your router and a straight pattern bit, which has a shank-mounted pilot bearing. The bearing rides on the edge of the pattern, directing the path of the cutter. (Pattern bit with top bearing #50-122: \$59.00, Freud. Call 800-472-7307 for nearest dealer) Circle #602



Wide cut, clean bottom. Whether it's cutting a tenon's cheeks, planing stock with troublesome grain, or cutting hinge mortises, a large-diameter mortising bit expedites the work. The bit's design makes the bottom of the cut as smooth as the sides. (Mortising bit #601-818: \$33.80, Jesada Tools, 800-531-5559) Circle #601



Slot-cutting flexibility. Cut a variety of mechanical edge joints, from laps and tongue-and-groove to spline and biscuit joints. The slot-cutting set comes with four two-wing cutters of different thicknesses, shims, and a pilot bearing. (Quadraset adjustable slotting set #53600: \$65, Amana, 800-455-0077) Circle #604

Auger action. Spiral-fluted straight bits produce super-smooth cuts and are great for cutting mortises, dadoes, and rabbets. They can also do all kinds of edge-trimming work. (About \$35 for a 1/2-in.-dia. bit. MLCS, 800-533-9298) Circle #605



Great Ways to Guide Your Router

Guides and jigs are accessories that control your router's motion as it cuts and shapes wood. Properly guided, a router can cut dead-straight grooves, perfectly curved circles and ellipses, clean mortises, and recesses for inlays. Here are six guides that take the fuss out of making all kinds of precise cuts.



Cutting parallel to an edge.

A well-designed edge guide not only controls the router while profiling edges and cutting dados and mortises, it also makes micro-adjustments with ease and precision. (Micro Fence #MFC: \$125, Micro Fence, 800-480-6427) Circle #606



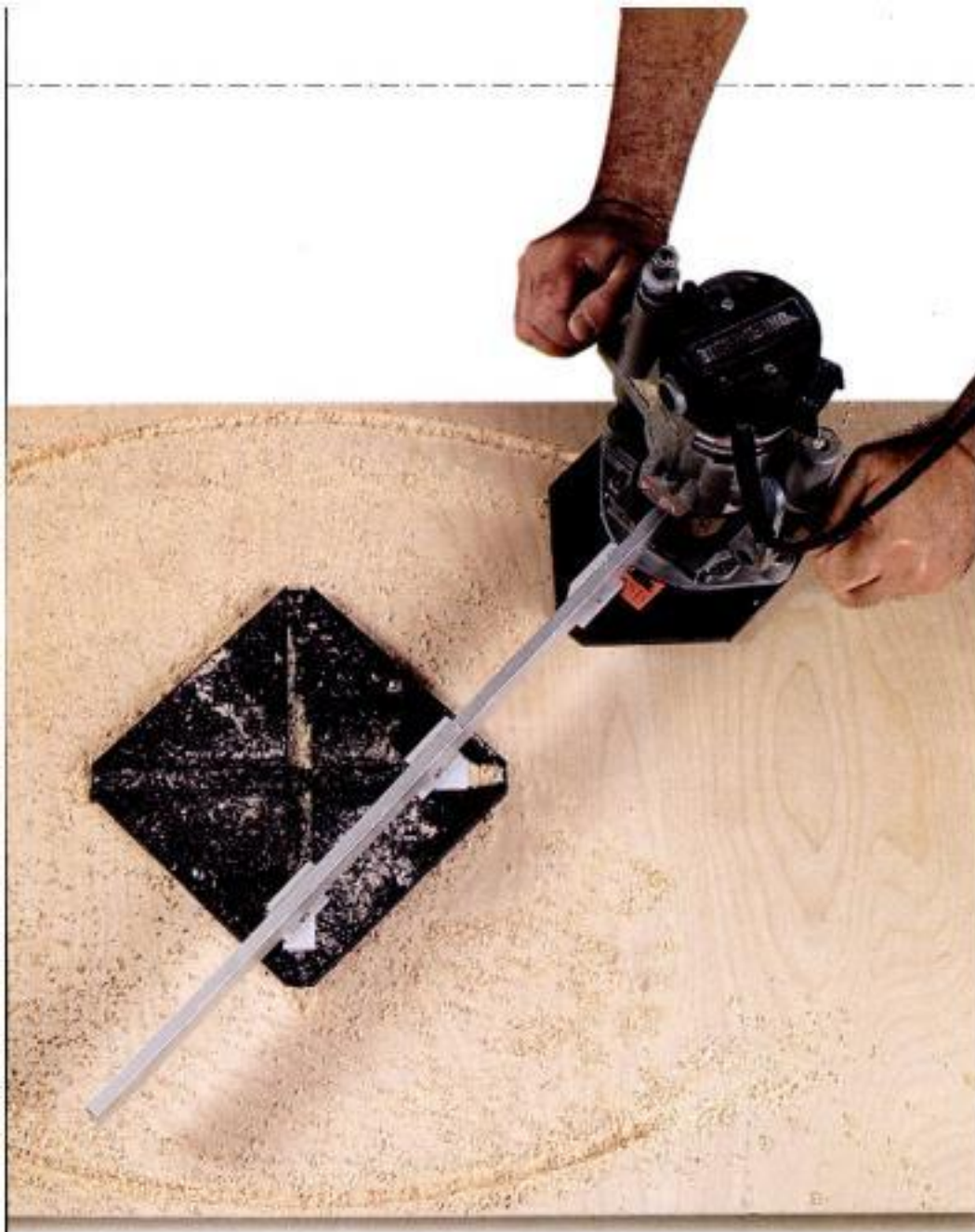
Ellipses are easy.

Cutting a curve with a continuously changing radius sounds impossible, but this jig makes it easy. You can rout ovals from 13½ in. by 17½ in. to 25 in. by 29 in. (Oval jig #530K: \$80.99, Woodhaven, 800-344-6657) Circle #607

Masterful mortises.

Setting and maintaining mortise alignment is easy with Woodhaven's mortising jig. The jig's two fences mount on a Woodhaven baseplate, and can be adjusted to straddle workpieces of varying widths. (Mortising jig #502: \$36.99; baseplate #101: 17.99; Woodhaven, 800-344-6657) Circle #607

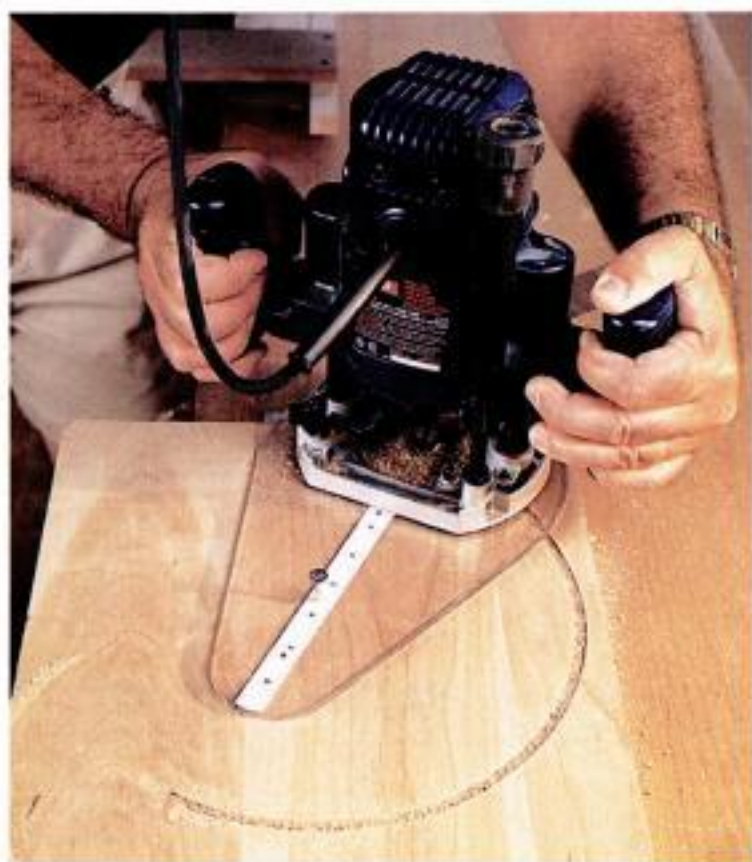




Not just for decoration. A butterfly key is attractive and functional; all your router needs to cut this and other inlays are a template and an inlay kit. (Router inlay set #9177: \$21.95; plastic butterfly template #5421: \$9.95; MLCS, 800-533-9298) Circle #605



Cutting straight and true. The most basic router operation is cutting a groove or dado. A self-clamping, self-aligning straightedge—available in 24-in., 36-in. and 48-in. lengths—makes this work a snap. (True-Grip Clamp & Tool Guide: \$25 to \$35 depending on length. Available from common mail order catalogs) Circle #608



Pick your radius. Mount your router on this handy jig and you'll be able to rout circles with diameters from 6 in. to 17 in. (Adjustable Circle Cutter Jig #400-1201: \$25.99, Eagle America, 800-872-2511) Circle #609



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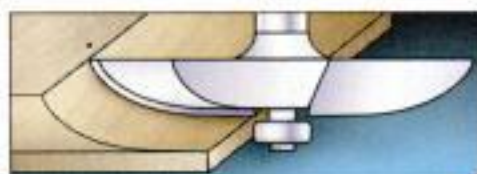
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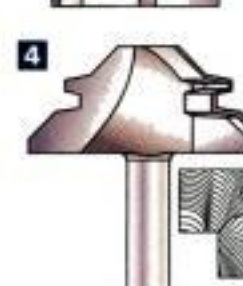
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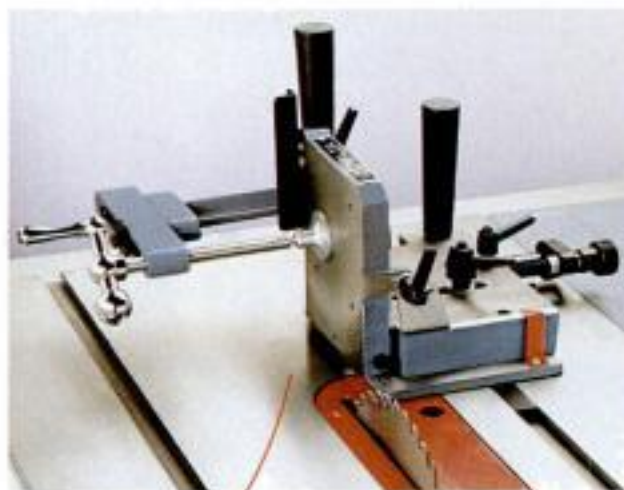


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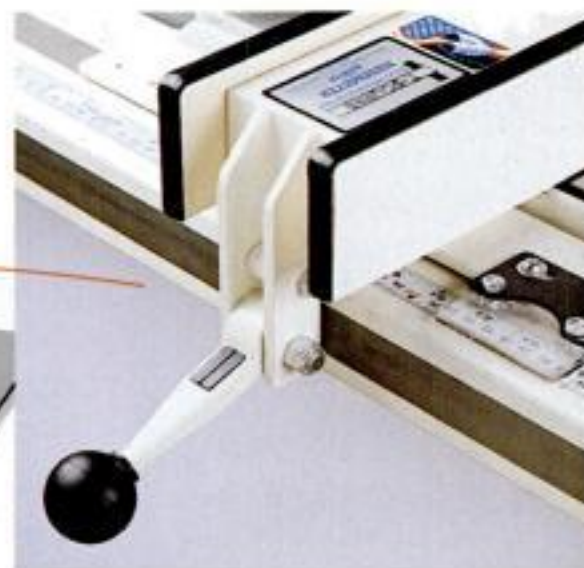
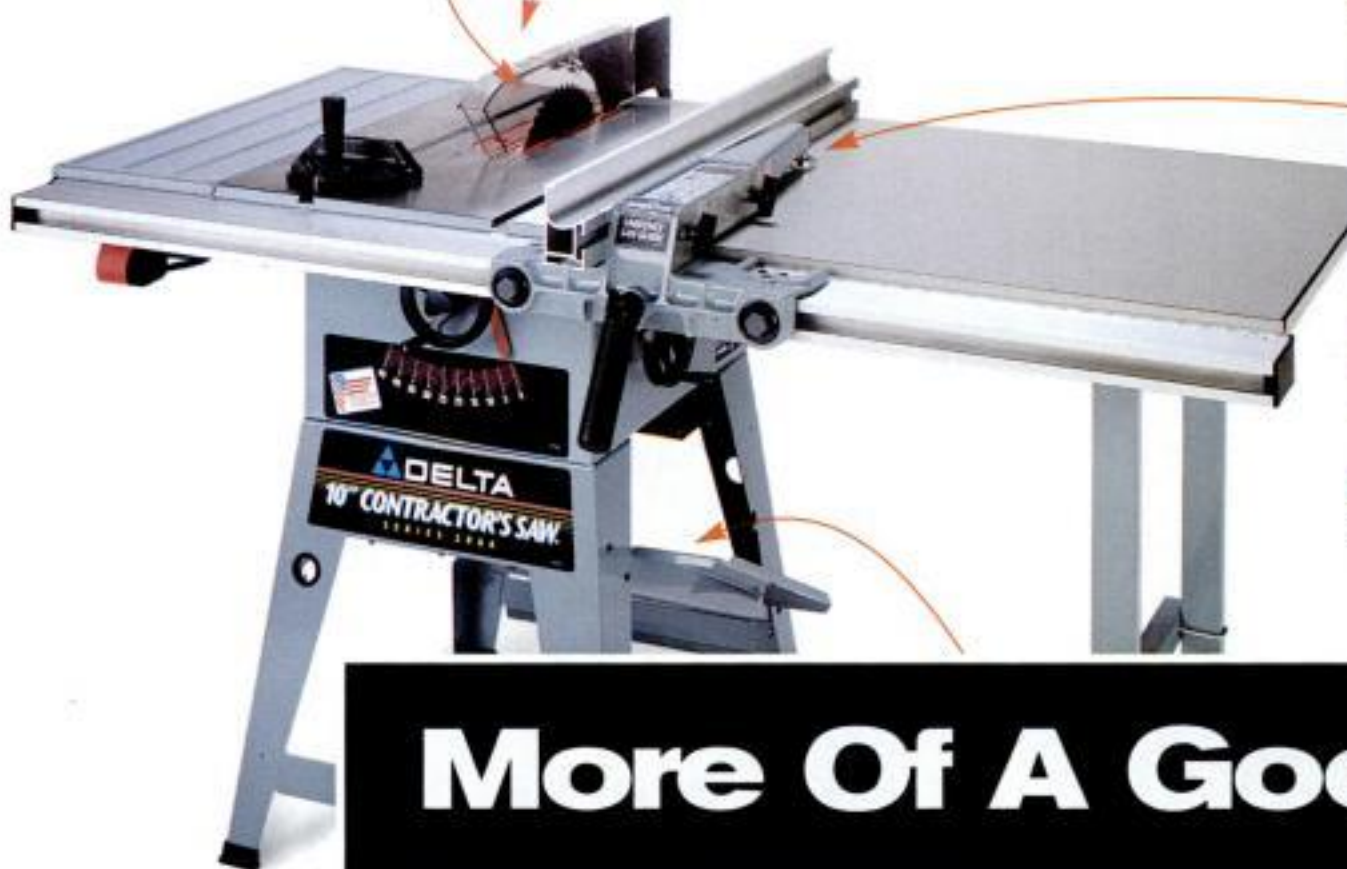
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CIRCLE NO. 19 ON PRODUCT INFORMATION FORM

Air Compressors

An air compressor can expand your capabilities when you couple it with a few pneumatic tools. There's a wide range of air-driven tools—from routers and nail guns to sanders, spray-finishing equipment, and venturi vacuum pumps.

Compressors range from compact 3/4-HP units to 20-HP industrial behemoths. A 3/4- or 1-HP unit has enough power for touch-up finish spraying or light-duty nailing. But sanders, drills, routers, and continuous spraying require at least 3 HP; a 5-HP unit is better.

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

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

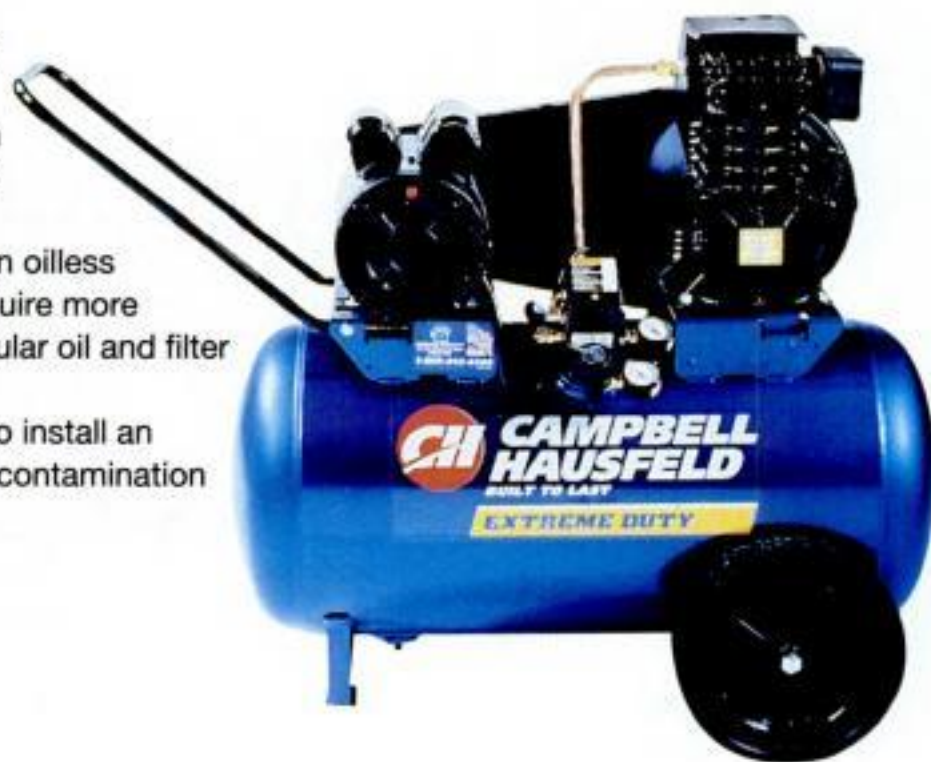
2 Types of air compressors

Oil Lubricated

Thanks to the crankcase oil that lubricates the compressor pistons, oil-lubricated models generally last much longer than oilless models before requiring a pump rebuild.

These models are quieter than oilless compressors, too. But they require more routine maintenance, since regular oil and filter changes are necessary.

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



Features to consider

Power

The true measure of an air compressor's power is not horsepower, but cfm (cubic ft. per minute), the volume of air that can be delivered at a stated pressure—usually 90 psi (lb. 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. Spray guns need 6 or 7 cfm at 90 psi. Sanders, drills, and routers use from 7 to 25 cfm. Keep in mind that most small compressors can't run continuously. Buy a more powerful model for tools that run for a half-hour or more.

Tank Size

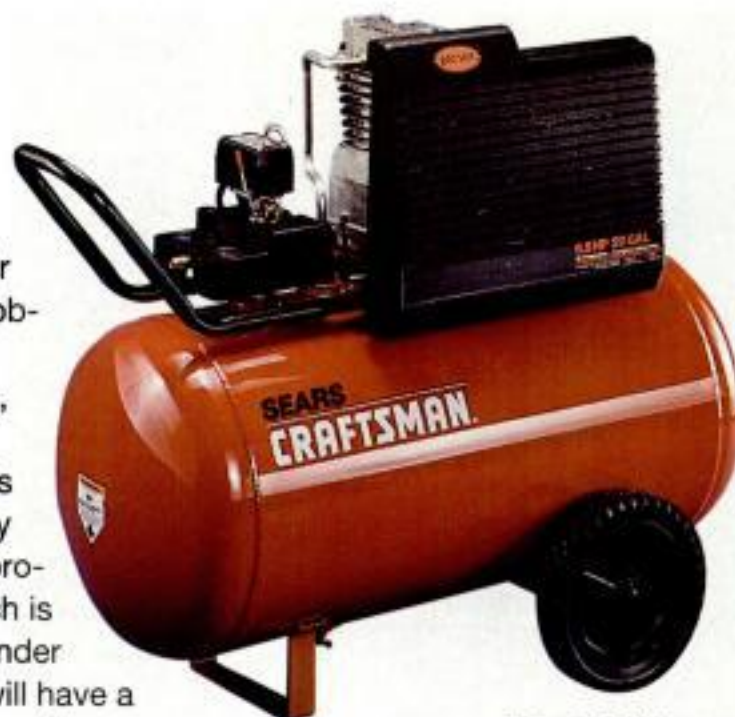
Compressor tank sizes are rated in gallons. The larger the tank, the less often the motor has to run to maintain air pressure. Reducing run cycles reduces wear on the pump.

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



Portability

If you plan to transport your air compressor to job-sites or move it around the shop, make sure it either 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 take to the jobsite.

Motor Voltage

A 230V motor operates more efficiently than one running on 115V. If your compressor use will be limited to your shop, consider a 230V model. If you want to use your compressor at a jobsite, you'll want to be able to plug into a 115V circuit. Some models will adapt to either 115 or 230V. ([See chart, page 34.](#))

Oilless

These compressors have a low-friction coating on their moving parts. The coating eliminates the need for lubricating oil (hence oil and filter changes).

When you use spray equipment with an oilless compressor, there's no danger of contaminating finishes with ambient oil in the air line. But oilless compressors are much noisier than oiled versions.

Oilless units generally cost less than their oil-lubricated counterparts, but oilless 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 tools require regulated air flow, but not all compressors have an air regulator.

In-line filters. This is essential if you're planning on spraying finishes with an oil-lubricated model. An in-line water filter and an in-line oil filter 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. This inexpensive device will allow you to blow dust off your work and out of your tools at the pull of a trigger.

Air Compressors



Campbell-Hausfeld MT4114



Thomas T-30ST



DeVilbiss PF22X4



Makita MAC2200

Brand & Model	List Price	Motor HP	Wheels	Tank Cpy. (gal.)	Max Air Pressure (psi)	Cfm@90 psi	Volts	Amps	Weight (lb.)	Comments & Features
Thomas Industries T-617HD	\$329	1/2	N	2	125	1	115	4.2	29	
Campbell Hausfeld MT4110	119	3/4	N	—	100	1.2	115	8	21	Tankless; 25-ft. air hose.
DeVilbiss FA752	149	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	
Campbell Hausfeld MT4114	129	1	N	—	100	1.5	115	10	22	Tankless; 25-ft. air hose.
Campbell Hausfeld MT6007	179	1	N	3	100	1.5	115	10	62	Portable tank.
Campbell Hausfeld WL5100	199	1	N	3	125	2	115	10	51	Hot dog tank.
Coleman Powermate Contractor CP0100310	187	1	N	2.5	125	2.7	115	10.8	50	Hot dog tank.
Coleman Powermate CP0100810	194	1	Y	7.5	120	2.7	115	15	72	
DeVilbiss IRFA100	99	1	N	—	125	2.1	115	10	14	Handheld; tankless.
Porter-Cable Jetstream CF1400	348	1	N	4	125	2.7	115	15	29	Pancake tank; regulator, fittings incl.
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	5-yr. electrical warranty.
Thomas Industries T-30ST	479	1 1/4	N	4	125	2.9	115	12	58	5-yr. electrical warranty.
Thomas Industries T-30WT	479	1 1/4	N	4	125	2.9	115	12	60	5-yr. electrical warranty.
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 ASNL75-15	340	1 1/2	N	1.5	116	3.6 @ 100	115	15	30	
Airstream C202-15	299	1 1/2	Y	2	120	3.9 @ 100	115	15	35	
Campbell Hausfeld WL5041	279	1 1/2	N	4	125	3.1	115	13	62	Twin-stack tanks.
Campbell Hausfeld WL5043	279	1 1/2	N	4	125	3.1	115	13	60	Pancake tank.
Campbell Hausfeld WL5101	259	1 1/2	N	3	125	3.1	115	13	51	Hot dog tank.
Coleman Powermate Contractor CN0150410	232	1 1/2	N	4	125	4	115	14.7	64	Pancake tank.
DeVilbiss SDSC150E3D	229	1 1/2	N	3	125	3	115	15	53	Hot dog tank.
Makita MAC1000	645	1 1/2	N	3.5	120	4	115	14.2	61	Regulator, fittings incl.
Makita MAC3000	1,134	1 1/2	N	8	120	5.4	115	14.2	130	Regulator, fittings incl.
Makita MAC500	299	1 1/2	N	3	125	2.9	115	14.2	25	
Porter-Cable Jetstream CF1540	538	1 1/2	N	4	125	3.3	115	15	58	Twin-stack tanks; regulator, fittings incl.
Airstream ASNL75-4V	475	2	N	4	116	3.6 @ 100	115	15	47	
Campbell Hausfeld WL5058	299	2	N	4	125	4.3	115	13	72	Twin-stack tanks.
Campbell Hausfeld WL5059	299	2	N	4	125	4.3	115	13	81	Pancake tank.
Coleman Powermate Contractor CS0170410	265	2	N	4	125	4.2	115	14	61	Twin-stack tanks.
Craftsman 919-15234	100	2	N	—	125	2.6	115	15	14	Handheld.
Craftsman 919-16212	200	2	Y	12	125	2.6	115	15	65	
Craftsman 919-16355	240	2	N	4	125	3	115	15	53	Four feet for stability.
Craftsman 919-16445	280	2	N	4	125	3	115	15	70	Twin tanks.
DeVilbiss PF22X4	249	2	N	4	125	5.3	115	15	60	Pancake tank.
DeVilbiss HFAC28	169	2	Y	8	125	2.5	115	15	50	
DeVilbiss SDSC2E4STD	279	2	N	4	120	3.2	115	15	63	Twin-stack tanks.
Makita MAC1200	645	2	N	4	125	6.1	115	14.2	61	
Makita MAC2000	754	2	N	4	120	6.1	115	14.2	59	Regulator, fittings incl.

OILLESS

KEY: Y = yes, N = no, — = not applicable. *175 is standard rating for two-stage air compressors.
New models in red. ● = Tested model: recommended. (See page 4.)

Continued on page 36.

See page 152
for listing of manufacturers.

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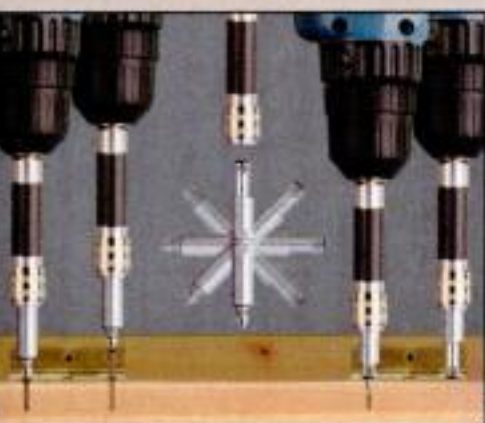
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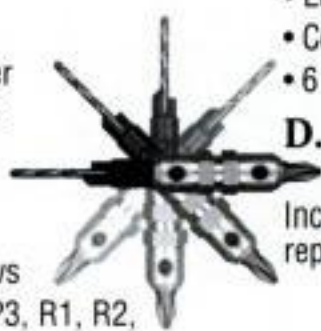


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 - Compact Version Screw Guide (with P1)
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D. William Alden Mechanical Lead Carpenters Pencil

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CIRCLE NO. 102 ON PRODUCT INFORMATION FORM

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Air Compressors



Porter-Cable Jetstream CF2400



Craftsman 919-16523



DeVilbiss IRFTV660V



Air-Mate AM79-HC4V

See page 152
for listing of manufacturers.

Brand & Model	List Price	Motor HP	Wheels	Tank Cpy. (gal.)	Max Air Pressure (psi)	Cfm@90 psi	Volts	Amps	Weight (lb.)	Comments & Features
Makita MAC2200	\$754	2	N	4	125	6.1	115	14.2	59	
Porter-Cable Jetstream CF2400	578	2	N	4	125	6.1	115	15	67	Twin-stack tanks; regulator, fittings incl.
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	5-yr. electrical warranty.
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	5-yr. electrical warranty.
Coleman Powermate CP0351110	199	3	Y	11	120	6.5	115	15	103	
Makita MAC4000	1,334	3	N	5	120	9.5	230	11.5	82	Regulator, fittings incl.
Campbell Hausfeld WL6040	219	4	Y	13	125	5.1	115	15	97	
Coleman Powermate CP0402010	232	4	Y	20	120	6.4	115	15	126	
Craftsman 919-16418	260	4	Y	18	125	6.2	115	15	110	
Campbell Hausfeld VS6231	349	4½	Y	20	125	5.6	115	15	134	
Campbell Hausfeld WL6030	319	5	N	30	125	5.5	115	15	121	Vertical tank.
Campbell Hausfeld WL6052	299	5	Y	26	125	5.5	115	15	123	
Campbell Hausfeld WL6100	269	5	Y	20	125	5.5	115	15	111	
Campbell Hausfeld WL6111	319	5	Y	26	125	5.5	115	15	121	Vertical tank.
Coleman Powermate CL0502710	282	5	Y	27	120	6.5	115	15	113	Vertical tank.
Coleman Powermate CP0502010	240	5	Y	20	120	6.5	115	15	129	
Coleman Powermate CP0504410	298	5	Y	44	120	6.5	115	15	151	Vertical tank.
DeVilbiss F5030V	349	5	N	30	125	5.8	115/230	15/7.5	143	Vertical ASME tank.
DeVilbiss PRF5020VP	299	5	Y	20	125	5.8	115	15	120	Vertical tank.
Craftsman 919-16523	300	5½	Y	25	130	6.8	115	15	150	Vertical tank.
Craftsman 919-16531	300	5½	Y	30	130	6.8	115	15	134	
DeVilbiss IRFTV660V	369	6	N	60	125	9.8	230	15	230	Twin cylinder.
Craftsman 919-16533	400	6½	Y	33	130	9.9	230	15	159	V-cylinder pump design.
Craftsman 919-16560	430	6½	N	60	130	9.9	230	15	220	
Air-Mate AM39-HC4V	492	¾	N	4	125	2.6	115	11	57	Auto start/stop.
Emglo Master Series M40-HC4V	522	¾	N	4	125	2.6	115	11	57	Regulator, fittings incl.
Air-Mate AM78-HC4V	542	1½	N	4	125	4.1	115	15.5	60	Auto start/stop.
Air-Mate AM79-HC4V	572	1½	N	4	125	4.2 @ 100	115	15.5	60	Direct drive.
Emglo K15A-30V	903	1½	N	30	150	6.5	115/230	15.5/7.8	205	Auto start/stop.
Emglo K15A-8P	799	1½	Y	8	150	6.5 @ 100	115/230	16/7.8	175	Constant speed control; cast-iron pump.
Emglo Master Series MK15A-88	939	1½	Y	8	150	6.5 @ 100	115/230	15.4/7.8	185	Regulator; fittings incl.
Emglo Master Series M79-HC4V	572	1½	N	4	125	4.1	115	15.5	60	Regulator; fittings incl.
Jet DHC15T4N	493	1½	N	4	125	4.3	115	14	47	Direct drive.
Jet EPC15T8	829	1½	Y	8	125	5.9	115/230	15/7.5	110	Belt drive.
Jet EPC15T17	891	1½	Y	17	125	5.9	115/230	15/7.5	126	Belt drive.

OILLESS

OIL LUBRICATED

KEY: Y = yes. N = no. — = not applicable. *175 is standard rating for two-stage air compressors.
New models in red. ● = Tested model; recommended. (See page 4.)

Continued on page 38.

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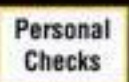
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Air Compressors



Campbell Hausfeld VT6131



Coleman Powermate IV5038023



DeVilbiss PRL5020



Campbell Hausfeld VT6275

See page 152
for listing of manufacturers.

Brand & Model	List Price	Motor HP	Wheels	Tank Cpy. (gal.)	Max Air Pressure (psi)	Cfm@90 psi	Volts	Amps	Weight (lb.)	Comments & Features
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; single-stage pump.
Quincy A15CTEC	979	1½	Y	8	125	6.2	115/230	15	155	Dual control; single-stage pump.
Air-Mate AM99-HC4V	636	2	N	4	125	5.6 @ 100	115	19	69	Runs on 25-amp breaker.
Airstream AS75-4V	510	2	N	4	125	3.6 @ 100	115	15	53	
Campbell Hausfeld FP2000	319	2	N	4	125	4.2	115	13	62	Twin-stack tanks.
Campbell Hausfeld VT6131	499	2	Y	8	125	4.5	115/230	15	175	Wheelbarrow tank; cast-iron pump.
Coleman Powermate Contractor CT0200813	429	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 wheelbarrow tanks.
Emglo K2A-8P	879	2	Y	8	150	8.4	115/230	19.8/9.9	190	Constant speed control.
Emglo Master Series MK2A-88	1,019	2	Y	8	150	8.4 @ 100	115/230	19.8/9.9	195	Regulator, fittings incl.
Emglo Portable K2A-88	879	2	Y	8	150	8.4 @ 100	115/230	19.8/9.9	180	Constant speed control.
Thomas Industries T-150	599	2	Y	7	125	5.3	115	12.5	100	
Coleman Powermate CP0302013	304	3	Y	20	120	6.5	115/230	15	154	
Emglo G3A-8P	1,349	3	Y	8	150	13.8 @ 100	230	13.5	240	Cast-iron pump.
Emglo GC3E-30V	1,482	3	N	30	150	14.2	230	13.5	288	Cast-iron pump.
Emglo Master Series MG3A-88	1,524	3	Y	8	150	13.8 @ 100	230	13.5	250	Regulator, fittings incl.
Quincy Air Master 131A20PN3	596	3	Y	20	120	6.7	115	15	150	Single-stage pump.
Quincy Air Master 131A30VC3	755	3	N	30	120	6.7	115	15	260	Single-stage pump.
Campbell Hausfeld VS5001	319	4	Y	13	125	5.5	115	15	116	
Campbell Hausfeld VT6196	339	4	Y	20	125	5.6	115/230	15	156	Cast-iron pump.
Campbell Hausfeld VT6231	399	4½	Y	20	125	5.7	115/230	15	156	Cast-iron pump.
Campbell Hausfeld VT6233	419	4½	Y	26	125	5.7	115/230	15	175	Cast-iron pump.
Coleman Powermate CP0452513	337	4½	Y	25	120	6.2	115/230	15	168	
Campbell Hausfeld VS5006	359	5	Y	20	125	5.7	115	15	131	
Campbell Hausfeld VS5007	379	5	Y	30	125	5.7	115	15	215	
Campbell Hausfeld VT5587	429	5	N	60	125	9.4	230	15	290	Vertical tank; cast-iron pump.
Campbell Hausfeld VT6182	399	5	Y	20	125	9.4	230	15	156	Cast-iron pump.
Campbell Hausfeld VT6290	399	5	Y	20	125	5.8	115	15	159	Cast-iron pump.
Coleman Powermate CL0502713	353	5	Y	27	120	6.5	115/230	15	143	Vertical tank.
Coleman Powermate CL5006016	387	5	N	60	120	11.1	208/230	15	240	Vertical tank.
Coleman Powermate CP0502013	326	5	Y	20	120	11.5	115	15	163	
Coleman Powermate IV5038023	1,008	5	N	80	175	16 @ 175*	230	22	610	Cast-iron pump.
Craftsman 919-18643	380	5	Y	20	125	6.8	115/230	15/7.5	136	
DeVilbiss PRL5020	359	5	Y	20	125	6.7	115/230	15/7.5	135	
Emglo GT5B-60V	1,962	5	N	60	175	17 @ 125	230	23	400	2-stage pump.

OIL LUBRICATED

KEY: Y = yes. N = no. — = not applicable. *175 is standard rating for two-stage air compressors.
New models in red. ● = Tested model: recommended. (See page 4.)

Continued on page 40.

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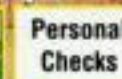


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Air Compressors



Coleman Powermate CP6502516



Craftsman 919-18426



DeVilbiss LM7580V2C

Brand & Model	List Price	Motor HP	Wheels	Tank Cpy. (gal.)	Max Air Pressure (psi)	Cfm@90 psi	Volts	Amps	Weight (lb.)	Comments & Features
Emglo W5B-80	\$2,420	5	Y	80	175	19	230	23	610	Low rpm for long life.
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 opt.; vertical tank.
Quincy 151C20PN3	639	5	Y	20	120	9.6	230	15	130	Single-stage pump.
Quincy 151C30VC3	768	5	N	30	120	9.6	230	15	170	Single-stage pump.
Quincy 151C60VC3	792	5	N	60	120	9.6	230	15	260	Single-stage pump.
Quincy 241C60VC	1,853	5	N	60	175	16.3 @ 175*	230	22	495	2-stage pump.
Quincy 251C80VC	2,154	5	N	80	175	17.2 @ 175*	230	26	575	2-stage pump.
Quincy 351C120VC	2,451	5	N	120	175	17.2 @ 175*	230	26	750	2-stage pump.
Campbell Hausfeld VT6235	429	5½	Y	26	125	9.4	230	15	175	Cast-iron pump.
Campbell Hausfeld VT6195	449	6	N	60	125	10.2	230	15	290	Vertical tank; cast-iron pump.
Coleman Powermate CL6006016	398	6	N	60	120	11.4	208/230	15	243	Vertical tank.
Campbell Hausfeld VT6275	479	6½	Y	60	125	10.3	230	15	292	Vertical tank; cast-iron pump.
Coleman Powermate CL6506016	409	6½	N	60	120	11.5	208/230	15	245	Vertical tank.
Coleman Powermate CP6502516	365	6½	Y	25	120	11.6	208/230	15	179	
Coleman Powermate CV6548049	769	6½	N	80	175	13.2 @ 175*	208/230	22	405	Aluminum pump w/ cast-iron cylinder.
Craftsman 919-18426	500	6½	N	60	125	9.5	230	20	275	
Craftsman 919-18695	400	6½	Y	20	125	9.7	230	20	142	Cast-iron cylinder sleeves.
DeVilbiss L6560V	479	6½	N	60	125	9.4	230	15	240	Vertical tank.
DeVilbiss LK6580V2	999	6½	N	80	175	16.9 @ 175*	230	30	442	Vertical tank; 2-stage pump.
Coleman Powermate CV7548060	1,151	7½	N	80	175	22.6 @ 175*	230	29	505	Aluminum pump w/ cast-iron cylinder.
Coleman Powermate IV7518023	1,301	7½	N	80	175	18 @ 175*	230	32	710	Cast-iron pump.
DeVilbiss LM7580V2C	1,599	7½	N	80	175	23 @ 175*	230	30	493	2-stage, cast-iron pump.
Lobo AC-7580	1,499	7½	N	80	175	22	230	15-21	400	Vertical tank, cast-iron pump.
Quincy 271C80VC	3,203	7½	N	80	175	22.6 @ 175*	230	40	665	2-stage pump.
Quincy 371C80VC	2,580	7½	N	80	175	22.6 @ 175*	230	40	590	2-stage pump.

KEY: Y = yes. N = no. — = not applicable. *175 is standard rating for two-stage air compressors. **New models in red.**
 ● = Tested model: recommended. (See page 4.)

See page 152
for listing of manufacturers.

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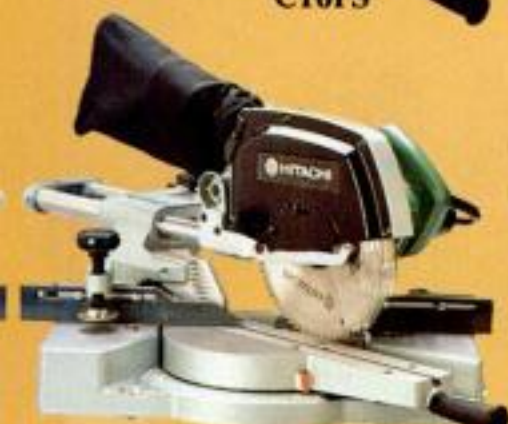
1-760-389 C10FS & SS2875 Kit Package\$848.99

760-389 C10FS (only)679.99

914-226 SS2875 (only)289.99



SS2875



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Buy the top selling 8-1/2" Slide Compound Saw and the top selling Contractor Grade Miter Saw Stand together and **SAVE OVER \$100!** This package has a retail value of over \$739. **HURRY!** Price is limited to supplies on hand! **ORDER TODAY!**

1-744-862 C8FB2 & SS2875 Kit Package\$638.99

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914-226 SS2875 (only)289.99



SS2875



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1-785-485 M12V & RM3350R Kit Package\$398.99

785-485 M12V (only)179.99

914-457 RM3350R (only)319.99



RM3350R



C10RAS

Buy the top selling C10RAS 10" Portable Benchtop Saw and the top selling PM2700XL Contractor Grade Benchtop Saw Stand together and **SAVE OVER \$100!** This package has a retail value of over \$592. **HURRY!** This price is limited to supplies on hand! **ORDER TODAY!**

1-872-853 C10RAS & PM2700XL Kit Package\$489.99

872-853 C10RAS (only)299.99

914-424 PM2700XL (only)292.99



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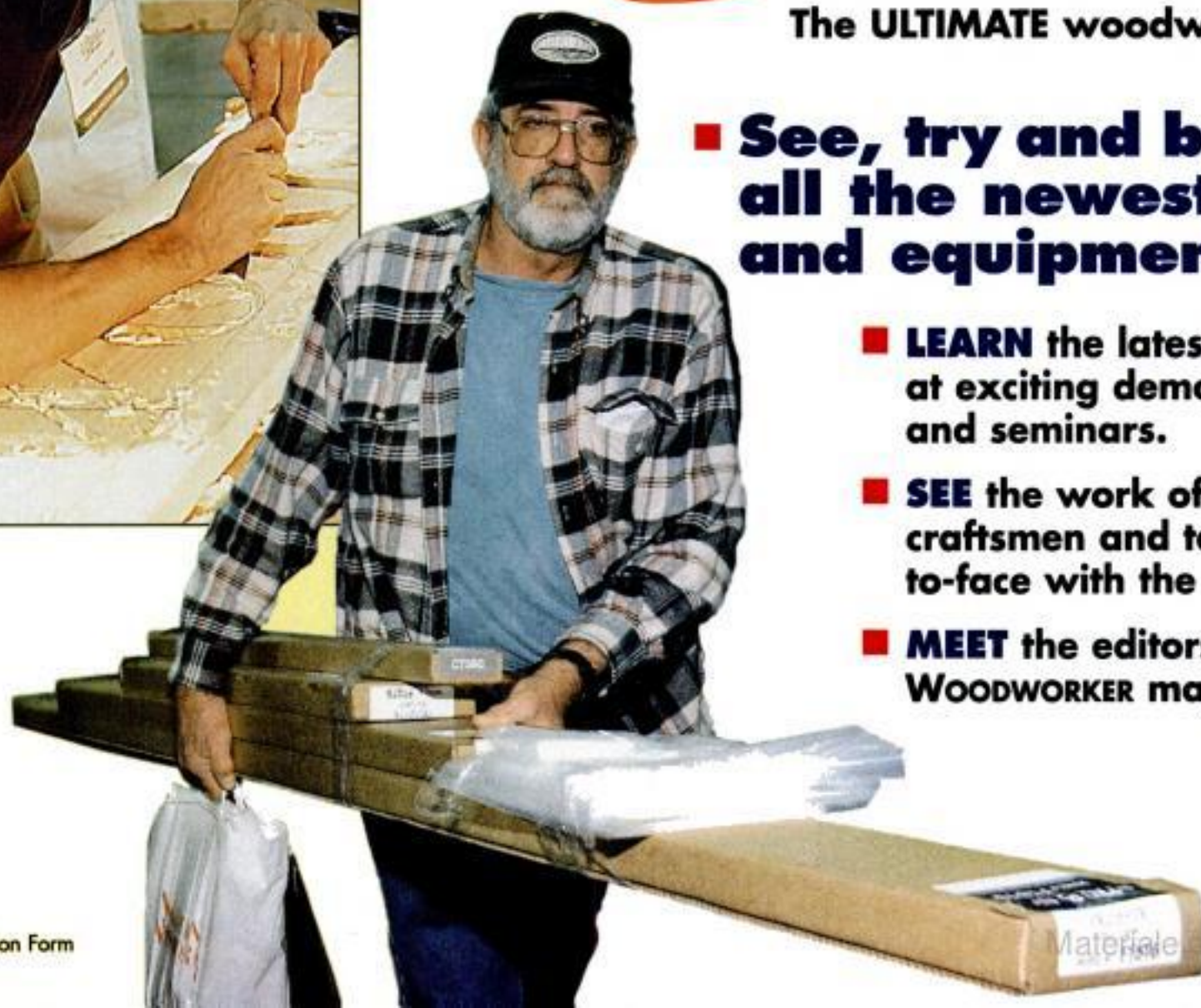
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1998-99 SEMINAR LINE-UP

ROUTER BASICS

Friday 8:30-10:30 am
Saturday 8:30-10:30 am

BILL HYLTON

In this seminar, you'll learn how to:

Select the right router and accessories for your needs • Use a router safely and effectively • Profile edges and make moldings • Cut basic woodworking joints like dados, rabbets, and simple mortises and tenons • Make time-saving router jigs • Use a trammel to cut arcs and circles • Rout with pattern bits

Who should attend: Beginning to intermediate woodworkers.

About the presenter: Bill Hylton is a long-time woodworker and woodworking writer. He is the author of *Woodworking with the Router* and *Router Magic*, as well as the recently published *Rodale's Illustrated Cabinetmaking*.

ADVANCED ROUTER WORK

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

BILL HYLTON

In this seminar, you'll learn how to:

Make complex moldings • Choose and equip a router table • Joint and surface difficult woods with the router • Cut advanced router joints—cope-and-stick, lock-miters, and finger joints • Make professional-quality router jigs and fixtures • Perform template-guided router operations

Who should attend: Intermediate woodworkers.

MAKE THE MOST OF YOUR TABLESAW

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

IAN KIRBY

In this seminar, you'll learn how to:

Rip, crosscut and shape solid wood • Cut manufactured sheet goods • Select the right blade for the job • Use blade guards, splitters and push sticks • Make jigs for shaping and joint-making • Operate your saw safely and properly

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. He is a frequent contributor to *AMERICAN WOODWORKER* magazine.

DESIGN AND BUILD A WORKBENCH

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

FRANK KLAUSZ

In this seminar, you'll learn how to:

Understand what makes a good bench • Design the bench that's best for you • Choose the right materials and construction methods • Select and install vises and work-holding features

Who should attend: All woodworkers.

About the presenter: Frank Klausz is a professional cabinetmaker who learned his craft in his native Hungary. He lectures and gives seminars throughout the U.S. and Canada and is a contributing editor to *AMERICAN WOODWORKER* magazine.

FINISHING SECRETS

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

MICHAEL DRESDNER

In this seminar, you'll learn how to:

Select the best finish for the job • Understand wood stains and use them correctly • Apply finishes for the best results • Get a professional-looking finish on your project—from surface preparation to final polish

Who should attend: All woodworkers.

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

WOODWORKING FUNDAMENTALS

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

FRANK KLAUSZ

In this seminar, you'll learn how to:

Select and understand tools, machines and materials • Choose projects and joinery you can handle • Allow for wood movement • Use glue and clamps effectively • Apply great-looking finishes

Who should attend: Beginner to intermediate woodworkers.

DESIGN AND BUILD GREAT FURNITURE

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

IAN KIRBY

In this seminar, you'll learn how to:

Develop problem-solving strategies • Recognize the elements of good design—form, function, and economics • Design joints and details • Make the best use of materials—solid wood and sheet goods

Who should attend: All woodworkers.

JIGS AND FIXTURES

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

SANDOR NAGYSZALANCZY

In this seminar, you'll learn how to:

Design and build jigs and fixtures for many woodworking operations • Understand jig-making principles • Incorporate safety features and dust collection • Choose appropriate hardware and materials

Who should attend: All woodworkers.

About the presenter: Sandor Nagyszalanczy is a furniture designer and the author of four books, with 18 years of woodworking experience and six years as an editor of *Fine Woodworking* magazine. He is currently a contributing editor to *AMERICAN WOODWORKER* magazine.

SCROLLSAW SAVVY

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

STEVE VORNDRA

In this seminar, you'll learn how to:

Select the right machine and blades • Master proper cutting techniques • Make right-angle cuts • Craft puzzles, shadowboxes and 3-D animals • Cut parts for marquetry and intarsia

Who should attend: All scrollsaw enthusiasts.

About the presenter: Steve Vorndran is a veteran scrollsaw instructor who has lectured extensively across the country. He is the author of several articles on scrollsawing techniques.

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2. Limit one entry per person. All entries must be deposited or postmarked by the Sweepstakes ending date of March 19, 1999. Mailed entries must be received no later than March 19, 1999. 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 31, 1999. 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 1999 Dodge Dakota Sport truck with an estimated MSRP value based on 1998 pricing of \$21,150 (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 31, 1999, are 18 years or older. Winners must reside in the United States at time of prize delivery. Employees (and member of their immediate families) of Rodale Press, Inc., the Chrysler Corporation, their subsidiaries and dealer 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 or 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, 1999, 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, 1999, will not be honored.

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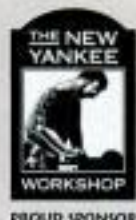
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Air Nailers

Whether you're fastening a cabinet back, attaching moldings, or cobbling together a jig, nothing speeds assembly like an air nailer. Squeeze its trigger and an air-powered nailer will sink a brad or finish nail, and even set its head below the wood's surface. The nails these guns use tear their way through wood, so they won't split it. Perhaps best of all, an air nailer won't knock carefully positioned parts out of alignment the way hammer blows will.

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.



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

2 Types of air nailers

Brad

Brad nailers shoot 18-gauge finish nails called brads. Brads are generally used with thin materials, such as cabinet backs or small moldings, and are less likely than finish nails to split wood. A brad nailer has a smaller nose than a finish nailer, so it fits more easily into tight spaces and complex molding profiles. Brad 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 48.](#))



Features to Consider

Weight

Weight isn't a problem with brad guns, but finish nailers over 5 lb. 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

On most guns, a retractable nosepiece must be pressed against the workpiece before a trigger squeeze fires a nail. A few guns have double triggers instead, both of which must be pulled to fire the gun.

Bump Firing

Useful for production work, this feature allows you to 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

To prevent their noses from marring the wood, some guns have a rubber nose tip. (See photo, below right.) Though rubber tips aren't available for some models, they're standard or optional for others.

Quick-Release Nosepiece

Look for a quick-release nosepiece for fast removal of occasional jammed nails. (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 jammed nails.



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

Finish

Finish nails, at 15 to 16 gauge, are thicker, longer, and stronger than brads; consequently, the guns for them are bigger and heavier than brad nailers. Typically, these guns take nails ranging from 1 in. to 2½ in. long. (See chart.) Finish nails are well suited to fastening parts like cabinet carcasses and crown moldings, and will penetrate dense hardwoods without crumpling (which brads sometimes do in dense woods). Because the longest nails will extend through drywall into wall studs, finish nailers are often used to install architectural trim such as window and door casings.



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



Accuset A200BN



Campbell Hausfeld NB003099



Craftsman 18402



Makita AF502

BRAD NAILERS = 18 GAUGE

Brand & Model	List Price	Nail Length (in.)	Magazine Type & Material	Safety System	Bump Firing	Rubber Nose Tip	Quick-Release Nose-Piece	Drive Depth Adj.	Recomm. Air Pressure (psi)	Weight (lb.)	Comments & Features
Accuset A125BN	\$120	5/8 - 1 1/4	S/ST	DT	N	Y	Y	N	70 - 100	2.3	
Accuset A200BN	140	5/8 - 2	S/ST	DT	N	Y	Y	Y	70 - 100	3.4	
Airy 0232SP	69	3/8 - 1 1/4	S/AL	2	N	N	N	Y	80 - 100	2.6	Case incl.; soft-grip handle.
Airy 0241SRNK	99	3/8 - 1 9/16	S/P	2	N	N	N	Y	80 - 100	2.7	Case with nails incl.
Airy 0249SRNK	109	5/8 - 2	S/AL	2	N	N	N	Y	80 - 100	3	Case incl.
Airy EZ-2	119	5/8 - 1 1/4	S/AL	2	N	N	N	Y	80 - 100	3.5	Also shoots narrow crown staples.
Campbell Hausfeld NB003099	99	3/8 - 1 1/4	S/AL	DT	N	N	N	N	50 - 100	2.6	Case with nails incl.; wrenches.
Campbell Hausfeld NB004099	129	5/8 - 2	S/AL	DT	Y	N	Y	N	50-100	2.8	Case with nails incl.; wrenches.
Craftsman 18402	80	5/8 - 1 1/4	S/AL	DT	Y	N	Y	N	60 - 100	1.5	Oilless; rubber grip.
Craftsman 18409	99	3/8 - 1 1/4	S/AL	DT	Y	N	N	N	60 - 100	2.2	Oilless; case available.
Craftsman 18424	149	5/8 - 2	S/AL	DT	Y	N	N	N	60 - 100	2.6	Rubber grip; case available.
DeVilbiss SHBN4	119	1/4 - 1 1/4	S/AL	DT	Y	N	N	N	65 - 100	2.7	
Duo-Fast DBN-4052	209	5/8 - 1 9/16	S/P	2	N	N	N	N	70 - 120	2	Compact.
Fasco F20PGN31	372	1/2 - 1 1/4	S/AL	DT	Y	N	Y	N	80 - 110	2.5	
Fasco F20TGN40	386	1/2 - 1 9/16	S/AL	DT	Y	N	Y	N	80 - 110	2.8	
Grizzly G1852	60	3/16 - 3/8	S/AL	DT	Y	N	N	N	90 - 100	2.6	
Grizzly G1861	70	9/16 - 5/8	S/AL	DT	Y	N	N	N	90 - 100	3.3	
Grizzly G6047	100	5/8 - 2	S	DT	Y	N	Y	N	70 - 110	3	
Haubold SKN-40V/12	442	3/4 - 1 9/16	S/AL	DT	Y	Y	Y	N	57 - 100	3.7	
Hitachi NT32AE	171	5/8 - 1 1/4	S/AL	DT	Y	N	N	N	70 - 120	2.6	360° directional exhaust; leather grip.
Hitachi NT50AD	552	1 - 2	S/AL	DT	N	Y	N	Y	70 - 120	2.5	360° directional exhaust; leather grip.
Hitachi NT50AE	257	3/4 - 2	S/AL	DT	Y	N	N	N	70 - 120	3.2	360° directional exhaust; leather grip.
ISM Ti-Pin 44	289	5/8 - 1 3/4	S/AL	DT	N	N	Y	Y	65 - 110	2.5	Oilless.
Jamco JTBN1832	99	5/8 - 1 1/4	S/AL	DT	Y	N	N	N	52 - 100	2.5	
Jamco JTBN1832A	119	5/8 - 1 1/4	S/AL	DT	Y	N	N	N	70 - 100	2	Directional exhaust.
Jamco JTBN1842A	149	5/8 - 1 5/8	S/AL	DT	Y	N	N	N	70 - 100	2.5	Directional exhaust.
Jamco JTBN1850A	159	5/8 - 2	S/AL	DT	Y	N	N	N	70 - 100	2.7	Directional exhaust.
Josef Kihlberg JK24-512	433	5/8 - 1 3/16	S/AL	DT	Y	N	N	N	58 - 87	2.4	
Makita AF502	469	5/8 - 2	S/AL	SL	Y	Y	N	Y	65 - 120	2.5	
Max NF201/18-35	190	3/8 - 1 3/8	S/P	DT	Y	Y	Y	Y	60 - 100	1.8	
Max NF211/18-50	525	1 - 2	S/AL	DT	N	Y	Y	Y	60 - 100	2.6	Directional exhaust.
Pasloide 2138-F18II	482	5/8 - 1 3/8	S/AL	DT	Y	N	Y	N	80 - 120	2.8	
Penn State PSI ANK-2	130	5/8 - 2	S/AL	DT	Y	N	N	N	60 - 110	3.7	Case with nails incl.; extra drive blade.
Penn State PSI ANK-SUP	110	3/8 - 1 9/16	S/P	DT	N	N	N	Y	55 - 100	2	Case with nails incl.; extra drive blade.
Porter-Cable BN125	158	5/8 - 1 1/4	S/AL	DT	Y	N	Y	N	70 - 120	2.3	Case incl.; soft-grip handle; wrenches.
Porter-Cable BN200	254	3/4 - 2	S/AL	DT	Y	N	Y	N	70 - 120	2.5	Case incl.; soft-grip handle; wrenches.
Senco LS1	310	1/2 - 1	S/AL	DT	N	N	Y	N	80 - 110	2.7	Easy to maneuver.
Senco SLP20	325	5/8 - 1 5/8	S/P	DT	N	N	Y	N	70 - 120	2.3	Oilless.
Spotnails CB1820	118	3/16 - 1 1/4	S/AL	DT	Y	N	N	N	85 - 100	2.6	
Spotnails DB1825	234	5/8 - 1	S/ST	DT	Y	N	N	N	85 - 100	3.1	
Spotnails GB1832	262	7/8 - 1 3/4	S/ST	DT	Y	N	N	N	85 - 100	3.3	
Stanley-Bostitch BT-35B	279	5/8 - 1 3/8	S/AL	2	N	N	Y	N	70 - 100	2.4	Anti-jam magazine.
Stanley-Bostitch BT-50B	335	1 3/16 - 2	S/AL	2	N	N	Y	N	70 - 100	2.6	Anti-jam magazine.
Woodtek 832364	96	5/8 - 1	S/P	2	Y	N	N	Y	80 - 100	3	Also shoots narrow crown staples.

KEY: Magazine Type: A = angled, S = straight.
Magazine Material: Al = aluminum, P = plastic, ST = steel. Safety System: 2 = 2 triggers, DT = depress tip, SL = safety lock, Y = yes, N = no. OPT = optional. — = not applicable.
New models in red. ● = Tested model; recommended. (See page 4.)

Continued on page 50.

See page 152
for listing of manufacturers.

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Air Nailers



Stanley-Bostitch BT-35B



Airy 0566TP



DeVilbiss FN7



Hitachi NT65AA

BRAD
NAILERS
= 18 GAUGE

FINISH NAILERS = 15 OR 16 GAUGE

Brand & Model	List Price	Nail Length (in.)	Magazine Type & Material	Safety System	Bump Firing	Rubber Nose Tip	Quick-Release Nose-Piece	Drive Depth Adj.	Recomm. Air Pressure (psi)	Weight (lb.)	Comments & Features
Woodtek 832371	\$120	5/8 - 1 1/2	S/P	2	Y	N	N	Y	80 - 100	2.3	
Woodtek 832378	147	3/4 - 2	S/ST	2	Y	N	N	Y	80 - 100	3.5	
Woodtek 882371	80	5/8 - 1 1/2	S/ST	2	Y	N	N	Y	80 - 100	2.3	Also shoots narrow crown staples.
Woodtek 914547	138	5/8 - 1 3/16	S/ST	2	Y	N	N	Y	55 - 95	3	Also shoots narrow crown staples.
Airy 0350NK	169	3/4 - 2	S/P	DT	Y	Y	N	Y	80 - 100	5	Case with nails incl.
Airy 0566TP	239	1 - 2 1/2	A/AL	DT	Y	Y	Y	N	80 - 100	7	Case incl.
Atro Monza Brad 64	375	1 1/4 - 2 1/2	A/AL	DT	N	Y	Y	Y	65 - 110	4.3	Oilless.
Campbell Hausfeld NB005099	199	3/4 - 2	S/AL	DT	Y	Y	Y	Y	70 - 110	4.8	Case with nails incl.; safety glasses.
Campbell Hausfeld NB356599	259	1 1/4 - 2 1/2	A/AL	DT	Y	Y	Y	Y	70 - 110	5.3	Case with nails incl.; safety glasses.
Craftsman 18431	179	3/4 - 2 1/2	S/AL	DT/SL	Y	Y	Y	Y	70 - 110	4.1	
Craftsman 18432	279	1 1/2 - 2 1/2	A/AL	DT/SL	Y	Y	Y	Y	70 - 110	5	Rubber grip.
DeVilbiss AFN5	280	1 - 2 1/2	A/AL	DT	Y	Y	Y	N	75 - 100	6	
DeVilbiss FN7	199	3/4 - 2	S/AL	DT	Y	N	N	N	65 - 100	5.1	
Duo-Fast DAFN-6480	551	1 1/4 - 2 1/2	A/AL	DT	Y	Y	Y	Y	70 - 120	5.6	
Duo-Fast LFN-764	580	1 - 2	S/AL	DT	N	Y	N	N	70 - 120	4.1	
Fasco F3TFN70	596	1 1/2 - 2 3/4	S/AL	DT	Y	N	Y	N	80 - 110	5	
Grizzly G3690	195	1 1/2 - 2 1/2	A/AL	DT	Y	Y	Y	N	80 - 120	5.9	
Grizzly G6049	250	1 1/4 - 2 1/2	AL	DT	Y	Y	Y	Y	80 - 120	4.8	
Haubold SKN-40V/16	442	5/8 - 1 5/8	S/ST	DT	Y	Y	Y	N	57 - 100	3.7	
Haubold SKN-64A/16	405	1 3/16 - 2 1/2	S/ST	DT	Y	OPT	N	N	85 - 110	4.8	
Hitachi NT65A	561	1 - 2 1/2	S/AL	DT	Y	Y	N	Y	70 - 120	4.6	
Hitachi NT65AA	697	1 1/4 - 2 1/2	S/AL	DT	Y	Y	Y	Y	70 - 120	4.6	360° directional exhaust; leather grip.
Jamercor JTA FN1464	379	1 1/4 - 2 1/2	A/AL	DT	Y	Y	Y	Y	70 - 110	5.4	
Jamercor JTFN1650	249	3/4 - 2	S/AL	DT	Y	N	N	N	60 - 100	4.4	
Jamercor JTFN1664A	275	3/4 - 2 1/2	S/AL	DT/SL	Y	Y	Y	Y	70 - 100	4.1	Directional exhaust; 3-way trigger.
Makita AF631	425	1 1/4 - 2 1/2	A/AL	DT, 2, SL	Y	Y	Y	N	65 - 120	5.5	
Max NF352/16-50	510	1 - 2	S/AL	DT	N	N	Y	Y	60 - 100	3.6	
Max NF510/15-50	530	1 - 2	A/AL	DT	Y	Y	Y	Y	60 - 100	4	
Paslode IM250II	499	3/4 - 2 1/2	S/AL	DT	N	Y	Y	Y	—	5.5	Cordless.
Penn State PSI ANK-3	210	5/8 - 2 1/2	S/AL	DT	Y	N	N	N	70 - 120	5	Case incl.; extra drive blade.
Penn State PSI ANK-5	250	1 - 2 1/2	A/AL	DT	Y	Y	Y	N	50 - 100	5.3	
Porter-Cable CDA250	500	1 1/4 - 2 1/2	A/AL	DT	N	Y	Y	Y	—	6.5	Case incl.; cordless.
Porter-Cable CFN250	500	1 - 2 1/2	S/AL	DT	N	Y	Y	Y	—	6.5	Case incl.; cordless.
Porter-Cable DA250A	432	1 1/4 - 2 1/2	A/AL	DT	Y	Y	Y	Y	70 - 120	6	Case incl.; soft-grip handle.
Porter-Cable FN250A	320	3/4 - 2 1/2	S/AL	DT	Y	Y	Y	Y	70 - 120	4.3	Case incl.; soft-grip handle.
Senco SFN1+	390	1 - 2	A/P	DT	Y	Y	Y	Y	70 - 120	4.3	Oilless.
Senco SFN40	465	1 1/4 - 2 1/2	A/P	DT	Y	Y	Y	Y	80 - 110	4.7	Oilless.
Spotnails FB1632	268	3/8 - 2	S/AL	DT	Y	N	N	N	85 - 100	3.4	
Spotnails HLB1516	444	1 1/8 - 2	S/AL	DT	Y	Y	Y	N	85 - 110	4.6	
Spotnails HLB1520	458	1 1/8 - 2 1/2	S/AL	DT	Y	Y	Y	N	85 - 110	4.8	
Spotnails KB1564	370	1 1/4 - 2 1/2	S/ST	DT	Y	Y	Y	Y	70 - 120	5.3	
Spotnails KBA1654	312	1 1/4 - 2 1/2	A/ST	DT	Y	Y	Y	Y	70 - 120	5.3	
Stanley-Bostitch N60FN	557	1 1/4 - 2 1/2	A/AL	2	N	Y	Y	Y	70 - 100	4.6	Directional exhaust.
Woodtek 832385	180	1 - 2 1/2	S/ST	DT	Y	N	N	Y	80 - 100	7	Case incl.
Woodtek 832392	215	1 - 2 1/2	A/ST	DT	Y	Y	Y	Y	80 - 100	7	Case incl.
Woodtek 864374	194	1 - 2	S/P	DT	Y	N	N	Y	80 - 100	4	Case incl.

KEY: Magazine Type: A = angled, S = straight. Magazine Material: Al = aluminum, P = plastic, ST = steel. Safety System: 2 = 2 triggers, DT = depress tip, SL = safety lock. Y = yes. N = no. OPT = optional. — = not applicable. New models in red. ● = Tested model: recommended. (See page 4.)

See page 152 for listing of manufacturers.

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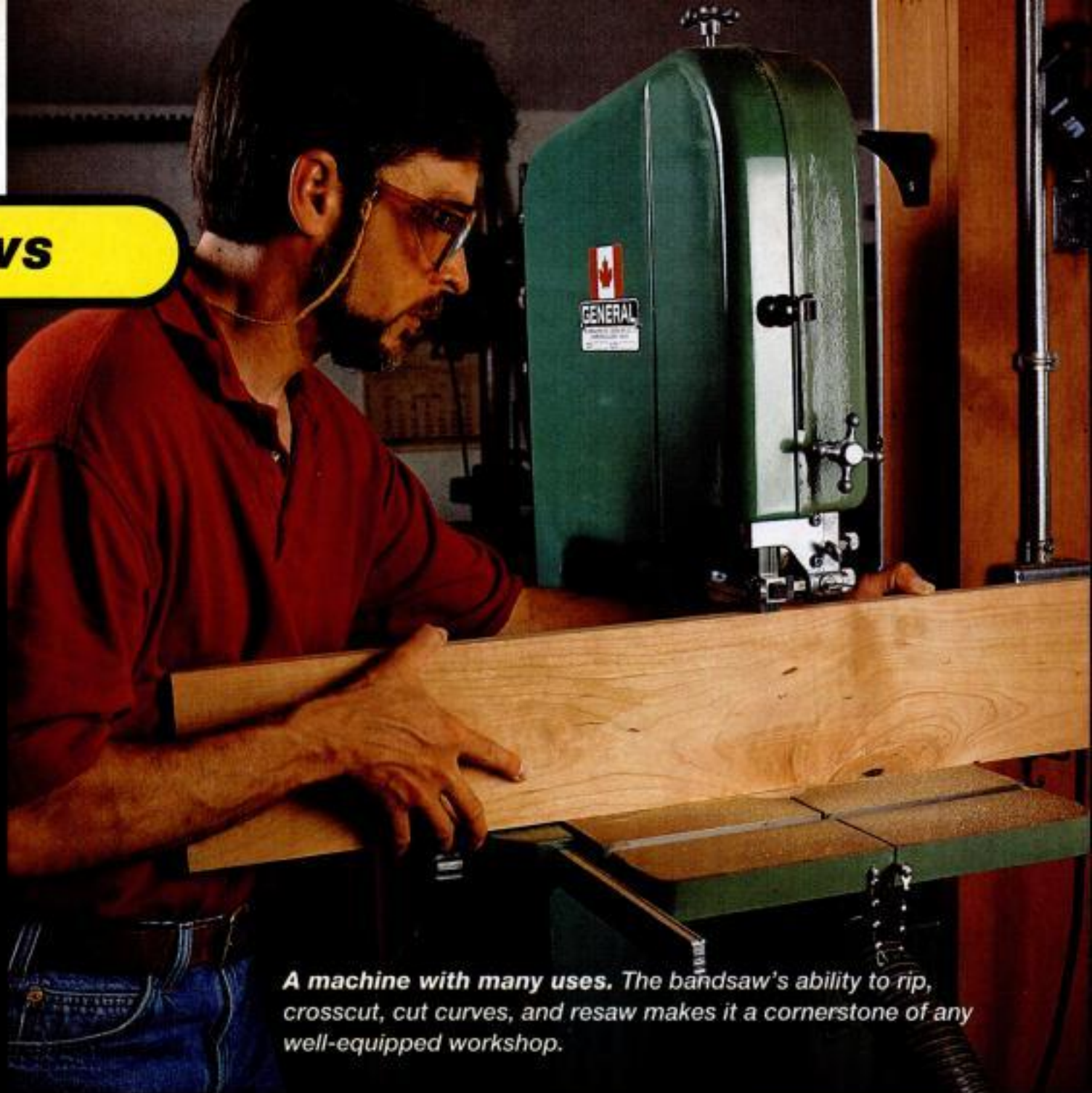
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CIRCLE NO. 86 ON PRODUCT INFORMATION FORM

Bandsaws

It will cut thick wood and thin, round pieces and squares, curved lines and straight. It can rip and crosscut odd-shaped billets more safely than a tablesaw can. It is the tool of choice for resawing wide stock into thinner boards—especially for producing veneers.

Quite simply, the bandsaw is the most versatile cutting machine in the shop.

Two-wheeled bandsaws are sized according to 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.



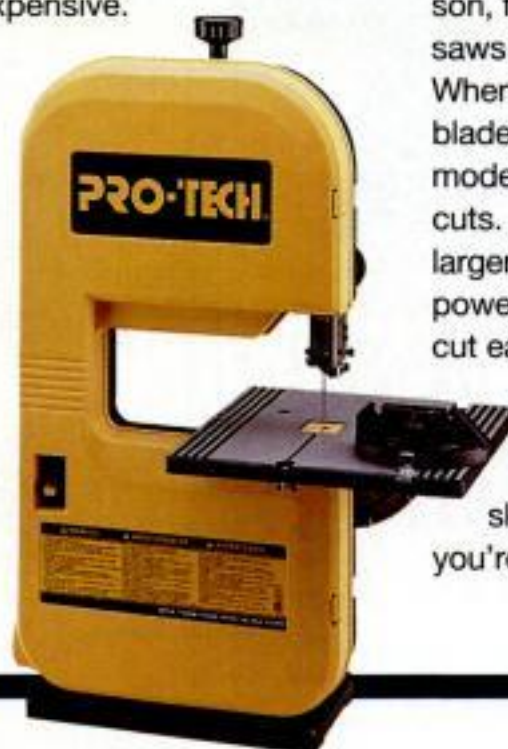
A machine with many uses. The bandsaw's ability to rip, crosscut, cut curves, and resaw makes it a cornerstone of any well-equipped workshop.

3 Types of bandsaws

Benchtop

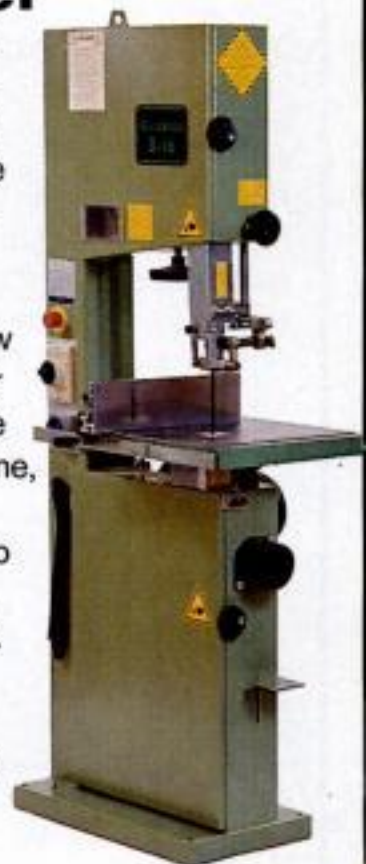
When budget or space limits you to a smaller saw, consider a benchtop model. Available in two-wheel (see photo, below) and three-wheel versions, benchtop bandsaws typically are lighter and less powerful than floor models, but they are also less expensive.

Benchtop saws excel at both light-duty cutting and scrollwork—cutting intricate curves in thin stock. They aren't up to the demands of resawing wide boards, or of cutting large or long boards, especially hardwood.



Floor Model

You can't manage large work on the small band-saw, but you can knock out small work on a large one. For this simple reason, floor-model bandsaws are workhorses. When fitted with a narrow blade, a heavy-duty floor model can make delicate cuts. And its heavier frame, larger throat, and more powerful motor allow it to cut easily through thick, dense stock too. Mount a wide (3/8-in. or wider) skip-tooth blade and you're set for resawing.



Features to Consider

Size and Power

A medium-size floor model—one with a 12- to 16-in. wheel diameter and a $\frac{3}{4}$ - to 1-HP motor—is ideal for general-purpose work, such as cutting curves in stock of different thicknesses and resawing. If you'll be doing production work or heavy resawing, look closely at floor models with 16-, 18-, or 20-in. wheels and a motor of at least 1½ HP.

Frame Material

To provide proper support for the blade and to minimize vibration, the bandsaw's frame needs to be as rigid as possible. In general, a cast-iron frame or a welded, heavy-gauge steel frame is more rigid than an aluminum frame.

Table

Look first for a rigid table that adjusts smoothly and locks securely at any angle without flexing. A table that tilts in two directions instead of one allows you to handle a wider variety of angled cuts, such as dovetails.

Blade Guides

A bandsaw relies on a pair of guide assemblies to keep the blade on track. Each of these assemblies has a guide on either side of the blade to prevent deflection and a thrust bearing behind the blade that keeps it from shifting or jumping off the wheels.

There are three basic types of blade guides: metal or plastic blocks, ball bearing, and Euro-style ball bearing. (See photos, right.) All three styles provide good support, but the ball-bearing guides, including the Euro-style, generate less heat.

Three Wheel

The throat capacity of a bandsaw can increase markedly when the blade is tracked around a third wheel.

But some drawbacks are inherent in the three-wheel design. First, it's more difficult to keep the blade properly tracked. And the typical small-diameter wheels put more strain on blades, causing them to break more frequently. A corollary is that the maximum blade width on three-wheelers is $\frac{3}{8}$ in.

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



Metal guide blocks require more clearance from the blade and cause more friction when cutting curves, but they're inexpensive and easy to replace. Plastic blocks run cooler, but wear faster than metal. The Euro-style guides are easiest to adjust.

The lower blade-guide assembly is fixed beneath the table. The upper assembly is mounted on a post that adjusts up or down to accommodate different stock thicknesses. Make sure this assembly's guides remain parallel to the blade when the post is adjusted up or down, then locked.

3 Types of Guides

Blocks



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. Euro-style ball-bearing guides are easier to adjust than American-style guides.

Options Worth Having

Cool Blocks. Because they are self-lubricating, these replacement guide blocks can be set against the blade to eliminate twisting and to provide a smoother cut.

Riser block. This height attachment adds 6 in. to the resaw capacity of most 14-in. bandsaws. It simply bolts in place between the top and base castings, spacing the wheels farther apart. This requires you to use longer blades.

Extra blades. Have on hand a narrow ($\frac{1}{8}$ -in.) blade for cutting tight curves, a wide blade ($\frac{3}{8}$ in. or wider) for resawing, and a spare general-purpose blade.

Bandsaws



Ryobi BS900



Powermatic 141



Grizzly G1019Z

BENCHTOP

FLOOR

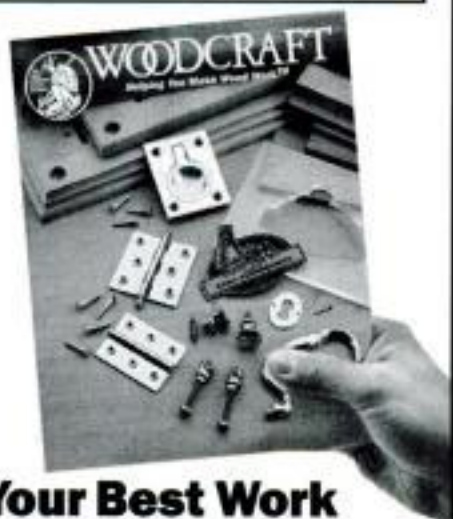
Brand & Model	List Price	Size (in.)	Resaw Capacity (in.)	Table Tilt Left, Right (°)	Blade Guide Type	Maximum Blade Width (in.)	HP	Volts	Weight (lb.)	Frame Material	Comments & Features
Grizzly G5965	\$120	7 1/2	4 7/8	0, 45	BB	1/2	1/3	115	42	A	Fence, miter gauge incl.
Delta 28-185	219	8	5	4, 45	M	3/8	1/5	115	35	A	Micro-adj. guides.
Inca 205	395	8	5 1/2	45, 0	M	1/2	1/2	115	44	A	
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	Fence, miter gauge incl.
Pro-Tech 3203	169	9	3 5/8	0, 45	M	3/8	1/3	115	31	A	Rack and pinion guide post and trunnions.
Ryobi BS900	179	9	3 1/4	45, 45	M	3/8	1/3	115	30	A	Miter gauge, wheel brush incl.
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	Sanding disc opt.
Inca 340	795	10 1/2	6 1/2	0, 45	CB	1/2	3/4	115	80	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 1/4	0, 45	BB	1/2	3/4	115	100	CI	3-wheel saw; sanding disc incl.
Delta 28-195	390	10	7	3, 48	CB	1/2	1/2	115	75	A	Lamp and miter gauge incl.
Craftsman 24835	350	12	6	—	M	1/2	5/8	115	130	A	Head tilts 45°.
Delta 28-190	497	12	6	3, 45	M	1/2	1/2	115	120	A	
Jet JSL-12BS	599	12	6	10, 45	M	1/2	1/2	115	158	CI	Hinged doors.
Bridgewood PBS-320	659	13	6 1/2	0, 45	M	1	1	230	143	S	Cast-iron wheels; fence incl.
Laguna LT 13	795	13	6	0, 45	CB	3/4	3/4	115	170	S	Cast-iron wheels; fence incl.
Craftsman 22414	550	14	6	15, 45	M	3/4	1 1/2	115	202	CI	Dust chute incl.
Delta 28-275	801	14	6 1/4	10, 45	M	3/4	3/4	115	201	CI	Micro-adj. guides.
Delta 28-280	1,076	14	6 1/4	10, 45	M	3/4	1	115	224	CI	Micro-adj. guides.
Grizzly G1019	300	14	6	10, 45	M	3/4	3/4	115/230	200	CI	Fence, miter gauge incl.
Jet JWBS-14CS	707	14	6	10, 45	P	3/4	1	115	185	CI	Micro-adj. guides.
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 guides.
Jet JWBS-C14CS	879	14	6	10, 45	BB	3/4	1	115	188	CI	Carter guides incl.
Jet JWBS-C14MW	919	14	6	10, 45	BB	3/4	1	115	197	CI	Carter guides incl.
Jet JWBS-C14OS	779	14	6	10, 45	BB	3/4	3/4	115	175	CI	Carter guides incl.
Lobo BS-0143	329	14	6	10, 45	P	1/2	3/4	115	176	CI	3 speeds.
North State WA-14M	450	14	6 1/4	10, 45	M - lower, BB - upper	3/4	1	115/230	250	CI	
Powermatic 044	796	14	9	15, 45	BB	3/4	1	115/230	214	S	
Powermatic 141	1,984	14	6 1/2	15, 45	BB	3/4	3/4	115/230	375	CI	1-piece, cast-iron frame.
Reliant DD90	330	14	5 3/4	10, 45	M	3/4	1	115/230	168	CI	4 speeds.
Ridgid BS1400	499	14	6	10, 45	M - lower, BB - upper	3/4	3/4	115	195	CI	Sanding belt, platen incl.
Tradesman 8157	329	14	6 1/4	10, 45	BB	1/2	1	115/230	162	CI	2 speeds; fence incl.
Transpower SB500	265	14	6	10, 45	CB	1/2	1	115	195	CI	3 speeds.
Grizzly G1019Z	325	14 1/2	6	15, 45	M	3/4	3/4	115	158	CI	2 speeds; fence, miter gauge incl.
Hitachi CB75F	4,913	14 1/2	11 3/4	0, 45	P - lower, BB - upper	3	27/10	115	309	S	Stellite tipped blade incl.
Bridgewood BW-15BS	295	15	6	10, 45	M	1	3/4	115	172	CI	2 speeds.
Craftsman 24393	699	15	8 1/2	0, 45	M	3/4	3/4	115	220	S	2 speeds; fence, miter gauge incl.
General 490-1-M1	1,418	15	6 3/4	10, 45	M	3/4	3/4	115/230	300	CI	Solid 1-pc. cast-iron frame.
General Int'l 90-150M1	1,250	15	7 1/2	0, 45	M	1	1	115/230	242	S	Fence incl.
Grizzly G1148	445	15	7 3/8	10, 45	M	3/4	3/4	115/230	180	S	2 speeds; fence, miter gauge incl.

KEY: Blade Guide Type: BB = ball bearing, CB = Cool Blocks, CR = carbide, ES = Euro-style ball bearing, M = metal blocks, P = plastic blocks. — = not applicable.
Frame Material: A = aluminum, CI = cast iron, S = steel. **New models in red.**
 ● = Tested model: recommended. (See page 4.)

[Continued on page 56.](#)

See page 152
for listing of manufacturers.

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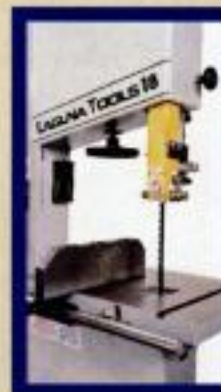
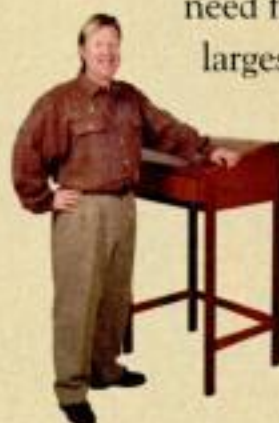


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CIRCLE NO. 55 ON PRODUCT INFORMATION FORM

Bandsaws



Craftsman 24393



Laguna LT 16 HD



Bridgewood PBS-440

See page 152
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 (lb.)	Frame Material	Comments & Features
Star S3501N	\$525	15	6	10, 45	BB	1	3/4	115/230	185	CI	2 speeds; fence and riser block opt.
Euroshop B-16	1,595	16	10	5, 45	ES	1	2	230	288	S	Fence, foot brake with kill switch incl.
Grizzly G1073	595	16	7 3/4	0, 45	M	1	1 1/2	115/230	450	CI	3 speeds; fence, miter gauge incl.
Laguna LT 16	1,195	16	9	5, 45	ES	1	1 1/2	230	290	S	2 dust ports; foot brake incl.
Laguna LT 16 HD	1,395	16	12	5, 45	ES	1 3/8	3	230	410	S	
Laguna LT 16 SEC	1,295	16	12	5, 45	BB	1	2 1/2	230	305	S	Carter guides, fence, foot brake incl.
Lobo BS-0164	691	16	10	10, 45	ES	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 S3502N	725	16	9 1/2	10, 45	BB	1	2	115/230	235	CI	3 speeds, fence incl.
Transpower SB600	560	16	10	10, 45	CB	1	1 1/2	115	242	CI	3 speeds.
Bridgewood PBS-440	1,795	18	12	5, 45	ES	1 3/16	3	230	480	S	Rack & pinion guide post.
Craftsman 24396	1,199	18	11	0, 45	M	1	1	115	270	S	2 speeds; fence, miter gauge incl.
Euroshop B-18	1,895	18	12	5, 45	ES	1	2 1/2	230	390	S	Fence, foot brake with kill switch incl.
General Int'l 90-250M	2,100	18	10	0, 45	M	1	2	230	330	S	2 speeds; fence incl.
Grizzly G1012	695	18	9 1/2	0, 45	M	2	1 1/2	230	350	CI	3 speeds; fence, miter gauge incl.
Grizzly G4186Z	895	18	10	10, 45	M	1	1 1/2	115/230	265	S	Rack and pinion guide post; mag. switch.
Jet JWBS-18-1	1,499	18	10	10, 45	M	1 1/2	1 1/2	115	320	S	Fence, miter gauge incl.
Laguna LT 18	1,995	18	12	5, 45	ES	1 3/8	3	230	400	S	Micro-adj. guides; foot brake incl.
Laguna LT 18 RM	3,295	18	16	5, 45	ES	2	5	230	475	S	Micro-adj. guides; foot brake incl.
Lobo BS-0181	899	18	9 3/4	10, 45	ES	1 1/2	2	115/230	420	S	2 speeds.
Mini Max S45	1,895	18	10	0, 45	ES	3/4	2 1/2	230	330	CI	3-phase opt.
North State WBS1803	795	18	10 1/2	10, 45	M	1 1/2	2	115/230	425	S	3 speeds.
Transpower SB800	635	18	9 1/2	10, 45	CB	1 1/2	2	115/230	425	CI	3 speeds.
Delta 28-640	2,934	20	11	4, 45	BB	1	2	230	585	S	Cast-iron fence; foot brake incl.
Delta 28-653	4,872	20	13 1/2	12, 45	M	1	3	230	786	S	2 speeds; foot brake incl.
Delta 28-662	8,185	20	13 1/2	12, 45	M	1	3	230	972	S	Variable speed.
Euroshop B-20	3,095	20	13	5, 45	ES	1 1/4	3	230	458	S	Rack and pinion guide post; fence incl.
General 390	3,200	20	12 1/4	10, 45	M	1	2	230	900	CI	
General Int'l 90-350	3,085	20	11	0, 45	M	1	2	230	585	S	Carter guides opt.
Grizzly G1258	1,295	20	12 3/8	0, 45	M-lower, BB-upper	2	1 1/2	230	580	S	Mag. switch; foot brake incl.
Inca 710	1,695	20	8	45, 0	BB	1	1 1/2	115/230	160	A	3-wheel saw.
Jet JWBS-20-3	2,379	20	11 3/4	10, 45	CR	1	2	230/460	880	CI	Fence, miter gauge, foot brake incl.
Lobo BS-0202	1,599	20	11 3/4	10, 45	ES	1 3/4	3	115/230	750	S	2 speeds.
North State WBS-20	1,495	20	11	10, 45	BB	1 1/2	3	230	700	S	Micro-adj. guides.
Seco SK-20BS	1,546	20	10	10, 45	BB	1	3	230	816	S	
Star S3506	1,325	20	12	10, 45	BB	1 1/2	3	115/230	600	S	Fence, miter gauge, foot brake incl.
Woodtek 811709	1,815	20	12 1/2	0, 45	BB	1	2	230	727	S	Foot brake incl.
General Int'l 90-450	3,885	24	13	0, 45	M	1 1/8	3	230	650	S	Carter guides opt.
Jet JWBS-24-1	3,699	24	13 1/2	10, 45	M	1 1/2	3	230	820	S	Fence, miter gauge, foot brake incl.
Lobo BS-0242	2,090	24	11 3/4	10, 45	ES	1 3/4	3	230/460	880	S	2 speeds.
North State WBS-24	1,900	24	11	10, 45	BB	1 1/2	5	230	800	S	Micro-adj. guides.

KEY: Blade Guide Type: BB = ball bearing, CB = Cool Blocks, CR = carbide, ES = Euro-style ball bearing, M = metal blocks, P = plastic blocks. — = not applicable. Frame Material: A = aluminum, CI = cast iron, S = steel.
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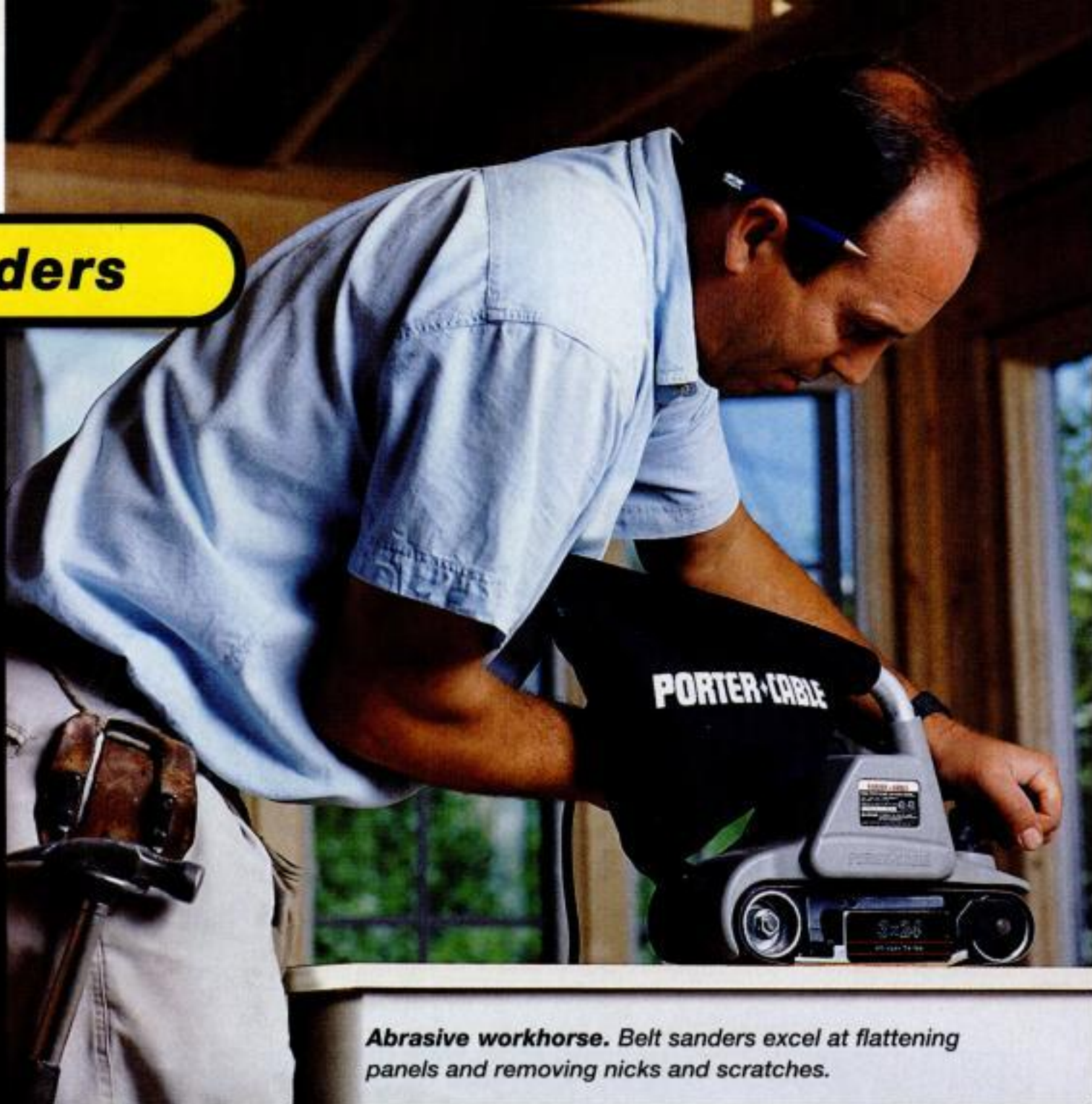


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Belt Sanders

This portable tool expedites a nasty job: sanding. It removes stock quickly, cleaning up rough surfaces and flattening glued-up panels. Without tearing the grain, it can smooth woods with troublesome wavy and interlocking figure. In skilled hands, it's capable of finer work too, like shaping curves. Keep in mind, though, that belt-sanded surfaces usually require additional smoothing before finishing. Some portable belt sanders can be mounted in optional accessory benchtop stands to shape and smooth small parts.

Belt-sander size is determined by the width and length of its belt. Common sizes are 3 in. by 21 in., 3 in. by 24 in., and 4 in. by 24 in.



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

2 Types of belt sanders

In-Line

On an in-line sander, the motor is 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 from 5 to 16 lb. When sanding horizontal surfaces, a heavier machine will be more stable and cut more aggressively. Extra downward pressure shouldn't be necessary. A lightweight model is best, however, for sanding vertical surfaces.

Platen Size

The size of the platen determines how much sandpaper actually contacts the work surface. (See photo, right.) All platens are at least as wide as the belt, but some are longer than others. Every choice is a compromise, but bear in mind that a 4-in.-wide platen is best for flattening wide boards or panels, while a 3-in.-wide platen is more stable for sanding the edge of a board.

Power

It's smart to buy the tool with the most powerful motor. Although similar sanders may run at the same no-load speed, the one with the more powerful motor will not bog down under load. Look for a high amp rating, rather than high horsepower.

Variable Speed

Variable speed allows you to slow down the belt, an invaluable capability when sanding veneer or small parts. Slower speeds also prevent burning the workpiece when using fine-grit belts.

Dust Collection

Belt sanders generate lots of fine dust, so all but a few have at least a dust bag. A small bag won't get in the way or block your



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 less likely to get in the way than side-mounted bags.

view of the work, but a large bag doesn't have to be emptied as frequently. For production work, buy a model that has a dust port for hookup to a shop vacuum.

Noise

Most belt sanders are very noisy, so plan on wearing ear protection. The exceptions are the "Whisper" models from Porter-Cable.

Transverse

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, which isn't available for all models, helps control the sander on flat surfaces, eliminating gouges. It acts like the sole of a plane, allowing the sander to remove high spots by skipping over low ones.



Sander with accessory sanding frame

Bench-mount or inversion stand. To facilitate shaping and sanding of small parts, this accessory turns the portable belt sander into a stationary one. Bench stands aren't available for all models.



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



Bosch 1274DVS



Porter-Cable 503



Makita 9911



DeWalt DW431



Hitachi SB10T

Brand & Model	List Price	Belt Width x Length (in.)	Belt Speed (ft./min.)	Amps	Platen Width x Length (in.)	Dust Collection	Weight (lb.)	Comments & Features
Skil 7313-44	\$199	3 x 18	700	4.5	3 x 5	DB	5.4	Auto-tracking belt control.
Bosch 1274DVS	326	3 x 21	550 - 1,100	6.6	3 x 5	DB, VP	7.1	Graphite platen; removable front handle.
Craftsman 27725	150	3 x 21	775 - 1,150	6	3 x 5 1/4	DB	8.7	Variable speed.
Ryobi BE322	165	3 x 21	775 - 1,150	6	3 x 5 1/4	DB	8	Single-lever belt release; variable speed.
Porter-Cable 503	780	3 x 24	1,500	9	5 1/2 x 3	DB, VP	15	Quick-release belt lever; dust bag incl.
Porter-Cable 504	732	3 x 24	1,600	9	5 1/2 x 3	—	15.5	
Makita 9910	202	3 x 18	900	5.6	3 1/2 x 5 1/2	DB, VP	5.7	
Makita 9911	225	3 x 18	250 - 900	5.6	3 1/2 x 5 1/2	DB, VP	5.7	
Skil 7313	90	3 x 18	700	4.5	3 x 5	DB	5.4	Auto-tracking belt control; quick-release belt lever.
Craftsman 11712	60	3 x 21	1,100	4.7	3 1/2 x 5	—	7.8	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; variable speed.
Hitachi SB75	325	3 x 21	1,475	8.7	4 1/4 x 5	DB	9.7	Quick-release belt lever.
Porter-Cable 351	310	3 x 21	1,300	7	4 3/4 x 3	—	12	Quick-release belt lever.
Porter-Cable 352	318	3 x 21	1,300	7	4 3/4 x 3	DB, VP	12.5	Quick-release belt lever.
Porter-Cable 352VS	332	3 x 21	850 - 1,300	7	4 3/4 x 3	DB, VP	12.5	Quick-release belt lever.
Bosch 1275DVS	410	3 x 24	1,150 - 1,550	10.5	3 x 6	DB, VP	12.5	Adj. front handle; replaceable wear inserts.
Porter-Cable 360	402	3 x 24	1,500	12	5 1/2 x 3	DB, VP	14.5	Whisper series (low decibel).
Porter-Cable 360VS	429	3 x 24	1,000 - 1,500	12	5 1/2 x 3	DB, VP	14.5	Whisper series (low decibel).
Porter-Cable 361	389	3 x 24	1,500	12	5 1/2 x 3	—	14.5	Whisper series (low decibel).
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 1276D	410	4 x 24	1,550	10.5	4 x 6	DB, VP	13.5	Adj. front handle; sanding frame, stand opt.
Bosch 1276DVS	443	4 x 24	1,150 - 1,550	10.5	4 x 6	DB, VP	13.5	Adj. front handle; sanding frame, stand opt.
Hitachi SB10T	436	4 x 24	1,380	8.7	4 1/4 x 7	DB	11.7	Quick-release belt lever.
Milwaukee 5931	475	4 x 24	1,400	10	4 x 6 1/2	—	14.3	Quick-release belt lever; 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	417	4 x 24	1,500	12	5 1/2 x 4	DB, VP	15.5	Whisper series (low decibel).
Porter-Cable 362VS	446	4 x 24	1,000 - 1,500	12	5 1/2 x 4	DB, VP	15.5	Whisper series (low decibel).
Porter-Cable 363	404	4 x 24	1,500	12	5 1/2 x 4	DB, VP	15	

KEY: Dust Collection: DB = dust bag, VP = vacuum port. — = not applicable.
New models in red. ● = Tested model: recommended. (See page 4.)

See page 152
for listing of manufacturers.



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NEW! 950001N 1/2-1 1/4" (1/4" crown) Stapler \$144.50
SLP20 Brad Nailer \$208.95
SFN1+ 1-2" Finish Gun \$292.95
SFN401 2-2 1/2" Finish Gun w/case \$348.90
SKS Med. Duty Stapler \$248.00
NEW! PRO600 Framing Nailer \$362.90
SCN40R Roofing Nailer \$387.90
SN60 Full Round Head Nailer \$388.90
PC0701 A9 Palm Nailer.....\$159.00



STANLEY BOSTITCH

RN45B-1 1/4-1 1/2" Coil Roofing Nailer \$367.90
N80SB-1 2-3/4" Framing Stick Nailer \$348.00

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DA250A 15G 1 1/2-2 1/2" Finish \$234.90
FN 250A 16G 1 1/2-2 1/2" Finish \$183.00
NS150 18G 1/4-1 1/2" Crown Stapler \$168.00
FC350 Clipped Head 2-3/4" Framing Nailer Kit \$287.00
FR350 Full Round Head 2-3/4" Framing Nailer Kit \$287.00
693PK 1-1/2 HP Plunge Router Kit includes 690 w/ fixed base & plunge base w/ case \$188.00
690 1 1/2 HP Router \$142.00
691 1 1/2 HP HDL Router \$159.00
693 Plunge Base Router \$178.00
6931 Plunge Base Only \$82.00
6911 D-Handle Base Only \$72.00
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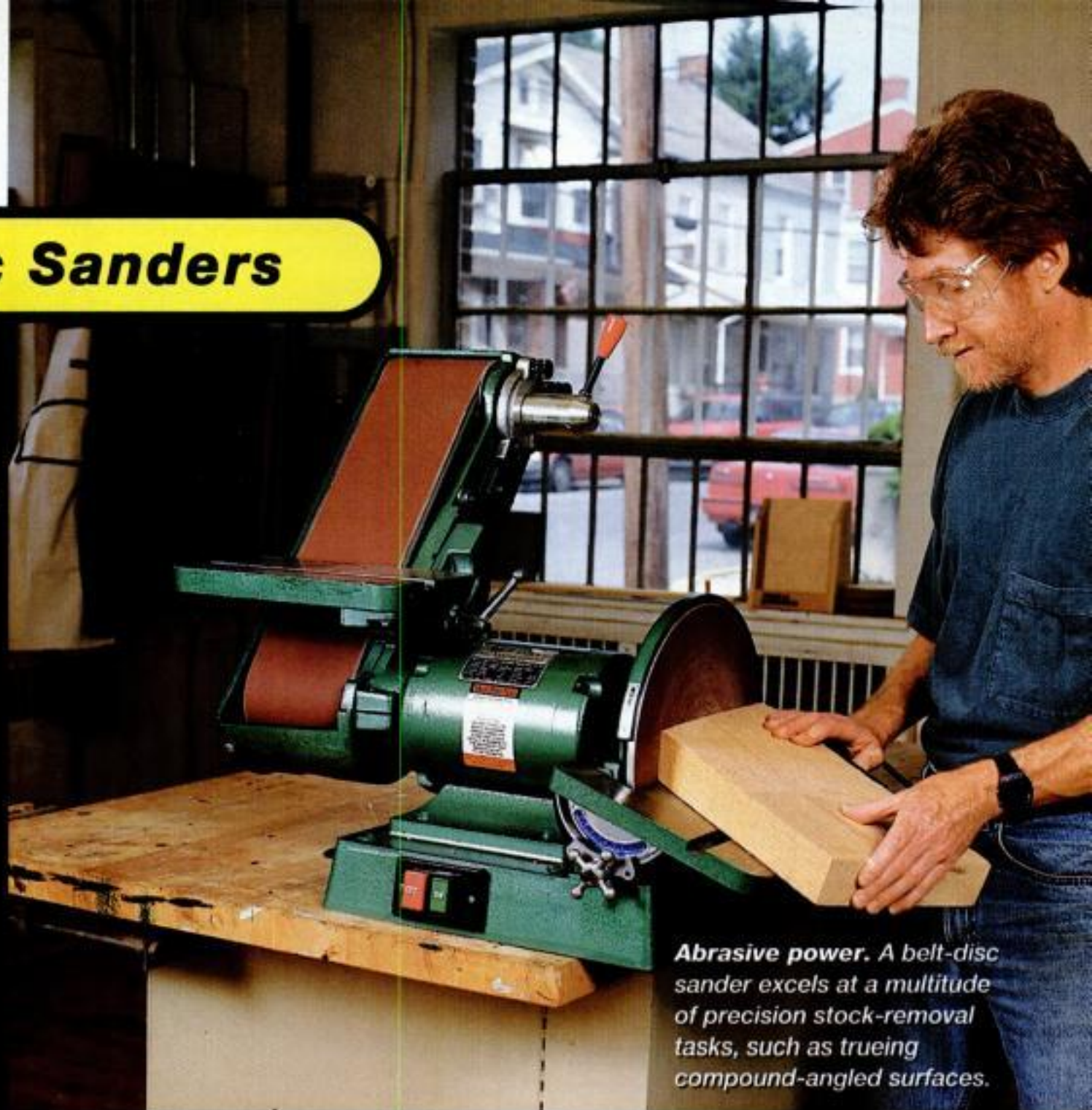
Belt-Disc Sanders

The versatile belt-disc sander can handle a wide variety of sanding jobs, from contouring a cabriole leg to refining a bevel angle. One motor powers both a sanding disc and a sanding belt.

The disc, with its support table, is great for removing stock from flat and convex surfaces, fitting joints, and sanding up to a mark.

The table tilts so you can sand crisp, accurate miters and bevels.

The belt sander is ideal for flattening and smoothing. Its table adjusts, and belt position can vary from horizontal to vertical. You can sand concave surfaces where the belt passes over the rollers, and straight or convex surfaces where the belt passes over the metal platen.



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

2 Types of belt-disc sanders

Floor Model

Belt-disc sanders vary greatly in size, construction, and features. Floor models range from a machine mounted on an open stand to a unit with a 1-HP or larger motor in a large, enclosed base. The open-stand version is more affordable, though heavy production work may demand more power.



Benchtop

If you go with a benchtop belt-disc sander, you don't lose anything except the stand. Typically, benchtop sanders are just as heavy and powerful as floor models and can save on valuable floor space.

Features to consider

Size

All the machines listed in the chart on page 64 are sized to accept 6-in.-wide by 48-in.-long sanding belts. Among these sanders, disc diameter varies from 6 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

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

Each table should have semicircular supports called trunnions, which allow you to tilt the table for sanding at an angle. Cast-iron trunnions are sturdier than steel or aluminum ones. The table should tilt smoothly and lock rigidly in place without shifting the table's angle.

Belt Position

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

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. You can minimize burning on the faster machines by using fresh sandpaper and a light touch.

Belt Tracking Controls

Look for a locking mechanism that keeps the belt from drifting off track while it's running. All belt-disc sanders have a tracking adjuster; typically, you turn a knob while the machine is running to center the sanding belt on the end rollers. But not all models have a lock for the setting.

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.



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-iron tables and trunnions give solid support for sanding at a variety of different angles.

Belt-Disc Sanders



Craftsman 22595



Grizzly G1014Z

See page 152
for listing of manufacturers.

Brand & Model	List Price	Disc Diameter (in.)	Number of Tables, Material	Trunnion Material	Disc Speed (rpm)	Belt Speed (ft./min.)	HP	Quick Belt Release	Dust Coll. Port	Weight (lb.)
Benchtop										
Belsaw MC-4/6BD	\$175	6	1, A	A	1,720	2,200	1/3	Y	N	28
Powermatic 84	532	10	2, CI	CI	2,000	2,500	1	Y	Y	120
Grizzly G1183	399	12	2, CI	A	3,450	5,000	1	Y	Y	155
Grizzly G1276	439	12	2, CI	A	1,725	2,500	1	Y	Y	155
Jet JSG-6DC	999	12	2, CI	CI	1,750	2,500	1 1/2	Y	Y	160
Woodtek 923810	529	12	2, CI	CI	1,720	2,250	2	Y	Y	145
Floor										
Belsaw MC-6/9BD	525	9	1, CI	CI	1,725	2,100	3/4	Y	N	106
Craftsman 22595	299	9	2, A	CI	3,450	2,700	3/4	Y	Y	105
Delta 31-695	441	9	1, A	A	2,800	2,200	1	Y	Y	79
Grizzly G1014Z	170	9	1, CI	A	1,720	2,323	3/4	Y	Y	114
Lobo SD-0069	249	9	1, CI	CI	1,725	1,356	3/4	N	N	140
Reliant DD79	230	9	2, CI	CI	1,725	2,100	3/4	Y	N	115
Star S3401	199	9	1, A	S	2,700	2,100	3/4	Y	Y	110
Star S3501	185	9	1, CI	CI	2,700	2,100	3/4	Y	Y	110
Tradesman 8190	249	9	2, CI	CI	1,725	2,100	3/4	N	OPT	104
Woodtek 814253	269	9	1, CI	CI	1,725	2,100	3/4	Y	Y	131
General Int'l 15-030	935	10	2, CI	S	2,100	1,650	1	Y	Y	180
Delta 31-280	1,012	12	2, CI	CI	2,500	1,971	1 1/2	Y	Y	182
Delta 31-730A	1,690	12	2, CI	CI	2,100	3,030	1 1/2	Y	Y	158
General Int'l 15-035	1,000	12	2, CI	CI	3,450	2,500	1 1/2	Y	Y	220
Lobo SD-0612	479	12	2, CI	CI	1,800	2,323	1 1/2	Y	Y	180
Powermatic 31	1,786	12	2, CI	CI	2,400	2,850	1 1/2	Y	Y	308
Star S3402	450	12	2, CI	CI	2,000	1,576	1	Y	Y	199

KEY: Material: A = aluminum, CI = cast iron, S = steel. Y = yes. N = no. OPT = optional.
New models in red. ● = Recommended based on AW shop testing.

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3X24	.93
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Biscuit Joiners

The fastest way to make strong mechanical joints in solid wood or man-made boards is with a biscuit joiner. Though not as elegant as dovetailing or as sturdy as mortise-and-tenon joinery, biscuit joinery is quick, efficient, and versatile. It's well suited to plywood and particleboard casework, but it's also popular in edge-gluing and in making butt and miter joints for frame assembly.

To make a biscuit joint, you cut arc-shaped slots in mating workpieces using the biscuit joiner's plunge action. A football-shaped, flat "biscuit" made of compressed wood is glued into the slots as the joint is assembled. Glue's moisture swells the biscuit to create a tight joint.

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

2 Types of biscuit joiners

Portable

Almost every biscuit joiner on the market is portable. The popularity of these handheld machines stems from their versatility.

With a portable biscuit joiner, you move the tool to the work to make a cut. Consequently, you can cut a joint just about anywhere—even in the middle of a panel's face. The tradeoff is that a portable model can be tiring to use if you're working with small pieces in a production situation.



Features to consider

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 standard biscuit sizes: #0, #10, and #20. Some also cut deeper slots for oversize biscuits and special biscuit-shaped hardware and hinges. Ryobi's Detail Biscuit Joiner uses miniature biscuits in three sizes: 5/8 in., 3/4 in., and 1 in.

Anti-Slip Devices

A biscuit joiner is likely to jerk sideways when its spinning cutter plunges into the edge of a workpiece. To prevent this, biscuit joiners use anti-slip pads; most are made of rubber. A full-width pad works best, especially for gripping small workpieces.

Slip Clutch

A slip clutch reduces wear on the motor by allowing the blade to stop if the cutter jams. This is not available on all models.

Dust Collection

Although most machines have dust bags, they tend to fill up quickly. Some models have a port for connecting a shop vacuum.

Fence Adjustments

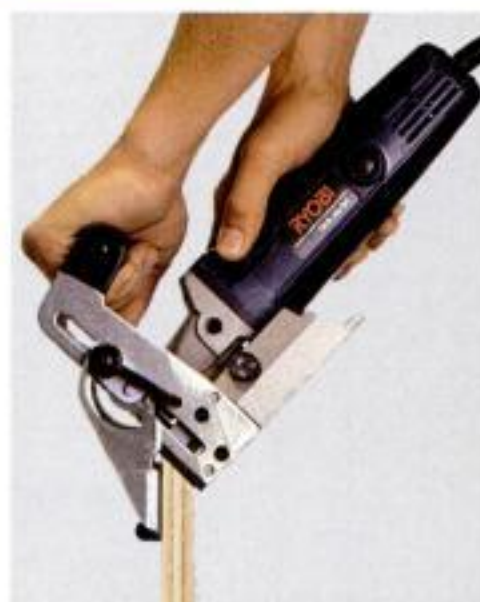
Accurate placement of the biscuit slots is affected by two fence adjustments: height and angle.

Fence Height Adjustment

Fence height is vital to joint alignment. Easiest to adjust are fences equipped with locking levers. Trying to hold a fence setting while tightening allen-screw mechanisms can be frustrating. The double rack-and-pinion mechanism on the DeWalt ensures that the fence remains parallel to the blade during adjustment.

Fence Angle Adjustment

Biscuit joiner fences work in one of two ways to align cuts in miter joints. (See photos, below.) A "fixed" fence will work on 0°, 45°, and 90° angles. An adjustable fence has a continuous protractor scale, so you can set the fence to any angle within a given range. With this type of fence, you can join boards at odd angles. See the Fence-Angle Adjustment column in the chart on page 68.



Biscuit-joining miters. Two different fence configurations are used to align cuts in miters. A fixed 45° fence, such as that on Freud's model JS100, (above left), registers against the inside face of the workpiece. Adjustable fences, such as those on the DeWalt and Ryobi models, capture the beveled edge of the miter. This will align the outside corners of the two pieces during assembly.

Benchtop

With Delta's benchtop biscuit joiner (model 32-100), you move the work to the machine. You hold the workpiece on the table and register it

against the fence. Step on the foot pedal (shown at right in the photo) and the blade plunges into the work. The tabletop adjusts for height and tilt, and it has a miter gauge.



This benchtop arrangement clearly is beneficial when working small production pieces. But maneuvering large panels on this machine's small table can be awkward.

Biscuit Joiners



Freud JS102



Porter-Cable 557

Brand & Model	List Price	Fence Height Adj.	Fence Angle Range (°)	Fence Material	No. of Depth Stops	Slip Clutch	Dust Collection	Anti-Slip Device	Amps	Comments & Features
Craftsman 17501	\$100	LL	Adj. 0-90	P	3	N	DB	RU	6	2-knob fence lock.
Craftsman 17550	70	LL	Fixed 0, 45, 90	P	3	N	N	RU	3.5	Clear fence; uses mini-biscuits.
Craftsman 27730	210	R&P	Adj. 0-90, notch for 135	A	4	N	DB, VP	RP	6.5	
Delta 32-100	375	LL	Adj. 40-90	A	3	N	VP	WC	10	Benchtop model with foot pedal.
DeWalt DW682K	386	DR&P	Adj. 0-90, notch for 135	A	4	N	DB, VP	RP	6.5	Coated baseplate; case incl.
Freud JS100	334	LL	Fixed 0, 45, 90	A	6	N	DB, VP	RU	5	Anti-kickback blade.
Freud JS102	355	LL	Adj. 0-90	A	6	N	DB, VP	RU	5	Anti-kickback blade.
Lamello Classic C2	499	LL	Adj. 0 - 90	A	6	Y	VP	RU	6.5	
Lamello Experta	749	LL	Adj. 0 - 90	A	6	Y	VP	RU	6.5	
Lamello Top 20	999	LL	Adj. 0 - 90	A	6	Y	VP	RU	6.5	
Makita 3901	421	R&P	Fixed 0, 45, 90	A	3	N	DB	RU	5.7	Case incl.
Porter-Cable 556	240	S	Adj. 0-90 Fixed 45, 90	A	3	N	N	RP	5	Vertical handle; case incl.
Porter-Cable 557	400	T	Adj. 0-135	A	7	N	DB, VP	F	7.5	Uses standard and face-frame biscuits.
Ryobi DBJ50	79	R&P	Fixed 0, 45, 90	P	3	N	N	RU	3.5	Uses mini-biscuits.
Ryobi JM-80K	99	LL	Adj. 0 - 135	A	4	N	DB	RU	6	Case incl.
Skil HD1605	192	S	Fixed 45, 90	P	3	N	DB, VP	RU	5.8	Biscuit assortment incl.
Virutex AB-11C	265	LL	Adj. 0-90	A	3	N	VP	RU	6	Case incl.

KEY: Fence Height Adj.: DR&P = double rack & pinion, LL = locking levers, R&P = rack & pinion, S = allen screw, T = thumb wheel. Fence Material: A = aluminum, P = plastic. Dust Collection: DB = dust bag, VP = vac. Anti-Slip Device: F = anti-slip facing, RP = retractable pins, RU = rubber, WC = work clamps. Y = yes. N = no. New models in red. ● = Recommended based on AW shop testing.

See page 152
for listing of manufacturers.

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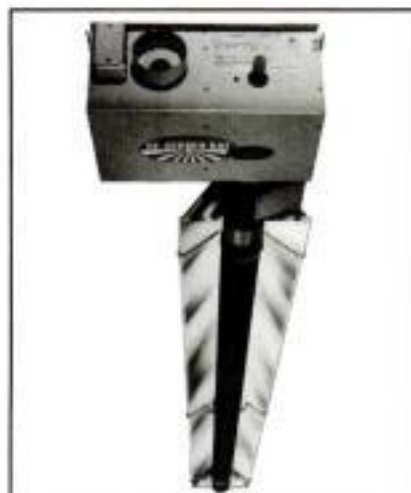
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8" set	\$289	\$260	\$245
10" set	\$349	\$314	\$297



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

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8", 8 1/4", 7 1/4" x 60 Tooth	\$109	\$98	\$87
10" x 60 Tooth	\$129	\$116	\$103
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DURALINE HI A/T: 7 1/4"-16" dia. avail.

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	Sale Price	10% Off First Blade	20% Off Second Blade
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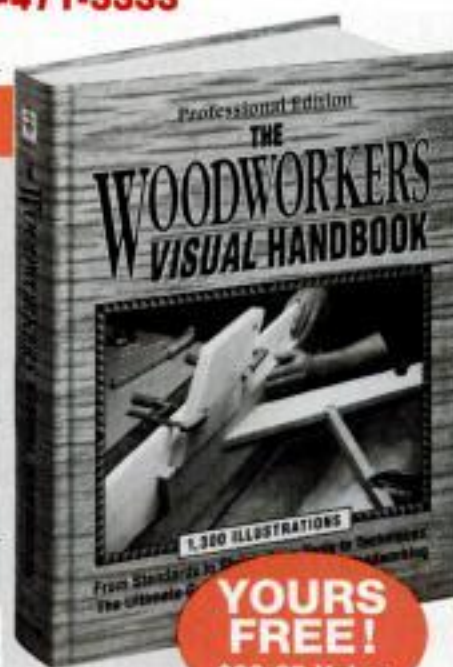
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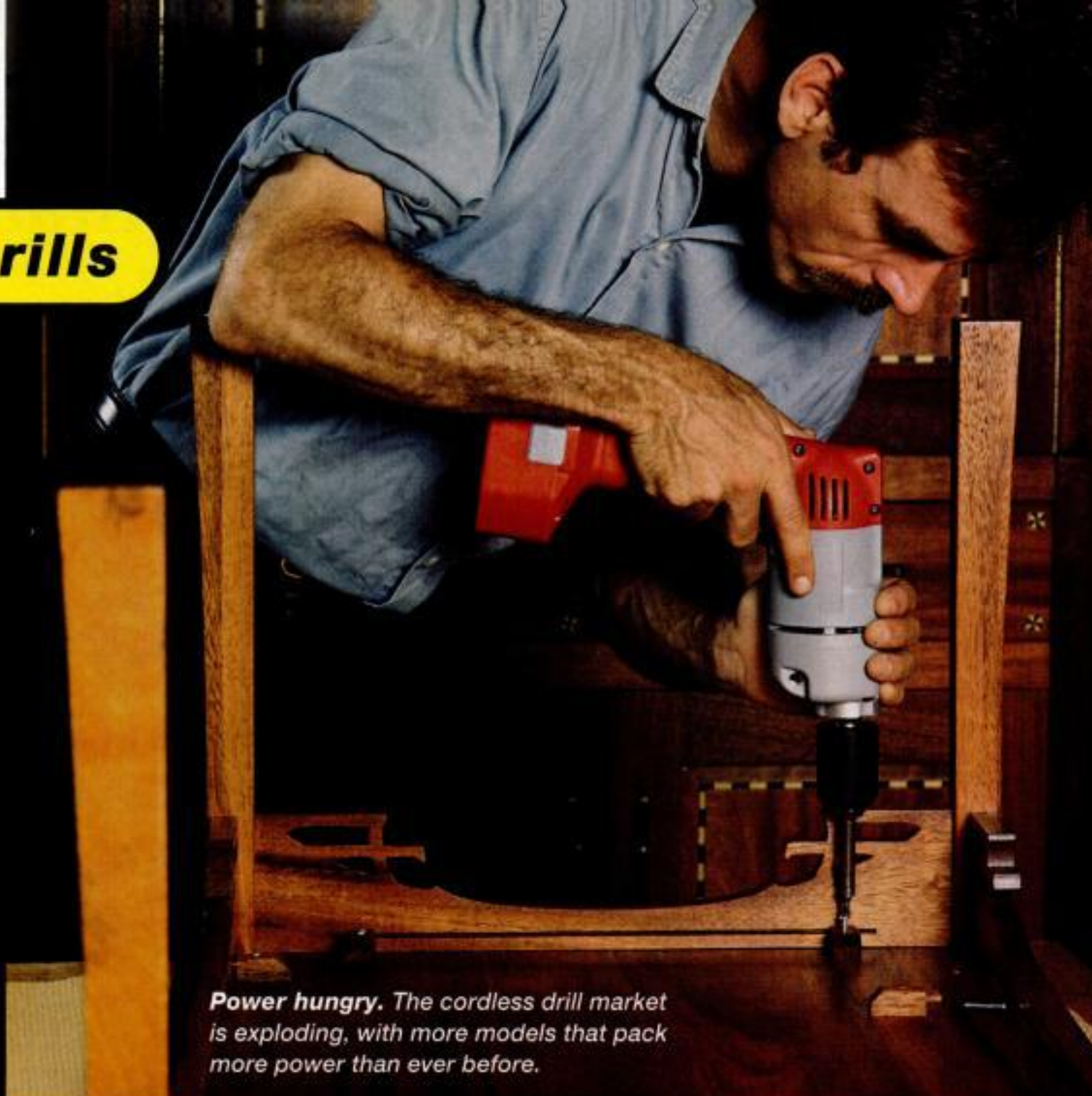
Use any of these blades for a month. If you are not completely satisfied, return the blade for a complete refund. No other blade company will make that kind of guarantee—because there's no other blade like a Forrest blade!

Cordless Drills

It shouldn't be a surprise that cordless drills are among the fastest-selling power tools. After all, they are "crossover" tools, used by homeowners, tradespeople, and woodworkers alike.

Unlike earlier models, which were no match for plug-in models, today's heavy-duty drills pack plenty of power. With such innovations as variable speed control, clutches, electronic brakes, and keyless chucks, they are versatile and convenient to use.

A cordless can do anything a plug-in drill can do, except hogtie you with its cord. Since it isn't tethered to an electrical outlet, it offers unlimited freedom of movement around the shop or at the jobsite.



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

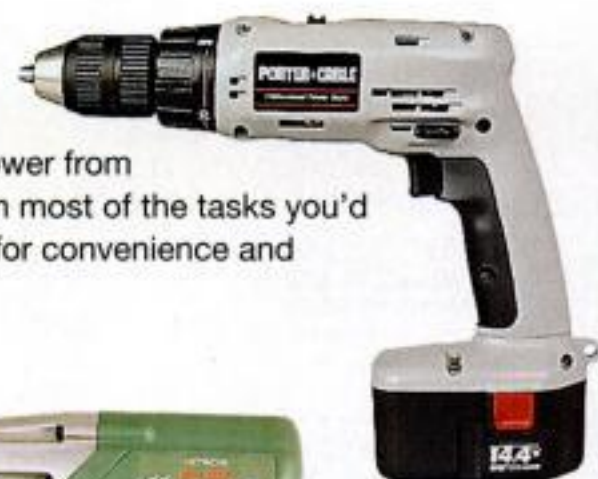
3 Types of cordless drills

Conventional

Most cordless drills fall into this broad category, but few have precisely the same features. They range in power from the old 9.6V standard to 18V 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

An impact driver is a cordless version of the power tool used by your auto mechanic. It delivers extremely high torque in short, loud bursts. In woodworking and construction, it is useful for protracted sessions driving long screws and bolts. Most models have a 1/4-in. hex chuck; a drill chuck, if available at all, is an extra-cost option.



Features to consider

Power

"More power!" is a cry that cordless manufacturers have heard and heeded. A unit powered by a 9.6V battery is adequate for short-term, light-duty work. But more volts means more torque to drive larger bits and screws plus longer running time between charges. Go for all the power your pocketbook will support, especially if you expect a cordless to do heavy-duty or extended work.

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.

Chuck

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



Keyless chuck. If you tend to lose your keys, you'll love this feature, which allows you to tighten and loosen the chuck by hand.

Right Angle

Confined 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.



Reversing switch. The reversing switch should be accessible but not prone to accidental switching. This switch passes through the drill body above the trigger.

Electronic Brake

Release the trigger and the electronic brake stops the chuck from spinning. You don't have to wait before driving the next screw or changing bits.

Clutch

The majority of today's cordless models have adjustable clutches, which means you can select the desired torque for driving screws to a precise depth. In addition to a "locked" setting for drilling holes and driving larger-than-average screws, almost all clutches have at least five torque settings. A surprising number have as many as two dozen settings. Electronic clutches, which are quiet, simply cut power to the drill when a particular torque is reached.

Handle Style

Conventional drills come in two basic handle styles—pistol grip and T-handle. (See photo, below.) A T-handle model is usually well balanced, with the handle centered under the drill body. It's compact, so it's more maneuverable in tight or awkward spaces. But the pistol-grip design makes it easier to apply force directly in line with the bit and lean into your work.



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.

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

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

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



Hitachi DS10DV2B



Porter-Cable 9830



Ryobi RY961-K2



DeWalt DW975K



Fein ABS12-2EUQ

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 (lb.)	Comments & Features
Black & Decker HPC961K	\$79	9.6	Y	900	Y	24	KL, 3/8	TH	3.2	
Bosch 3105K	199	9.6	OPT	300, 980	Y	6	KL, 3/8	TH	3.1	2 batteries; close-quarters work.
Craftsman 27190	120	9.6	Y	350, 1,000	Y	24	KL, 3/8	TH	3.8	2 batteries; brake; case.
Craftsman 27490	100	9.6	Y	600	N	4	KL, 3/8	PG	3.8	2 batteries; case.
DeWalt DW952K-2	238	9.6	Y	400, 1,200	Y	17	KL, 3/8	TH	3.7	2 batteries; case.
Festo Tooltechnic CDD 9.6 ES-Plus	295	9.6	Y	380, 1,100	Y	9	KL	PG	3.5	Short head for right-angle use.
Hitachi DS10DV2B	364	9.6	OPT	1,200	Y	22	KL, 3/8	TH	3.5	2 batteries.
Hitachi FDS10Dual	217	9.6	OPT	280, 850	Y	5	KL, 3/8	TH	3.3	2 batteries; flashlight incl.
Makita 6095DWE	329	9.6	OPT	400, 1,100	Y	12	KL, 3/8	PG	3.8	2 batteries.
Makita 6096DWE	216	9.6	N	350, 1,100	Y	16	KL, 3/8	TH	2.9	
Makita 6201DWHE	351	9.6	OPT	350, 1,100	Y	6	KL, 3/8	TH	3.7	2 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	2 batteries.
Panasonic EY6181CRKW	292	9.6	OPT	350, 1,000	Y	22	KL, 3/8	TH	3.3	2 batteries; compact.
Panasonic EY6780EQK	354	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 batteries; case.
Ryobi CD95K	79	9.6	N	550	N	6	KL, 3/8	PG	3	2 batteries; case.
Ryobi CTH962K	119	9.6	Y	300, 1,000	Y	6	KL, 3/8	TH	3.3	2 batteries; case.
Ryobi HP961K	79	9.6	N	550	N	24	KL, 3/8	TH	3	2 batteries; case; level.
Ryobi RY961-K2	79	9.6	OPT	550	N	24	KL, 3/8	TH	3	2 batteries; case; level.
Skil 2375	95	9.6	N	700	N	6	KL, 3/8	PG	2	3-hr. charger.
Skil 2380-02	87	9.6	N	700	N	6	KL, 3/8	TH	3	1 battery; case.
Skil 2380-04	115	9.6	N	700	N	6	KL, 3/8	TH	3	2 batteries; case.
Skil HD2645-04	186	9.6	N	350, 1,000	Y	16	KL, 3/8	TH	3.5	2 batteries; case.
Wagner WB96K	70	9.6	N	550	Y	6	KL, 3/8	TH	3	3-hr. charger; case.
Black & Decker FS632K-2	99	12	Y	900	Y	24	KL, 3/8	TH	3.6	
Bosch 3305K	229	12	OPT	400, 1,200	Y	16	KL, 3/8	TH	3.4	2 batteries; close-quarters work.
Bosch 3315K	339	12	OPT	400, 1,200	Y	16	KL, 3/8	TH	3.7	2 batteries.
Bosch 3350K	359	12	OPT	400, 1,200	Y	16	KL, 1/2	TH	4.5	2 batteries; soft grip.
Craftsman 27139	140	12	Y	350, 1,000	N	6	KL, 3/8	PG	4.2	2 batteries.
Craftsman 27196	160	12	Y	350, 1,100	Y	24	KL, 3/8	TH	4.2	2 batteries; brake.
DeWalt DW953K-2	296	12	Y	400, 1,200	Y	17	KL, 3/8	TH	3.8	2 batteries; case.
DeWalt DW970	180	12	N	450, 1,400	Y	17	HX, 1/4	TH	3.2	
DeWalt DW971K-2	362	12	Y	450, 1,400	Y	17	KL, 3/8	PG	4.2	Rubber grip & trigger.
DeWalt DW972K-2	362	12	Y	450, 1,400	Y	17	KL, 3/8	TH	4.2	Rubber grip & trigger.
DeWalt DW972KQ-2	438	12	Y	450, 1,400	Y	17	KL, 3/8	TH	4.2	15-minute charger.
DeWalt DW975K	386	12	Y	450, 1,400	Y	17	KL, 3/8	TH	3.7	Hammer action; 4,950/15,400 bpm.
DeWalt DW979K	372	12	Y	800, 2,300	Y	0	HX, 1/4	PG	4.2	Drywall/deck gun.
Fein ABS12-2EUQ	335	12	OPT	340, 1,200	Y	12	KL	PG	4.2	2 battery positions.
Festo Tooltechnic CDD 12 ES-Plus	340	12	Y	380, 1,100	Y	9	KL	PG	4	Short head for right-angle use.
Hitachi DS13DV2B	385	12	OPT	1,200	Y	22	KL, 1/2	TH	4.2	2 batteries.
Makita 6011DWE-2	365	12	N	450, 1,350	Y	6	KL, 3/8	PG	4.2	2 batteries; case.
Makita 6212DWG	412	12	N	370, 1,150	Y	6	KL, 3/8	TH	4	High-cap. power-display battery.

CONVENTIONAL

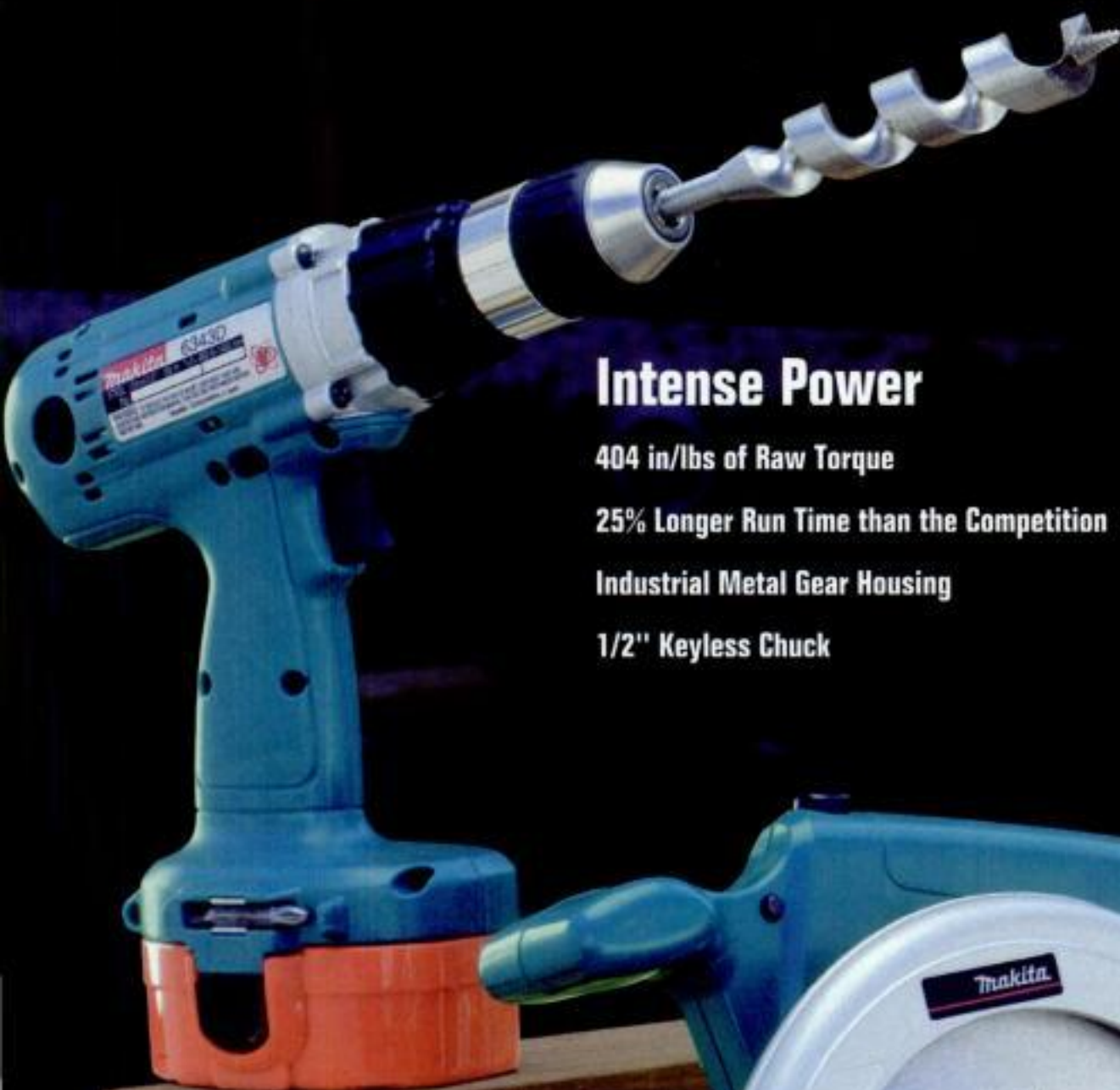
KEY: Y = yes. N = no. OPT = optional. — = not applicable.
 Chuck Type: HX = hex, KL = keyless. SQ = square drive.
 Handle Type: PG = pistol grip, TH = T-handle, RA = right-angle. *May include drill.
 New models in red. ● = Tested model: recommended. (See page 4.)

Continued on page 76.

See page 152
for listing of manufacturers.

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Makita 6223DWE



Metabo BEAT112/2 R&L



Milwaukee 0501-23



Bosch 3615K



Makita 6233DWBE

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 (lb.)	Comments & Features
Makita 6213DWAE	\$364	12	N	450, 1,400	Y	18	KL, 3/8	TH	4.6	
Makita 6213DWBE	349	12	N	450, 1,400	Y	17	KL, 3/8	PG	4.5	NiMH kit.
Makita 6223DWE	272	12	N	700	Y	6	KL, 3/8	TH	3.3	Compact size.
Makita 6312DWG	432	12	N	370, 1,150	Y	6	KL, 1/2	TH	4.3	High-cap. power-display battery.
Makita 6313DWAE	398	12	N	450, 1,400	Y	18	KL, 1/2	TH	4.4	
Metabo BEAT12/2 R+L	311	12	OPT	300, 900	Y	5+	KL, 3/8	PG	4	Aux. side handle.
Metabo BEAT112/2 R+L	349	12	OPT	300, 1,100	Y	9+	KL, 1/2	PG	4.9	Aux. side handle; impulse action.
Metabo BEAT212/2 R+L	397	12	OPT	400, 1,400	Y	9+	KL, 1/2	TH	5.4	Aux. side handle.
Milwaukee 0407-6	354	12	N	350, 1,000	Y	5	KL, 3/8	PG	3.8	2 batteries; steel case.
Milwaukee 0407-22	354	12	N	350, 1,000	Y	5	KL, 3/8	PG	3.8	Includes worklight.
Milwaukee 0415-21	374	12	N	350, 1,000	Y	5	KL, 3/8	PG	3.8	2 batteries; anti-slip grip.
Milwaukee 0431-6	385	12	N	600	Y	—	KL, 1/2	PG	5.6	Aux. side handle.
Milwaukee 0436-6	385	12	N	1,200	Y	—	KL, 3/8	PG	5.2	Aux. side handle.
Milwaukee 0501-21	465	12	OPT	360, 1,100	Y	19	KL, 1/2	PG	4.3	Reversible battery.
Milwaukee 0501-23	377	12	OPT	360, 1,100	Y	19	KL, 1/2	PG	4.3	Reversible battery.
Milwaukee 0502-21	436	12	Y	360, 1,100	Y	19	KL, 3/8	TH	3.8	Reversible battery.
Milwaukee 0502-23	356	12	OPT	360, 1,100	Y	19	KL, 3/8	TH	3.8	Reversible battery.
Panasonic EY6100FQKW	328	12	Y	350, 1,300	Y	22	KL, 3/8	TH	3.8	Compact; lightweight.
Panasonic EY6101FQKW	364	12	Y	350, 1,300	Y	22	KL, 1/2	TH	4.3	Compact; lightweight.
Panasonic EY6901EQKW	430	12	Y	590, 2,000	Y	6	KL, 3/8	TH	4.2	
Porter-Cable 9862	356	12	Y	350, 1,250	Y	21	KL, 3/8	TH	4.3	2 batteries; case.
Porter-Cable 9863	356	12	Y	350, 1,250	Y	21	KL, 3/8	PG	4.3	2 batteries; case.
Ryobi CD125K	99	12	Y	300, 1,000	N	6	KL, 3/8	PG	3.6	2 batteries; case.
Ryobi CTH1202K2	135	12	Y	300, 1,000	Y	6	KL, 3/8	TH	3.8	2 batteries; case.
Ryobi HP1201K	89	12	N	550	N	24	KL, 3/8	TH	3.5	2 batteries; case; level.
Ryobi R10510	149	12	Y	400, 1,400	Y	24	KL, 3/8	TH	3.9	2 batteries; case.
Ryobi RY1201K2	89	12	OPT	550	N	24	KL, 3/8	TH	3.5	2 batteries; case; level.
Skil 2475-02	109	12	N	700	N	6	KL, 3/8	PG	3.5	Case.
Skil 2480-02	109	12	N	700	N	6	KL, 3/8	TH	3.5	1 battery; case.
Skil 2480-04	143	12	N	700	N	6	KL, 3/8	TH	3.5	2 batteries; case.
Skil 2482-01	195	12	N	400, 1,200	N	16	KL, 3/8	TH	3.5	2 batteries; case.
Skil 2482-04	174	12	OPT	400, 1,200	N	16	KL, 3/8	TH	3.5	2 batteries; case.
Skil HD2745-04	238	12	N	400, 1,200	Y	16	KL, 3/8	TH	4	2 batteries; case.
Wagner WB120K-2	90	12	N	550	Y	6	KL, 3/8	TH	3.3	2 batteries; 3-hr. charger.
Black & Decker FS832K-2	129	14.4	Y	900	Y	24	KL, 3/8	TH	3.8	
Bosch 3615K	371	14.4	OPT	400, 1,200	Y	16	KL, 3/8	TH	4.3	2 batteries; single sleeve chuck.
Bosch 3650K	399	14.4	OPT	500, 1,500	Y	16	KL, 1/2	TH	4.8	2 batteries; soft grip.
Bosch 3650K-10	449	14.4	Y	500, 1,500	Y	16	KL, 1/2	TH	4.8	2 batteries; soft grip; case.
Bosch 3655K	399	14.4	OPT	400, 1,400	Y	16	KL, 1/2	PG	4.8	2 batteries; soft grip.
Craftsman 27194	190	14.4	Y	400, 1,400	Y	24	KL, 3/8	TH	4.5	2 batteries; brake; case.
DeWalt DW954K-2	352	14.4	Y	400, 1,250	Y	17	KL, 3/8	TH	4	2 batteries; case.
DeWalt DW990K-2	418	14.4	Y	450, 1,400	Y	17	KL, 1/2	TH	4.9	
DeWalt DW991K-2	398	14.4	Y	450, 1,400	Y	17	KL, 3/8	TH	4.9	Rubber grip & trigger.
DeWalt DW991KQ-2	470	14.4	Y	450, 1,400	Y	17	KL, 3/8	TH	4.9	15-minute charger.

CONVENTIONAL

KEY: Y = yes. N = no. OPT = optional. — = not applicable. Chuck Type: HX = hex, KL = keyless, SQ = square drive. Handle Type: PG = pistol grip, TH = T-handle, RA = right-angle. *May include drill. New models in red. ● = Tested model; recommended. (See page 4.)

[Continued on page 78.](#)

See page 152
for listing of manufacturers.

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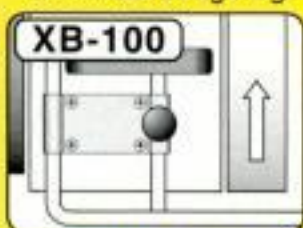
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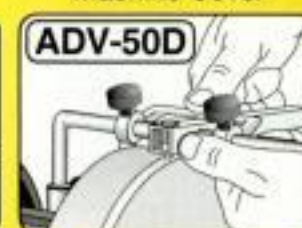
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CIRCLE NO. 100 ON PRODUCT INFORMATION FORM

Cordless Drills



Porter-Cable 9872



Skil 2582-04



Panasonic EY6930FQKW



Craftsman 27199

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 (lb.)	Comments & Features
DeWalt DW996K-2	\$444	14.4	Y	600, 1,750	Y	17	KL, 1/2	PG	5.1	Hammer action; 6,600/19,500 bpm.
Hitachi DS14DV	420	14.4	OPT	350, 1,200	Y	22	KL, 1/2	TH	4.6	2 batteries.
Makita 6233DWAE	410	14.4	N	400, 1,300	Y	17	KL, 3/8	PG	4.4	
Makita 6233DWBE	481	14.4	N	400, 1,300	Y	17	KL, 3/8	PG	4.5	NiMH battery.
Makita 6333DWAE	434	14.4	N	400, 1,300	Y	17	KL, 1/2	PG	4.4	
Metabo BEAT214/2 R+L	437	14.4	OPT	400, 1,400	Y	9+	KL, 1/2	TH	5.9	Aux. side handle.
Milwaukee 0511-21	415	14.4	N	450, 1,250	Y	19	KL, 1/2	PG	4.8	2 reversible batteries.
Milwaukee 0512-21	393	14.4	N	450, 1,250	Y	19	KL, 3/8	TH	3.8	2 batteries.
Milwaukee 0513-21	436	14.4	N	450, 1,250	Y	19	KL, 1/2	PG	5.3	2 batteries; hammer action.
Porter-Cable 9872	415	14.4	Y	450, 1,450	Y	21	KL, 3/8	TH	4.5	2 batteries; case.
Porter-Cable 9873	450	14.4	Y	450, 1,450	Y	21	KL, 1/2	PG	4.5	2 batteries; case.
Ryobi CD145K	139	14.4	Y	320, 1,150	N	6	KL, 3/8	PG	4	2 batteries; case.
Ryobi CTH1442K2	159	14.4	Y	350, 1,300	Y	6	KL, 3/8	TH	4	2 batteries; case.
Ryobi R10520	169	14.4	Y	400, 1,400	Y	24	KL, 1/2	TH	4.5	2 batteries; case.
Skil 2580-04	163	14.4	N	700	N	6	KL, 3/8	TH	4	2 batteries; case.
Skil 2582-01	215	14.4	N	400, 1,200	N	16	KL, 3/8	TH	4	2 batteries; case.
Skil 2582-04	199	14.4	OPT	400, 1,200	N	16	KL, 3/8	TH	4	2 batteries; case.
Wagner WB144K-2	100	14.4	N	650	Y	6	KL, 3/8	TH	3.6	2 batteries; 3-hour charger.
Panasonic EY6230FQKW	382	15.6	Y	450, 1,400	Y	22	KL, 1/2	TH	4.9	Compact size.
Panasonic EY6930FQKW	470	15.6	Y	590, 2,000	Y	6	KL, 1/2	TH	5.1	
Black & Decker FS932K-2	149	18	Y	900	Y	24	KL, 3/8	TH	4.2	
Craftsman 27199	230	18	Y	400, 1,400	Y	24	KL, 1/2	TH	5.5	Aux. handle; 2 batteries.
DeWalt DW995K	454	18	Y	450, 1,400	Y	17	KL, 1/2	TH	5.6	Rubber grip & trigger.
DeWalt DW997K	470	18	Y	650, 1,850	Y	17	KL, 1/2	TH	5.6	Hammer action; 7,150/20,350 bpm.
DeWalt DW998K	470	18	Y	650, 1,850	Y	17	KL, 1/2	PG	5.6	Hammer action; 7,150/20,350 bpm.
Milwaukee 0521-21	475	18	Y	60, 1,800	Y	20	KL, 1/2	PG	5.6	Reversible battery.
Milwaukee 0522-21	470	18	N	600, 1,800	Y	20	KL, 1/2	TH	5.6	Reversible battery.
Ryobi CTH1802K2	179	18	Y	350, 1,300	Y	24	KL, 1/2	TH	5.3	2 batteries; level.
Ryobi R10530	189	18	Y	400, 1,400	Y	24	KL, 1/2	TH	5.7	2 batteries; case.
Skil 2882-01	275	18	Y	400, 1,200	Y	16	KL, 1/2	TH	5	2 batteries; level.
Skil 2882-04	250	18	OPT	40, 1,200	Y	16	KL, 1/2	TH	5	2 batteries; level.
Wagner WB180K-2	150	18	N	680	Y	6	KL, 3/8	TH	3.9	2 batteries; 3-hour charger.
DeWalt DW967K	338	9.6	Y	2,000	Y	0	HX, 1/4	TH	3.7	Electronic torque control.
Hitachi WH8DC2-S	390	9.6	OPT	2,200	Y	—	HX, 1/4	TH	3.1	
Makita 6903VD	339	9.6	N	2,200	Y	—	HX, 1/4	TH	2.9	Angled grip; electronic brake.
Makita 6907DWE	337	9.6	N	2,000	Y	—	SQ, 3/8	TH	2.9	2 batteries.
Makita 6909DWA	378	9.6	N	2,200	Y	—	SQ, 3/8	TH	3.1	
Panasonic EY6588CQ	394	9.6	Y	2,200	Y	—	HX, 3/8	TH	3	Compact; lightweight.
DeWalt DW977K	388	12	Y	2,000	Y	0	HX, 1/4	TH	4	Electronic torque control.
Hitachi WH12DC	633	12	OPT	2,000	Y	—	HX, 1/4	TH	3.7	
Hitachi WH12DK	466	12	OPT	1,500	N	—	SQ, 1/2	TH	5.5	
Makita 6911DWH	418	12	N	1,800	Y	—	HX, 1/4	TH	4	High-cap. battery.

CONVENTIONAL

IMPACT DRIVER

KEY: Y = yes. N = no. OPT = optional. — = not applicable. Chuck Type: HX = hex, KL = keyless, SQ = square drive. Handle Type: PG = pistol grip, TH = T-handle, RA = right-angle. *May include drill.
New models in red. ● = Tested model: recommended. (See page 4.)

See page 152
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 (lb.)	Comments & Features
Makita 6911HDW ●	\$404	12	N	1,800	Y	—	HX, 1/2	TH	4	
Makita 6913DWH	488	12	Y	2,200	Y	—	HX, 1/4	TH	3.5	High-cap. battery w/ power display.
Makita 6914DWA	451	12	N	2,200	Y	—	HX, 1/4	TH	3.8	
Metabo SBEAT 212/2 R+L	434	12	OPT	400, 1,400	Y	5+	KL, 1/2	TH	5.5	Aux. side handle.
Metabo SBEAT 214/2 R+L	468	14.4	OPT	400, 1,400	Y	5+	KL, 1/2	TH	6.1	Aux. side handle.
Panasonic EY6812VQKW	900	24	Y	950	N	—	KL, 1/2	PG	7.9	High-speed rotary hammer.
DeWalt DW955	218	9.6	Y	400, 1,100	Y	0	KL, 3/8	RA	3.9	Sold as bare unit.
DeWalt DW955K	296	9.6	Y	400, 1,100	Y	0	KL, 3/8	RA	3.9	
Hitachi DN10DYK	338	9.6	OPT	800	Y	—	KL, 3/8	RA	2.9	Case.
Makita 6940DW	494	9.6	N	2,000	N	—	HX, 1/4	RA	3.3	Case.
Makita DA391D/DW	341	9.6	OPT	800	Y	—	KL, 3/8	RA	2.9	Plastic case.
Makita DA391DW	369	9.6	N	800	Y	—	KL, 3/8	—	2.9	Sold as kit.
DeWalt DW965	242	12	N	400, 1,200	Y	0	KL, 3/8	RA	4.1	Sold as bare unit.
DeWalt DW965K	324	12	Y	400, 1,200	Y	0	KL, 3/8	RA	4.1	Multi-grip rubber trigger.
Milwaukee 0432-6	489	12	N	400, 900	Y	—	KL, 1/2	PG	7.8	2 batteries.
Milwaukee 0479-6	433	12	N	1,000	Y	—	KL, 3/8	RA	3.8	55° angled head.
Milwaukee 1108-21	537	18	N	500	N	—	KL, 1/2	RA	7.8	
Milwaukee 3108-21	665	18	N	335, 750	N	—	KL, 1/2	RA	10.8	Right-angle head.

KEY: Y = yes. N = no. OPT = optional. — = not applicable. Chuck Type: HX = hex, KL = keyless, SQ = square drive. Handle Type: PG = pistol grip, TH = T-handle, RA = right-angle. *May include drill.
New models in red. ● = Recommended based on AW shop testing.

Cordless Drills



Panasonic EY6588CQ



Milwaukee 0479-6

See page 152 for listing of manufacturers.

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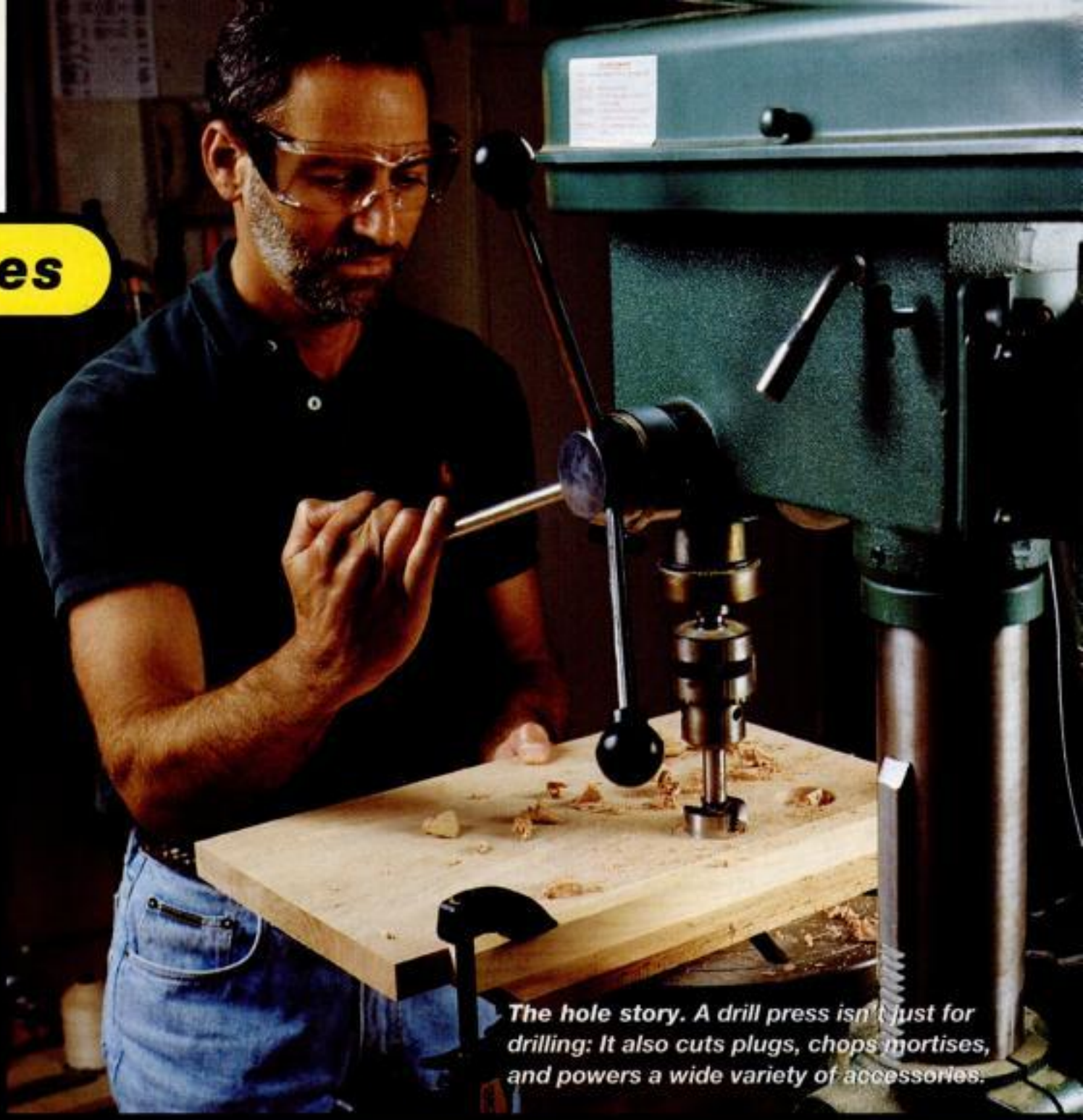
CIRCLE NO. 73 ON PRODUCT INFORMATION FORM

Drill Presses

The main function of the drill press is precision drilling and boring. But it can also power specialty cutters from plug cutters to rotary planers, and it can mortise and drum-sand. All that may not make it the first tool you'd buy, but it means your shop is incomplete without one.

Most drill presses have an adjustable work table, multiple speeds for a variety of bits and materials, and a positive depth-stop mechanism.

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



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

3 Types of drill presses

Benchtop

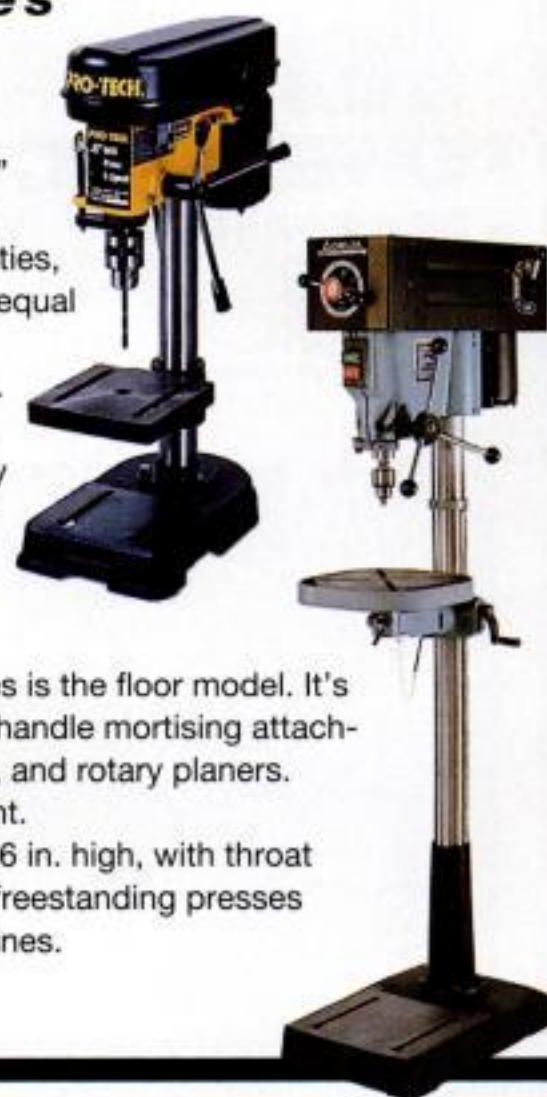
If you think of benchtop tools as half-pint versions of "real" power tools, take another look at benchtop drill presses. Some are bantamweights with sharply diminished capabilities, but others have throat capacities and horsepower ratings equal to some floor models.

Benchtop drill presses stand between 22 and 46 in. high. A large benchtop model will require a permanent location and take up the same space as a floor model. Yes, its ability to handle large or tall work is limited. But if price is important, a benchtop model is worth considering.

Floor Model

For most woodworkers, the first choice among drill presses is the floor model. It's generally more powerful than a benchtop model, so it will handle mortising attachments and larger cutters like circle cutters, rosette cutters, and rotary planers. Moreover, its table has a larger range of vertical adjustment.

Floor models listed in the chart on page 82 stand 52 to 76 in. high, with throat capacities of 6½ to 11 in. Thanks to their small footprint, freestanding presses demand less floor space than most other stationary machines.



Features to consider

Speed Control

A plain-vanilla, five- or six-speed drill press is adequate for most operations. But if you expect to do a lot of drum sanding, circle cutting, or rosette work, having a wider range of speeds will allow you to tailor cutter speed to your material, minimizing 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 changing the drive belts' positions on the pulleys. (See photo, below.)

Quill Travel

Quill travel, sometimes called "stroke length," tells how deep a hole you can drill in a single stroke. This distance varies from 1⁷/₈ in. on the smallest benchtop models to 6 in. on the largest floor model. For drilling thick stock, you'll want a quill travel of 4 in. or more.



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.

Work Table

A large table supports oversize work and provides 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, above.)

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, below.) 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.



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

Radial

The model of choice for chair-makers and others who drill a lot of angled or compound-angled holes is the radial drill press.

On a radial drill press, the head—which includes the motor, quill, and pulleys—is mounted on a horizontal tube, called a ram, which passes through a yoke atop the column. This design makes the head infinitely adjustable. It can move in and out on the column (like a radial-arm saw), pivot around the column, and tilt left and right. You can bore at virtually any angle you want—even horizontally.

Radial drill presses have larger throat capacities than most conventional models—up to 18 in. Both floor and benchtop models are available.



Options worth having

Sanding drums. Turn your drill press into a spindle sander. A set of these drums, each one a different diameter, lets you smooth all kinds of curved work.

Cross-slide vise. The safest way to hold small workpieces is in a vise. This special drill-press accessory works with the table's slots to easily and precisely position your work.

Mortising attachment. This mortise-cutting tool consists of a square, hollow chisel with an auger bit inside. When it is plunged into the workpiece, the bit drills a hole and the chisel simultaneously cuts four sharp, square corners. The result: a square hole! Boring several square holes side by side produces a rectangular mortise.

The complete mortising attachment includes a special yoke that bolts to the quill without interfering with the chuck. The bit is held in the chuck, while the hollow chisel is held by the yoke. A fence bolted to the table holds the workpiece for mortising.

Drill Presses



Delta 11-990



Powermatic 1140-A



Ryobi WDP1850

BENCHTOP

FLOOR

Brand & Model	List Price	Throat Capacity (in.)	Chuck Capacity (in.)	Quill Travel (in.)	Spindle Speed (rpm)	Rack & Pinion Table Adj.	HP	Weight (lb.)	Comments & Features
Craftsman 21908	\$120	4	1/2	2	620 - 3,100	N	1/8	48	Comes with fence.
Delta 11-950	156	4	1/2	2	620 - 3,100	N	1/4	49	
Grizzly G4014	90	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	1/8	42	
Pro-Tech 12018	119	4	1/2	2	690 - 3,000	N	1/4	40	
Tradesman 8050S	99	4	1/2	2	620 - 3,100	N	1/4	54	3-in. vise incl.; switch up front.
Woodtek 829785	99	4	1/2	2	620 - 3,100	N	1/4	40	Table tilts.
Reliant JJDP3	100	4 3/32	1/2	1 7/8	700 - 3,000	N	1/4	43	
Craftsman 21910	180	5	1/2	2 3/8	540 - 3,600	Y	1/4	73	Comes with fence.
Delta 11-980	195	5	1/2	2 1/4	620 - 3,100	Y	1/4	70	
Jet JDP-10	223	5	1/2	2 1/2	540 - 3,600	N	1/3	70	
Ryobi DP100	160	5	1/2	2 3/8	540 - 3,600	Y	1/4	68	
Tradesman 8062S	119	5	1/2	2	620 - 3,100	N	1/4	59	3-in. vise incl.; switch up front.
Delta 11-990	237	6	1/2	2 3/8	620 - 3,100	Y	1/3	78	
Tradesman 8065S	169	6	1/2	2 1/4	620 - 3,100	Y	1/2	80	
Reliant DD50	160	6 1/2	1/2	3	700 - 3,000	Y	1/3	110	
Star S4016	200	6 1/2	5/8	3	195 - 3,000	Y	3/4	95	16 speeds.
Penn State DPT	180	6 3/4	5/8	3 1/8	600 - 3,720	Y	1/2	110	Worklight.
Bridgewood BW-1412B	219	7	1/2	3 5/16	480 - 2,120	Y	1/2	138	
Grizzly G1199	239	7	5/8	3	250 - 3,100	Y	1/2	140	
Grizzly G4008	160	7	5/8	3 1/4	210 - 2,720	Y	1/2	155	Mortising attachment available.
Jet JDP-14J	343	7	1/2	3 3/8	460 - 2,500	Y	1/2	132	Worklight.
Jet JDP-14M	399	7	5/8	3 1/4	200 - 3,630	Y	1/2	132	Worklight.
Powermatic 1140-A	381	7	1/2	3 1/8	280 - 3,280	Y	3/4	150	
Tradesman 8075S	199	7	5/8	3 3/8	195 - 3,630	Y	3/4	121	16 speeds; switch up front.
General 34-02	760	7 1/2	1/2	4 1/2	460 - 4,910	N	—	110	Motor not incl.
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.
General Int'l 75-100	630	8 1/2	5/8	3 1/4	340 - 2,800	Y	3/4	180	
Ryobi WDP1850	550	9 1/4	1/2	3 1/3	500 - 3,000*	N	1/4	134	Comes with fence; rack & pinion head adjustment.
Star S4017	255	6 1/2	5/8	3	195 - 3,000	Y	3/4	125	16 speeds.
Transpower DP16	195	6 3/4	5/8	3 1/8	300 - 3,700	Y	3/4	130	
Delta 14-070	395	7	5/8	3 3/8	250 - 3,000	Y	1/2	157	
Grizzly G1200	300	7	5/8	3	250 - 3,100	Y	1/2	150	
Grizzly G4009	239	7	5/8	3 1/4	210 - 2,720	Y	1/2	155	Mortising attachment available.
Jet JDP-14JF	412	7	1/2	3 3/8	460 - 2,500	Y	1/2	156	Worklight.
Jet JDP-14MF	455	7	1/2	3 1/4	200 - 3,630	Y	3/4	167	Worklight.
Jet JSL-14DP	279	7	1/2	3 1/4	250 - 3,100	Y	1/3	130	
Powermatic 1140-A	413	7	1/2	3 1/8	280 - 3,280	Y	3/4	170	
Tradesman 8100S	249	7	5/8	3 3/8	195 - 3,630	Y	3/4	142	16 speeds.
Craftsman 22915	300	7 1/2	5/8	3 1/8	250 - 3,100	Y	1/2	166	12 speeds; comes with fence; worklight.
General 34-01	989	7 1/2	1/2	4 1/2	460 - 4,910	N	3/4	200	Split head to adjust quill.
General 34-01-M1	760	7 1/2	1/2	4 1/2	460 - 4,910	N	3/4	200	
Powermatic 1150-A	2,329	7 1/2	1/2	6	475 - 4,800*	Y	1	325	
Ridgid DP1500	299	7 1/2	5/8	3 5/16	250 - 3,100	Y	1/2	158	
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	5/8	3 3/8	250 - 3,000	Y	3/4	194	
Delta 17-925	1,059	8 1/4	1/2	6	150 - 3,200*	Y	3/4	230	Quick-stop depth adjustment.
Tradesman 8105S	349	8 1/4	5/8	3 1/2	250 - 3,000	Y	3/4	183	12 speeds.
Woodtek 816805	369	8 1/4	5/8	3 1/4	250 - 3,000	Y	3/4	165	
Bridgewood BW1758FA	329	8 1/2	5/8	3 1/8	350 - 3,900	Y	3/4	172	

KEY: Y = yes, N = no, — = not applicable. *Model has continuous variable speed.
New models in red. ● = Tested model: recommended. (See page 4.)

See page 152
for listing of manufacturers.

Brand & Model	List Price	Throat Capacity (in.)	Chuck Capacity (in.)	Quill Travel (in.)	Spindle Speed (rpm)	Rack & Pinion Table Adj.	HP	Weight (lb.)	Comments & Features
Craftsman 22917	\$400	8½	5/8	3¼	200 - 3,630	Y	¾	187	Comes with fence; worklight.
General Int'l 75-200	660	8½	5/8	3¼	340 - 2,800	Y	¾	200	
Jet JDP-17MF	477	8½	1½	4¾	200 - 3,630	Y	¾	189	Worklight.
Lobo DP-186F	349	8½	5/8	3½	190 - 2,640	Y	¾	170	
Powermatic 1170	481	8½	5/8	3¼	190 - 3,500	Y	1	195	Worklight.
Reliant DD55	300	8½	5/8	3¼	340 - 2,800	Y	¾	194	
Transpower DP17	225	8½	5/8	3¾	240 - 3,800	Y	1	178	Worklight.
Grizzly G1201	495	9	5/8	5	150 - 2,470	Y	¾	300	#3 Morse taper spindle; worklight.
Craftsman 22920	600	10¼	¾	4½	150 - 4,200	Y	1	282	12 speeds; comes with fence; worklight.
Jet JDP-20MF	871	10¼	¾	4¾	150 - 4,200	Y	1½	288	Worklight.
Woodtek 816812	689	10½	5/8	4¾	180 - 4,200	Y	1	346	Free mortising attachment.
Powermatic 2000	823	11	5/8	4½	130 - 2,770	Y	1½	328	Worklight.
Grizzly G5046	250	13	1½	4	620 - 3,100	N	¼	65	
Tradesman 8090S	179	13	1½	4	620 - 3,100	N	¼	62	Head tilts 45° left, 90° right.
Delta 11-090	417	16	1½	3¾	580 - 3,450	N	⅓	82	Head tilts 90° left, 90° right.
Craftsman 22934	500	17	5/8	3¾	250 - 3,100	Y	½	165	Floor model; head tilts 90° left, 45° right.
Craftsman 21934	300	17½	1½	3¾	540 - 3,600	Y	⅓	91	Benchtop model; head tilts 90° left, 45° right.
Lobo DP-36RL	399	18	5/8	3½	250 - 3,600	Y	½	105	Benchtop model.
Woodtek 907071	449	18	5/8	3	310 - 3,640	Y	½	152	Head tilts 90° left, 50° right.

KEY: Y = yes. N = no. — = not applicable. *Model has continuous variable speed.
New models in red. ● = Recommended based on AW shop testing.

Drill Presses



Craftsman 22920



Grizzly G5046

See page 152 for listing of manufacturers.

AWW/W 98 9/10

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CIRCLE NO. 95 ON PRODUCT INFORMATION FORM

Dust Collectors

Wood dust is more than a nuisance—it's also a health hazard. Long-term exposure to wood dust has been linked to sinusitis, asthma, emphysema, and other respiratory problems. With a dust collector, your shop will be a cleaner, healthier, and more pleasant place to work.

Dust collectors vary in cost and capacity. At the low end, a shop vacuum can suck dust from a small machine. In an elaborate setup, the chips and dust that planers and jointers generate are swept away by cyclone pre-collectors, leaving open floors and clear air. Even super-fine dust can be filtered by a continuous-operation ambient air cleaner.

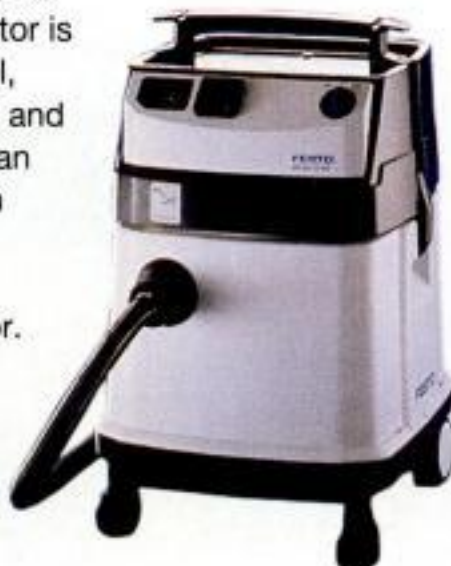


Keeping it clean. Dust and chips stay off the floor and out of the air, thanks to this mobile single-stage dust collector.

5 Types of dust collectors

Shop Vacuums

For light-duty dust collection from a router or sander, you can use a shop vacuum. But even in a home shop, it is a help, not a solution. With its modest airflow and small-diameter hose, a shop vacuum is simply overwhelmed by planer or jointer debris. Furthermore, its universal motor is less powerful, less durable, and far noisier than the induction motor in a dedicated dust collector.



Single Stage

The next step up in both price and performance is the single-stage blower-and-bag unit. Typically, it has a pair of bags downstream from the blower. A lower bag captures large debris that drops out of the airstream; an upper bag filters fine dust from the airstream. One of the more powerful models can be used for centralized dust collection; connect it to all of your major machinery with a ductwork system.

This design's drawback is that everything—including large debris—passes directly through the impeller, causing wear on the fan-like parts.



Features to consider

Portability

Unless your shop has ductwork, you'll want a roll-around collector that you can attach to individual machines as needed. Many portable models may be used as central dust collectors when you're ready to run the ductwork.

Airflow

Dust collectors are rated by the volume of air they can move (cfm or cubic feet per minute) at a given static, or constant, pressure (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, upper right.) 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

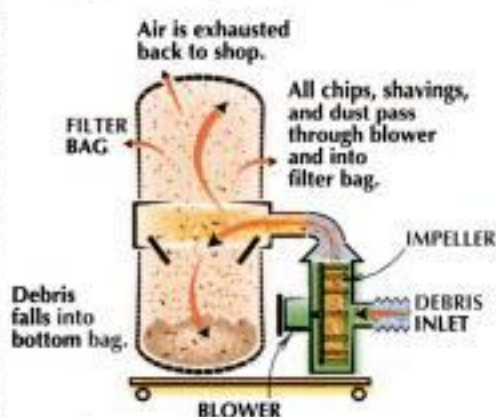
Air volume requirements in cubic ft. per minute (cfm)

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

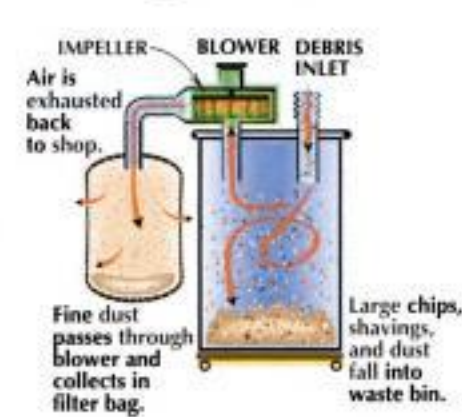
Filter-Bag Efficiency

Filter bags vary in efficiency. The typical bag traps particles down to about 50 microns. The most efficient capture 10-micron particles, but super-efficient bags with a very fine weave can capture particles as small as 1 micron.

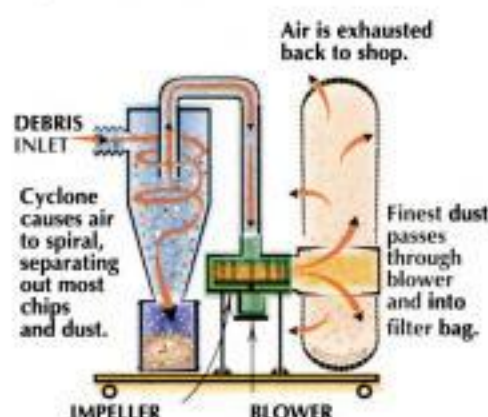
Single-Stage Collector



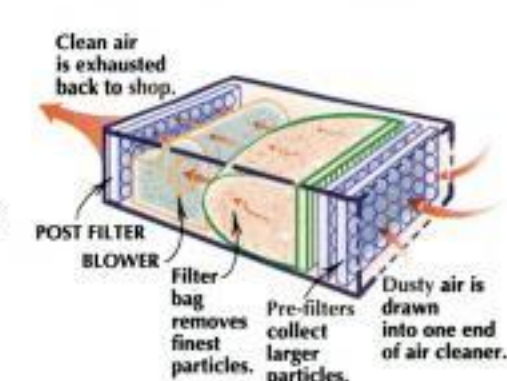
Two-Stage Collector



Cyclone Pre-Collectors



Ambient Air Cleaners



Two Stage

The blower of a two-stage collector is usually mounted on top of a collection drum. Large chips fall into the drum before they reach the impeller, thus reducing wear on this critical component. Fine dust collects in the filter bag.

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

Cyclone Pre-Collectors

A tall, cone-shaped metal housing distinguishes the cyclone pre-collector. The housing's shape creates a vortex that efficiently separates the chips and debris from the air, depositing all but the finest dust in a waste container at the bottom of the cone. Only the finest dust passes through the blower and into the filter bag.

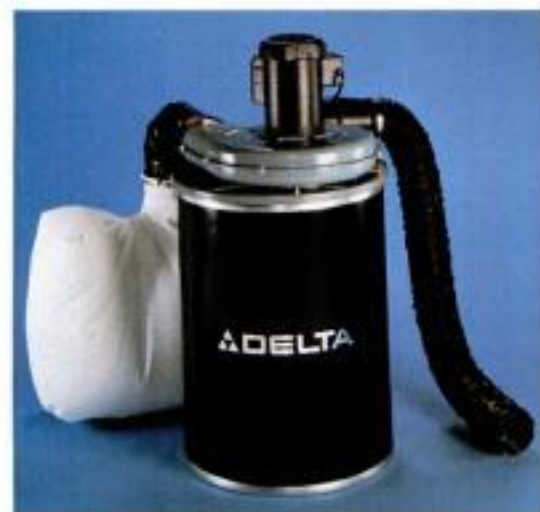
Professionals favor cyclone pre-collectors because they handle large volumes of debris. They're ideal for central dust-collection systems in medium- to large-size shops.



Ambient Air Cleaners



Hung from the ceiling, an ambient air cleaner traps the fine, airborne dust particles that a dust collector may miss. Typically, a blower driven by a continuous-duty motor pulls air through a series of filters to trap these particles.



Dust Collectors



Tradesman 9992



Grizzly G1163



Star S3810

SINGLE STAGE

Brand & Model	List Price	HP	Max. cfm	Max. static pressure (in. of water)	Sawdust Cpy. (cu. ft.)	No. of Inlet Ports, Port Dia. (in.)	Volts	Weight (lb.)	Comments & Features
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	Incl. 0.4-micron dust bag that fits on 55-gal. drum.
Jet JSL-610	199	3/4	610	8.5	2.1	1, 4	115	80	4-caster base.
Tradesman 9992	249	3/4	453	6.5	1.5	1, 4	115	64	Wheels incl.
Woodtek 911047	160	3/4	250	NA	20 gal.	1, 4	115	18	
Belsaw MC-CT-50S	189	1	700	5.5	2	1, 4	115	46	Wheels incl.; wall mount.
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	169	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.
Delta 50-840	270	1	650	8.5	2.1	1, 4	115/230	57	Wheels incl.; balanced, curved impeller.
Grizzly G1028	265	1	610	4.5 @ 4	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	30-micron bag; steel impeller.
Lobo DC-1190	219	1	710	8.5	2.8	1, 4	115	86	Wheels incl.; steel impeller.
North State CT-50S	200	1	700	5.5	3.5	2, 4	115	80	Wheels incl.
Penn State DC1-5	220	1	700	5.5	2.2	2, 4	115/230	66	Wheels incl.; 8-ft. hose.
Reliant NN620	160	1	500	NA	1.5	1, 4	115	45	
Reliant NN720	200	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	Wheels incl.
Seco UFO-70	209	1	655	5.5	2.5	1, 4	115/230	80	Wheels incl.
Seco UFO-70F	225	1	655	5.5	2.5	1, 4	115/230	88	Wheels incl.
Seco UFO-80	230	1	655	5.5	2.5	1, 4	115/230	88	Wheels incl.; floor sweeper standard.
Seco UFO-90	167	1	655	5.5	2.5	1, 4	115	75	Wheels incl.; opt. 5-micron bag.
Star S3810	195	1	700	4.5	2.2	1, 4	115/230	80	Wheels incl.; opt. 2-micron bag.
Star S3811	175	1	700	4.5	1.5	1, 4	115/230	51	Wheels incl.; opt. 2-micron bag.
Sunhill UFO-90	189	1	610	5.5	2.5	1, 4	115/230	70	Wheels incl.
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	Wheels incl.; balanced, curved impeller.
Penn State DC2-5	310	1 1/2	900	8.5	5.8	2, 4	115/230	130	Wheels incl.; 50-ft. hose.
Penn State DC3-5	215	1 1/2	760	8.5	1.5	1, 4	115/230	46	Wheels incl.; 8-ft. hose.
Powermatic 73	480	1 1/2	1,200	8	3.5	2, 4	115	125	Wheels incl.; floor sweep.
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	Wheels incl.; sound-erase baffle.
Grizzly G1029	279	2	1,182	9.6 @ 5	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	Wheels incl.; 30-micron bag; steel impeller.
Lobo DC-101	379	2	1,290	9.1	9.5	2, 4	115/230	155	Wheels incl.; steel impeller.

KEY: NA = information not available. *User supplies waste drum.
 New models in red. ● = Tested model; recommended. (See page 4.)

See page 152
for listing of manufacturers.

Brand & Model	List Price	HP	Max. cfm	Max. static pressure (in. of water)	Sawdust Cpy. (cu. ft.)	No. of Inlet Ports, Port Dia. (in.)	Volts	Weight (lb.)	Comments & Features
SINGLE STAGE									
Makita 410	\$763	2	307	NA	7	1, 2 ^{7/8}	115	20.4	Designed for portable benchtop tools.
Murphy-Rodgers MRT-5A	1,110	2	800	6.5	7.4*	1, 5	230/460	110	Wheels opt.
North State UFO-101	295	2	1,182	9.5	5.4	3, 4 & 5	115/230	140	Wheels incl.; steel impeller.
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	115/230/460	140	Wheels incl.; opt. 5-micron bag.
Star S3820	295	2	1,182	8.3	5.2	1 or 2, 4 or 5	230	145	Wheels incl.; opt. 2-micron bag.
Sunhill UFO-101	299	2	1,182	7.5	5.2	2, 4	115/230	143	Wheels incl.
Transpower DC2000	285	2	1,200	5.6	4	2, 4	115/230	143	
Woodtek 805930	399	2	790	8.3	5.2	2, 5	230	123	Wheels incl.
Penn State DC250	355	2 ^{1/2}	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	823	3	2,100	18.1	12.5	4, 4	230	200	Wheels incl.; balanced, curved impeller.
Grizzly G1030	455	3	1,883	5.8 @ 6	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	Wheels incl.; 30-micron bag; steel impeller.
Lobo DC-102	519	3	1,883	9.5	10.5	3, 4	115/230	198	Wheels incl.; steel impeller.
Lobo DC-103	399	3	1,700	9.5	10.5	2, 4	115/230	160	Wheels incl.; steel impeller.
North State UFO-102B	485	3	1,883	9.5	5.4	4, 5 & 6	230	180	Wheels incl.; steel impeller.
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	Wheels incl.; single or 3 phase.
RBI 1900	499	3	1,900	9.2	7.4	1, 6	230	110	
Reliant NN830	500	3	1,883	9.1	10.5	3, 4	230	170	
Seco UFO-102B	455	3	1,883	9.1	10.5	3, 4	115/230/460	181	Wheels incl.; opt. 5-micron bag.
Star S3830	495	3	1,885	5.8	10.4	1 or 3, 4 or 6	230	165	Wheels incl.; opt. 2-micron bag.
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.
Transpower DC3000	335	3	1,850	5.6	5.3	3, 4	115/230	178	
Transpower DC4000	445	3	1,968	5.8	6.7	4, 4	115/230	250	
Woodmaster 1033	499	3	2,688	9.2	*	1, 7	230	140	Incl. 0.4-micron dust bag that fits on 55-gal. drum.
Woodtek 864381	489	3	1,180	8.6	10.5	2, 6	230	194	Wheels incl.
Grizzly G5954	1,000	5	3,512	9.7	42.4	4, 8	230	400	
Lobo 5 DC-80	1,490	5	3,600	13	18.7	4, 4	230/460	450	Wheels incl.; steel impeller.
TWO STAGE									
RBI 4	499	1/2	450	7	2	1, 4	115	120	
RBI 100	399	1/2	450	3	7	1, 4	115	62	
Delta 50-179	566	3/4	580	7	4.7	1, 4	115/230	53	Wheels incl.; opt. 1-micron bag.
Delta 50-180	741	1	700	4.5	7.4*	1, 5	115/230	72	Wheels, 1-micron bag opt.
Dust Boy 1002	515	1	750	7.0	9	1, 6	115/230	60	Wheels, 1-micron bag opt.
General Int'l 10-010	435	1	NA	5.5	20 gal.	1, 4	115	76	
Festo Tooltechnic SR201E-AS	636	1 ^{7/10}	132	NA	2	1, 2 ^{3/16}	115/230	32	Tool triggered.

KEY: NA = information not available. *User supplies waste drum.
 New models in red. ● = Tested model: recommended. (See page 4.)

Dust Collectors



Powermatic 73



Grizzly G1030



RBI 100

See page 152
 for listing of manufacturers.

Dust Collectors



Oneida Air 2 HPTF



Delta 50-900

Ambient Air Cleaners



Hartville Tool PureAir



JDS Air-Tech 10-16

Brand & Model	List Price	HP	Max. cfm	Max. static pressure (in. of water)	Sawdust Cpy. (cu. ft.)	No. of Inlet Ports, Port Dia. (in.)	Volts	Weight (lb.)	Comments & Features
TWO STAGE									
Delta 50-181	\$987	2	1,100	8.5	7.4*	1, 6	230	97	Wheels, 1-micron bag opt.
Dust Boy 1004	565	2	1,100	8.5	9	1, 6	115/230	75	Wheels, 1-micron bag opt.
General Int'l 10-110	695	2	NA	8.3	42 gal.	2, 4	230	124	
RBI 400	999	2	1,100	8.5	7	1, 4	230	100	
Delta 50-182	1,144	3	1,300	10	7.4*	1, 6	230/460	113	Wheels, 1-micron bag opt.
General Int'l 10-210	1,200	3	NA	8.7	83 gal.	3, 4	230	164	
CYCLONE									
Dustvent 12T 1½	1,780	1½	1,000	8	7.3*	1-6, 6-8	115/230	225	
Oneida Air 1½ HP	786	1½	700	10	5 or 8	1, 6	115/230	105	Wheels opt.; drum incl.
Penn State Cyclone CYDC3	499	1½	760	8.5	*	1, 5	115/230	90	Trash container not incl.
Aget Dustkop 11 HS 51	1,540	2	1,200	6.6	7.4	1, 6	115/230	400	Filter incl.
Blue Tornado 102C	1,100	2	1,370	10.6	14.8	1, 6	230	245	Cast-aluminum blower housing & impeller.
Murphy-Rodgers 6A2-D	1,630	2	900	6.5	7.4*	1, 6	230/460	460	
Oneida 2 HP Industrial	985	2	900	10	*	1, 7	115/230	200	Aluminum impeller.
Oneida Air 2 HPTF	985	2	900	10	*	1, 7	115/230	200	Impeller/blower and cyclone are one unit.
Penn State Cyclone CYDC250	599	2½	1,350	9.5	*	1, 5	230	140	Trash container not incl.
Blue Tornado 103C	1,500	3	2,140	12.3	14.8	1, 7	230	320	Cast aluminum blower housing & impeller.
Delta 50-900	2,132	3	1,780	9 @ 200 cfm	14.8*	1, 8	230/460	350	2-stage cyclone tower.
Dustvent 15T3	2,030	3	1,600	15	7.3*	1-6, 8-9	230	375	
Dustvent 19T3	2,760	3	1,800	12	7.3*	1-6, 9-11	230	680	
Oneida Air 3 HP Industrial	1,185	3	1,350	10	*	1, 8	230/460	250	Impeller is separate unit.
Oneida Air 3 HPTF	1,185	3	1,350	10	*	1, 8	230/460	250	Impeller/blower and cyclone are one unit.
Oneida Air 5 HP	2,090	5	2,000	14	*	1, 10	230/460	550	Fan/cyclone can be placed outside.
Penn State Cyclone	270	Fits 1 -2½	Fits 700 -1,350	NA	*	1, 5	NA	40	Motor blower not incl.

Brand & Model	List Price	Airflow (cfm)	No. of Filters	Dust Removal Efficiency	Mounting Options	Cabinet LxWxD (in.)	Weight (lb.)	Comments & Features
Craftsman 16995	\$180	200	2	93% @ 5 mic.	B, C	NA	10	Air filtration (plastic).
Craftsman 29972	250	300	2	95% @ 5 mic.	B, C	33 x 20 x 11	10	Air filtration (metal).
Woodtek 923838	200	340	2	.5 micron	B, C, W	30 x 12 x 12	45	Washable filters.
Grizzly G4702	250	460	2	98% @ 3 mic.	C	30 x 24 x 12	37	
Hartville Tool PureAir	249	460	3	99% @ 5 mic., 94% @ 1 mic.	B, C, W	20 x 24 x 12	30	3-stage filter.
Jesada Tools ACS-100	439	460	3	98% @ 3 mic.	B, W	12 x 24 x 20	30	
Woodworker's Supply 897226	269	460	3	.5 micron	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.
Grizzly G5955	180	510	2	98% @ 3 mic.	C	30 x 24 x 12	40	
Woodtek 923859	250	510	2	.5 micron	B, C, W	11½ x 11½ x 20	30	Washable filter bag; remote control.
Penn State PSI DC720	199	720	1	35% @ 1 mic.	B	23 x 10¾ x 8	25	Benchtop model.
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.
Penn State PSI AC2500	999	2,500	2	65% @ 1 mic.	B, C	24 x 24 x 54	160	
JDS Air-Tech 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. washable electrostatic filter.
JDS Air-Tech 350	259	200 to 800	3	99% @ 5 mic., 80% @ 1 mic.	B, C	34 x 24 x 12	62	2 speeds w/ variable speed control.
JDS Air-Tech 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. washable electrostatic filter.

KEY: Mounting Options: B = bench, C = ceiling, W = wall. NA = information not available.
New models in red. ● = Tested model; recommended. (See page 4.)

See page 152
for listing of manufacturers.

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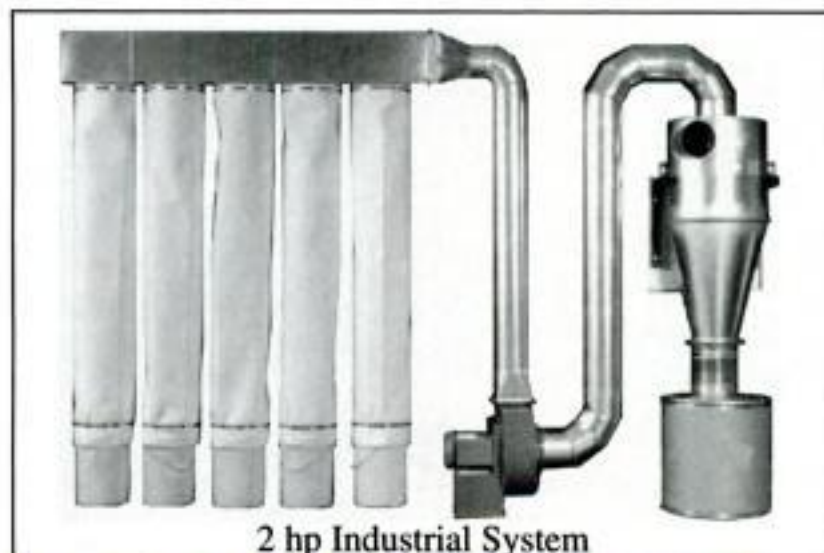
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CIRCLE NO. 69 ON PRODUCT INFORMATION FORM

Jigsaws

With its proficiency at cutting curves and irregular shapes, the jigsaw is a versatile performer both in the shop and on the jobsite. It can make cuts no bandsaw can make, because it doesn't have a limited throat capacity. With a jigsaw, it's possible to saw into workpieces of any width or length.

You take the jigsaw to the workpiece, not the other way around as with a bandsaw or scrollsaw. With a long blade, a jigsaw can make cuts in boards up to 3 in. thick.

A 3.5-amp motor has plenty of moxie for typical cutting chores. With the right blades you can cut wood, laminates, plastic, and metal. With a tilting base, jigsaws can also make bevel cuts.

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



3 Types of jigsaws

Top Handle

By far the most common of the jigsaw types, this design has a handle loop positioned above and in line with the motor. Typically, a trigger switch is incorporated into the handle. Those who favor this style say it is more comfortable and increases control when cutting thick or dense materials.

Barrel Grip

The barrel-grip jigsaw is simply a unit without a handle. To operate it, you grip the motor housing, which is easy if your hand is large enough. The switch is sometimes placed on the top or bottom of the housing; on some models it's on the left side, readily accessible to a right-hander's thumb. Those who favor the barrel-grip design contend that having the hand low and behind the blade makes it easier to feed the saw aggressively for fast and efficient cuts.



Features to consider

Orbital Blade Action

When the jigsaw was introduced, the blade cut only with a "straight-line" up-and-down action. It's best for smooth, tearout-free cutting. In recent years, an orbital cutting action has been added. In this mode, the blade moves slightly forward on the upstroke and backward on the downstroke for more aggressive cutting. On most models you can switch the orbital action on or off, and on some, you can choose the degree of orbital action.

Stroke Length

The maximum vertical distance the blade travels is the stroke. A longer stroke offers better chip clearance and allows faster cutting.

Speed Control

Variable speed lets you open it up for fast cuts, but slow it down when cutting thin or delicate woods. And you can slow it way down for cutting plastic or metal.

Blade Guides

This feature promotes accuracy and reduces blade breakage by limiting its side-to-side and rearward deflection. Not all models have a blade guide, particularly models with a scrolling head.

Baseplate

Supporting the saw while keeping the blade at a fixed angle to the work is the job of the baseplate. Look for one that won't flex or loosen during operation. An adjustable baseplate should have detents for stops at 45° and 90°. (See photo.)

In-Line

This one-of-a-kind jigsaw—only Bosch markets the in-line style—is a hybrid of the jigsaw and the reciprocating saw. The blade orientation is parallel to the motor armature, rather than perpendicular to it. This feature allows it to get into places most other jigsaws can't. But its configuration and tiny baseplate make it less accurate than conventional jigsaws.



Blade Mount

Several different blade-mounting designs are used on jigsaws. Most models will accept universal-type blades, but some do require special blades.

How the blade, regardless of type, is mounted to the jigsaw varies from model to model. Some have "tool-free" or quick-release mechanisms. (See photo.) On most saws, a setscrew must be loosened to release and replace the blade.

Scrolling Head

Some jigsaws allow you to rotate the blade without moving the saw body by turning a top-mounted knob. This feature lets you make fairly intricate scrollcuts.

Dust Control

Although jigsaws don't generate a lot of dust, the chips collect in front of the blade, obscuring the cutline. Many models have a chip blower to clear them. Some of the latest models have vacuum ports so the saw can be connected to a shop vacuum.



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.

Options worth having

Extra blades. Stock up on the blades that are used and/or break most often. Stick with bimetal blades; though they're more expensive than high-speed steel ones, they cut better and last longer.

Edge guide with circle cutter. This guide attaches to the jigsaw base to guide straight cuts parallel to an edge. It can also be used as a trammel to guide circular cuts.

The cordless option. When you're working outside—or where a cord will be in the way—a cordless jigsaw is handy, though it has less power than a plug-in model.

Jigsaws



Bosch 1589EVS



Craftsman 17228



DeWalt DW321K



Makita 4304T



Milwaukee 6276-6

See page 152
for listing of manufacturers.

Brand & Model	List Price	Type	Blade Mount Type	Blade Guide	Stroke Length (in.)	Cuts per Minute	Amps	Dust Control	Weight (lb.)	Comments & Features
Black & Decker JS200	\$30	TH	U	Y	1 1/16	0 - 3,200	3.2	CB	4	
Black & Decker JS350	50	TH	U*	Y	1 1/16	800 - 3,200	3.7	CB, VP	4	
Bosch 1581AVS	260	TH	B	Y	1	500 - 3,100**	5	CB	5.5	3 blades.
Bosch 1581AVSK	266	TH	B	Y	1	500 - 3,100**	5	CB	5.5	Case incl.
Bosch 1584AVS	296	BG	B*	Y	1	500 - 3,100**	5	CB	5.5	No case; anti-splinter insert; 3 blades.
Bosch 1584AVSK	303	BG	B*	Y	1	500 - 3,100**	5	CB	5.5	Case incl.; 3 blades; anti-splinter insert.
Bosch 1587AVS	296	TH	B*	Y	1	500 - 3,100**	5	CB	5.5	No case; 3 blades; anti-splinter insert.
Bosch 1587AVSK	303	TH	B*	Y	1	500 - 3,100**	5	CB	5.5	Case incl.; 3 blades; anti-splinter insert.
Bosch 1588EVS	306	BG	B*	Y	1	500 - 3,000**	6	CB	4.9	No-mar overshoe.
Bosch 1588EVSK	313	BG	B*	Y	1	500 - 3,100**	6	CB, VP	4.9	Case incl.
Bosch 1589EVS	306	TH	B*	Y	1	500 - 3,100**	6	CB	5.1	No case.
Bosch 1589EVSK	313	TH	B*	Y	1	500 - 3,100**	6	CB, VP	5.1	Case incl.
Bosch 3294EVS	226	IL	B*	Y	5/8	300 - 3,800**	3.6	—	3.2	Also use as rasp, wire brush, or fiber brush, with accessories.
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; blade storage.
Craftsman 17207	50	TH	U	N	5/8	0 - 3,000	2.5	CB	5	Scrolling head; dual-throat base; blade storage.
Craftsman 17211	80	TH	U	N	3/4	0 - 3,000	2.5	CB	5.4	Auto scrolling head.
Craftsman 17228	80	TH	U	Y	3/4	0 - 3,000**	4	CB, VP	5.2	Blade storage.
Craftsman 27251	140	TH	U	Y	1	0 - 3,100**	4.5	—	6.2	
DeWalt DW313	109	TH	U	Y	1	3,100**	4.5	CB	6.2	Case incl.
DeWalt DW318K	224	TH	U	Y	1	0 - 3,100**	4.5	—	6.2	Case incl.
DeWalt DW321K	300	TH	B, U*	Y	1	500 - 3,100**	5.8	CB	6.4	Toolless base adj.; case incl.
DeWalt DW323K	300	BG	B, U*	Y	1	500 - 3,100**	5.8	CB	6.4	Case incl.
Fein Aste 639	623	BG	U	N	13/16	1,050 - 2,600	3.9	VP	4.8	Adj. base.
Festo PS2E+	292	BG	B	Y	1	1,200 - 3,100**	4	CB, VP	4.9	16-ft. cord.
Freud FJ65	151	TH	B, U	Y	3/4	0 - 3,000**	3.2	VP	3.4	3 orbital settings.
Freud FJ85	230	TH	B, U	Y	1	0 - 3,000**	4.8	VP	5.4	4 orbital settings.
Hitachi CJ65V2K	329	TH	B, U, WU	Y	1	700 - 3,200**	5.2	CB	5.5	Case incl.
Hitachi CJ65VA2K	329	BG	B, U, WU	Y	1	700 - 3,200**	5.2	CB	5.3	Case incl.
Makita 4301BV	292	TH	B, WU	Y	1	0 - 3,100**	3.5	CB	6	Steel case incl.
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	—	5.1	Anti-splinter insert.
Makita 4304T	329	TH	B, WU, U*	Y	1	500 - 3,000**	5.5	CB	5.1	
Makita 4305	305	BG	B, WU	Y	1	500 - 3,000**	5.5	CB	5.1	Anti-splinter insert.
Makita 4320	182	TH	WU	Y	1 1/16	0 - 3,200	2.9	CB	2.9	
Metabo EP565	319	TH	U	Y	1	500 - 3,000**	5	CB, VP	6.2	
Metabo STEP550	215	TH	B, U	Y	3/4	1,000 - 3,000**	4.8	CB	5.9	Vacuum port opt.
Metabo STEP600Q	251	TH	B*	Y	3/4	1,000 - 3,000**	5.2	CB, VP	5.9	
Metabo STEP700Q	325	BG	B*	Y	1	1,000 - 3,000**	6	CB, VP	6.4	Steel case.
Milwaukee 6256-6	284	TH	U	Y	1	0 - 3,100	3.8	CB	5.8	Trigger speed control.
Milwaukee 6266-6	319	TH	B*	Y	1	450 - 3,100**	5.7	CB, VP	5.3	Anti-splinter insert.
Milwaukee 6266-21	329	TH	B*	Y	1	450 - 3,100**	5.7	CB, VP	5.3	Case incl.
Milwaukee 6267-20	445	BG	B*	Y	1	1,700**	—	VP	5.8	12V cordless.
Milwaukee 6267-21	530	BG	B*	Y	1	1,700**	—	VP	5.8	12V cordless.
Milwaukee 6276-6	319	BG	B*	Y	1	450 - 3,100**	5.7	CB, VP	5.3	Anti-splinter insert.

KEY: Type: BG = barrel grip, IL = in-line, TH = top handle.
 Blade Mount Type: B = bayonet, H = hook, U = universal, WU = wide universal.
 Dust Control: CB = chip blower, VP = vacuum port. Y = yes. N = no. — = not applicable.
 *Has toolless blade change. **Has orbital blade action.
 New models in red. ● = Tested model; recommended. (See page 4.)

Continued on page 94.

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CIRCLE NO. 4 ON PRODUCT INFORMATION FORM

Jigsaws



Porter-Cable 9543



Ryobi JSO48

See page 152
for listing of manufacturers.

Brand & Model	List Price	Type	Blade Mount Type	Blade Guide	Stroke Length (in.)	Cuts per Minute	Amps	Dust Control	Weight (lb.)	Comments & Features
Porter-Cable 548	\$440	TH	H, U	N	7/16	0 - 4,500**	3.5	—	6.5	Fixed base; anti-splinter insert; worm drive.
Porter-Cable 7349	220	TH	H, U	Y	1	0 - 3,200**	4	CB	6	Side blade guides; anti-splinter insert.
Porter-Cable 7649	254	BG	H, U	Y	1	500 - 3,200**	4.8	CB	6	Anti-splinter insert.
Porter-Cable 9543	300	TH	B, U*	Y	1	500 - 3,100**	6	CB, VP	5.8	Case incl.; toolless base adj.
Porter-Cable 97549	254	TH	H, U	Y	1	500 - 3,200**	4.8	CB	6.5	Side blade guides; case incl.
Ryobi JSO45	90	TH	WU	Y	5/8	0 - 3,000**	3	—	3.5	Reversible dual-throat base.
Ryobi JSO48	90	TH	WU	Y	3/4	0 - 3,000**	4	CB	4	
Skil 4225	47	TH	U	N	5/8	3,200	3.2	CB	3.1	Blade storage.
Skil 4235	54	TH	U	N	5/8	0 - 3,200	3.2	CB	3.1	Blade storage.
Skil 4340	70	TH	U	Y	5/8	800 - 3,200	4	CB, VP	4	
Skil 4445	79	TH	U	Y	5/8	800 - 3,200**	4	CB, VP	4	
Skil 4455	87	TH	U	N	5/8	800 - 3,200	4	CB, VP	4.1	Manual and auto scrolling.
Skil 4470	96	TH	U	N	5/8	800 - 3,200**	4	CB, VP	4.1	Manual and auto scrolling.
Skil 4470-44	105	TH	U	N	5/8	800 - 3,200**	4	CB, VP	4.1	Manual and auto scrolling; 5 blades; case incl.
Skil HD4560	186	TH	U	N	13/16	0 - 3,200	3.5	CB	5.5	Manual and auto scrolling.
Skil HD4580	199	TH	U	N	13/16	0 - 3,200**	3.5	CB	5.6	

KEY: Type: BG = barrel grip, IL = in-line, TH = top handle. Blade Mount Type: B = bayonet, H = hook, U = universal, WU = wide universal. Dust Control: CB = chip blower, VP = vacuum port. Y = yes. N = no. — = not applicable.

*Has toolless blade change. **Has orbital blade action.

New models in red. ● = Recommended based on AW shop testing.

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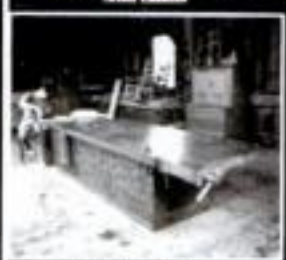
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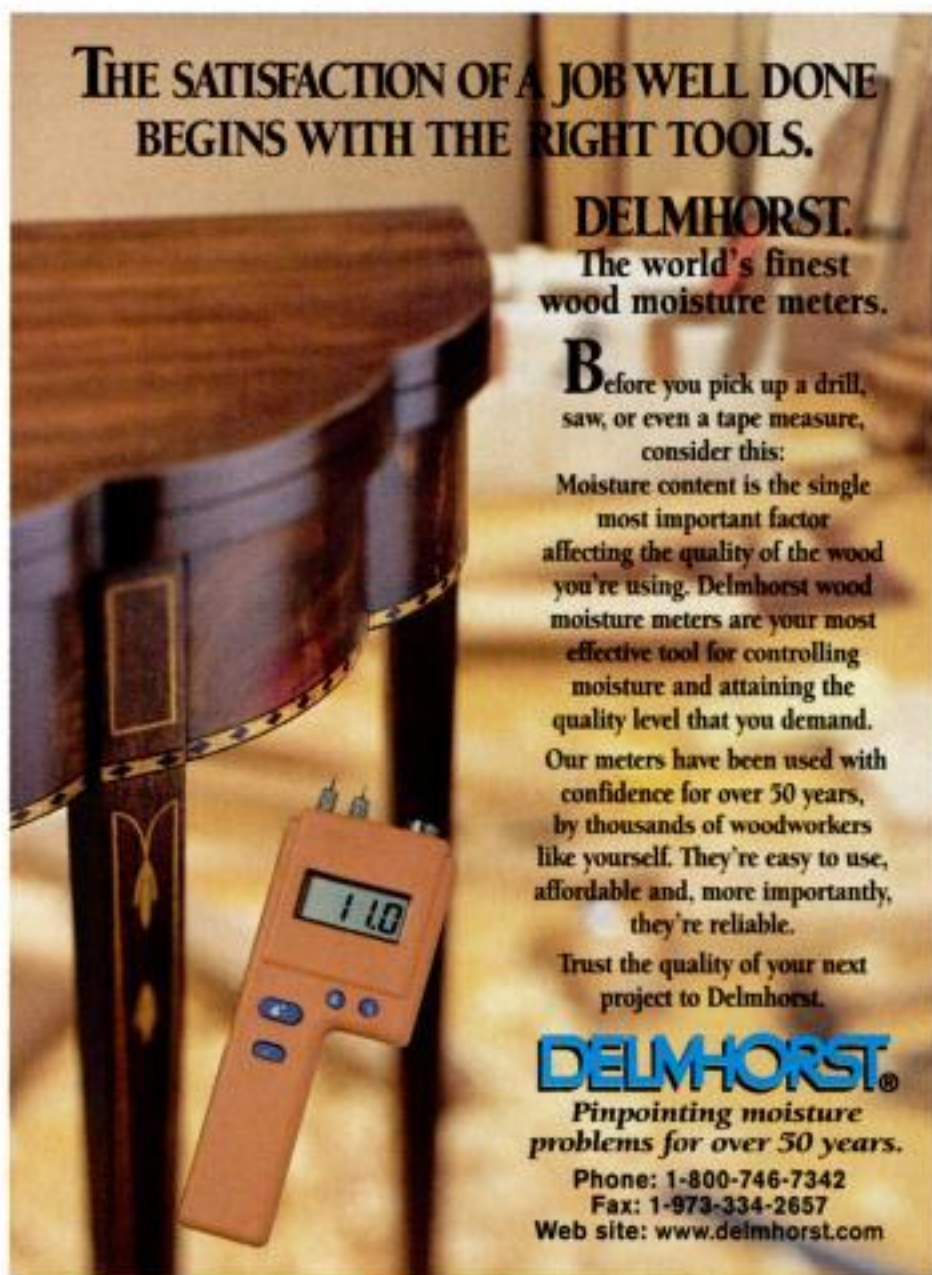
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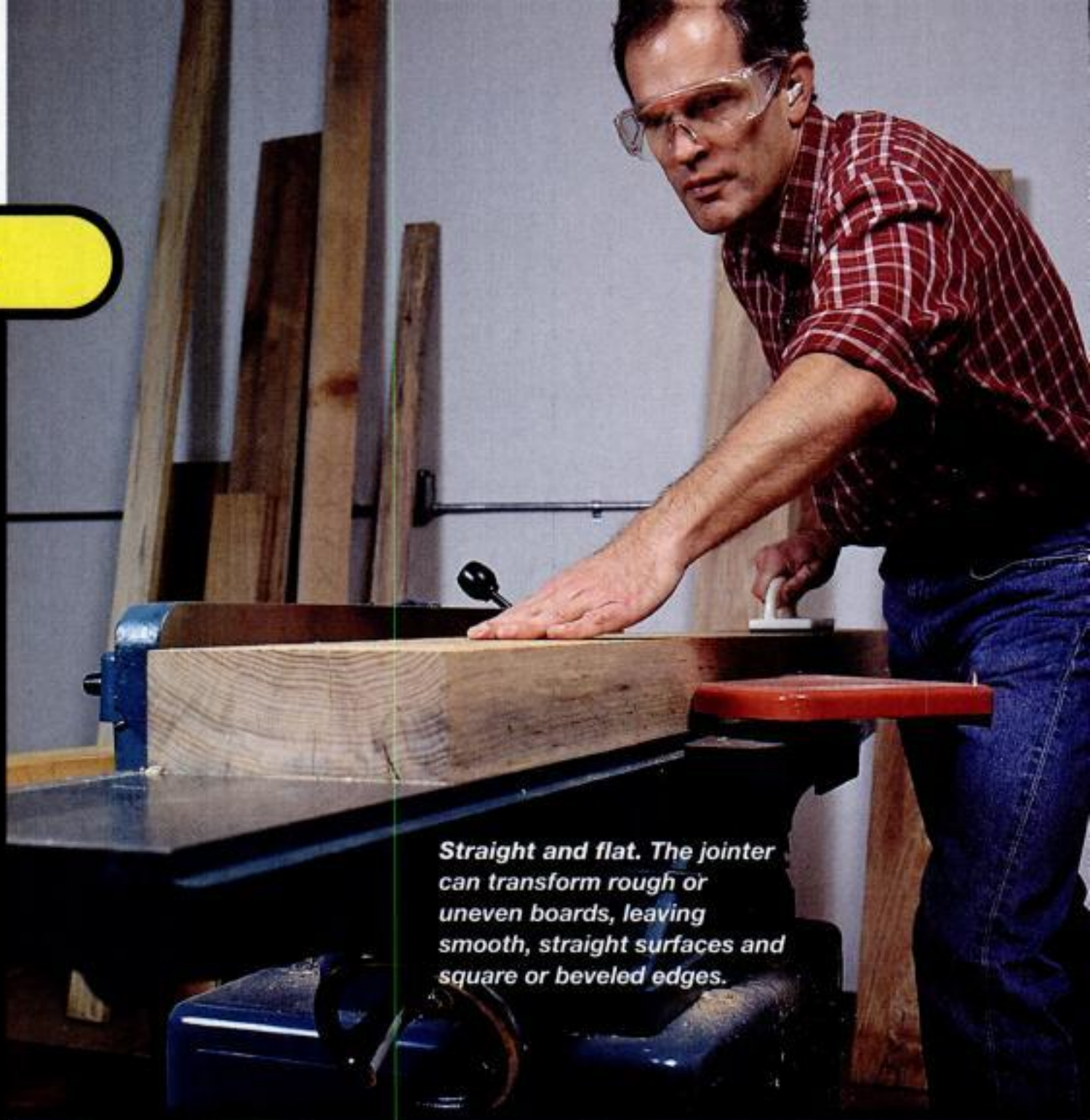


CIRCLE NO. 18 ON PRODUCT INFORMATION FORM

Jointers

A jointer is a simple machine that performs simple but critical work: preparing rough stock for woodworking. With a jointer, you can transform a cupped, roughsawn surface into a smooth, perfectly flat one, readying it for the thickness planer. (See page 116.) The jointer also will true the edges of boards—a process called jointing. Although it can do other work, its stock-preparation chores are the jointer's reason for being.

The stated size of a jointer is based on its maximum width of cut; 6- and 8-in. models are most popular. But the size of the infeed and outfeed tables, along with their flatness and alignment, also plays a critical role in the machine's functioning.



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

2 Types of jointers

Floor Model

These machines are the best choice for handling longer and heavier boards. Professionals choose stationary jointers 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

Tables

It almost goes without saying that a jointer's infeed and outfeed tables should be machined flat, with a smooth finish. But in addition, the tables must be aligned parallel to each other to produce flat surfaces on the stock you're milling. The overall length of the jointer bed is also important; if you frequently mill long boards, get a jointer with long beds.

Table Adjustments

Either a handwheel or a lever is used to adjust table height on jointers. (See photo, below.) With the lever, you can raise and lower a table quickly, an advantage when surfacing rough stock. Although it is slower, a handwheel allows you to raise and lower a table in smaller increments. This is especially advantageous on the outfeed table, where it's critical to perfectly align the table surface with the knives.



Handwheel or lever? Adjusting table height with a handwheel takes more time than using a lever, but offers more precision.

Benchtop

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 the desired cutting smoothness. ([See chart, page 98.](#))



Fence operation. A well-designed fence is center-mounted, with sturdy locking levers and adjustable stops at 90° and 45°.

Fence

Like the tables, the fence should be machined flat, with a smooth finish to ease stock movement. A center-mounted fence is more stable than an end-mounted fence. (See photo, above.)

Base

A factory-made base should be included in the price of all jointers except benchtop models. Look for sturdy construction with an integral dust chute and/or dust-collection port.

Rabbeting Ledge

Found on many floor-model jointers, this feature enables you to use the jointer to mill rabbets and tongues. (See photo, right.)



Rabbets and tongues. A jointer that's equipped with a rabbeting ledge can be used to mill these joints with minimum fuss.

Options worth having

Push blocks. A must for safe milling operations, push blocks can be purchased or made in the shop.

Extra knives. To minimize downtime when knives get nicked or dull, it's a good idea to have an extra set of knives.

Knife-setting jig. Changing knives can be a tedious, vexing job. A knife-setting jig makes knife installation easier and more precise. If your jointer doesn't come with such a jig, you can purchase one separately.

Extension rollers or supports. When you mill long stock, adjustable rollers or supports can help you control the workpiece. This option is especially worthwhile with a small floor-model jointer.

Jointers



Ryobi JP155



Jet JJ-60S



Sunhill CT-60L



Star S3107N

See page 152
for listing of manufacturers.

Brand & Model	List Price	Cutting Width x Bed Length (in.)	Nb. of Knives x Rpm	HP	Volts	Rabbeting Ledge	Dust Collection Port	Weight (lb.)	Comments & Features
BENCHTOP Craftsman 21724	\$119	4 1/8 x 23 1/8	2 x 8,000	5/8	115	N	Y	32	Universal motor; cast-aluminum table.
Ryobi JP155	630	6 1/8 x 28	2 x 8,000 - 16,000	NA	115	N	Y	27	Variable speed.
Delta 37-070	362	6 1/8 x 30	2 x 6,000 - 11,000	NA	115	N	Y	35	Variable speed.
Craftsman 21728	229	6 1/8 x 30 1/4	2 x 8,000	1 1/2	115	N	Y	46	Universal motor; cast-aluminum table.
Star S3100	300	4 x 31	3 x 5,000	1/2	115/230	Y	Y	110	Center-mounted fence.
Jet JJ-60S	529	6 x 42	3 x 4,800	3/4	115/230	Y	Y	180	Industrial push-button switch.
Jet JSL-6J	399	6 x 42	3 x 4,800	3/4	115/230	Y	Y	180	
Tradesman 8202A	349	6 x 42	3 x 4,000	1	115/230	Y	OPT	169	Front-mounted fence.
General 1180-1	937	6 x 42 1/2	3 x 4,200	—	—	Y	Y	185	Motor not incl.
General 1180-1-M1	1,217	6 x 42 1/2	3 x 4,200	3/4	115/230	Y	OPT	210	
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.
Woodtek 801589	395	6 x 42 1/2	3 x 6,000	1	115/230	N	Y	191	Front & rear guards.
Bridgewood BW-6R	399	6 x 45 1/2	3 x 4,500	1	115/230	Y	Y	239	Handwheel adj. table; jackscrew adj.
Powermatic 54	764	6 x 45 1/2	3 x 4,500	3/4	115/230	Y	Y	215	Center-mounted cast-iron fence.
Reliant DD39C	400	6 x 45 1/2	3 x 4,500	1	115/230	Y	Y	214	Knife-setting gauge.
Delta 37-190 Deluxe	615	6 x 46	3 x 4,800	3/4	115/230	Y	Y	210	Center-mounted fence.
General Int'l 80-100	825	6 x 46	3 x 4,800	3/4	115	Y	Y	275	
Seco SK-0006JT	495	6 x 46	3 x 5,000	1	115	Y	Y	210	Fence tilt 45°.
Transpower JT700	325	6 x 46	3 x 4,500	1	115	Y	Y	210	Center-mounted fence.
Grizzly G1182	350	6 x 47	3 x 5,000	1	115/230	Y	OPT	250	Ball-bearing cutter head; adj. outfeed.
Grizzly G1182Z	395	6 x 47	3 x 5,000	1	115/230	Y	OPT	275	Cabinet stand.
Star S3101KD	345	6 x 47	3 x 5,000	1	115/230	Y	Y	230	Center-mounted fence.
Star S3104	410	6 x 47	3 x 5,000	1	115/230	Y	Y	250	Nylon table protector; center-mounted fence.
Star S3104N	525	6 x 47	3 x 5,000	1 1/2	115/230	Y	Y	250	Jackscrew adj.
Sunhill CT-60L	379	6 x 52	3 x 4,500	1	115/230	Y	Y	220	Cast-iron table extensions.
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.
Powermatic 50	1,774	6 x 56	3 x 7,000	3/4	115/230	Y	Y	434	Fence can be skewed for shear cuts.
Jet JJ-6CSX	639	6 1/16 x 46	3 x 4,800	3/4	115/230	Y	Y	275	Center-mounted fence.
Craftsman 22724	479	6 1/8 x 45 3/4	3 x 5,000	1	115	Y	N	204	Enclosed stand.
Lobo JT-1007	299	7 x 42 1/2	3 x 4,500	1	115	Y	N	205	
General 480-1	1,997	8 x 64	3 x 4,500	—	—	Y	Y	360	Motor not incl.
General 480-1-M1	2,417	8 x 64	3 x 4,500	1 1/6	230	Y	Y	440	Magnetic starter.
Grizzly G1018	695	8 x 65	3 x 5,000	1 1/2	230	Y	OPT	445	Fence stop 90° & 45°.
Star S3102	695	8 x 65	3 x 5,000	1 1/2	230	Y	Y	450	Nylon table protector.
Star S3107	775	8 x 65	3 x 5,000	2	230	Y	Y	450	Nylon table protector; center-mounted fence.
Star S3107N	825	8 x 65	3 x 5,000	2	230	Y	Y	450	Jackscrew adj.
Woodtek 907064	799	8 x 65 3/8	3 x 4,500	1 1/2	115/230	Y	Y	445	Handwheel adj. table.
Bridgewood BW-8J	895	8 x 66	4 x 4,500	1 1/2	115/230	Y	Y	420	Handwheel adj. table; jackscrew adj.
Jet JJ-8CS	1,399	8 x 66	3 x 5,500	2	230	Y	Y	398	Center-mounted fence.
Seco SK-0008JT	\$1,000	8 x 66	4 x 4,500	2	230	Y	Y	512	Double V-belt drive.
General Int'l 80-200	1,860	8 x 66 1/2	3 x 4,500	1 1/2	230	Y	Y	515	
Transpower JT980	735	8 x 67	4 x 4,500	2	230	Y	Y	490	Handwheel adj. table.
North State CT 200	795	8 x 68	3 x 4,500	2	115/230	Y	Y	500	Knife-setting gauge; double V-belt drive.

KEY: — = not applicable. Y = yes. N = no. OPT = optional. NA = information not available.
New models in red. ● = Tested model: recommended. (See page 4.)

Continued on page 100.

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CIRCLE NO. 48 ON PRODUCT INFORMATION FORM

Jointers



Craftsman 20651



Delta DJ-30 37-360

See page 152
for listing of manufacturers.

FLOOR

Brand & Model	List Price	Cutting Width x Bed Length (in.)	No. of Knives x Rpm	HP	Volts	Rabbeting Ledge	Dust Collection Port	Weight (lb.)	Comments & Features
Powermatic 60	\$2,278	8 x 72	3 x 7,000	1½	115/230	Y	Y	547	Fence can be skewed for shear cuts.
Sunhill CT-204L	859	8 x 72	4 x 4,500	2	230	Y	Y	500	Cast-iron table extensions.
Delta DJ-20 37-350A	2,155	8 x 76½	3 x 5,500	1½	115/230	Y	Y	480	Extra-long infeed table.
Craftsman 20651	1,449	8½ x 66	3 x 4,500	1½	230	Y	Y	476	Rollers extend table to 86 in.
Lobo JT-1008	689	8½ x 66	3 x 5,500	2	115/230	Y	OPT	520	Double V-belt drive; handwheel adj. table.
Grizzly G4178	1,995	12 x 72	3 x 5,200	2	230	Y	OPT	836	Rack & pinion fence.
Lobo JT-0012	2,390	12 x 72	4 x 5,250	3	230	Y	Y	960	Center-mounted fence; cabinet stand.
Star S3103	1,899	12 x 72	3 x 5,200	3	230	Y	Y	1,200	Magnetic starter; center-mounted fence.
Seco SK-512JT	2,494	12 x 74	3 x 5,200	3	230	Y	Y	1,060	Dual V-belt pulley.
Delta DJ-30 37-360	4,381	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-12FPN	3,750	12 x 86	3 x 5,200	3	230	Y	Y	1,500	Fence tilt 45°.
North State CCA512	2,475	12 x 87	3 x 5,200	3	230	Y	Y	1,450	Center-mounted adj. fence.
Seco SK-516JT	3,950	16 x 86	3 x 5,200	5	230	Y	Y	1,377	Mag switch; V-belt pulley.
Mini Max F1	5,995	16 x 102	4 x 5,000	4	230/460	Y	OPT	1,653	
North State CCA516	3,195	16 x 111	3 x 5,200	5	230	Y	Y	1,600	Center-mounted adj. fence.

KEY: — = not applicable. Y = yes. N = no. OPT = optional. NA = information not available.
New models in red. ● = Recommended based on AW shop testing.

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Lathes

Most things round and wooden come from a wood lathe. This time-honored tool provides a world of wood-working project options from chair parts and table legs to bowls and cabinet pulls. Lathes are fun to use, and the working principle is simple: As the workpiece spins, you cut into it with a variety of sharp tools to shape it.

The lathe is composed of three parts: the powered headstock, the adjustable tailstock (for spindle turning), and the bed.

Lathe size is designated by the swing, which is the maximum diameter of work it will handle. Length is the distance between centers and represents the longest stock you can mount between the headstock and tailstock.

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

3 Types of lathes

Floor Model

This type of lathe is the choice of serious turners. It is a substantial, freestanding power tool designed for general-purpose turning, which means both spindle and faceplate turning. Because its size and weight minimize vibrations, clean cutting is easier.

Benchtop

Downsized versions of low-end floor models, benchtop lathes typically have less capacity and less rigidity—and smaller price tags—than their bigger brethren. A benchtop model must be securely bolted to a robust workbench or base to dampen vibration. It is a good choice for the occasional turner, or where shop space or budget is limited.



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 1 1/4 in. by 8 tpi. A lock on the spindle makes it easier to remove the faceplate and chuck.

Power

For general purpose turning, a 1-HP motor is more than adequate. Higher-powered motors are only necessary for large workpieces.



Indexing head. Laying out a turning in graduated increments for flutes, spirals, and decorative work is easy on a lathe with an indexing head. The pin on the left end of the housing locks into holes in the head, preventing the spindle from turning.

Specialty

Bowl lathes are designed specifically for large-diameter work, not spindle turning, and have either a short bed or no bed at all.

Mini lathes are extra-small benchtop models designed for turning miniature items like clothes pegs, salt and pepper shakers, button cups, finials, and pens.

Copy or duplicator lathes are designed for efficient production of identical turnings. These lathes are equipped with a self-feeding cutter that "reads" a master turning and simultaneously produces a duplicate.



Swiveling headstock. The headstock-center-to-bed dimension limits the size of work that can be turned on conventional lathes. But some have headstocks that swivel 90° for turning large-diameter work. The standard tool-rest system, sometimes requiring accessories, can still be used.

Weight

Weight is an advantage. Serious turners should look for a machine with a cast-iron body—important for its great rigidity and vibration-damping qualities. Lathes with beds of steel angle or pipe will flex in use, causing vibration and hindering smooth cutting.

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, stop the motor and reposition the belt to fit around a different pair of pulleys. With a 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, turn a crank or lever while the lathe is running. This adjustment offers more versatility than step pulleys, but the low speeds can still be too fast for turning larger-diameter work such as 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 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.

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. This chuck's deep threads are useful for holding medium-size log sections for bowl turning.

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

Lathes



Nova Comet



Delta 46-700



Record CL3/36X30C



Delta 46-221



Grizzly G1067Z

BENCHTOP

FLOOR

Brand & Model	List Price	Capacity: Swing x Length (in.)	Spindle Dia. (in.) x tpi	Bed Type	Out-board Turning	Drive Type	Rpm	HP	Weight (lb.)	Comments & Features
Grizzly G5967	\$149	6 x 12	3/4 x 16	CI	N	RD	300 - 4,750	1/4	46	
Record DML/24X	464	9 x 24	3/4 x 16	CI	Y	SP-3	540 - 2,400	1/3	88	
Nova Comet	400	10 x 12	1 x 8	CI	N	SP-6	540 - 3,600	—	60	Motor not incl.
Craftsman 21716	299	12 x 36	3/4 x 16	TS	N	SP-5	575 - 3,580	1/2	84	Two tool rests; locking rocker switch.
Delta 46-700	598	12 x 36	1 x 8	CI	Y	RD	500 - 2,000	3/4	125	Improved 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 1240	695	12 x 40	1 x 8	TS	Y	SP-4	300 - 2,265	3/4	115	Guard incl.
Record CL5/12X15C	918	15 x 12	3/4 x 16	ST	Y	SP-3	540 - 2,440	1/3	127	Swiveling headstock.
Record CL1/36X15C	1,053	15 x 36	3/4 x 16	ST	Y	SP-3	540 - 2,440	1/3	152	Swiveling headstock.
Craftsman 21717	399	15 x 38	1 x 8	CI	Y	ED	400 - 3,000	1	150	20-in. outboard capacity.
Woodfast M408-B	1,650	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	1,999	16 x 36	33 mm x —	ST	Y	SP-5	400 - 2,800	3/4	125	Swiveling headstock; index head; legs opt.
Woodfast M908-B	1,750	16 x 39	1 1/4 x 8	CI	Y	SP-5	370 - 2,700	—	300	Motor not incl.
Record CL2/36X18C	1,585	18 x 36	3/4 x 16	ST	Y	SP-3	550 - 2,475	1/2	186	Swiveling headstock.
Woodfast M410-B	1,795	20 x 16	1 1/4 x 8	CI	Y	SP-5	370 - 2,700	—	250	Motor not incl.
Record CL3/36X30C	1,786	30 x 36	3/4 x 16	ST	Y	SP-5	510 - 2,400	3/4	190	Swiveling headstock.
Record CL3/48X30C	1,961	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.
Grizzly G5979	295	12 x 35	1 x 8	CI	Y	RD	480 - 2,500	1/2	188	Swiveling headstock.
Delta 46-701	649	12 x 36	1 x 8	CI	Y	RD	500 - 2,000	3/4	148	Swiveling headstock.
Ridgid WL1200	299	12 x 36	3/4 x 16	CI	N	SP-4	875 - 3,450	1/2	160	
Woodtek 829806	1,040	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	3,895	12 x 38	1 x 8	CI	Y	RD	340 - 3,200	1	490	Guard incl.
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	2,080	12 x 39	1 x 8	CI	Y	SP-4	915 - 3,260	3/4	305	Guard incl.
Delta 46-541	2,385	12 x 39	1 x 8	CI	Y	RD	340 - 3,600	3/4	410	Guard incl.
Robert Sorby RS2F	2,150	13 x 24	1 x 8	ST	Y	SP-5	265 - 2,400	1	165	Swiveling headstock.
Robert Sorby RS3F	2,200	13 x 36	1 x 8	ST	Y	SP-5	265 - 2,400	1	175	Swiveling headstock.
Robert Sorby RS4F	2,250	13 x 48	1 x 8	ST	Y	SP-5	265 - 2,400	1	185	Swiveling headstock.
Robert Sorby RS6F	2,350	13 x 72	1 x 8	ST	Y	SP-5	265 - 2,400	1	195	Swiveling headstock.
Grizzly G1067Z	449	13 3/4 x 40	1 x 12	CI	Y	RD	600 - 2,100	1/2	200	Swiveling headstock.
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 incl.
Vega 1446	1,255	14 x 46	1 x 8	TS	Y	RD	320 - 3,400	1	375	Guard incl.
Vega 1553	1,710	15 x 53	30 mm x no threads*	TS	Y	RD	320 - 3,400	1	285	Reverses for sanding; guard.
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	2,695	16 x 16	1 1/4 x 8	CI	Y	SP-5	370 - 2,700	1 1/2	425	
Woodfast M408-V	2,795	16 x 16	1 1/4 x 8	CI	Y	ED	0 - 2,750	1	450	DC motor.
Hegner 200	2,495	16 x 39	33 mm x —	ST	N	SP-4	800 - 2,800	3/4	250	Accepts copy attachments.
Woodfast M908-5	2,850	16 x 39	1 1/4 x 8	CI	Y	SP-5	370 - 2,700	1 1/2	550	

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 drive, RD = Reeves drive, SP-# = step pulleys - # of speeds.

Y = yes, N = no. OPT = optional. — = not applicable. *Setscrew secures faceplates and chucks. **Between threads.

New models in red. ● = Tested model: recommended. (See page 4.)

Continued on page 106.

See page 152
for listing of manufacturers.

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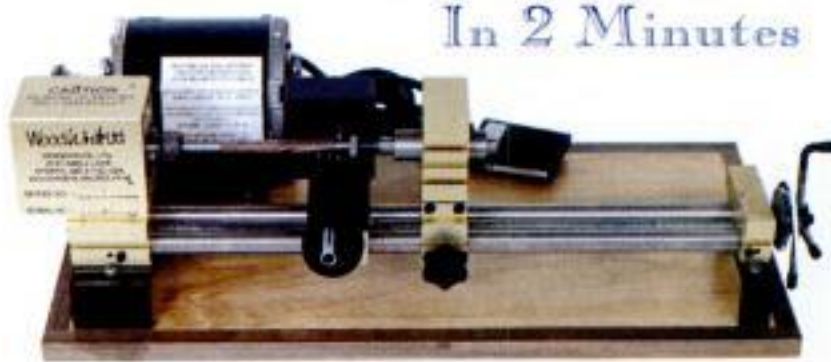
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CIRCLE NO. 14 ON PRODUCT INFORMATION FORM

Lathes



Vicmarc VL348



Klein Mini Lathe



Mini Max T124



Vega 2400 A/C

Brand & Model	List Price	Capacity: Swing x Length (in.)	Spindle Dia. (in.) x tpi	Bed Type	Out-board Turning	Drive Type	Rpm	HP	Weight (lb.)	Comments & Features
Woodfast M908-V ●	\$2,995	16 x 39	1 1/4 x 8	CI	Y	ED	0 - 2,750	1 1/2	550	
Hegner 200/1250	3,299	16 x 49	33 mm x —	ST	N	SP-4	800 - 2,800	3/4	290	Accepts copy attachments.
MVM T-1 500	3,490	16 x 59	#4 MT on OD	ST	Y	SP-4	720 - 3,100	2	495	With reverse.
Conover Deluxe	2,600	16 x unlim.	1 1/2 x 8	WO	Y	SP-4	600 - 2,600	1 1/2	350	
Conover Master Turner	3,100	16 x unlim.	1 1/2 x 8	WO	Y	ED	0 - 2,600	1 1/2	350	Opt. reverse.
Oneway 2016 ●	4,175	20 x 16	33 mm x 3.5**	ST	OPT	ED	24 - 3,200	1 1/2	600	2- and 3-HP models available.
Woodfast M410-V ●	3,095	20 x 16	1 1/4 x 8	CI	Y	ED	0 - 2,750	1 1/2	475	DC motor.
Powermatic 3520 ●	4,317	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	OPT	ED	24 - 3,200	1 1/2	800	2- and 3-HP models available.
Woodfast M910-B ●	1,950	20 x 39	1 1/4 x 8	CI	Y	SP-5	370 - 2,700	—	300	Motor not incl.
Woodfast M910-V ●	3,295	20 x 39	1 1/4 x 8	CI	Y	ED	0 - 2,750	1 1/2	575	
Oneway 2416 ●	4,425	24 x 16	33 mm x 3.5**	ST	OPT	ED	24 - 3,200	1 1/2	650	2- and 3-HP models available.
Vicmarc VL316 ●	3,295	24 x 16	1 1/4 x 8	CI	Y	ED	150 - 2,500	1 1/2	600	
Oneway 2436 ●	4,555	24 x 36	33 mm x 3.5**	ST	OPT	ED	24 - 3,200	1 1/2	850	2- and 3-HP models available.
Vicmarc VL348 ●	3,695	24 x 45	1 1/4 x 8	CI	Y	ED	150 - 2,500	1 1/2	700	
Sherline Hut System I	475	3 1/2 x 8	3/4 x 16	ST	Y	ED	30 - 3,000	1/2	30	Incl. model 4000 and HUT accessories.
Klein Mini Lathe ●	349	5 x 12	3/4 x 16	AL	N	SP-6	500 - 5,200	—	8	Motor not incl.; duplicator opt.
Carba-Tec ●	200	6 x 12	3/4 x 16	CI	N	SP-4	860 - 3,475	—	36	Motor not incl.; duplicator opt.
Carba-Tec ED ●	270	6 x 12	3/4 x 16	CI	N	ED	860 - 4,500	1/6	36	Duplicator opt.
PSI CML3XL	275	6 x 12 1/2	3/4 x 16	CI	N	ED	400 - 4,500	1/4	37	
Ryobi ML618	250	6 1/4 x 18	3/4 x 16	TS	Y	ED	500 - 2,500	1/3	29	Faceplate incl.; #1MT (head and tailstock).
Record RPML 300CL	652	8 1/2 x 12	3/4 x 16	CI	Y	SP-3	540 - 2,400	1/3	77	Swiveling headstock.
Zyliss Torno	150	8 3/4 x 23 3/4	—	TS	N	—	—	—	10	Uses portable drill.
Vicmarc VL100 ●	319	9 x 12	1 x 8	CI	N	SP-6	500 - 3,600	—	48	Motor not incl.; DC adaptor available.
Jet JML-1014 ●	499	10 x 14	1 x 8	CI	N	SP-6	500 - 3,950	1/2	72	Head/tailstock #2MT.
Oneway 1018 ●	1,350	10 x 18	1 x 8	ST	N	ED	24 - 4,000	1/2	140	
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	12 x 36	1 x 8	TS	Y	SP-8	275 - 3,900	1/2	175	Reverse; cutter; guard.
Lobo CL-1000	699	13 x 40	1 x 12	TS	Y	SP-3	995 - 2,970	2	290	Sanding disc incl.
Vega 15D48	2,470	13 x 48	30 mm x no threads*	TS	Y	RD	320 - 3,400	1	350	Reverse; cutter; guard.
Vega 15D96	3,675	13 x 96	30 mm x no threads*	TS	Y	RD	320 - 3,400	1 1/2	475	Reverse; cutter; guard.
Mini Max T124	3,195	16 x 47	1 x #2 MT	TS	Y	SP-4	680 - 3,000	1	375	Cutters incl.
Record CLB22	869	22 x —	3/4 x 16	CI	Y	SP-3	450 - 2,000	1/2	108	
Vega 2400 A/C	1,995	24 x 15	1 1/4 x 8	ST	—	RD	160 - 2,200	1/2	510	Reverse; guard; adj. height.
Vega 2400 D/C	2,495	24 x 15	1 1/4 x 8	ST	—	ED	0 - 2,520	1 1/2	520	Reverse; guard; adj. height.
Vega 24	480	24 x —	1 x 8	TS	—	SP-8	200 - 2,900	3/4	105	Reverse; end access; guard.
Nichols Custom , Bowl Lathes	4,600 & up	26 - 50 to 24- 144	1 1/4 - 8 or 1 1/2 - 8	TS	N	ED or SP-3-8	0 - 2,200	1 1/2 & up	900 & up	Custom built to customer specs.
VB36 ●	4,695	36 x —	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 drive, RD = Reeves drive, SP-# = step pulleys - # of speeds. Y = yes. N = no. OPT = optional. — = not applicable. *Setscrew secures faceplates and chucks. **Between threads.

New models in red. ● = Tested model: recommended. (See page 4.)

See page 152 for listing of manufacturers.

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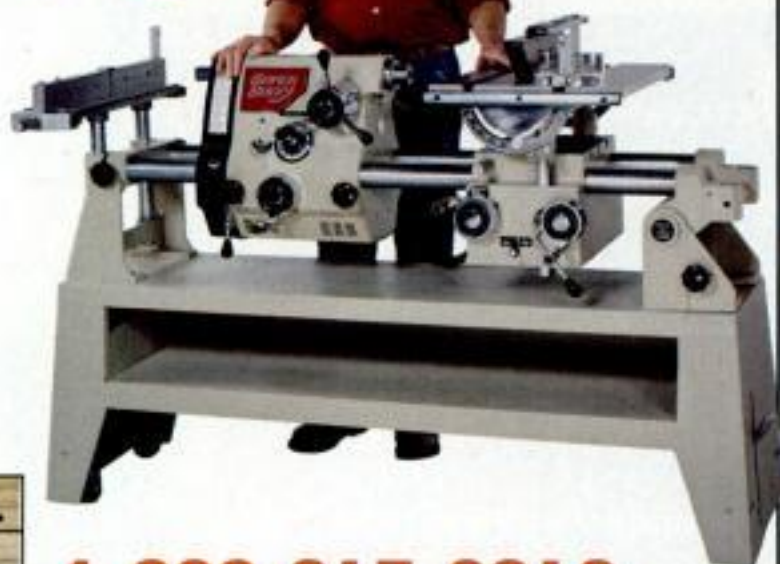
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Miter Saws

Miter saws, or chop saws, have mitered, beveled, and crosscut their way to a permanent spot in workshops and on jobsites. A miter saw can handle everything from trimming studs and cross-cutting other long stock to mitering picture frames and cutting crown moldings. Miter saws excel at making precise cuts at various angles and then quickly adjusting back to square.

Miter-saw size is based on blade diameter; saws commonly range from 8 $\frac{1}{4}$ in. to 12 in. The three different types on the market show the saw's evolution from a simple tool that makes miter cuts in relatively narrow stock to a complex one that cuts compound miters in stock up to 12 in. wide.



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.

3 Types of miter saws

Conventional

Introduced more than 30 years ago, the "motorized miter box" looked a lot like a circular saw mounted on a spring-loaded hinge. The entire head could be swiveled from 0° to 45° (or more on some machines). To make a cut, you'd grasp the handle, squeeze the trigger switch, and pivot the blade down into the stock in a chopping motion—hence the nickname "chop saw." The detailing has changed some, but the simple functionality of the saw hasn't. Most 10-in. saws can cut a 2x4 or 4x4 at 90° and a 2x4 at 45°.



Compound

To make it easier to cut wide baseboards, crown moldings, and other architectural trim that requires compound cuts, power-tool makers revised the miter saw, creating the compound miter saw. This type of saw has a rotating table to make miter cuts, just like a conventional miter saw. But a second pivot lets the head tilt 45° (or more) to one or both sides, so it can make bevel cuts. By combining bevel and miter cuts, the saw makes compound miters. Capacities and blade sizes are comparable to those of conventional miter saws.



Features to consider

Adjustments

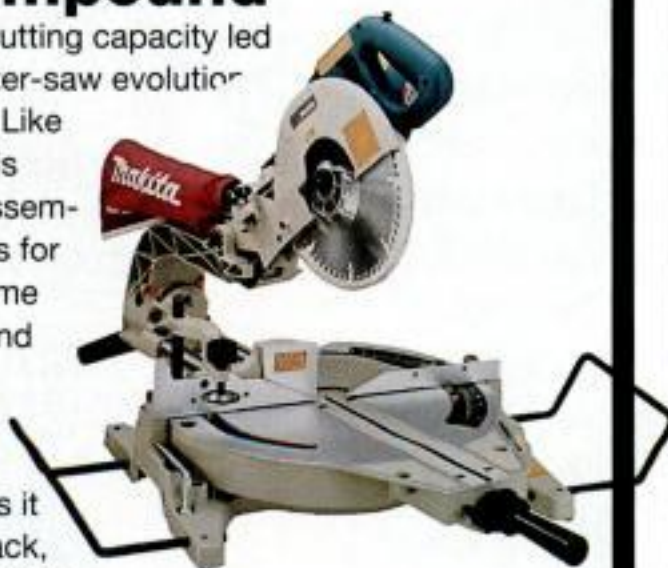
Getting the most from a miter saw involves more than just slicing through wood. It requires swivelling the head for miter cuts, and tilting it from side to side for bevels. So look for smooth-working miter and bevel adjustments and easy-to-read scales. When you need to switch angle settings frequently, large, accessible miter- and bevel-locking mechanisms make a big difference. (See photo, below.) 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 molding. Other handy features include spindle locks for one-wrench blade changing and—on sliding compound saws—depth stops for slotting to a precise depth.



Scales and levers. To make it easy to accurately adjust a saw from cut to cut, you want easy-to-read scales for both bevel and miter settings, and large locking levers that let you instantly capture the setup.

Sliding Compound

The quest for greater cutting capacity led to the next stage in miter-saw evolution: the sliding compound. Like the compound saw, this machine has a head assembly that rotates and tilts for compound cutting. Some models tilt both right and left. What sets this type apart is that the head is mounted on a rail system that enables it to slide forward and back, increasing the crosscutting capacity to more than 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" action is safer than a radial-arm saw's pull cut, which has an unnerving tendency to self-feed.



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. You don't want to have to lift the guard with your thumb while lining up a cut. Most saws have an electric brake that stops the blade when you release the on/off switch or press a button.

Dust Collection

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



Dust busting. Most saws come with dust bags, but they fill quickly and miss a lot of the dirt. A shop-vacuum hookup is better, but it should incorporate a pickup between the fences as well as in the upper housing.

Options worth having

A premium blade. For glass-smooth cuts in molding and thin stock, you'll need a carbide-tipped, finish-cutting crosscut blade to replace the steel blade that comes with most saws. Look for a blade with 60 or more teeth and a low hook angle. For sliding saws, get a blade with a 0° or 5° negative hook.

Table extensions and adjustable stops. The integral saw table and fences are invariably small, the stock you cut inevitably long. At the very least, invest in a set of factory-made extension rails with adjustable stops to support long stock and make repetitive cuts accurately. Better yet, build a workstation. (See below.)

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

Workstation. No machine benefits more from a dedicated stand than the chop saw. A well-designed workstation will include 2- to 3-ft.-long extension tables and fences on either side of the saw, applied tape measures for lining up cuts quickly, and adjustable stops for accurate repetitive cuts.

Miter Saws



Ryobi TS254



Delta 36-075



DeWalt DW705

See page 152
for listing of manufacturers.

Brand & Model	List Price	Blade Dia. (in.)	Maximum Crosscut T x W (in.)	Miter Range (° L, R)	Bevel Range (° L, R)	Depth Stop	Amps	Dust Collection	Weight (lb.)	Comments & Features
Black & Decker 1710	\$169	10	2 x 6	45, 45	—	N	12	DB/VP	28	Adjustable miter detents.
Delta 36-070	217	10	2 1/4 x 5 3/4	48, 50	—	N	13	DB/VP	28	Carbide blade.
Makita LS1030	428	10	2 3/4 x 4 15/16	45, 57	—	Y	12	DB/VP	23.3	Quick-release work clamp.
Milwaukee 6490-6	505	10	2 1/2 x 5 9/16	51, 59	—	Y	15	VP	31.5	Extra-tall fence.
Milwaukee 6491	605	10	2 1/2 x 5 9/16	51, 59	—	Y	15	DB/VP	32.3	80-tooth carbide blade.
Pro-Tech 7107	209	10	2 5/8 x 5 3/4	51, 50	—	N	13	DB/VP	28	9 positive miter stops.
Ryobi TS254	169	10	3 9/16 x 5 9/16	46, 46	—	Y	12.5	VP	34	Carbide blade.
DeWalt DW704	570	12	2 1/2 x 7 7/8	48, 48	—	N	13	VP	36	Extra-tall fence; CM.
Hitachi C15FB	1,386	15	4 3/4 x 7 1/4	52, 52	—	Y	15	DB/VP	55	CM; vise; ext. bars.
Delta 36-040	190	8 1/4	2 1/8 x 5 1/8	47, 47	47, 2	N	9	DB/VP	16	Table insert.
Pro-Tech 7203	199	8 1/4	2 1/8 x 5 1/8	45, 45	45, 0	N	9	VP	18.7	Brake; table insert.
Tradesman 8325	129	8 1/4	2 1/8 x 5 1/4	45, 60	45, 0	Y	9	DB/VP	28	Carbide blade.
Delta 36-075	256	10	5 3/4 x 2 3/8	47, 47	48, -3	N	13	DB/VP	28	Carbide blade.
Delta 36-220	294	10	2 3/4 x 5 1/8	47, 47	47, 2	N	15	DB/VP	49	Ext. wings; work clamp.
Hitachi C10FC	420	10	2 5/8 x 5 3/4	60, 45	45, 0	Y	15	DB/VP	32	Brake; 24-tooth carbide blade; vise.
Makita LS1040	528	10	2 3/4 x 5 1/8	45, 52	45, 0	Y	15	DB/VP	24.2	
Milwaukee 6494-6	595	10	2 1/2 x 5 9/16	51, 59	50, 3	Y	15	VP	39	Adjustable fence.
Milwaukee 6495	725	10	2 1/2 x 5 9/16	51, 59	50, 3	Y	15	DB/VP	41.5	80-tooth blade; vise.
Pro-Tech 7207	239	10	2 5/8 x 5 3/4	51, 50	47, 0	N	13	DB/VP	28.4	9 positive miter stops.
Pro-Tech 7208 Type II	299	10	2 3/4 x 5 3/4	50, 50	47, 0	N	15	VP	37	Ext. wings; work clamp; stop block.
Ridgid MS1050	219	10	2 5/8 x 5 3/4	45, 45	45, 0	Y	15	DB/VP	35	
Ryobi TS230	209	10	3 9/16 x 5 9/16	46, 46	45, 0	Y	13	DB/VP	34	Vise; carbide blade.
Tradesman 8328	159	10	2 5/8 x 5 3/4	45, 45	45, 0	Y	13	DB	34	Work clamp; carbide blade.
Bosch 3912	617	12	2 1/2 x 7 7/8	52, 52	47, -2	Y	15	DB/VP	43	Detent override; CM.

KEY: Y = yes. N = no. — = not applicable. **Dust Collection:** DB = dust bag, VP = vacuum port, DB/VP = both. **Comments & Features:** CM = has 31.6° miter detent for cutting crown moldings. **New models in red.** Ⓢ = Recommended based on AW shop testing.

[Continued on page 114.](#)

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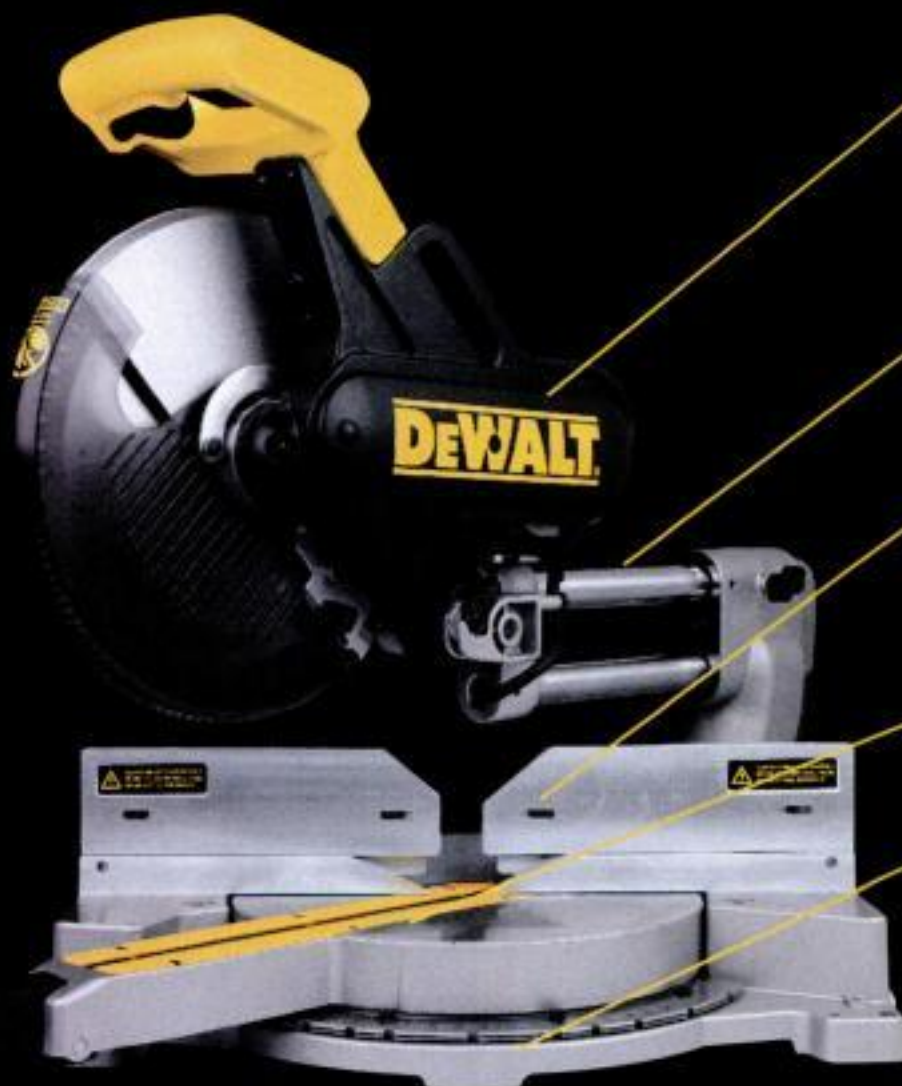
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SEE CIRCLE NO. 25 ON PRODUCT INFORMATION FORM

Miter Saws



Freud TR215



Milwaukee Magnum 6496-6



DeWalt DW708

See page 152
for listing of manufacturers.

Brand & Model	List Price	Blade Dia. (in.)	Maximum Crosscut T x W (in.)	Miter Range (° L, R)	Bevel Range (° L, R)	Depth Stop	Amps	Dust Collection	Weight (lb.)	Comments & Features
COMPOUND Delta 36-235	\$483	12	2½ x 8	48, 48	47, 2	N	15	DB/VP	50	Extra-tall fence; CM.
DeWalt DW705	734	12	2½ x 7⅞	48, 48	48, 0	N	13	VP	38	Extra-tall fence; CM on both sides.
Makita LS1220	1,800	12	3⅞ x 6	48, 48	45, 0	Y	15	DB/VP	37.5	CM.
Pro-Tech CS72121	499	12	7⅞ x 5⅞	49, 49	47, -2	N	15	DB/VP	48.3	Clamp; swing fence; CM; ball detents.
Tradesman 8338	279	12	3⅞ x 5⅞	45, 45	34, 45	Y	15	DB/VP	58	Carbide blade; work clamp.
SLIDING COMPOUND Delta Sawbuck 33-055	846	8	2¾ x 16	47, 47	47, 2	Y	15	—	96	Frame-and-trimsaw; CM.
Craftsman 21294	450	8½	2⅝ x 12	45, 60	45, 0	Y	10	DB/VP	44	Carbide blade.
Freud TR215	689	8½	2¾ x 11¾	45, 45	45, 0	N	9.7	DB/VP	37	Electric blade brake; carbide blade.
Hitachi C8FB2	976	8½	2⅞ x 12	45, 57	47, 0	Y	9.5	DB/VP	38.6	Slide fence; vise; CM.
Ryobi TSS200	389	8½	2⅝ x 12	45, 60	45, 0	Y	10	DB/VP	43	Carbide blade.
Tradesman 8336	349	8½	2⅞ x 12	45, 45	45, 0	Y	10	DB/VP	39	Ext. wings; work clamp; carbide blade.
Bosch 3915	1,030	10	3½ x 12	52, 62	47, -2	Y	13	DB/VP	47	Wedge-&-slot detents.
Delta Sidekick 36-240	587	10	3⅝ x 11½	57, 47	45, 0	Y	15	DB/VP	51	CM; work clamp.
Hitachi C10FS	1,539	10	3⅞ x 12¼	45, 57	45, 45	Y	10	DB/VP	44	Tilts left & right; speed control; CM; vise.
Makita LS1011	995	10	2⅝ x 12	45, 57	45, 0	Y	12	DB/VP	34.8	Single sliding rail; CM.
Makita LS1013	1,211	10	3⅝ x 12¾	47, 52	45, 45	Y	13	DB/VP	46.5	Two depth stops.
Milwaukee 6496-6	1,050	10	3⅞ x 12¾	51, 59	48, 3	Y	15	VP	52	Wedge-&-slot detents.
Milwaukee 6497-6	1,175	10	3⅞ x 12¾	51, 59	48, 3	Y	15	DB/VP	55.5	80-tooth blade; vise.
DeWalt DW708	1,210	12	4½ x 12	50, 60	48, 48	Y	13	VP	57	Double bevel; extra-tall fence; CM.
Makita LS1211	1,620	12	3⅞ x 12¾	60, 60	45, 45	Y	15	DB/VP	51.2	Tilts left & right; single sliding rail; CM.
Makita LS1212	700	12	3⅞ x 12¼	45, 60	45, 45	Y	15	DB/VP	48.5	Two depth stops.

KEY: Y = yes. N = no. — = not applicable. **Dust Collection:** DB = dust bag, VP = vacuum port, DB/VP = both. **Comments & Features:** CM = has 31.6° miter detent for cutting crown moldings. **New models in red.**
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CIRCLE NO. 92 ON PRODUCT INFORMATION FORM

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CIRCLE NO. 84 ON PRODUCT INFORMATION FORM

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

Thickness Planers

A thickness planer is an important machine in any serious woodworker's shop. It can mill stock to any thickness, smooth roughsawn lumber, and true up the faces of glued-up panels.

The thickness planer is easy to use. Turn a crank to adjust the cutting depth, then feed the stock into the machine. Rollers press the board flat against the table while rotating knives remove wood from its top surface. 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.

A planer is sized by its maximum stock width capacity; a 12-in. planer will surface boards up to 12 in. wide.



3 Types of planers

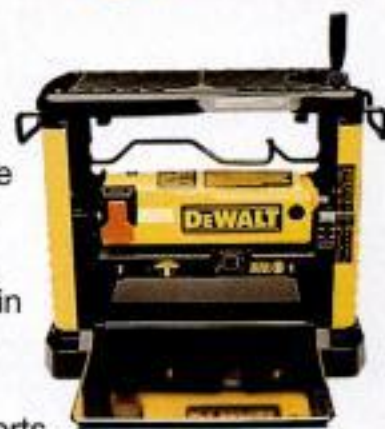
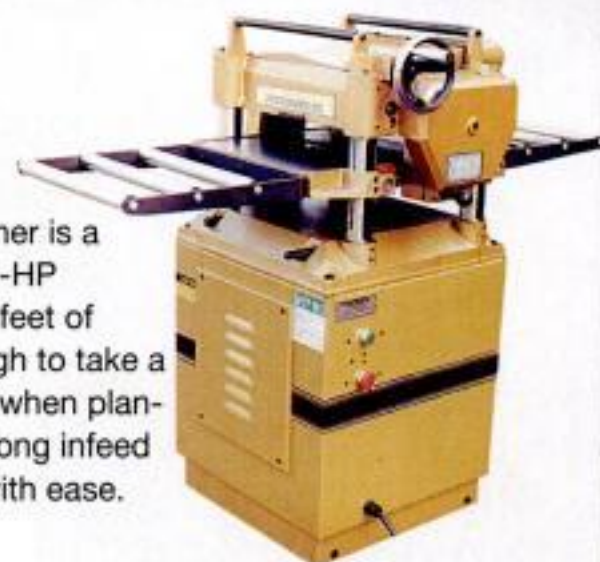
Stationary

In a pro shop, a stationary, or floor-model, thickness planer is a key machine. With width capacities up to 24 in. and high-HP induction motors, these machines can mill thousands of feet of roughsawn stock without stopping. They're strong enough to take a heavy bite—up to $\frac{5}{16}$ in.—so you can save a lot of time when planing large amounts of lumber. Moreover, bed rollers and long infeed and outfeed rollers enable them to handle long boards with ease.

Portable

Intended for light- to medium-duty use, a portable model offers good value to the small-shop woodworker. The typical portable planer has rubber-coated feed rollers flanking a two-knife cutterhead driven by a high-rpm universal motor. It can mill stock as thick as 6 in. and as wide as 12 in., leaving a silky-smooth surface thanks to its high cutterhead speed.

If you plan to move the planer frequently, check out the weights listed in the chart on page 118—some machines weigh 70 lb. or more. Many woodworkers treat portable planers like stationary machines, creating workstations for them by building a stand with infeed and outfeed supports.



Features to consider

Power

Maximum cutting depth is a better power indicator than horse-power rating. (See chart.)

Bed

The bed and, on portables, the extension tables determine how smoothly and uniformly stock slides under the cutterhead. Keep the platen clean and waxed for greatest efficiency.



Friction fighters. Bed rollers and a smooth 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, below.) These can leave marks, which are planed off as the board passes under the cutterhead. (Light cuts may not remove the marks completely).

The rubber-coated infeed rollers used on most portables leave no marks on the wood, but they don't grip as well on long, heavy stock as the serrated steel rollers, and they do wear out.



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

Jointer-Planers

If you have neither jointer nor planer, you might be interested in a combination machine. Jointer-planers use a single motor to power both jointing and planing operations. Typically, they take up less space than two separate machines of similar capacity. Though they sacrifice little in the way of features, some models do require machine adjustments to switch from one operation to the other.



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.

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.

Thickness Planers



Ryobi AP12



Delta 22-560



RBI 812



Jet JPM-13

See page 152
for listing of manufacturers.

PORTABLE

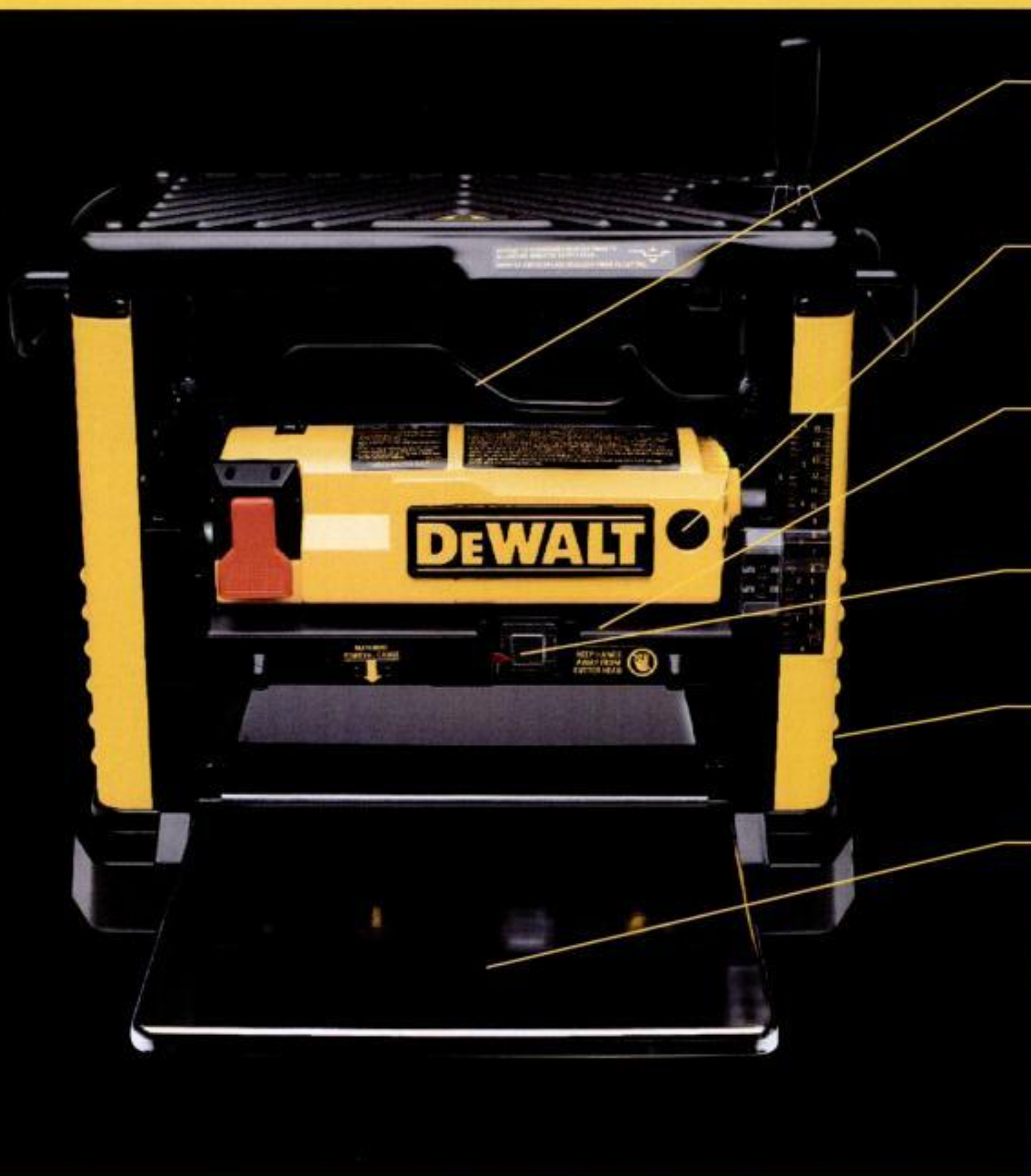
FLOOR

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 (lb.)	Comments & Features
Lobo WP-0010	\$369	5 x 10	1/8	2 x 8,000	A	Y	S, R	2	115	58	2 columns; safety switch.
Grizzly G1017	399	5 x 12	1/16	2 x 8,500	S	N	R	2	115	80	4 columns.
Delta 22-540	518	6 x 12	3/16	2 x 8,000	S	N	R	NA	115	68	4 columns; DED knives.
Makita 2012	1,148	6 x 12	3/32	2 x 8,000	S	N	R	NA	115	53	DED knives.
Penn State Super 125	299	6 x 12	3/32	2 x 8,000	A	Y	R	2	115	63	Opt. dust chutes.
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.
Hitachi P12R	1,789	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	400	6 x 12 5/16	1/8	2 x 8,000	S	N	R	NA	115	63	DED, rapid set knives.
Craftsman 23378	429	6 x 12 1/2	3/32	2 x 8,000	S	N	R	2	115	68	4 columns; DE knives.
Delta 22-560	572	6 x 12 1/2	1/8	2 x 8,000	S	N	R	NA	115	65	Cutterhead lock; DED knives.
DeWalt DW733	806	6 x 12 1/2	1/8	2 x 10,000	S	N	R	3	115	80	Cutterhead lock; 4 posts; depth stop.
Jet JWP-12-4P	532	6 x 12 1/2	3/32	2 x 8,000	CI	N	R	2	115	70	DE knives; top rollers; side handle.
Powermatic 412	531	6 x 12 1/2	1/8	2 x 8,000	S	N	R	2	115	67	DE knives; infeed and outfeed rollers.
Seco SK-0012WP	409	6 x 12 1/2	1/8	2 x 5,000	CI	Y	R	2	115	69	26 fpm feed speed.
Star S3712	399	6 x 12 1/2	1/8	2 x 8,000	S	N	R	2	115	68	DE knives; 4 columns; 4-in. dust hood.
Tradesman 8312	349	6 x 12 1/2	1/8	2 x 8,000	S	Y	R	2 1/2	115	78	Top rollers; side handles.
Williams & Hussey	1,879	8 x 7	1/4	2 x 3,450	CI	N	R	2	115/230	220	Molding capability.
Shopsmith Professional Planer	1,200	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	3,473	5 x 12	1/4	3 x 5,300	CI	Y	S	3	230	612	1-pc. cast-iron frame.
RBI 812	1,299	8 x 12 1/8	3/16	3 x 5,500	S	N	R	3	230	254	Also molder & sander.
Craftsman 23383	700	5 x 12 1/2	3/32	3 x 4,500	CI	N	R	2 1/2	115	123	Molding capability.
Belsaw 1120002	1,956	6 x 12 1/2	3/16	3 x 4,600	CI	N	R	5	230	350	Molding capability.
Belsaw 985-Pro-Pack	2,247	6 x 12 1/2	3/16	3 x 4,600	CI	N	R	5	230	350	Deluxe package.
Belsaw VP-3	2,077	6 x 12 1/2	3/16	3 x 4,600	CI	N	R	5	230	350	Designed for molding.
Woodmaster 712	1,363	7 x 12 1/2	3/16	3 x 4,200	CI	N	R; S OPT	5	230	300	Var. feed speed; opt. mold, sand, saw.
General Int'l 30-100	1,615	6 x 13	1/8	3 x 4,500	CI	N	R	1 1/2	115/230	275	DE knives; accepts molding cutters.
Grizzly G1037	695	6 x 13	3/32	3 x 5,000	CI	N	R	1 1/2	115/230	200	Molder planer.
Jet JPM-13	999	6 x 13	3/32	3 x 4,500	CI	N	R	1 1/2	115/230	204	Molding capability.
General 130-1	3,900	6 x 14	1/16	3 x 4,500	CI	Y	S	3	230	610	Transmission-type gear box.
General 130-1-M1	3,200	8 x 14	1/8	3 x 4,500	CI	Y	S	3	230	650	
Bridgewood BW-15P	849	6 x 15	1/8	3 x 4,500	CI	Y	S, R	3	230	446	Top rollers; jackscrew knife adj.
Craftsman 23374	1,299	6 x 15	1/8	3 x 5,000	CI	Y	S	2	230	548	4 columns; 2 feed speeds: 16, 20 fpm.
Grizzly G1021	765	6 x 15	1/8	3 x 5,000	CI	Y	S	2	230	475	4 columns; 2 speeds.
Jet JWP-15HO	1,699	6 x 15	1/8	3 x 4,500	CI	Y	S	3	230	480	Adj. extension table rollers.
Lobo WP-0015	999	6 x 15	3/16	3 x 4,500	CI	Y	S, R	3	230	520	Top rollers; 2 feed speeds: 16, 20 fpm.
Powermatic 15	1,672	6 x 15	1/8	3 x 4,500	CI	Y	S, R	3	230	484	Top rollers; DE knives; enclosed stand.
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	Three-belt drive; knife-setting gauge.
Star S3715	1,050	6 x 15	1/8	3 x 5,000	CI	Y	S	3	230	475	Knife-setting gauge; 4-in. dust port.
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.

KEY: Bed Material: A = aluminum, CI = cast iron, S = steel.
Feed Rollers: R = rubber coated, S = serrated steel. Y = yes. N = no. OPT = optional.
NA = information not available. Comments: DE = double-edge knives, DED = double-edge disposable knives.
New models in red. ● = Tested model; recommended. (See page 4.)

Continued on page 120.

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Four-column head lock secures the cutterhead against four steel posts, providing a snipe-free finish

Powerful 15 amp motor rotates the cutterhead at 10,000 rpm for 64 cuts per inch; 20% more than the competition

Includes an extra set of heavy-duty, M2 laminated high-speed tool steel knives that last up to six times longer

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For more information, call 1-800-4 DeWALT or visit our web site at www.dewalt.com.



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Thickness Planers



Craftsman 23374



Grizzly G1021



Woodmaster 718

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 (lb.)	Comments & Features
Transpower AP900	\$850	6 x 15	3/16	3 x 5,600	CI	Y	S	3	230	500	Single extension rollers.
Woodtek 875001	1,075	6 x 15	1/8	3 x 4,850	S	N	S	2	230	470	Adj. extension table.
Delta 22-675	1,503	6 1/2 x 15	3/16	3 x 5,000	CI	Y	S	2	230	340	Adj. bed rollers; 3 phase opt.
North State 315	889	6 1/2 x 15	3/16	3 x 5,000	CI	Y	S	3	230	500	Knife-setting gauge; 2 speeds.
General Int'l 30-125	2,425	7 x 15	1/8	3 x 5,000	CI	Y	S	3	230	484	DE knives.
Lobo WP-1015	869	8 x 15	1/8	3 x 4,500	CI	Y	S, R	3	230	480	
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 speed; jackscrew knife adj.
Transpower AP800	750	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. feed speed.
Powermatic 180	6,487	6 x 18	1/2	3 x 4,800	CI	Y	S	5	230/460	1,523	Quick-change cutterhead opt.
Woodmaster 718	1,777	7 x 18 1/2	3/16	3 x 4,200	CI	N	R; S OPT	5	230	420	Var. feed speed; opt. mold, sand, saw.
Seco SK-824WP	4,495	6 x 20	1/4	3 x 5,400	CI	N	S	7 1/2	230	1,606	Knife-setting gauge; 3-belt drive.
Bridgewood BW-200P	2,495	6 1/2 x 20	1/4	3 x 5,000	CI	Y	S	5	230	780	Anti-kickback fingers; jackscrew knife adj.
Grizzly G5850	2,495	6 1/2 x 20	1/8	3 x 5,200	CI	Y	S	5	230	950	
Seco SK-A720WP	2,676	6 1/2 x 20	1/4	3 x 5,200	CI	N	S	5	230	891	Knife-setting gauge; 3-belt drive.
Bridgewood BW-20PV	3,395	7 x 20	1/4	3 x 5,600	CI	Y	S	5	230	857	Var. feed speed; jackscrew knife adj.
Grizzly G1033	1,295	7 x 20	1/8	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; 5 HP opt.
Seco SK-0020WP	1,739	7 x 20	1/4	4 x 5,000	CI	Y	R	3	230	882	Knife-setting gauge; 3-belt drive.
Woodtek 816427	2,479	7 x 20	3/16	3 x 6,000	CI	Y	S	3	230	790	Top rollers.
Woodtek 816434	2,479	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; 5 HP opt.
Lobo WP-0020	1,590	8 x 20	1/4	4 x 5,000	CI	Y	S, R	3	230	920	Top rollers; 2 speeds.
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	30-50 fpm for production.
North State CT-508	1,395	8 x 20	1/4	4 x 5,000	CI	Y	S	5	230	950	Knife-setting gauge; 2 speeds.
Star S3720	1,295	8 x 20	1/8	4 x 5,000	CI	Y	S	3	230	810	Knife-setting gauge; 5-in. dust port.
Star S3725	1,550	8 x 20	1/8	4 x 5,000	CI	Y	S	5	230	850	Knife-setting gauge; 5-in. dust port.
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 AP200A	1,275	8 x 20	1/4	4 x 5,600	CI	Y	S, R	5	230	882	Extension table rollers.
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.
Delta 22-450	4,677	8 5/8 x 20	3/16	3 x 5,000	CI	Y	S	5	230/460	840	Adj. bed rollers, single phase available.
Bridgewood BW-508	4,395	9 x 20	1/4	3 x 5,200	CI	Y	S	5	230	1,370	Jackscrew knife adj.
General 330	8,500	9 x 20	1/8	4 x 4,500	CI	Y	S	5	230	2,000	
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.
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. feed speed.
Mini Max SP-1	7,255	9 3/4 x 20 1/2	5/16	4 x 4,500	CI	Y	S	9	230/460	1,496	3-phase; very quiet.
Seco SK-820-WP	3,517	6 x 24	1/4	3 x 5,400	CI	N	S	5	230	1,507	Knife-setting gauge; 3-belt drive.
Grizzly G5851	3,495	6 1/2 x 24	1/8	3 x 5,200	CI	Y	S	5	230	1,200	

KEY: Bed Material: A = aluminum, CI = cast iron, S = steel.
 Feed Rollers: R = rubber coated, S = serrated steel. Y = yes, N = no, OPT = optional.
 NA = information not available. Comments: DE = double-edge knives, DED = double-edge disposable knives.
 New models in red. ● = Tested model: recommended. (See page 4.)

Continued on page 122.

See page 152
 for listing of manufacturers.

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Thickness Planers



Inca 570



Ridgid JP0600

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 (lb.)	Comments & Features
FLOOR Seco SK-A724WP	\$3,278	6 1/2 x 24	1/4	3 x 5,200	CI	N	S	7 1/2	230	1,144	Knife-setting gauge; 3-belt drive.
Seco SK-A724WP5	2,950	6 1/2 x 24	1/4	3 x 5,200	CI	N	S	5	230	1,144	Knife-setting gauge; 3-belt drive.
North State WJ-24	2,900	7 x 24	1/4	3 x 5,300	CI	Y	S	7 1/2	230	1,450	Var. feed speed; magnetic controls.

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 (lb.)	Comments & Features
JOINTER-PLANERS Lobo WP-10 JT	\$989	6 x 10	10	37	2 x NA	Y, S	2	230	260	
Inca 570	2,895	6 1/4 x 10 1/4	10 1/4	42	3 x 6,000	N, S	2	115/230	180	Tersa cutterhead.
Euroshop JP-300	2,695	9 x 11 13/16	11 13/16	58 1/2	3 x 6,000	N, S	3 3/5	230	530	Opt. tersa cutterhead; mortiser.
Robland XSD	2,695	9 x 12	12	55	3 x 6,000	N, S	3	230	700	Var. feed speed opt.
Hitachi P12RA	2,315	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.
Mini Max FS350	4,255	9 1/4 x 13 3/4	13 3/4	71	3 x 4,500	N, S	3	230	695	Opt. slot mortiser.
Euroshop JP-410	4,975	9 x 16	16	78 3/4	3 x 6,000	N, S	4 4/5	230	957	Opt. tersa cutterhead; mortiser.
Ridgid JP0600	399	NA	6 1/8	46	3 x 5,000	NA	3/4	115/230	205	

KEY: Bed Material: A = aluminum, CI = cast iron, S = steel. Feed Rollers: R = rubber coated, S = serrated steel. Y = yes. N = no. OPT = optional. NA = information not available. Comments: DE = double-edge knives, DED = double-edge disposable knives. **New models in red.** ● = Recommended based on AW shop testing.

See page 152
for listing of manufacturers.

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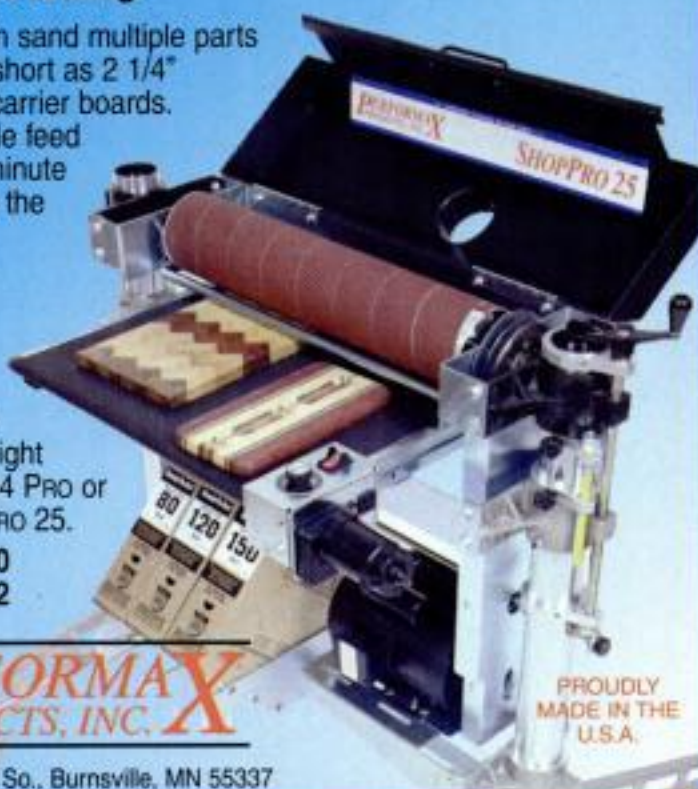
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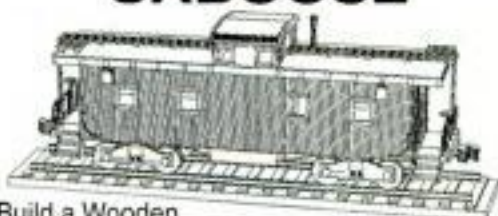
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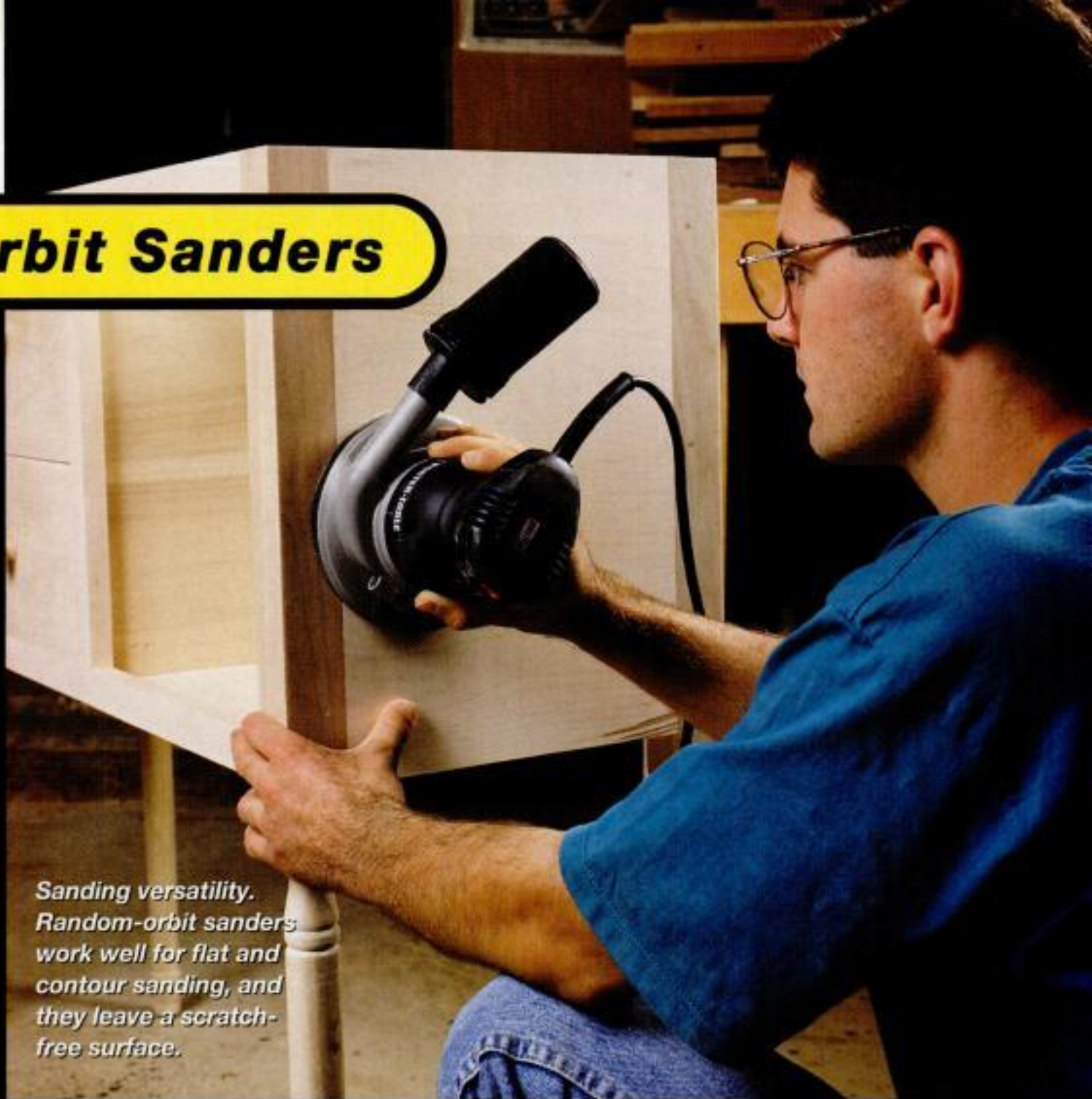
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Random-orbit sanders come in electric or pneumatic (air-powered) versions. Both types are sized according to the diameter of the abrasive disc they use; 5-in. and 6-in. models are most common.



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

4 Types of sanders

Right Angle

In this design, the motor is oriented horizontally and transmits power to the sanding pad via bevel gears. As a rule, these models are more powerful than the others, so they are well suited for aggressive stock removal. Because the motor is offset from the pad, right-angle sanders may have more vibration and noise than other types. Two-hand operation is a must.



In-Line

On this type of sander, the motor is positioned directly above the sanding pad. The balance is better, and without the gears, operation is quieter. There are usually two handles, but most in-line models can be used with either one or two hands. This type offers a good combination of power, balance, and smooth operation; it's the most versatile.



Features to consider

Size

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

Offset

The secret of the random-orbit sander's scratch-free work is that its sanding pad freewheels on a shaft that's eccentric from the drive shaft. The pad's motion is random, and each new turn can cancel out scratches left from prior rotations.

The size of the pad's orbit, called the offset, varies from model to model. In general, the larger the offset, the more aggressive the stock removal. But aggressive sanders can be hard to control, and they produce rougher surfaces than models with smaller offsets.

Pad Brake

A problem with the first generation of random-orbit sanders was that the sanding pad would pick up speed rather dramatically when it was lifted from the workpiece. Setting it back on the work would often leave noticeable swirl marks. The solution is a pad brake. Don't buy a sander without one.

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.

The advantage of the PSA disc is lower cost. But the PSA has some annoying characteristics. The adhesive can degrade and

Palm Grip

For finish sanding, the palm-grip sander is what you need. Palm-grip models are compact, designed for one-hand use.

Pneumatic

Air-powered sanders have lots of advantages. Typically, they're more aggressive than electric models, and they tend to run more smoothly. They're smaller and lighter than the electrics, so they're easier to control and less tiring to use. They can't be damaged if you overload or stall them, and they have a longer service life.

A disadvantage is that you need a big air compressor to drive one efficiently. It should produce 12 to 16 cfm at 90 psi, which means you need a 5-HP or larger, two-stage air compressor.



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 disc (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).

lose its stickiness. Dust can contaminate it. Moreover, once the disc has been peeled off the pad, it can't be reapplied.

Hook-and-loop discs, on the other hand, can be removed and reused, making it easy to switch grits.

Variable Speed Control

For delicate work like buffing, polishing, or light sanding between coats of finish, you want to slow the sander down so it doesn't cut too aggressively. The same is true when smoothing contours, or sanding edges and metal. What you want is variable speed, and some of the new random-orbit sanders have it. Usually, the speed control dial is separate from the trigger switch, so you can change speeds while you're sanding.

Options worth having

Replacement backing pads. For sanding flat surfaces, the standard sanding pad on most sanders is fine. But when sanding contoured parts, you'll want to use a soft backing pad. Buy one when you buy the sander.

Abrasive and polishing pads. Go beyond sandpaper. For sanding between coats of finish, use woven abrasive pads. For polishing, use sponge pads.

Suction hood and vacuum hose. Adding a suction hood will increase your sander's dust-collection efficiency. Use a vacuum hose to connect your sander to a shop vacuum.

Random-Orbit Sanders



Metabo SXE450



DeWalt DW423



Makita BO5010



Porter-Cable 333VS



Festo Tooltechnic RO150E

Brand & Model	List Price	Pad Dia. (in.)	Pad Type	Pad Brake	Orbits per Minute	Dust Collection	Amps	Weight (lb.)	Comments & Features
Ryobi RS115	\$70	4 1/2	HL	N	11,000	DB	2	3	Buffing pad opt.
Bosch 3107DVS	182	5	HL	Y	4,500 - 13,000	DB, VP	3.3	5	Adj. front handle.
Bosch 3107DVSK	213	5	HL	Y	4,500 - 13,000	DB, VP	3.3	5	Adj. front handle; cloth and paper bag; case.
Bosch 3725DVS	272	5	HL	Y	4,500 - 12,000	DB, VP	3.3	5.1	Dual bearing pad mount; soft-grip top.
Craftsman 27717	70	5	PSA	Y	13,000	DC	3	3.5	HL pad available.
Metabo 0125	239	5	HL	Y	5,000 - 12,000	DB	1.8	5.2	
Metabo SXE425	229	5	PSA	Y	5,000 - 12,000	DB	3.6	5.2	Removable front handle.
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	105	5	HL	Y	7,000 - 12,000	DB	2.8	3.8	Adj. front handle.
Bosch 3727DVS	283	6	HL	Y	4,500 - 12,000	DB, VP	3.3	5.2	Dual bearing pad mount; soft-grip top.
Metabo SXE450	289	6	PSA	Y	4,000 - 10,000	DB	3.8	6.5	Switches from small to large orbit for different tasks.
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.
Ryobi RS112	50	4 1/2	HL	N	11,000	—	2	2.1	Sealed on/off switch.
Black & Decker RO100	39	5	HL	Y	12,000	DB	2	3.5	Pad brake controls pad speed.
Bosch 1295D	128	5	HL	Y	12,000	DC, VP	2.2	3.5	360° dust canister; sealed switch.
Bosch 1295DH	155	5	HL	Y	12,000 - 14,000	DC, VP	2.4	3.5	360° dust canister; sealed switch; 2 speeds.
Bosch 1295DP	128	5	PSA	Y	12,000	DC, VP	2.2	3.5	360° dust canister; sealed switch.
Craftsman 11621	40	5	PSA	Y	12,500	DB	2.4	2.7	Sealed on/off switch.
DeWalt DW420	114	5	PSA	Y	12,000	—	2	3	Sealed on/off switch.
DeWalt DW421	124	5	HL	Y	12,000	DB, VP	2	3	Sealed on/off switch; built-in vac adaptor.
DeWalt DW422	124	5	PSA	Y	12,000	DB, VP	2	3	Sealed on/off switch; built-in vac adaptor.
DeWalt DW423	150	5	HL	Y	7,000 - 12,000	DB, VP	2	3.2	Electronic variable speed; built-in vac adaptor.
Dynabrade Dynorbital Electric	329	5	PSA	N	10,000	OPT	5.5	4.8	Smaller 3/32-in. orbit for fine work.
Makita B05010	125	5	HL	Y	12,000	DB	2	2.6	
Makita B05001	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	110	5	PSA	Y	12,000	—	2.4	3.2	HL pad available.
Porter-Cable 333	120	5	HL	Y	12,000	DC, VP	2.4	3.5	PSA pad available; swiveling dust canister.
Porter-Cable 333VS	150	5	HL	Y	5,000 - 12,000	DC, VP	2.4	3.5	PSA pad available; swiveling dust canister.
Porter-Cable 334	120	5	PSA	Y	5,000 - 12,000	DC, VP	2.4	3.5	HL pad available; swiveling dust canister.
Ryobi RS240	39	5	HL	Y	10,000 - 14,000	DB	2.4	3	
Porter-Cable 335	150	6	PSA, HL	Y	12,000	DC, VP	2.4	3.8	Takes PSA or HL pads; swiveling dust canister.
Milwaukee 6125	225	5	PSA	N	10,000	OPT	5.5	5	Paddle on/off switch.
Porter-Cable 7335	260	5	PSA	N	2,500 - 6,000	OPT	3.7	5.5	Dust skirt; HL pad opt.
Bosch 1370DEVS	491	6	HL	Y	4,800 - 12,000	DB, VP	5	5	2-way drive system for rough or fine work.
DeWalt DW443	262	6	HL	Y	4,300 - 6,800	DB, VP	4.3	5.7	Rubber-covered gear case.
DeWalt DW444	262	6	PSA	Y	4,300 - 6,800	DB, VP	4.3	5.7	Rubber-covered gear case.

KEY: Pad Type: HL = hook/loop, PSA = pressure-sensitive adhesive. Dust Collection: DB = dust bag, DC = dust canister, VP = vacuum port. Y = yes, N = no, OPT = optional, — = not applicable. New models in red. ● = Tested model: recommended. (See page 4.)

Continued on page 128.

See page 152 for listing of manufacturers.

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-1001 base-
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| 310 | Laminate Trimmer | 142 |
| 314 | 4 1/2" Trim Saw | 145 |
| 330 | Speed bloc Sander | 64 |
| 333 | RO Sander 5" H&L | 64 |
| 333VS | RO Sander 5" NEW! | 77 |
| 335 | NEW! 6" RO Sander | 83 |
| 352VS | 3X21 Sander VS | 163 |
| 360VS | NEW! VS Sander | 224 |
| 362VS | NEW! VS Sander | 229 |
| 556 | Biscuit Joiner | 131 |
| 557 | NEW! Biscuit Joiner | 199 |
| 693 | 1.5hp Plunge Router | 179 |
| 6931 | Plunge Base | 79 |
| 697 | Router Table & motor | 229 |
| 698 | Router Table only | 129 |
| 7334 | 4" RO Sander | 109 |
| 7518 | 5 speed 3hp Router | 277 |
| 7519 | 3 hp Router | 249 |
| 7537 | 2 hp D-Handle Rtr | 217 |
| 7538 | 3 hp Plunge Router | 248 |
| 7810 | Vacuum | 244 |
| 9345 | Sawboss w/ case | 129 |
| 9444 | Profile Sander | 94 |
| 9444VS | VS Profile Sander | 111 |
| 97310 | Trimmer Kit | 184 |
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| DA250A | 2 1/2" angle Finish | 229 |
| NS150 | 1/4" crown Stapler | 154 |
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| CF1540 | 1-1/2 hp Compressor | 292 |

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| 4304 | Jig Saw | 149 |
| 4305 | Jig Saw | 148 |
| 6213DWAE | 3/8" 12V Cord | 189 |
| 6233DWAE | 3/8" 14V Cord | 194 |
| 6313DWAE | 1/2" 12V Cord | 196 |
| 6333DWAE | 1/2" 14V Cord | 209 |
| 9924DB | 3X24 Beltsander | 188 |
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| LS1030 | 10" Miter Saw | 199 |
| LS1040 | 10" Compound Saw | 257 |

BOSCH

B4200
\$125
VS

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| Orbital Jigsaw | 146 | |
| 1587VSK50 | Jig Saw Kit | 139 |
| 1604AKX | 1-3/4 hp Router | 179 |
| 1606A | D-Handle Router | 222 |
| 1609PX | TrimKit | 109 |
| 1943LED | Heat Gun | 99 |
| 3283DVS | 5" RO Sander | 529 |
| 3915 | Compound Miter | 109 |
| B1350 | 1 3/4 hp Router | 199 |
| B1550 | 3hp Router | 99 |
| B4060 | Inline Jig Saw | 59 |
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| DW431 | 3X21 Belt Sander | 187 |
| DW443 | 6" H&L RO Sand | 147 |
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| DW610 | 1 1/2 hp Router | 144 |
| DW621 | 2Hp Plunge Rtr | 217 |
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| 0379-6 | 1/2" Close Qtr Drill | 159 |
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| 0479-6 | 12V R/Angle Cordless | 243 |
| 0511-21 | 14V Cordless | 210 |
| 3107-1 | VS Rt Angle Drill | 219 |
| 5682 | 2 Hp Router | 164 |
| 6020-20 | 6" RO Sander | 153 |
| 6025-20 | 5" RO Sander | 134 |
| 6101-6 | NEW Bandfile | 193 |
| 6215 | Elec Chainsaw | 230 |
| 6266 | Jig Saw w/case | 157 |
| 6494-6 | 10" Compound Miter | 309 |
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Random-Orbit Sanders



Master Power 4400



Sioux 890



Craftsman 1997



Fein M10000-6

RIGHT ANGLE

Brand & Model	List Price	Pad Dia. (in.)	Pad Type	Pad Brake	Orbits per Minute	Dust Collection	Amps	Weight (lb.)	Comments & Features
Fein MSF 636-1	\$670	6	HL	N	7,500	VP	4.7	3.7	98% dust containment with opt. Fein vac.
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	5.8	Dust skirt; HL pad opt.
Festo Tooltechnic ET-2E	268	6	HL	Y	8,000 - 20,000	DB, VP	2.2	4.6	
Festo Tooltechnic RO150E	512	6	HL, PSA	Y	4,000 - 10,000	VP	4	5	Double action: random orbital and plain orbital.

PNEUMATIC

Brand & Model	List Price	Pad Dia. (in.)	Pad Type	Pad Brake	Orbits per Minute	Dust Collection	Air Required (cfm @ psi)	Weight (lb.)	Comments & Features
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.
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	3/16-in. orbit.
Dynabrade Dynorbital #56815	245	5	PSA	N	12,000	OPT	16 @ 90	2.1	Faster speed.
Dynabrade Dynorbital Supreme	255	5	PSA	N	10,000	OPT	16 @ 90	2.1	Smaller 3/32-in. orbit for fine work.
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 4400 Series	248	5	PSA, HL	N	10,000	DB, VP	5.5 @ 90	1.5	Light weight; low profile.
Master Power 4407	235	5	PSA	N	10,000	—	5.5 @ 90	2.5	
Master Power 4407DF	250	5	PSA	N	10,000	VP	5.5 @ 90	2.5	
Master Power RO51DF	268	5	PSA	N	10,000	VP	5.5 @ 90	2.5	
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.
Sioux 890	220	5	PSA	N	10,000	OPT	14 @ 90	1.8	Ergonomic grip standard.
Sioux 890V	220	5	PSA	N	10,000	VD	14 @ 90	1.9	
Sioux 890VV	220	5	PSA	N	10,000	DB	14 @ 90	1.9	Venturi vacuum.
Coleman Powermate 024-0092SP	27	6	PSA	N	7,500 - 9,000	—	6 @ 90	4.8	
Coleman Powermate P024-0112SP	40	6	PSA	N	10,000	—	4 @ 90	4.2	
Craftsman 1997	70	6	PSA	N	8,500 - 10,000	—	4 @ 90	4	External regulator for precise speed control.
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 4408DF	250	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.
Jet JSG-0414	117	8	PSA	N	2,000	—	5 @ 90	5	

KEY: Pad Type: HL = hook/loop, PSA = pressure-sensitive adhesive. Dust Collection: DB = dust bag, DC = dust canister, VP = vacuum port. Y = yes. N = no. OPT = optional. — = not applicable.
New models in red. ● = Tested model: recommended. (See page 4.)

See page 152
for listing of manufacturers.

advertiser index

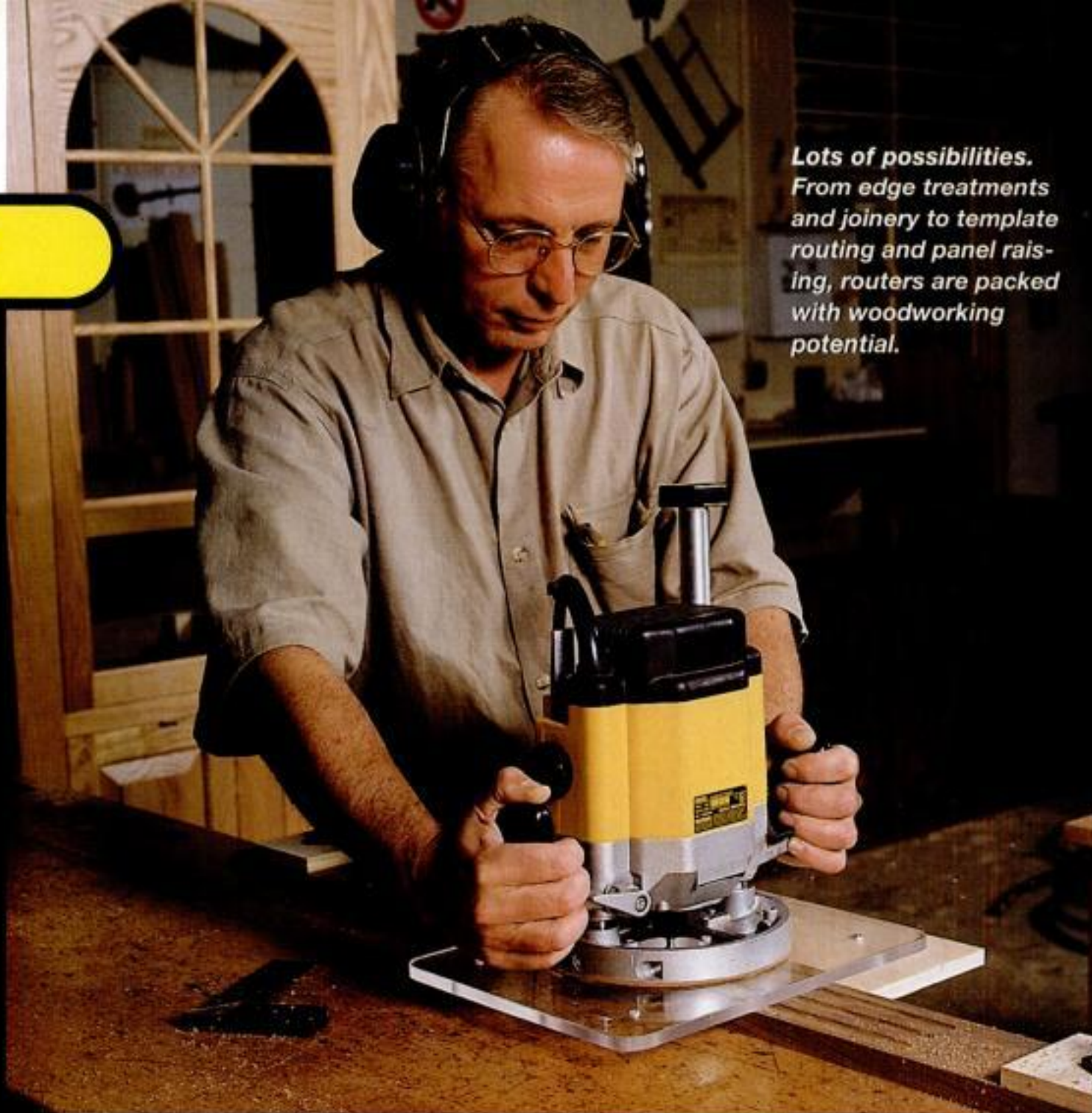
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Routers

A router is widely regarded as the most versatile woodworking power tool. It can do a surprising number of jobs, from cutting joints to profiling edges to creating duplicate parts by following a template or pattern. With the appropriate jig, a router can surface and joint boards, and cut circles and ellipses. Moreover, when mounted upside down 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 doors.

The range of bits, jigs, and accessories for the router is impressive and growing. It's no wonder many woodworkers own several different sizes and types.

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



2 Types of routers

Fixed Base

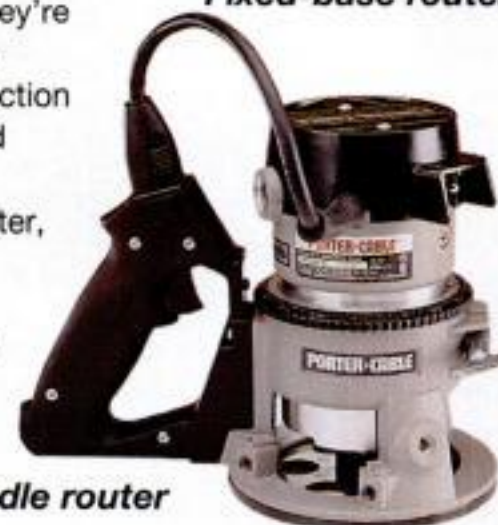
With a fixed-base router, you set the depth of cut and don't change it while the router is running. As long as you hold the base firmly against the work, the depth of cut will remain constant.

Routers in this category are excellent for routing edges, for making template-guided cuts, and for general handheld use. Smaller fixed-base routers—in the 1-HP to 1¾-HP range—are handy to use with dovetail and other jigs because they're fairly lightweight. [\(See chart, page 132.\)](#) Heavier, higher-horsepower fixed-base routers are widely used in production settings. A fixed-base router will also work well mounted in a router table.

A subset of the fixed-based routers is the D-handle router, preferred by many woodworkers. This handle is easy to grip firmly and provides excellent directional control of the router, even when it is guided by one hand. A trigger 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

Regardless of the router type, one basic rule applies: More power means larger size. The smallest routers, rated at $7/8$ to $1\frac{3}{4}$ HP, weigh between 5 and 12 lb. The most powerful routers, with 3- to $3\frac{1}{2}$ -HP motors, weigh between 11 and 18 lb.

For router-table work and 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 $1/2$ -in.-dia. shanks. With the proper collet or a $1/4$ -in. bushing, you'll also be able to use $1/4$ -in. shank bits.

Weight and bulk are the main drawbacks of a powerful router. Because a big machine often is too unwieldy for common hand-held operations, many woodworkers end up with at least two routers: a 1- to $1\frac{1}{2}$ -HP model that's easy to maneuver, and a larger, more powerful router for heavier shaping.

Electronic Variable Speed

The typical router cruises at 22,000 rpm, a speed that's fine for bits less than 1-in. dia., but way too fast for 2- or 3-in.-dia. bits. What's more, switching on the router accelerates large bits to cruising speed with a mighty jerk. This is why electronic variable speed (EVS) is important. EVS allows you to dial back the speed at which the router operates, making it safer to use large bits. Some models with EVS sport a "soft-start" feature, which brings the motor up to speed progressively, eliminating the disconcerting jerk.

Bit Changing

Two features contribute to easy bit changing: spindle locks and self-ejecting collets. Spindle locks enable you to loosen the collet



Easy bit changing. With a spindle lock and a self-ejecting collet, bit changing is a breeze.

with only one wrench. (See photo, above.) Self-ejecting collets do just what their name implies—they spit out the bit once the collet is loosened.

Switch

Handle-mounted trigger switches are more accessible and safer than body-mounted switches. But in a router table, a trigger switch is more difficult to reach than a body-mounted rocker switch.

Plunge Lock

On some plunge router models, the plunge action is locked until you press the lock lever or button. On other machines, plunge action remains unlocked until you manually lock it. You'll have to choose which sequence is best for you.



Upside-down adjustments. A depth-adjustment knob, which is standard on some plunge routers, makes it easy to adjust bit height when the router is hung in a router table.

Plunge

In contrast to the fixed-based router, the plunge router allows you to lower the spinning bit into the work in a controlled manner, so you can begin and end a cut in the middle of a workpiece. This makes a plunge router perfect for cutting mortises, stopped grooves, or incised letters. To plunge the router, you push the motor housing down on a pair of posts. Springs in the posts return the housing back up to clear the bit of the work.

A plunge router can also work just like a fixed-base router. Set up with a depth-adjustment knob, a plunge router works well in a router table. This range of features explains why plunge routers have become so popular. If you are planning to buy only one router, make it a plunge router.



Plunge router with integral dust collection

Options worth having

Dust collection. Routers with an optional dust shroud can be hooked up to a shop vacuum to collect dust and chips. DeWalt's DW621 router is the only model with an integral dust-collection system. (See photo, left.) A shroud channels dust through an oversize plunge post, which in turn can be connected to a vacuum.

Edge guide. This accessory guides the router by sliding along the edge of the workpiece. It is particularly useful for cutting rabbets and grooves, and, with a plunge router, for cutting mortises.

Template guide bushings. A set of these guide bushings is essential for template and inlay work. Many router jigs call for guide bushings to guide the router.

Routers



Ryobi RE170



Bosch 1617EVS



Porter-Cable 7518



Festo Tooltechnic FO1000E Plus

Brand & Model	List Price	HP	Speeds (rpm)	Collet Sizes (in.)	Trigger Location	Depth Adjustment Range (in.)	Weight (lb.)	Comments & Features
Porter-Cable 100	\$219	7/8	22,000	1/4	B	1 1/2	6.8	Calibrated depth-adj. ring.
Makita 3606	180	1	30,000	1/4	B	3	5.5	Calibrated depth-adj. ring.
Craftsman 17504	60	1 1/2	25,000	1/4	H	1 1/2	7.5	Depth-adj. ring; zero reset ring; spindle lock.
DeWalt DW610	270	1 1/2	25,000	1/4, 1/2	B	2 3/8	7.3	Rack & pinion depth adj.; all metal housing and fan.
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	284	1 1/2	23,000	1/4, 3/8, 1/2	B	1 1/2	8	Self-eject collet.
Porter-Cable 691	307	1 1/2	23,000	1/4, 3/8, 1/2	H	1 1/2	9.3	D handle; self-eject collet.
Ryobi R160	65	1 1/2	25,000	1/4	H	1 1/2	7.5	Dual depth-adj. ring.
Bosch 1617	307	1 3/4	25,000	1/4, 3/8, 1/2, 8 mm	B	1 7/8	7.5	Precision centering system; magnesium body.
Bosch 1618	333	1 3/4	25,000	1/4, 3/8, 1/2, 8 mm	H	1 7/8	8	Precision centering system; magnesium body.
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; spindle lock.
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.
Bosch 1617EVS	349	2	8,000 - 25,000*	1/4, 3/8, 1/2, 8 mm	B	1 7/8	7.7	Precision centering system; magnesium body.
Craftsman 17506	100	2	15,000 - 25,000	1/4	H	1 1/2	9.1	Zero reset; worklight; dust shroud; spindle lock.
Craftsman 27500	130	2	25,000	1/4, 1/2	H	1 1/2	9.1	Zero reset; worklight; spindle lock.
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	
Porter-Cable 7536	415	2 1/2	21,000	1/4, 3/8, 1/2	B	2 1/2	14.5	Self-eject collet.
Porter-Cable 7537	429	2 1/2	21,000	1/4, 3/8, 1/2	H	2 1/2	14.5	D handle; self-eject collet.
Porter-Cable 7518	544	3 1/4	10,000 - 21,000*	1/4, 3/8, 1/2	B	2 1/2	14.5	Self-eject collet.
Porter-Cable 7519	495	3 1/4	21,000*	1/4, 3/8, 1/2	B	2 1/2	15	Self-eject collet.

Brand & Model	List Price	HP	Speeds (rpm)	Collet Sizes (in.)	Max. Plunge Depth (in.)	Trigger Location	Plunge Lock	Weight (lb.)	Comments & Features
Bosch 1614EVS	\$321	1 1/4	12,000 - 23,000	1/4	2**	H	U	8	Micro-depth adj. knob.
Makita 3621	250	1 1/4	24,000	1/4	1 3/8	B	L	5.3	3 plunge stops.
Festo Tooltechnic FO1000E Plus	330	1 1/2	10,000 - 20,000*	1/4, 8 mm	3/4**	H	T	6	Edge guide; dust shroud incl.
Porter-Cable 693	338	1 1/2	23,000	1/4, 3/8, 1/2	2 1/2	B	U	11.5	Self-eject collet.
Skil 1823	113	1 1/2	25,000	1/4	2	H	L	7	Flat top for easy bit changes.
Craftsman 17507	120	1 3/4	15,000 - 25,000	1/4	2	H	U	8.4	Spindle lock.
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 1840	165	1 3/4	25,000	1/4	2**	H	L	7	Guide bushing incl.
Bosch 1613EVS	392	2	12,000 - 22,000*	1/4, 3/8, 1/2, 8 mm	2**	H	U	10	Micro-depth adj. knob.
Craftsman 27510	190	2	22,000	1/4, 1/2	2 1/2**	H	L	11.5	Spindle lock.
DeWalt DW621	370	2	8,000 - 24,000*	1/4, 1/2	2 1/8**	H	T	9	Integral dust collection.
Hitachi M8V	348	2	10,000 - 25,000*	1/4	1 7/8	B	L	6.4	Edge guide; guide bushing incl.
Skil 1845-02	\$205	2	8 - 25,000*	1/4	2**	H	L	7.3	Toolless collet; case, guide bushing incl.
Skil 1845-44	176	2	8 - 25,000*	1/4	2**	H	L	7.3	Guide bushing incl.

KEY: Trigger Location: B = body, H = handle.

Plunge Lock: L = locked when pressed, U = unlocked when pressed, T = twist handle to lock/unlock. *Soft-start. **Has depth-adjustment knob.

New models in red. ● = Tested model: recommended. (See page 4.)

Continued on page 134.

See page 152 for listing of manufacturers.

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Routers



Bosch 1613EVS



Freud FT2000E

See page 152
for listing of manufacturers.

Brand & Model	List Price	HP	Speeds (rpm)	Collet Sizes (in.)	Max. Plunge Depth (in.)	Trigger Location	Plunge Lock	Weight (lb.)	Comments & Features
Bosch 1615	457	3	25,000	1/4, 3/8, 1/2	3	H	U	12	Quick-connect guide bushing holder incl.
DeWalt DW625	544	3	8,000 - 22,000*	1/4, 1/2	27/16**	H	L	11.3	Rack & pinion depth stop.
Hitachi TR12	420	3	22,000	1/4, 3/8, 1/2	27/16	B	L	11	Edge & trim guides, guide bushing incl.
Ryobi RE600	275	3	10,000 - 22,000	1/4, 1/2	23/8**	H	L	13.6	Edge guide incl.
Bosch 1615EVS	578	3 1/4	12,000 - 23,000	1/4, 3/8, 1/2	3**	H	U	12.3	Quick-connect guide bushing holder incl.
Freud FT2000E	410	3 1/4	8,000 - 22,000*	1/4, 1/2	23/4**	B	L	12.9	Dust shroud incl.
Makita 3612	397	3 1/4	22,000	1/4, 1/2	23/8**	B	L	13.2	Electronic brake.
Makita 3612 C	559	3 1/4	9,000 - 22,000	1/4, 1/2	23/8**	B	L	13.2	
Porter-Cable 7538	515	3 1/4	21,000	1/4, 3/8, 1/2	3	H	U	17.3	Self-eject collet.
Porter-Cable 7539	564	3 1/4	10,000 - 21,000*	1/4, 3/8, 1/2	3	H	U	17.3	Self-eject collet.
Craftsman 27511	250	3 1/2	10,000 - 22,000*	1/4, 1/2	2 1/2**	H	L	13	Edge guide incl.
Hitachi M12V	491	3 1/2	8,000 - 20,000*	1/4, 3/8, 1/2	27/16**	B	L	11.7	Edge guide; guide bushing incl.

KEY: Trigger Location: B = body, H = handle. **Plunge Lock:** L = locked when pressed, U = unlocked when pressed, T = twist handle to lock/unlock. *Soft-start. **Has depth-adjustment knob.

New models in red. ● = Recommended based on AW shop testing.

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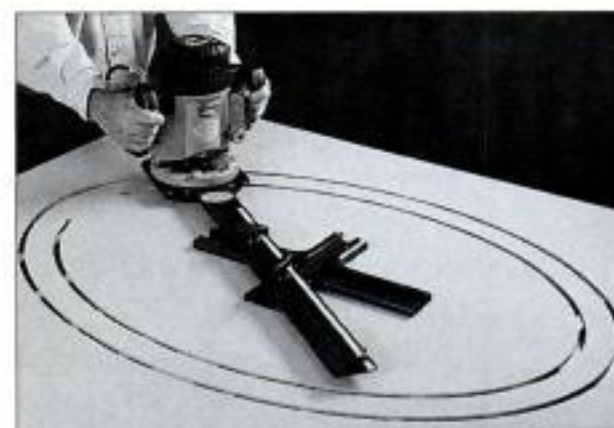
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Roundover Bits with Bearing

1/4" Shank	Radius	
WL-1040	1/16"	\$9.
WL-1041	1/8"	\$9.
WL-1042	3/16"	\$9.
WL-1043	1/4"	\$9.
WL-1044	5/16"	\$10.
WL-1045	3/8"	\$11.
WL-1046	1/2"	\$13.

1/2" Shank		
WL-1049	1/8"	\$9.
WL-1042-5	3/16"	\$9.
WL-1050	1/4"	\$9.
WL-1044-5	5/16"	\$10.
WL-1051	3/8"	\$12.
WL-1052	1/2"	\$13.
WL-1053	5/8"	\$16.
WL-1054	3/4"	\$18.
WL-1055	7/8"	\$25.
WL-1056	1"	\$27.
WL-1057	1-1/8"	\$30.
WL-1058	1-1/4"	\$30.



Bullnose Bits with Bearing

1/4" Shank • Bead	
Opening	
WL-1100	1/4" \$12.
WL-1101	3/8" \$14.
WL-1102	1/2" \$16.
WL-1103	5/8" \$18.
WL-1104	3/4" \$19.
1/2" Shank	
WL-1110	1/4" \$12.
WL-1111	3/8" \$14.
WL-1112	1/2" \$16.
WL-1113	5/8" \$18.
WL-1114	3/4" \$19.
WL-1115	1" \$22.
WL-1116	1-1/8" \$25.
WL-1117	1-1/4" \$28.
WL-1118	1-1/2" \$32.



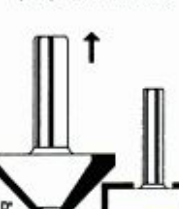
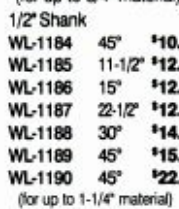
1/4" Shank • Radius	
WL-1159	1/8" \$10.
WL-1160	3/16" \$10.
WL-1161	1/4" \$11.
WL-1162	3/8" \$13.
WL-1163	1/2" \$14.

Cove Bits (continued)

1/2" Shank		
WL-1169	1/8"	\$10.
WL-1170	1/4"	\$11.
WL-1171	3/8"	\$13.
WL-1172	1/2"	\$14.
WL-1173	5/8"	\$18.
WL-1174	3/4"	\$20.

Chamfer Bits

1/4" Shank • Degree		
WL-1180	15°	\$10.
WL-1181	25°	\$10.
WL-1182	45°	\$12.
WL-1183	45°	\$14.
(for up to 3/4" material)		
WL-1184	45°	\$10.
WL-1185	11-1/2°	\$12.
WL-1186	15°	\$12.
WL-1187	22-1/2°	\$12.
WL-1188	30°	\$14.
WL-1189	45°	\$15.
WL-1190	45°	\$22.
(for up to 1-1/4" material)		



1/4" Shank • Kerf		
WL-1220	1/2"	\$11.
WL-1220-2	1/16"	\$10.
WL-1220-3	1/8"	\$10.
WL-1220-4	1/4"	\$10.
WL-1220-5	3/8"	\$10.
1/2" Shank		
WL-1225	1/2"	\$11.
WL-1225-2	1/16"	\$10.
WL-1225-3	1/8"	\$10.
WL-1225-4	1/4"	\$10.
WL-1225-5	3/8"	\$10.
WL-1225-6	3/4"	\$12.

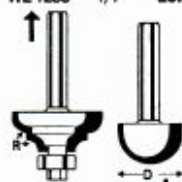
1/4" Shank • Radius		
WL-1230	5/32"	\$13.
WL-1231	1/4"	\$15.
1/2" Shank		
WL-1235	5/32"	\$13.
WL-1236	1/4"	\$15.

1/4" Shank • Radius		
WL-1240	5/32"	\$18.
WL-1241	1/4"	\$20.
1/2" Shank		
WL-1245	5/32"	\$18.
WL-1246	1/4"	\$20.

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ROUTER TABLE

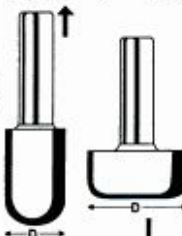
Classical Ogee Bits

1/4" Shank • Radius		
WL-1250	5/32"	\$18.
WL-1251	1/4"	\$20.
1/2" Shank		
WL-1252	5/32"	\$18.
WL-1253	1/4"	\$20.



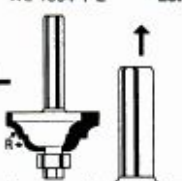
1/4" Shank • Diameter		
WL-1370	1/8"	\$10.
WL-1371	1/4"	\$8.
WL-1371-1	3/8"	\$9.
WL-1372	1/2"	\$10.
WL-1373	3/4"	\$12.

1/2" Shank • Diameter		
WL-1375	1/4"	\$8.
WL-1375-1	3/8"	\$11.
WL-1376	1/2"	\$12.
WL-1377	3/4"	\$14.
WL-1378	1"	\$16.



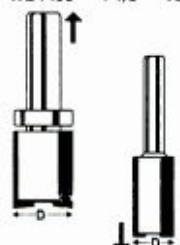
1/4" Shank • Diameter		
WL-1380	7/16"	\$13.
WL-1381	3/4"	\$15.
1/2" Shank		
WL-1385	3/4"	\$15.
WL-1386	1-1/4"	\$18.

1/4" Shank • Diameter		
WL-1390	3/4"	\$12.
1/2" Shank		
WL-1391	3/4"	\$12.
WL-1392	1"	\$14.
WL-1393	1-1/4"	\$15.
WL-1394	1-1/2"	\$16.
WL-1394-1	2"	\$28.

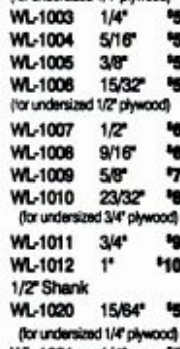


Pattern Cutting Bit

1/4" Shank • Diameter		
WL-1400	1/2"	\$12.
WL-1401	5/8"	\$12.
WL-1402	3/4"	\$12.
1/2" Shank		
WL-1405	3/4"	\$15.
WL-1406	1-1/8"	\$16.



1/4" Shank • Diameter		
WL-1001	1/8"	\$10.
WL-1002	3/16"	\$5.
WL-1002-5.5	5.5mm	\$5.
(for undersized 1/4" plywood)		
WL-1003	1/4"	\$5.
WL-1004	5/16"	\$5.
WL-1005	3/8"	\$5.
WL-1006	15/32"	\$5.
(for undersized 1/2" plywood)		
WL-1007	1/2"	\$6.
WL-1008	9/16"	\$6.
WL-1009	5/8"	\$7.
WL-1010	23/32"	\$8.
(for undersized 3/4" plywood)		
WL-1011	3/4"	\$9.
WL-1012	1"	\$10.
1/2" Shank		
WL-1020	15/64"	\$5.
(for undersized 1/4" plywood)		
WL-1021	1/4"	\$5.
WL-1019	5/16"	\$5.
WL-1022	3/8"	\$5.
WL-1023	7/16"	\$5.
WL-1024	15/32"	\$5.
(for undersized 1/2" plywood)		
WL-1025	1/2"	\$6.
WL-1027	5/8"	\$8.
WL-1028	23/32"	\$8.
(for undersized 3/4" plywood)		
WL-1029	3/4"	\$9.



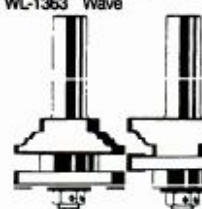
1/4" Shank • Diameter		
WL-1420-2	1/4" shank	\$25.
For 1/2" to 3/4" material		
WL-1420-1	1/2" shank	\$30.
For material 3/4" to 1-1/4"		
WL-1420	1/2" shank	\$38.



For the Shaper
Lock Mitre WL-1581 \$40.

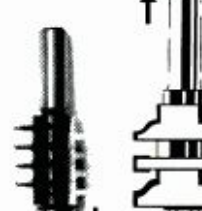


Horizontal Panel Raiser with Undercutter • 1/2" Shank		
WL-1346	Ogee	\$49.
WL-1347	Traditional	\$49.
WL-1348	Convex (Cove)	\$49.
WL-1359	12" Facecut with Quarter Round	\$49.
WL-1363	Wave	\$49.



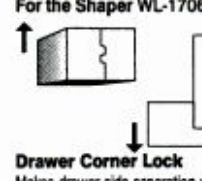
2-piece Rail & Stile Cutter Sets		
1/2" Shank	Set	
WL-1360	Ogee Profile	\$59.
WL-1361	Roundover	\$59.
WL-1362	Cove & Bead	\$59.

1-piece Rail & Stile Cutter Sets		
Just raise the cutter to make the matching cut. No changing or reversing.		
1/2" Shank		
WL-1365	Ogee Profile	\$49.
WL-1366	Roundover	\$49.
WL-1367	Cove & Bead	\$49.
WL-1368	Wedge	\$49.
WL-1374	Dbl Roundover	\$49.



Finger Joiner Router Bit		
WL-1429		\$39.
For the Shaper WL-1580 \$89.		

Reversible Glue Joint		
WL-1430	1-3/4" Diam	\$35.
For the Shaper WL-1706 \$35.		



Drawer Corner Lock
Makes drawer side separation virtually impossible
1/2" Shank
WL-1435 For 1/2" material \$30.

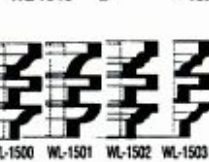
SHAPER CUTTERS 3/4" BORE

Corner Round		
WL-1509	1/8"	\$22.
WL-1510	1/4"	\$24.
WL-1511	3/8"	\$26.
WL-1512	1/2"	\$26.
WL-1513	3/4"	\$30.
WL-1514	1"	\$32.
WL-1515	1-1/4"	\$38.

Bead		
WL-1520	1/4"	\$24.
WL-1521	3/8"	\$26.
WL-1522	1/2"	\$26.
WL-1523	3/4"	\$28.
WL-1524	1"	\$30.

Flute		
WL-1530	1/4"	\$24.
WL-1531	3/8"	\$26.
WL-1532	1/2"	\$26.
WL-1533	3/4"	\$28.
WL-1534	1"	\$30.

Rabbeting/Straight		
WL-1540	1/4"	\$24.
WL-1541	3/8"	\$26.
WL-1542	1/2"	\$26.
WL-1543	3/4"	\$28.
WL-1544	1"	\$30.
WL-1545	1-1/2"	\$32.
WL-1546	2"	\$48.



SHAPER CUTTERS 3/4" BORE		
1-piece Rail & Stile		
Just raise the cutter to make the matching cut. No changing or reversing.		
WL-1500	Roman Ogee	\$89.
WL-1501	Roundover	\$89.
WL-1502	Cove & Bead	\$89.
WL-1503	Dbl Roundover	\$89.

WL-1600		
WL-1601		
WL-1602		
WL-1603		
WL-1604		
WL-1605		

Panel Raisers (Shaper Cutter)		
3/4" Bore		
WL-1600	Ogee	\$59.
WL-1601	15" Facecut	\$59.
WL-1602	18" Traditional	\$59.
WL-1603	Convex (Cove)	\$59.
WL-1604	12" Facecut with Quarter Round	\$59.
WL-1605	Wave	\$59.

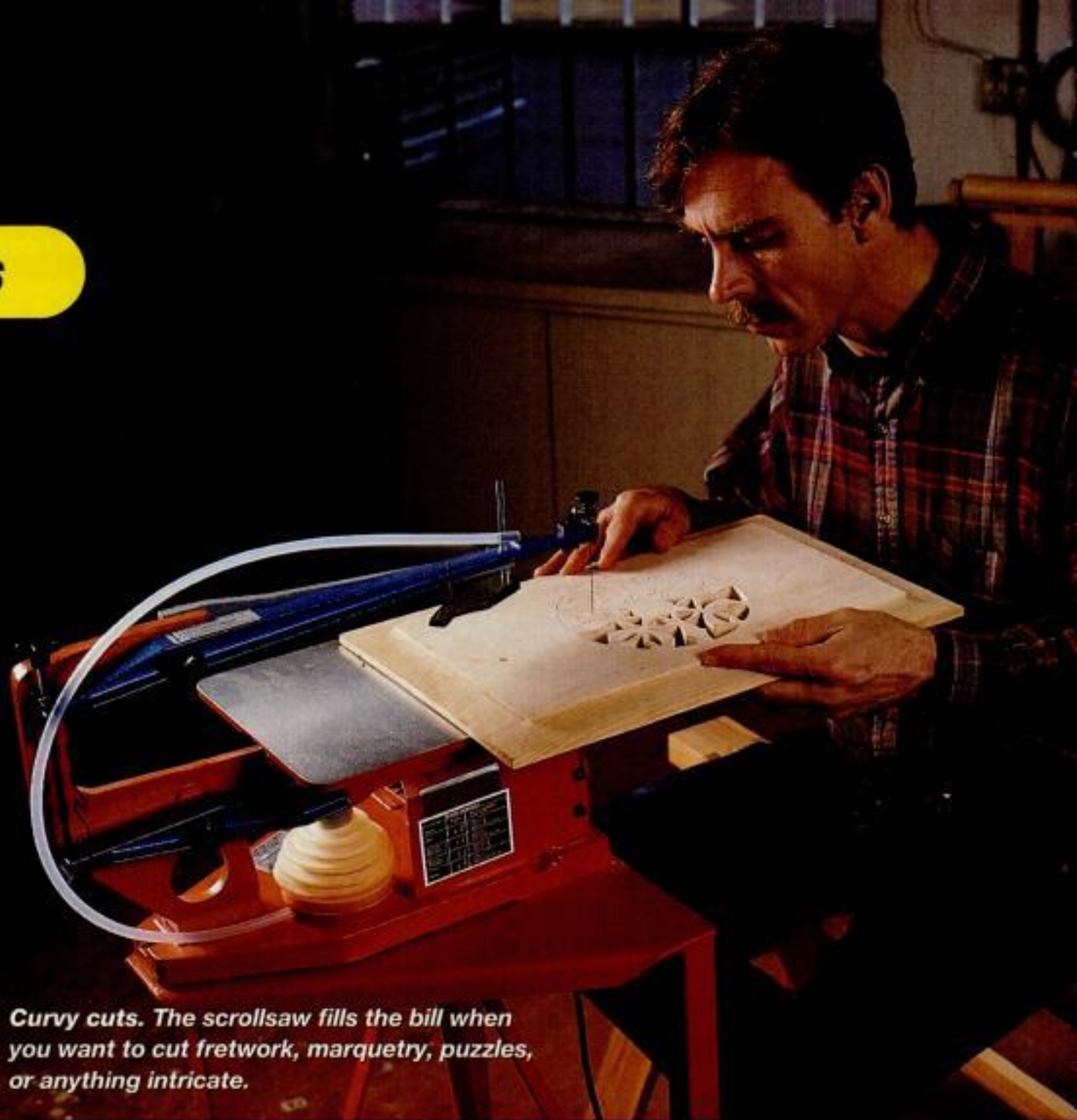
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Scrollsaws

When you're tired of cutting straight lines, there's no better place to be than in front of a scrollsaw. The delicate blade on a scrollsaw moves up and down between two reciprocating arms, letting you saw intricate curves. The cuts are so smooth, there's often no need to sand. You can make pierced or inside cuts, or saw interlocking pieces to make puzzles. Scrollsaws can also cut paper, leather, metal, glass, and cloth.

The most important criteria in evaluating scrollsaws are cutting speed and accuracy, which depend largely on the reciprocating mechanism's design. Quiet, vibration-free operation and easy blade changing are also critical.



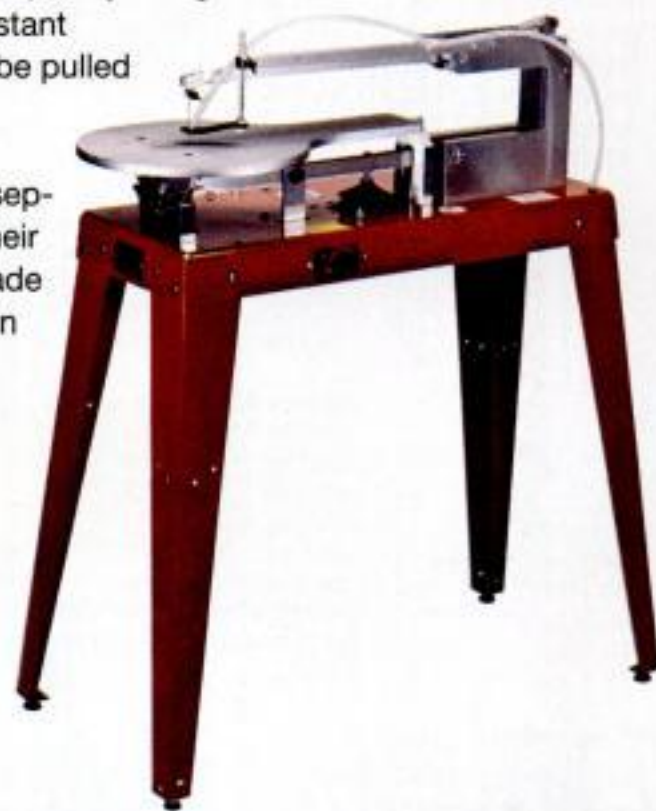
Curvy cuts. The scrollsaw fills the bill when you want to cut fretwork, marquetry, puzzles, or anything intricate.

3 Types of scrollsaws

Parallel Arm

Today's scrollsaws are a far cry from the old rigid-arm designs, in which a plunger-and-spring mechanism moved the blade up and down. Contemporary designs have pivoting arms that keep the blade under constant tension—so there's less tendency for the work to be pulled upward during cutting, less blade breakage, and more accurate cuts.

On the parallel-arm saw, though the arms pivot separately on the saw frame, they are connected at their back ends by a threaded rod, as well as by the blade at the front. The blade moves straight up and down in a cutting action that's good for extra-fine work and anywhere you need a perfectly square cut.



Features to consider

Benchtop vs. Floor Model

Scrollsaws vibrate due to their reciprocating motion. Excessive vibration, however, contributes to inaccurate cuts, frequent blade breakage, and operator fatigue. Sheer mass and rigid stands help dampen vibration.

Some floor models are simply benchtoppers mounted on a welded-steel stand. Bolt the saw to a sturdy workbench if a stand isn't available. And if you do a lot of scrollsaw work, look at the heavy-duty floor models.

Throat Depth

Scrollsaw size is designated by throat depth—the distance from the blade to the back of the saw's arm or arms—which determines how far in from the edge of a workpiece the saw will cut. Throat depth ranges from 14 in. to 30 in. deep.

Cutting Speed

Scrollsaws are available in single-, multiple-, and variable-speed models. Speed is measured in strokes per minute (spm). Generally, the saws cut wood most efficiently at maximum speed—up to 2,000 spm. Lower speeds are good for plastics and metals and for intricate cuts in very thin stock.

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 with an electronic variable speed (EVS) control. Many serious scrollsaw users favor EVS control, which provides infinite, convenient adjustment over the tool's speed range.

Parallel Link

The parallel link design, available on Excalibur and DeWalt scrollsaws, also has a vertical cutting action. Instead of moving up and down, the arms slide forward and backward, pushing and pulling on small levers that hold the saw blade. These levers pivot, moving the blade up and down.



C-Arm

On saws of this design, the blade is held between the ends of a single C-shaped arm that pivots up and down. Since the C-arm's saw blade moves in a slight arc, the cutting action is more aggressive and tends to be slightly rougher than the cutting action of a parallel-arm saw.



Table Tilt

Nearly all tables tilt at least 45° in one direction. On a table that tilts both ways, you can cut dovetails. On better saws, the table is supported by sturdy dual trunnions that adjust smoothly and lock firmly.

Blade Changing

A scrollsaw blade can break easily if you're making sharp turns in thick material. So quick and easy blade changing is important.

Pin-end blades typically are used on low-end saws. The "pins" are cradled in the saw's blade locks. The blade is easier to mount and less prone to slippage than the plain-end blade.

Plain-end blades are pinched between the blade-clamp jaws, which typically require an allen wrench or other tool. Some saws have "quick-release" blade clamps that don't require tools. Plain-end blades are available in a greater variety than pin-ends.



Switch and Guard

An easily accessible on/off switch will aid safety and convenience. The hold-down/blade guard should adjust easily, lock positively, and press the stock firmly against the table without obscuring the cutline.

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

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 suppliers.

Foot switch. This remote switch frees up both hands to maneuver the workpiece, even when you're turning the machine on and off.

Quick-change blade holders. Make blade-changing easy with these quick-release holders. They're standard on some scrollsaws (see chart, page 138), but they can be added to most saws. Aftermarket "quick clamps" are available from Seyco Sales, (800) 462-3353.

Magnifier lamps. A magnifying lens and adjustable lamp help you see tiny details better.

Scrollsaws



Dremel 1672



Ridgid SS1650



Ryobi SC165VS



Delta Q3 40-650



RBI Hawk 220 Ultra

See page 152
for listing of manufacturers.

BENCHTOP

FLOOR

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 L-R(°)	Weight (lb.)	Comments & Features
Delta 40-530	\$153	16	2	PA	Y	N	RS	1,750	45 - 0	40	Dust blower.
Delta 40-540	243	16	2	PA	Y	Y	EVS	2 (600, 1,800)	45 - 0	46.5	Quickset II blade holder.
Delta 40-560 Type 2	230	16	2	PA	Y	Y	RS	2 (850, 1,725)	45 - 0	46.5	Quickset II blade holder.
Dremel 1672	189	16	2	PA	Y	Y	RS	2 (890, 1,790)	45 - 0	45	Blade/wrench storage.
Grizzly G1257	170	16	2	CA	N	N	EVS	400 - 1,800	0 - 45	40	Dust blower.
Grizzly G5776	120	16	2	CA	N	N	EVS	400 - 1,500	0 - 45	40	Dust blower.
Makita SJ401	341	16	2	PA	Y	Y	EVS	400 - 1,600	45 - 15	31.4	Dust blower.
Pro-Tech 3303	169	16	2	PA	N	Y	EVS	400 - 1,600	50 - 15	29	
Ridgid SS1650	169	16	2	PA	N	Y	EVS	500 - 1,700	45 - 0	35	Toolless blade change.
Ryobi SC155	99	16	2	PA	Y	N	—	1,750	45 - 0	30	Dust blower.
Ryobi SC165VS	169	16	2	PA	Y	Y	EVS	500 - 1,700	10-45	27	Dust blower; side dust port.
Tradesman 8354SL	89	16	2	PA	Y	Y	—	1,725	45 - 0	46	Dust blower; cast-iron table.
Tradesman 8368	179	16	2	PA	Y	Y	EVS	400 - 1,800	45 - 45	40	Dust blower; cast-iron table; light.
DeWalt DW788	816	20	2	PL	Y	Y	EVS	400 - 1,750	45 - 45	56	Opt. stand; up-front controls.
Grizzly G1060	160	22	2	CA	N	N	—	1,720	0 - 30	61	Dust blower.
Lobo JS-0022	159	22	2	CA	Y	N	—	1,720	15 - 45	65	Dust blower.
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 216 Ultra	899	16	2 1/8	PA	N	Y	EVS	300 - 1,725	45 - 45	79	Set tension by visual reference.
Delta Q3 40-650	600	18	2	CA	Y	Y	EVS	2 (300, 2,000)	9 - 45	90	Upper and lower Quick Set II blade holders.
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.
Excalibur EX19NM	799	19	2	PL	Y	Y	SP	3 (400, 1,400)	45 - 30	55	Motor not incl.
Excalibur EX19SD	949	19	2	PL	Y	Y	SP	3 (400, 1,400)	45 - 30	65	Accessories incl; 1/4-HP motor.
Excalibur EX19VS	1,189	19	2	PL	Y	Y	EVS	60 - 1,500	45 - 30	65	Accessories incl.
Excalibur EX19VSXX	1,349	19	2	PL	Y	Y	EVS	0 - 1,500	45 - 30	75	Foot switch.
Hegner Polymax	2,499	20	2	PA	N	Y	SP	700 - 1,600	45 - 0	100	Built for industrial use.
RBI Hawk 220 Ultra	1,199	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	1,274	20	2 5/8	PA	Y	Y	EVS	300 - 1,725	45 - 45	93	Safety features for handicapped.
Shopsmith 555685	850	20	2	PA	Y	Y	EVS	500 - 1,450	45 - 45	85	16 x 32-in. table.
PS Wood 21	799	21	2 1/2	PA	Y	Y	SP	5 (170, 1,370)	45 - 35	85	5-yr. warranty.
PS Wood 21 (EVS)	899	21	2 1/2	PA	Y	Y	EVS	170 - 1,370	45 - 35	90	5-yr. warranty.
Star S4700	675	21	2 1/2	PA	Y	OPT	SP	5 (170, 1,370)	45 - 35	50	
Hegner Multimax 22v	1,399	22	2 5/8	PA	Y	Y	EVS	400 - 1,700	45 - 12	66	6-yr. warranty.
Powermatic 95	1,965	24	1 3/4	FA	N	N	EVS	807 - 1,653	15 - 45	220	115/230V.
RBI Hawk 226 Ultra	1,399	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	1,474	26	2 5/8	PA	Y	Y	EVS	300 - 1,725	45 - 45	97	Safety features for handicapped.
Excalibur EX30VSXX	1,579	30	2	PL	Y	Y	EVS	0 - 1,500	45 - 30	70	Foot switch; accessories incl.

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).

New models in red. ● = Tested model: recommended. (See page 4.)

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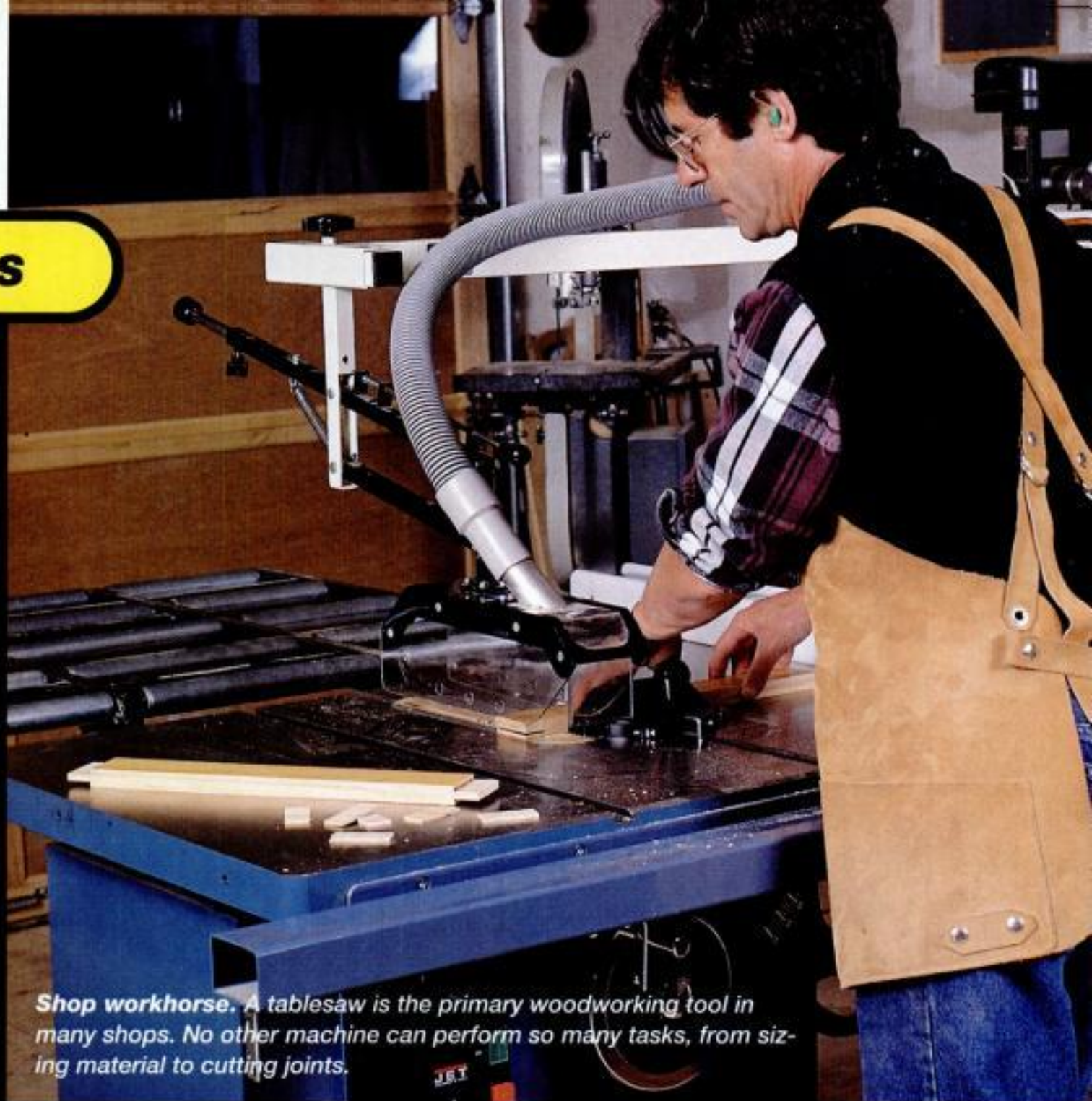
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Tablesaws

Most woodworkers will agree that the tablesaw is the heart of the shop. Certainly, no other stationary tool can do more. It can rip and crosscut, miter, and bevel. It can mill rabbets, dadoes, and grooves, and cut tenons, lap joints, box joints, and even dovetails. Because the tablesaw 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.

The size of a tablesaw is established by the diameter of the largest blade it will handle. Tablesaw types range from modest bench-top saws to mammoth 14-in. cabinet saws.



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.

3 Types of tablesaws

Cabinet

Designed for the professional, the cabinet saw has an enclosed cabinet-like base, a powerful motor (usually 2, 3, or 5 HP), and a multiple V-belt drive to minimize slippage between arbor and motor. Its massive cast-iron trunnion and arbor assemblies transmit power from motor to blade with minimal vibration. To guarantee accuracy and provide durability, its rip fence and rails, miter gauge, handwheels, and switch are all heavy duty.

The 10-in. saw is the most popular, but 12-in. and 14-in. models are also available. While the typical tablesaw tilts its blade to the right for bevel cuts, cabinet saw models with left-tilting blades are available.



Contractor's

Originally designed as a semi-portable jobsite saw for the building trades, today's contractor's saw is full size, and sits on a detachable stand. It has either a cast-iron or a cast-aluminum saw table and bolt-on steel or cast-iron extensions. A 1- to 2-HP induction motor hangs out the back, bolted to a hinged mounting bracket that's connected to the saw's trunnion assembly. A single V-belt transfers



Features to consider

Saw Table

Cast iron remains the first choice for table material, with die-cast aluminum second. The saw table must be dead flat; use a straightedge to check, laying it first corner to corner, then front to back at several locations, and finally side to side. Extension wings are a plus because they increase your working surface and help support large workpieces.

Rip Fence and Rails

A poor rip fence can sink an otherwise good saw.

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

Miter Gauge

The head of the miter gauge must have an accurate scale. Stops at 90° and 45° are handy, as are holes for mounting an auxiliary wood facing. The unit should slide freely in the table slot without sideplay.



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.

Motor

Pick the most powerful motor you can afford—preferably one with built-in overload protection. Be aware that the induction motors that power cabinet and contractor's saws have far more power than the universal motors that drive most benchtop saws, regardless of advertised HP. Induction motors rated at 2 HP or more generally must be run on 230V circuits, while 1½-HP motors run on 115V circuits.

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.

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.



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

power to the arbor. (Some of the lower-priced models have direct-drive motors.) Today, more models are configured with premium fences like those found on cabinet saws.

Balancing performance with price, this saw meets most small-shop demands for accuracy and versatility.

Benchtop

The benchtop saw fills the role of the original contractor's saw. But being smaller, it does have limits. A small top limits its rip capacity, its motor is underpowered but noisy, and neither the rip fence nor the miter gauge is especially precise. A stable bench or base is a must.

Nevertheless, for jobsite service or small-scale work in a cramped shop, a benchtop tablesaw may be just the ticket—it's relatively inexpensive and portable.



Options worth having

Dust collection. Cleanup time can be reduced with a dust collector. Cabinet saws usually have a port for a collector. Contractor's saws are open backed to accommodate the motor, so dust collection is not as efficient.

Outfeed support. An expansive outfeed table mounted to the saw is best. But if space is at a premium, invest instead in a portable outfeed stand. It can also serve as a support for long stock that's being crosscut.

Dado-blade set. For cutting dados, grooves, and rabbets on the tablesaw, you ought to have a dado cutter. The multiple-blade, carbide-tipped sets are the best.

Aftermarket blade guard. Most standard blade guards leave a lot to be desired. Some aftermarket guards allow dado and rabbeting cuts and make blade changing easy.

Tablesaws



DeWalt DW744



Pro-Tech 4106



Ryobi BT3000SX



Bridgewood TSC-10C

BENCHTOP

CONTRACTOR'S

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 (lb.)	Comments & Features
Delta Sidekick 36-275	\$358	8 1/4	2 1/4	12	26 x 20	AL	D	NA	115	15	N	49	T-slot miter gauge groove.
Makita 2702	680	8 1/4	2 1/16	12	27 x 22	AL	D	2 1/2	115	15	Y	40	Rips 2x @ 45°.
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.
Delta 36-540 Type 2	229	10	3	9 7/8	26 x 17 1/4	AL	D	NA	115	13	N	40	T-slot miter gauge groove.
DeWalt DW744	956	10	3 1/8	24 1/2	26 1/2 x 19 1/4	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	650	10	3	15 3/4	34 x 19 5/8	AL	D	2 1/3	115	15	Y	56	T-slot miter gauge groove.
Makita 2703	720	10	3 9/16	12	27 x 22	AL	D	2 1/2	115	15	Y	40	Rips 4x @ 90°.
Pro-Tech 4106	179	10	3	9 7/8	26 x 16	AL	D	2 1/2	115	13	Y	38	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; carbide blade.
Skil 3400	330	10	3	12	26 5/8 x 17 5/8	AL	D	2 1/2	115	13	Y	36	Accu-align fence.
Skil 3400-08	336	10	3	12	26 5/8 x 17 5/8	AL	D	2 1/2	115	13	Y	36	Includes leg set.
Tradesman 8030A	139	10	3 1/8	9 7/8	26 x 17	AL	D	NA	115	13	Y	38	Cam-lock fence; carbide blade.
Tradesman 8035A	189	10	3 1/8	9 7/8	26 x 17	AL	D	NA	115	13	Y	59	Cam-lock fence; carbide blade.
Bridgewood TSC-10C	685	10	3 1/4	40	40 x 27	CI	B	1 1/2	115/230	16/8	N	287	Vega fence.
Delta 34-444	852	10	3 1/8	25	40 x 27	CI	B	2	115/230	12.8/6.4	N	223	Steel ext. wings.
Delta 34-445	1,072	10	3 1/8	25	36 x 27	CI	B	2	115/230	12.8/6.4	N	248	30-in. Unifence.
Delta 36-440	980	10	3 1/8	29	36 x 27	CI	B	2	115/230	12.8/6.4	N	245	29-in. Precision Saw Guide.
Delta 36-450	1,030	10	3 1/8	50	36 x 27	CI	B	2	115/230	12.8/6.4	N	265	50-in. Precision Saw Guide.
Delta 36-460	1,038	10	3 1/8	28	36 x 27	CI	B	2	115/230	12.8/6.4	N	267	28-in. Biesemeyer fence.
Delta 36-470	1,048	10	3 1/8	40	36 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	52	36 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	36 x 27	CI	B	1 1/2	115/230	12.8/6.4	N	286	30-in. Biesemeyer commercial fence.
Delta 36-600	499	10	3 1/8	27	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	188	T-slot miter gauge groove.
Delta 36-640	793	10	3 1/8	29	40 x 27	CI	B	2	115/230	12.8/6.4	Y	202	29-in. Precision Saw Guide.
General Int'l 50-175	1,175	10	3	28	40 x 27	CI	B	2	230	9	N	300	General T-Fence.
General Int'l 50-175L	1,205	10	3	52	40 x 27	CI	B	2	230	9	OPT	320	General T-Fence.
Grizzly G1022	375	10	3 1/8	25	40 1/2 x 27 1/8	CI	B	1 1/2	115/230	16/8	OPT	270	Cast-iron ext. wing; 70-in. ext. tubes opt.
Grizzly G1022Z	449	10	3 1/8	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	18/9	Y	285	Shop Fox fence and U.S. motor.
Grizzly G1022ZFX	700	10	3	25	40 1/2 x 27 1/8	CI	B	2	115	20/10	Y	290	Shop Fox fence and U.S. motor.
Jet JSL-10TS	499	10	3 1/8	27	38 1/2 x 22	CI/S	D	2	115	15	OPT	154	Precision T-style fence.
Jet JWTS-10CW-PF	999	10	3 1/8	30	30 x 27	CI	B	1 1/2	115/230	18/9	Y	310	Incl. ext. wings & legs.

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.

New models in red. ● = Tested model: recommended. (See page 4.)

Continued on page 144.

See page 152
for listing of manufacturers.

One thing's for sure. You don't mess with success. The massive cast iron table and trunnion and power and precision are right where they've been since the day we built the first one of these critters. And we're still building them right here in the good ole US of A.



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Model 36-444

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Tablesaws



Delta 36-490



Jet JWTS-10CW-PFX



Ridgid TS2424



Bridgewood BW-10HK

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 (lb.)	Comments & Features
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	Incl. ext. wings & 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.
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 ext. wings.
North State TSL-10L	485	10	3 1/4	26	27 x 40	CI	B	2	115/230	NA	N	NA	Biesemeyer, Vega, or Excalibur fence.
Powermatic 64A	1026	10	3 1/8	30	40 x 27	CI	B	1 1/2	115/230	18/9	Y	320	Left tilt; cast-iron ext. wing.
Ridgid TS2412	469	10	3 3/8	24	44 x 27	CI	B	1 1/2	115	13	OPT	217	Kerf indicator.
Ridgid TS2424	649	10	3 3/8	24	44 x 27	CI	B	1 1/2	115/230	13/6.5	OPT	236	Mobile casters incl.
Star S3201	395	10	3 1/8	25	40 x 27	CI	B	1 1/2	115/230	16/8	Y	285	Fence micro-adjust; cast-iron ext. wing.
Star S3205	599	10	3 1/8	36	40 x 27	CI	B	2	115/230	24/12	Y	350	Fence micro-adjust; opt. sliding table.
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 MS10	385	10	3	30	40 x 27	CI	B	2	115/230	24/12	N	255	
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 ext. wings
Bridgewood BW-10HK	1,195	10	3	50	27 x 40	CI	B	3	230	18	Y	475	General T-50 fence.
Craftsman 22654	1,499	10	3	25	36 x 27	CI	B	2	230	9	Y	570	5/8-in. dado insert; key lock switch.
Delta 34-782	2,397	10	3 1/8	52	36 x 27	CI	B	3	230	NA	Y	428	52-in. Unifence.
Delta 34-782L	2,397	10	3 1/8	52	36 x 27	CI	B	3	230	NA	Y	428	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	447	52-in. Unifence.
Delta 36-755	1,548	10	3 1/8	25	36 x 27	CI	B	2	230	12	Y	255	T-slot miter gauge groove.
Delta 36-820	2,209	10	3 1/8	52	36 x 27	CI	B	3	230	17	Y	435	52-in. Unifence.
Delta 36-820L	2,209	10	3 1/8	52	36 x 27	CI	B	3	230	12.4	Y	435	Left-tilting blade.
Delta 36-821	2,209	10	3 1/8	50	36 x 27	CI	B	3	230	12.4	Y	457	50-in. Biesemeyer commercial fence.
Delta 36-821L	2,209	10	3 1/8	50	36 x 27	CI	B	3	230	12.4	Y	457	Left-tilting blade.
Delta 36-882	2,397	10	3 1/8	50	36 x 27	CI	B	3	230	NA	Y	450	50-in. Biesemeyer commercial fence.
Delta 36-882L	2,397	10	3 1/8	50	36 x 27	CI	B	3	230	NA	Y	450	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 opt.
General S350-T50	1,995	10	3 1/8	50	28 x 72	CI, AL	B	3	230	12	Y	460	
General Int'l 50-275	2,350	10	3	52	36 x 27	CI	B	3	230	12	Y	450	General T-Fence.
Grizzly G1023	725	10	3 1/8	26	36 5/8 x 27	CI	B	3	230	18	OPT	425	2 table 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	2,395	10	3	60	27 x 31	AL	B	2 1/2	230	15	Y	145	
Jet JTAS-10X50-1	1,869	10	3 1/8	50	40 x 27	CI	B	3	230	17	Y	489	Motor cover; Xacta fence.
Jet JTAS-10X50-3	2,149	10	3 1/8	50	40 x 27	CI	B	5	230/460	15/7.5	Y	562	Motor cover; Xacta fence.
Jet JTAS-10XL50-1	2,099	10	3 1/8	50	40 x 27	CI	B	3	230/460	15/7.5	Y	562	Left-tilting blade; Xacta fence.
Jet JTAS-10XL50-3	2,099	10	3 1/8	50	40 x 27	CI	B	5	230/460	15/7.5	Y	562	Motor cover; Xacta fence.

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.

New models in red. ● = Tested model: recommended. (See page 4.)

Continued on page 146.

See page 152 for listing of manufacturers.

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Tablesaws

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 (lb.)	Comments & Features
Jet JTAS-10XL50-5/1	\$2,099	10	3 1/8	50	40 x 27	CI	B	5	230/460	15/7.5	Y	572	Motor cover; Xacta fence.
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 JWCS-10PFX	1,869	10	3 1/8	30	40 x 27	CI	B	2	230	15	Y	369	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 SC-2	2,995	10	3	51	22 x 33	CI	B	3 3/5	230	14	Y	616	Sliding table; over-arm guard.
North State MBS 250	1,150	10	3 1/8	50	36 x 27	CI	B	3	230	16	Y	450	Biesemeyer, Vega, or Excalibur fence.
North State TSC-10HK	995	10	3 1/4	50	40 1/2 x 27	CI	B	3	230	16	Y	450	Biesemeyer fence.
Powermatic 66	2,529	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; opt. 5 HP, 4,200 rpm.
Star S3202	1,125	10	3 1/8	36	36 x 27	CI	B	3	230	15	Y	425	Sliding table; 56-in. fence opt.
Star S3204	1,300	10	3 1/8	36	36 x 27	CI	B	5	230	35	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 opt.
Transpower MBS-250	1,150	10	3	30	36 x 27	CI	B	3	230	18	Y	495	Fence has guide bearing.
Bridgewood BW-12CS	1,595	10 & 12	4	50	29 x 44	CI	B	3	230	18	Y	530	5/8-in. and 1-in. interchangeable arbors.
Craftsman 22652	2,049	12	4	39 3/4	48 x 30	CI	B	3	230	16	Y	648	5/8-in. & 1-in. dado insert; key lock switch.
General Int'l 50-375	2,650	12	4	52	48 x 30	CI	B	3	230	12	Y	625	General T-Fence.
Grizzly G5959	1,495	12	4	53	48 x 30	CI	B	5	230	27	Y	620	Dual arbors.
Inca 2200	3,395	12	4 1/8	50	22 x 26	CI	B	3	230	18	Y	400	
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.
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.
Mini Max S1	9,695	12	4	59	22 x 34	CI	B	9	230	25	Y	1,575	Sliding table; over-arm guard.
Mini Max S300W	7,995	12	4	54	34 x 23	CI	B	7 1/2	230	24	Y	1,280	Sliding table; over-arm guard.
North State MBS-300	1,975	12	4	50	30 x 48	CI	B	5	230	NA	Y	750	Biesemeyer, Vega, or Excalibur fence.
Seco SK-1212TS	1,841	12	4	78	48 x 30	CI	B	5	230	25	Y	704	1-in. arbor; 4,000 rpm.
Star S3206	1,750	12	4	36	40 x 29	CI	B	5	230	35	Y	500	Motor cover; 56-in. fence opt.
Sunhill MBS-350	2,750	12	4	49	48 x 38	CI	B	5	230	NA	Y	1,000	7 1/2-HP motor opt.
Transpower TSC-12HK	950	12	4	30	40 x 27	CI	B	3	230	18	Y	425	
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 opt.
North State MBS-350	2,990	14	5	50	38 x 48	CI	B	5	230	NA	Y	1,075	Biesemeyer, Vega, or Excalibur fence.
Powermatic 72-A	4,512	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; 3,750 rpm.

CABINET

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.

New models in red. ● = Tested model: recommended. (See page 4.)



Craftsman 22654



General 350-1-M1



Powermatic 66



Star S3202

See page 152
for listing of manufacturers.

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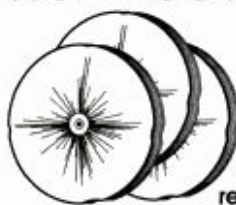
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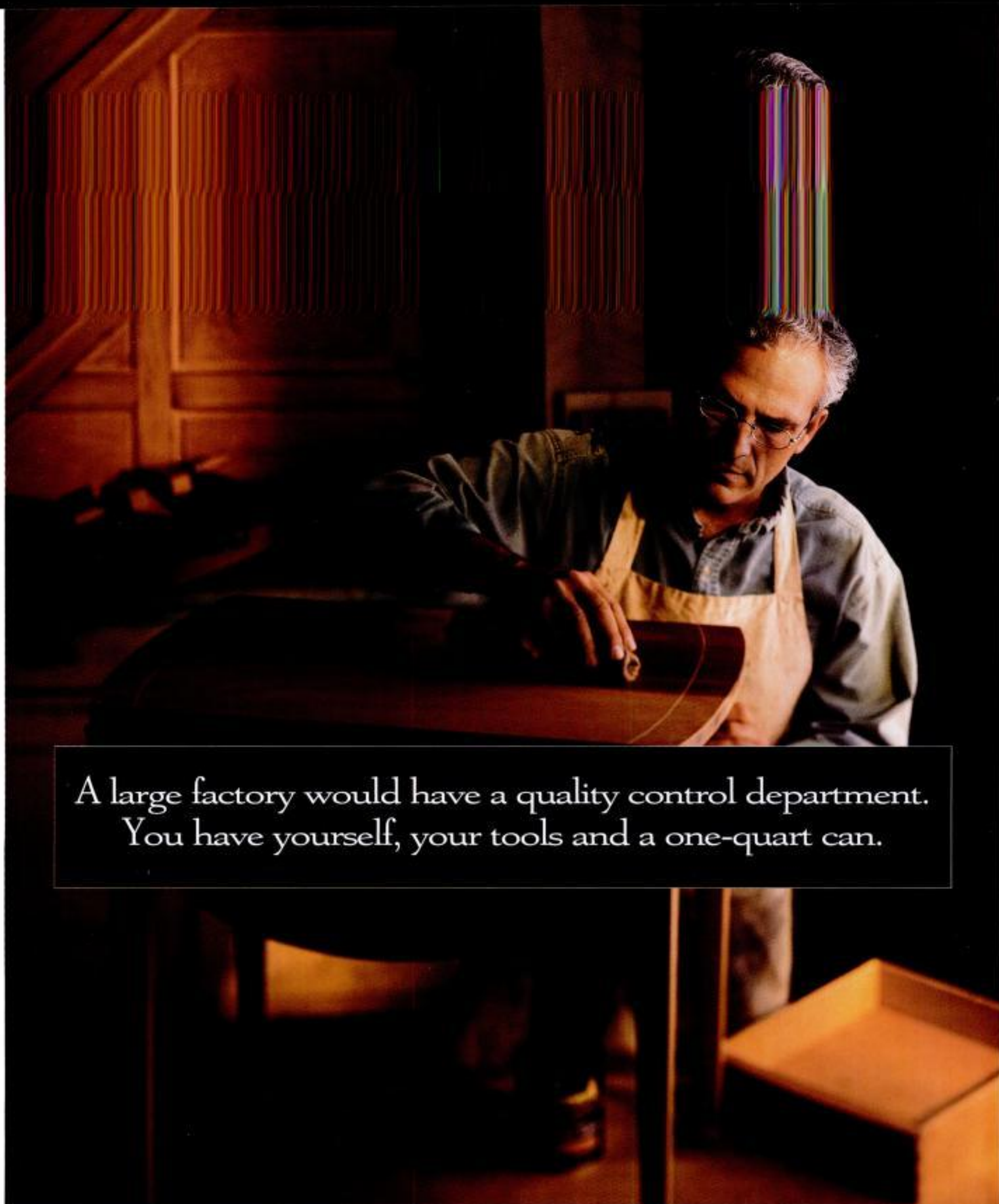
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