

Powr-Kraft Electric Drill Kits . . . Have

POWR-KRAFT 1/4-IN. DRILL KIT . . . OUR LOWEST PRICED KIT 15.95

POWR-KRAFT 1/4-IN. DRILL KIT 32.95

A 30-PIECE LIGHT-DUTY KIT. Now you can own an electric drill kit without a large investment. Designed especially for use around the home . . . speeds up repair work, gives professional appearance. It drills wood or metal, grinds, wire brushes, buffs, polishes, even mixes paint.

PISTOL GRIP POWR-KRAFT DRILL. Capacity 1/4 inch in steel, 3/8 inch in hardwood. Hand-tight chuck, aluminum alloy housing, bronze bearings and steel gears. Trigger switch with lock keeps motor going after trigger is released. Use on 110-120-volts, 25-60 cycle AC or DC. No-load speed about 1600 RPM; full load speed about 1000 RPM. UL Approved.

INCLUDES: 7 carbon drill bits—1/16, 3/32, 1/8, 5/32, 3/16, 7/32, 1/4 in.; drill stand; metal box; side handle; backing pad; sheepswool bonnet; wire brush; grinding wheel; 12 sanding discs; buffing pad; paint mixer; adapter set; cord, plug.

84 WM 3251M—11 1/2 in. long. Mailable. Ship. wt. 8 lbs. . . . \$15.95

B 43-PIECE MEDIUM-DUTY KIT. Versatile kit—ideal for hobbyist, home craftsman, professional or for garage or shop use. Do wood and metal drilling, sawing, grinding, buffing, sanding, polishing and paint mixing.

PALM GRIP POWR-KRAFT DRILL. With 1/4-in. gear-type chuck. Capacity 1/4-inch in steel, 1/2-inch in hardwood; lightweight die-cast aluminum alloy housing. Powerful universal-type motor, bronze bearings, accurately meshed alloy steel gears. Automatic safety release. Trigger switch with lock that keeps motor running after trigger is released. Use on 110-120-volts, 25 to 60 cycle AC or DC. No-load speed 1600 RPM; full-load speed about 1000 RPM. UL Approved. Length about 8 1/2 inches. Rubber-covered cord, plug.

ACCESSORIES INCLUDE: Drum sander; 6 sanding drums; 5-in. molded rubber backing pad; 12 sanding discs; 7 hi-speed drill bits—1/16, 3/32, 1/8, 5/32, 3/16, 7/32 and 1/4 in.; 2 wood bits—3/8 and 1/2-in.; buffing pad; polishing bonnet; box of polishing compound; drill arbor; wire cup brush and 3-in. grinding wheel; horizontal drill stand; 4-in. wood cutting saw blade; paint mixer; hole cutter; countersink; side handle; metal box.

84 WM 2600M—Mailable. Ship. wt. 12 lbs. \$3.50 Down or Cash \$32.95

HANDY HINTS ON CARE OF YOUR DRILL

It is important that you operate your drill at the stated voltage. If used on a low-voltage line drill will lack power, will run at slower speed and will heat up quickly. If used on a high voltage line, drill will run at too high a speed, motor will overheat causing damage.

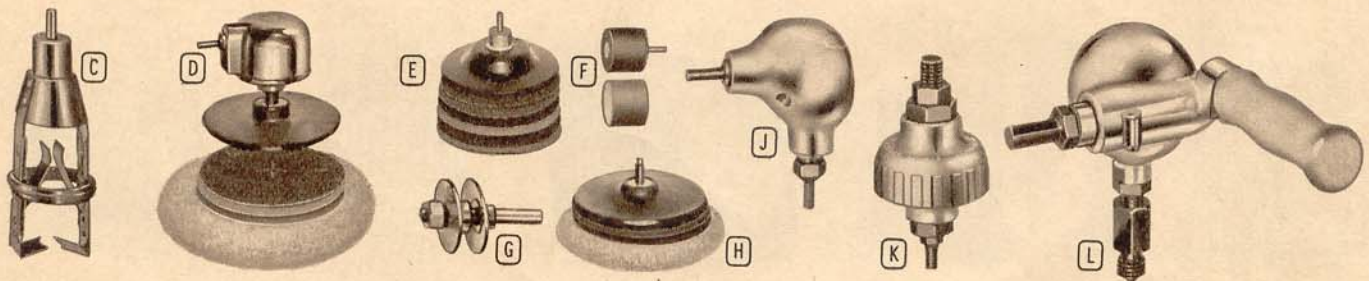
When drilling at considerable distance from power outlet, use not less than 16-ga. rubber insulated extension cord. See cords listed at right.

Overloading or using light or medium-duty electric drills for continuous use will put a strain on the motor, shortening its life.

25 AND 100-FT. EXTENSION CORDS 2.29 AND 7.65

UL APPROVED EXTENSION CORDS. (Not shown.) Use with drills and other power tools. Heavy rubber cord, plug, outlet. 16-gauge copper wire.

83 WM 1271L—25-Foot Length. Ship. wt. 2 lbs. \$2.29
83 WM 1275L—100-Foot Length. Ship. wt. 7 lbs. 7.65



HANDY ACCESSORIES FOR YOUR DRILL KIT

C "SPIN-A-BRUSH" CLAMP ATTACHMENT. Converts electric drills 1/4-in. capacity and over into speedy paint brush cleaner. Spins brush clean in 90 seconds. 1/4-in. shank. Fits in drill chuck. 84WM3493—Ship. wt. 2 lbs. . . \$1.95

D BULL BUFFER OUTFIT. For sanding and polishing. Fits electric drill or flex shaft 1/4 in. or larger. Grease-sealed alloy steel miter gears. 5-in. rubber disc, 3 sanding discs, sheepskin bonnet. 84 WMP 2639—Postpaid. Complete outfit. . . \$5.49
84 WM 3256—2 Sheepskin bonnets. Wt. 4 oz. . . 95c

E MALL 4-IN. DIAM. FLEXIBLE SANDING PAD. Fits 1/4-in. or larger chuck. 6 ass't 4 in. discs. 84 WMP 2617—Set with wrench. Postpaid. . . \$4.20
84 WM 2618X—10 Ass't Sanding Discs. Wt. 10 oz. 33c

F DRUM SANDING ATTACHMENT. Fits 1/4-in. or larger chuck. State size. Ship. wt. each, 6 oz. 84WM3225—1x1 in. . 39c; 1 1/2x1 1/2. . 45c; 2x1 1/2. . 55c
SANDING SLEEVES FOR (F). Fine, medium, coarse. 84 WM 3226—Wt. 2 oz. State grit, size. . . . Each 7c

G 1/4-IN. DRILL ARBOR. Fits 1/4, 3/8, 1/2-in. holes. 84 WM 3496—3 5/16 in. long. Wt. 6 oz. 39c

H POWR-KRAFT 5-IN. RUBBER PAD KIT. With 3 assorted discs, wool buffer. Shipping wt. 1 lb. 84 WM 3499—Fits 1/4-in. or larger chuck. . . . \$1.19

NEW ATTACHMENTS FOR 1/4 AND 1/2-IN. DRILLS

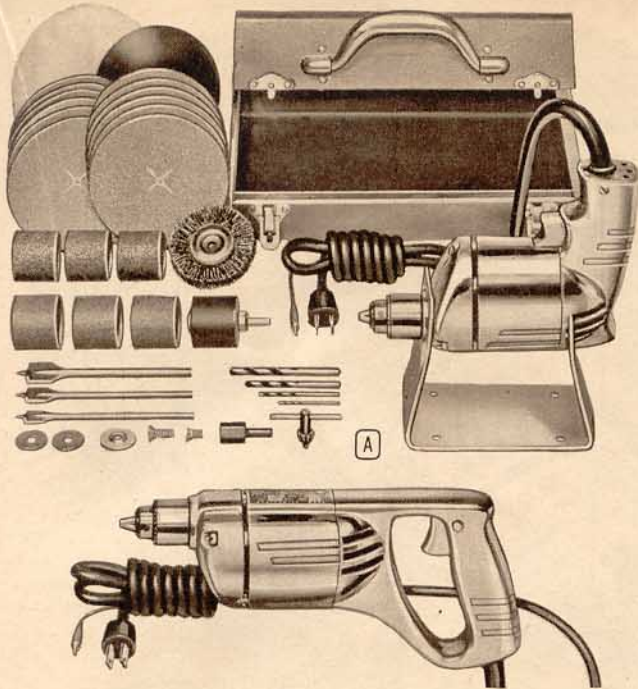
J RIGHT-ANGLE DRIVE. For 1/4-in. drills. 2-to-1 gear ratio, halves or doubles speed. Fits directly on spindle . . . screw coupled to drill. 84 WM 3291—Ship. wt. 12 oz. \$4.25

K 5-TO-1 SPEED REDUCER. For 1/4-in. drills. Hand clutch gives positive control. Grip speed reducer and working tool starts; release and tool stops immediately. For screw driving, drilling, etc. 84 WM 3293—Ship. wt. 1 lb. 8 oz. \$8.50

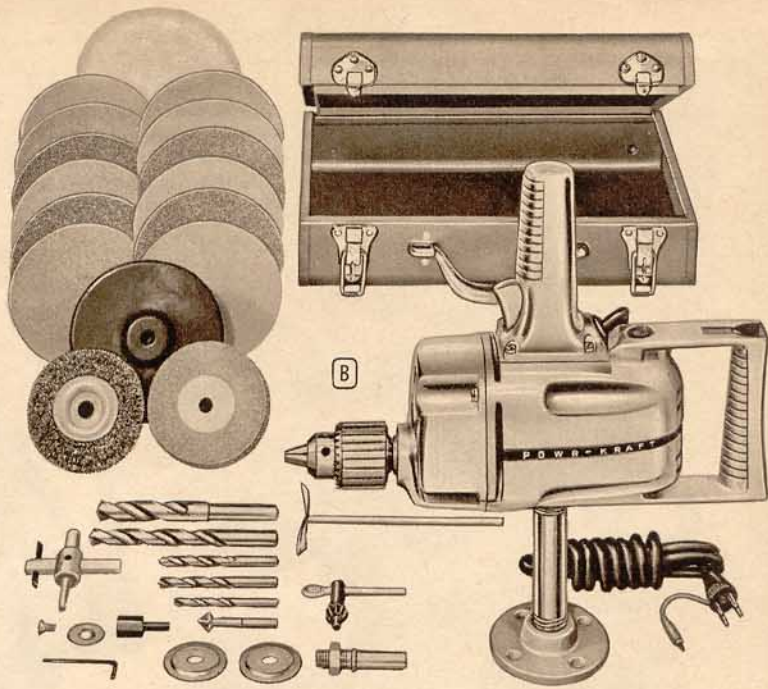
L HEAVY-DUTY RIGHT-ANGLE DRIVE. For 1/2-in. drills. 2-to-1 gear ratio . . . halves or doubles drill speed. For polishing or sanding. Fits directly on spindle. Helical cut Boston steel gears, heat treated. Stressproof steel spindles. 84 WM 3292—Ship. wt. 1 lb. 8 oz. \$16.50

26 WARDS CBA

84 WM 2640X—10 Ass't Sanding Discs. 8 oz. 65c



A



B

Hundreds of Uses in Home or Production Shop

HEAVY-DUTY POWR-KRAFT 1/4-IN. DRILL KIT 42.50

A 33-PIECE 1/4-IN. DRILL KIT. Choice of palm-grip drill (shown on stand) or spade grip drill. Drills are same except for handle. Production model kits capable of performing hundreds of jobs around the factory, home workshop, garage, etc. Does wood or metal drilling, sanding, boring, polishing, drum-sanding, wire brushing, etc.

HEAVY-DUTY, BALL BEARING 1/4-IN. DRILLS. For continuous production or workshop use. Meet government specifications WD-661, Navy 40T3, Mil-885. Grease-sealed ball and needle bearings; die-cast aluminum housings; heat-treated alloy steel gears. Three-jaw gear-type chucks with keys. Trigger switch with lock; automatic release switch. UL Approved. 110-120-volts, 25 to 60-cycle AC or DC. Rubber-covered cord, plug. 1/4-in. capacity in steel; 3/4-in. in hardwood. No-load speed 1800 RPM; full-load speed 1200 RPM.

ACCESSORIES INCLUDE: steel tool box; 4 high-speed drill bits (1/16, 3/16, 1/8, 1/4-in.); 3 power auger bits (3/8, 1/2, 3/4-in.); horizontal drill stand; 5-in. rubber backing pad; lambswool bonnet; 12 sanding discs; adapter set; drum sander; 6 sanding sleeves; wire wheel. *Available.* Ship. wts. each, 8 lbs. 8 oz.
84 WM 3238M—Kit with Palm-Grip Drill. \$4.50 Down. Cash \$42.50
84 WM 3239M—Kit with Spade-Grip Drill. \$4.50 Down. Cash 42.50

PRODUCTION MODEL POWR-KRAFT 1/2-IN. DRILL KIT 49.95

B 28-PIECE POWR-KRAFT 1/2-IN. DRILL KIT. For all types of continuous production work in shops, garages, etc. Powerful drill, perfectly balanced for easier handling. Especially adapted for heavy construction, repair and maintenance work on wood and metal. Drills, buffs, sands, etc.

HEAVY-DUTY 1/2-INCH DRILL. Aluminum alloy housing. 110-120-volts, 25-60 cycles, AC or DC. Plenty of power for toughest jobs. Self-lubricating bronze bearings and ball thrust bearing on chuck spindle. Cutler-Hammer lock-type switch. 3/8-in. capacity in steel; 1-in. in hardwood. No-load speed 450 RPM. Full load speed 300 RPM. Helical cut gears of hardened alloy steel, accurately meshed. Two handles: Upper one removable for close corner drilling; lower handle formed to fit the hand. Handle in rear for straight down drilling or carrying. Chuck is high-quality 3-jaw geared type threaded to spindle. Forced draft cools motor. UL Approved. Size 13 1/2 x 14 3/4 x 4 in. Cord and plug.

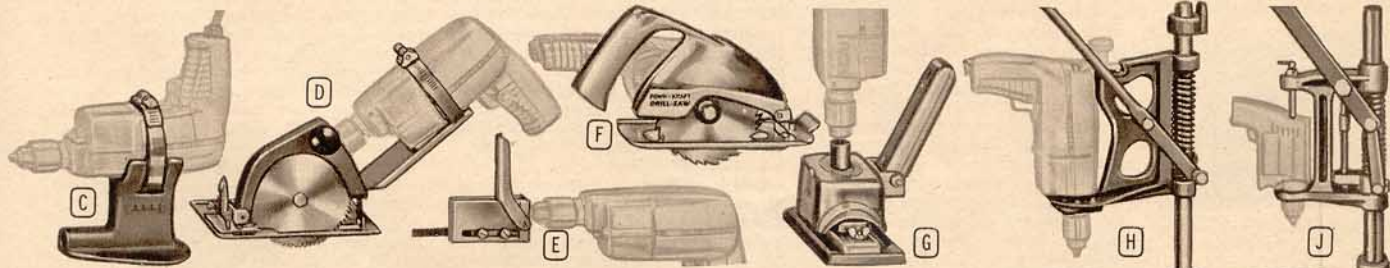
ACCESSORIES INCLUDE: spindle adapter; 4-in. wire wheel; 4-in. grinding wheel; drill stand; 5 carbon drill bits—1/4, 5/16, 3/8, 1/2, 5/8 in.; countersink bit; paint mixer; hole cutter; wrench; 5 1/2-in. rubber pad; 12 sanding discs; lambswool bonnet; arbor unit with flanges and nut; metal tool case.
84 WM 3235M—*Available.* Ship. wt. 23 lbs. \$5 Down. or Cash \$49.95

WARDS MONTHLY PAYMENT PLAN

10% (one-tenth) Down is all that is required on any tool order of \$20 or more. You may buy the power tools of your choice and pay for them on Monthly Terms. For complete Monthly Payment information see Page 43.

HANDY HINT... CARE OF DRILL CORD

Inspect cord frequently. Worn or frayed cords should be replaced immediately. Keep cord clean of oil, grease, etc. Never pull cord to extract plug or use cord as a carrying handle. Also keep cord off of floor.



DRILL STAND AND SAW ATTACHMENTS

C HORIZONTAL DRILL STAND. Fits all 1/4-in. drills. Cast aluminum base. Adjustable band. 84 WM 3228—Size 6 1/2 x 5 x 3 1/2 in. Wt. 1 lb. . . . \$2.25

D CIRCULAR SAW ATTACHMENT. Bevel adjusts to 45°. Cut adjusts to 1 3/16 in. deep. Fits 1/4-in. chucks. Sealed gears. Aluminum 1-piece gear box, blade guard. With crosscut blade. 84 WM 3290—Ship. wt. 2 lbs. 14 oz. \$9.95
84 WM 3255—Crosscut, rip blade. Wt. 8 oz. . . . 1.59

E HACK SAW ATTACHMENT. Fits 1/4-in. chuck. Cuts up to 3/4-in. in wood; use only on light metal. With saber type blade for wood. 84 WM 3232—Ship. wt. 1 lb. \$4.69
84 WM 3233—Wood Blade. 3 x 3 1/2 in. Wt. 3 oz. . . 1.0c
84 WM 3234—Metal Blade. 3 x 1/2 in. Wt. 3 oz. . . 1.0c

SAW AND SANDER ATTACHMENTS

F 4-IN. CIRCULAR SAW ATTACHMENT. Fits 1/4-in. chuck. Cut adjusts to 1 in. Cast aluminum housing. With combination rip-crosscut blade. 84 WM 3296—Ship. wt. 2 lbs. . . . \$5.95
Extra rip-crosscut blade for above. 84 WM 3489—Ship. wt. 8 oz. . . . \$1.59

G FIELD MASTER SANDER. Use with electric drill or flex shaft with 1/4-in. or larger chuck. 6 assorted aluminum oxide sheets; open coat abrasive; sheepskin type polishing cover. For sanding, polishing. 84 WM 3274—Wt. 2 lbs. 8 oz. . . . \$9.95
84 WM 3273X—12 assorted grit sheets for (G). Ship. wt. 4 oz. 25c

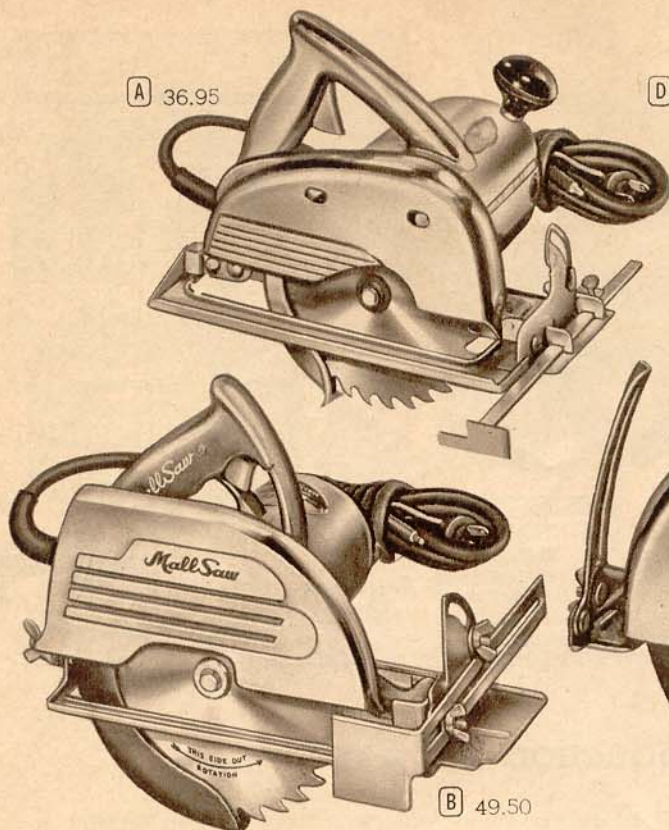
DRILL STANDS

H POWR-KRAFT VERTICAL DRILL STAND. Converts Powr-Kraft drills (84 WM 2603) and (84 WM 2623) on Page 24 into drill press. Drill held rigidly in position by clamp—no tools required. Drills to center of 8-in. circle. Spindle travels 2 1/4-in. 6-in. diam. cast-iron table. Tubular steel column with cast-iron base. 5-to-1 handle leverage. Holes for fastening stand to bench or wall. 84 WM 3240—Ship. wt. 8 lbs. 8 oz. \$9.95

J MALL VERTICAL DRILL STAND. Converts Mall 1/2-in. drill (84 WMP 2649M) on Page 25 to drill press. Drills can be mounted quickly in bracket—held in correct alignment—no tools needed. Drills to center of 10-in. circle. Spindle travels 4 in. Cast-iron table 9 1/4 in. diam. Lever handle. *Mailed Postpaid* promptly from Factory in Chicago, Ill. 84 WMP 2616K—\$3.50 Dn. . . . Cash \$35.00

A 36.95

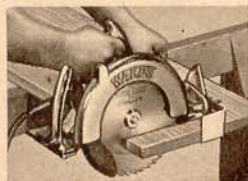
D 4.79



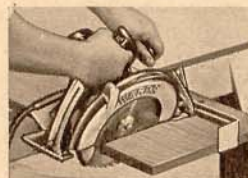
B 49.50

C 69.95

Powr-Kraft and Mall Portable Electric Saws . . .



(1) Crosscutting



(2) Bevel Cutting



(3) Concrete Cutting with Special Blade

EXTENSION CORD SETS

(Not shown.) Will extend operating radius of your electric saw. 16-ga. copper wire. Rubber-covered cord and plug. UL Approved.

83 WM 1271LX—25 ft. long. Ship. wt. 2 lbs. \$2.29
83 WM 1275LX—100 ft. long. Ship. wt. 7 lbs. \$7.65

Always use a sharp blade to protect your saw and maintain efficiency. Buy an extra blade and switch blades for sharpening at first signs of dulling.

28 WARDS CBASKDF

SIX WAYS TO PUT YOUR PORTABLE ELECTRIC SAW TO WORK. (See pictures (1) to (6).) (1) Rip or cross cutting of boards, plywood, plaster board, etc. (2) Bevel cutting up to 45° with bevel adjustment equipped saws. (3) Cutting of concrete, brick, Masonite Presdwood, etc., with blade (L) on opposite page. (4) Overhead cutting—a most useful job almost impossible to do with hand saw. (5) Height adjustment attachment on some models permits adjusting depth of cut from 0 to 3 1/16 in., thus making possible cutting of grooves to uniform depth. (6) Cutting and notching sheathing, ply-

wood panels, flooring, etc. Also for accurate straight and compound miter cuts. Use it when remodeling for easy, fast cutting of rafters, siding and flooring—cuts ten times faster than by hand, saves time and effort.

IMPORTANT: Be sure to choose the correct type saw for your needs. Powr-Kraft 6 1/4-in. saw (A) and Mall 7-in. saw (B) are for intermittent home workshop or light duty carpentry use. Powr-Kraft 8 1/2-in. (C) is for medium duty carpentry or workshop use. Mall production models (E), (G) and (H) are for heavy duty commercial or industrial use. All are *Mailable*.

POWR-KRAFT 6 1/4-IN. 36.95

MALL 7-INCH 49.50

POWR-KRAFT 8 1/2-INCH 69.95

A LIGHT DUTY MODEL. Ideal for intermittent (non-continuous) work in home workshops, repair shops, etc. Can be used for straight, rafter and bevel cuts, house framing, etc. Powerful universal-type motor develops 3/4 HP on 110- to 120-volt AC or DC. UL Approved.

Helical-cut gears in grease-sealed chamber. Self-oiling bronze sleeve bearings. Propeller type cooling system. Loop handle with trigger switch. Die-cast aluminum alloy housing—mirror finish. Telescoping blade guard. With 10-ft. cord, plug; 6 1/4-in. combination crosscut-rip blade.

Bevel adjustment calibrated at 15, 30, 45°. Depth adjusts from 0 to 2 1/8 in. in vertical position. Cuts to 1 3/4 in. at 45°. See specification table below. Ship. wt. 12 lbs. Only \$4 Down on Terms. 84 WM3202M— Cash \$36.95.

STEEL CASE FOR (A). Size 12 by 10 by 10 in. *Mailable*. 84 WM 2427M—Ship. wt. 7 lbs. . \$4.25

HINTS ON USING YOUR SAW

Let your saw reach maximum speed before starting the cut. Don't force the saw; use just enough pressure to let blade run freely in the cut. Always use a sharp blade to prolong the life of your saw.

Never remove the saw guard. Always unplug saw before making adjustments or changing blades.

Always have ample electricity—don't use overloaded circuits. Separate light and power lines are best.

B UTILITY MODEL. Nationally known quality. Specially designed for use in home workshops and light-duty carpentry. For intermittent (non-continuous) work. Cuts straight, rafter and bevel cuts, house framing, etc. Powerful universal-type motor rated 3/4 HP on 110- to 120-volt AC or DC current. Approved by Underwriters' Laboratories.

Helical cut gears in grease-sealed chamber. Precision ball and oilite sleeve bearing construction. Has loop handle with handy trigger switch. Die-cast aluminum alloy housing. Telescoping blade guard. Includes heavy-duty 10-foot cord and plug; 7-inch combination crosscut-rip blade.

Bevel adjustment calibrated at 15, 30, 45°. Depth adjusts from 1/2 to 2 3/8 inches in vertical position. Cuts to 2 inches at 45°. Full-load speed is 3400 RPM. See complete specifications in table below. *Mailed Postpaid*. 84 WMP 2438M—\$5 Dn. . . or Cash \$49.50

METAL CASE FOR (B). Size 12 by 10 by 10 in. *Mailable*. 84 WM 2439M—Ship. wt. 11 lbs. . . \$4.39

C MEDIUM DUTY MODEL. Large capacity for carpentry or home workshop use. Can be used for straight, rafter and bevel cuts, house framing, etc. Turns out your work 10 times faster than hand sawing. High-powered universal-type motor develops 1 HP on 110- to 120-volt AC or DC. Approved by Underwriters' Laboratories.

Enclosed helical cut gears in grease-sealed chamber. Grease-sealed ball and needle bearings for longer life. Has propeller-type cooling system with blower fan. Loop handle with trigger switch. Die-cast aluminum alloy housing. Automatic telescoping blade guard. With 10-ft. rubber-covered cord and plug; wrench; 8 1/2-inch combination crosscut-rip blade.

Bevel adjustment calibrated at 15, 30, 45°. Depth adjusts from 0 to 3 1/16 in.; up to 2 5/16 in. at 45°. Full-load speed is 2700 RPM. See complete specifications below. Ship. wt. 23 lbs. \$7 Down on Terms.

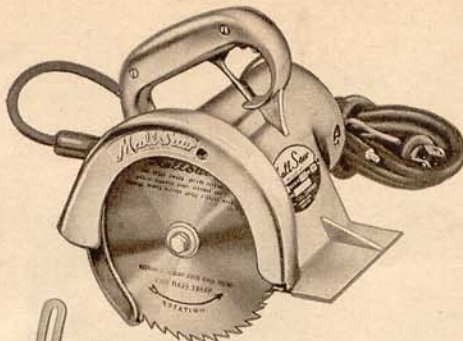
84WM2430M—Left-side blade . . . Cash \$69.95
84WM2431M—Right-side blade. Cash 69.95

D STEEL CASE FOR (C). Size 15 1/2 by 11 1/2 by 11 in. *Mailable*. 84 WM 2434M—Ship. wt. 15 lbs. \$4.79

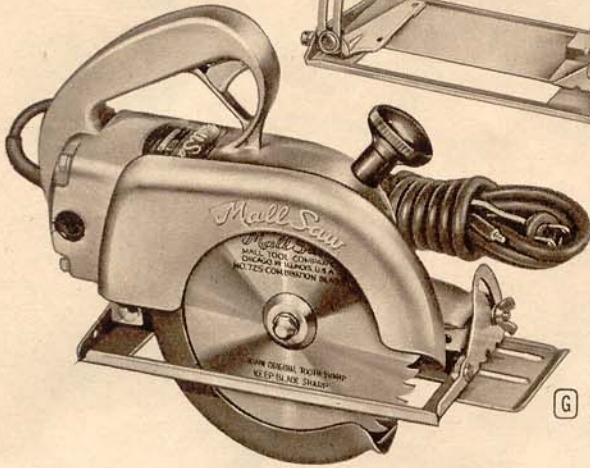
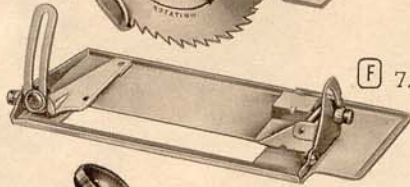
ELECTRIC SAW SPECIFICATIONS

	Saw A	Saw B	Saw C	Saw E	Saw G	Saw H
Cut (Vert.), in.	2 1/8	2 3/8	3 1/16	2	2 1/4	2 7/8
Cut (At 45°), in.	1 3/4	2	2 5/16	2	2 5/16
Blade diam., in.	6 1/4	7	8 1/2	6	7 1/4	8 1/2
Arbor hole	1/2 in. sq.	1/2 in. sq.	13/16 in. sq.	1/2 in. sq.	13/16 in. sq.	13/16 in. sq.
No load RPM	4700	5000	4500	5000	4800	4200
Full load RPM	3200	3400	2700	3400	3400	2500
Rated HP	3/4	3/4	1	3/4	1	1 1/2
Size (In.)	11 1/2 x 9 x 10	12 1/2 x 8 3/4 x 9 5/8	13 1/2 x 10 x 10 1/2	8 1/2 x 8 x 8 5/8	14 x 6 1/2 x 11	15 1/4 x 6 1/2 x 12
Actual Wt.	11 lbs.	12 lbs.	17 lbs.	9 lbs.	15 1/2 lbs.	17 1/2 lbs.

E 54.95



F 7.00



G 115.00



H 135.00

Do Your Work 10 Times Faster Than by Hand

NATIONALLY KNOWN MALL ELECTRIC SAWS. Designed to professional specifications of carpenters and contractors. For house framing, form work, etc. (see pictures at sides of pages). Powerful universal-type motor, statically and dynamically balanced, operates on 110-120 volts, AC or DC. Helical cut gears sealed in grease chamber—assures constant lubrication. Exhaust air keeps cutting line clear of sawdust. Well-balanced, comfortable loop handle and trigger switch for right or left-hand control. Die-cast aluminum alloy housing gives you greatest strength with the lowest possible weight.

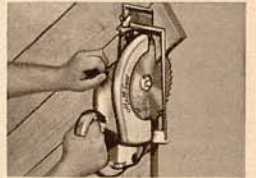
With automatic telescoping blade guard. Complete with rubber-covered 15-foot cord and plug, wrench and combination crosscut and rip blade. All saws except (E) come with adjustable swivel base for bevel cut up to 45° depth adjustment, saw lubricant and metal carrying case. *Mailed Postpaid.* 7 1/4 and 8 1/2-inch saws shipped promptly from Factory in Chicago. 6-in. saw shipped from Stock. See complete specifications in table on opposite page. Always use a sharp blade to protect your saw and maintain efficiency. Order extra blades from listings below.



(4) Overhead Cutting



(5) Cutting with Height Adj.



(6) Cutting Sheathing

6-INCH MALL SAW 54.95

7 1/4-INCH MALL SAW 115.00

8 1/2-INCH MALL SAW 135.00

(E) Has all features above except bevel adjustment. Cuts to 2 in. vertically. Rated at 3/4 HP. Actual weight 9 lbs. See table of specifications on opposite page; order extra blades below. *Postpaid.* \$5.50 Dn. 84 WMP 2447M—.....Cash \$54.95

(F) BEVEL SHOE ATTACHMENT FOR (E). Cuts to 1 1/16 in. at 45°. 84 WMP 2446—*Postpaid.*.....\$7.00

(G) Has all features listed above. Cutting capacity: Cuts up to 2 1/4 inches vertically; up to 2 inches with bevel adjustment set at 45°. Motor rated at 1 HP. Actual weight 15 1/4 lbs. Metal carrying case and lubricant included. See table of specifications on opposite page; order extra saw blades from listings below. *Mailed Postpaid.* \$11.50 Down on Terms. 84 WMP 2440K—.....Cash \$115.00

(H) Has all of the features listed above. Large cutting capacity: Cuts up to 2 7/8 inches vertically and up to 2 5/16 inches with bevel adjustment set at 45°. Motor is rated at 1 1/2 HP. Actual weight 17 1/2 lbs. Metal carrying case and lubricant included. See table of specifications on opposite page; order extra saw blades from listings below. *Mailed Postpaid.* Only \$13.50 Down on Terms. 84 WMP 2441K—.....Cash \$135.00

PORTABLE ELECTRIC SAW BLADES FOR POWR-KRAFT, MALL AND OTHER NATIONALLY KNOWN SAWS

Cat. No.	Diam.	Hole, In.	Fits Saws	Ship. wt.	Each
(J) "PTI" Blade 84 WM 6962L	6 in. 7 1/4 in. 8 in.	1/2 square Universal Universal	(A), (B), (E) See * See *	1 lb. 1 lb. 1 lb.	\$2.89 3.45 3.75
(K) Carbide Tip 84 WM 6963L	6 1/8 in. 8 in.	1/2 square 1 3/16 square	(A), (B), (E) (C), (H)	1 lb. 1 lb.	9.95 11.65
(L) Carborundum 84 WMP 5244	6 in. 7 in. 7 in. 8 in.	1/2 square 1/2 square 1 3/16 square 1 3/16 square	(A), (E) (B) (G) (C), (H)	1 lb. Postpd. Postpd. Postpd.	1.83 2.40 2.40 3.06
(M) Combination 84 WM 6968L	6 in. 6 1/4 in. 7 in. 7 1/4 in. 8 1/2 in.	1/2 square 1/2 square 1/2 square 1 3/16 square 1 3/16 square	(A), (E) (A) (B) (G) (C), (H)	1 lb. 1 lb. 1 lb. 8 oz. 1 lb. 8 oz. 2 lbs.	1.85 1.89 1.98 1.98 2.59
Combination 84 WM 6971K	6 1/8 in. 7 3/8 in. 8 1/4 in.	1 1/4 round 1 1/8 round 1 3/8 round	Black and Decker	1 lb. 1 lb. 8 oz. 2 lbs.	1.89 2.19 2.65
Combination 84 WM 6972K	6 1/4 in. 7 1/2 in. 8 in.	5/8 round 5/8 round 5/8 round	Porter-Cable	1 lb. 1 lb. 1 lb.	1.89 2.19 2.29
Combination 84 WM 6973K	5 7/8 in. 7 1/4 in. 8 1/4 in.	Diamond Diamond Diamond	Skilsaw	1 lb. 1 lb. 1 lb.	1.85 1.98 2.65
(N) Nail Cutting 84 WM 6970L	6 in. 7 1/4 in. 7 in. 8 1/2 in.	1/2 square 1/2 square 1/2 square 1 3/16 square	(A), (E) (A) (B) (C), (H)	8 oz. 8 oz. 12 oz. 1 lb.	2.09 2.09 2.29 3.19

(J) ORIGINAL "PTI" COMBINATION SAW BLADES. Teeth project approximately .020 inches above cutting edge for controlled cut. Safer from kickbacks—teeth won't grab wood and throw it against operator. 6-in. size has 6 teeth; 7 1/4 and 8-in. sizes have 8 teeth. *IMPORTANT: 7 1/4 and 8-in. "PTI" blades have universal arbor holes (as shown), which fit Powr-Kraft, Thor, Skilsaw, Mall (except 7-in.), Cummins and Wappat portable saws. Order at left. *State diameter wanted.*

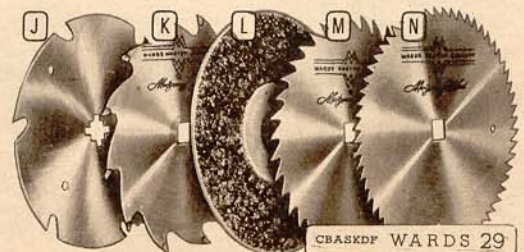
(K) CARBIDE TIPPED 12-TOOTH SAW BLADE. Master (Best) Quality. Lasts up to 25 times longer than ordinary blades between sharpenings. Cuts transite, Formica, plastics, roofing, siding, etc. Carbide tips silver brazed to high grade alloy steel blade. Order at left. *State diameter.*

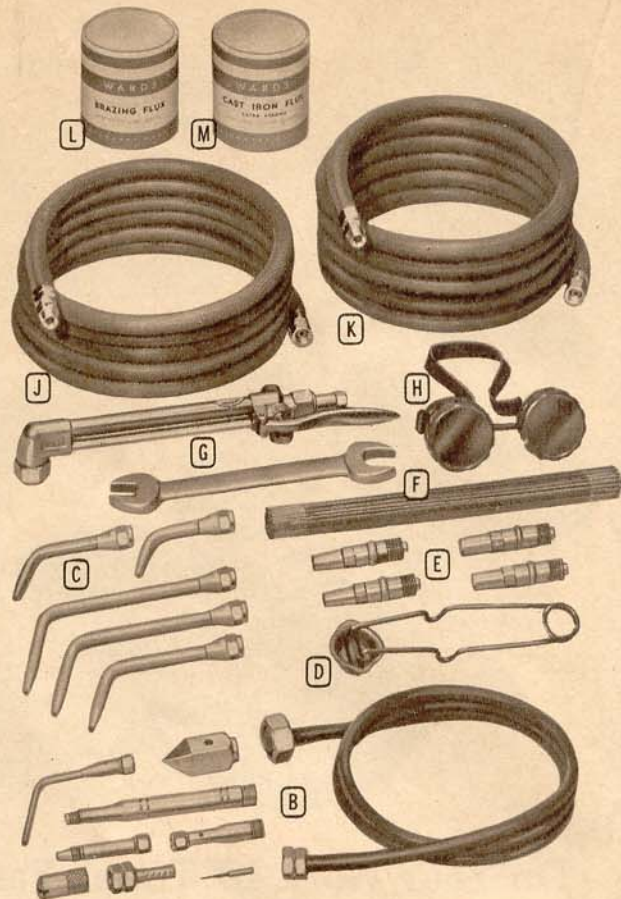
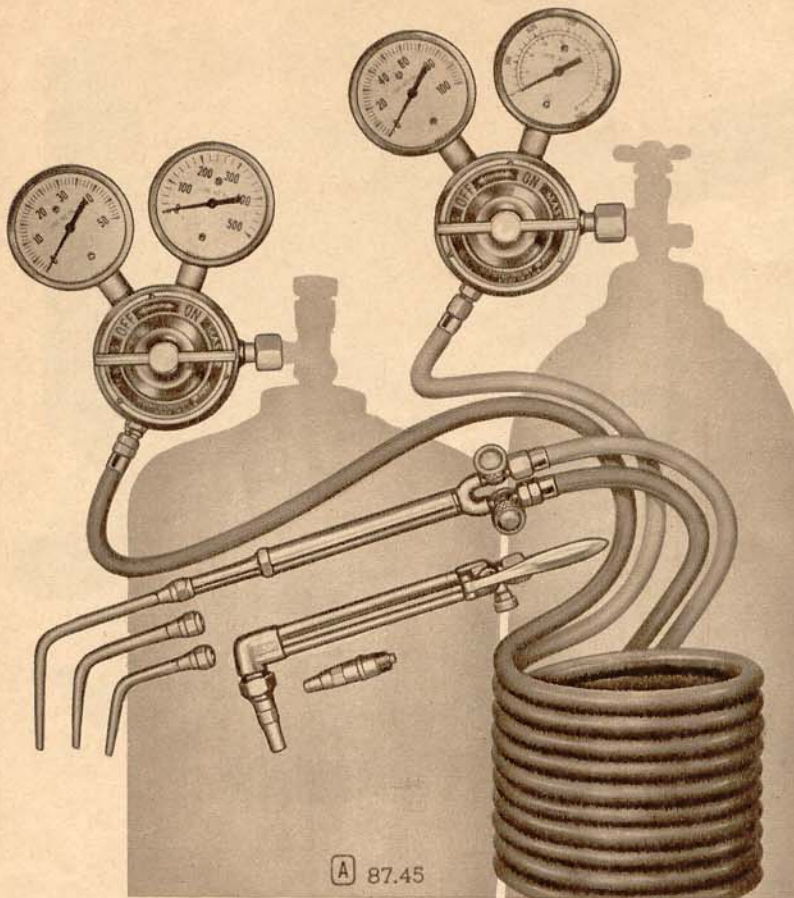
(L) CARBORUNDUM "MX" CUT-OFF WHEELS. Silicon carbide abrasive for fast cutting of non-metallics such as concrete, brick, tile, etc. Wheels do not shatter. 3/32 in. thick. *State diameter wanted.*

(M) COMBINATION SAW BLADES. Master Quality. Combination crosscut-rip. Flat ground. Refined heat-treated saw steel. Hand filed and set. *State diameter wanted.*

COMBINATION BLADES (not shown) for Black and Decker, Porter-Cable and Skilsaw saws also listed at left. Shipped promptly from Factory near Buffalo, N. Y. Pay postage from there.

(N) NAIL CUTTING SAW BLADES. Master Quality. For cutting used lumber, etc., where small nails may be found. *State diameter wanted.*





UL Approved Gas Welding and Cutting Outfits

COMBINATION WELDING AND CUTTING OUTFIT 87.45

A WARDS MASTER QUALITY. Every part individually tested. Torch, Cutting Attachment and Regulators are UL Approved. Outfit includes:

WELDING TORCH. Balanced equal pressure type. Strong drawn brass with ribbed handle. Non-flash mixer handles all size tips—no extra mixing chamber needed. Precision fit needle valves allow for fine adjustments. Heavy knurled grips—torch can be turned off without disturbing regulator settings. Swivel type tips permit right or left-hand operation. Torch size varies 14 to 19 in.

THREE WELDING TIPS. Sizes T-3, T-5 and T-7. Weld metal up to 2 in. Solid drawn copper. Swivel type, have four times flame range of ordinary fixed tips—will not backfire.

CUTTING ATTACHMENT. Cuts steel to 10 in. Solid drawn brass. Convenient lever control of excess oxygen flow for fast cutting. 10½ in. long.

TWO CUTTING TIPS. Made of solid drawn copper. Superior to ordinary leaded copper tips. Sizes C-1 and C-3—cut metal up to 6 inches.

OXYGEN AND ACETYLENE REGULATORS. Wards exclusive patented on-off features insure correct usage, longer life. Large capacity diaphragm, 6½ sq. in. for sensitive control, even flame. Forged polished brass. Double cone inlet screen keeps out dust and dirt. 2¾-in. diam. gauges are clearly marked. Oxygen regulator has 100 and 3000-lb. gauges—shows pressure and cubic ft. content of tank. Acetylene regulator has 50 and 500-lb. gauges; also adaptor for standard acetylene welding cylinders.

OTHER ACCESSORIES. Welders' goggles; torch lighter; wrench; two instruction booklets; and two 25-ft. lengths of welding hose, ¼-in. inside, ½-in. outside diam. Ship. wt. 25 lbs.

84 WM 5815M—Mailable. \$9 Down Cash \$87.45

WELDING OUTFIT ONLY 65.45

WARDS MASTER QUALITY. (Not shown.) Includes following items described at left: Welding Torch; 5 welding nozzle tips—sizes T-1, T-3, T-5, T-7, T-9—weld metal up to 2 in.; Oxygen Regulator and Acetylene Regulator with adaptor; goggles; torch lighter and wrench; 10 coppered steel, 8 cast-iron welding rods; 3 Tobin bronze brazing rods, about 18 in. long, ¼ and ½-in. diam.; Oxy-Acetylene manual and installation booklet; ¾ lb. cast-iron and ¾ lbs. brazing flux; two 1½-ft. lengths of welding hose, ¼-in. inside, ½-in. outside diam. Ship. wt. 27 lbs.

84 WM 5810M—Mailable. \$7 Down, Cash \$65.45

Arrange for Gas Cylinders locally before buying Oxy-Acetylene Outfits—cylinders not included.

PRIORITY NOTICE. We are required by law to give preference to priority rated orders on gas welders on this page. See Page 43.

ACCESSORIES AND EQUIPMENT FOR OXY-ACETYLENE WELDING OUTFITS

B BRAZING OUTFIT. For soldering and brazing. Uses acetylene only, no oxygen. Fits Acetylene Regulator, Prest-O-Lite, Acetylene tanks. Soldering copper, paint burning tip, tank and hose connections. 6-in. torch handle. 5 ft. ¾-in. diam. rubber hose, tip cleaner.
84 WM 5802—Ship. wt. 2 lbs. 2 oz. \$8.25

C WELDING NOZZLE TIPS. Fit Wards welding torches only. Solid drawn copper. Swivel type, weld in any direction. 5 sizes: T-1, 3½ in. long; T-3, 4 in.; T-5, 5½ in.; T-7, 7 in.; T-9, 8½ in. State size wanted.
84 WM 5811—Ship. wt. 10 oz. Each \$1.75

D TORCH LIGHTER. As in outfit (A) above. Spring tension. 2 extra flints included.
84 WM 5809—Ship. wt. 3 oz. 53c

E CUTTING TIPS. Fit Wards cutting attachment and torches only. Solid drawn copper. Sizes: C-1, cuts metal to 1 in.; C-2, to 2½ in.; C-3, to 6 in.; C-4, to 10 in. State size wanted.

84 WM 5816—Weight 3 oz. Each \$2.85

F OXY-ACETYLENE MILD STEEL WELDING RODS. Copper coated low carbon steel.
84 WM 5856H—State diameter wanted.

Diam.	Approx. lgth.	Rods per 5 lb.	Wt.	Price
1/16 in.	36 in.	About 164	5½ lb.	\$1.29
1/8 in.	36 in.	About 40	5½ lb.	1.05
3/16 in.	36 in.	About 18	5½ lb.	98c
¼ in.	36 in.	About 10	5½ lb.	98c

BRONZE BRAZING RODS. Melt at 1600° F.
84 WM 5857H—State diameter wanted.

Diam.	Approx. lgth.	Rods in 1 lb.	Wt.	Price
1/8 in.	36 in.	About 6	1½ lb.	95c
3/16 in.	36 in.	About 3	1½ lb.	95c

OXY-ACETYLENE CAST-IRON WELDING RODS. Produces machinable welds.
84 WM 5855H—State diameter wanted.

Diam.	Approx. lgth.	Rods in 5 lb.	Wt.	Price
3/16 in.	24 in.	About 27	5½ lb.	\$1.59
¼ in.	24 in.	About 12	5½ lb.	1.39

MACOLY BRAZING RODS. Melt at 1180° F. 26 rods. ¼-in. diam. 14 inches long.
84 WM 5865—Ship. wt. 1 lb. 4 oz. \$3.15

G CUTTING ATTACHMENT. Fits Wards welding torches only. Solid drawn brass. Cuts steel up to 10 in. UL Approved. Length overall 10½ in. Wrench included.
84 WM 5820—Ship. wt. 2 lbs. 8 oz. \$14.95

H WELDING AND CUTTING GOGGLES. Meet Navy Specifications. No. 5 shade green lens. Ventilated eye cups.
84 WM 5835—Cover lens. Ship. wt. 8 oz. \$1.98

J WELDING HOSE. Rubber-covered rayon thread. ¼-in. inside, ½-in. outside diam. 12½ ft. long.
(J) 84 WM 5819—Red Acetylene Hose. Wt. 2½ lbs. \$3.98
(K) 84 WM 5818—Green Oxygen Hose. Wt. 2½ lbs. 3.98

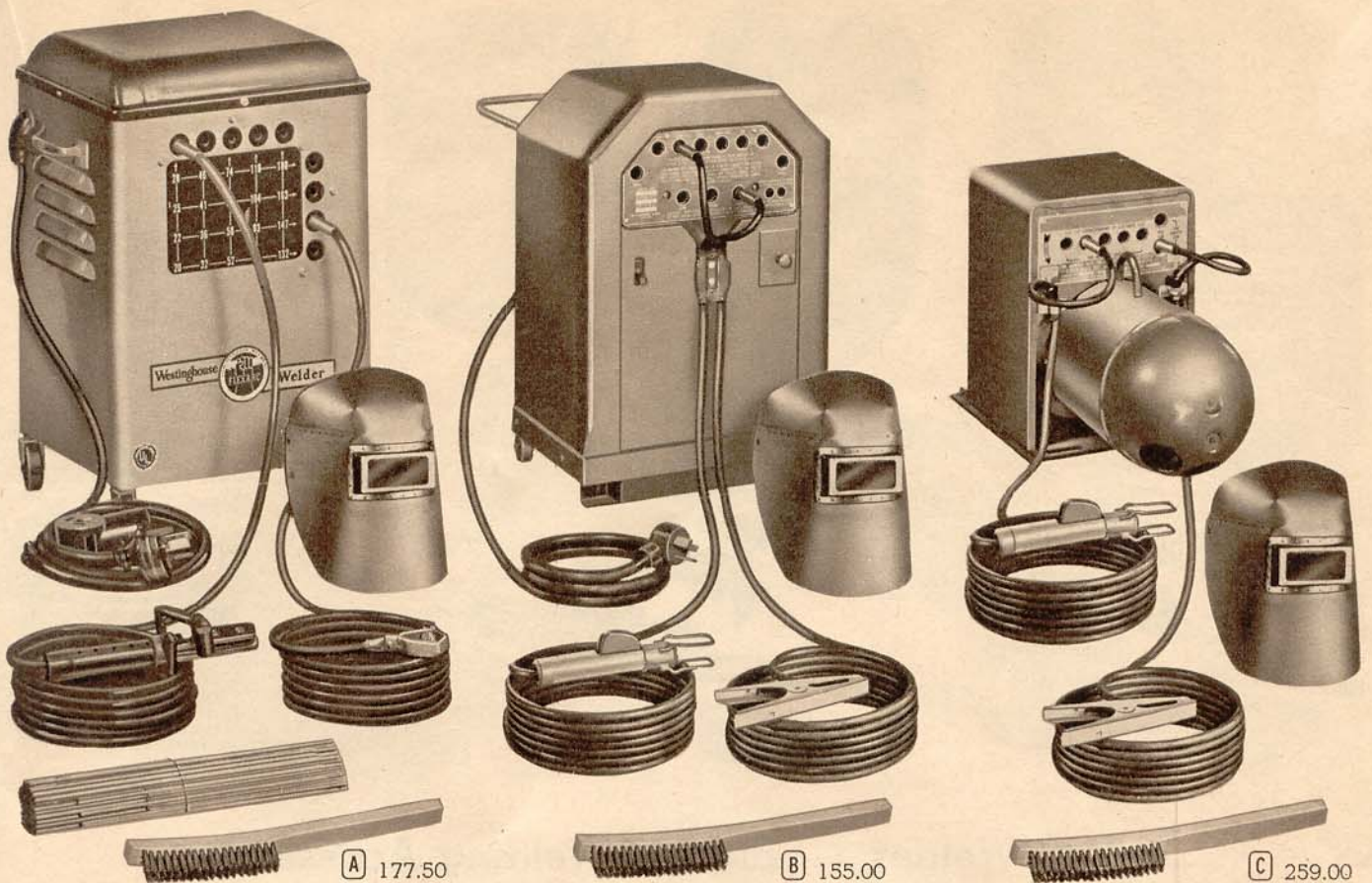
L FLUX. Cast-iron welding and brazing flux.
(L) 84 WM 5837—Brazing Flux. Wt. 14 oz. 55c
(M) 84 WM 5836—Welding Flux. Wt. 14 oz. 53c

WELDING TORCH. Shown and described in Set (A) above.
84 WM 5812—Welding Tips not incl. Wt. 2¼ lbs. . . . \$14.50

OXYGEN REGULATOR. Shown and described in Set (A).
84 WM 5813—Ship. wt. 6 lbs. 8 oz. \$16.95

ACETYLENE REGULATOR. Shown and described in (A).
84 WM 5814—Ship. wt. 6 lbs. 4 oz. \$16.45

30 WARDS 2CBA



Powr-Kraft and Westinghouse Electric Welders

FACTS ABOUT ARC WELDERS SOLD BY WARDS...COMPARE ANYWHERE FOR PROOF OF THEIR VALUE

The name plate on approved welders must contain duty cycle rating based on a National Standard Test. Be sure rating claimed is the same as rating given on name plate of welder. Wards advertised rating is in every case the same as that shown on the name plate of welder purchased.

Duty Cycle is the ratio of arcing time to total time welder is in use. For a 50% duty cycle, for example, actual welding time would be 5 minutes out of every 10 minutes. Time in

between arcing periods is for changing rods, etc. Your work should determine duty cycle needed.

All welders on this page have Class "B" insulation—allows temperature rise that must not exceed 50° C on Time Rating Test. Contain no flammable material. Transformers are oversize induction type, with built-in reactance. Maintain stable arc, increase voltage at low heats. Copper and iron in Wards transformers make up 80% of their weight.

WESTINGHOUSE WELDERS 177.50 ¹⁸⁰amp.

(A) 180 AMP. FARM WELDER. UL Approved. Meets REA, NEMA specifications. 230 volts, single phase, 60-cycle AC. Has 20 heats, 20 to 180 amps. 20% duty cycle. Built-in primary capacitor limits maximum line draw to 34 amps. Power factor corrected to 73%. Open circuit volts 65; arc volts 25. No-load primary current 9 amps. Maximum power used 5.3 kilowatts. Uses electrodes to 3/16 in. De-ion circuit breaker. Off-on switch. Class "B" insulation.

16-ga. steel case 25x17x12 1/2 in., on steel wheels. With 8-ft., 3 conductor primary cable, 3-prong plug and receptacle. Includes: two 12-ft. welding cables; electrode holder; helmet; wire brush; 1 1/4 lbs. electrodes; manual. Ship. wt. 191 lbs.* 84 WM 5936F—\$18 Down.... Cash \$177.50

300-AMP. WELDER (not shown). Meets NEMA specifications. 230 volt, single phase, 60 cycle AC welder. 30 heats from 20 to 300 amps. 20% duty cycle. Maximum power used 9 kw. Handles electrodes up to 1/4 in. De-ion circuit breaker. Class "B" insulation.

16-ga. steel cabinet 34 3/8x27 7/8x19 1/8 in. on steel wheels. With 15-ft., 3-conductor primary cable with 3-prong plug and receptacle. Includes: 16-ft. ground cable; 16-ft. electrode cable; 1 1/4 lbs. electrodes; electrode holder; helmet; brush; manual. Ship. wt. 360 lbs.*

84 WM 5937F—\$24.50 Down. Cash \$245.00

*Shipped in 4 weeks from Buffalo. Pay Freight from nearest Factory: Buffalo, Chicago, Newark or Philadelphia.

POWR-KRAFT AC WELDER 155.00

(B) 180 AMP. AC WELDER. Will weld steel, cast-iron, hard surfaces of farm implements. Has many uses for farm, repair shop, garage. Built to REA, NEMA specifications. For 230 volts, single phase, 60-cycle AC. Use with electrodes from 1/16 to 3/32 in.

Strong industrial construction throughout. Frame and housing are welded steel. Size of case overall 22 1/2x16 3/4x11 in. Heavy copper windings with spun glass insulation. Case has compartment in rear for holding extra electrodes. Drip-proof construction. Equipped with correction for low line voltage. Class "B" insulation.

Input cannot exceed 37 amps. while welding at maximum 180 amps. Maximum open circuit voltage 58 volts; arc volts 25. Duty cycle rating 20%. Power factor at rated output 62%.

INCLUDES: 25-ft. electrode cable with terminal; 20-ft. ground cable with terminals; brush; helmet with protective lens and cover glass; electrode holder; ground clamp; instruction manual. Shipped promptly from Stock. Shipping weight 185 lbs.

84WM5938R—\$15.50 Dn., Cash \$155.00

POWER LINE REQUIREMENTS

Be sure to furnish your local Power Company with specifications and obtain their permission to install welders before buying them.

POWR-KRAFT DC WELDER 259.00

(C) BELT-DRIVEN 180-AMP. DC WELDER. Direct current allows fast, low-cost welding for farms, repair shops. Use any tractor power take-off or pulley powered by 13 or more HP engine to operate. Welds all metals; ideal for repairing broken parts, hard surfaces, where electric current is not available. Lifting hook for easy mounting.

Drip-proof construction. Has 1 3/8-in. diam. keyed shaft—use V-belt or flat belt to attain recommended speed of 2400 RPM. (Belts and pulleys not included.) No current carrying parts are exposed—helps to protect operator. Class "B" insulation.

Sturdy 16-ga. steel case with dependable self-contained DC generator. Size of case 15 1/2x11 3/4x9 5/8 in. Maximum welding output 180 amps. DC at 25 volts. Minimum output 20 amps. 20% duty cycle. Open circuit voltage 49 to 53 volts. Use with any make 5/64 to 3/16 electrodes.

INCLUDES: 25-ft. electrode cable with terminal; 20-ft. ground cable with terminals; brush; helmet with protective lens and cover glass; electrode holder; ground clamp; instruction booklet. Shipping weight 205 lbs. Shipped within 30 days from Factory in Cleveland, Ohio. You pay Freight from there.

84 WM 5939F—\$26 Down, Cash \$259.00

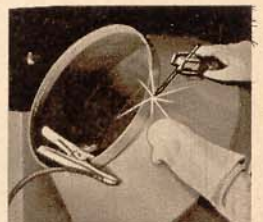
WARDS MONTHLY PAYMENT PLAN—SEE PAGE 43 FOR DETAILS AND TERMS.



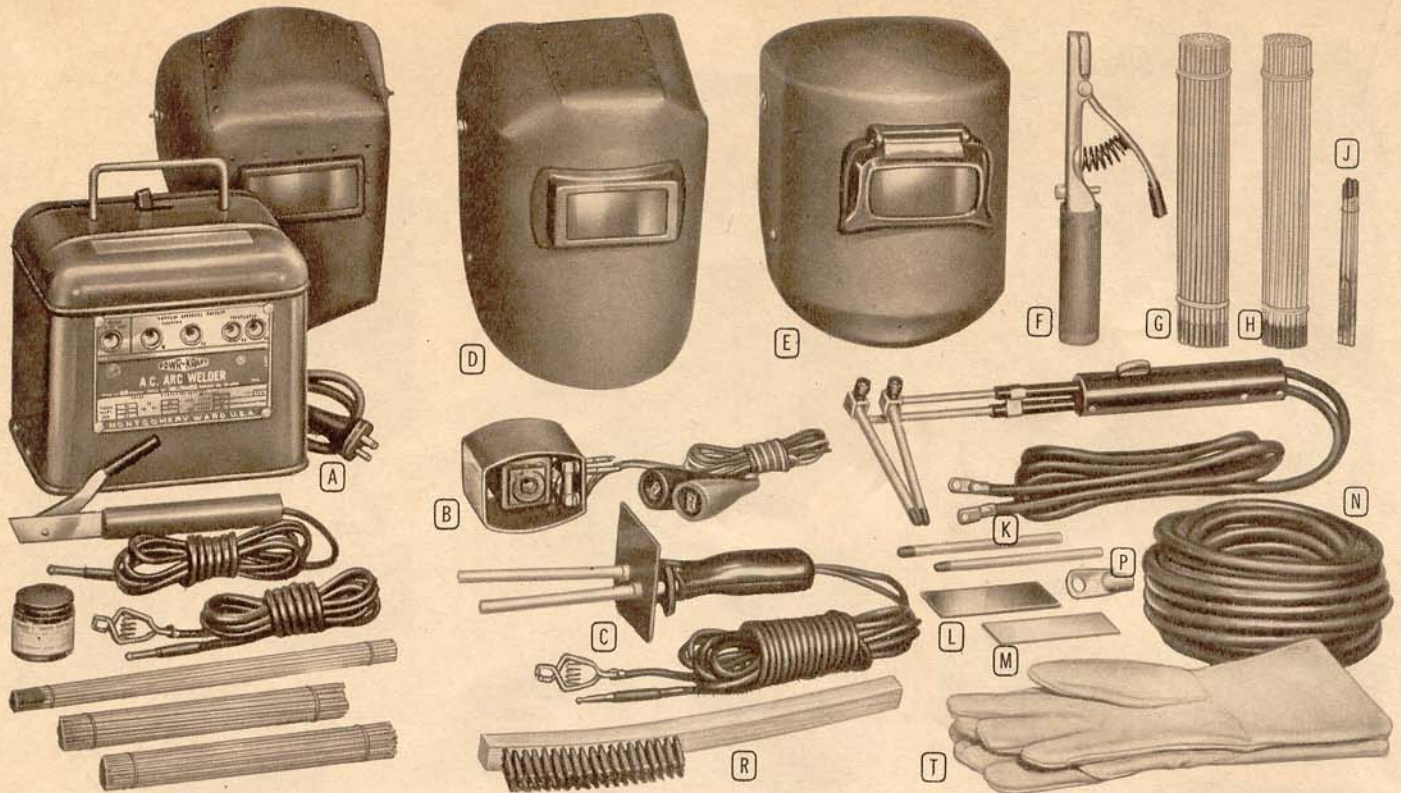
For Farm Machinery and Implements



For Garages and Repair Shops



For Contractors On-the-Job Use



115-Volt Welder . . . Electric Welding Accessories

PORTABLE ARC WELDER . . . NO SPECIAL WIRING REQUIRED 44.50

A UL Approved. Handy low-priced welder—versatile, efficient. Four heats from 35 to 65 amps. For cutting, brazing, soldering. More economical than gas welding. Welds quickly—minimizes distortion. Ideal for use by garages, metal working shops, farms, home mechanics, schools, hobbyists, etc.

SIMPLE TO INSTALL. Equipped with 6-ft. rubber-covered cord with 2-prong plug and ground attachment—just plug it in any single phase 115-volt, AC receptacle fused for 30 amps. No special wiring or plugs needed. Convenient "On-Off" switch located on top of case. Thoroughly tested at factory.

STURDY CASE. Sheet steel—approximately .040 in. thick. Compact—size overall only 9¼ by 8¼ by 9¼ in. Convenient handle on top—easily portable. Handle retracts into case when not in use. Outfit weighs only 45 lbs.

RUGGED CONSTRUCTION. High quality spun glass insulation—electric steel laminations. Windings are of Class B insulation, impregnated, baked against moisture absorption. No moving parts to wear out. No adjustment or maintenance required. Difficult to burn out if used on correct current supply.

POWER FACTOR CORRECTED TO 72%. This correction minimizes light flickering, reduces power costs and installation costs.

DUTY CYCLE (ratio of arcing time to total time welder is in use). This welder has a 20% duty cycle—actual arcing time is 2 out of every 10 minutes. Time in between arcing periods is that allocated for changing rods, etc. Has unusually low open-circuit voltage—65 volts maximum (low tap).

DOES WELDING, CUTTING, BRAZING, SOLDERING. Uses 1/16 and 5/64-in. electrodes. Welds 1/32-in. to 1/8-in. metal in single pass. Cuts up to 3/32-in. metal. Brazes quickly. Just plug Arc Torch (listed below) in welder and braze with flux coated brazing rods. Torch has finger-tip adjustment for carbons.

Simplifies wire soldering. Tip of carbon becomes white hot instantly on contact with wire to be soldered—spot heats wire and solder at same time. Heat is concentrated right at electrode, avoiding excess warpage. Use with rectifier (B) below to keep your car battery at full charge.

ACCESSORIES INCLUDED. 6-ft. rubber-covered cord, two-prong plug and ground attachment; electrode holder with 9-ft. rubber-covered cord; 5 copper coated carbons; high-grade, industrial type helmet with cover glass, lens, head-gear, chin rest; 1 lb. 1/8-in. and 1 lb. 5/64-in. diameter electrodes for mild steel, cast-iron and hard surfacing; 1 lb. of 3/32-in. brazing rods; jar of "Easy-Strike" granular powder; simplified instruction book with recommended welding procedures. *Mailable.*

84 WM 5951M—Ship. wt. 45 lbs. \$4.50 Down or Cash \$44.50

B RECTIFIER. Use with (A) for charging 6-volt lead-acid automobile type batteries. Starts charging fully discharged battery at about 4 amps., finishes at about 2 amps. when charging a 90 to 120 amp.-hr. battery. Average of 30 amp.-hrs. will be restored in 10 hrs., 45 amp.-hrs. in 15 hrs.

84 WM 5952M—Ship. wt. 2 lbs. 8 oz. *Mailable.* \$7.95

C CARBON ARC TORCH. Use with (A). Finger tip adjustment of carbons. For cutting metals, brazing, soldering, etc. 6 copper-coated carbons included. Use only copper-coated carbons.

84 WM 5915M—Ship. wt. 3 lbs. *Mailable.* \$7.50

32 WARDS CBA

BRAZING RODS. 1 lb. of 3/32-in. diam. rods.
84 WM 5985—Ship. wt. 1 lb. 8 oz. *Mailable.* . . . \$1.69

HELMETS AND ELECTRIC WELDING ACCESSORIES

D ARC WELDING HELMET. Use for 75 to 200-amp. welding jobs. Adequate for occasional welding. Riveted leak-resistant seams. No. 10 green lens in metal retainer—protected by clear, replaceable cover lens.

84 WM 5965L—Wt. 2 lbs. 2 oz. . . . \$4.15

E PROFESSIONAL ARC WELDING HELMET. Seamless model; molded. Stronger than above helmet. For all types of professional and production welding. Light touch lowers, raises snap-up lens—with lens up, welder can see to chip, scale, change electrodes, etc. Heat-resistant plastic snap-up lens retainer. Head band and chin rest fit head comfortably. Replaceable No. 12 Green Lens—for 10 to 300-amp. welding.

84 WM 5967L—Wt. 2 lbs. 12 oz. . . \$8.45

F ELECTRODE HOLDER. Holds any size electrode up to, and including, 1/4 in. Handles jobs from 0 to 300 amps. Air-cooled insulated handle.

84 WM 5916—Wt. 1 lb. 2 oz. . . . \$2.45

G LINCOLN (FLEETWELD No. 47) MILD STEEL ELECTRODES. For low current, general purpose welding on mild steel. For machine bases, trucks, trailers, tanks, farm implements, etc.

84 WM 5986—State diam. Wt. 5 lbs. 8 oz.

Diam.	Amp. Range	Length	Per 5 lbs.
5/64 in.	25-45	9 in.	\$1.69
3/32 in.	40-70	12 in.	1.29
1/8 in.	60-140	14 in.	1.07
5/32 in.	90-200	14 in.	1.07
3/16 in.	130-250	14 in.	1.05

H LINCOLN (FERROWELD) CAST-IRON ELECTRODES. For use with cast-iron where extreme machinability is not required; 1/8-in. diam. 14 in. long, 80-amp. range. Wt. 5 lbs. 8 oz.

84 WM 5989—Per 5 lbs. \$1.19

J COPPER-COATED CARBONS. Use with Twin Carbon Arc Torches.

84 WM 5911—State size.

Diam.	Length	Ship. wt.	10 for
5/32 in.	6 in.	1 lb.	\$2.10
1/4 in.	6 in.	1 lb.	95c
5/16 in.	6 in.	1 lb.	\$1.19
3/8 in.	6 in.	1 lb.	1.45

K ERGOLYTE TWIN CARBON ARC TORCH. For any arc welder. Automatic switch-off gives fast control of arc flame. Creates flame like Oxy-Acetylene torch for preheating, brazing. 15¾ in. long. Takes 1/4 to 5/16-in. coated carbons. With two 5-ft. cables, 4 assorted carbons, instr.

84 WM 5914M—Wt. 3 lbs. 8 oz. . \$12.95

L PROTECTIVE LENS. 2x4¼ in. For (D), (E). Up to 200 amp. welding. Ship. wt. 1 oz.

84 WM 5961—No. 10 Lens. Each 98c

M COVER LENS. 2x4¼ in. Chemically treated so spatter will not stick. For (D), (E) above.

84 WM 5962—Wt. 1 oz. Each 13c

N WELDING CABLE. Tough oil and waterproof rubber cover. Flexible for easy movement. No. 4 conductor. For ground or electrode on welders up to 200-amp. capacity. Wt. per foot, 4 oz. *State length.*

84 WM 5963H Per foot 24c

P WELDING CABLE LUG. Fits (N) ground or electrode cable.

84 WM 5964—Wt. 1 lb. Each 13c

R WELDERS' WIRE BRUSH. Steel bristles. Hardwood handle.

84 WM 5969—Wt. 12 oz. Each 35c

T WELDERS' GLOVES. Split horsehide. Weltd seams. Chrome tanned. 1-pc. back, palm. Lg. size.

84 WM 5960—Wt. 1 lb. Pair \$3.19

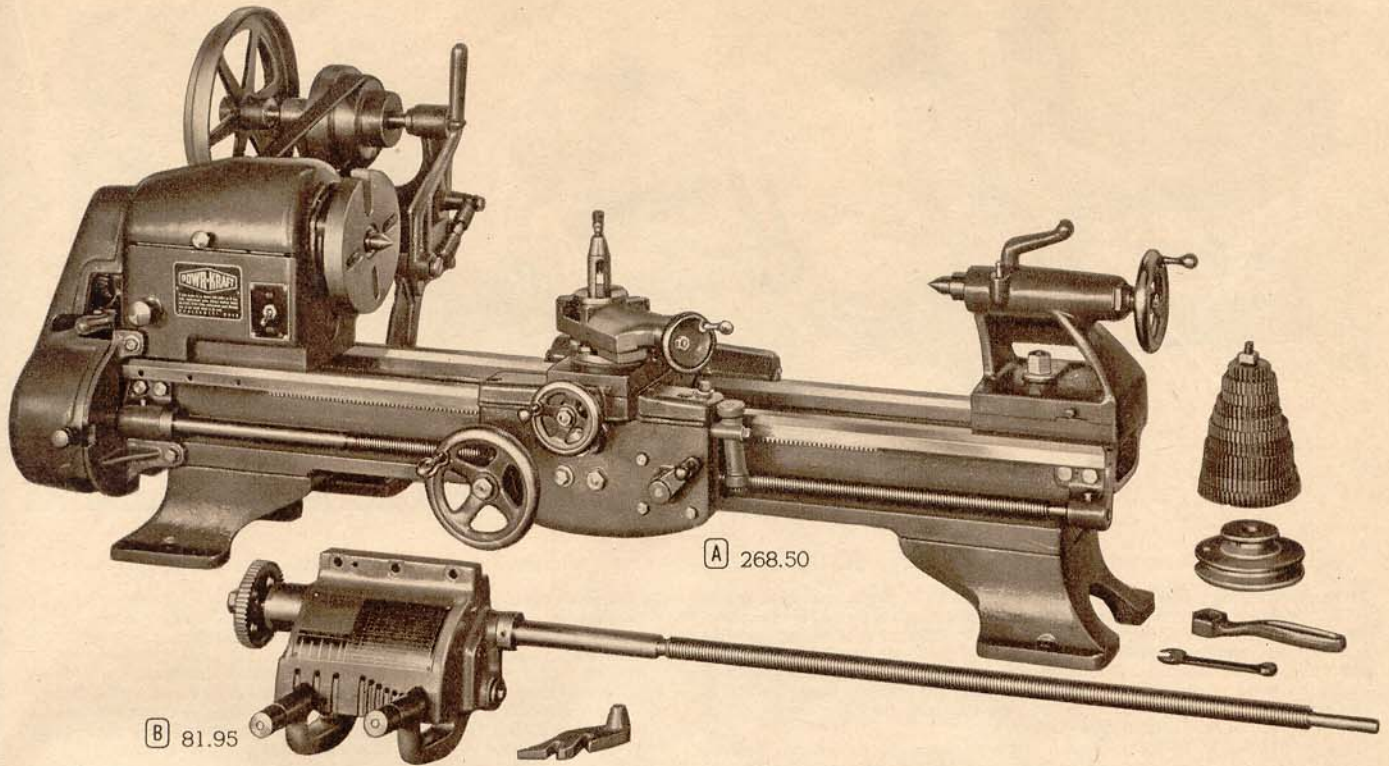
LINCOLN (ABRASOWELD) HARD SURFACING ELECTRODES (not shown). For building up new or worn parts to resist impact and severe abrasion. Use on plow shares, chains, gears, etc.

84 WM 5990 State diam. Wt. 5 lbs. 8 oz.

Diam.	Amp. Range	Length	Per 5 lbs.
5/32 in.	75-200	14 in.	1.79
3/16 in.	110-250	14 in.	1.59

PLAIN CARBON RODS (not shown). Use for cutting or soldering. 1/4-in. diam., 6 in. long. Ship. wt. 1 lb.

84 WM 5912 Package of ten 39c



Powr-Kraft Back-Geared Screw-Cutting Lathes

CHOICE OF TWO SIZES... 24 AND 31 IN. BETWEEN CENTERS 268.50 AND 282.50

A 10-IN. SWING. A fine production tool developed for the machine shop requiring a high-speed lathe of sustained accuracy. Performs within .001 in., all lathe operations. Widely used by mechanics, garages, schools, machine shops, etc. Headstock has preloaded New Departure ball bearings which permit high-speed operation with minimum spindle deflection and greater sustained accuracy. Grease sealed—require no further lubrication for life. Self-lubricating bronze bearings at 18 other points of wear reduce maintenance—result in high-speed low-cost production.

CAPACITY. 10-inch swing over bed; 6½-inch swing over saddle cross slide. Bed made of seasoned alloy castings—internal stresses removed. Width of bed across ways is 6½ inches. Two flat and two prismatic "V" ways precision ground to within .0005-inch of parallelism over entire operating area, assure dependable accuracy.

GEARS. Machine cut semi-steel; precision made—far superior to usual die-cast type. Extra-wide face; bull gear, back gears ⅝ in. wide, change gears 7/16 in. wide. With gears for 46 thread selections—4 to 216 right and left-hand threads.

BACK GEARS ENCLOSED IN HEADSTOCK. Advanced back gear design permits placing patented back gear shifter rack where it belongs—at operator's finger tips; no reaching over headstock. Assembly kept free from dirt and chips.

HEADSTOCK: Tempered, precision-ground steel spindle rides on two sets of New Departure ball bearings—takes No. 2 Morse taper accessories. 1½-in. offset for taper turning. Self-ejecting center. Carriage has power cross feed, power longitudinal feed. Cross slide graduated in .001; travels 6¼ in. Cross feed screw mounted in bronze bearings. Compound rest top slide graduated in .001; travels 2¼ in.,

TAILSTOCK, CARRIAGE AND COMPOUND REST: Tailstock spindle travels 2¾ in., graduated in 16ths—takes No. 2 Morse taper accessories. 1½-in. offset for taper turning. Self-ejecting center. Carriage has power cross feed, power longitudinal feed. Cross slide graduated in .001; travels 6¼ in. Cross feed screw mounted in bronze bearings. Compound rest top slide graduated in .001; travels 2¼ in.,

swivels 90° in both directions, locks at any angle.

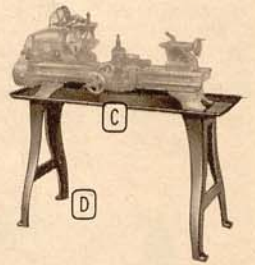
Carriage has 9-inch bearing surface on "V" and flat ways. Tool post opening for tool holder shank is ⅜ inch by ¾ inch. Use up to ¼-inch cutter bits.

DRIVE: Three-step cone pulley with flat belt drive to lathe. Two-step "V" belt drive from "V" type motor pulley to flat counter-shaft pulley. Counter shaft and motor bracket included, giving 12 spindle speeds—30 to 1450 RPM.

LATHES INCLUDE: 17 change gears (6 installed); 6-in. face plate; two 60° centers; tool post holder; thread cutting dial; flat belt; motor pulley—(with ½, ⅝ or ¾-in. bore—Be Sure to State Bore Size); wrenches; parts list, complete instruction book. Gray finish. Order motor separately, see 83 WM 4576M on Page 36. Use with 41-in. "V" belt on Page 9.

See following two pages for additional accessories to obtain maximum utility from lathe. Priority Notice: Rated orders will be given preference. Details on Page 43. *Not Mailable. Important: Be sure to state bore size of motor pulley wanted.*
 84 WM 2130R—24 in. between centers; 43½-in. bed length. Ship. wt. 320 lbs. \$27 Down... or Cash \$268.50
 84 WM 2136R—31 in. between centers; 50-in. bed length. Ship. wt. 357 lbs. \$28.50 Down... or Cash \$282.50

B QUICK CHANGE GEAR BOXES. Convert Powr-Kraft metal lathes (A) to quick change gear lathes. Corrected lead screw included. Provides 48 threads and feeds in either direction to carriage. By adjusting two levers, screw threads from 8 to 224 per in. are available. Changing 24-tooth stud gear for 48-tooth stud gear furnished with lathe, adds threads from 4 to 7 per in. Longitudinal power feeds .0015 to .1000 in. per revolution of spindle. Power cross feed .294 times longitudinal feed. Semi-steel gears, bronze self-lubricating bearings. Mailed promptly from Chicago Factory. Pay Postage from there.
 84 WM 2138K—Fits 84 WM 2130R above and old lathe No. 700. Ship. wt. 16 lbs. *Mailable.* \$8.50 Down... or Cash \$81.95
 84 WM 2139K—Fits 84 WM 2136R lathe listed above. Ship. wt. 25 lbs. *Mailable.* \$8.50 Down... or Cash \$83.95



CHIP PAN AND LEGS

C STEEL CHIP PAN. For Powr-Kraft lathes only. Heavy-gauge steel. Fits Lathes (A) above. Use with legs (D) below. Rounded corners for extra strength. Rolled trim. State Cat. No. Ship. wts. 22 and 27 lbs.
 84 WM 2141M—Fits 24-inch lathe only. Mail... \$11.95
 84 WM 2137M—Fits 31-inch lathe only. Mail... \$14.95

D CAST-IRON LEGS. Gray finish. Fit Powr-Kraft lathes only. For lathes (A) above. Give steady support—feet have bolt holes for fastening legs firmly to floor. Bolts not included. Ship. wt. per pair, 81 lbs.
 84 WM 2140R—*Not Mailable.* \$2.50 Down... or Cash \$21.95

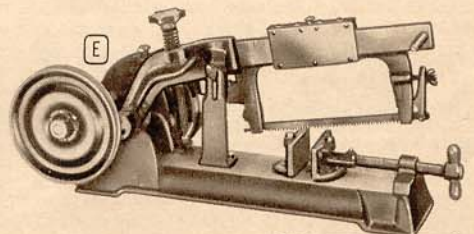
POWR-KRAFT BELT-DRIVEN POWER HACK SAW... STATIONARY TYPE 45.75

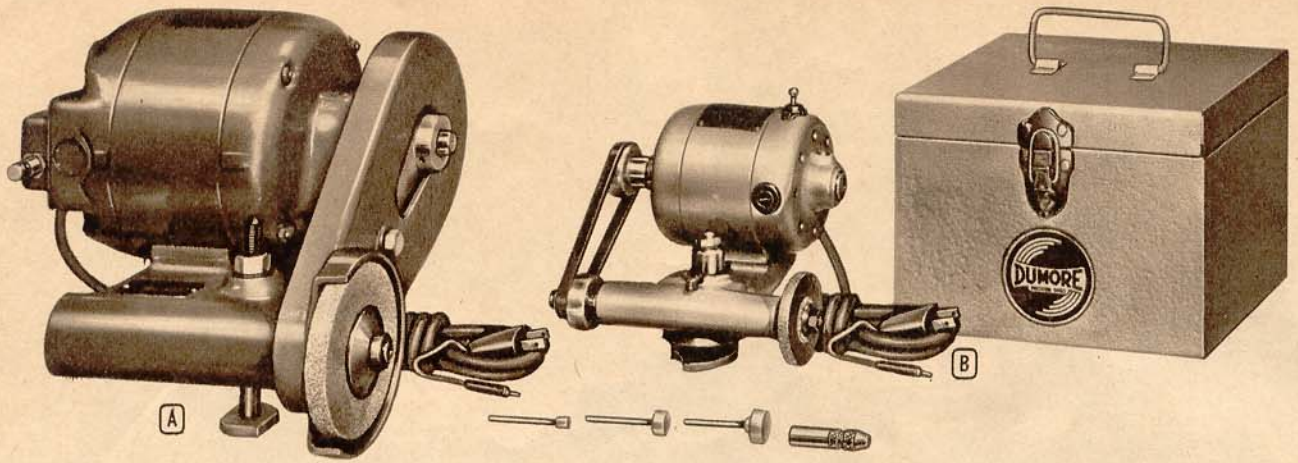
E Use in small production shops or for general, everyday run of small stock cutting. Castings of close-grained gray iron. Cam is integral with machine cut gear—controls pressure on forward stroke of blade, insures pressure relief on back stroke—for smooth cutting, longer blade life. Bronze bushed bearings give dependable performance.

Equipped with cast-iron vise—jaws 4 in. wide, 2 in. deep—opens to 4 in. Swivels to permit angle cutting from 0 to 45 degrees. Capacity 4x4 in. Length of stroke 4½ in.—90 to 100 strokes per min. Size overall: 8¼. wide, 29 in. long, 13 in. high.

Includes: One 12 by ⅝-in. power blade (for extra blades see below); and 8-in. diam. machine "V" pulley. Recommended: ½-HP, 1725 RPM motor (see Page 36), 2½-in. diam. "V" motor pulley and 44-in. "V" belt on Page 9.
 84 WM 2403R—Power Hack Saw. Ship. wt. 80 lbs. *Not Mailable.* \$5.00 Down... or Cash \$45.75

POWER HACK SAW BLADES (not shown). Use with Saw above. High-speed Molybdenum steel. 12 in. long, ⅝ in. wide. 14 teeth per in.
 84 WM 4486—Ship. wt. pair, 5 oz. . . . Pair \$1.09





Powr-Kraft, Dumore and Globe Attachments

NEW DUMORE UTILITY TOOL POST GRINDER 70.00

DUMORE PRECISION TOOL POST GRINDER 50.50

A Heavy-duty tool post grinder for use in machine shops, garages, repair and welding shops. Has plenty of power and stamina for full shift production work. Precision-built for accuracy to within .0002 in. A powerful portable unit that converts your Powr-Kraft or Logan 9 to 13-in. lathe to a precision external grinding machine. Also fits most other nationally known lathes with 9 to 13 in. swing. Can also be quickly and easily mounted on bench or lock in vise for other grinding jobs such as: Burring castings, cleaning welds, grinding, polishing, wire brushing and buffing, etc.

Heavy cast-iron frame for rigid mounting with minimum of vibration. Spindle speed 5,000 RPM. Permanent-mount 1/2-in. diam. spindle has precision grease-sealed ball bearings... lubricated for life. Takes up to 4-in. diameter wheels. 1/4-HP constant-speed, continuous duty split-phase motor for 115-volt, 60-cycle AC. Handy on-off switch mounted in motor housing.

Securely mounted on heavy T-bolt for fast lathe, vise and bench mounting. Easily portable—set where wanted for buffing and grinding. Quickly moved from one job to another. Actual weight 33 lbs. Distance from center line of spindle to frame base 3/4 in.; from spindle to mounting post base 1 1/4 in.

With 1/4-HP split-phase motor, protective belt-wheel guard and one 4x1/2x1/2 in. Dumore balanced general purpose grinding wheel. Mailed promptly Postpaid from Racine, Wisconsin Factory.

84 WMP 2240K—Only \$7 Down on Monthly Terms... Cash Price \$70.00

B For small precision jobs in machine shops, industrial schools and home workshops. Accurate to within .0001 in. Mounts on the compound rest of Powr-Kraft and Logan 10-in. lathes. Used for sharpening tools, cylindrical grinding, industrial precision grinding of small parts.

Armature and rotating parts are all dynamically balanced to prevent vibration and increase precision. Unique frame-type construction assures rigid mounting which is essential in precision grinding. Two spindle speeds—10,000 and 22,500 RPM. 1/14-HP universal motor operates on 110-120-volts AC or DC. Uses 1/8 to 2-in. diameter wheels.

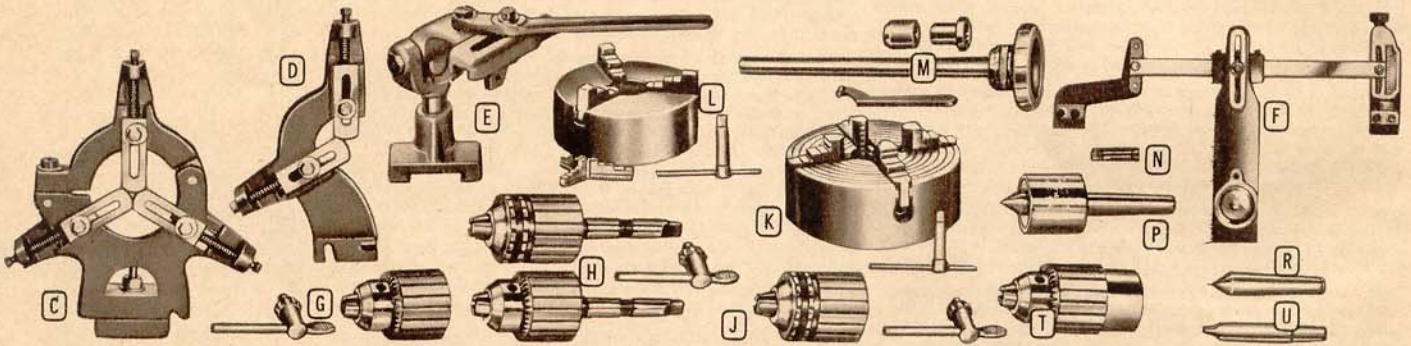
Internal grinding capacity from 1/2-inch or larger diameter to 2 1/4 inch deep. Pre-loaded ball bearing spindle with Dumore patented oiling system, removable tool post, and interchangeable chuck set-up for internal work. Mounted on "T" bolt. Distance from center line of spindle to frame base 1/2 inch; from spindle to mounting post base, 3/4 inch.

Accessories include: 1/8-in. chuck assembly for internal grinding; 2 belts, 10 1/2x3 1/8 in.: can of oil; straight wheel 2x1 1/4x1/4 inch; 3 mounted wheels; steel carrying case. Actual weight 6 1/4 lbs. Mailed Postpaid promptly from Factory in Racine, Wisconsin. \$5.50 Down on Terms.

84 WMP 2237K—External and internal grinder, complete... Cash \$50.50

84 WMP 2236K—External grinder only. Same as above less 1/8-inch chuck assembly, 1 belt, 3 mounted wheels, carrying case. \$5 Down. Cash \$45.50

Note: You may use Wards Convenient Monthly Payment Terms to purchase Power Tools and accessories. See Page 43 for details.



Accessories "C" to "U" below will fit all Powr-Kraft and Logan 10-in. metal-cutting lathes.

C CENTER REST. Clamps to inner bed ways. Top is hinged for inserting or removing shafts. Cast-iron frame; adjustable cast-iron jaws. 84 WM 2165—Ship. wt. 10 lbs. \$9.25

D FOLLOWER REST. Used for supporting thin work. Mounts on back of carriage and follows cutting tool. Sturdy cast-iron frame. Jaws adjust. 84 WM 2164—Ship. wt. 4 lbs. \$5.59

E MICA UNDERCUTTER. For armatures up to 5-inch diameter. Mounts on back of cross slide. 2-in. stroke. With one each .015 and .020 saws. 84 WM 2208K—Ship. wt. 8 lbs. \$19.95

EXTRA SAWS FOR (E). Size .015 or .020. State size. 84 WM 2209K—Ship. wt. 6 oz. Pkg. of 6... 69c

F TAPER ATTACHMENT. Tapers up to 4 inches per foot in either direction. Replace lathe cross slide with taper attachment cross slide—becomes permanent part of lathe. All parts except cross slide are easily detached when straight turning is performed. Microscrew adjustment of slide bar. 84WM2206K—Ship. wt. 18 lbs. \$5.50 Dn., Cash \$51.95

G JACOBS DRILL KEY CHUCKS. Fit headstock or tailstock on all lathes. Use with arbors at right to adapt chucks to No. 2 Morse taper. Postpaid. 84 WMP 2146—Capacity 0 to 1/2 in. \$ 8.00
84 WMP 2147—Capacity 3/16 to 3/4 in. \$11.90

H JACOBS COMMUTATOR KIT. Chucks hold armature shaft during reconditioning. Includes 1/4 to 3/4-in. cap. armature driving and center rest chucks. No. 2 Morse taper arbors included to fit headstock and tailstock. Metal box. Postpaid. 84WMP2151—Complete Kit. \$2.50 Dn., Cash \$22.55

J JACOBS CENTER REST CHUCK. Requires No. 2 Morse taper arbor (84 WMP 2153) to mount in tailstock to support centerless work. Postpaid. 84 WMP 2150K—1/4 to 3/4-in. capacity... \$11.00

K LOGAN 4-JAW, 6-IN. INDEPENDENT CHUCK. Fits lathes having 1 1/2-in. 8-thread spindle. Semi-steel—outer edge and face ground. Reversible jaws with independent screw adj. For round or irregular work—outside or inside grip. 84 WM 2143—Ship. wt. 13 lbs. \$18.35

UNION 4-JAW CHUCK. Like above. 6-in. 84 WM 2247—Ship. wt. 10 lbs. \$23.00

L 3-JAW, 5-IN. UNIVERSAL CHUCKS. Fit 1 1/2-in. 8-thread spindle. Self-centering jaws. 84WM2142—Logan Medium Duty. Wt. 9 lbs. \$29.95
84WM2207—Logan Heavy Duty. Wt. 11 lbs. 39.25
84WM2246—Union Med. Duty. Wt. 7 lbs. 8 oz. 36.50

M DRAW-IN COLLET CHUCK ATTACHMENT. Chucks round work 1/16 to 1/2 in. Hollow draw-in bar. Includes: spindle cap, closing sleeve, wrench. 84 WM 2160K—Mailable. Ship. wt. 5 lbs. \$24.95

N DRAW-IN COLLETS. Sizes: 1/16, 3/32, 1/8, 5/32, 3/16, 7/32, 1/4, 9/32, 5/16, 11/32, 3/8, 13/32, 7/16, 15/32, 1/2 in. 84 WM 2162K—Mail. Wt. 6 oz. State size. Each \$3.98

P 60° CENTERS. No. 2 Morse taper shank. Shipping weights 2 lbs.; 8 oz.

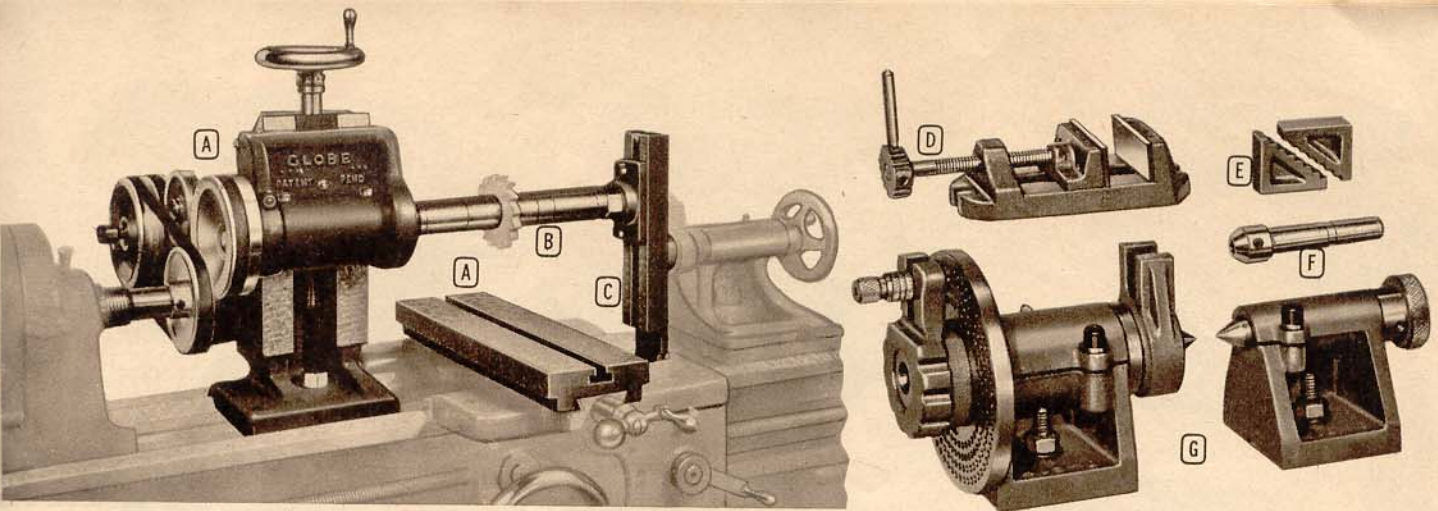
(P) 84 WM 2200K—Anti-Friction 60° Center. Ball and roller bearing. \$3 Down on Terms, Cash \$25.95
(R) 84 WM 2201K—Regular 60° Center. \$2.15

T JACOBS HEADSTOCK CHUCKS. Fit 1 1/2-in. 8-thread spindle. Hollow body. Postpaid. 84 WMP 2148K—1/8 to 3/8 in. capacity... \$16.20
84 WMP 2149K—3/16 to 3/4 in. capacity... 19.73

U JACOBS CHUCK ARBORS. Adapt chucks to No. 2 Morse Taper in lathe. Postpaid. 84 WMP 2152—Fits chuck (84 WMP 2146)... 99c
84 WMP 2153—Fits chucks (84 WMP 2147, 2150) 99c

34 WARDS 2CBA

Items "C" to "U" with Nos. ending in "K" shipped promptly from Chicago Factory.



Make Your Metal Lathe More Versatile

GLOBE MILLING HEAD... QUICKLY AND EASILY CHANGES LATHE TO MILLING MACHINE.

A Globe Milling unit quickly attaches to Powr-Kraft and Logan 10-inch lathes. Unit consists of: column, spindle assembly complete with drive pulleys, "V" belts, clamp and milling table with nut and gib.

EASY TO OPERATE. Spindle moved into position to engage work, rather than work lifted to engage spindle. Simple and accurate.

EASY TO INSTALL. Can be attached to lathe in three minutes. Base is accurately machined to fit ways of lathe and to insure that face of column is parallel with ways.

USES ALL LATHE SPEEDS. Speed ratio between lathe and miller spindle is 1 to 1. Faster speeds possible with larger pulley.

DURABLY BUILT. Large double-shielded grease sealed ball bearings and rugged construction throughout enable it to withstand the hardest use. Shipped Prepaid.

84 WMP 3415F—\$18 Down, or Cash \$178.60

B MILLING ARBORS. Alloy steel, complete with hardened end and ground spacers in standard increments. Tapped for draw-in bolt. No. 9 Brown and Sharpe taper. Arbor Support (C) should be used with 8-in. arbor (cutter not included).
84 WMP 3417K—Postpaid. 1x4 in. . . . \$22.10; 1x8 in. . . . \$31.85

C BALL BEARING ARBOR SUPPORT. Double sealed. Serves same purpose as over-arm on large millers. Use with 8-in. arbor 84 WMP 3417K. \$3 Down on Terms.
84 WMP 3416K—Postpaid.Cash \$27.30

D MILLING TABLE VISE. Close-grained casting; replaceable jaw plates. Jaws 3 1/2 in. wide, 2 7/8 in. opening, 1 3/8 in. deep.
84 WMP 3420K—3/8-in. Acme thread screw. Postpaid. . . \$28.10

E STEP BLOCKS. Hold pieces firmly. High quality, close grained casting with finished bases. Postpaid. State size.
84 WMP 3419K—2 1/2 in. high. . Pr. \$1.55; 4 1/2 in. high. . Pr. \$5.85

F END MILL HOLDER. Alloy steel holders for double end mills are made with No. 9 Brown and Sharpe taper and tapped for draw-in bolts. 1/2-in. size—fits Woodruff Cutters.
84 WMP 3418K—Postpaid. \$12.35

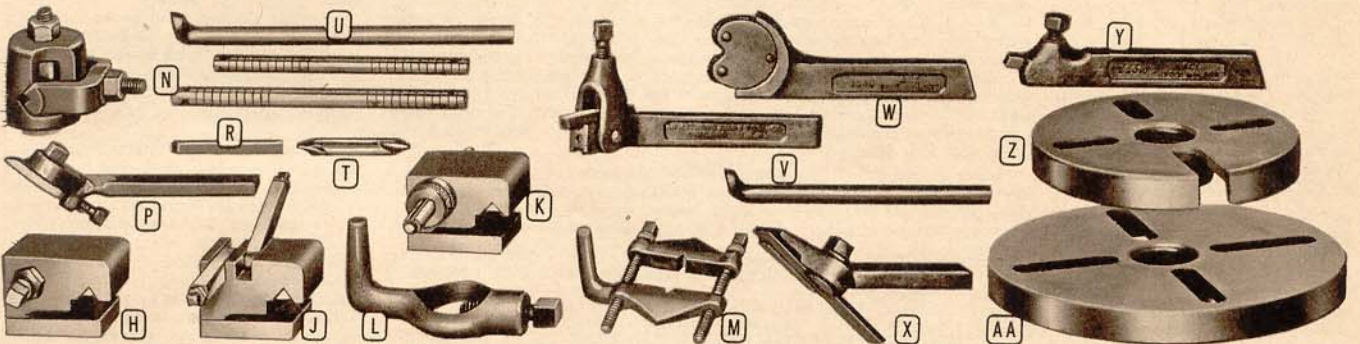
G Can be used for nearly all kinds of indexing work—cutting of spur gears, milling of index plates, milling of counterbore and reamer flutes, splined shafts, multiple key-ways, squares, opposed flats, etc.

Has swing of 4 3/4 in. when mounted directly on base. Larger swing when mounted on raising block. Headstock and tailstock carry 7/16-in. wide removable tongue. Headstock spindle carries No. 2 Morse taper center, has 3/16-in. diam. through hole, 1 3/8 threaded spindle nose to receive standard chuck and dog blocks (dog blocks included). Four hole index plate gives following divisions: All numbers 1-10, 11, 12, 14, 15, 18, 20, 22, 27, 28, 30, 44, 54, 56, 60.

Spindle, tailstock center and thrust collar bearing face hardened and ground. Center hole smoothly taper reamed. \$8.50 Down.

84 WMP 3421K—Postpaid.Cash \$81.90

All items listed above are shipped promptly from Factory in Los Angeles, California.



Carriage stops below mailed promptly from Factory in Chicago, Ill., pay postage from there.

H CARRIAGE STOP. Gives positive position stop for lathe carriage. Use either to right or left. Adjustment screw with locknut.
84 WM 2197K—Ship. wt. 2 lbs. \$3.85

J DOUBLE CARRIAGE STOP. Adjustable screw-in end of each finger sets carriage for two desired positions.
84 WM 2196K—Ship. wt. 3 lbs. \$8.25

K LOGAN MICROMETER CARRIAGE STOP. Accurately locates carriage position on lathe bed. Micrometer graduated in .001 in.
84 WM 2195K—Ship. wt. 3 lbs. \$9.95

L STANDARD LATHE DOGS. Highest quality heavy drop-forged bar steel.
84 WM 2183—State Size. Weight each, 10 oz.
1/2-inch98c; 3/4-inch \$1.08
1-inch \$1.35; 1 1/2-inch \$1.64

M CLAMP TYPE LATHE DOG. For square, hex, rectangular, round work. Mounts without removing work. Drop-forged steel.
84 WM 2182—1 3/4 in. Ship. wt. 1 lb. 4 oz. \$3.69

Items below shipped promptly from Los Angeles, California Factory.

N GLOBE BORING BAR SET. For 9 or 10-in. Logan or Powr-Kraft lathes. Holder has 3/8-3/4-in. diam. cap. 1/4-in. calibrations. Tool bit holes broached 90° one end, 45° other. Incl.: holder; 3/8, 1/2-in. boring bars; 2 wrenches.
84 WMP 2238K—Postpaid. . . . \$13.95

EXTRA GLOBE BORING BARS. With bit.
84 WM 2239K—Postpaid. State size.

Bar size	Bit size	Ship. Wt.	Each
3/8x 7 in.	1/8 in. sq.	4 oz.	\$3.50
1/2x 8 in.	3/16 in. sq.	8 oz.	3.75
5/16x 9 in.	3/16 in. sq.	12 oz.	3.85
5/8x 10 in.	3/16 in. sq.	1 lb.	3.95
3/4x 11 in.	1/4 in. sq.	1 lb. 8 oz.	4.50

TOOL BITS. Fit bars above. Wt. 8 oz.
84 WMP 2249K—Postpaid. State size.

Size, In.	6 for	Size, In.	6 for
1/8x1 3/16	\$1.20	3/16x2 1/2	\$1.80
1/8x2 1/2	1.80	1/4x1 1/4	1.50
3/16x1 1/4	1.50	1/4x2 1/2	2.10
3/16x1 3/16	1.20		

P THREADING TOOL HOLDER. 3/8x3/4-in. shank. Drop forged.
84 WM 2171—Ship. wt. 8 oz. \$4.49

R BLANK CUTTER BITS. 1/4x1/4x2".
84WM2203—Wt. 1 lb. Set of 6 \$1.25

HIGH-SPEED FORMED TOOL STEEL BITS (not shown). Includes round nose, right and left turning, right and left facing and threading bit.
84WM2204—Wt. 1 lb. Set of 6 \$1.89
84WM2205—Like above but Tungsten carbide tipped. Set of 6 \$8.45

T 60° CENTER DRILL. COUNTER-SINK. Wt. 3 oz. State size.
84WM2181—1/16 43c; 3/32 49c; 1/8 53c

U BORING BARS. Fit holder (V).
84WM2180—Wt. 3 oz. State size.
1/8x4 in. . . . 65c; 3/16x4 1/2 in. . . . 88c
1/4x5, \$1.08; 3/16x6, \$1.30; 3/8x7, \$1.75

V BORING TOOL HOLDER. With 1/4-in. boring bar, bit, wrench.
84 WM 2179—Wt. 1 lb. 4 oz. . . \$5.39

W KNURLING TOOL HOLDER. With Medium Knurl.
84 WM 2175—Wt. 10 oz. . . . \$5.39

DIAMOND FORMED KNURLS. Ship. wt. pair, 2 oz.

84 WM 2176—Fine . . . Pr. \$1.75
84 WM 2177—Med. . . . Pr. 1.75
84 WM 2178—Coarse. Pr. 1.75

X CUT-OFF TOOL HOLDER. Ship. wt. each, 9 oz.

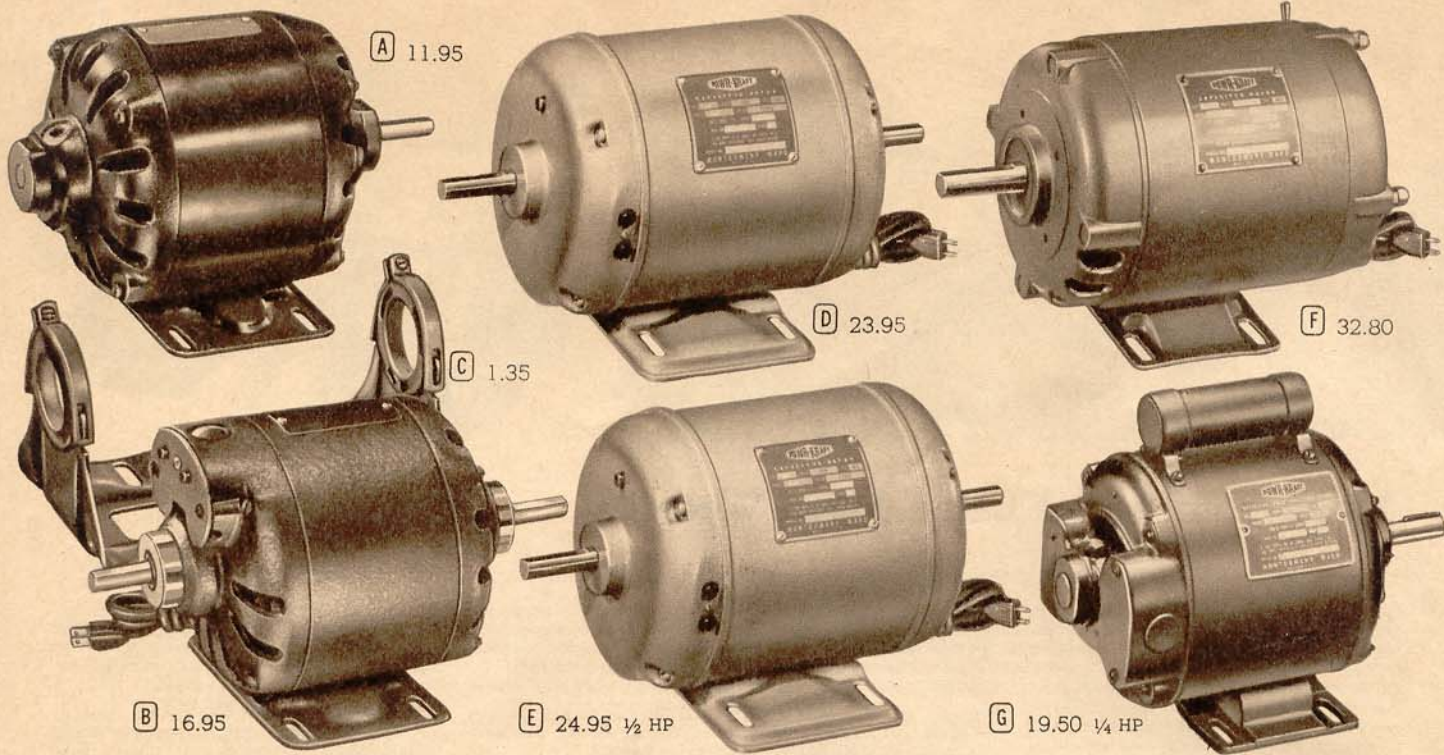
84WM2173—Rt. Hand. . . \$2.65
84WM2172—Straight. . . 2.65
84WM2174—Extra blade. Ship. wt. 1 oz. 1.19

Y DROP-FORGED HOLDERS. For 1/4-in. sq. bits. 3/8x3/4-in. shank. Av. ship. wt. 9 oz.

84WM2168—Right Hand \$2.15
84WM2169—Left Hand. . 2.15
84WM2170—Straight. . . 2.15

Z FACE PLATES. Fit Powr-Kraft, Logan and others with 1 1/2-in. 8-thread spindle. Machined and balanced.

(Z) 84 WM 2154—6-in. diam. Ship. wt. 3 lbs. 6 oz. . . \$3.85
(AA) 84 WM 2155—8-in. diam. Ship. wt. 5 lbs. 12 oz. . . \$5.75



Powr-Kraft Heavy-Duty Electric Motors

SPLIT-PHASE 11.95 Std.

(A) POWR-KRAFT SPLIT-PHASE MOTORS. Meet NEMA performance specs. Easily reversed. "Form-Var" insulation. Heavy-gauge steel frames, welded seams; Sturdy cast end bells. Slotted steel base, mounting dimen. 3x4 in. Full load speed 1725 RPM. For 110-120V. 60-cycle AC. *Mailable.*

(A) 1/3-HP STANDARD. Large sleeve bearings, steel backed babbitt construction (use horizontally). Oversized oil reservoirs. Single 1/2-in. diam. flat shaft extends 1 3/8 in. Order cord below.

83 WM 4534M—Wt. 22 lbs. . . \$11.95

HEAVY-DUTY 18-GA. MOTOR CORD. 83 WM 1273X—10 ft. Wt. 1 lb. . . 75c

(B) 1/3-HP DE LUXE. Double sealed, oversized New Departure ball-bearings—no further oiling. Use in any position. Double 1/2-in. diam. flat shaft ext. 1 3/8 in. On-off switch. 7 1/2-ft. cord, plug. 83 WM 4521M—Wt. 22 lbs. . . \$16.95

(C) RESILIENT MOUNTING KIT. Fits (A) and (B) above. Metal frame, rubber encased mounting rings. 83 WM 4535—Wt. 2 lbs. 12 oz. . . \$1.35

CAPACITOR MOTORS 23.95 TO 65.95

(D) RUGGED POWR-KRAFT CAPACITOR MOTORS. Modern design combines powerful efficient operation with streamlined appearance—no dust catching crevices. Meet or exceed NEMA performance specifications. Designed and built to give long, dependable service at peak performance. Check these (10) outstanding features: (1) Flush mounted operating controls. (2) Oversized, sealed New Departure ball-bearings—no further lubrication required—insure smooth quiet operation, use in any position. (3) Built-in Thermotron overload protector automatically shuts off motor when overload or short circuits occur—prevents motor from burning out, easily reset by push-button. (4) Capacitor (condenser) reduces starting current by 1/4 to 1/3. (5) "Form-Var" insulation . . . gives double protection against heat and moisture . . . lengthens life and efficiency of motor. (6) Centrifugal starting switch with silver contact points. (7) Fan and air vents provide proper cooling. (8) Sturdy on-off switch. (9) 7 1/2 ft. rubber cord and plug. (10) Flat double shaft.

Heavy-gauge rolled steel frame with welded seams. Drip-proof cast end frame prevents falling particles from entering motor. Slotted steel base. Gray finish. (83 WM 4577M is extra heavy duty, has single shaft with keyway, has no switch or cord.) Full load speed 1725 RPM. *Mailable.*

HIGH SPEED MOTORS. For high speed power tools. 1 and 1 1/2 HP motors have keyed shaft but no on-off switch. Full load speed 3450 RPM. *Mailable.*

Key	Catalog Number	HP	60-cycle AC (voltage)	Shaft diam.	Shaft Ext.	Mounting dimensions	Wt. lbs.	Cash
(D)	83WM4575M	1/2	110-120	1/2-in.	1 7/8-in.	3 1/2 x 5 1/8-in.	29	\$23.95
(E)	83WM4576M	1/2	110-120	1/2-in.	1 7/8-in.	3 1/2 x 5 1/8-in.	32	24.95
	83WM4577M	3/4	110-120/220-240	3/4-in.	2 1/4-in.	3 1/4 x 6 3/4-in.	47	46.50
High-Speed Motors	83WM4584M	1/2	110-120	1/2-in.	1 7/8-in.	3 1/2 x 5 1/8-in.	27	28.85
	83WM4585M	3/4	110/120	1/2-in.	1 7/8-in.	3 1/2 x 5 1/8-in.	31	33.50
	83WM4598M	1	110-120/220-240	5/8-in.	1 7/8-in.	3 x 4 7/8-in.	37	38.95
	83WM4599M	1 1/2	110-120/220-240	3/4-in.	2 1/4-in.	5 x 5 7/8-in.	56	65.95

Only 10% Down Required When Buying Motors on Terms. See Page 43.

HEAVY-DUTY 19.50 TO 32.80

(F) 1/2-HP DUAL VOLTAGE CAPACITOR. For power tools. Develops greater power for starting and short emergency periods. Pre-lubricated sealed ball-bearings. Use in any position. Built-in condenser, Klixon overload protector. Efficient fan-cooling system. "Form-Var" insulation. Slotted steel base, mounting dimensions 3x5 in. On-off switch. 7 1/2-ft. cord, plug. Full load speed 1725 RPM. For 110-120/220-240V. 60-cycle AC. 5/8-in. diam. flat shaft extends 1 3/8 in. 83 WM 4569M—Ship. wt. 34 lbs. . . \$32.80

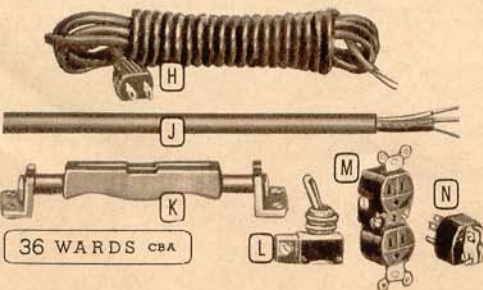
(G) INDUSTRIAL-TYPE CAPACITOR. Not a split-phase with capacitor but a true capacitor. Meets all NEMA and AIEE specs. Starts very high compression loads. Develops 2 to 3 times rated HP for starting and short periods. Withstands frequent starting and stopping, continuous duty. Easily reversed. Oversized steel-backed babbitt sleeve bearings, use horizontally. Efficient fan-cooling system. "Form-Var" insulation. Steel frame, welded seams. 5/8-in. diam. keyway shaft ext. 1 7/8 in. Slotted base, mounting dimen. 3x4 7/8 in. Full load speed 1725 RPM 60-cy. AC. 83 WM 4592M—1/4 HP. 110-120 volts. Ship. wt. 28 lbs. . . . \$19.50
83 WM 4593M—1/3 HP. 110-120/220-240V. Wt. 31 lbs. \$3 Down, Cash. . . . \$26.50

GUARANTEE: If any Wards motor, used and cared for in accordance with operating instructions, proves defective in materials or workmanship within one year after purchase, we will repair it without charge.

SELECT THE RIGHT MOTOR. Be sure to buy a motor large enough to do the job. Too small a motor will operate under continual strain, a larger one will last years longer.

SPLIT-PHASE TYPE. For easy starting jobs. For light power tools, fans, general home use, washing machines, etc.

CAPACITOR TYPE. For medium to hard starting jobs. Uses 1/3 to 1/4 starting current and starts up to 2/3 heavier loads than Split-Phase. For home workshop, power tools, water pumps, etc.



(H) 10-FT. REPLACEMENT CORD. Black rubber cord, plug. 18-gauge copper wire. 83 WM 1273—Ship. wt. 1 lb. . . . 75c

(J) HEAVY-DUTY RUBBER MOTOR CORD. 3-conductor (1 for grounding) 16-gauge copper wire. Use with (M) and (N) at right. 83 WM 1216H—Wt. per ft. 2 oz. . . . Per ft. 13c

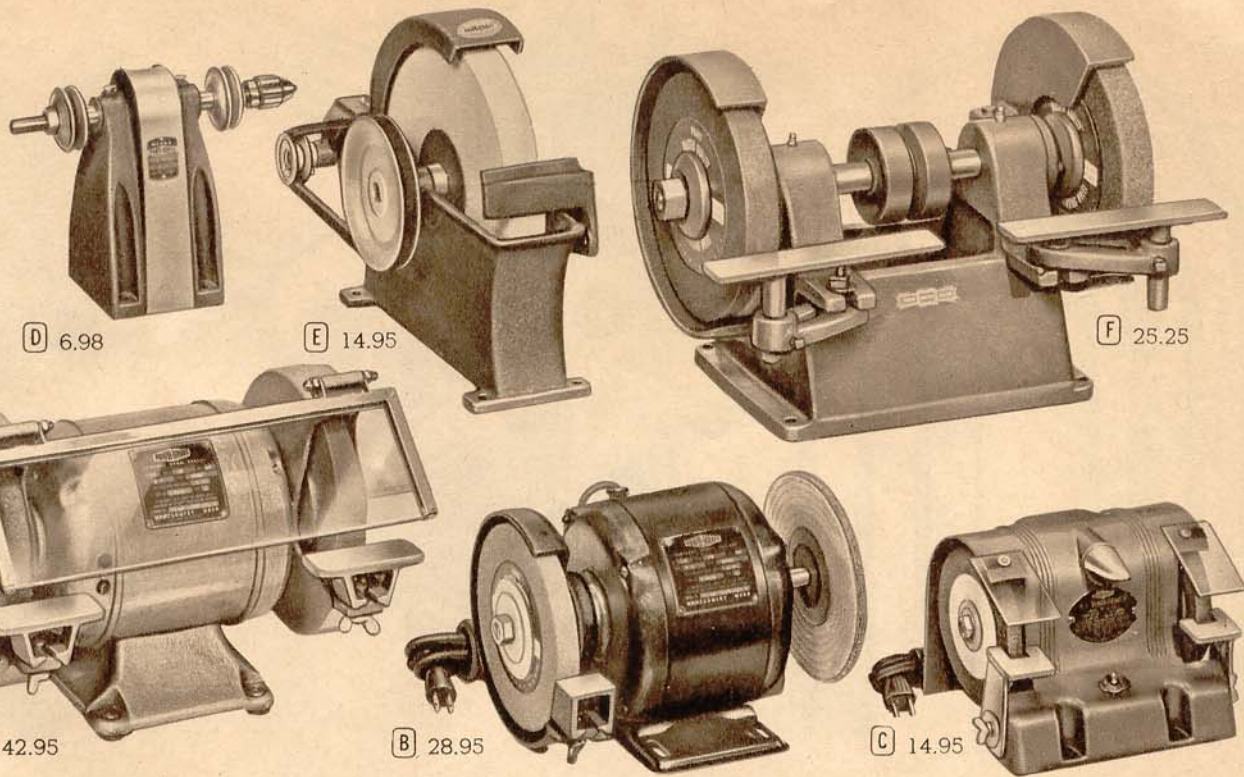
(K) MOTOR RAIL. Mount brackets near each tool, shift motor with rail attached from tool to tool. Fits 1/4 to 1/2-HP motors. 83 WM 4740—With 2 brackets. Wt. 1 lb. . . . 89c
83 WM 4741—2 Extra Brackets. Wt. 4 oz. . . . 35c

(L) TOGGLE SWITCH. For 1/3-HP motors. Fits 1/2-in. diameter hole. 83 WM 4701—Ship. wt. 2 oz. . . . 49c

(M) GROUNDING OUTLET. For washing machines, etc. Back wired. Fits standard boxes. Takes up to No. 12 wire. Bronze contacts. Rated 15 amps. at 125V., 10 amps. at 250V. Use with (N), also takes standard plugs. 83 WM 138—Brown. Ship. wt. 7 oz. . . . \$1.79

(N) 3-PRONG POLARIZED PLUG. Use with grounding outlet (M) and cord (J). 83 WM 139—Ship. wt. 3 oz. . . . 39c

36 WARDS CBA



Electric and Belt-Driven Bench Grinders

UL APPROVED ELECTRIC GRINDERS 14.95 TO 42.95

BELT-DRIVEN BENCH GRINDERS 6.98 TO 25.25

A 1/2-HP DE LUXE MODEL. Modern design with full-length shatterproof glass shield for maximum eye protection against sparks and dust. Tool rests are extra long; removable and adjustable. Runs smoothly and quietly with minimum of vibration. New Departure ball bearings sealed in grease for protection against abrasive dust. Split-phase motor has Thermotron protection against burn-outs; if overload occurs, motor shuts off—reset by button. Motor fully enclosed. No-load speed 3600 RPM; full-load speed 3450 RPM. Sturdily constructed, meets rigid requirements of American Abrasive Safety Code. Cast-iron base with holes for mounting. On-off toggle switch. Cast-iron wheel guards with removable end shields. With two Master (Best) Quality 7-in. grinding wheels; 1 medium, 1 fine grit—fit 5/8-in. diam. shaft. With cord and plug. For 110-120 volts, 60-cycle AC only. Gray wrinkle finish. *Mailable.* Ship. wt. 55 lbs.
84 WM 5119M—Only \$4.50 Down... Cash \$42.95

B 1/4-HP STANDARD MODEL. Runs smoothly and quietly with a minimum of vibration on grease-sealed New Departure ball bearings. Split-phase motor. No load speed 3600 RPM, full load speed 3450 RPM. Stamped steel base. One adjustable tool rest. One cast-iron wheel guard (1 side clear for buffing). 1 Master (Best) Quality grinding wheel 6-in. diam.; medium grit—fits 1/2-in. diam. shaft. With cloth buffing wheel, about 1 1/2-ft. cord, plug. 110-120V., 60-cycle AC. Black. *Mailable.*
84 WM 5120M—Wt. 35 lbs. \$3 Down... Cash \$28.95

C 1/12-HP ECONOMY MODEL. Work light, 2 adjustable tool rests, removable clear plastic eye shields, on-off toggle switch. Specially designed motor, runs quietly and smoothly on bronze bearings. No load speed 3500 RPM—adequate for all home and most shop needs. With two 4 1/2 x 1/2-in. grinding wheels—1 med., 1 fine grit on 3/8-in. diam., 24 thread shaft. For 110-120V., 60-cycle AC.
84 WM 5101M—Mailable. Ship. wt. 9 lbs. ... \$14.95

G GRINDING WHEELS. Coarse, medium, fine and extra fine grain. Fully vitrified. Dressed on both sides and face, lead centers with steel bushings. Wheels with center holes over 1 1/2 in. mailed from Chicago Factory.

H SAW GUMMING WHEELS—60 GRIT. Vitrified or Bakelite. Bakelite shipped promptly from Chicago Factory.

Diam. and Thickness	Ship. wt. lbs.	Coarse 24 Grit 84 WM 5202L	Medium 60 Grit 84 WM 5201L	Fine 100 Grit 84 WM 5200L	Extra Fine 200 Grit 84 WM 5203L
4x 1/4	1	55c	52c	55c	
4x 1/2	1	59c	59c	59c	
4x 3/4	2	69c	69c	69c	
4x1	2	79c	79c	79c	
6x 1/2	2	98c	98c	98c	
6x 3/4	3	\$1.19	\$1.19	\$1.19	
6x1	3	1.35	1.35	1.35	
7x 3/4	4	1.39	1.39	1.39	
7x1	5	1.59	1.59	1.59	
8x1	6	\$1.98	1.98		
8x1 1/4	8	2.29	2.29		
8x1 1/2	8	2.69			
8x2	10	3.49			
10x1 1/2	11	3.98			
10x2	15	5.49			
12x1 1/2	17	5.69			
12x2	23	7.39			
14x2	31	9.69			

IMPORTANT: Be sure to state Catalog Number, diameter, thickness, hole size.

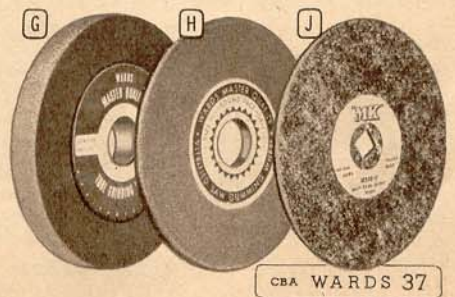
Diam. and Thickness	Ship. wt.	Bakelite 84WM5211K	Vitrified 84WM5209L
4x3/32	1 lb.	95c	State diam., thickness, hole size.
4x1/8	1 lb.	98c	
4x1/4	1 lb.	\$1.19	
6x3/32	2 lbs.	1.19	
6x1/8	2 lbs.	1.35	
6x1/4	2 lbs.	1.69	79c
6x3/8	3 lbs.	2.09	89c
6x1/2	3 lbs.	2.39	95c
8x3/32	3 lbs.	1.59	
8x1/8	3 lbs.	1.69	
8x1/4	4 lbs.	2.29	98c
8x3/8	5 lbs.	2.98	\$1.29
8x1/2	5 lbs.	3.29	1.45
10x1/8	5 lbs.	2.49	
10x1/4	6 lbs.	3.29	1.49
10x3/8	6 lbs.	3.98	1.89
10x1/2	7 lbs.	4.75	2.29
10x3/4	7 lbs.	5.00	2.65
12x1/4	7 lbs.	4.75	1.98
12x3/8	7 lbs.	5.69	2.59
12x1/2	8 lbs.	6.75	2.89
12x3/4	8 lbs.	7.00	3.69

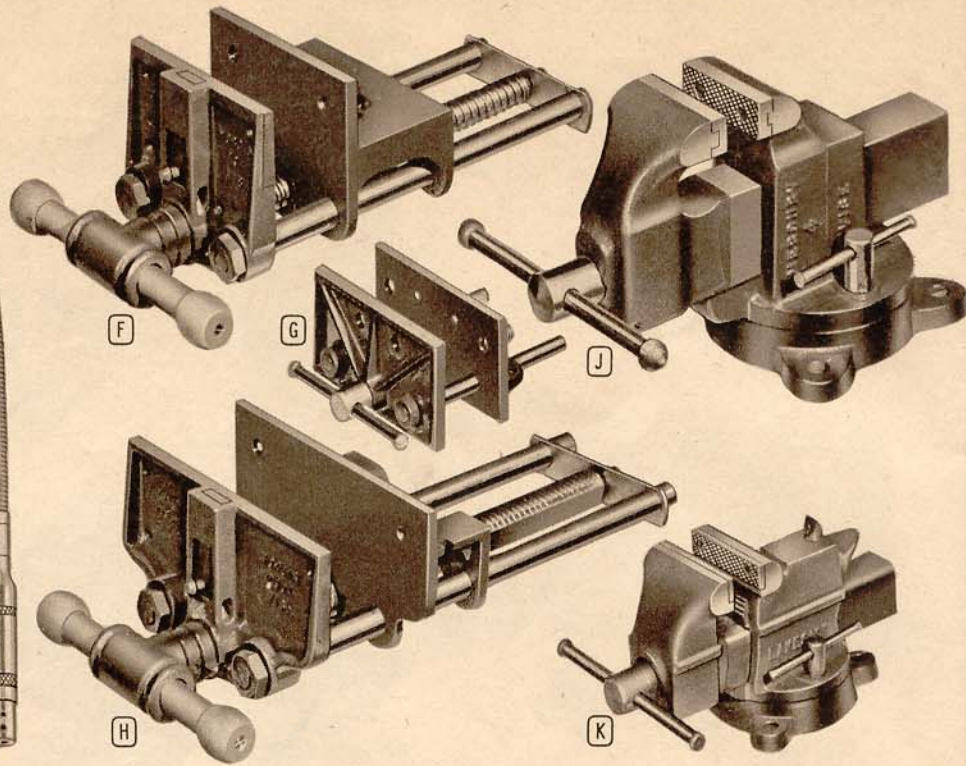
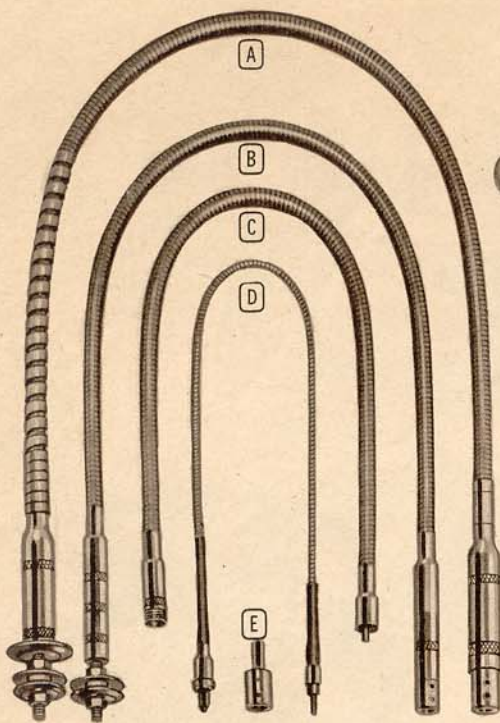
J "MX" CUT-OFF WHEELS. For fast cutting of steel, aluminum, brass, copper Masonite, Bakelite. Use for finish grinding on edge or side. Cotton fabric merged with abrasive compound provides for greater safety—will not shatter. 1-in. hole; bushings furnished for smaller holes. Recommended speed 3600 RPM. Choice of 2 grits. State wheel diameter, hole size. Postpaid.
84 WMP 5241—Fine-80 Grit. 6x3/32 in. \$1.83; 7x3/32 in. \$2.40; 8x3/32 in. \$3.06
84 WMP 5242—Coarse-24 Grit. 6x3/32 in. \$1.83; 7x3/32 in. \$2.40; 8x3/32 in. \$3.06

D POLISHING HEAD WITH JACOBS CHUCK. For polishing, grinding, wire brushing, buffing and drilling. Jacobs Hand-Tite chuck takes straight shank drills up to 1/4-in. diam. Sturdy cast-aluminum housing. Shaft about 8 1/4 in. long, 1/2-in. diam.—20 thread. 2 1/8-in. diam. flanged washers support wheels, etc. Bronze bearings. "V" pulley, 1 5/8-in. diam., can be driven from behind or below. Base size 4x4 1/8 in. Height base to center of spindle is 6 in. Use with 1/4-HP motor, 2 1/2-in. motor "V" pulley and any length "V" belt (not included).
84 WM 2761—Ship. wt. 4 lbs. 8 oz. \$6.98

E BELT-DRIVEN WET GRINDSTONE. Correct grinder to sharpen tempered tools. Operates at low speed and in water to prevent drawing the temper from your tools. Rugged grindstone constructed to withstand heavy industrial use. Natural Ohio sandstone wheel with 10-in. diam. and 1 1/2-in. face. Heavy cast-iron construction with large base; reduces vibration. 5/8-in. diam. shaft runs on self-lubricating bearings. With adjustable tool rest, 3 pulleys, "V" belt, splash guard. Gray wrinkle finish. Jack shaft reduces speed to 125 RPM when 1 1/2-in. pulley (not incl.) is used with 1725 RPM motor. Height 11 1/2 in., length 16 1/2 in.
84 WM 5285M—Mailable. Ship. wt. 31 lbs. ... \$14.95

F BELT-DRIVEN BENCH GRINDER. For extra heavy duty use. Runs quietly and smoothly on ball bearings. Two extra large tool rests, adjust horizontally and vertically. Main shaft 18 in. long, 3/4-in. diam. Cast-iron pulley 2 1/2 in. wide, 3 1/8-in. diam. for "V", round or flat belts up to 2 in. wide. Cast-iron base 12x7 1/2 in. Height from shaft center to base 7 1/4 in. With cast-iron wheel guards and two 8x1 1/4-in. vitrified wheels... 1 fine, 1 coarse.
84 WM 5187M—Mailable. Ship. wt. 60 lbs. ... \$25.25





Flexible Shafts and Accessories . . . Vises,

FLEXIBLE SHAFTS—HAVE HUNDREDS OF USES 3.98 AND 15.45

- (A B)** Fit any 1/2-in. diam. motor or line shaft. Use with no greater than 1/2-HP motor running counter-clockwise at 1725 RPM. Ball bearing hand piece, motor coupling. 1/2-in. diam. 24-thread spindle. High carbon steel wire casing and core. Medium duty flexible shaft has hand guard; light duty has torque release clutch. See accessories below. Ship. wts. 9 and 6 lbs.
(A) 84 WM 2657M—MEDIUM DUTY. 60 in. long. 3/8-in. core. . . \$15.45
(B) 84 WM 2695L—LIGHT DUTY. 50 in. long. 5/16-in. core. . . . 9.50
- (C)** FLEXIBLE SHAFT EXTENSION. Fits shaft (B) only.
 84 WM 2696L—36 in. long. 5/16-in. core. Wt. 3 1/2 lbs. . . . \$3.30
- (D)** FLEXIBLE SHAFT FOR 3-JAW CHUCKS. Fits 1/4-in. or larger chucks operating up to 6000 RPM. 36 in. long. 5/32-in. diam. high carbon steel wire core. 4-wire galv. outer casing 1 7/8-in. diam. Replaceable collets take 1/8, 3/32-in. diam. shanks.
 84 WM 2654—Bronze bearings. Ship. wt. 14 oz. \$3.98
- (E)** FLEXIBLE SHAFT ADAPTOR. Fits (A), (B) only. Wt. 4 oz.
 84 WM 2661—Adapts to fit 3/8 in. motor or line shafts. \$2c

WOODWORKERS' VISES 2.79 TO 15.94

(F G) Continuous screw type. Cast-iron jaws. Steel screws, guides. Adjustable stop on front jaw of all but (G).

Cat. No.	(F) Heavy Duty	(F) Heavy Duty	(G) Light Duty
	84WM 3162M	84WM 3163M	84WM 3159
Jaw Width	7 in.	10 in.	6 1/2 in.
Jaw Depth	4 in.	4 in.	3 1/2 in.
Jaw Opensto	9 in.	12 in.	4 1/2 in.
Screw Diam.	1 in.	1 in.	3/8 in.
Guide Diam.	7/8 in.	7/8 in.	1/2 in.
Ship. Wt.	28 lbs.	34 lbs.	6 lbs.
Price	\$11.44	\$14.45	\$2.79

(H) QUICK ACTION WOODWORKERS' VISE. Heavy-duty. Front jaw slides to material; quickly locked, released. Like Vise 84WM3163M above, but 1 1/4-in. screw.
 84WM3164M—Mail. Ship. wt. 37 lbs. \$15.94

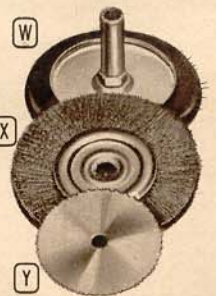
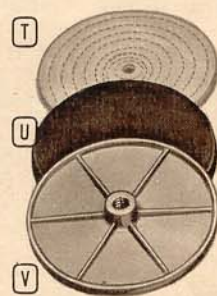
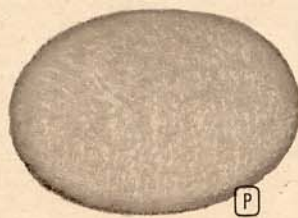
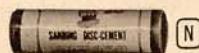
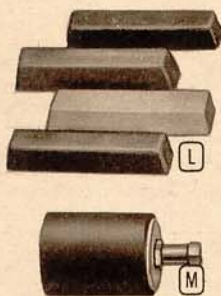
VISES 6.35 TO 24.95

(J) MACHINISTS' VISES. Heavy-duty. Removable serrated steel jaws. Semi-steel body, base. Cast-iron sliding bar. Steel Acme thread screw. *Not Mailable.*

Catalog Number	Jaw Width	Open to	Wt. lbs.	Base Swivels	Price Each
84WM5460R	4 in.	6 in.	52	360°	\$24.95
84WM5455R	4 in.	6 in.	43	Stationary	17.95

(K) BENCH VISES. For medium duty use. Semi-steel body. Polished cut-off tool, anvil surface. Replaceable steel jaws. Pipe jaws take pipe 1/4 to 2 in. Steel Acme thread screw. U-shaped sliding beam. *Mailable.*

Catalog Number	Jaw Width	Open to	Wt. lbs.	Base Swivels	Price Each
84WM5413M	3 1/2 in.	4 1/2 in.	19	90°	\$6.35
84WM5414M	4 in.	5 1/4 in.	25	360°	8.45



Use dependable Powr-Kraft Accessories listed below to make your Flexible Shafts even more useful. Items with Catalog Nos. ending in "K" are shipped promptly from Chicago Factory; pay postage from there.

- (L)** BUFFING COMPOUND ASSORTMENT. 1 each: red, white rouge, emery, Tripoli. 5 oz. bars.
 84 WM 2785—Wt. 2 lbs. \$9c
- (M)** BUFFING COMPOUND. 1 lb. cakes. Ship. wt. ea., 1 1/4 lb.
 84WM2786—Tripoli. 48c
 84WM2787—Red Rouge. 55c
 84WM2788—White Rouge 47c
 84WM2789—Emery. 44c
- (N)** SANDING DRUM. Rubber-cushioned. Expanding type. 2 5/16-in. diameter. Sleeves not included; see Page 47.
 84 WM 2665K—Ship. wt. 2 lbs. \$1.98
- (O)** SANDING DISC ADHESIVE. Fastens sheets to sanding disc. 5-in. stick.
 84 WM 2673—Ship. wt. 6 oz. 29c
- (P)** SHEEPSWOL BUFFER. For 6 to 8-in. sanding disc or face plate.
 84 WM 2674—8-in. diam. Wt. 3 oz. \$1.15
- (R)** SANDING DISCS. Ass't grits. Wt. 6 oz.
 84 WM 2672X—6-in. diam. 6 for 35c

(T) CLOTH BUFFING WHEELS. Machine sewed. 1/2-in. face, arbor hole. Ship. wts. 4 oz., 7 oz., 12 oz.
 84 WM 2784—State diam. wanted.
 4-in. diam. Each 39c; 3 for \$1.10
 6-in. diam. Each 59c; 3 for 1.70
 8-in. diam. Each 89c; 3 for 2.60

(U) RUBBER CUSHIONING PAD. For sanding discs. 6-inch diameter.
 84 WM 2680—Ship. wt. 4 oz. 37c

(V) SANDING DISC. Die-cast metal. Rigid type. Fits 1/2-in., 24-thread spindle. 6-inch diameter.
 84 WM 2668—Ship. wt. 1 lb. \$1.39

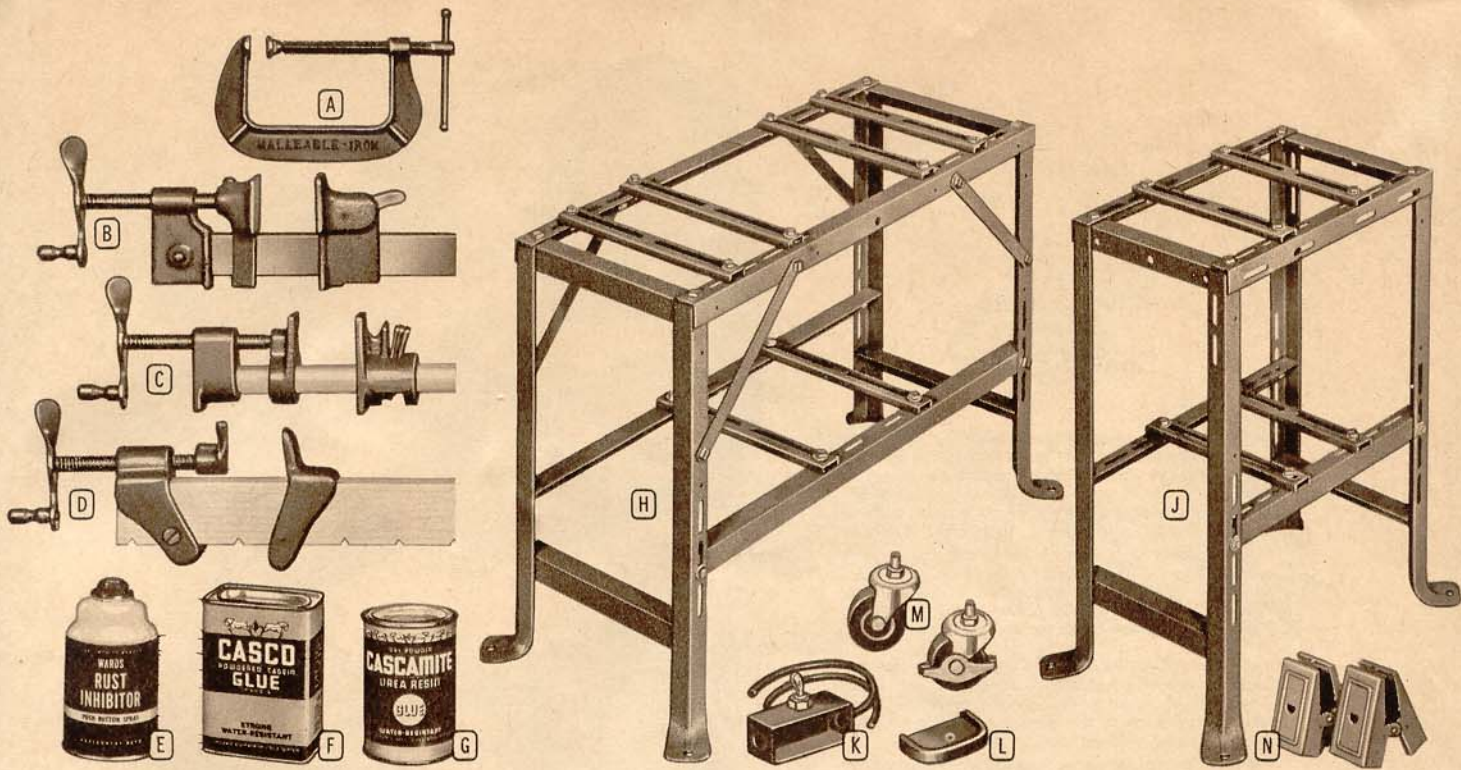
(W) SANDING SHEETS. For (V). Wt. 4 oz.
 84 WM 2670K—Med. Grit. 6 for 75c

(W) RUBBER SANDING DISC. No gluing necessary. Fits any 1/2-in., 24-thread shaft. 6 in. diam. Pliable pad held to metal plate by threaded center piece.
 84 WM 2669K—Ship. wt. 1 lb. \$1.98

(X) WIRE SCRATCH BRUSHES. For removing paint, rust, etc., quickly and easily. Hardened steel wires firmly set in steel core. State size wanted.

Diam. in.	Arbor Hole	Ship. wt.	Fine Wire 84WM2778	Coarse Wire 84WM2779
4	1/2 in.	8 oz.	55c	43c
6	1/2 in.	12 oz.	75c	58c
8	3/8 in.	1 1/4 lb.	1.00	75c

(Y) LIGHT DUTY SAW BLADE. 1/2-inch arbor hole. 4-inch diameter.
 84 WM 2675—Ship. wt. 2 oz. 39c



Woodworking Supplies, Tool Stands and Benches

WOODWORKING CLAMPS 69c to 3.98

A "C" CLAMPS. Malleable iron. Deep throats. Machine screw threads on 3-in.; Acme threads on 4 to 8-in. sizes. 84 WM 3160L—State size opening.

Opens to	Wt.	Price	Opens to	Wt.	Price
3 in.	1 lb.	69c	6 in.	3 lbs.	\$1.25
4 in.	1½ lbs.	92c	8 in.	4½ lbs.	1.62
5 in.	2½ lbs.	\$1.04			

B CABINET MAKERS' BAR CLAMPS. 1¾ x 2-in. jaw face. Bar ¼ x 1½ in. Spring lock. Crank adjusts 4½ in. State length. 84 WM 3152M—Ship. wts. 9, 10 lbs. Opens to 3 ft. \$3.55; Opens to 4 ft. \$3.98

C GLUING CLAMP. Use with ¾-in. threaded pipe (not incl.). 1½ x 1½-in. jaw face. Spring tension lock. 1½-in. crank adjustment. Steel screw. 84 WM 3151L—Ship. wt. 3 lbs. 8 oz. \$2.10

D GLUING CLAMP. Use on any length 1½ x 2½-in. wood bar (not incl.). 1½ x 1¾-in. jaw face. Crank adjusts 27/16 in. Wt. 4 lbs. 84 WM 3150L—\$1.85

E RUST INHIBITOR. Sprays plastic coating to resist rust. 5 oz. can. 84 WM 6149—Wt. 1¼ lb. \$1.39

F CASCO POWDERED CASEIN GLUE. 8 oz. can. 84 WM 3170—Wt. 12 oz. .47c

G CASCAMITE POWDERED RESIN GLUE. Water resistant. 8 oz. can. 84 WM 3172—Wt. 12 oz. .60c

ANGLE IRON POWER TOOL STANDS 9.98 to 17.50

H **J** For most bench-type power tools. Mounting rails for tool adjustable in width; for motor, in width, height. Gray wrinkle finish. Unassembled. Mailable.

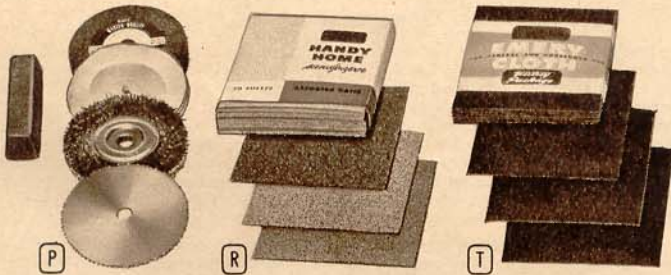
Catalog No.	Size, in.	Fits	Wt.	Price
84WM2960M	13 x14 x29	Jig Saw (2355); Shaper (2450); Sander (2702).	34 lbs.	\$ 9.98
84WM2961M	13 x20 x22	Band Saw (2315); Bench Saws (3480, 3481).	36 lbs.	10.75
84WM2962M	13 x20 x287/8	Bench Saws (2250, 2253, 2263, 2257, 2260, 2261); Sanders (2724, 2704, 2726, 2712); Band Saws (2316, 2319, 2304, 2726, 2712); Jointers (2506, 2521, 2505, 2508); Drill Presses (2530, 2533, 2535).	33 lbs.	10.89
84WM2963M	13 x24 x29	Jig Saw (2356).	36 lbs.	11.89
84WM2964Y	13 x47½ x307/8	Lathes (2002, 2004); Jig Saw (2370).	51 lbs.	14.95
84WM2965K	13 x57 x307/8	Wood Lathe (2005). (Shipped from Chgo. Fac.)	55 lbs.	16.50
84WM2966Y	14½ x34½ x25½	Bench Saw and Jointer as Combination.	47 lbs.	17.50

K REMOTE CONTROL SWITCH. For (H) (J). UL Appr. Dbl.-pole toggle switch. For motors up to 1 HP, 115-230 volts. 84 WM 2969—Ship. wt. 1 lb. \$3.95

L RUBBER FEET. For stands (H) (J). 84 WM 2968—Wt. 1 lb. Set of 4. .98c

M CASTERS. For (H) (J). Rubber wheels. Two in set have foot brakes. 84 WM 2973—Wt. 2 lbs. Set of 4. \$1.98

N SAW HORSE BRACKETS. Make saw horses with 2x4 in. lumber (not incl.). 84 WM 2970—Wt. 3 lbs. Pair \$1.75



P 5-PIECE UTILITY KIT. For flexible shafts, polishing heads, etc. Includes saw blade, grinding wheel, buffing wheel, wire scratch wheel (4-in. diam., ½-in. arbor hole), 4 oz. cake Tripoli polishing compound. Ship. wt. 2 lbs. 84 WM 2766—Kit. \$2.35

R SANDPAPER. Assorted grits. Twenty 4½ x 5-in. sheets per pkg. For 9x10-in. sheets, see below. Wt. 12 oz. 84 WM 4113—3 pkgs. for. .32c

T EMERY CLOTH. Six 4½ x 5½-in. sheets per pkg. Wt. pkg., 12 oz. 84 WM 4119—3 packages for. .38c 84 WM 4121—Six 9x11-in. sheets. State 00, 0 or 1 grit. Wt. 4 oz. .58c

84 WM 4115—SANDPAPER. 9x10 in. sheets. State grit, quantity.

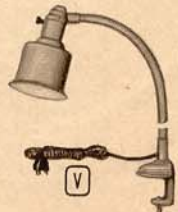
Grit	Ship. wt.	Sheets	Price	Grit	Ship. wt.	Sheets	Price
00 Fine	1 lb.	25	36c	1 Med.	1¼ lbs.	25	49c
00 Fine	4 lbs.	100	\$1.35	1 Med.	7 lbs.	100	\$1.80
0 Fine	1¼ lbs.	25	38c	1½ Coarse	2 lbs.	25	55c
0 Fine	5 lbs.	100	1.42	1½ Coarse	8 lbs.	100	1.98
½ Med.	1½ lbs.	25	42c	2 Coarse	2¼ lbs.	25	58c
½ Med.	6 lbs.	100	1.55	2 Coarse	9 lbs.	100	2.10

U UTILITY WORK BENCH. 22x60-in. top, 1½ in. thick. Kiln-dried Douglas Fir. Legs 2x4 in., table 3¾ in. from floor. Unassembled. Shipped promptly from Factory near Grand Rapids, Mich.; pay Freight from there. Ship. wt. 72 lbs. 84 WM 2956F—\$16.95

V TOOL LIGHT. UL Appr. 24 in. long overall. 18 in. flexible armored cable. "C" clamp adjusts ¾ to 1½ in. On-off switch. Cord and plug. Wt. 3 lbs. 8 oz. 84 WM 2972—\$3.15

W HEAVY DUTY WORK BENCH. 30x60 in. top, 2 in. thick. Laminated No. 1 kiln-dried Northern Maple. Legs, rails 3½ x 1½ in. 33 in. high. Unassembled. Bench and maple tops below shipped in about 3 weeks from Factory in Albany, N. Y.; pay Freight from there. 10% Down on Terms. 84 WM 2952F—Wt. 155 lbs. \$49.95

MAPLE TOPS. Like (W) without legs, rails. Not Mail. State size. 84WM2950F—Wts. 45, 60, 74, 90, 56, 74, 93, 112, 67, 90, 112, 134 lbs. 36x24 in. \$16.95; 48x24 in. \$22.95 60x24 in. 28.65; 72x24 in. 34.30 36x30 in. 21.25; 48x30 in. 28.65 60x30 in. 35.95; 72x30 in. 42.95 36x36 in. 25.65; 48x36 in. 34.50 60x36 in. 42.95; 72x36 in. 51.75



What Power Tools Shall I Buy?

By now you've decided definitely on your own power tool workshop. The "bug" has bitten you... you've read the latest hobby magazines, found or made some room in the basement, garage or utility room, saved a little money... and now you keep asking yourself "What Power Tools Shall I Buy?"

While there are many things to consider, three important factors are: (1) What type of work do I plan to do? (2) How much space do I have? (3) How much should I spend for my power tools? Let's take a closer look at these three major questions.

WHAT TYPE OF WORK DO I PLAN TO DO? Before approaching the other questions, consider first what you want to make or do with your workshop. Even if you are a beginner, the size of your shop and the tools you'll need will depend on their use.

For the general home workshop, where primarily home maintenance work, building shelves, garden furniture, etc. will be done, the basic tool is the Bench Saw. Next comes the Drill Press because of its great versatility. As you advance in woodworking proficiency, you will want to add a Jig Saw, Band Saw, Sander, Jointer, Wood Lathe and Shaper, in approximately that order, to complete your shop.

If, however, you plan to specialize in cabinet and furniture making, the Jointer will assume at least the No. 3 position in your shop, and the Sander should be given preference over the Jig or Band Saw.

Should you plan to make mostly small projects in wood or plastics the basic tool is a Jig or Band Saw. As additional tools, a Sander and Drill Press are next. A rotary hand tool is also handy.

For a metal working shop, the basic tool, without question, is the screwcutting Metal Lathe. This plus a Drill Press will do most ordinary metal working jobs. Additional tools for a complete metal shop include a Power Hacksaw and Electric Grinder.

To help decide which tools you need, you should find the individual descriptions on these pages helpful.

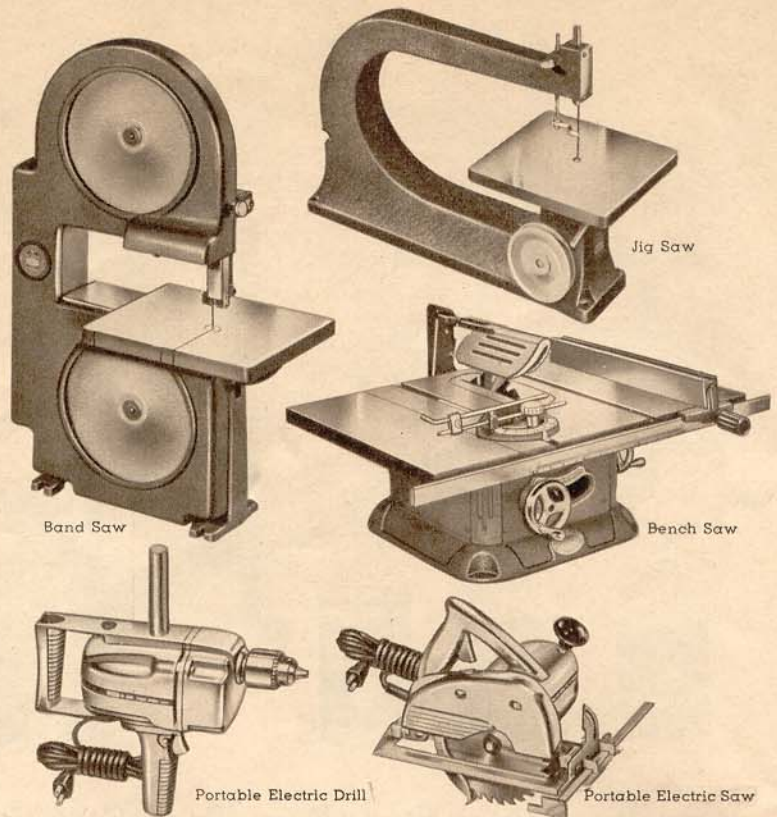
HOW MUCH SPACE DO I NEED? Workshop space will naturally depend on the size of your home and how much room you want to devote to the hobby. Most popular place for the home workshop is in the basement. This has the advantages of being heated during winter, and usually has adequate electric wiring available. Furthermore, if you decide to expand later on, additional space can usually be found.

Utility rooms found in modern homes are also suitable for workshop locations. A garage furnishes adequate space, provided heating and electricity make it practical. Any separate room can also be adapted to power tool use. Where space is limited, your tools can be put on stands equipped with casters and moved to center of room when being used.

As the ultimate in space saving, consider the Shopsmith, which combines the functions of five major power tools in one compact unit. See Pages 44 to 48.

HOW MUCH SHOULD I SPEND? Whether you have \$10 or \$1000 to spend, in deciding on how much to spend on any individual tool the *capacity* of the tool is the most important single factor. If, for example, a bench saw is your No. 1 tool, make sure that its capacity (that is, the size of work it will handle), will be adequate for your future as well as present needs. Perhaps a 6 or 7-in. saw will do your work today, but if your means permit, you will never regret in years to come buying an 8 or even 10-in. saw. It is far better in the long run to buy a few tools of ample capacity, than to find, in a year or two, that you have to replace some small-capacity tools.

However, you do not need to buy the most expensive tools to obtain satisfactory, dependable service. All Wards Power-Kraft tools offer quality performance at surprisingly low prices. And remember, at Wards, every tool is guaranteed to give you satisfaction, or your money will be refunded.



Use This Handy Guide

BENCH SAW—FOR RIPPING AND CROSSCUTTING

Most useful of all woodworking tools—probably the first power tool you will want for general use. Its main use is to rip and crosscut lumber to size, but it also may be adapted to bevel, chamfer, taper, rabbet, miter, groove, shape, dado, sand, and to make mortise and other joints. Among the many useful jobs it will help you to perform around the home are both major and minor house repairs, building outdoor furniture, making shelves for your pantry and closets, and dozens of other projects.

Most bench saws have a table which tilts to 45° for making bevel cuts. Some have tilting arbors, on which the table remains stationary and level while the blade and arbor tilt, making it easier to handle and saw long pieces of material. Overall table size is very important when choosing your bench saw. To increase this working area, table extensions are included as standard equipment on most of Wards bench saws.

Larger saws of this type are available as floor models, rather than bench models. Most popular home workshop sizes of bench saws, based upon the diameter of blade, are 6-7 inches (small), 8 inches (medium) and 10 to 12 inches (large). In choosing a size, of course, it is important to buy as large a diameter saw as your means permit—at least an 8-inch—as in all probability you will use this tool more often than any other in your shop. You won't regret it in later years. See Pages 3, 4, 5, 7 and 18.

BAND SAW—ONE OF THE MOST VERSATILE TOOLS

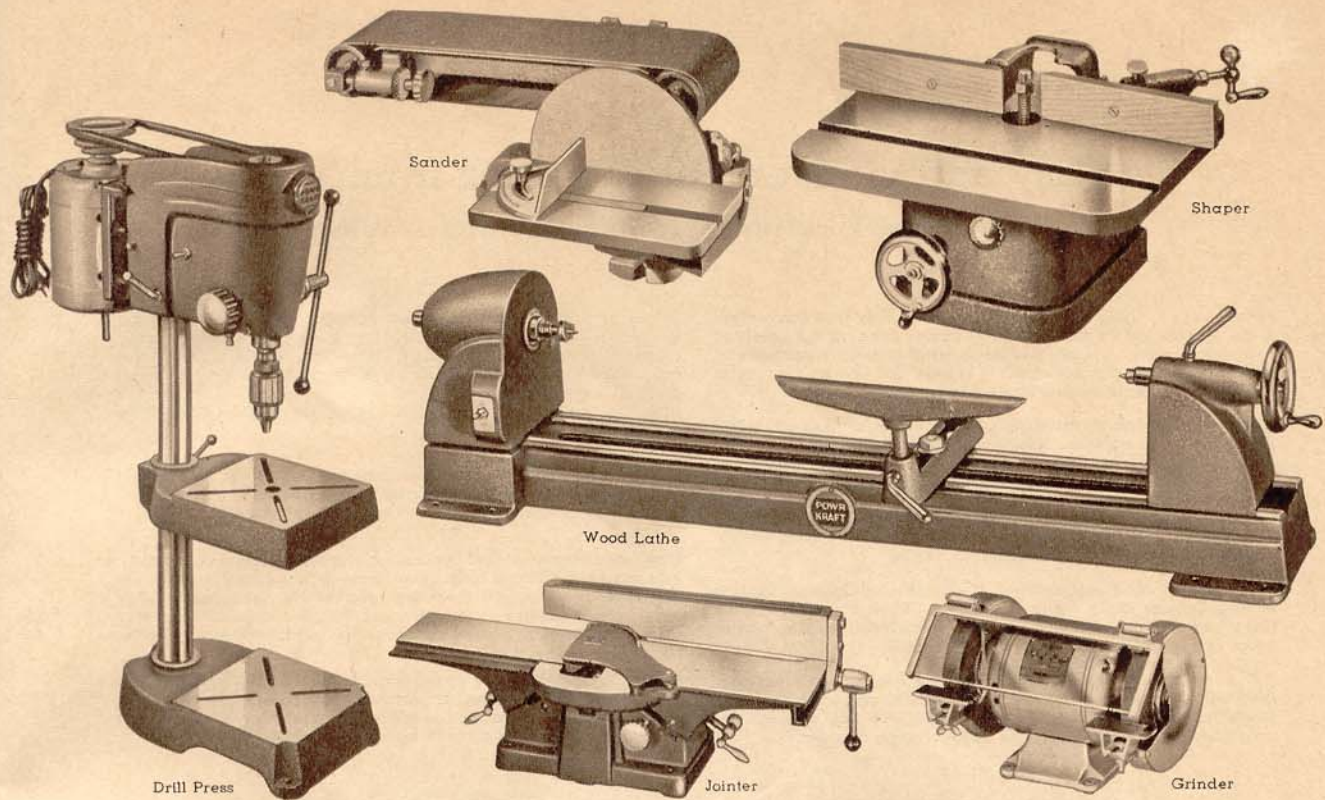
Especially useful tool if you have limited space or money to equip your shop. Many consider it the No. 1 tool if the majority of your work will consist of cabinet or furniture making or boat building. It is used principally for cutting curves, but can also be used for crosscutting, ripping and other straight cuts when fitted with miter gauge and ripping fence. Deep cutting capacity—will cut through wood blocks 4 inches or more in thickness. Compound sawing (requiring cuts from two or more sides of your stock) and multiple sawing (decorative work such as post tops, pickets, rail ends, etc.) are other useful jobs made possible with the band saw. Like the bench saw, most band saws have a table which tilts to 45° for bevel cutting. Sawing of metals is possible too with special metal cutting blades and a reduction in speed of operation.

A most important consideration in choosing a band saw is its throat capacity (distance from blade to frame). Most popular sizes for the home workshop are 9 to 10 inches (small), 12 inches (medium) and 14 to 15 inches (large). See Pages 12 and 19.

JIG SAW—FOR FINE OR INTRICATE CUTTING

Often the only tool you need if you plan to confine your projects to making small wood novelties and similar fine work. Most satisfactory of all power tools for cutting intricate inside cuts, corners, etc., as are usually found on wall shelves, brackets, magazine racks, etc. Also one of the lowest priced tools to purchase, and one of the simplest of all to operate. Ideal for the beginner in woodworking, or for starting young children in the hobby. Does finer, smoother work than the band saw—however, it is much slower and not practical for making long straight cuts. Most jig saws take stock up to 2 in. thick. Wide range of special blades are available, including saber blades as well as files for jig saws adapted for their use.

Jig saws are built in three main types: (1) regular V-belt driven models, (2) self-contained units with built-in motors, and (3) vibrator type. Most popular home workshop sizes (based on throat capacity) are the 9 to 12-inch (small), 15-inch (medium) and 24 to 26-inch (large). See Pages 10, 11 and 18 for the various models listed.



in Choosing the Power Tools You Need

PORTABLE ELECTRIC SAW—FOR FAST CUTTING

Indispensable for carpenters, builders, contractors and craftsmen wherever cutting has to be done at a distance from the shop. Does cutting 10 times faster than by hand. With a combination blade you can do ripping, crosscutting, mitering and bevel cutting. One of your handiest tools when remodeling or adding a room . . . use it for fast overhead cutting or notching of rafters or for cutting sheathing, flooring or large plywood panels. Will also cut concrete, brick, tile, cast-iron, etc., with special cut-off wheel. Available with accurate bevel and depth adjustments and some models with choice of blade on right or left-hand side. Popular home workshop sizes are 6 in. (small), 7¼ in. (med.) and 8½ in. (large). See Pages 28 and 29.

PORTABLE ELECTRIC DRILL—FOR EVERY SHOP

Principal portable power tool in most home owners and hobbyists' workshops. A necessity for the garage and maintenance shop. Its light weight and compactness make it easy also to carry with you to any job. One of the most versatile of all tools . . . can be used for wood, plastic or metal work—numerous attachments are available to make sanding, polishing, buffing, sawing, and grinding possible. Most important in choosing an electric drill is its chuck capacity—most popular sizes among home craftsmen are ¼ in. (small), ⅜ in. (med.) and ½ in. (heavy) capacities. See Pages 24 to 27.

DRILL PRESS—DOES DOZENS OF JOBS

Originally developed for drilling purposes only, the drill press has now become one of the most versatile workshop units. Performs such varied operations as drilling, routing, carving, boring, sanding, mortising, shaping, dovetailing, countersinking, planing, etc. with the proper attachments.

Multiple step pulley arrangement enables great range of speeds for operation in various materials such as wood, metal, glass or plastic. Wards offer both the floor and bench models. Using the maximum diameter of center-drilled circular work as a basis, the most popular home workshop sizes are 11 to 12 in. (small), 13 to 15 in. (med.) and 15 to 18 in. (large). See Pages 14, 15 and 19.

WOOD LATHE—FOR BASIC WOODTURNING WORK

Primarily for doing woodturning of short or long pieces between centers or for face plate work, but may be equipped to do many other useful jobs. A "must" for making spindles, lamp bases, table legs, bowls, etc. Other operations possible with a wood lathe are grinding, drilling, sanding, buffing, polishing, turning of dowels, etc.

Two capacities are considered in choosing a lathe—distance between centers and swing over bed, which determine length and diameter of work that can be turned. Popular sizes for home workshops are 24 to 27 in. between centers (small), 28 to 31 in. (medium) and 32 to 40 in. (large). See wood lathes listed on Pages 13 and 20.

SHAPER—FOR CUTTING MOLDING DESIGNS

A specialized tool used primarily to cut moldings on the edges of straight or curved stock. Assorted cutters make possible a wide variety of molding designs. Indispensable if you plan to do much furniture or trim molding work. Operates at a very high speed, making a smooth, clean and fast cut. An important consideration in choosing a shaper is its ability to be adapted to more than one cutter bore size. Many have a capacity for one size only—Ward shapers, however, are fitted with adaptors to fit both ⅝ and ½-in. bore, 3-lip cutters as well as split shaper knives and collars, making a much greater variety of combination cuts possible. See shapers on Pages 7 and 17.

SANDER—FOR FINISHING WOOD SURFACES

Will save you many hours of tedious hand labor in finishing wood projects. Three major types—"V" belt-driven models, flexible shaft-driven models, and portable models. Belt-driven types can be disc or belt types or a combination of them. Flexible shaft-driven models are of belt type. Portable types have self-contained motors and are disc or belt types. Although the most popular type for general shop use is the "V" belt-driven sander with a sanding belt, the portable and flexible shaft types are needed for sanding of boats, floors, large pieces of plywood for table tops, etc.

Width or surface area of the sander and the motor size should be checked, since greater surface area means greater resistance—hence, a motor with greater horsepower is needed. See Pages 22-23.

JOINTER-PLANER—FOR STRAIGHT STARTING EDGES

Essential to accurate craftsmanship, as it assures a straight starting edge which is necessary for accurate miter or other saw cuts. Used for squaring stock to dimensions prior to working on it with other tools and for making perfect edge-to-edge joints to be glued. Cutting rabbets, bevels and making tenon joints can also be done conveniently on the jointer.

Although edge jointing can be done equally well by any size jointer, larger models will save you time and labor by handling numerous, wide surface face planing jobs too big for smaller models. See various sizes of jointer-planers listed on Pages 16 and 20.

GRINDER—FOR SHARPENING TOOLS

Last but not the least important tool is the grinder. Used in every complete home workshop . . . it is a necessity for maintenance, metal or garage shops—wherever there are tools to be sharpened or metals to be ground. Also useful for sharpening cutlery, farm implements, and for grinding many types of materials. Removable wheels can be replaced with cloth or wire wheels for buffing and polishing.

Bench type grinders run by a "V" belt drive are satisfactory for general use—however, electric grinders with built-in motors and with wheels mounted directly on motor shafts have greater power and higher speed for heavier-duty work. See grinders on Page 37.

It's Easy and Convenient to Order from Wards

YOUR COMPLETE SATISFACTION ALWAYS GUARANTEED

Millions like to order direct by mail. It's so easy and convenient to do your shopping comfortably at home. Take all the time you want to compare qualities, decide on what is best for your needs. Then just mail your order direct to Wards. We will give it prompt and careful attention, guarantee Satisfaction in every way.

Give complete information. Make a list of items wanted, using the order blank enclosed or any plain piece of paper if no order blank is available. State the full Catalog Number (Example, 84 WM 2505M) also the name, shipping weight and price of each item. Be sure to state Size, if there is a choice and give any other information requested so we will be able to fill your order without delay. Add shipping weights to determine total weight of order and see shipping information below.

Best ways to send money are: Postal Money Orders; Express Money Orders; Bank Money Orders or Bank Drafts; Cashier's Checks or your own Personal Check. If you live on a rural route, your carrier will buy a Money Order for you.

If there is a Ward Catalog Office or Ward Retail Store near you, they will be glad to handle your order and make all arrangements for prompt shipment to your home. Or you can call for your goods and save part of the transportation charges.

Prices in this catalog reflect our established policy of quoting lower prices, wherever possible, than asked elsewhere for merchandise of comparable quality. However, should further price reductions be made on any of these items during the life of this catalog, we will fill your order at the reduced prices. We always give you the benefit of any price reductions in effect at the time your order is received.

IMPORTANT: Prices subject to change without notice. Also subject to additional charge to cover any applicable sales tax, use tax, or other tax affecting our purchase or sale of merchandise.

Due to conditions beyond our control, some items listed in our catalogs may not be available at all times in quantities sufficient to meet the demand. We therefore reserve the right to limit your order, when necessary, to a quantity that, in our opinion, permits a fair and equitable distribution of the merchandise available.

Avoid C.O.D. orders. We do not accept orders for less than \$5 to be sent C.O.D. (except for repair parts). We must also refuse to accept C.O.D. orders for merchandise cut or made to order, or for articles described as shipped directly from a Factory or Warehouse.

SHIPPING INFORMATION

Unless otherwise specified, all items in this catalog are shipped promptly from stock. You pay shipping charges from your nearest Ward Mail Order House unless description states that item is "Postpaid" or will be shipped direct to you from a factory (indicated by the letter "F" or "K" after the catalog number). On factory shipments you pay shipping charges from the factory shipping point. Please allow extra time for handling at the factory.

On all mailable items, except those marked "Postpaid", include an allowance for postage with your order (see at right). If you send too much we will return every cent not needed. Do NOT send money for Freight or Express Charges if there is an agent at your station. You can pay him when goods arrive. For estimate of charges, see below.

ESTIMATED FREIGHT RATES

Most railroads and truck lines charge the same for carrying less than 100 lbs. as for a full 100 lbs. The "minimum" is the rate for 100 lbs. of the highest rated article in the shipment, but not less than \$1.38. To estimate the freight charges on your order, simply find in the table below the kind of merchandise you are ordering and then alongside the 100-lb. rate on that item for the distance you live from our shipping point. If the distance is 250 miles, allow 1/2 the difference between the 200-mile rate and the 300-mile rate. On shipments over 100 lbs., charges are based on actual weight. Add Federal Transportation Tax of 3% to all freight charges.

MERCHANDISE	100 Miles	200 Miles	300 Miles	500 Miles	750 Miles	1000 Miles
Grinders.....	\$1.12	\$1.46	\$1.75	\$2.25	\$2.89	\$3.37
Grindstones.....	.85	1.12	1.33	1.73	2.21	2.58
Motors, Electric.....	1.12	1.46	1.75	2.25	2.89	3.37
Welders, Electric.....	1.12	1.46	1.75	2.25	2.89	3.37
Welding Equipment.....	1.12	1.46	1.75	2.25	2.89	3.37
Woodworking Tools.....	1.12	1.46	1.75	2.25	2.89	3.37

ESTIMATED EXPRESS RATES

Especially suitable for light, bulky, fragile or odd shaped articles. If your town has express delivery service, goods are delivered to your home by truck at no extra charge. It's easy to estimate express charges. See table below. If shipment weighs 150 lbs. for instance, figure 1 1/2 times the 100-lb. rate. Add Federal Transportation Tax of 3% to all express charges.

Shipping Weight	100 Miles	200 Miles	300 Miles	400 Miles	500 Miles	750 Miles	1000 Miles
5 lbs.....	\$1.50	\$1.50	\$1.50	\$1.50	\$1.50	\$1.52	\$1.58
10 lbs.....	1.50	1.50	1.57	1.63	1.69	1.81	1.93
15 lbs.....	1.50	1.61	1.72	1.83	1.91	2.08	2.27
20 lbs.....	1.60	1.74	1.88	2.03	2.13	2.37	2.61
25 lbs.....	1.69	1.86	2.05	2.23	2.35	2.66	2.95
35 lbs.....	1.86	2.02	2.37	2.62	2.80	3.22	3.64
55 lbs.....	2.23	2.62	3.02	3.42	3.69	4.35	5.02
75 lbs.....	2.58	3.13	3.67	4.22	4.78	5.20	6.39
Ea. 100 lbs.....	3.03	3.75	4.48	5.21	5.69	6.90	8.11

All rates on this page subject to change without notice.

PARCEL POST RATES

Parcels weighing not more than 70 lbs. and measuring not more than 100 inches in length plus girth (distance around) at widest point, may be mailed to all zones. Parcel Post rates subject to any change made by Postoffice Dept.

Shipping Weight of your Order	ZONES				
	Local	1-2	3	4	5
	Within This City Miles	Not Over 150 Miles	151 to 300 Miles	301 to 600 Miles	601 to 1000 Miles
2 oz. or less.....	2c	2c	2c	2c	2c
3 oz.....	3c	3c	3c	3c	3c
4 oz.....	4c	4c	4c	4c	4c
5 oz.....	5c	5c	5c	5c	5c
6 oz.....	6c	6c	6c	6c	6c
7 oz.....	7c	7c	7c	7c	7c
8 oz.....	8c	8c	8c	8c	8c
9 oz. to 1 lb.....	15c	17c	17c	19c	21c
1 lb. 1 oz. to 2 lbs.....	17c	20c	21c	24c	28c
2 lbs. 1 oz. to 3 lbs.....	18c	22c	24c	29c	35c
3 lbs. 1 oz. to 4 lbs.....	19c	25c	28c	34c	42c
4 lbs. 1 oz. to 5 lbs.....	20c	27c	31c	38c	48c
5 lbs. 1 oz. to 6 lbs.....	22c	29c	35c	43c	55c
6 lbs. 1 oz. to 7 lbs.....	23c	32c	38c	48c	62c
7 lbs. 1 oz. to 8 lbs.....	24c	34c	42c	53c	69c
8 lbs. 1 oz. to 9 lbs.....	25c	37c	45c	57c	75c
9 lbs. 1 oz. to 10 lbs.....	27c	39c	49c	62c	82c
10 lbs. 1 oz. to 11 lbs.....	28c	41c	52c	67c	89c
11 lbs. 1 oz. to 12 lbs.....	29c	44c	56c	72c	96c
12 lbs. 1 oz. to 13 lbs.....	30c	46c	59c	76c	\$1.02
13 lbs. 1 oz. to 14 lbs.....	32c	49c	63c	81c	1.09
14 lbs. 1 oz. to 15 lbs.....	33c	51c	66c	86c	1.16
15 lbs. 1 oz. to 16 lbs.....	34c	53c	70c	91c	1.23
16 lbs. 1 oz. to 17 lbs.....	35c	56c	73c	95c	1.29
17 lbs. 1 oz. to 18 lbs.....	37c	58c	77c	\$1.00	1.36
18 lbs. 1 oz. to 19 lbs.....	38c	61c	80c	1.05	1.43
19 lbs. 1 oz. to 20 lbs.....	39c	63c	84c	1.10	1.50
20 lbs. 1 oz. to 21 lbs.....	40c	65c	87c	1.14	1.56
21 lbs. 1 oz. to 22 lbs.....	42c	68c	91c	1.19	1.63
22 lbs. 1 oz. to 23 lbs.....	43c	70c	94c	1.24	1.70
23 lbs. 1 oz. to 24 lbs.....	44c	73c	98c	1.29	1.77
24 lbs. 1 oz. to 25 lbs.....	45c	75c	\$1.01	1.33	1.83
25 lbs. 1 oz. to 26 lbs.....	47c	77c	1.05	1.38	1.90
26 lbs. 1 oz. to 27 lbs.....	48c	80c	1.08	1.43	1.97
27 lbs. 1 oz. to 28 lbs.....	49c	82c	1.12	1.48	2.04
28 lbs. 1 oz. to 29 lbs.....	50c	85c	1.15	1.52	2.10
29 lbs. 1 oz. to 30 lbs.....	52c	87c	1.19	1.57	2.17
35 lbs.....	58c	99c	1.36	1.81	2.51
40 lbs.....	64c	\$1.11	1.54	2.05	2.85
45 lbs.....	70c	1.23	1.71	2.28	3.18
50 lbs.....	77c	1.35	1.89	2.52	3.52
55 lbs.....	83c	1.47	2.06	2.76	3.86
60 lbs.....	89c	1.59	2.24	3.00	4.20
70 lbs.....	\$1.02	1.83	2.59	3.47	4.87

How to Use Wards Monthly Payment Plan

ONLY 10% DOWN PAYMENT WILL PURCHASE ANY ITEM IN THIS CATALOG

Don't let lack of cash keep you from buying the items that you want. Use Wards Monthly Payment Plan to purchase the power tool equipment of your choice. Of course, paying cash is the most economical way to shop but it isn't always possible to do so. The reasonable charge for credit at Wards is well justified since you own and use quality merchandise while paying for it. There are no hidden charges at Wards. Prices are the same as for cash customers, with a small carrying charge added to the unpaid balance. You always know exactly how much extra you pay for credit. To get the most benefit from Wards Monthly Payment Plan read all of the information given below, then follow these helpful suggestions on using your credit at Wards.

HOW TO OPEN AN ACCOUNT

Write your order in the usual way on one of our order blanks, being sure the order totals \$20 or more, then fill in and sign the application for credit on the back. Minors will also have parent or guardian sign. Enclose check or money order for the down payment and mail to the Wards Mail Order House nearest you. There will be a short delay for credit investigation which is confidential. If you live near a Wards Store or Wards Catalog Office see the credit manager there, he will give you courteous prompt service and handle all the details.

REQUIRED DOWN PAYMENT

It is to your advantage to make as large a down payment as you can comfortably spare. The required down payment on merchandise in this catalog is 10% (one-tenth) but you will find it wiser to send more than the minimum amount if you can. The larger the down payment you make the lower the unpaid balance and the smaller the carrying charge. Also by making a larger down payment you may reduce the monthly payments. This is the economical way to use your credit... enjoying the use of your merchandise while at the same time keeping the already reasonable carrying charge to a bare minimum.

AMOUNT TO PAY EACH MONTH

Add up your purchases, including any tax or transportation charges to be paid by us, then subtract the amount for down payment as explained above. The remainder is the Unpaid Balance to which a carrying charge is added. Table of Terms at right shows amount of carrying charge and amount to pay monthly. Minimum monthly payment in all instances is \$5.

WARDS "ADD-ON" PLAN

After your credit is established, or if you already have an account with us, you may make additional purchases of \$10 or more to be added to your account. No further credit application is required. Just fill in and sign the "Add-on" form on the back of the order blank—and we will ship your order at once. The amount of your new purchase, plus our usual carrying charge of 10%, is then added to the amount you owe. Monthly payments will not be increased unless your new balance requires a larger monthly payment, see table at right.

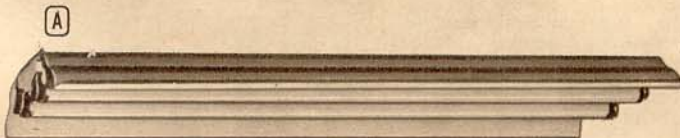
TABLE OF TERMS		
If Unpaid Balance is	We Will Add for Carrying Charge	Monthly Payment
20.00 to 22.00	2.00	5.00
22.01 to 24.00	2.25	
24.01 to 26.00	2.50	
26.01 to 28.00	2.70	
28.01 to 30.00	2.90	
30.01 to 32.00	3.10	6.00
32.01 to 34.00	3.30	
34.01 to 36.00	3.45	
36.01 to 38.00	3.70	
38.01 to 40.00	3.80	
40.01 to 45.00	4.25	7.00
45.01 to 50.00	4.75	
50.01 to 55.00	5.00	
55.01 to 60.00	5.50	
60.01 to 65.00	6.00	
65.01 to 70.00	6.50	8.00
70.01 to 75.00	7.00	
75.01 to 80.00	7.50	
80.01 to 85.00	8.00	
85.01 to 90.00	8.50	
90.01 to 95.00	9.00	9.00
95.01 to 100.00	9.50	
100.01 to 110.00	10.00	
110.01 to 120.00	11.00	
120.01 to 130.00	12.00	
130.01 to 140.00	12.75	11.00
140.01 to 150.00	13.50	
150.01 to 160.00	14.25	
160.01 to 170.00	14.50	
170.01 to 180.00	15.50	
180.01 to 190.00	16.50	13.00
190.01 to 200.00	17.50	
200.01 to 210.00	18.00	
210.01 to 220.00	19.00	
220.01 to 230.00	20.00	
230.01 to 240.00	21.00	15.00
240.01 to 250.00	22.00	
250.01 to 260.00	22.50	
260.01 to 270.00	23.50	
270.01 to 280.00	24.50	
280.01 to 290.00	25.50	18.00
290.01 to 300.00	26.50	

For terms on larger orders, write us.

IMPORTANT PRIORITY INFORMATION ON GAS WELDERS, ACCESSORIES AND METAL LATHES

In order to fill your order for gas welding equipment, we must have a priority rating from you. On metal lathes, we can fill your order faster if you give us a rating, as priority-rated orders are given preference. You may use any "DO" government agency certified rating, or you may qualify for a rating without making application to the government in one of the following 2 ways: (1) CMP Regulation 5 gives a DO-MRO rating to any business enterprise (including farming) for the purchase of maintenance, repair and operating supplies up to \$1000 every 3 months.

If you qualify, write "DO-MRO certified under CMP Regulation 5" on your order and sign your name. (2) CMP Regulation 7 gives a DO-RE rating to any repairman (one who makes repairs for others) for the purchase of materials needed in his work. If you qualify, write "DO-RE certified under CMP Regulation 7" on your order and sign your name. For copies of orders and further information see your Dept. of Commerce office.



A B 2-LT. UTILITY FLUORESCENTS. For bright, economical light in your workshop. Heavy-gauge steel. Baked-on white enamel finish. Three-hole end hangers for straight or tilt hanging. Reinforced bulb holders. Bulbs included. *Mailable.*

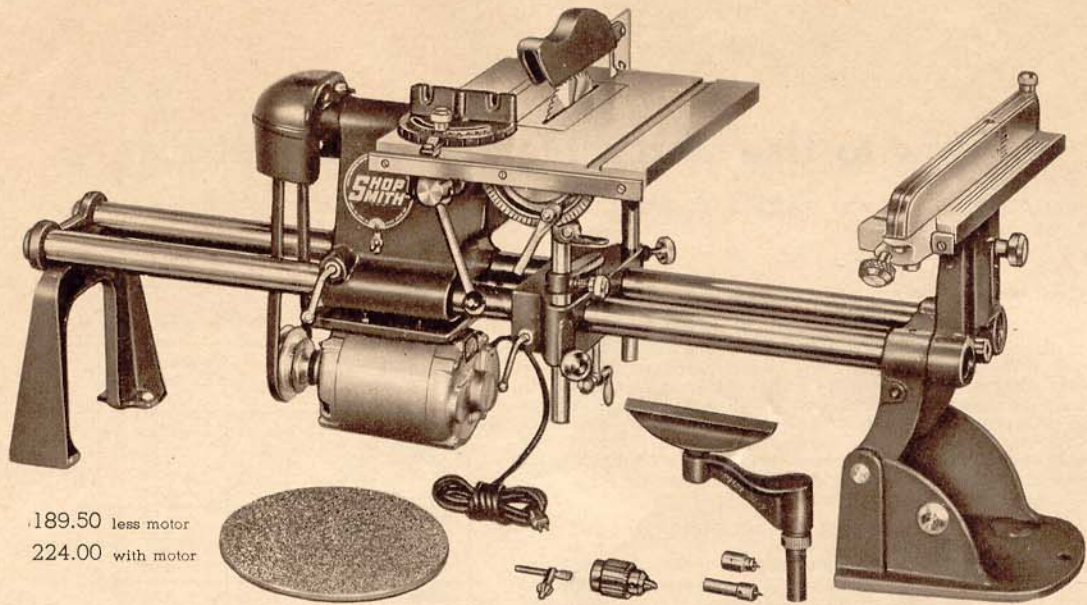
(A) 83 WM 4237M—40-WATT SIZE. 48x12½x4 in. deep. Ship. wt. 21 lbs. \$13.95

(B) 83 WM 4238M—20-WATT SIZE. 24x11¾x4 in. deep. 6-ft. cord, plug. Wt. 10 lbs. 8.95

C REFLECTOR for 3½ or 4-in. outlet box. Pull chain socket. Heavy steel. Ultraname finish, gray outside—white inside.

83 WM 3346—14-in. diam. Wt. 2 lbs. \$1.79

83 WM 3345—12 in. diam. Wt. 1 lb. 4 oz. 1.45



189.50 less motor
224.00 with motor

Shopsmith . . . The Multi-Purpose Power Tool

COMBINES BENCH SAW, DISC SANDER, WOOD LATHE, HORIZONTAL AND VERTICAL DRILL PRESS

YOU CAN OWN A SHOPSMITH FOR ONLY 10% DOWN ON WARDS CONVENIENT MONTHLY PAYMENT PLAN

The most versatile tool that you can have in your workshop. One rugged compact unit fits in basement, utility room or garage corner. Because Shopsmith is so versatile, it gives you everything you need to do the job you want to do. Quick, easy changeover from Bench Saw to Vertical or Horizontal Drill Press, Lathe or Disc Sander. Accommodates many standard accessories . . . can be supplemented to perform the functions of many other power tools with a wide variety of Shopsmith Accessories (see Pages 46 and 47). Truly a man-sized tool . . . unit with motor actually weighs 235 lbs. . . yet fits in space only 18x58½ in. In each of its five uses Shopsmith has equal or greater capacity than most single purpose tools—and one motor drives all five tools! (See pictures above and on opposite page for 5 basic positions.)

Easily mounted on stationary bench or portable truck. 1¾-in. diam. tubular ways. Heavy-duty cast-iron headstock, frame and carriage.

Included among the many Shopsmith features are the following: (1) Built-in micro table raising mechanism—arm quickly positioned for micro-adjustment of table height—ball and crank adjustment. (2) Cast-iron extension table

bracket slides in channel milled in tailstock—secured with one knob and stud screw. (3) Pressure-cast metal ribbed table extension—has fence bar in front so fence can be quickly secured and locked in any position. (4) Fence has back-lock and depth of cut scale engraved on side. Has built-in hole and set screw for simplified mortising hold-down. (5) Large miter gauge with automatic spring—stops in all critical settings—slots permit quick insertion or removal of extension. (6) Lathe tailstock has floating seat for cup center—provides positive alignment of cup and drive center. (7) Tailstock can be inverted on end of ways so extension table can be used for horizontal drilling. (8) Adjustable depth stroke scale combined with spring housing—can be quickly set at zero in any quill position. (9) Trunnion has spring loaded stop for easy table tilting—stops at 0, 45 and 90°.

As you read about Shopsmith, you will see why it gives you more quality for less money . . . the basic assemblies—headstock, motor, table and frame (the most expensive parts of any machine tool) are not duplicated.

Shopsmith does the work of the five following basic tools:

SHOPSMITH AS CIRCULAR SAW

Big 8-in. Tilting Table Saw. (Pictured above.) Has effective table width of 54 in. when used with table extension. Smooth machined table 14½x17 in.—tilts up to 45° . . . calibrated with automatic spring stops at 0°, 45° and 90°.

Max. depth of cut 2¼ in. Max. distance between blade and fence 48 in. Miter gauge graduated 60° both directions. Machined rip fence and miter gauge can be used on either side of blade. Width of cut controlled by micro-adjustment of quill, depth controlled by table raising mechanism. Adjustable blade guard and splitter.

SHOPSMITH AS LATHE

Large Capacity Lathe, 33-in. between centers and 15-in. swing over ways (see (B) on opposite page). Floating center in tailstock assures true alignment with drive center on spindle. Tool rest has 360° swing. Slides smoothly back and forth on ways—always parallel to work. Locks with carriage lock lever.

Face plate turning is easily done: Take off tailstock. Slide headstock to end of ways. Swing tool rest around. Lock in front of work. For large pieces, extend quill and spindle so they clear ways . . . capacity enough for any piece that clears floor. Speeds adjust from 850 to 3450 RPM.

SHOPSMITH AS HORIZONTAL DRILL PRESS

Six-Splined Horizontal Drill Press. (See (C) on opposite page). No limitation on size of work other than size of workshop. It drills, bores, reams, countersinks. Performs doweling and drilling operations too awkward for vertical press. Drills a series of holes precisely the same depth. Miter gauge and rip fence can be used for squaring work or handling awkward shapes.

SHOPSMITH AS VERTICAL DRILL PRESS

Six-Splined Drill Press (see (A) on opposite page) drills to center of 15-in. circle. Jacobs key chuck fits on ½-in. spindle—takes drills ⅝ to ½-in. diam. 4-in. thrust, with spring return and shock cushion . . . adjustable stop nuts . . . adjustable scale for reading the depth-of-thrust.

Feed lever can be used on either side of headstock. Rugged spindle has induction hardened tip, floats on 4 grease-sealed ball bearings. Max. distance from table to chuck 27 in., 55 in. from chuck to floor with table removed. Speed adjusts from 850 RPM to 3450 RPM.

SHOPSMITH AS DISC SANDER

Big Capacity 12-Inch Disc Sander (see (D) on opposite page). Has pressure, cast-aluminum disc, designed and balanced to perform with a minimum of wobble and vibration. Over 113 sq. in. sanding surface. Large 14½x17-in. table gives firm support to work. Easy to duplicate any number of pieces with hairline precision. Stop nuts assure sanding each piece to exactly the same dimension. Convert into handy edger. For bevel sanding, tilt table to any desired angle up to 45°. Table edge is undercut so table can be brought right up to sanding disc. Use rip fence and miter gauge as jigs.

SHOPSMITH DOES OTHER JOBS, TOO

While Shopsmith itself is a "complete package" it will perform dozens of other important workshop jobs, when used with proper accessories (see bottom of opposite page). Shopsmith does: jig sawing, flexible sanding, wire brushing, polishing, grinding, deburring, shaping, mortising, tenoning, drum sanding, rabbeting, dadoing, routing, jointing, etc., adding much to the versatility of your Shopsmith unit.

SHOPSMITH 189.50 less motor

Shopsmiths are shipped Freight Prepaid from Factories in Cleveland, Ohio and near Oakland, California. Allow factories 10 extra days.

SHOPSMITH WITHOUT MOTOR. Includes the following accessories: table extension and bracket; saw guard and splitter; 8-in. all purpose cross-cut-rip blade; saw arbor; ½-in. capacity Jacobs key chuck; 12-in. sanding disc with sanding sheet and adhesive; lathe spur and cup centers; tool rest; machined rip fence and miter gauge; 3-step "V" pulley, matching pulley for motor (fits ⅝-in. shaft); 38-in. "V" belt; bench blue print; parts list; instructions.

84 WMP 3470F—\$19 Down Cash \$189.50

SHOPSMITH WITH MOTOR. Includes all accessories listed above plus specially designed ½-HP 110-120 volt, 60-cycle, 1725 RPM, ball bearing capacitor motor with rubber cord and plug.

84 WMP 3471F—\$22.50 Down Cash \$224.00

SHOPSMITH MOTORS ONLY. Same as described in 84 WMP 3471F above. Mailed Postpaid from Factories in Cleveland, Ohio or near Oakland, California. Allow Factories 10 extra days.

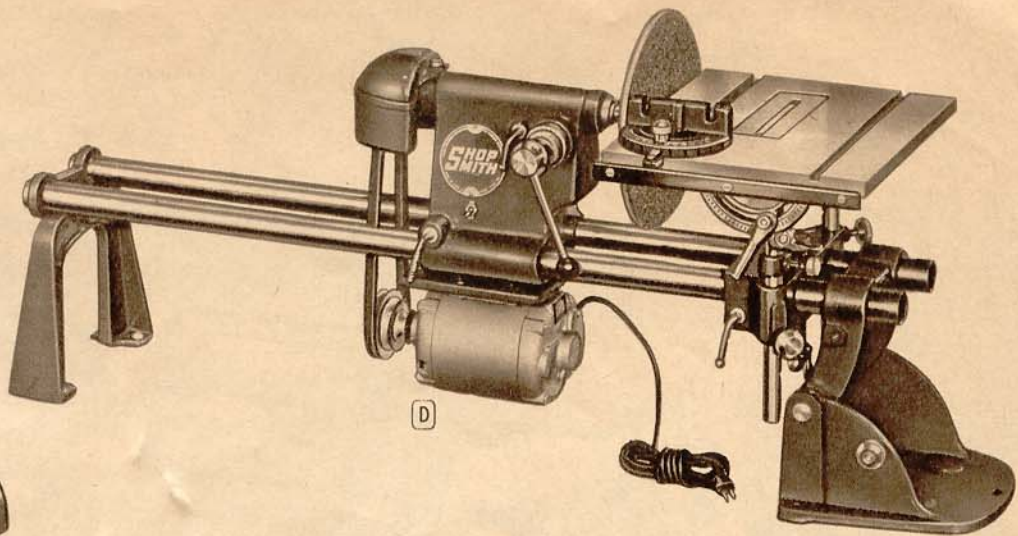
Cat. No.	H.P.	Shaft Diam.	Cash Price
84 WMP 3143K	½	⅝ in.	\$34.50
84 WMP 3144K	¾	¾ in.	45.95

3-STEP PULLEYS. Fit ½ or ¾-in. diameter motor shaft. State size bore wanted.

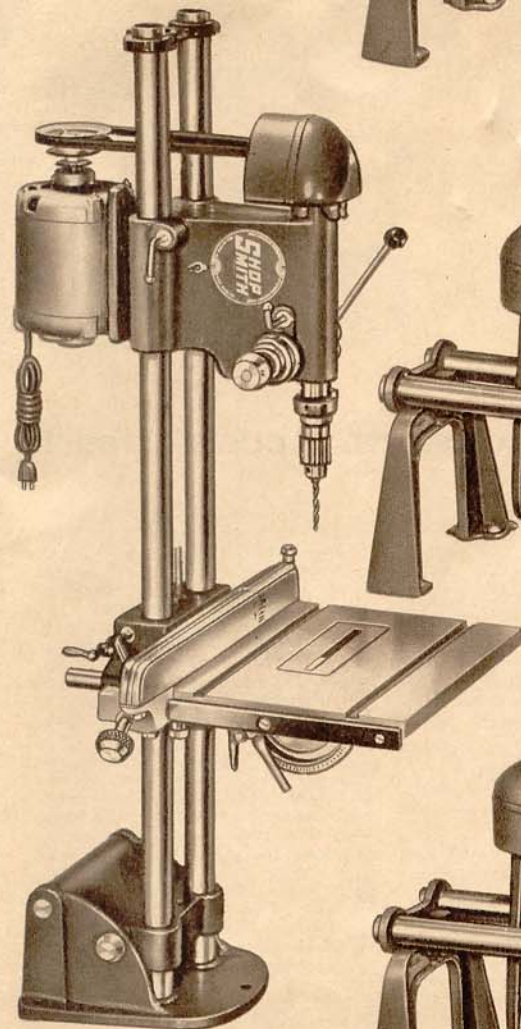
84 WMP 3145—Mailed Postpaid from Stock . . \$1.25

SHOPSMITH COVER. Heavy canvas duck. Covers entire Shopsmith when not in use.

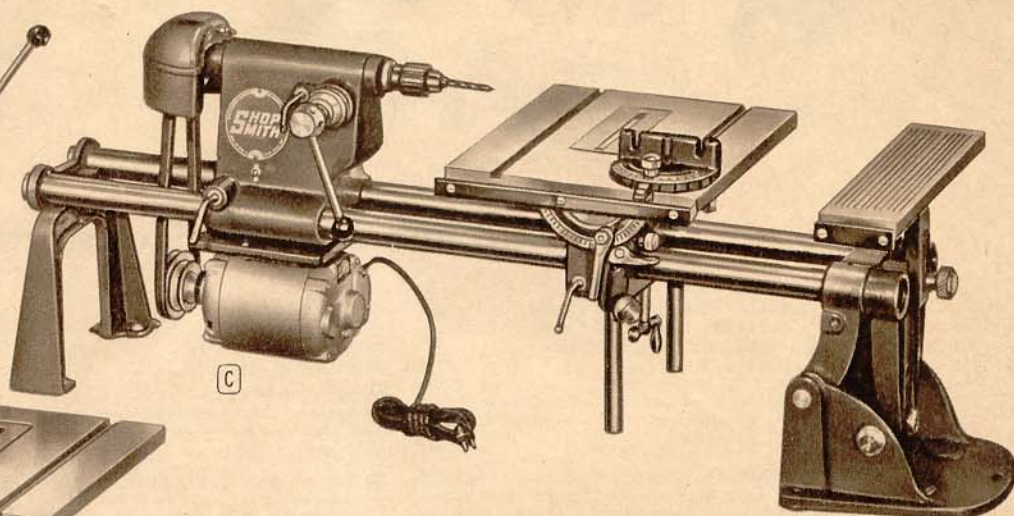
84 WMP 3464—Mailed Postpaid from Stock . . \$5.95



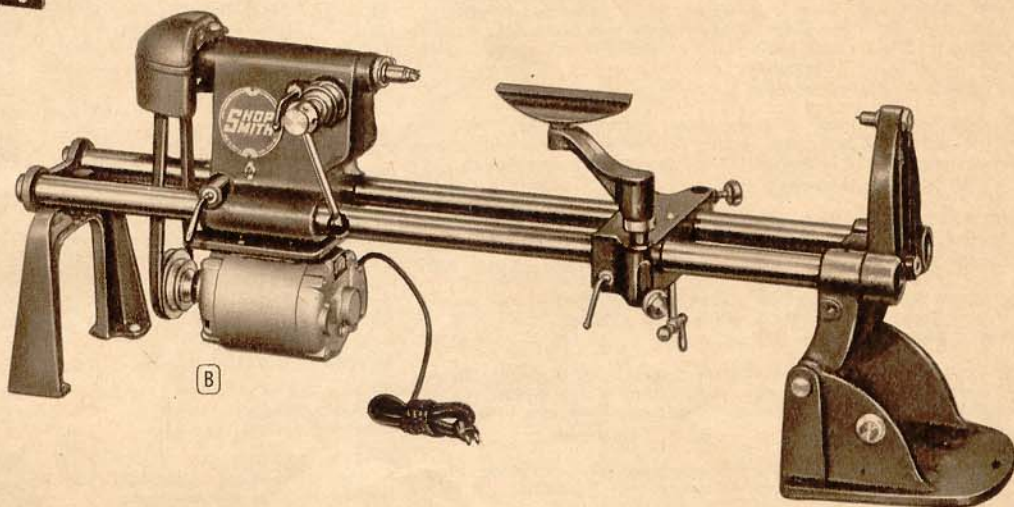
D



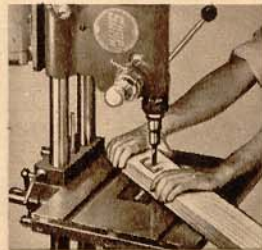
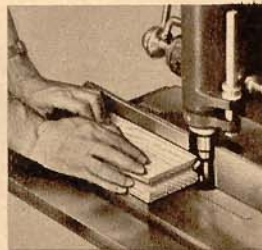
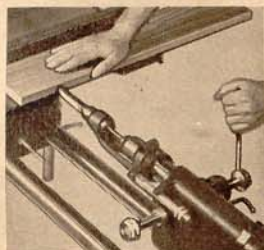
A



C



B



Convert your Shopsmith for mortising with Mortising accessories sold separately on Page 47.

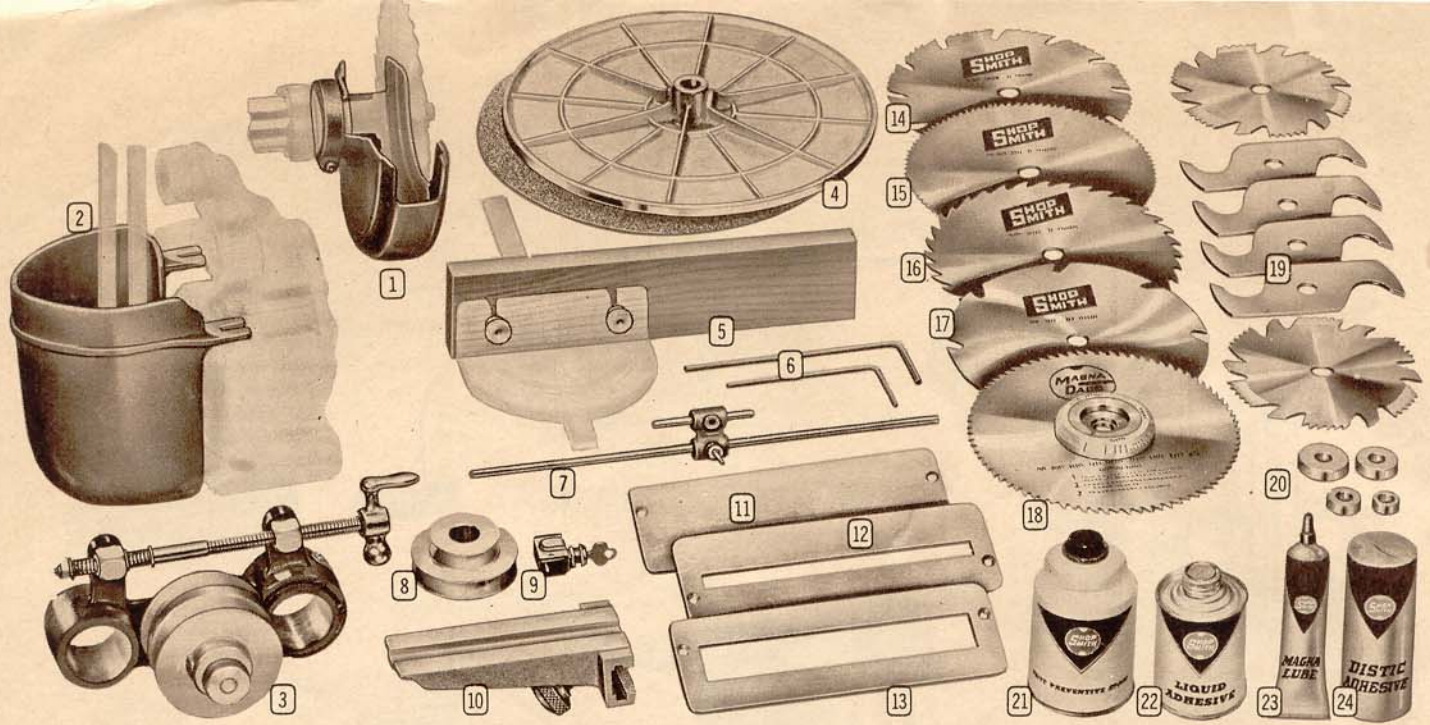
Use Drum Sander (sold separately on Page 47) in either horizontal or vertical position. It planes, sands accurately.

Rabbeting and dadoing operations are easily performed with Shopsmith. (See Page 46 for Magna Dado Assembly.)

Easily convert your Shopsmith to a shaper with shaper adaptor assembly and accessories listed on Pages 46, 47.

Converts to Router, using Speed Changer on Pg. 46.

ALL WARDS 45



A Complete Line of Shopsmith Accessories to

1 UNDERTABLE SAW GUARD. Protects under-side of saw blade. Moves with quill... clears all undertable obstructions. Cast-aluminum. Fits securely to quill with Allen set screws.
84 WMP 3467—Mailed Postpaid... \$4.95

2 MOTOR PULLEY GUARD. Need not be removed to change pulley speeds. Cast-aluminum construction. Bolts to motor bracket.
84 WMP 3466—Mailed Postpaid... \$3.50

3 SHOPSMITH SPEED CHANGER. Provides an infinite range of speeds from 425 to 6800 RPM. Permits rapid selection of exact speed required. Can be adjusted while Shopsmith is running. Insures proper speed for routing, shaping, metal drilling, buffing, bulky lathe turning, etc. Quickly attached to bed ways and headstock. Mounted as an idler pulley between motor and headstock. Speed selected with ball crank handle and etched indicator. Speed chart and two "V" belts included.
84 WMP 2979—Mailed Postpaid... \$13.95

4 DISC FOR SANDING. 12-in. diameter. Heavily ribbed. Precision machined and balanced. Speed up your work by ordering one disc for each grit of sandpaper. Order sandpaper discs below.
84 WMP 2977—Mailed Postpaid... \$3.95

SANDPAPER DISCS FOR (4) ABOVE. 12-in. diam. Paper backing. Ppd.
84 WMP 3108X—For metal. Assorted grits... 6 for \$2.25
84 WMP 2978X—For wood. State line, med., coarse, asst'd grit. 6 for 1.65

5 MITER GAUGE EXTENSION. Provides extra large miter gauge face. Top grade hardwood. (Gauge not included.)
84 WMP 3461—Mailed Postpaid... \$1.25

6 EXTRA LONG ALLEN WRENCHES. Specially produced for Shopsmith. 1/8-in. wrench longer than radius of saw blade; 3/16-in. wrench longer than radius of sanding disc. State size. Postpaid.
84 WMP 3142—1/8-in. size... 20c 3/16-in. size... 20c

7 MITER GAUGE STOP RODS. Use with miter gauge for crosscutting work pieces to same length. Adjustable from 0 to 18 in.
84 WMP 2988—Mailed Postpaid... \$1.25

25 SHOPSMITH BENCH ENDS. Heavy-gauge sheet steel... provides strong support for your Shopsmith. Designed for proper height for efficient operation of Shopsmith. Pre-drilled holes... simply attach two 2x8x57-in. boards to bench ends. (Boards not included.) Size 18 in. wide by 18 1/2 in. high. With 4 steel braces, bolts, nuts, washers and instructions. Order casters separately below.
84 WMP 2987M—Mailed Postpaid... Pair \$9.95

26 RETRACTABLE CASTERS FOR SHOPSMITH BENCH ENDS. Roll your Shopsmith to the job or out of the way for storage. Unique mechanism... retractable feature activated by continuous cam action. Bench ends can be raised 1/2 in. from floor by foot lever.
84 WMP 3465—Bolts included. Postpaid... \$11.95

8 2-STEP HEADSTOCK PULLEY. Increases pulley clearance for cross-cutting long lghs. of 2-in. rough lumber.
84 WMP 3130—Mailed Postpaid... \$1.25

9 SHOPSMITH KEY SWITCH. Similar to ignition lock. Prevents unauthorized use of Shopsmith by children.
84 WMP 3147—Mailed Postpaid... \$1.75

10 FRONT TABLE EXTENSION. Increases cut-off width to 12 in.
84 WMP 2981—Mailed Postpaid... \$2.75

11 to **13** TABLE INSERTS. Cast-aluminum, heavily ribbed.
(11) 84 WMP 2994—No slot. (Drill press.)
(12) 84 WMP 3146—1/4-in. saw slot.
(13) 84 WMP 2993—1-in. dado slot.
Mailed Postpaid... Price each 95c

14 to **17** All saw blades are of special alloy steel for long life between sharpenings. Fit 5/8-in. arbor.

14 8-IN. COMBINATION SAW BLADE. Rip-crosscut-miter. Hollow ground. For finish work. Blade tapers from teeth to center.
84 WMP 3122—Mailed Postpaid... \$5.45

15 8-IN. CROSSCUT SAW BLADE. Has special tooth design for smooth, fast cutting across grain.
84 WMP 3120—Mailed Postpaid... \$3.45

16 8-IN. RIP SAW BLADE. For smooth, fast cutting with the grain.
84 WMP 3121—Mailed Postpaid... \$3.45

17 8-IN., 8-TOOTH SAW BLADE. Cuts faster, minimizes "kickback", uses less power. Rips and crosscuts.
84 WMP 3105—Mailed Postpaid... \$3.95

ALL PURPOSE 8-IN. SAW BLADE (not shown). New 30 tooth design. For general shop work. Rips, crosscuts.
84 WMP 3106—Mailed Postpaid... \$3.45

27 SHAPER CUTTERS. 3 lip type. Use with (13) and (1) Page 47, and (20) this page.
84 WMP 3138—1/2-in. diam. bore. State Profile Letter. Prepaid... Each \$1.95

18 MAGNA DADO ASSEMBLY. 8-in. diam. geared precision model. Wobble type. Complete unit—no blades and chippers to assemble and shim. Gear synchronized one-piece unit for any grooving, dadoing, notching, cross-cutting, ripping. Cuts grooves 5/32 to 7/8 in. wide... infinite settings possible. Can also be used as a rip or crosscut blade. Fits 5/8 or 3/4-in. arbors. Use with 1-in. slot table insert (see (13), this page). Cuts to 2 in. deep.
84 WMP 3300—Mailed Postpaid... \$12.95

19 6-IN. DADO HEAD. Tempered alloy steel dados, rabbets, tenons. Maximum width of cut 13/16 in. Includes two 6-in. blades and four chippers. Use with 5/8-in. arbor and 1-in. slot table insert.
84 WMP 3126—Mailed Postpaid... \$14.95

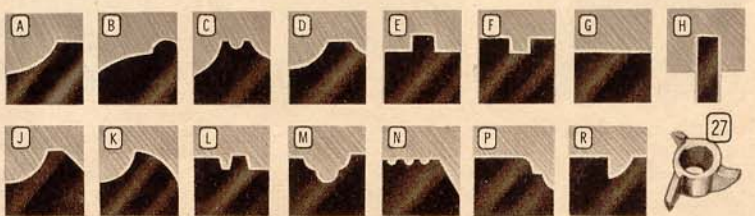
20 SHAPER COLLARS. For controlled depth of cut on curved surfaces. Fit 1/2-in. shaper adapter. Set of four—5/32 to 1 1/2-in. outside diameter.
84 WMP 3139—Postpaid. Set of four. \$1.45

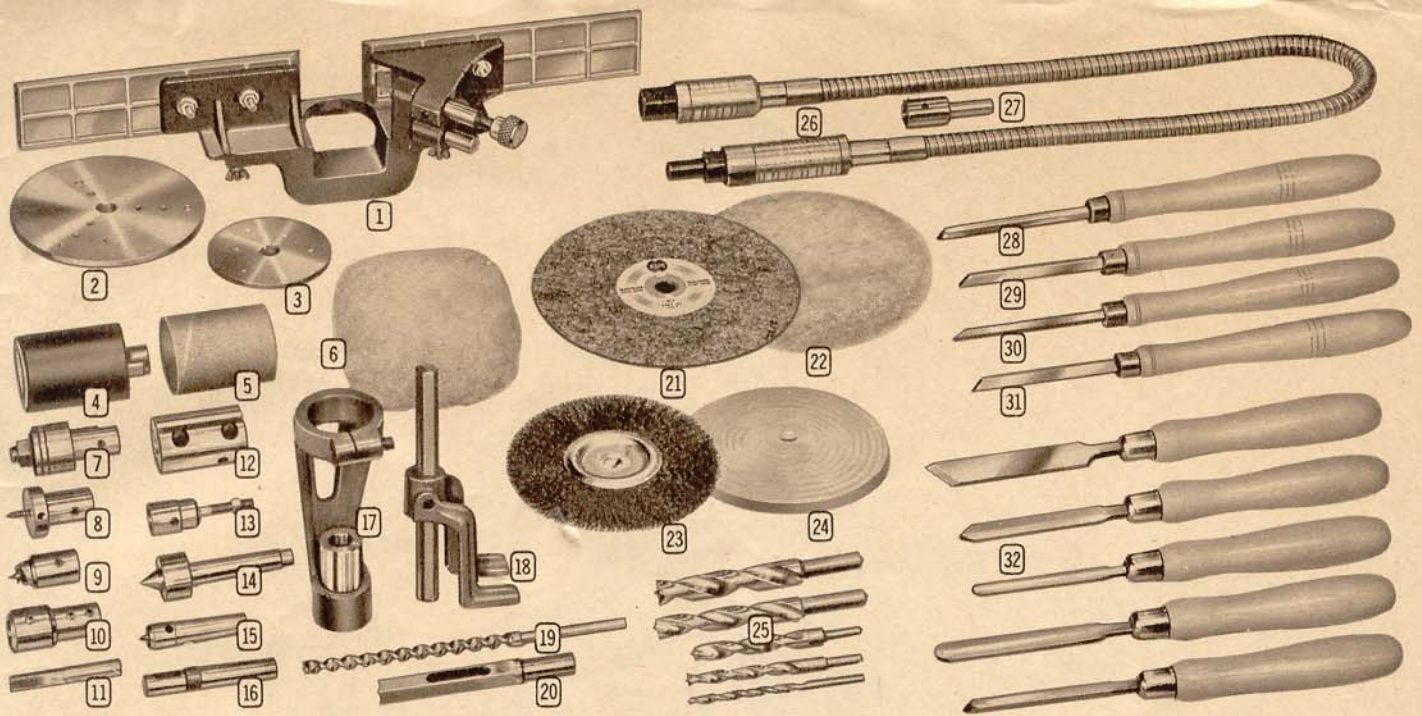
21 RUST-PREVENTATIVE SPRAY. Protects Shopsmith ways and helps keep other workshop tools free of rust.
84 WMP 3148—Mailed Postpaid... \$1.45

22 LIQUID ADHESIVE. Pressure-sensitive adhesive for sandpaper discs. Applied by brush attached to cap.
84 WMP 3149—Mailed Postpaid... 95c

23 MAGNA-LUBE. Special grease for Shopsmith drive sleeve, spindle spline and quill rack teeth.
84 WMP 3101—Mailed Postpaid... 50c

24 DISTIC ADHESIVE. Makes application and replacement of sanding discs easy. Holds paper firmly. Tube 1 7/8 x 5 in.
84 WMP 2980—Mailed Postpaid... 50c





Make Your Shopsmith Even More Versatile

- 1** JOINTER AND SHAPER FENCE. Fits in table insert opening. Operates in vertical or horizontal position, at any angle. Use with (12) below.
84 WMP 3454—Mailed Postpaid.....\$9.95
- 2** **3** FACE PLATES. Cast-iron. Mailed Postpaid.
(2) 84 WMP 2983—6-in. diameter.....\$2.75
(3) 84 WMP 2982—3 3/4-in. diameter..... 1.50
- 4** SANDING DRUM. Expanding rubber type. 2 5/16-in. diam. With 1 medium grit sleeve.
84 WMP 2975—Mailed Postpaid.....\$2.95
- 5** SANDING SLEEVES. Fit Sanding Drum (4). State line, medium, coarse or assorted grits.
84 WMP 3133—Mailed Postpaid..... 6 for \$1.10
- 6** LAMBSWOOL POLISHING PAD. Fits (4) above.
84 WMP 3129—Mailed Postpaid.....\$1.25
- 7** ARBOR ASSEMBLY. Fits Shopsmith spindle. Holds grinding wheels, saws, etc. Prepaid.
84 WMP 2996—Fits 1/2-in. bore.....\$1.25
84 WMP 2997—Fits 5/8-in. bore..... 1.25
- 8** SCREW CENTER. For turning small pieces. Replaceable with any No. 14 wood screw.
84 WMP 2990—Mailed Postpaid.....\$1.25
- 9** SPUR CENTER. Hardened, replaceable tip.
84 WMP 2991—Mailed Postpaid.....\$1.25
- 10** ROUTER CHUCKS. For routing and other operations involving added side thrust.
84 WMP 3137—Fit 1/4-in. shank. Postpaid.....\$1.25
84 WMP 3456—Fit 5/16-in. shank. Postpaid..... 1.25
84 WMP 3457—Fit 1/2-in. shank. Postpaid..... 1.25
- 11** ROUTER BITS. 1/2-in. shanks. Use with 1/2-in. router chuck. State 1/4, 5/16, 3/8 or 1/2-in. cut.
84 WMP 3136—Mailed Postpaid.....Each \$1.45
- 12** JOINTER-CUTTER. Joins stock to 2 1/2-in. wide. Use with (1). 3 removable cutter blades.
84 WMP 3453—Size 2 1/2x2 in. Mailed Postpaid.....\$9.95

- 13** SHAPER ADAPTER ASSEMBLY. Use with (1), for shaping in hor. or vert. position. Ppd.
84 WMP 3459—For cutters with 5/16-in. bore.\$1.25
84 WMP 3460—For cutters with 1/2-in. bore.. 1.25
- 14** TAILSTOCK LIVE CENTER. Ball bearing action—60° tip. No. 2 Morse Taper shank.
84 WMP 3109—Mailed Postpaid.....\$3.25
- 15** CUP CENTER. Hardened, #2 Morse Tapershank.
84 WMP 2989—Mailed Postpaid......95c
- 16** TAILSTOCK CHUCK ARBOR. Holds Jacobs chuck in Shopsmith tailstock. #2 Morse Taper one end, 5/8-in. spindle with tapered flat other end.
84 WMP 3132—Mailed Postpaid.....\$1.25
- 17** MORTISING ATTACHMENT. Use on horizontal or vertical drill press. Machined cast-iron. Use with Jacobs chuck or router chuck (10), hold-down (18), bits (19), chisels (20).
84 WMP 3450—Mailed Postpaid.....\$3.95
- 18** MORTISING HOLD-DOWN. Cast-iron. Adjusts for varying thicknesses. Holds work securely.
84 WMP 3451—Mailed Postpaid.....\$1.95
- 19** MORTISING BITS. Tempered steel. Use with chisel (20). State 1/4, 3/8 or 1/2-in. size.
84 WMP 3135—Mailed Postpaid.....Each \$1.85
- 20** MORTISING CHISELS. Tempered steel. Use with bits (19). State 1/4, 3/8, or 1/2-in. size.
84 WMP 3134—Mailed Postpaid.....Each \$3.50
- 21** FLEXIBLE CUT-OFF WHEELS. Laminated linen impregnated with cutting abrasive. 8-in. diam. Fits 5/8-in. arbor. Postpaid.
84 WMP 3123—For cutting all metals.....\$2.95
84 WMP 3102—For cutting non-metallics... 2.95
- 22** LAMBSWOOL BONNET. Fits 6-in. face plate.
84 WMP 3128—Mailed Postpaid.....\$1.50

- 23** WIRE BRUSH WHEELS. Durable, solid metal reinforced centers. Use with 1/2-in. arbors.
84 WMP 3124—Fine. 6-in. diam. Postpaid....\$1.50
84 WMP 3125—Coarse. 6-in. diam. Postpaid... 1.25
- 24** CLOTH BUFFING WHEEL. Fits 1/2-in. arbor.
84 WMP 3127—6-in. diam. Postpaid......75c
- 25** 5-PC. AUGER BIT SET. Fits Shopsmith chuck. For power drilling hard or soft woods. Set includes 5 bits: 1/4, 3/8, 1/2, 5/8, 3/4 in. 1/4, 3/8 and 1/2 in. have 1/4 in. diam. shanks; 5/8 and 3/4 in. have 1/2 in. diam. shank.
84 WMP 3107—Postpaid..... Set of five \$6.60
- 26** FLEXIBLE SHAFT. Fits Shopsmith 5/8-in. spindle. 3/8-in. core, 50 in. long. Ball bearing construction. Use with arbor (7) and accessories such as: Drum Sander, Buffing Wheel, Wire Brush, etc.
84 WMP 3140—Mailed Postpaid.....\$15.95
- 27** FLEXIBLE SHAFT ADAPTER. Adapts any flexible shaft with 1/2-in. bore motor coupling to fit Shopsmith 5/8-in. spindle. Not required with (26).
84 WMP 2992—Mailed Postpaid......95c
- 28** TO **31** CARBIDE TIPPED TURNING CHISELS. Tip retains razor-sharp edge longer than alloy steel. Ideal for free hand turning of soft metals, plastics and wood. Postpaid.
(28) 84 WMP 2087—1/8-in. Round nose.....\$3.95
(29) 84 WMP 2088—1/4-in. Round nose..... 3.95
(30) 84 WMP 2085—1/8-in. Square nose..... 3.95
(31) 84 WMP 2086—1/4-in. Square nose..... 3.95
- CHISEL SET. Includes (28) to (31) above.
84 WMP 2089—Postpaid.....Set of four \$14.95
- 32** LATHE CHISELS. Alloy steel. Rock maple handles. Includes: 1-in. skew, 3/4-in. gouge, 1/2-in. round nose, 1/4-in. gouge, 1/2-in. parting tool.
84 WMP 3131—Postpaid..... Set of five \$7.95

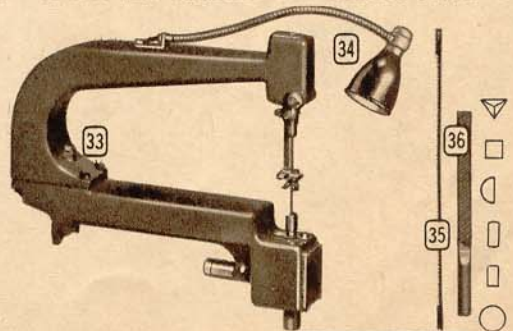
33 JIGSAW ATTACHMENT. Fits on headstock of Shopsmith in just a few seconds—utilizes Shopsmith motor and saw table. Driven from spindle. Built-in blower keeps cut line clear. Max. depth of cut 2 in. Throat depth 18 in.; cuts to center of 36-in. circle. Unlimited capacity as saber saw. Ball and Oilite bearings. Chucks take 5-in. plain end blades—lower chuck takes 1/4-in. shank files. Includes: table insert, jig saw blade (extra blades at right), mounting bolts. Order now for earliest delivery... will be available Jan. 1, 1953.
84WMP3452M—Postpaid. \$3.50 Dn., Cash \$34.95

35 JIGSAW BLADES. Plain ends, 5 in. long. Oil hardened, tempered, filed and set. Postpaid.

Cat. No.	Thick.	Width	Teeth Per In.	6 for
84 WMP 3110	.012 in.	.023 in.	20	30c
84 WMP 3111	.010 in.	.070 in.	14	30c
84 WMP 3112	.020 in.	.070 in.	7	35c
84 WMP 3113	.010 in.	.053 in.	18	35c
84 WMP 3114	.020 in.	.110 in.	20	30c
84 WMP 3115	.020 in.	.110 in.	15	30c
84 WMP 3116	.028 in.	.250 in.	20	45c
84 WMP 3117	.028 in.	.250 in.	7	45c

34 ADJUSTABLE LAMP ATTACHMENT. Attaches to jigsaw or Shopsmith headstock. Switch located at lamp base.
84 WMP 3463—Mailed Postpaid.....\$4.45

36 JIGSAW FILES. Includes 1 each: triangular, round, square, half-round, pillar, crochet (see profiles at right). Use in jig or saber saw position.
84 WMP 3118—Mailed Postpaid..... Set of six \$4.95





Most versatile of all power tools, Shopsmith combines five large-capacity wood-working tools in one precision-built, compact unit. See Pages 44 to 47 for complete description and illustrations.

SHOPSMITH..THE COMPLETE WORKSHOP

Montgomery Ward

CHICAGO • BALTIMORE • ALBANY

MONTGOMERY WARD ORDER BLANK

Complete satisfaction guaranteed or your money back

MONTGOMERY WARD CHICAGO 7, ILL.

Date _____ 19__

How to SEND MONEY: The safest and best ways to send money are: Postal Money Orders; Express Money Orders; Bank Money Orders or Bank Drafts; Cashier's Checks or your own Personal Check. For money order rates and other ways to send money, see our Catalog. If you live on a rural route, your mail carrier will buy a Postal Money Order for you on request.

PARCEL POST CHARGES should be included with order. See our Catalog for amount to send. Be sure to send enough to cover postage. If you send too much we will refund every penny not needed. FREIGHT OR EXPRESS CHARGES should not be sent with order except when there is no agent at your station. To estimate, see rates in our General Catalog.

1 Name and Address Please PRINT OR WRITE name and address plainly. All members of same household should order under one name.

3 Ship to Another Address If you want this Order shipped to an address or person different from that given at left, write directions here:

Name _____
 (First Name) (Middle Initial) (Last Name)

Name _____
 (First Name) (Middle Initial) (Last Name)

Street Address _____ Route _____ Box _____
 (Please fill in completely whether needed for delivery or not)

Street Address _____ Route _____ Box _____
 (Please fill in completely whether needed for delivery or not)

Post Office _____ State _____

Post Office _____ State _____

4 If you have moved since sending your last order, write old address here.

Street Address _____ Route _____ Box _____

Post Office _____ State _____

Please do not write in this space

2 How Shall We Ship:

<input type="checkbox"/> Parcel Post	<input type="checkbox"/> Railway Express	<input type="checkbox"/> Rail Freight	<input type="checkbox"/> Motor Truck	<input type="checkbox"/> Metropolitan Package Delivery (where available)
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(Show Preferred Routing, if desired, on Rail or Truck Freight Orders only)
 (Give your Freight Station here if different from your Post Office)

Do not send money for freight or express charges if there is an agent at your station.

BE SURE TO STATE COLOR-PATTERN-FINISH



DON'T FORGET SIZE See Measuring Instructions Given in the Catalog



CATALOG NUMBER OF ARTICLE	Quantity Wanted	NAME OF ARTICLE—If to be initialed, Print initials below article ordered	COLOR Pattern, Finish, etc.	SIZE Width, etc.	PRICE Each, Yard, Pair, etc.	TOTAL PRICE		SHIP. WTS.	
						Dollars	Cents	Lbs.	Oz.
			COLOR	SIZE					
			COLOR	SIZE					
			COLOR	SIZE					
			COLOR	SIZE					
			COLOR	SIZE					
			COLOR	SIZE					
			COLOR	SIZE					
			COLOR	SIZE					
			COLOR	SIZE					
			COLOR	SIZE					
			COLOR	SIZE					

Pounds/Ounces

PLEASE DO NOT WRITE HERE
 Total Received

Credit on other part

Credit on this part

Tax Notice

We are required by law to pay tax on sales for the following states:

If you live in Illinois, Iowa, Louisiana, Mississippi or Tennessee, add 2% (2 cents on the dollar) to the amount of your order for tax.

If you live in Alabama, Georgia, Michigan or Ohio, add 3% (3 cents on the dollar) to amount of your order for tax.

If this is a **CASH ORDER** Check Here and enclose remittance in full, including postage and tax.

If a **MONTHLY PAYMENT ORDER** Check Here and fill-in and sign the form on other side.

TOTAL FOR GOODS

Total Wt. in Lbs. **C**

AMOUNT FOR TAX (if any—Notice at left)

POSTAGE (We refund any not used)

AMOUNT I OWE WARDS (if any) from Previous Order

AMOUNT ENCLOSED

CAUTION: Always give the complete Catalog Number of each article (Example 86 C 174M), not just the little letter or number that identifies the illustration.

When ordering on Monthly Payments

Please write your order on opposite side of this sheet, listing all of the items wanted, then fill out and sign the proper form below.

If you do not have an account use APPLICATION FOR CREDIT form. If you already have an account use the "ADD-ON" form.

APPLICATION FOR CREDIT

To Open a New Monthly Payment Account

SIGN THIS PART AND ANSWER ALL QUESTIONS—ORDER MUST TOTAL \$20 OR MORE

Montgomery Ward & Co.: I am enclosing \$..... as a down payment on the Monthly Payment price of the goods listed on opposite side. Thirty days after I receive the goods I will pay \$..... at the place to which I send this order, and a similar amount each thirty days thereafter until the total Monthly Payment price is paid. Until the goods are fully paid for, title and right to possession shall remain in you.* I will not sell, remove, or encumber them with-

out your written consent and will assume responsibility for any loss or damage to them. Should I fail to make any payment when due, you may retake the goods at any time after such default* or you may hold the undersigned jointly and severally for the full unpaid balance, which shall then become due and payable. I submit the following statement to induce you to extend credit on this basis.

*Not applicable in Maryland or New York

Your Signature _____ WRITE—do not print _____ Signature of Wife _____ WRITE—do not print _____

Street Address _____ Route _____ Box _____

Post Office _____ County _____ State _____

Answer all questions below to establish credit—All information will be held confidential—Fill in completely to avoid delay!

IF MARRIED, ALL ANSWERS MUST APPLY TO HUSBAND (except where otherwise provided)

Your age? (Parent must sign for minor) _____ Are you married? _____ Number of dependents? _____ How long have you lived in your community? _____ Do you rent? or own home? How much is your rent or mortgage payment? _____

Are you now steadily employed? _____ How long with your present employer, firm or business? _____ (Yrs.) (Mo.) What kind of work? _____ What are your present WEEKLY earnings? \$ _____ Your former address _____

Employer's name _____ (Please give company name) _____ Employer's address _____ If with present employer less than one year, how long with former employer? _____

Weekly Average Other Income \$ _____ From what source? _____ Wife's Employer _____ Wife's Weekly Earnings \$ _____

Have you had a previous Acct. with us? _____ Where? Location of Wards Branch _____ When paid up? _____ Name of your Bank _____ Address _____

Please furnish name and address of nearest relative, one friend and one or two stores with whom you have had credit dealings.

Relative _____ Address _____ Relationship _____

Friend _____ Address _____

Store _____ Address _____ Business _____

Store _____ Address _____ Business _____

IF YOU ARE A FARMER PLEASE FILL IN THESE ANSWERS—IN ADDITION TO ABOVE

Yearly income from main crop? _____ What is AVERAGE weekly cash income from eggs, milk, produce, etc.? _____ Do you own your farm? _____ Do you rent for cash? _____

Do you rent on shares? _____ What is your main crop? _____ In what town do you trade most? _____

For "Add-on" Orders to Your Present Account

SIGN THIS PART ONLY—ADD-ON ORDERS MUST TOTAL \$10 OR MORE

Montgomery Ward & Co.: Please ship goods listed on opposite side and add to the account bearing the account number shown below. I agree that this purchase may be combined with all Monthly Pay-

ment contracts bearing this account number upon which there is an unpaid balance. The provisions given in the original contract and the monthly terms given in your catalog shall apply to this purchase.

Your Signature Here (WRITE—Do Not Print) _____

Street Address _____ Route _____ Box _____

Post Office _____ Zone _____ State _____

ACCOUNT NUMBER _____ Where? Location of Wards Branch _____