

WORKACE

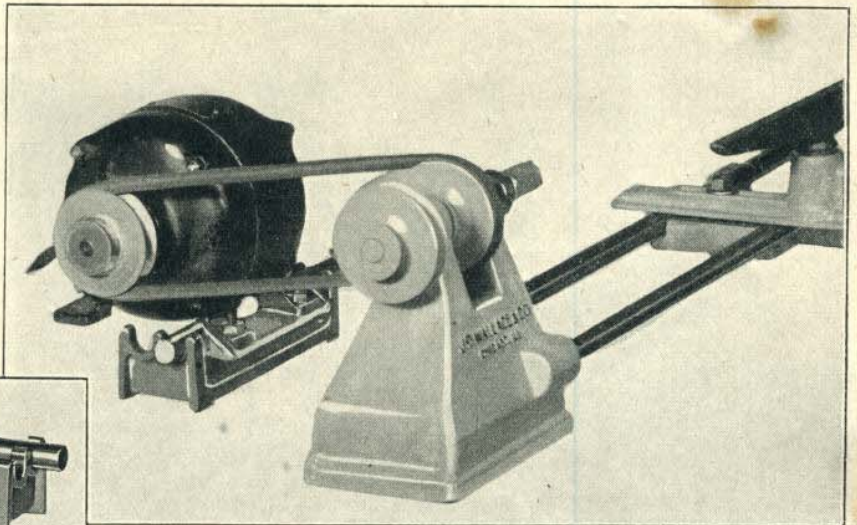
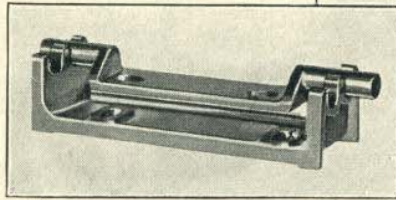
**WOODWORKING MACHINES
BUILT BY WALLACE**



WALLACE CRADLE DRIVE

Patent Applied For

When you step up to your Workace machine equipped with the Wallace Cradle Drive you can expect that machine to perform—the Wallace Cradle Drive will deliver the maximum power available to your blade, it will bear down and perform when you demand that extra effort—and it will not require you to lose valuable time constantly readjusting your motor mountings nor to tighten your belts to a point where you waste power and ruin your bearings.

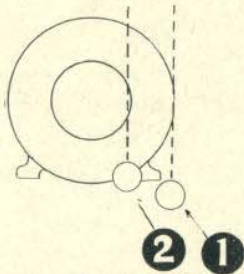


Highest driving efficiency - Long belt life - No line shafts Ends motor trouble - High speed with flat belts - Simplifies shop layout

LAST season Wallace brought out a new drive. It made obsolete fixed drives, provided belt tension constantly, it required only one motor to operate a number of machines, each independently, it eliminated line shafting and freed each machine so that each could be used wherever it would be most convenient; anything so revolutionary and beneficial is copied and the Wallace Drive was but as Kipling says:

"They copied all they could follow, but could not follow our minds. So we left them sweating and stealing a year and a half behind."

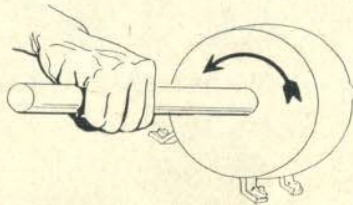
The Improved Wallace Cradle Drive is a special method of motor mounting. The motor is mounted on a Wallace Cradle Bar by the two front feet. This bar is then set in a bracket as illustrated. The belt is slipped over the motor pulley and the machine pulley so that the motor literally "floats," keeping the belt tight.



The Latest Development in this Wallace Drive, locating the pivot point around which the motor swings at a point which gives a proper balance between the weight of the motor and its electrical reaction (at "2" in figure at left). This point has been determined by Wallace engineers to give the best results when operating Workace machines. The off set pivot on the latest Wallace Motor Cradle brings the pivot point closer to the center of the motor thus obtaining less initial weight of motor and greater electrical effort than possible when pivot point is at greater distance from center as at point "1" as in the previous drive.

The Wallace Cradle Drive is the most efficient drive because the belt tension is at an absolute minimum while machines are idle, the offset cradle distributes the weight. As soon as the motor is started and a load is applied to the machine the BELT TENSION INCREASES IN DIRECT PROPORTION to the work being done. The distributed weight of motor provides only the initial belt tension but the electrical reaction of the motor acts downward, applying more weight, as required, causing belt to hug pulleys and overcome natural tendency of a running belt to throw off pulleys.

The electrical reaction can be explained briefly. If you were to hold an armature shaft rigidly the motor field and housing would revolve and reverse rotation. This is what happens when you take a heavy cut and tend to stall the armature—the field attempts to turn and in doing



so in the Wallace Cradle Drive bears down additional weight, increasing the tension on the belt and applying more power.

All Workace machines are designed so that the electrical reaction is applied to supply that additional power, therefore the motor can be transferred from one machine to another. If rotation were in the wrong direction that electrical force would subtract from belt tension.

Flat belts can be run at higher speeds over small pulleys because they are thinner than V-belts—they do not throw off the pulley; they are more flexible. They do not create so much heat due to the flexing of the fabric. Only in the Wallace Cradle Motor Drive can flat belts be kept tight enough on the pulleys to prevent slippage and overheating. Flat belts cannot be used with a fixed motor mounting successfully for you are compelled to either set the belt so tight you waste power, put a destructive strain on the motor and wear out bearings or set it loose and get no traction. The combination of flat belts and the Wallace Cradle Drive permits transmission of full power at high speeds. The small initial belt tension and an efficient transmission of power is "easy" on your motor—it will serve you longer and more efficiently. Motor starts with much less fluctuation on your lights and your neighbor's lights. With the Wallace Cradle Drive the motor comes up to speed much quicker, prevents overheating which is destructive to the starting windings.

Wallace Cradle Drive eliminates line shafting—with its maze of belts, pulleys and countershafts—expense and power loss. Each Workace machine can be located any place you wish or taken to a job wherever it may be. With the Wallace Cradle Drive you need only one motor unit—setting the unit (motor and cradle) into the brackets behind the machine you wish to operate, slip on the belt and run—no bolts or fastenings to unscrew—the change is instantaneous and the results MORE POWER — LOWER COST — LONGER LIFE to the machines and motor—use the Wallace Cradle Drive.

Your primary interest in machines is to do work—that requires POWER. That's a practical problem. Wallace engineers provide you with plenty of Power in Workace machines using the new Wallace Cradle Drive.



WORKACE WOODWORKING MACHINES

... based upon experience

FORTUNATELY, we are in the position of justifying the almost universal confidence of the *practical men* of the woodworking industry. Twenty years ago we originated the first portable woodworking machinery. It was no easy task to convince these practical men—friendships and bold advertising claims had no effect on them—they demanded that a machine produce and at a minimum final cost.

The Wallace line of machines made good. They met exacting demands of the cabinet shop, the gruelling test in production and the severe usage in vocational and manual training shops.

The evidence we have is *convincing*. When we brought out the popular priced line—the WORKACE—some five years ago we found that the vast influx of business we have enjoyed since is *due largely to the recommendation of those practical men*—“Buy Wallace-built machines and you will have practical tools built on experience.”

We guard this confidence jealously. For that reason you will find the machines offered in this line — *PRACTICAL* tools — *ACCURATE* and *STURDY*. We maintain simplicity in design—we offer you machines that will PERFORM. We might add frills which might swell our sales to the less experienced; but frills only mislead, and suggestions that machines be used for operations for which a machine of its type was never intended only disappoint and is often unsafe.

For instance, for commercial shaping we recommend the Workace Shaper with its heavy spindle and the necessary speed of 10,000 r.p.m.; dials and scales are included in Workace machines *only where you can rely on them*—experience has taught “old hands” to use a protractor and be sure of an angle—or a scale to be sure of the depth of cut, etc.

We prefer to eliminate the “gadgets” of questionable value *to save you the added cost*. We prefer to be *practical* in designing and in recommending so that we may continue to enjoy the endorsement of Wallace-built machines *by those who know from experience*. Your WORKACE machines are built to perform, you will find them always ready to serve you; to produce the maximum work for you in the time available for you. In WORKACE machines you are assured of the greatest values our vast manufacturing facilities make possible.

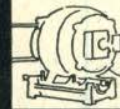
“You live but once—give yourself the tools to enjoy these precious hours.”

J. D. WALLACE & CO.

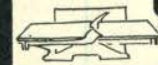
Offices in All Principal Cities

134-138 S. CALIFORNIA AVE.,

CHICAGO



WALLACE
CRADLE DRIVE
PAGE 2



WORKACE
6" JOINTER
PAGE 4



WORKACE
BAND SAW
PAGE 5



WORKACE
RADIAL DRILLS
PAGE 6-7



WORKACE
VARIETY SAW
PAGE 8-9



WORKACE
SHAPER
PAGE 10-11



WORKACE
RADIAL SAW
PAGE 12-13



WORKACE
SCROLL-BAND SAW
PAGE 14-15



WORKACE
4" PLANERS
PAGE 16



WORKACE
JIG SAW
PAGE 17



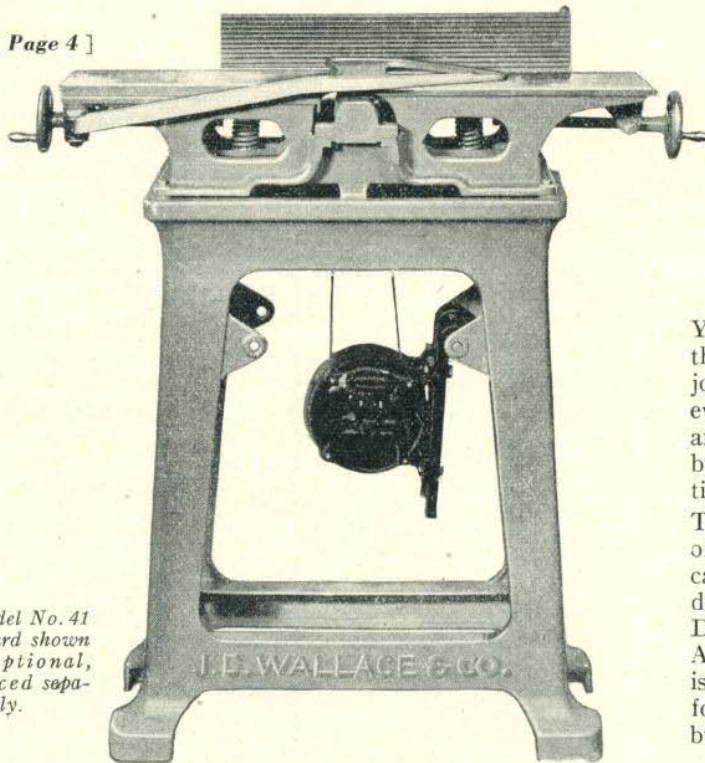
WORKACE
LATHE
PAGE 18-19



WORKACE
NO. 32 SAW
PAGE 20



WORKACE
ACCESSORIES
PAGE 21-22



Model No. 41 Guard shown is optional, priced separately.

WORKACE 6" JOINTER

Model No. 41

You have needed the capacity of a 6" jointer—every shop that wants to get results needs a high speed, precision 6" jointer. In the new Workace 6" Jointer you will find what every practical man wants—accuracy, rigidity, simplicity and *power*—a tool that will *perform*. It is a WALLACE-built tool—that means *performance* to you and every practical man who demands results.

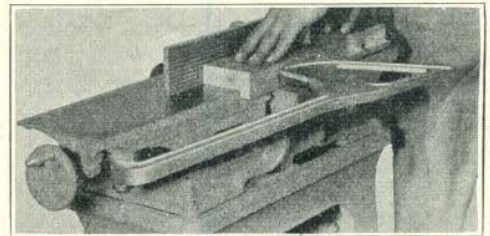
This new model No. 41 Workace Jointer has a capacity of 6" x 1/2" and the stamina to take any cut within that capacity easily. It is provided with a perfected drive that delivers *power*—plenty of it. The new Wallace Cradle Drive maintains proper belt tension to deliver full power. After all "beautiful" statements have been made, there is one thing you want—RESULTS with the minimum effort, time and expense. You can depend on a Wallace built tool for that.

CONSTRUCTION FEATURES

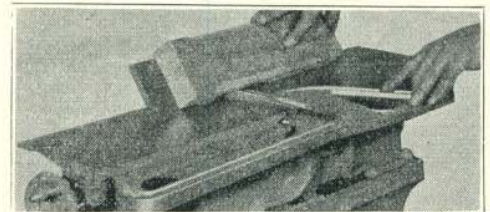
Capacity is the outstanding feature, cutting full 6" wide and up to 1/2" deep. The small throat opening permits safe and practical jointing of small pieces. *Roller Bearings* of new design. Rollers are 1" long, ground and hardened, operating in ground and hardened races. The load is distributed over the full inch, therefore, these bearings are capable of carrying a much greater load and speed than ordinary bearings. The *Cutterhead* is the circular safety type. The knife plate and cutterhead are made of one solid piece of steel. It runs at a speed of 4100 r.p.m. and is accurately ground and dynamically balanced for smooth, quiet operation. The 3 *Knives* are made of high speed steel—they hold their keen cutting edge for long periods. An occasional touch up with Knife Jointer No. 2799 (page 21) and your knives will remain in condition. The *Tables* are strong, tough, durable and ribbed to prevent warping. Each is accurately ground after assembled. This assures a surface that stays true. The tables are each mounted in four ways and held in position by heavy springs. Rear table is offset for rabbetting. Large hand wheels and actuating screws regulate the height of tables—quickly and positively, no locking screws necessary. The *Fence*, everything a practical fence should be, is held rigidly to the front table by two clamp screws, hex-head, placed close to the cutter head—the center of action. This mounting does not permit fence to "creep" or give way—it promotes safety. Fence accurately ground to close limits; 18" long, 3" high. Can be tilted to 45° for bevel or chamfer cut, or brought forward for rabbetting. Locks in any angular position securely by hand lever. Stop locates fence at right angles to tables.

The No. 41 Jointer is equipped with a 2" flat crowned pulley for 1" belt. By using the efficient Wallace Cradle Drive you need only a 1/4 h.p. motor. The motor pulley should be 5" diameter, but is not furnished with the machine.

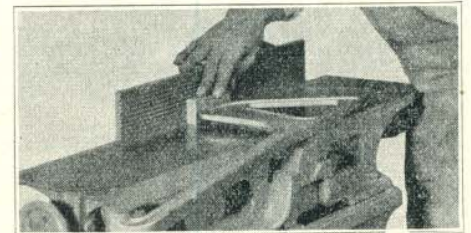
The *Flap Guard* No. 3455 (priced separately) covers the knives at all times and is practical for surfacing and edging. Guard opens as stock is fed into machine, spring snaps it back instant cut is finished. The *Jointer Stand* No. 4138, is sturdy cast iron; equipped with a *shaving discharge* and Cradle Drive mounting, priced separately.



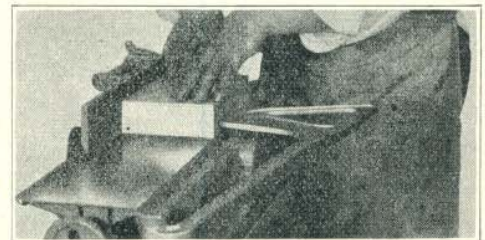
Rabbeting



Chamfer Cutting



Jointing Small Stock Accurately



Jointing Full 6"

PRACTICAL BILL SAYS

A 6" jointer is the practical size and # 41 is the practical tool. Its speed and smoothness produces a beautiful finish - it packs plenty of Power and with that fence, guard, and small throat opening it's safe.



SPECIFICATIONS

Length of knives	6"
Number of knives (No. 403)	3
Cutterhead Speed, R.P.M.	4100
Speed 1725 RPM Motor suggested, H.P.	1/4
Depth of cut, maximum	1/2"
Length of each table	15"
Length of machine overall	30"
Dimensions of fence	18"x3"
Weight Jointer, net 77 lbs.; dom ship wt. 118 lbs.; export, 150 lbs. (4 cu. ft.)	
Code word	WOSIX
Weight Stand No. 4138; net 83 lbs.; dom ship wt. 140 lbs.; export, 180 lbs. (13 cu. ft.)	
Code word	WOSTA

Equipment. No. 41 Workace Jointer complete as described, 3 knives inserted, pulley No. 4116 on cutterhead and wrench.

We recommend ordering Stand No. 4138; Flap Guard No. 3455; Flat Belt No. 3991; 1/4 hp Motor; Motor Pulley No. 4107; 3 (1 set) knives No. 403 and Knife Jointer No. 2799 (see pages 21 and 22).

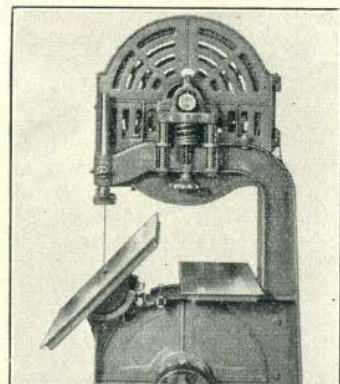
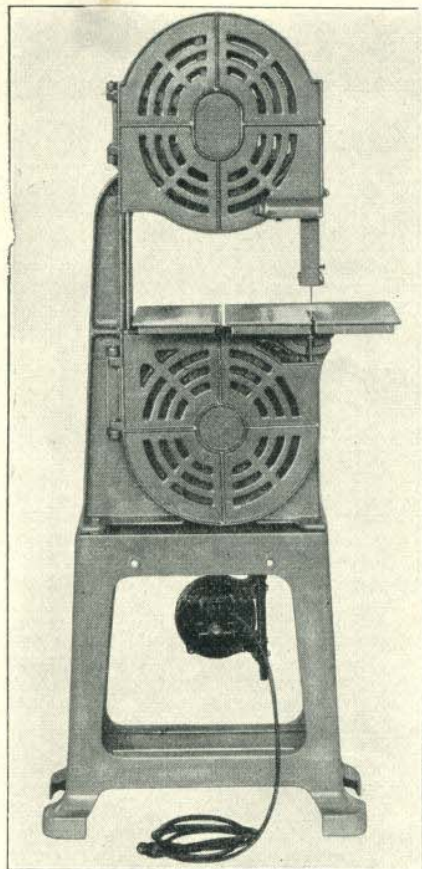
YOU LIVE ONLY ONCE

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USE PRACTICAL TOOLS

WORKACE 14" BAND SAW

Wood — Metal — Brake Band
Model No. 40



View showing tilting table. Note the spring to take up shock, also hand-wheel for adjusting blade tension.

Every practical band sawer knows that certain fundamentals must be strictly adhered to, otherwise nothing but disappointment and expense result. After building thousands of high speed production band saws—machines for which the most severe service and exacting results were demanded and obtained—we take a lot of satisfaction in producing the new model No. 40. We have built these years of experience into model 40. You will find in it all you expect in service, satisfaction and economy. It is another PRACTICAL WORKACE machine devoid of those frills designed to take one's mind, during the buying period, off of the one thing we guarantee, "satisfaction and economy over years of service." There are no cross cut or rip fences for instance, because a blade used on this type of machine tends to follow the grain of the wood, you cannot use such fences. All Wallace-built machines are practical machines.



Light illuminates working area and does not shine in operators eyes.

CONSTRUCTION FEATURES

Capacity is 14" between the gooseneck and blade, 6" under the guide. *Roller Bearings* are especially designed—rollers and races are 1" long, the load is distributed over the entire length—result, a greater degree of accuracy long after short rollers or ordinary ball bearings have been replaced. Rollers and races are ground and hardened. Mounting for bearing assembly accurately machined and aligned.

A 1/4 h. p. motor will deliver power at the blade unequalled heretofore with even a 1/2 h. p. motor. The Motor is mounted in the famous *Wallace Cradle Drive*—flat belt used to avoid friction. *Wheels* are 14" diameter, aluminum, aged before machining to prevent warping. Each wheel balanced to eliminate vibration and reduce blade breakage. Wheels are rubber tired—ground, then crowned to center the blade. Upper wheels and bearings mounted on two steel rods to assure perfect alignment. *Adjustment* for blade tension by convenient hand wheel. *Heavy steel spring* takes up shocks. Upper wheel tilts to properly track blade.

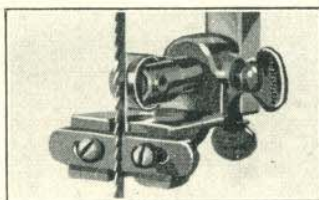
Guide is a very important factor. Friction caused by blade rubbing over a surface causes heat—heat crystalizes blades and causes excessive breakage. Friction avoided in Workace guide. Blade runs on periphery, not the side of ball bearing—no rubbing. Steel bit prevents weaving.

Guards—Both wheels completely enclosed. Upper and lower guards, door type. Blade runs in deep grooves along goose-neck. Adjustable metal guard immediately above guide—blade exposed only at cutting point. Accurately machined cast iron *Table*, heavily ribbed 13" square. Tilts 45°. Handy auxiliary table at left. In the upper guard immediately above the cutting area a 30 watt lamp is provided. *This lights up the working area* enabling you to clearly see your line. It promotes accuracy, speed and safety. The beautiful lines of model No. 40 are brought down to an attractive, light and sturdy cast iron stand. Workace Cradle Drive mounted in the stand.

Assure yourself of satisfaction over years of service with the Workace model No. 40 Band Saw. You know it is built on experience.

PRACTICAL BILL SAYS

Experience is the best . . . measuring stick and this WALLACE organization has had plenty of experience in band saws and all Portable Woodworking Machinery. . .



Specifications

Diameter of wheels	14"
Length of blade	7' 7"
Max. capacity under guide	6"
Correct speed cutting wood, R.P.M.	900
Dia. pulley on machine, cutting wood	5"
Dia. pulley on machine, cutting brake lining or metal	8"
Size of table	13"x13"
Size of auxiliary table	6 1/2"x12"
Height overall	62"
Size of motor recommended, H. P.	1/4
Weight, net 185 lbs.; domestic ship. 260 lbs.; Export 315 lbs. (11 cu. ft.)	
CODE WORD	WOFOS

No. 3974

Ball bearing backs up blade. Blade runs on periphery to eliminate friction. Side bits adjusted independently. Accurate setting of guide easily accomplished.

EQUIPMENT—Complete as described, 5" flat pulley, guards, guide; 30 watt lamp, cord and plug; auxiliary table; roller bearings; stand; motor cradle drive and 1 blade. We recommend pulley No. 3996, 3977 or 3998 for motor and sufficient number of blades of sizes required. (See price list.) Workace blades are made of steel of proper formula for the machine and especially toothed to eliminate cracking.



Blade is fully guarded, exposed only at working point.

WORKACE MACHINES ARE PRACTICAL TOOLS

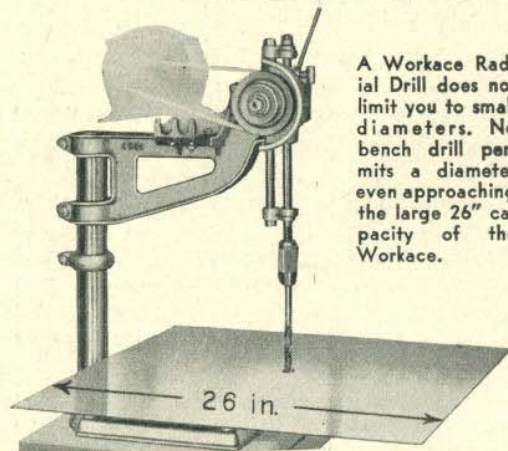
WORKACE RADIAL DRILLS

- Greater Capacity
- More Power
- More Versatile Utility
- Rigid Construction
- Use same Motor on Other Machines

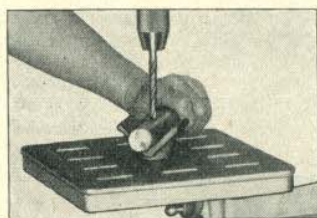


Radial Feature

Permits swinging the head away from table for drilling stock supported on floor, also swinging head to drill in various locations without moving the work.



A Workace Radial Drill does not limit you to small diameters. No bench drill permits a diameter even approaching the large 26" capacity of the Workace.



Drilling—
Using V-Block
Jig
No. 4519

By means of the efficient Wallace Cradle Drive (Patent Pending) your drill press is operated by the same motor with which you run other Workace machines. You set it in the cradle brackets as illustrated. This method of drive eliminates all of the disadvantages of the fixed drive and gives you more power when you need it. This drive is completely described on page 2. You eliminate setting your motors in an unnatural position, which increases friction, and you avoid twisting belts over idlers.

The need for greater clearance between the drill and the back column has been a source of annoyance and regret to many owners of drill presses. That is why we have provided a capacity far greater than has ever been provided before, making it possible to drill in the center of a 26" diameter. The radial feature on the Workace Radial Drill permits swinging the head into various positions. The machine is designed so this is very easily done as a stop collar is provided on the rear column to support the radial arm as you swing this arm to position as, for example, swinging the radial arm to position as indicated in illustration below, so that you can work on long or wide stock supported from the floor.

Besides the standard spindle there are two special spindles available. The standard spindle is extra large in diameter and, like the more expensive drills this spindle operates on a high grade bronze bearing of large size with ball thrust bearings. It is fitted with a threaded end for screw chucks. The upper end of the rack is fitted with depth stop and a special screw to lock it in any fixed position for routing, shaping, grinding, etc. The depth graduations are indicated in quarter inches on the rack and are easily read from the front of the machine. Special Spindle No. 4543 is equipped with a Special Taper Shank, provided at a slightly extra cost. Special Spindle No. 4582 is fitted with a socket to fit the No. 2 Morse Taper Shank drills, key chucks, and various types of bits. This spindle is especially recommended where absolute accuracy is required and is available at an extra charge as listed in our price list.

Two special pulleys are slipped on keys and locked on the drive shaft. When belted to two step motor pulley four spindle speeds, 700, 1050, 1350 and 1950 r. p. m. are available. These four speeds conform with the standard speeds set by all engineering authorities for drilling in metal with carbon drills up to 1/2" diameter. Three special pulleys may be purchased giving four additional speeds, 850, 1650, 2700 and 3350 R. P. M. These speeds conform to the standard set for high speed drills up to 1/2" diameter. Other pulleys may be secured to give any speeds necessary to satisfy your particular requirements but we recommend that no drill press be used for work requiring such speeds as are hazardous to yourself and the construction of the machine.

A Guard is provided for the pulleys mounted on the machine, as illustrated. The column of all models is a solid steel bar of 2 1/8" in diameter, the heaviest and stiffest support for a drill of this type. A solid bar is more rigid than a tube of larger diameter.

The Table is 10" square and tilts to 45° both ways with a pin to lock it square with the drill spindle. The table support is locked only 1" from the drilling point—this to avoid springing which is a common complaint when tables are supported at the edge.

Specifications

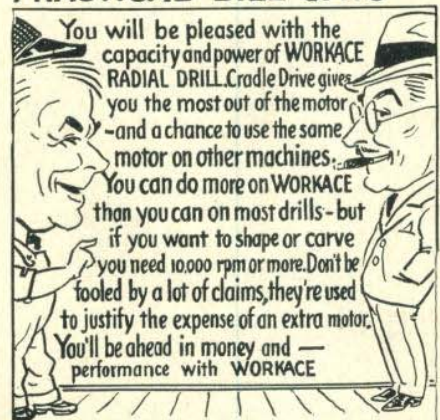
	Bench Model	Wall Model	Floor Model
Overall height	29"	61"	65"
Table travel	—	33"	36"
Spindle travel	4 1/4"	4 1/4"	4 1/4"
Maximum distance table to spindle.....	10 1/2"	35"	39"
Distance center of spindle to column.....	13"	13"	13"
Maximum chuck capacity	1 1/8"	1 1/2"	1 3/8"
Table size	10x10"	10x10"	10x10"
Column diameter	2 1/8"	2 1/8"	2 1/8"
Spindle speeds with 2 standard pulleys (2).....	(700, 1050) (1350, 1950)	Same	Same
Spindle speeds with 3 extra pulleys (3).....	(850, 1650) (2700, 3350)	Same	Same
Bench or floor space.....	12x22"	12x25"	12x22"
Net weight	67 lbs.	115 lbs.	119 lbs.
Shipping weight	84 lbs.	155 lbs.	159 lbs.
Code	BRADI	WRADI	FRADI

RECOMMENDED—We recommend additional equipment as follows: 1/4 h.p. motor and cradle bar No. 3163 (if you do not have it), V-Belt No. 4562 and drills, bits, etc. (see page 22), mortising attachment and various supplies shown on page 7.

Mortising Attachments

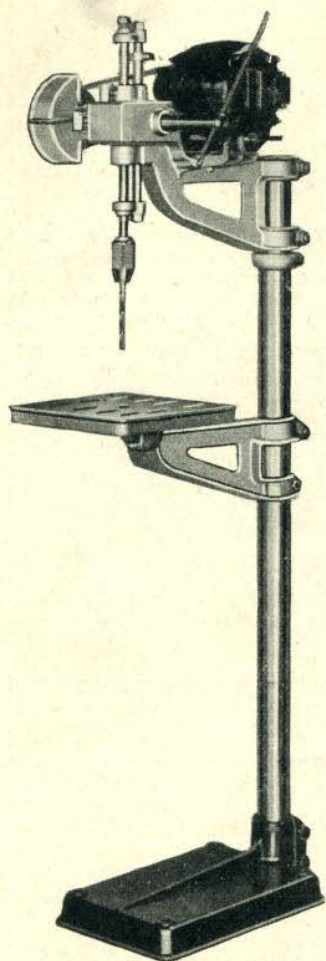
Maximum chisel size.....	1 1/2"
Maximum distance chisel center to column.....	13"
Maximum distance chisel to fence.....	3 1/2"
Maximum distance between table and bottom 2 3/4 chisel.....	4"
Size of fence No. 4581.....	2 1/2 x 10 3/4"
Weight	5 1/2 lbs.
Code	RAMOR

PRACTICAL BILL SAYS ~

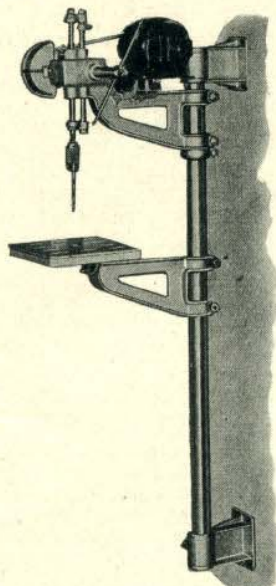


YOU LIVE ONLY ONCE -- USE PRACTICAL TOOLS

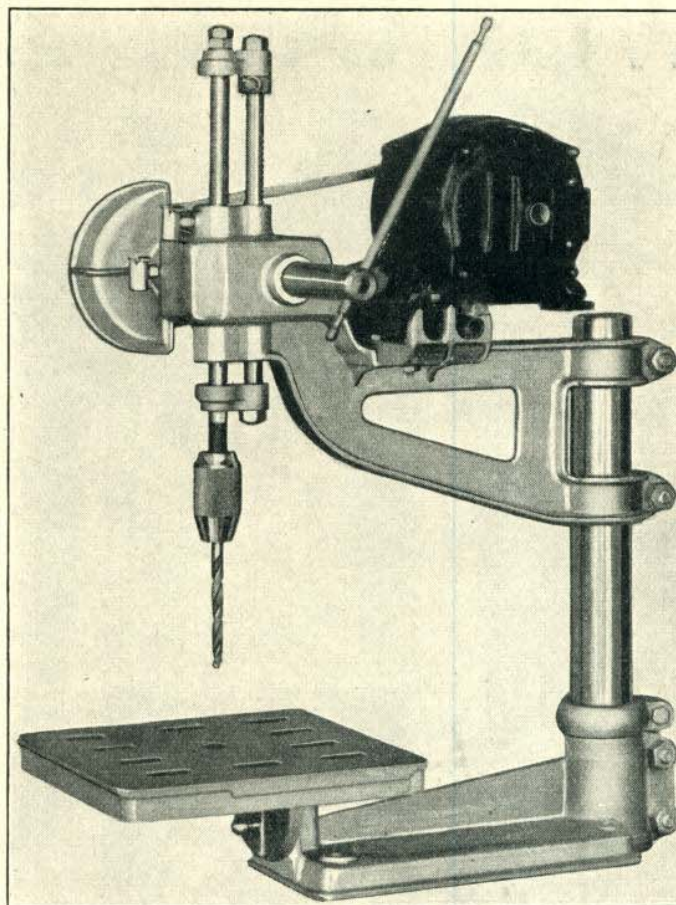
The Workace Radial Drill has plenty of power and much greater capacity and versatility than the average drill. We have designed this machine so that the net cost including your power, is the lowest for which a machine of this type can be purchased. Like other Workace machines it has the advantage of our many years experience—it is practical, powerful, dependable.



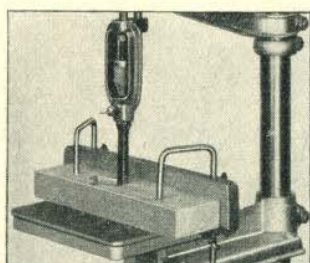
Floor Model No. 33F



Wall Model No. 33W



Bench Model No. 33B

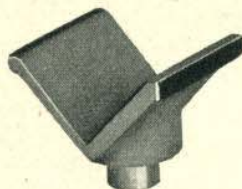


Mortising Attachment

We have designed a special mortising attachment which includes a yoke and a fence. This yoke is designed so that you can be ready for mortising in a very few minutes. The radial feature makes it possible for you to mortise on the table and also swing the head and mortise. For instance, in the side of a door which may be supported from the floor.

We take a great deal of pleasure in submitting these three models of Workace Radial Drills to you and assure you they have been designed after a very careful survey of the requirements in the commercial as well as the home shop.

Accessories for RADIAL DRILL



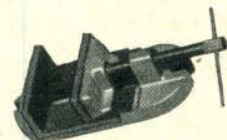
No. 4519. V-Block Jig for holding round stock and small pieces. Has machined centering pin, fits in hole center of table. Ship. wt. 2 lbs.



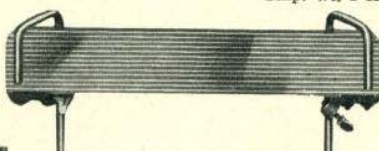
No. 4520. Bell Center Jig for holding irregular shapes. Machined centering pin fits hole in table. Ship. wt. 2 lbs.



No. 4561. 1/2" Drill Chuck, screw type, self centering. Ship. wt. 1 lb.



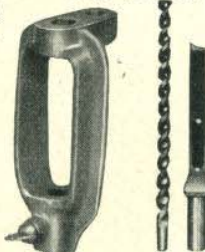
4479. Machine Vise—For holding work. Fasten to table in any position. Opening 2 3/4". Width jaw 3 1/2". Height 1 1/4". Shipping weight 5 lbs.



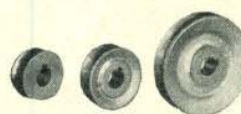
No. 4581. Mortising Fence provided with 2 clamps for holding stock. Has T-square for lining up to table. Ship. weight 8 lbs.



No. 4543. Special Spindle tapered to take a No. 2 Jacobs or similar 1/2" key chuck.



No. 4580. Mortising Attachment handles chisels up to 1/2" square. Shipping weight 3 lbs. Chisels and bits priced on page 22.



Pulleys 4510, 4511, 4513 to provide additional speeds explained under spindle speeds. Sizes and prices see page 22.

4582. Morse Taper Spindle and Drift Pin to take No. 2 Taper Drill or Chuck. Ship. wt. 3 lbs.



No. 4584. Precision Key, 1/2" chuck with No. 2 Taper shank. Order 4582 to use this chuck. Ship. wt. 4 lbs.



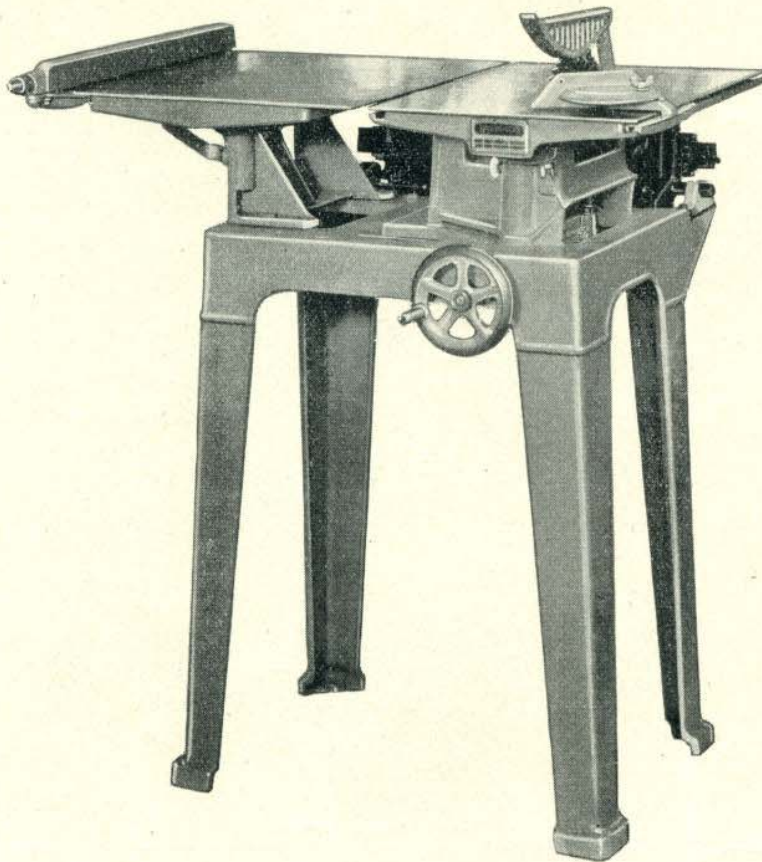
No. 4583. Adaptor includes nut and washers. Shown here is No. 4638 Cup Grinding Wheel.

WORKACE MACHINES ARE PRACTICAL MACHINES

WORKACE VARIETY SAW

Model No. 42-E

Simplicity and Power



Workace Variety Saw Model 42-E

Model 42-E Workace Variety Saw is new—different. It is simplicity itself. All the “gadgets” that have been accumulating on circular saws to lure the inexperienced have been avoided. We have produced a machine in model 42-E that we are proud to submit to you for these reasons.

First—You can set it correctly in a second for any cut height or angle. A lever for instant adjustment and a large hand wheel for a precision setting—one turn of a wing nut and it is locked. Table tilts to any angle up to 45°. A stop sets it at right angle with the blade. The rip fence resembles a “T” square—slide it to the correct distance, turn the simple knurled nut and the fence is locked front and rear—no creeping and it is self aligning. So much for setting up—simple, accurate and secure (safe).

Second—The auxiliary table for wide cutting is not patched on. It is substantially built to support any stock you want to cut, not only panels. It is adjustable for height.

Third—You can cut any width from 0 to 24” and full 2 3/8” thick.

Fourth—Power, and this will interest you or any practical man, for after all the flowery words you want to do one thing with a saw and that is *Cut Wood*.

The Workace No. 42-E Variety Saw has Power. The perfected Wallace Cradle Drive makes every ounce of energy available; the thinner, flat belt doesn't throw itself off the pulley and doesn't consume power flexing it over pulley; the newest type of roller bearings; these are the reasons why No. 42-E has Power, plenty of it.

If you want a variety saw that will Perform, that has no “gadgets” to confound or confuse—a complete, yet simple tool that will *Cut Wood*, then you owe it to yourself to work on a WORKACE No. 42-E VARIETY SAW.

SPECIFICATIONS

	42-E	42	42-P
Depth of cut, maximum.....	23 3/4"	23 3/4"	23 3/4"
Width between rip fence and blade, max.	24"	6 1/2"	6 1/2"
Width between cross cut fence and blade, max.....	6 1/2"	6 1/2"	6 1/2"
Width of cut with dado or cope head..	1"	1"	1"
Diameter of blade	8"	8"	8"
Diameter of spindle.....	5/8"	5/8"	5/8"
Size of table.....		14x18"	14x18"
Size of table and auxiliary table.....	33x18"		
Motor recommended, 1/2 h.p. or Twin 1/4 h.p.			
For specifications of 4" Planer, see Model No. 4, page No 16.			
Net weight, lbs.....	128	40	140
Domestic ship. wt., lbs.....	183	55	172
Export ship. wt., lbs.....	220	80	260
Cubic measure, cu. foot.....	8	3	8
Code	W0AUX W0SAW W0PUN		

Equipment: Model 42-E includes model No. 42 Saw, No. 3792 blade; stand No. 3194 with hand wheel raising and lowering mechanism No. 3193; auxiliary table No. 3191; cradle brackets No. 3168; cradle No. 3165; saw pulley No. 3179; cross cut and rip fences, lower guard No. 2912.

Equipment No. 42 includes lower guard No. 2912; No. 3792 blade and raising and lowering lever.

Equipment No. 42-P same as 42-E except Model No. 4 Planer (see page 16) replace auxiliary table.

We recommend Saw Guard No. 2962, Planer Guard No. 2980 for Model 42-P; twin 1/4 h.p. motors with coupling; motor pulley No. 3187 and belt No. 3188, or 1/2 h.p. motor and pulley No. 4108 or 4109; Flat Belts No. 3188 (page 22) and supply of blades (page 21). For Model 42 only, also order Cradle Bracket No. 3164, and Motor Cradle No. 3163.



WORKACE PLANER SAW

Model No. 42-P

Model 42-P (illustrated) is the same construction as Model 42-E except that the auxiliary table has been eliminated and in its place we have mounted model No. 4 Workace 4" Planer giving you a circular saw table and planer or jointer on this one stand. These machines operate from the same motor unit. In operating the saw the belt is thrown on to the saw spindle pulley and when operating the planer it is switched to the planer. The motor unit is shifted slightly in the bracket.

Model No. 42 Saw

The Model No. 42 Saw, as illustrated, is completely described under the description of Model 42-E except that it is the saw table only. The table is raised and lowered by means of a lever.

YOU LIVE ONLY ONCE

--

USE PRACTICAL TOOLS

BUILT FOR SERVICE

Model No. 42-E consists of the Model No. 42 Saw mounted on a substantially designed stand with an auxiliary table. This gives you a capacity for cutting 24" wide. Model No. 42-E is simplicity itself, a beautifully designed unit. It is a precision machine on which all of the sawing operations you have to perform, including all angles of cuts, can be handled in the minimum of time for setting up and with plenty of power and strength to handle rapidly any work within its capacity.

A new type of *Roller Bearing* is used. The rollers in this bearing are 1" long. The mountings are accurately machined; the bearings in perfect alignment. The load is distributed over the entire length of each of these 1" bearings rather than on short roller or one point as with ball bearings. Over one billion of these rollers will be used for 26 bearings in the new '34 model automobiles. The *Saw Spindle* in Model No. 42 is ground and hardened to close limits. This spindle is heavier than usual, $\frac{5}{8}$ " in diameter—that assures your safety when using heavy dado heads and cope heads. *It will maintain extreme accuracy.*

The inside saw collar is screwed on the hardened spindle and after locating its surface is faced. Because of the unusual precaution blades or heads will run absolutely true, assuring you of a precision, beautiful finish cut, heretofore unknown in a popular priced saw table.

Steel Table, Tilts—adjustable for depth

The table is a heavy gauge steel plate—the lightest and strongest possible to make. This table will not warp to cause inaccurate cutting. The steel table is thinner than is necessary with cast iron. This, together with the new small diameter roller bearings makes it possible to cut a full $2\frac{3}{8}$ " cut with only an 8" blade. Blades and dado heads are priced in proportion to their diameters. This construction, therefore, saves you money in blades and heads. The table tilts 45°. An indicator indicates the angle. Adjustment provided to keep the table in perfect alignment. This table is raised and lowered by means of a lever or in Model No. 42-E and 42-P by a large hand wheel located in the stand. The lever for quick setting; the hand wheel for accurate setting. Each turn of the hand wheel raises table $\frac{1}{8}$ ".

Twin Motor Cradle Drive Saves Power

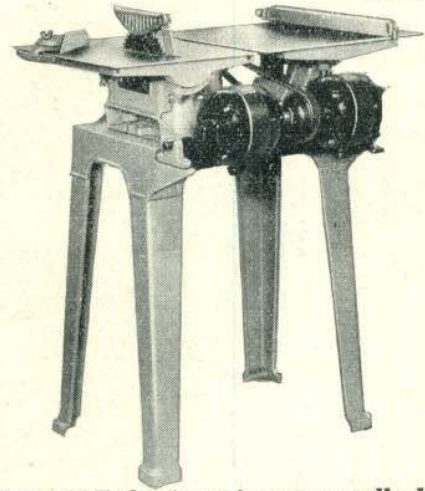
The heart of a machine is in the bearings and the spindle. The satisfaction that you get from a machine is the means for driving that spindle provided by the manufacturer. We have used the Wallace Cradle Drive that delivers the maximum power available to the spindle always. The motor is mounted in a motor cradle set in brackets. The balance of this pivot mounting is such that you have the necessary belt tension. Then as you require additional power the electrical reaction bears down on the motor so that you are assured of the full capacity as explained on page 2. You can use either a $\frac{1}{4}$ h.p. or two $\frac{1}{4}$ h.p. motors or one $\frac{1}{2}$ h.p. motor in this motor cradle No. 3165. The twin $\frac{1}{4}$ h.p. drive is entirely new. The motors are coupled by flexible coupling. These twin motors deliver up to $1\frac{1}{8}$ h.p. One motor can be used alone for light cutting and the other thrown into service for heavy cuts. On long runs of light cutting one motor can be used at a time. Wallace Cradle Drive eliminates the one reason for using "V" belts. *Wallace Cradle Drive does not permit the belt to fly off at a tangent but keeps the belt snug and hugging the pulleys.* "V" belts are thick—considerable power is wasted flexing "V" belts over small pulleys, wedging into "V" pulleys also wastes power. These losses are eliminated in Models 42, 42-E and 42-P—a thinner flat belt is used and by test delivers 20% more power to the spindle.

Auxiliary Table

The *Auxiliary Table* is mounted on the stand immediately along side of the No. 42 table. It is raised and lowered by means of a lever and locks securely. A substantial table for handling heavy stock, not merely panels.

The *Rip Fence* runs the entire length of the table and is used on both the saw table and the auxiliary table. It lays on the table like a "T" square, self-aligning. It is locked absolutely immovable and non-creeping by means of a knurled nut. This one nut clamps it to the front and back of the table with one turn. The *Cross Cut Fence* can be used on either side of the saw table. Angles are clearly indicated on a dial by degrees. This fence can be swung through a total of 180 degrees. The fence slides on accurate milled rails cast in the side of the saw table. We have eliminated the grooves ordinarily cut in saw tables for a cross cut fence because they interfere with the accurate setting of the rip fence. A *Hood and Splitter Type of Guard* is obtainable at a small extra cost. This type of guard has the approval of the state safety boards. It covers the saw blade and provides a splitter to spread the stock. It is designed for quick removal when dadoing or grooving.

We are proud to offer a saw table which makes it possible for you to handle so large a variety of work at such a popular price. We have manufactured many thousands of precision saw tables, selling at much higher prices, and assure you this is one of the finest tools available in this class. It has been designed and built for real work, for accuracy and safety. We have attained all of the advantages of capacity, accuracy, safety in this simplified, beautiful unit—Model No. 42-E.



Model 42-E showing twin motor cradle drive

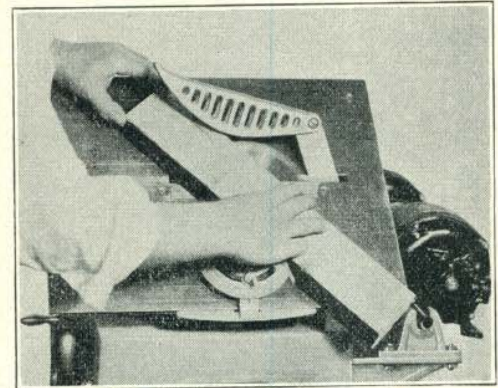
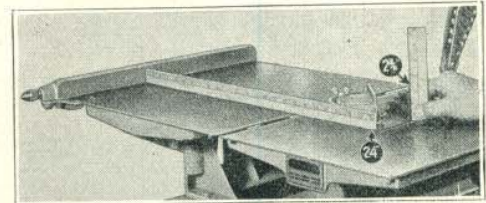
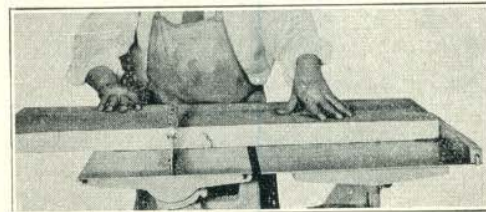


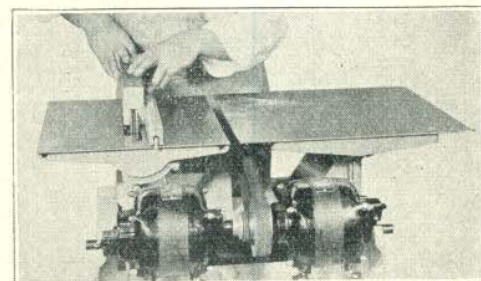
Table tilted to cut at an angle



24" capacity between blade and fence
Cuts full $2\frac{3}{8}$ " deep



Power and capacity for heavy cutting



Dadoing on the No. 42-E

WORKACE MACHINES ARE PRACTICAL TOOLS



WORKACE Electric Shaper

Model No. 18

- Quick Setup
- High Speed
- Portable
- Economical
- Direct Motor Drive

Thousands of Workace Electric Shapers are in service—in large plants and small shops—schools and hobby shops, maintenance departments, pattern and cabinet shops and furniture repair departments, etc.

In the *large plants* the Workace Electric Shaper supplements the larger equipment—handles all the lighter work and short runs at an enormous saving in set up time, power and investment. It is portable, can be taken to a job—saves steps. Operates off light circuit, can be economically run at any time independently of the other plant equipment—that is a decided advantage in equipment of the Wallace and Workace type.

The capacity of the Workace Electric Shaper, the speed and precision with which it operates, the small investment and low operating and maintenance cost, places the *small shop*, pattern shop or cabinet shop, furniture repair departments, schools and hobby shops in a position to do all kinds of shaping efficiently and economically, to handle long runs or

short runs, specials and repairs; any type of moulding, grooving, beading, shaping and tenoning.

Set ups for any shape are quickly made on the Workace Electric Shaper. To facilitate short runs we have worked out a set of cutters in Nos. 2757, 2758 and 2759 which, in various combinations, make it possible to cut practically any shape. Knives and solid cutters, of course, are available for long runs or shapes often made up.

The Workace Electric Shaper operates from the electric lighting circuit, also available for 120 or 180 cycle, three phase. It is direct motor driven—direct, positive, powerful and economical drive; no belts to dissipate power. High speed, 10,000 R.P.M. (no load speed). Works with or against the grain; portable, easily taken to the job, saves steps. Precision ball bearing, air cooled.

We will gladly submit the Workace Shaper to you so that you may try out what we claim to be the biggest value in woodworking equipment—a high speed, powerful, accurate tool at a very modest price—the Workace Electric Shaper.

EQUIPMENT

The Workace Electric Shaper comes complete as illustrated above including two steel shaper collars 2" dia., 3/8" thick, bevel grooved for knives; four spacing collars 1/2" thick; locking pin, 10 ft. lamp cord and separable plug. Motor to operate on 110 or 220 volts DC and AC, 25 to 60 cycle, single phase, or 220 volts, AC, 120 cycle, three phase (7200 RPM) 1 HP., or 220 volts, AC., 180 cycle three phase, 1 HP. (10,800 RPM).

SPECIFICATIONS

Diameter of spindle.....	5/8"
Maximum width cutter bits.....	2 1/4"
Maximum width solid cutters.....	2 3/4"
Vertical adjustment of table.....	1 1/2"
Diameter of table.....	16"
Diameter of base.....	16"
Height of table.....	13"
Speed, no load, R.P.M.....	10,000
Motor, universal type.....	3/8 H.P.
Net weight, lbs.....	54
Domestic ship. wt., lbs.....	70
Export ship. wt., lbs.....	120
Cu ft. (export).....	.6
Code Word.....	WOPER

REVERSE ROTATION: The Standard Workace Electric Shaper rotates in counter clock-wise direction. The Shaper can be supplied, at a small extra cost, to operate clock-wise.

WE RECOMMEND

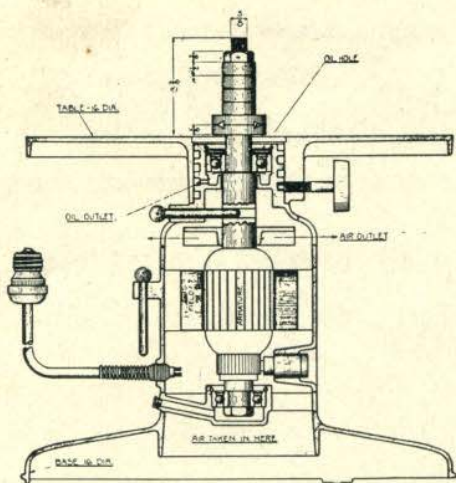
three or four wing cutters for shapes used frequently, saves set-up time, quotation on request. Knives are available in shapes shown on opposite page. For quick set up on short runs of various shapes we suggest cutters Nos. 2757, 2758 and 2759 illustrated on opposite page. Guard No. 2714 and Fence No. 2713. These items are optional and available at a small extra cost.

YOU LIVE ONLY ONCE

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USE PRACTICAL TOOLS

WORKACE Shaper Cutters

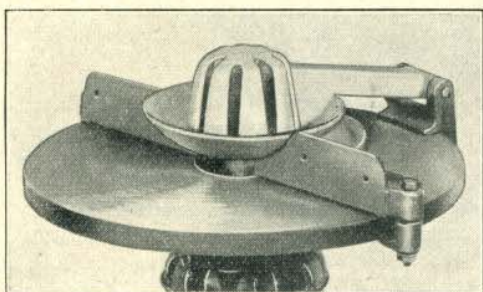


SECTIONAL VIEW OF SHAPER

The accompanying sectional view shows the construction of the Workace Electric Shaper. Note that it is direct motor driven, equipped with large precision type ball bearings, and that the unit is air cooled, air drawn up thru the base and expelled at the top. A locking pin is provided to lock the spindle while setting up head. The pin rests in a holder at the side. Slinger below upper bearing throws off the oil and prevents excess oil getting into the motor. Oil drains to the outside of the machine. The table is adjusted on heavy screw for various heights and locks securely by hand wheel.



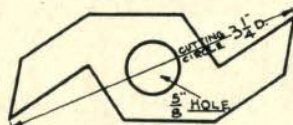
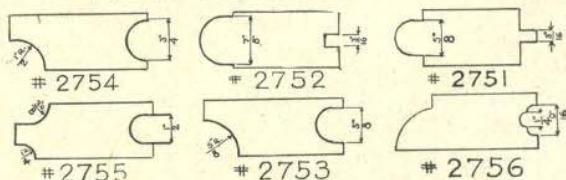
SPINDLE



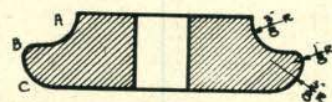
HOOD GUARD AND FENCE FOR WORKACE SHAPER

The Hood Guard No. 2714 covers the shaper head. When fed into machine the stock engages the bevel rim of guard and raises it sufficiently to allow stock to pass. Cut finished, the guard covers up head completely. Fence No. 2713 is used when shaping, grooving, tenoning straight stock. Hood Guard No. 2714 used alone when shaping irregular shaped or curved stock.

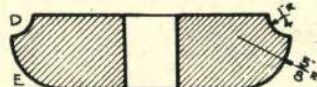
WORKACE SHAPER KNIVES



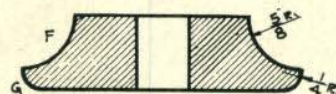
TOP VIEW OF CUTTERS



PROFILE 2757

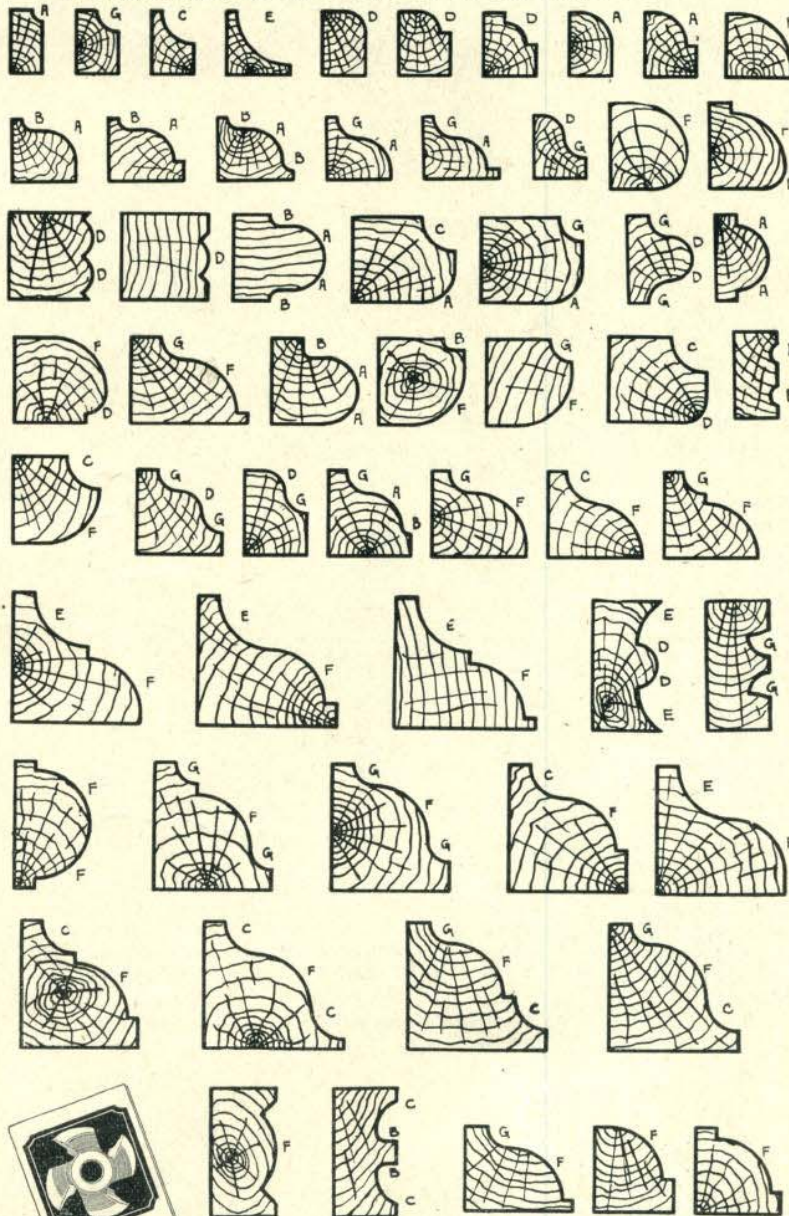


PROFILE 2758



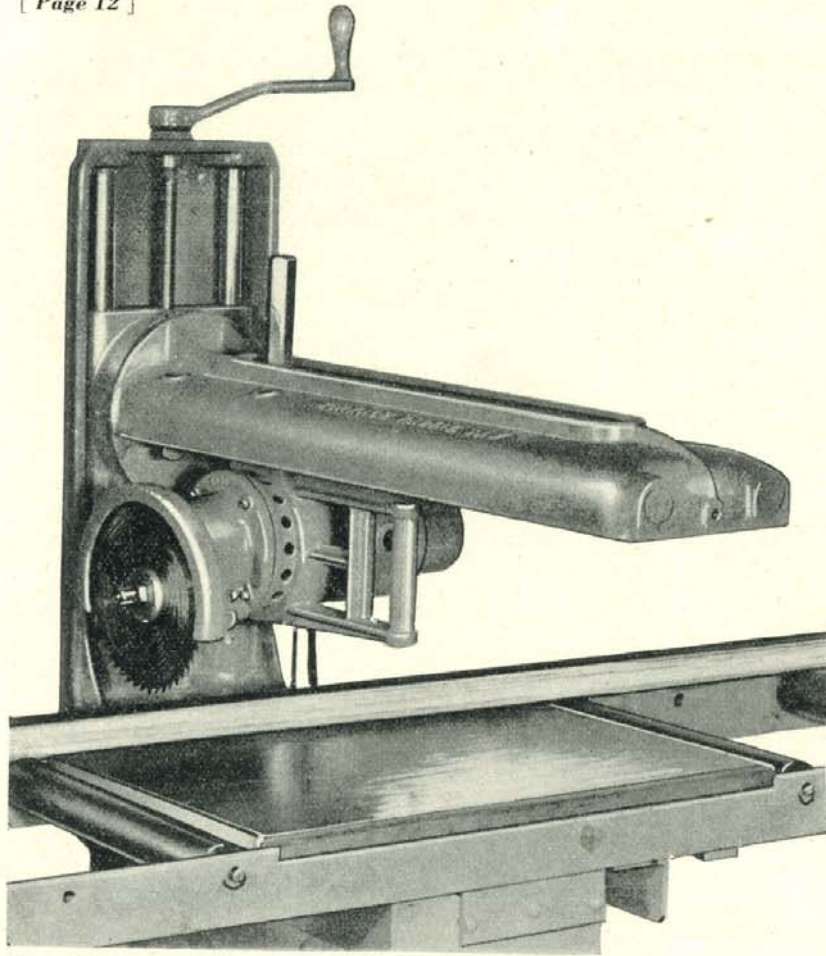
PROFILE 2759

From profiles No. 2757, 2758, 2759 the following shapes can be cut.

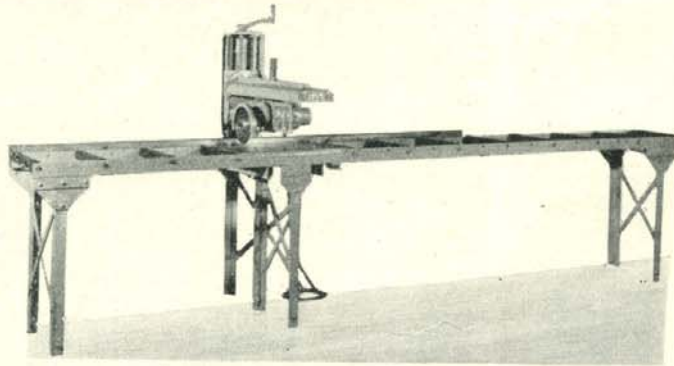


Send for Special Catalog of Wing Cutters for Workace Electric Shapers

WORKACE MACHINES ARE PRACTICAL TOOLS

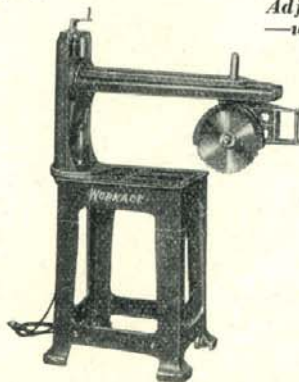


The Workace Radial Saw is available with or without table or stand. Illustration above shows machine mounted on Roller Conveyor Table No. 3623 (full view shown to right). Illustration below shows machine mounted on Cast Iron stand No. 3398. User mounts wooden table on stand as illustrated on opposite page.



Conveyor Table No. 3623. Ball bearing, steel rollers — 14" x 2" — 12" apart. Holes provided to install rollers 6" apart. Angle iron frame 8' on infeed, 4' on outfeed end; 36" high. (additional lengths quoted on application).

Adjustment furnished in each leg to level table — wood table and fence not furnished.



Cast Iron Stand No. 3398. Top 19½" x 17" — height 34". Mounted on casters. Table drilled for attaching wood table.

Save
30% to 50%
on
Cutting
Operations

YOU LIVE ONLY ONCE -- USE

WORKACE RADIAL SAW MODEL No. 1

One Machine That Handles All Cutting Operations

Fast and accurate saw, quickly set for cross-cutting at any angle or compound angle or for ripping, bevel cutting, dadoing, routing, shaping, fluting and sanding.

DIRECT MOTOR DRIVEN UNIT

The stock lies flat on the table—the saw travels through.* This feature is a decided advantage particularly where long, wide or heavy material is to be cut. The saw travels in a straight line—not an arc.

The Workace Radial Saw is the ideal machine for the builder. It is portable, operates on the light circuit—can be taken about building, located conveniently to save steps. It handles practically every operation with the greatest efficiency, from cutting frames, studding, rafters, joists, bracing, siding and flooring to trimming sash, door and window frames.

* Except when ripping.

SAW TRAVELS THROUGH STOCK

The Workace Radial Saw is popular in the lumber yard and mill. Enables the yard to give quick service filling orders, cutting specials. Cuts inventory, by reducing number of sizes material usually carried. The Workace Radial Saw in a yard, available for customers' use, attracts business. In the woodworking plants, the Workace Radial Saw is used for many operations, especially for cut-off work and dimension cutting. Saw travels 19½". The Workace Radial Saw is a real money maker in the shipping rooms, maintenance and construction departments.

A compact, powerful, accurate machine designed for rapid cutting.

CONSTRUCTION FEATURES

Regularly equipped with 8" blade, cuts 2½" thick. Special 9" blade cuts 3". Width with dado or cope heads, 1". Blade travels forward 19½". Universal motor, especially designed for this application by the General Electric Co., is used. Operates on either 110 volts D.C. or 110 volts A.C. 25, 30, 40, 50 or 60 cycle, electric lighting circuits; also supplied for 220 volts. It is efficiently air cooled, forced draft. Ball bearing motor. Switch mounted on outer end of motor.

Maximum power is obtained by direct drive; steel spur gears. Gears and spindle run in oil; enclosed in a housing which is cast as an integral part of the motor. This construction makes it possible to use smaller diameter, less expensive, saw blades, dado and cope heads; cutting closer to the center assures maximum cutting efficiency at the lowest cost. The normal average load speed of the motor is about 8000 r.p.m., saw speed 4000 r.p.m. The Motor Drive Unit is mounted on turn table, 6" in diameter. This assembly slides on two 7/8" steel rods located in the Radial Arm for horizontal travel. This turn table permits the Motor Unit to be set and locked at any angle—turning completely around if desired. Two handles are conveniently located, for guiding the saw. The handle most convenient may be used. The vertical handle also serves as a clamping nut for locking the saw motor unit in the desired position on the turn-table. A thumb screw is also provided for locking the saw at any point desired in the horizontal travel on the steel rods. The two heavy steel bars, on which the motor travels horizontally, are accurately machined within .001". These bars are set at a center distance of 6" thus assuring absolute rigidity throughout the life of the machine.

The Radial Arm is mounted on a turn-table, 10" in diameter, and attached to the upright column. Radial Arm can be turned and locked securely

in any desired position for bevel cutting. This assembly slides on two accurately machined 1" vertical steel bars, in the upright column. It is raised or lowered by a screw in the vertical column so that the blade may be set to cut any depth. Vertical travel 5¾".

The Vertical Column is also mounted on a 10" turn-table at the base so that the column supporting the Radial Arm may be swung and securely locked in any position for angle cutting, right or left. The turn-tables are of large diameters, carefully machined to assure quick, accurate adjustment without binding and to eliminate any wear that might develop inaccuracies. Turn-tables in base and on vertical column fitted with angle indicators. A guard to cover 8" blade furnished as standard equipment. Larger aluminum hood type guard No. 3619 large enough to accommodate a 10" blade, dado or cope head available at extra cost. Guards mounted on spindle bearing.

Saw spindle is steel, accurately ground, hardened. 5/8" diameter at saw end, round. Fitted with steel saw collars and nut. Spindle and gears run in oil-splash lubrication.

The WORKACE Radial Saw is equipped with the Ring Base for mounting on bench, Vertical Column, Radial Arm, Motor Drive Unit, Saw Guard, 8" Combination Rip and Cross-cut Blade, Crank Wrench, Switch and ten foot cable, with separable plug. The cast iron stand No. 3398 or conveyor table No. 3623 are each priced separately.

Every WORKACE Radial Saw is regularly equipped with the features as described and guaranteed against defects in materials and workmanship for one year.

Specifications for No. 1 Workace Radial Saw

Width of cut with dado or cope head.....	1"
Horizontal travel of blade.....	19½"
Vertical adjustment.....	5¾"
Size of motor, H.P.....	7/8"
Diameter of saw spindle.....	5/8"
Speed of blade, R.P.M.....	4000
Height of machine on stand.....	34"
Depth of cut with 8" blade furnished, 2½"; 9" blade.....	3"

Code, machine only.....	WOMAC
" " and Conveyor Table No. 3623.....	WOCON
" " and Cast Iron Stand No. 3398.....	WOTOW

	Weights—Net	Domestic Ship.	Foreign Ship.
Machine only.....	155 lbs.	198 lbs.	220 lbs., 7 cu. ft.
Machine and No. 3623 Table.....	215 lbs.	258 lbs.	300 lbs., 20 cu. ft.
Machine and No. 3398 Stand.....	260 lbs.	340 lbs.	445 lbs., 13 cu. ft.

RADIAL SAW MODEL No. 1

Handles All Cutting Operations

Cutting at any angle or compound angle or for ripping, bevel cutting, shaping, fluting and sanding.

SAW TRAVELS THROUGH STOCK

The Workace Radial Saw is popular in the lumber yard and mill. Enables the yard to give quick service filling orders, cutting specials. Cuts inventory, by reducing number of sizes material usually carried. The Workace Radial Saw in a yard, available for customers' use, attracts business. In the woodworking plants, the Workace Radial Saw is used for many operations, especially for cut-off work and dimension cutting. Saw travels 19 1/2". The Workace Radial Saw is a real money maker in the shipping rooms, maintenance and construction departments.

A compact, powerful, accurate machine designed for rapid cutting.

This feature
any material is
builder. It is
about building,
every operation
rafters, joists,
window frames.

ADJUSTION FEATURES

Special 9" blade
forward 19 1/2".
by the General
110 volts A.C.
applied for 220
motor. Switch

in any desired position for bevel cutting. This assembly slides on two accurately machined 1" vertical steel bars, in the upright column. It is raised or lowered by a screw in the vertical column so that the blade may be set to cut any depth. Vertical travel 5 3/4".

The Vertical Column is also mounted on a 10" turn-table at the base so that the column supporting the Radial Arm may be swung and securely locked in any position for angle cutting, right or left. The turn-tables are of large diameters, carefully machined to assure quick, accurate adjustment without binding and to eliminate any wear that might develop inaccuracies. Turn-tables in base and on vertical column fitted with angle indicators. A guard to cover 8" blade furnished as standard equipment. Larger aluminum hood type guard No. 3619 large enough to accommodate a 10" blade, dado or cope head available at extra cost. Guards mounted on spindle bearing.

Saw spindle is steel, accurately ground, hardened. 5/8" diameter at saw end, round. Fitted with steel saw collars and nut. Spindle and gears run in oil-splash lubrication.

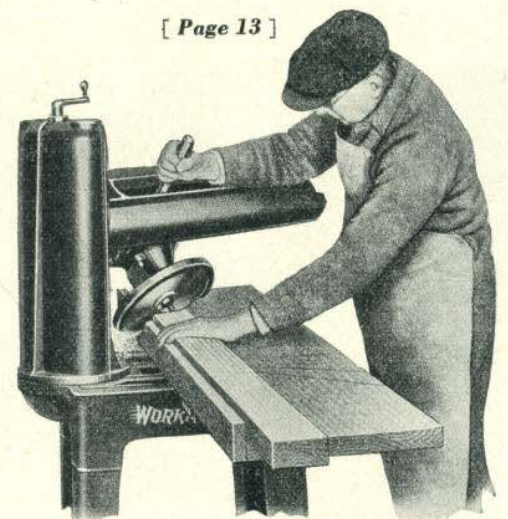
The WORKACE Radial Saw is equipped with the Ring Base for mounting on bench, Vertical Column, Radial Arm, Motor Drive Unit, Saw Guard, 8" Combination Rip and Cross-cut Blade, Crank Wrench, Switch and ten foot cable, with separable plug. The cast iron stand No. 3398 or conveyor table No. 3623 are each priced separately.

Every WORKACE Radial Saw is regularly equipped with the features as described and guaranteed against defects in materials and workmanship for one year.

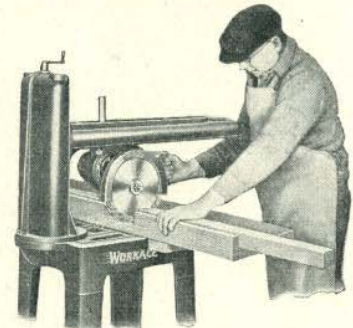
Options for No. 1 Workace Radial Saw

Code, machine only	.....	WOMAC
" " and Conveyor Table No. 3623	.....	WOCON
" " and Cast Iron Stand No. 3398	.....	WOTOW
Weights—Net		
Machine only	.....155 lbs.	198 lbs.
Machine and No. 3623 Table	.....215 lbs.	258 lbs.
Machine and No. 3398 Stand	.....260 lbs.	340 lbs.
		Foreign Ship.
		220 lbs., 7 cu. ft.
		300 lbs., 20 cu. ft.
		445 lbs., 13 cu. ft.

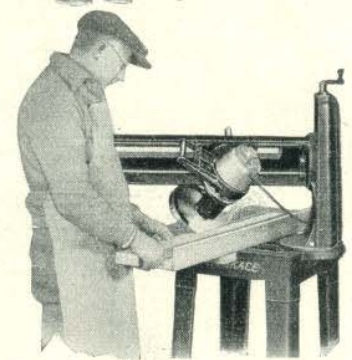
1"
19 1/2"
5 3/4"
5/8"
4000
34"
3"



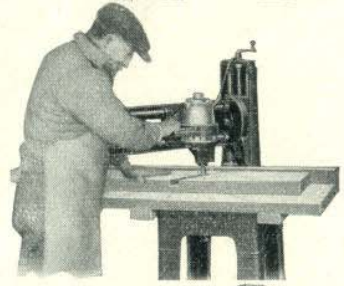
CROSS CUTTING COMPOUND ANGLE
Vertical column is swung to angle desired—radial arm tilts head. Illustrated—cutting compound 25 angle.



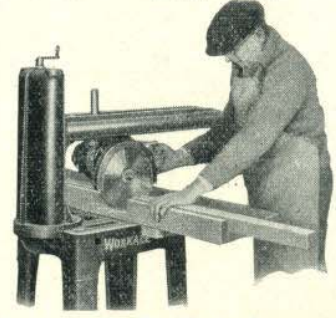
DADOING
Dado or grooving at any angle easy in Workace Radial Saw.



BEVEL RIPPING
Simple setting of vertical column and radial arm and motor makes it possible to rip at angle.

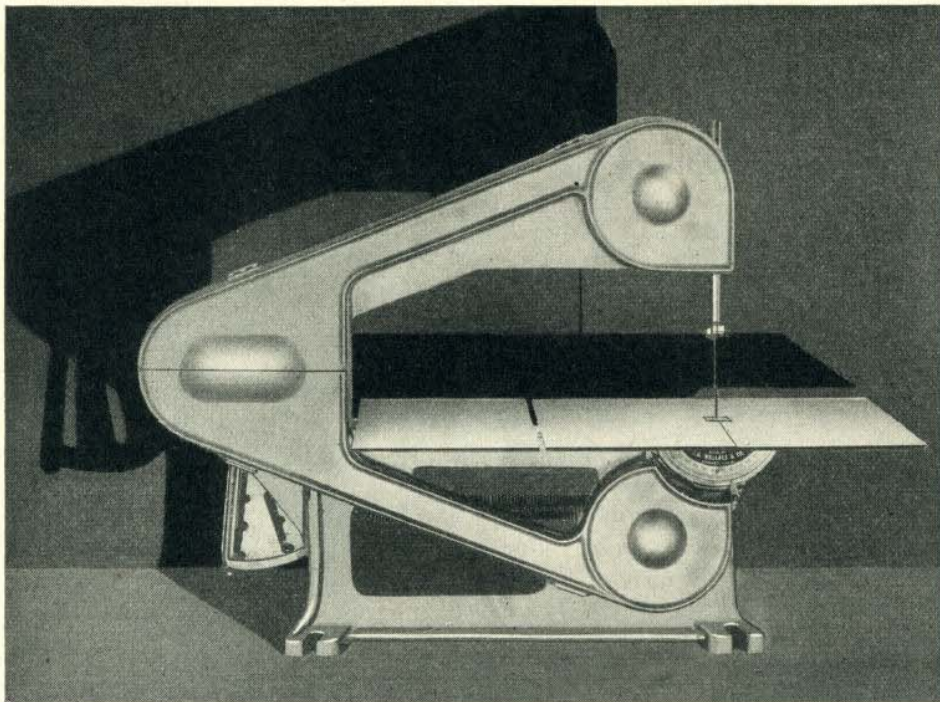


ROUTING, SHAPING, TENONING
Radial arm turned spindle down. Attach adaptor 3669 to hold bits.



CROSS CUTTING
Simply draw the saw through the work.

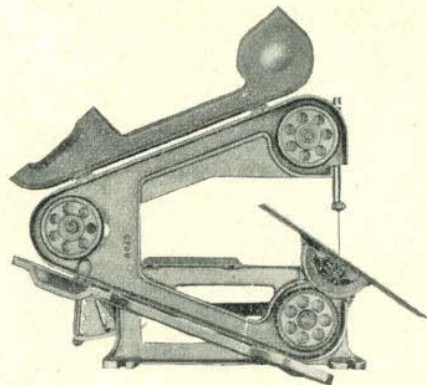
WALLACE MACHINES ARE PRACTICAL TOOLS



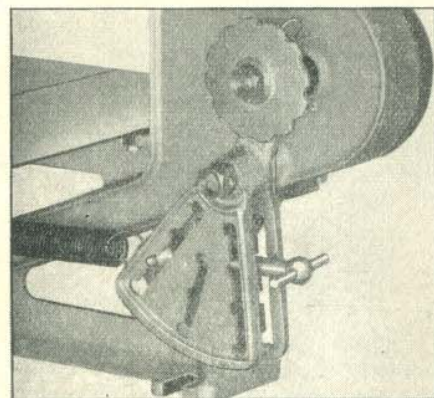
- **Faster Cutting**
- **Longer Blade Life**
- **Cuts Smallest Diameters**
- **Wallace Cradle Drive**
- **Correct Tensioner Device**

(Model 34)
12" Capacity

WORKACE BAND - SCROLL SAWS



Interior Construction Guards open showing wheels. Table tilted 45°.



The "CORRECT TENSIONER"; an ingenious, simple device for providing correct blade tension. Handwheel tilts wheel to properly track blade.

In response to the demand we have produced the Workace Band-Scroll Saw, a band type of machine to handle *all irregular cutting*.

The Workace Band-Scroll Saw is more than a band saw; it is more than a scroll saw. This one machine solves your irregular cutting problems.

FIRST. You can handle a much greater range of work with the Workace Band-Scroll Saw. In addition to ordinary band sawing, models No. 34 and No. 35 fitted with a fine "thread-like" blade (.007" x .035") will cut the most intricate designs, patterns, stencils, puzzles, etc. turning small diameter circles with ease. It is possible, for the first time, to use a fine blade on a band type machine. Feather weight aluminum wheels are mounted on precision, ball bearings, eliminating the inertia which would snap such fine blades on an ordinary band saw.

SECOND. You cut much faster on the Workace Band-Scroll Saw than on a jig or reciprocating type of saw for the blade is always cutting—a reciprocating saw cuts only on the down stroke.

THIRD. The cutting is much smoother and the surface edge is clean because the blade travels only in one direction.

FOURTH. In addition to the greater range of work that you are able to handle—greater capacity is available for the investment in these machines. The No. 34 has the capacity of a 12" and the No. 35 the capacity of a 24" band saw.

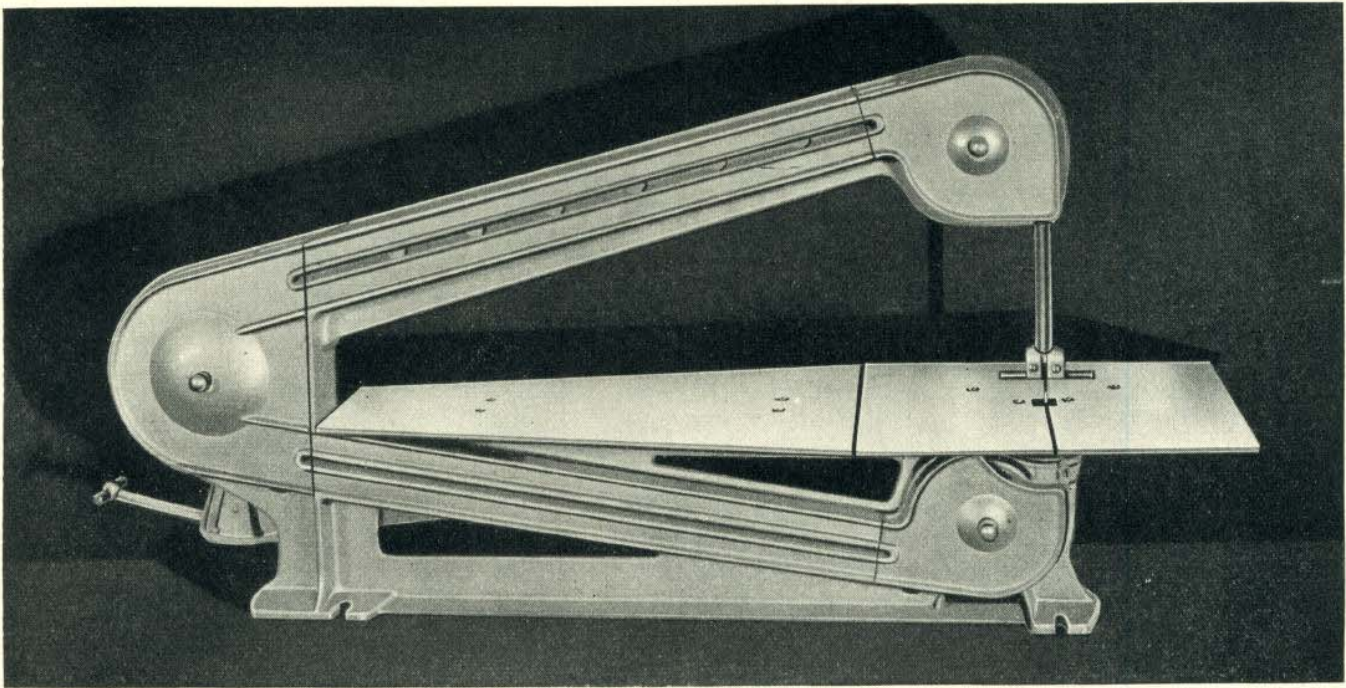
SPECIFICATIONS

	Model No. 34 12"	Model No. 35 24"
Diameter of band wheels.....	4"	4"
Maximum space under guide.....	5"	6"
Maximum width of cut.....	12"	24"
Length of saw blade.....	55"	80"
Speed of bandwheels, R.P.M.....	875	875
Size motor recommended, H.P.....	3/4"	3/4"
Lineal speed of blade, ft. per min.....	900	900
Weight of machine, net.....	42 lbs.	60 lbs.
Weight of machine, domestic.....	52 lbs.	70 lbs.
Weight of machine, export.....	72 lbs.	90 lbs.
Code Word.....	TRIBA	TRIDO

EQUIPMENT: The Workace Band Scroll Saws come complete as described with pulley mounted on the drive shaft; four blades, one each .035", 1/8", 3/16" and 1/4"; guards; correct tensioner; guides.

We recommend the Cradle Brackets No. 3164 and Cradle Bar No. 3163 using the Wallace Cradle Drive, also V belt No. 3789, 1-3/8" pulley No. 3799 or No. 3207 for a 1/4 h. p. motor, and at least a dozen extra blades of the sizes you will use most; also sanding attachment No. 4506 (illustrated) and belts, see page 22.

YOU LIVE ONLY ONCE -- USE PRACTICAL TOOLS



Model 35—24" Capacity

Built in 12" and 24" Sizes

SIMPLE, STURDY CONSTRUCTION

It is possible to pack such great capacity in models No. 34 and No. 35 because of the unique design—three wheels. The light weight wheels make it possible to handle a larger variety of irregular cutting. Each wheel is ground and crowned and faced with RUBBER TIRES. Each is carefully balanced and equipped with large, ball bearings. The mountings for these bearings are carefully machined in a sturdy, heavily ribbed frame.

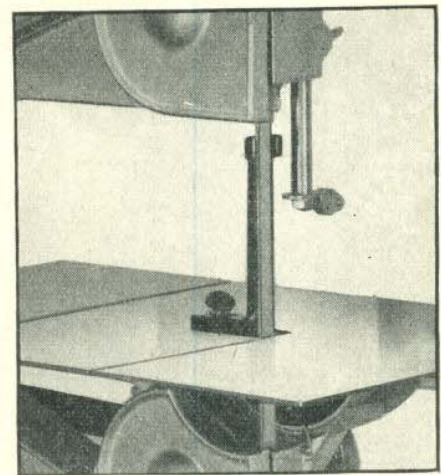
An ingenious yet simple device assures correct blade tension. It eliminates all worry and guess work. The *Correct Tensioner* (see illustration at left) is provided with three slots and eleven grooves each of which are clearly marked to indicate the correct tension for any size or length (long, medium or short) blades. The blade is *tracked* to run on the center of each wheel by tilting the rear idler band wheel. A large hand wheel provides a means for properly tilting this rear wheel, or idler. When the blade is running on the crown of the wheels the tilting mechanism is locked by a convenient thumb screw. Adjustments for tension and tracking are easily reached from the front of the machine.

Guides are provided above and below the table. The upper guide is equipped with precision ball bearings to back up the blade. The blade runs on the periphery of this ball bearing, not on the side, eliminating friction which causes a blade to heat, crystalize and break. This expense is eliminated by this perfected Guide No. 4712. Side bits are provided with both the upper and lower guides. *The Table* is a heavy steel plate mounted on a large cradle and tilts 45°. A stop is provided to locate the table at right angles with the blade. A large handle securely locks the table in any position. The angle is indicated on a graduated *Degree Plate* easily visible at the front of the machine. The *Auxiliary Table* is a heavy steel plate mounted at the side of the work table. Auxiliary Table is used to support wide stock—a handy plan for fine cut-out work.

Large Ball Bearing used. As you know a ball bearing gives satisfaction only when it is properly mounted. The ball bearing in Models No. 34 and No. 35 are set in carefully machined mountings and accurately lined up—not forced into a cored or die cast hole.

The *Frame* is a single heavy ribbed casting with suitable mountings for the table. This frame completely encloses the wheels and the blade from the rear. All moving parts and the blade, with the exception of the working point, are totally enclosed by guards (see illustration at left). *Blades* are made from alloy steel especially rolled and guaranteed not to break before delivering full service. These blades are available at an astonishingly low price because of our complete facilities for manufacturing blades. We maintain a *Resharpener* and *Reconditioning* service for the convenience of our customers. Our equipment enables us to file, set and weld with microscopic accuracy and provide you with blades which will cut smoother. Blades .035" and 1/8" wide cannot be resharpened; inexpensive, so discard when dull. We resharpen 3/8" and 1/4" blades at 10c each and reweld broken blades at 5c each. To secure this service enough blades should be sent at one time to make a minimum charge of \$1.00, plus postage on each order.

Workace Scroll Saws are easily and quickly put into service by using our *Wallace Cradle Drive*, an exclusive Wallace feature which, as illustrated on page 2 gives full power automatically and also enables use of the same motor for all Workace machines. When the Wallace Cradle Drive is used a 1/4 h.p. motor is all that is required to do the heaviest cutting within the capacity of either of these ball-bearing, light running models of Workace Band-Scroll Saws.



SANDING ATTACHMENT NO. 4605

The belt sanding attachment fastens to the table, backs up sanding belt. Desirable for sanding curved edges for finish work. Sanding belts listed on page 22.

PRACTICAL BILL SAYS

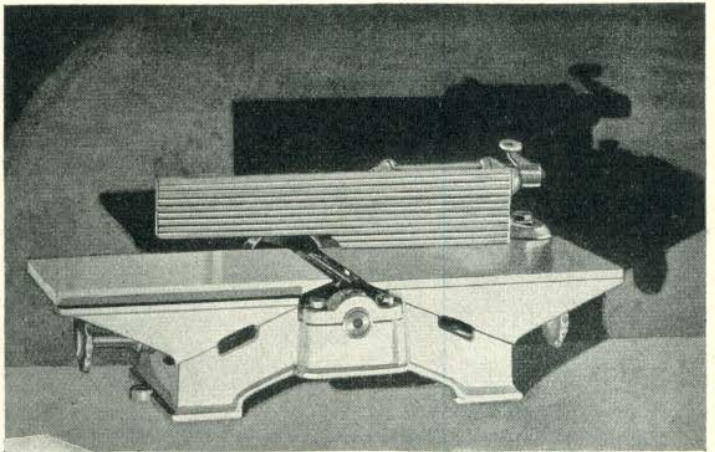
The Workace Band-Scroll Saw makes sense—one machine—one investment handles all irregular cutting. Cuts faster & smoother because the blade is always cutting & in one direction. There's capacity & with the WALLACE CRADLE DRIVE Plenty of Power

WORKACE MACHINES ARE PRACTICAL TOOLS

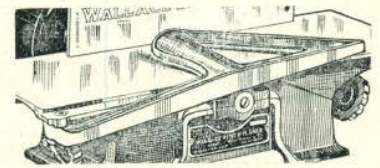
WORKACE 4" PLANERS

Available In Three Models

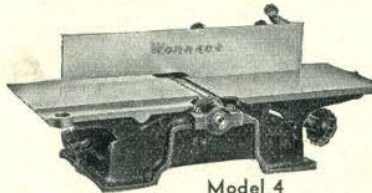
The Workace 4" Planer will save time in every commercial shop. With this machine at the elbows of cabinet makers, pattern makers, carpenters, assembly men, etc., excessive trips to the big jointer back and forth across the floor or locking up the material in a vice and working with a hand plane, are eliminated. The workman turns to his handy Workace 4" Planer, snaps the switch and in a few seconds he has a perfect jointer surface. Those who have been in the woodworking business during the past twenty years know what this 4" planer has done to reduce costs. These 4" planers—thousands of them—are in every shop where minutes count and where accuracy is demanded.



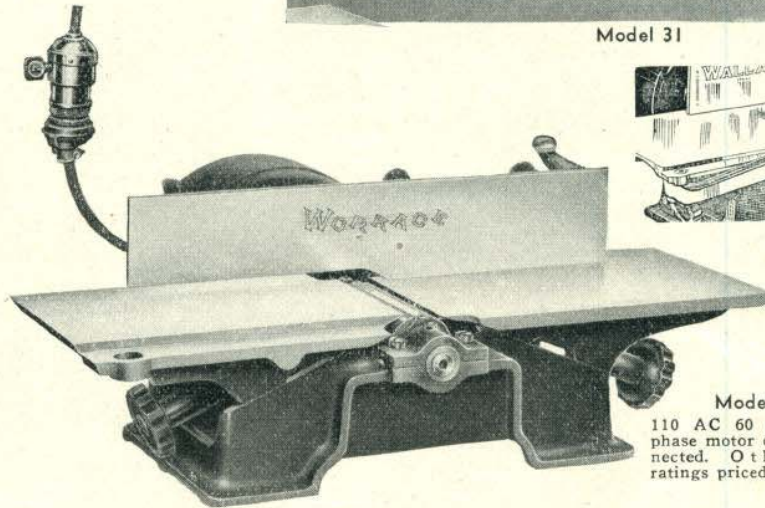
Model 31



Wallace Flap Guard



Model 4



Model 4M

110 AC 60 cycle single phase motor directly connected. Other current ratings priced on request.

CONSTRUCTION FEATURES

The Workace 4" Planers are available in two sizes, three styles—the 4-M direct motor driven, model No. 4 with pulley for belt drive and model No. 31, slightly smaller. These three models will joint or plane stock 4" wide. Model No. 4 and No. 4-M will rabbet $\frac{3}{8}$ " deep and model No. 31, $\frac{1}{4}$ ". The tables are adjusted by convenient hand wheels for any depth up to capacity, and so constructed that no locking devices are necessary. High grade *Bronze Bearings* account for the perfect finish obtainable with the Workace Planer, a finish unobtainable with anything but the most expensive ball or roller bearings.

The *Cutter Heads* are circular safety type, made of solid steel stock and ground to perfect round and balanced. Knives held by hardened screws. The *Knives* are high quality tempered steel proven during these twenty years as the most satisfactory. Three knives in models

No. 4 and No. 4-M, and two in model No. 31. The *Tables* are mounted on accurate machined inclined ways, four point contact. The surfaces are ground to limits of .005". The tables are heavily ribbed to maintain extreme accuracy. The fence is adjustable 45°, controlled by convenient hand lever which locks it securely in position, moves easily for various widths of rabbetting. The fence is mounted securely to the table at two points and close to the cutter-head to prevent springing or slipping, and for safety. Since extreme accuracy of the angles are required we recommend using a portractor. Any scales on the fence are misleading, therefore, we avoid them and, of course, do not charge for them. The *Wallace Flap Type Guard* available at small charge. (Flap guard illustrated above.) It opens automatically as the stock is fed in, keeping the unused part of the knives covered and closes immediately the cut is finished; action controlled by spring.

SPECIFICATIONS

	4-M	4	31
Knives	4"	4"	4"
Number of knives (No. 18)	3	3"	2
Maximum depth of cut	3/16"	3/16"	1/4"
Length overall	20"	20"	15"
Speed of cutter head	3600	3600	3600
Pulley size on cutter head	—	1 5/8"	1 5/8"
Size of motor h.p.	3/4	—	—
Net weight, lbs.	66	28	15
Domestic shipping wgt., lbs.	84	36	17
Export shipping weight	95	68	23
Cu. ft. (Export)	2 1/2'	2'	2'
Code	PLACE	WAPLA	ACEPL

MODEL 4-M. Equipment includes machine as described with three knives inserted in head, 3/4 H.P. motor directly connected by flexible coupling, cord and plug. Flap guard extra.

MODEL 4. Complete as described including three knives, V-pulley on cutter head shaft.

MODEL 31. Complete as shown including two steel knives and V-pulley on cutter head shaft.

WE RECOMMEND Cradle Brackets No. 3164; Offset Motor Cradle No. 3163; Motor Pulley No. 3799; V-belts No. 3789 for Models No. 4 and 31. Flap Guard No. 2980 for No. 4 and No. 4-M; No. 2794 Guard for No. 31. Also Knife Jointer No. 2799.

DRIVE...

On Model 4-M the 3/4 H.P. Motor is directly connected by means of a flexible coupling, especially designed motor feet, attach to this motor directly to the planer frame, no extra base is necessary; a compact unit. Models 4 and 31 are belt driven, using a V belt. You obtain the maximum power with a 3/4 H.P. Motor (recommended) to operate either models because of the high efficiency of the perfect WORKACE CRADLE DRIVE explained fully on page 2.

PRACTICAL BILL says:

It Pays to be particular about a planer. The cut must be smooth or it —spoils your Finish or joint

A planer is no better than its bearings. The head must run smooth. You can depend on good bronze; you can't depend on the less expensive ball bearings.

YOU LIVE ONLY ONCE

--

USE PRACTICAL TOOLS

WORK ACE JIG SAW

MODEL NO. 24

It is time that we reply to that universal question from practical men—"How do you pack so much value in Workace machines for the price? Those machines stand up and deliver, it seems, forever." The answer is, volume production; when you make thousands upon thousands of each machine you effect enormous savings—this is reflected in the price.

That is why you will find batteries of Workace Jig Saws on production lines in plants—repeat orders wherever additional jig saws are required.

CONSTRUCTION FEATURES

Capacity—12"—a compact unit. For those who require greater capacity 18" or 24", we suggest the practical adaptation illustrated at right. This will give you *unlimited* capacity. The setup is rigid and inexpensive. DEPTH of cut maximum 1 1/2". Workace Jig Saw can be used for metal, die cutting, electros and, of course, wood; cutting 3/16" plywood 4 to 6 at a time.

Heavy Steel Shaft ground to absolute round. The *Drive Construction* is a crank, pin and cross head construction, each part balanced to operate smoothly. *Lubrication* of bearing and moving parts by two convenient oil cups with wick feed. The *Table* (10" diameter) is a heavy steel disc mounted on large diameter sectors. Table tilts 45° either direction, locked securely by large lever. *Dial* indicates angle.

Pin end and plain end blades, sabre blades and files are quickly inserted in *Blade Holders*—a pair of new type holders is furnished for plain end blades, illustrated below. Goose-neck is easily removed—a pin locates it properly when re-assembled. The *Base* is a heavy casting. This supports the entire machine, thus avoiding the danger of throwing machine out of adjustment and causing wear and inaccuracy in cutting as when more than one support is used. You will be certain to have ample and constant speed and power to eliminate the annoyance of continually adjusting the motor, also belt slippage when you use the Wallace Cradle Drive (see page 2). With the Wallace Cradle Drive one motor serves many machines and operates each independently, efficiently and economically.

BLADES AND FILES

The successful and economical operation of the jig saw depends to a large extent on the quality of the blades. We supply blades made of material toothed and filed to assure you maximum service. Pin end blades are quickly inserted.

	Type	Width	Thick-ness	Teeth per inch	Length
No. 3230	Pin End	.118"	.022"	10	5"
No. 3231	Pin End	.118"	.022"	15	5"
No. 3258	Pin End	.035"	.010"	24	5"
No. 3259	Pin End	.045"	.010"	24	5"
No. 3257	Pinless Blade	.035"	.007"	18	3 1/2"
No. 3784	Sabre	1/8"	.028"	15	4"
No. 3785	Sabre	3/8"	.028"	9	4"
No. 3786	Sabre	1/4"	.028"	7	4"
No. 3238	Machine File	17/64"	Round file		
No. 3239	Machine File	7/32"	x 3/8" Pillar File		
No. 3241	Machine File	3/32"	Triangular File		

PRACTICAL BILL says:



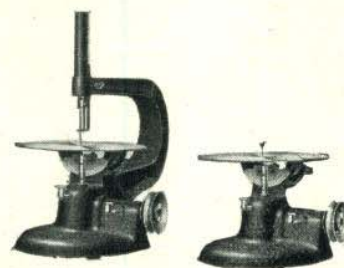
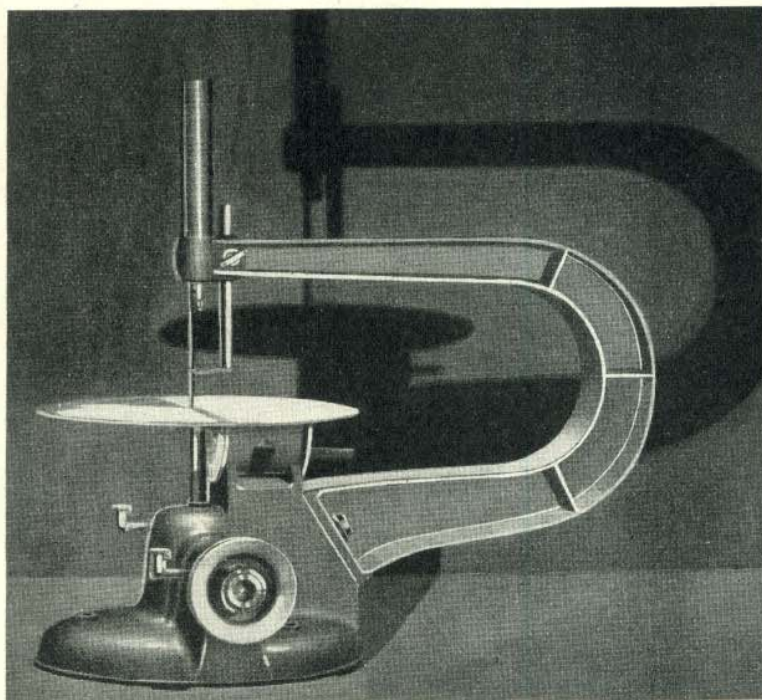
Either 12" capacity is plenty or you need an unlimited swing and you can have either at a very reasonable cost in the Workace Jig Saw. It will stand up for years—mine has

SPECIFICATIONS

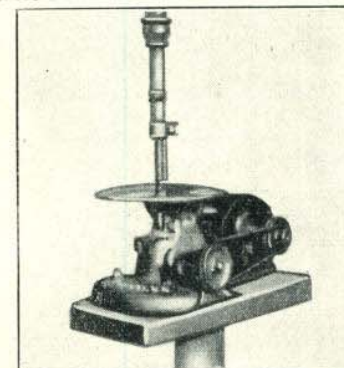
Stroke	1"
Maximum cutting thickness	1 1/2"
Between blade & gooseneck	12"
Table tilts, right and left	45°
Diameter of table	10"
Pulley on shaft	3 1/4"
Correct Pulley Speed, R.P.M.	900
Power Required, H.P.	1/4
Weights. NET 28 lbs.; domestic ship. wt. 35 lbs.; Export 55 lbs., 4 1/2 cu. ft.	
Code Word	JIGSA

(STANDARD EQUIPMENT includes Workace Jig Saw complete as illustrated, also pair No. 3270 Blade Holders, on each blades No. 3231 and No. 3250 and 6 No. 3257 pinless blades.

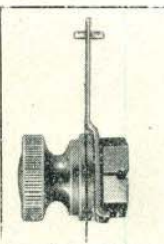
We recommend ordering an assortment of blades and files, also Wallace Cradle Bracket, for mounting motor. Pulley No. 3799 for motor and "V" belt No. 3789, see page 21.



Goose-neck removed, unlimited capacity, sabre blades used in this instance.

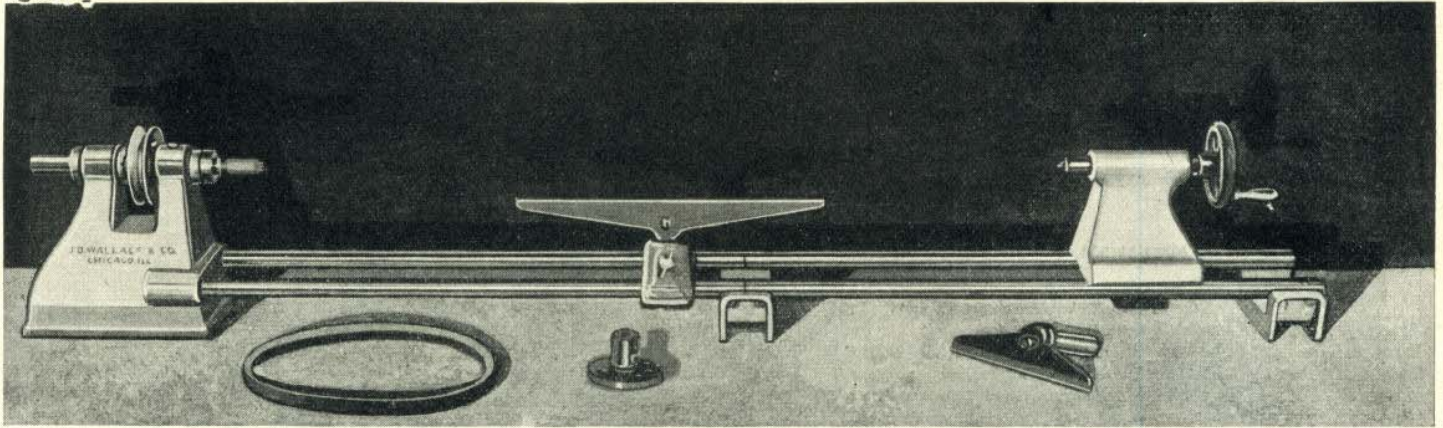


This set up gives you UNLIMITED capacity. Use 2" pipe from ceiling, stepped down to 1", then connect to plunger housing with three set screws. Gooseneck cut off and spring cylinder inserted in 2" pipe.
NO. 3270 BLADE HOLDER



New — greatly increases life of blades, especially fine blades. The blade is clamped over a 3/4" surface not at one or two points. No. 3270 Blade Holder slips into slots like pin end blade. Pair No. 3270 furnished with each Workace Jig Saw.

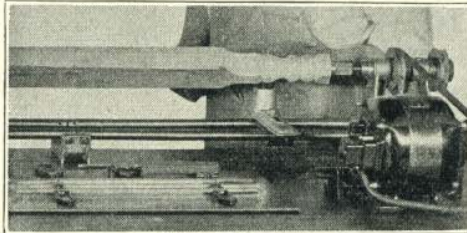
WORKACE TOOLS ARE PRACTICAL TOOLS



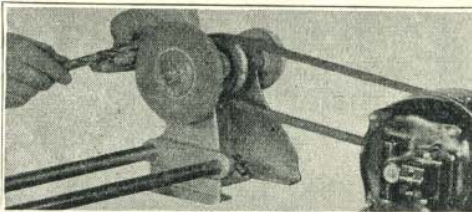
WORKACE 36" LATHE

Model No. 30

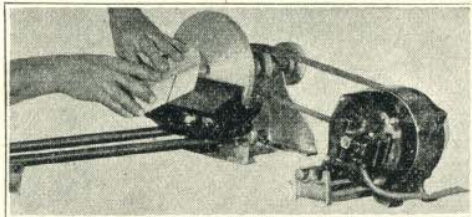
The lathe is the most essential machine for the shop—and certainly the most fascinating. There are thousands of useful items to be turned and since each offers a new experience, one's interest in the lathe never grows cold, provided, of course, your lathe runs absolutely smooth and produces a beautiful finish. In the Workace Lathe, Wallace has produced a fine tool. It has met popular demand. The resulting volume has made it possible to effect manufacturing economies that are reflected in the popular price.



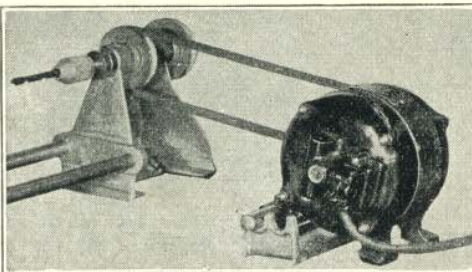
Turning Operation



Grinding (Wheel No. 3743)



Sanding (Work Table No. 2989 and Sanding Disc No. 3712)



Drilling (Drill Chuck No. 2926)

SPECIFICATIONS

Capacity over bed.....	8 7/8"
Capacity over tool rest.....	6"
Capacity on rear spindle.....	Unlimited
Between centers (standard lathe).....	36"
(Lathe bed can be extended by adding two lathe rods (No. 2947 and lathe foot No. 2915).)	
Standard two step "V" pulley No. 3990 on machine.....	2 3/4" x 1 7/8"
Pulley No. 3799 recommended for 1/4 H.P. Motor.....	1065
Speeds with 1725 r.p.m. motor (standard pulley) R.P.M.....	1560
(Additional speeds 940, 1800, 3460 r.p.m. possible.....	2050
with extra pulley No. 3790; extra charge.).....	3000
Length of Lathe, overall.....	50"
Weight, net 36 lbs.; domestic ship. wt. 39 lbs.; export ship. wt. 60 lbs.; 3 1/2 cu ft.	
CODE WORD.....	ACELA

CONSTRUCTION FEATURES

The *Bearings* are high grade precision bronze—the same material you will find in high speed production machines where absolute accuracy is demanded. Ball thrust bearings. *Lubrication* by convenient oil holes.

The *Lathe Bed* is steel—heavy steel rods ground, providing an absolutely smooth, true surface and so rigid it will not spring under loads many times the pressure ever exerted in turning, therefore your tool rest is always in line at any point. The *Head Stock* and *Tail Stock* are cast iron, accurately machined. Ground steel spindle in the head stock. Spindle available for use at either end, rear for large face plate work. Tailstock provided with hand wheel and positive lock.

Four speeds (1065, 1560, 2050 and 3000 R.P.M.) are provided in the standard machine—a two-step pulley (No. 3990) in the head stock operating from a two-step pulley (No. 3799) on motor. An additional pulley No. 3790 (at extra charge) makes possible seven speeds. No. 3790 Pulley is used on rear end of spindle.

The *Screw Chuck* or *Face Plate* can be used on either end of spindle. An accurately fitted *spur center* is provided. *6" and 12" tool rests* with 1" shanks and tool rest holder are provided. A *24" tool rest* is available at a small charge.

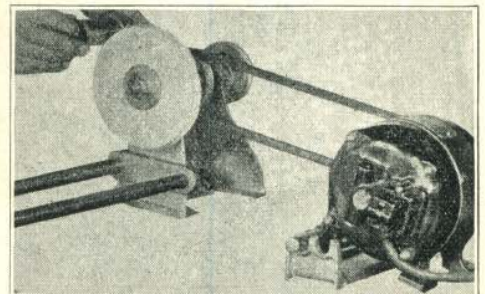
The perfected *Wallace Cradle Drive* provides ample power from 1/4 H.P. Motor, maintains speed and prevents belt slipping. As usual with the Wallace Cradle Drive you are not compelled to tie up a motor to a machine.

The Workace Lathe is readily adaptable for Disc and Drum Sanding, Buffing or Polishing, Grinding, Boring, etc. The necessary speeds are provided. These accessories are extra equipment described on page 21. Disc Sander No. 3712; Drum Sander No. 4477 and No. 4478; Buffer No. 3742; Grinding Wheel No. 3743; Drill Chuck No. 2926; Wire Brushes No. 4476 and 4641; Worktable No. 2989 attaches to lathe bed as illustrated below. Two collars (No. 3722) and Nut (No. 2045) should be ordered when ordering Buffer, Grinder or Wire Brush.

You will find the Workace Lathe a most practical and accurate tool—a wise investment.

(STANDARD EQUIPMENT. WORKACE LATHE complete as illustrated, includes 6" and 12" tool rests, V Belt No. 2939, screw chuck or face plate.)

We recommend Motor Pulley No. 3799; No. 3948 set lathe tools; pulley No. 3790 for additional speeds and if work requires No. 3824, 24" tool rest and additional holder No. 2894 and No. 4475 Steady Rest, also Cradle Brackets No. 3164, Offset Motor Cradle No. 3163 and 1/4 H.P. Motor.



Buffing (Buffer No. 3742)

YOU LIVE ONLY ONCE

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USE PRACTICAL TOOLS



PRACTICAL BILL SAYS

With that WORKACE LATHE and the new full length set of turning tools any man or youngster can turn anything. There's plenty of power with

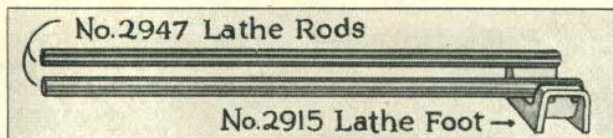


WORKACE LATHE TOOLS

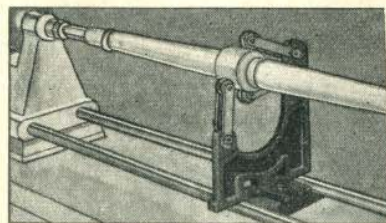
Complete Set No. 3948

Something entirely new—won instant acceptance by professional turners. Complete, usual set, eight on four tools. Non-skid—easy grip rubber handles, slips over one end of tool. Easier on hand than hard handles, easier to guide and safer to use. The first time it has ever been possible to get full professional length tools at less than the price of short tools. Tools made of high grade carbon steel, tempered.

- | | |
|---|---|
| No. 3940 Rubber handle for $\frac{3}{4}$ " tool. | No. 3947 $\frac{1}{2}$ " Turning Tool, blank, untempered. |
| No. 3941 Rubber handle for $\frac{1}{2}$ " tool. | No. 3973 Rack for holding tools and handles. |
| No. 3942 $\frac{3}{4}$ " Skew and $\frac{3}{4}$ " Round. | No. 3948 Complete set (except 2 blank tools). |
| No. 3943 $\frac{3}{4}$ " Gouge and Spear Point. | Shipping wt. 8 lbs. Code—TURTO. |
| No. 3944 $\frac{3}{4}$ " Turning Tool, blank, untempered. | |
| No. 3945 $\frac{1}{2}$ " Round and $\frac{1}{2}$ " Square. | |
| No. 3946 $\frac{3}{16}$ " Cut-Off and $\frac{3}{16}$ " Round. | |



To lengthen lathe bed add pairs lathe rods and one lathe foot per pair. Rods 22" long. Ship. wt. 2 rods and one foot, 9 lbs.



WORKACE STEADY REST. No. 4475

No. 4475. Steady Rest is a necessary accessory when turning long stock with small diameters; prevents springing and vibration of stock. Capacity $\frac{5}{8}$ " to 3". Ball bearing rollers do not interfere with tool. Can be put on without removing stock from lathe. Ship. wt. 6 lbs.

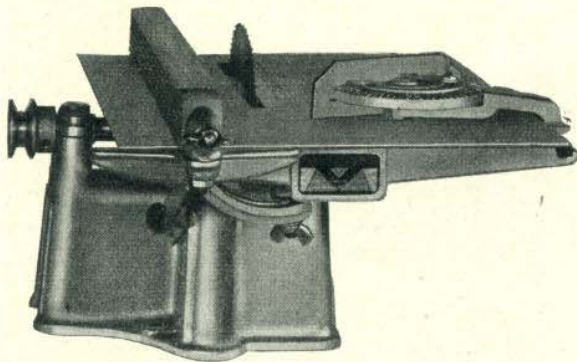


No. 3824. Long tool rest (24") available at slight extra charge. This is desirable when turning long stock, avoids necessity of changing position as with shorter rests. Requires additional Tool Rest Holder No. 2990. Total shipping wt. 4 lbs.

WE DEVOTE our efforts toward one end — to give you the most machine value for every dollar you invest. To do this we have adopted a very definite policy. We do not spend money upon extravagant advertising — we do not issue books or blue prints which is the duty of publishers — not machinery manufacturers. In short, our policy is to devote our talents, experience and facilities to the thing we do best — BUILDING MACHINES THAT GIVE YOU MAXIMUM PERFORMANCE per dollar invested in the machine and the power to operate it.

We are confident that WORKACE MACHINES will fulfill your requirements. So confident — that we unhesitatingly say to you — "Use WORKACE — and if, within 7 days, you are not 100% SATISFIED, your money will be refunded without question." You can't go wrong on a machine when the World's Largest Manufacturer of Portable Woodworking Machines for industry makes you a sporting proposition like that!

WORKACE MACHINES ARE PRACTICAL TOOLS



- Extra Heavy Spindle - - -
- Tilting Table
- High Grade Bronze Bearing
- Steel Tables

(Equipment includes blade No. 4433, rip and cross cut fences and spindle pulley No. 2959, as illustrated.)

WORKACE No. 32 SAW

Certainly the price of the Workace Circular Saw is so low it is unbelievable—we deliberately planned that.

However, we did not sacrifice but built into model No. 32 all of the essentials of a good Saw. We knew that a real value would result in tremendous sales volume and that volume production would make the price possible. We would not consider any other plan than this, as a cheaply built saw is unsafe.

CONSTRUCTION FEATURES

Model No. 32 has a Capacity of 2" x 7/8" wide. The Saw Spindle is Extra Heavy, 5/8" in diameter. That will carry cope heads and dado heads with safety. This spindle is ground absolutely round. It is mounted in the same type of bearings you will find in practically all high speed production tools where accuracy is demanded—high grade bronze bearings. The spindle is constantly lubricated from oil wells immediately below each bearing—wick feed. Bearings held in place on heavy base casting by caps—easy to replace bearing or to keep in perfect alignment or to instantly take up end play.

The Rip Fence is a solid casting—ground for accuracy—test it with a straight edge. Designed like a T-square. The head is provided with a simple adjustment to adjust the fence absolutely parallel with blade. It is clamped to both front and back of table by one turn of the wing nut—locks securely, safely. Cross Cut Fence slides on rail in side of machine—provided with take-up to assure accuracy at all times.

Table is a heavy steel plate absolutely level. Mounted on a grid that is ground for accuracy. Fitted with removable throat to provide room for dado or cope heads. Table adjustable 45°—steel stop locates it at right angle to blade. Locks at two points on segments—secure, safe. Table assembly mounted on two steel rods on which it raises and lowers—adjusted by lever. Locks at two points. Guard No. 4446, is a splitter and hood type, available at small additional charge. Wallace Cradle Drive applied to this sturdy, free running saw assures you the power to accomplish the main purpose of a saw—to cut and cut with satisfaction.

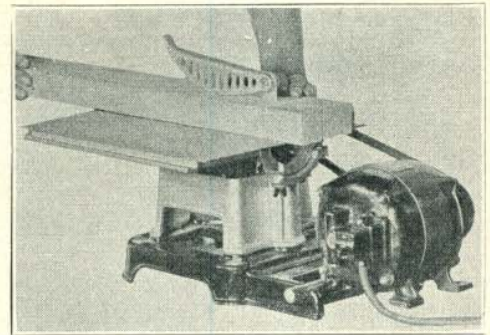
Blade is 6" diameter, 5/8" hole. Combination tooth for ripping and cross cutting furnished. The steel in the blades is of the same formula as blades in our more expensive machines.

It is plain for any practical man to see why we do the volume of business that makes the price possible—select No. 32 in this price class for SAFETY, SATISFACTION and SERVICE.

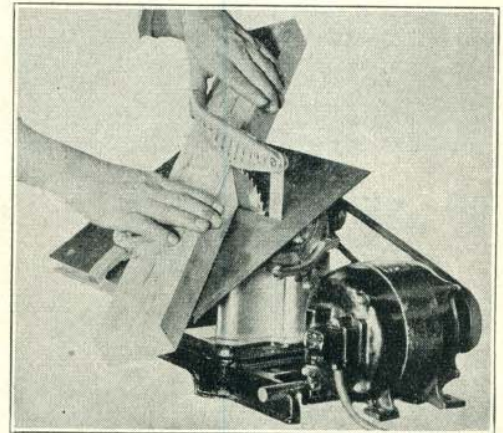
WE RECOMMEND Ordering Sub Base No. 4407; motor pulley No. 3799 (page 21); V Belt No. 3789; Guard No. 4446 and 1/4 H.P. motor. Also select various types of blades (page —). By mounting Model No. 32 on sub base No. 4407 with motor (see illustration) you have a compact, portable, powerful unit.

SPECIFICATIONS

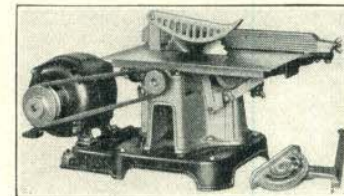
Depth of cut.....	2"
Width with dado or cope heads.....	3/8"
Width between cross cut fence and blade.....	5"
Width between rip fence and blade.....	6"
Diameter of blade.....	6"
Diameter of spindle.....	5/8"
Size of table.....	11"x14"
Size of motor recommended, H. P.....	3/4
Weight NET 20 lbs.; dom. ship. 30 lbs.; export 50 lbs. (2 cu. ft.)	
CODE WORD	ACESA



No. 32 ripping 2" stock.

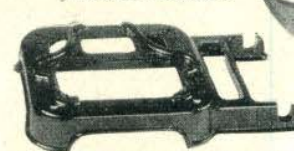


No. 32 cutting a compound angle in 2" stock.

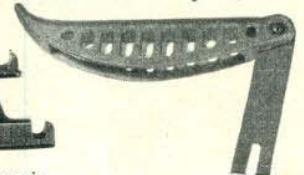


WALLACE CRADLE DRIVE
Mounting motor cradle bar No. 3163 and setting into brackets provided in sub base No. 4407, multiplies the efficiency of your motor.

The motor is taken out and used to operate other Workace machines.



No. 4407 Sub Base—extra equipment that makes a compact, portable unit of model No. 32 and motor.



No. 4446 Hood Guard and Splitter.

PRACTICAL BILL SAYS

I don't see yet how it is possible for even WALLACE to put so much real value in to a saw for that price, but there it is.

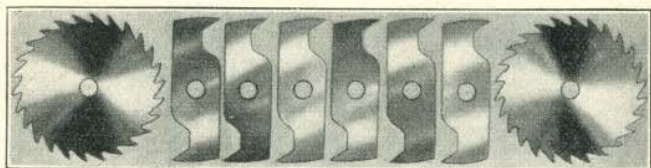


YOU LIVE ONLY ONCE

--

USE PRACTICAL TOOLS

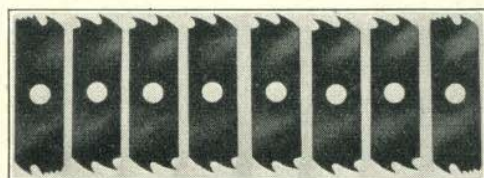
WORKACE ACCESSORIES



WORKACE DADO HEADS

5" Dia. No. 4436. 6" Dia. No. 4650.

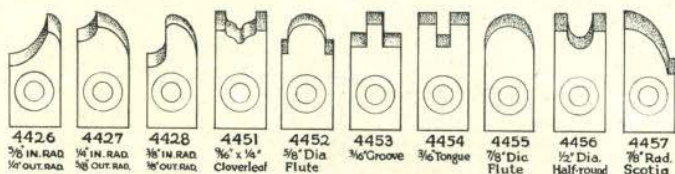
Dado Head illustrated comes in two diameters, 5" for Saw Model No. 32; cut 1 1/2" deep; 6" for Model Nos. 42, 42E, 42P; cut 1" deep. Both heads are made up of two outside cutters 1/16" thick. Both heads cut 1/2" wide; for additional width order additional fillers. Stock Numbers: 5" dia. outside cutter No. 4437; fillers No. 4438; 6" dia. outside cutters No. 4651, fillers No. 4652.



WORKACE DADO HEADS

5" Dia. No. 4644
6" Dia. No. 4647

5" head for No. 32 cuts 1 1/2" deep; 6" for Nos. 42, 42E and 42P, cuts 1" deep. Heads include two outside cutters fitted with raker teeth and 6 fillers, all 1/16" thick. Both heads cut 1/2" wide; for additional width order additional cutters. Stock numbers: 5" dia. outside cutters No. 4645; fillers No. 4646; 6" dia. outside cutters No. 4648; fillers No. 4649.



WORKACE COPE HEADS

Straight shaping, groove and tongue, half rounds, quarter rounds, clover leaf, in fact any shape moving can be cut on models, No. 42, 42E, 42P and 32. Above are illustrated various stock shapes of knives available—to the left is a Cope Head to which a pair of knives is attached, then mounted on saw arbor. Cope Head No. 4425 is one piece, solid steel. Blank, untempered cope knives are available so that you may make any special shape desired, by means of emery wheel on saw arbor. Blanks, No. 4450 are 2" x 7/8" x 3/16".



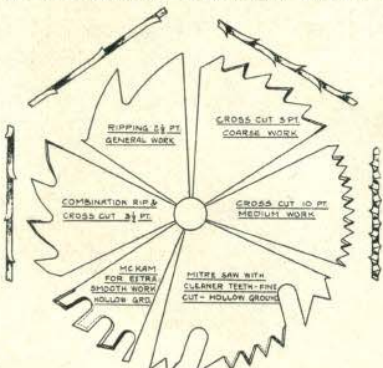
WORKACE CIRCULAR SAW BLADES

Fast, accurate, smooth cutting depends largely on the quality and condition of your saw blades. Use good blades and have several sharp ones always on hand. Several types available—COMBINATION, for cross cutting or ripping; RIPPING, designed for ripping and naturally rip faster and require less power than combination blades for ripping; CROSS CUT, for cross cutting; MITRE SAWS, cut at angles and leave a smooth finish; McKAM blades plane as they cross cut or rip, cut slow but leave a mirror finish. MITRE and McKAM blades are hollow ground. Various types illustrated below.

	For MODELS No. 42	No. 32
Combination rip and cross-cut	No. 3792	4433
3 1/2" pt.		
Ripping, 2 1/2" pt. general work	3796	4434
Cross cut 5 pt.	3797	4435
Mitre saw, smooth finish	2094	4449
McKam extra smooth rip or cross-cut	2095	

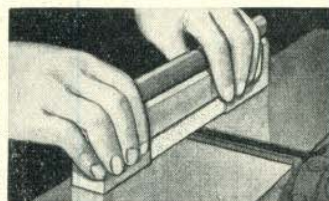
Resharpener Service

For the convenience of our customers who know that the length of service and satisfactory results depend on how a blade is resharpened, we maintain a department to condition your blades. For Filing, Setting and Gummung blades, 75c. One day service—mail your blades to Chicago.



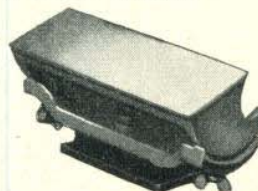
Knife Jointer No. 2799

With the Knife Jointer you can keep a keen cutting edge on Planer knives, touching them up while in head. Saves removing knives so often for resharpening. Jointing puts a "heel" behind the cutting edge—edges stand up longer. Jointing takes off high spots, all knives cut equally. Simple directions furnished.



WORKACE No. 2989 WORK TABLE

This Work Table is used in connection with Workace machines No. 30 and No. 42, 42E, 42P, when used for Sanding, Grinding, Boring, etc. Table (8"x3 3/4") tilts 45°. Attaches to lathe bed. Order 2 steel stub rods (No. 2948—25c ea.) to attach to saw if you do not have Lathe. Ship. wt. 6 lbs.)



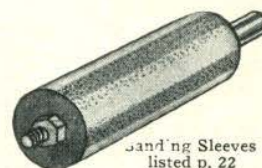
Workace No. 3712 Sanding Disc

Sanding Disc used on machines No. 30, 42, 42E and 42P, 8" diameter aluminum. For use with sandpaper or emery cloth. Paper or cloth glued on with cement, our No. 4643 or shellac. Weight 2 lbs. Ship. wt. 3 lbs.



Workace Sanding Drums

No. 4477, 2" dia.—No. 4478, 3" dia. Both sizes 3" long, 5/8" hole threaded to fit Saw Nos. 42, 42E, 42P and 32, Lathe No. 30, and Radial Drill No. 33. Drum is solid rubber core, sanding sleeve is locked by expanding rubber between two collars on steel shaft. Ship wt. 2 lbs.



Sanding Sleeves listed p. 22

Workace No. 2926—3/8" Drill Chuck

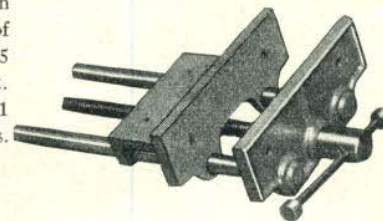
Workace No. 4561—1/2" Drill Chuck

Threaded for 5/8" shaft—used on machines No. 30, No. 33, No. 42, No. 42E and 42P. Shipping weight 1 lb.



WORKACE VISE—No. 4480

Opening 8"; width of jaw 8", depth 2 1/2". Sturdy, screw vise. Jaw slides on 3/4" steel rods, each ground to an accuracy of .001". Wt. 15 lbs.; ship. wt. 22; export, 1 cu. ft. 40 lbs.



WORKACE BELTS

Part	Type	Length	Price Ea.
No. 2939	"V"	39"	\$1.00
No. 3741	"V"	30"	1.00
No. 3789	"V"	28"	1.00
No. 4562	"V"	24"	1.00
No. 3188	Flat	36"	2.00
No. 3991	Flat	41"	2.00

WORKACE TOOLS ARE PRACTICAL TOOLS

GENERAL ELECTRIC MOTORS

Including 10 foot rubber covered cord and plug
 1/4 H.P. A.C., Single Phase Motors furnished with built-in switch

Part No.	Power	Voltage	Cycle	Phase	Type	Price F. O. B. Chicago
3765	3/4	110	60	Single	Split phase	\$12.70
3778	1/4	110	50	Single	Split phase	14.60
3766	1/4	220	60	Single	Split phase	18.10
3777	1/4	220	50	Single	Split phase	18.10
3769	1/4	110	DC		Compound	24.80
3776	1/4	220	DC		Compound	26.65
3899	1/2	110 & 220	60	Single	Repulsion Induction	29.90
3898	1/2	110 & 220	50	Single	Repulsion Induction	29.90
3896	1/2	110 & 220	25	Single	Repulsion Induction	42.55
3892	1/2	220	60	Three	Squirrel cage	32.20
3893	1/2	220	50	Three	Squirrel cage	32.20
3891	1/2	110	DC		Compound	34.50
3890	1/2	220	DC		Compound	35.65

Note: The voltage rating 110 & 220 designates a motor that is so constructed that the terminals can be changed from a 110 to a 220 volt connection or from a 220 to a 110 volt connection, others are not interchangeable.

WORKACE PULLEYS

Part No.	Type	Steps	Dia.	Hole	Held By	Price
43	Flat	One	2"	3/4"	Set Screw	1.00
2776	"v"	One	2 1/4"	1 1/2"	Set Screw	\$.75
2959	"v"	One	1 3/8"	3/8"	Set Screw	.75
3207	"v"	One	1 5/8"	1/2"	Set Screw	.75
3749	"v"	One	5 1/8"	3/8"	Set Screw	1.00
3790	"v"	Two	3 1/2" & 1 3/8"	3/8"	Set Screw	1.00
3791	"v"	Two	4" & 2"	1/2"	Set Screw	1.00
3799	"v"	Two	3 1/2" & 1 3/8"	1/2"	Set Screw	1.00
3990	"v"	Two	2 3/4" & 1 7/8"	5"	Set Screw	1.00
4510	"v"	One	1 5/8"	1 1/2"	Key & Nut	.75
4511	"v"	One	2"	1 1/2"	Key & Nut	.75
4512	"v"	One	2 3/4"	1 1/2"	Key & Nut	.75
4513	"v"	One	3 1/4"	1 1/2"	Key & Nut	1.00
4514	"v"	One	4"	1 1/2"	Key & Nut	1.00
4107	Flat	One	5"	1 1/2"	Set Screw	1.50
4108	Flat	One	5"	3/8"	Key & Set Screw	1.50
4109	Flat	One	5"	3/4"	Key & Set Screw	1.50
3996	Flat	One	2 1/2"	1 1/2"	Set Screw	1.00
3997	Flat	One	2 1/2"	3/8"	Key & Set Screw	1.00
3998	Flat	One	2 1/2"	3/4"	Key & Set Screw	1.00

SANDPAPER AND EMERY CLOTH

SLEEVES, BELTS AND DISCS

NOTE: Best grade of garnet cloth is furnished for wood and cloth back emery for metal.

SANDING DISCS

Part No.	Used on Part No.	Size	For	Grade	Price Doz.
4880	3712	8" dia.	Wood	0 Fine	\$1.00
4881	3712	8" dia.	Wood	1 Medium	1.00
4882	3712	8" dia.	Wood	2 Coarse	1.00
4883	3712	8" dia.	Metal	60 Fine	1.50
4884	3712	8" dia.	Metal	40 Coarse	1.50

CEMENT

Part No.	Price Pint
4643	For Attaching Sand Paper to Disc 3712 \$0.25

SANDING SLEEVES

Part No.	Used on Part No.	Dia.	Length	For	Grade	Price 1/2 Doz.
4685	4477	2"	3"	Wood	0 Fine	\$0.60
4686	4477	2"	3"	Wood	1 Medium	.60
4687	4477	2"	3"	Wood	2 Coarse	.60
4688	4477	2"	3"	Metal	60 Fine	.90
4689	4477	2"	3"	Metal	40 Coarse	.90
4690	4478	3"	3"	Wood	0 Fine	.60
4691	4478	3"	3"	Wood	1 Medium	.60
4692	4478	3"	3"	Wood	2 Coarse	.60
4693	4478	3"	3"	Metal	60 Fine	.90
4694	4478	3"	3"	Metal	40 Coarse	.90

SANDING BELTS

Part No.	Used on Machine No.	Size	For	Grade	Price 1/2 Doz.
4495	34	1/2" x 55"	Wood	0 Fine	\$0.90
4496	34	1/2" x 55"	Wood	1 Medium	.90
4497	34	1/2" x 55"	Wood	2 Coarse	.90
4498	34	1/2" x 55"	Metal	60 Fine	1.20
4499	34	1/2" x 55"	Metal	40 Coarse	1.20
4600	35	1/2" x 80"	Wood	0 Fine	1.20
4601	35	1/2" x 80"	Wood	1 Medium	1.20
4602	35	1/2" x 80"	Wood	2 Coarse	1.20
4603	35	1/2" x 80"	Metal	60 Fine	1.50
4604	35	1/2" x 80"	Metal	40 Coarse	1.50

GRINDING WHEELS

For use on Machines Nos. 42, 30, 42E, 42P, and 32, each with 3/8" hole.

Part No.	Type	Dia.	Face	Grade	Price Each
3743	Straight	5"	1 1/2"	46	\$0.75
4636	Straight	5"	3/4"	60	1.00
4637	Straight	4"	3/8"	60	.60
4638	Cup	2 1/2"	2"	46	1.00
4639	Cup	2"	1"	70	.75

WIRE WHEELS

Part No.	Type	Dia.	Face	Grade	Price Each
4640	Straight	4"	3/8"	Fine	\$0.75
4641	Straight	4"	3/8"	Coarse	.75

BUFFING WHEELS

Part No.	Dia.	Face	Price Each
3742	6"	0"	\$0.50
4642	Buffing Compound, per Stick		.50

DRILLS AND HOLLOW CHISELS

DRILLS

Straight Carbon Steel Drills

Part No.	Description	Price Each
4608	3/8" dia.	\$0.10
4609	1/2" dia.	.10
4610	3/4" dia.	.10
4611	1" dia.	.20
4612	1 1/8" dia.	.20
4613	1 1/4" dia.	.25
4614	1 3/8" dia.	.40
4615	1 1/2" dia.	.50
4607	Set of 8 drills, 1/16, 3/32, 1/8, 5/32, 3/16, 7/32, 1/4, 9/32, packed in wood cylinder with metal selector cap	1.25 set

COMBINATION COUNTERSINK

Part No.	Description	Price Each
4616	7/8" dia.	\$0.30

MACHINE BITS FOR WOOD

Shanks 3/8" x 2"

Part No.	Description	Price Each
4617	1/4" dia.	\$0.70
4618	3/8" dia.	.70
4619	1/2" dia.	.90
4620	3/4" dia.	.90
4621	1" dia.	1.20
4622	1 1/8" dia.	1.30
4623	1 1/4" dia.	1.30
4624	1 1/2" dia.	1.30
4625	1 3/4" dia.	1.50

HOLLOW CHISELS AND BITS

Short Shanks

Part No.	Description	Price Each
4626	1/4" sq. x 2 3/4" long	\$4.75
4627	3/8" sq. x 2 3/4" long	4.75
4628	1/2" sq. x 2 3/4" long	4.75
4629	3/4" sq. x 4" long	5.75
4630	1/2" sq. x 4" long	5.75

ALL PRICES F. O. B. FACTORY

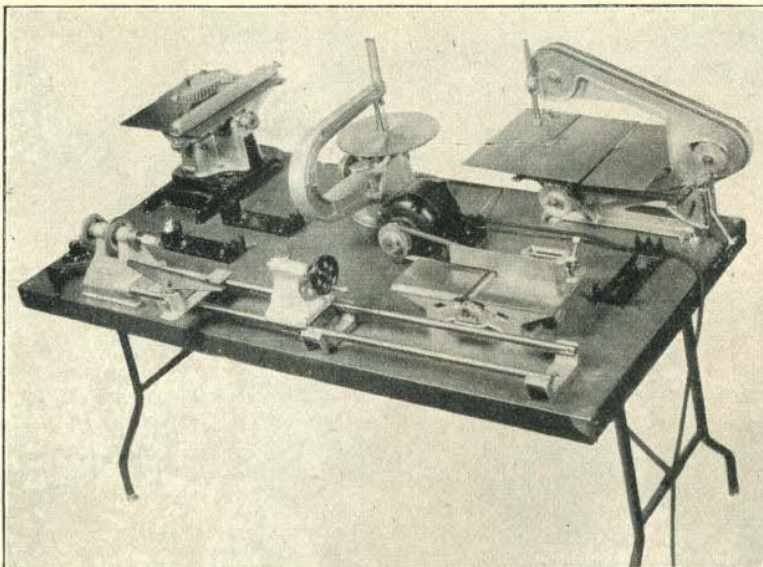
Please use part numbers and send remittances with order including enough for carriage charges.

This will help us to give you immediate and correct service—thank you.

J. D. WALLACE & CO.

134 S. CALIFORNIA AVE.

CHICAGO ILLINOIS



LOOK FOR THIS WORKACE DISPLAY TABLE

You will find it in the stores of merchants who know and sell practical tools. They use this display for it is the most satisfactory method of showing the values Wallace offers and to demonstrate the many advantages of Wallace Cradle Drive.

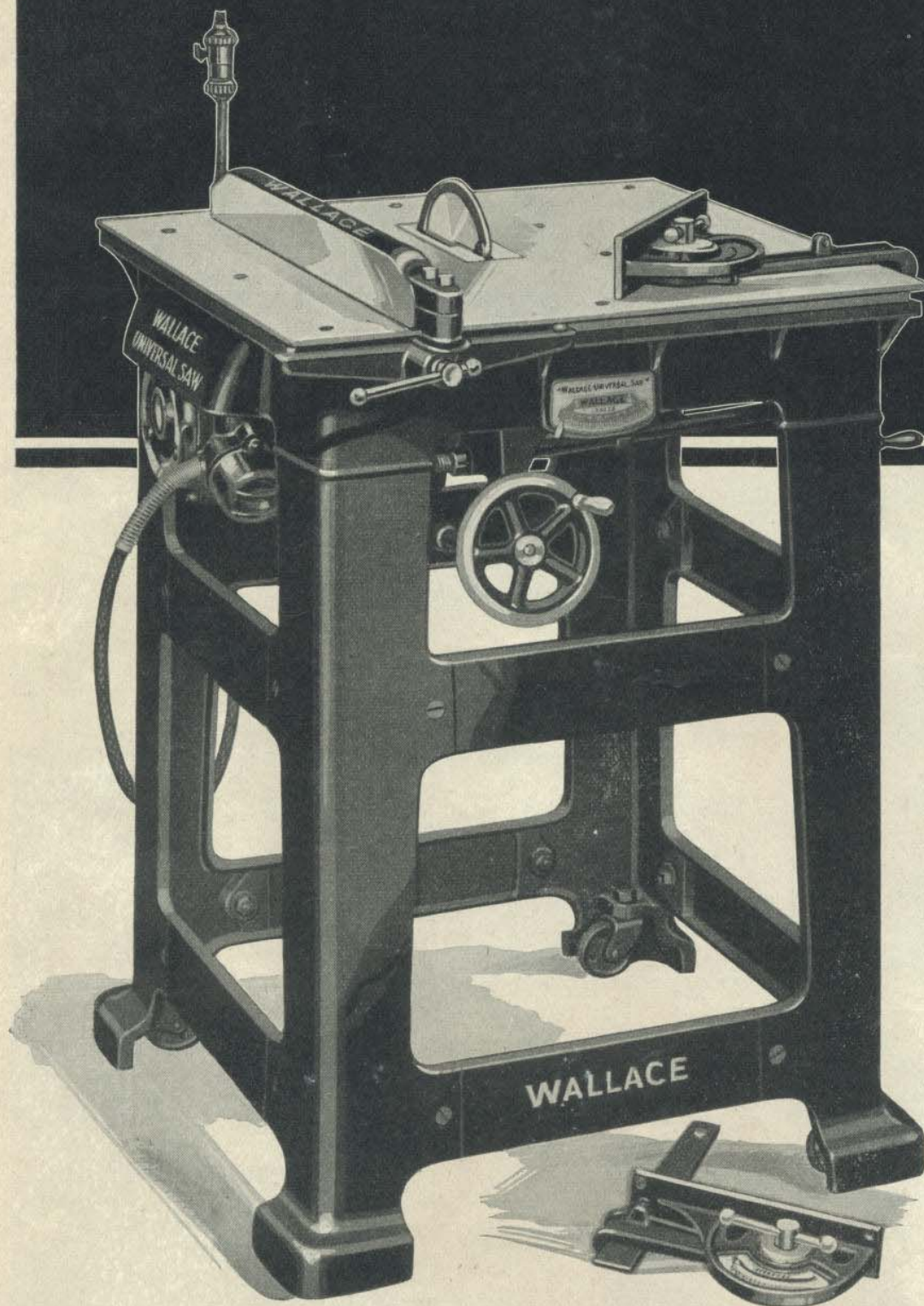
One motor serves all these machines. Set this motor in the bracket of the machine you wish to use and you are ready with machine power. It is not necessary, however, to group all machines on one table in your shop.

Wallace Cradle Drive makes each machine an independent unit.

YOU LIVE ONLY ONCE

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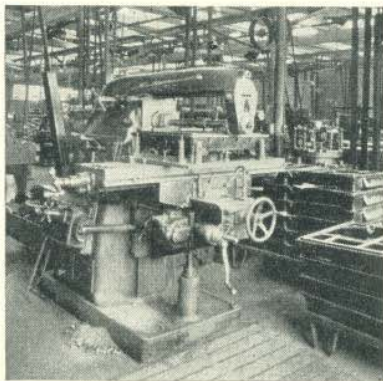
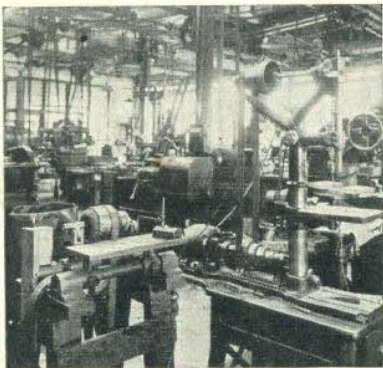
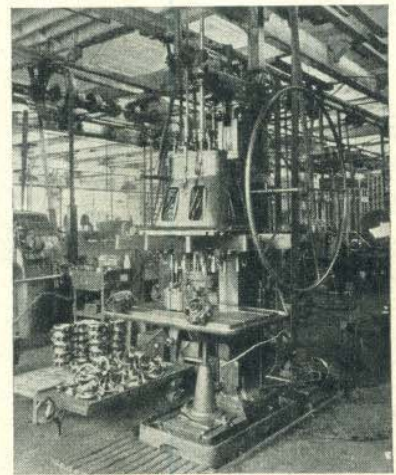
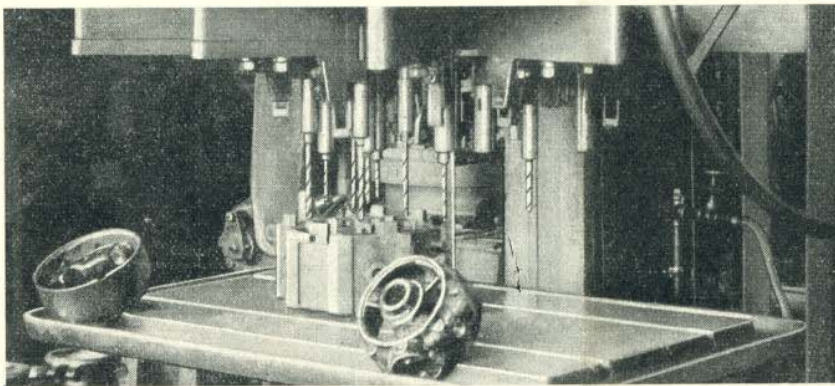
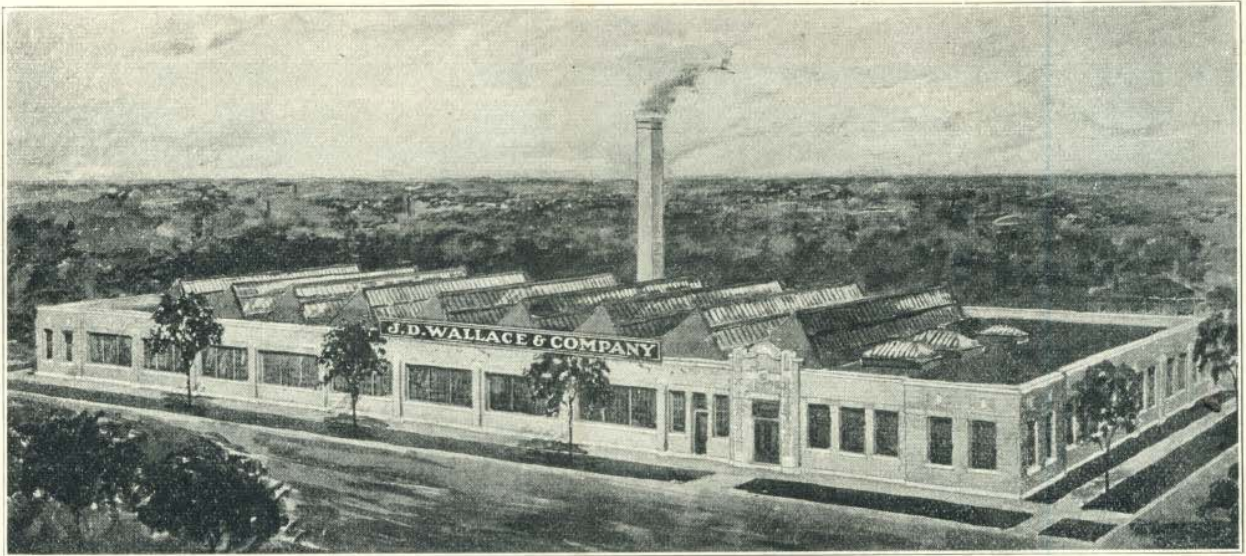
USE PRACTICAL TOOLS



60,000
WALLACE
Machines
used by
Industry and
many Home
Shops

This proven
experience
backs
WORKACE
MACHINES

WORKACE MACHINES ARE PRACTICAL MACHINES



WORKACE MACHINES

are made in the modern day-light factory shown above. Newest type production machines assures accuracy and precision. Vast production schedules enable us to obtain the utmost economy from this modern equipment—that is the reason you get the most for every dollar when you buy

Workace Machines

CATALOG No. 410



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**134-158 S. California Ave.,
CHICAGO, ILL.**
OFFICES IN ALL
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